

A428 Black Cat to Caxton Gibbet improvements

TR010044

Volume 2

2.10 Engineering Section Drawings – Part 5

Planning Act 2008

Regulations 5(2)(o), 5(2)(p), 6(2)(a) and 6(2)(b)

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

26 February 2021

Infrastructure Planning

Planning Act 2008

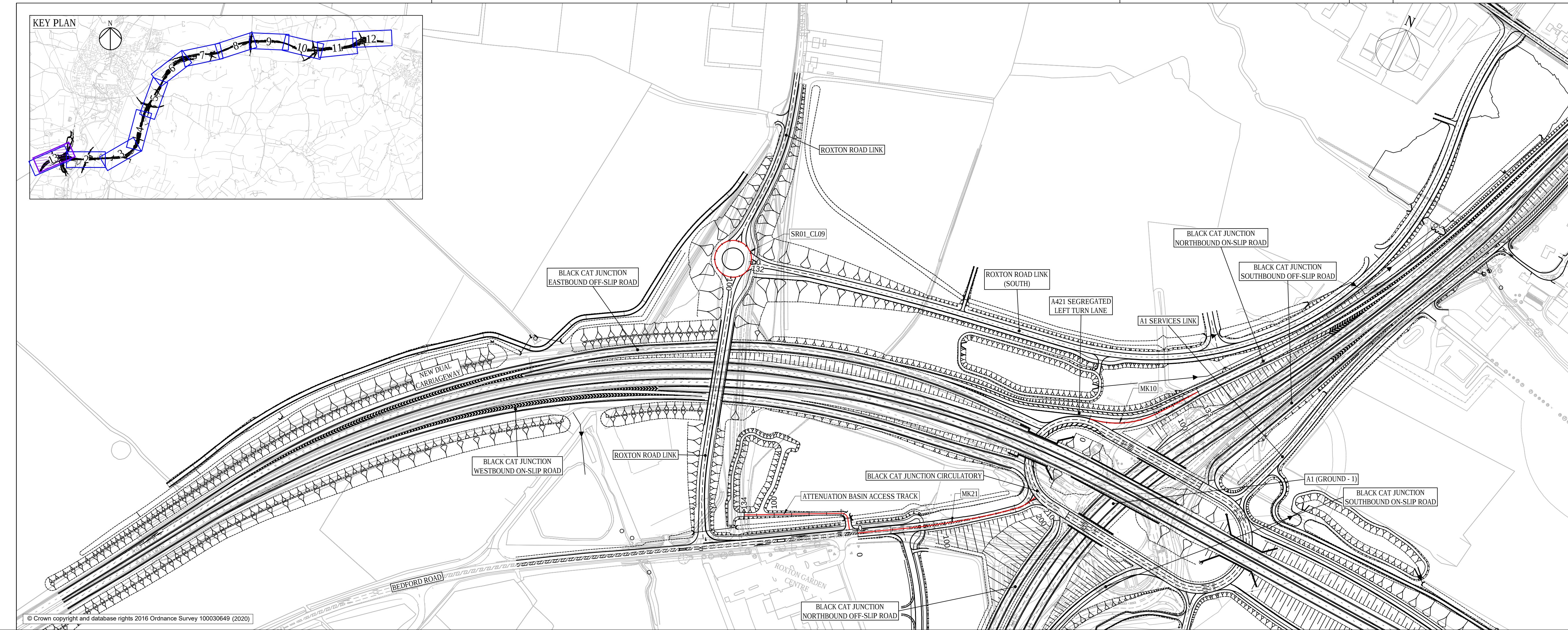
**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

**A428 Black Cat to Caxton Gibbet
improvements**
Development Consent Order 202[]

Engineering Section Drawings – Part 5

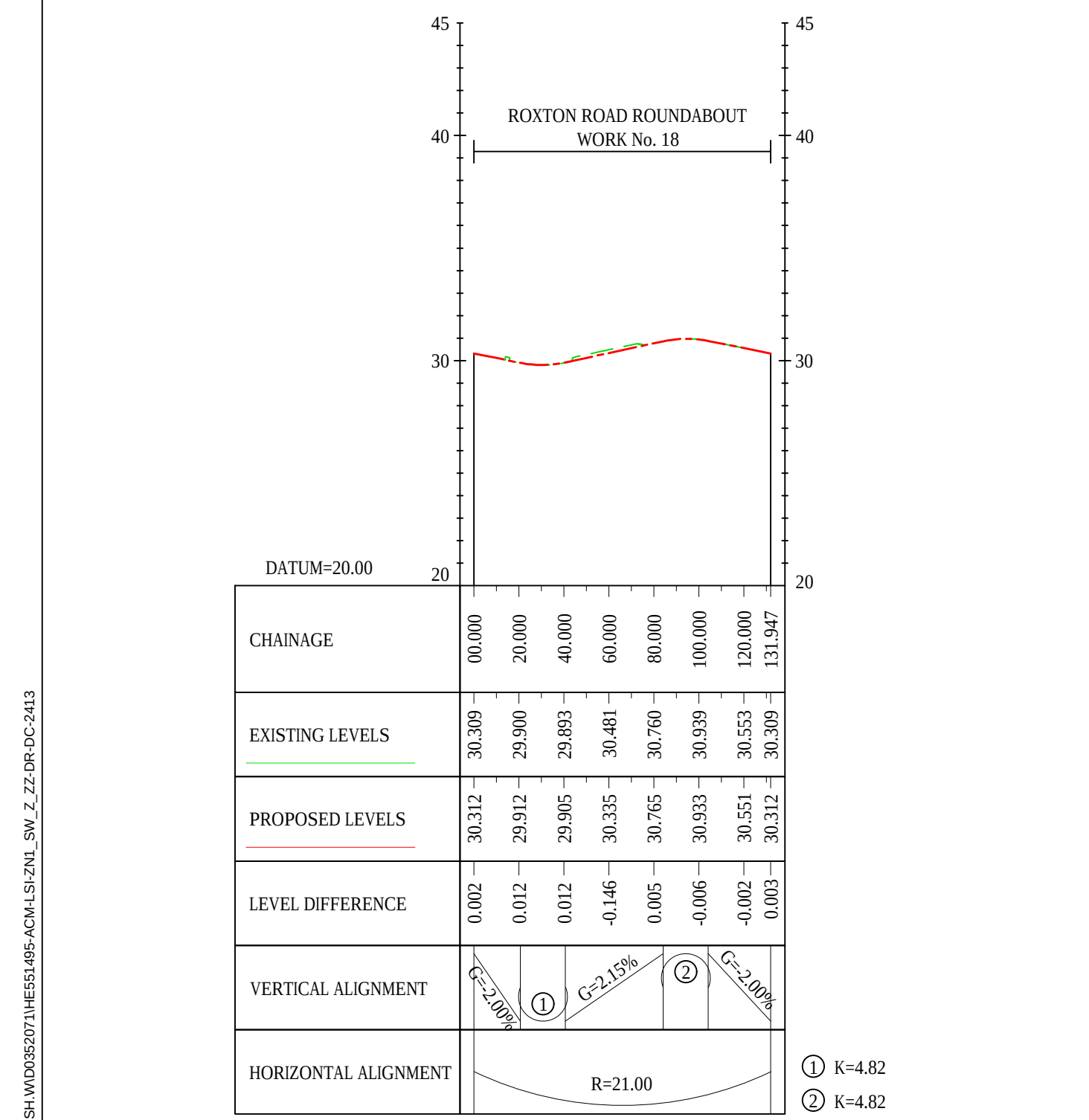
Regulation Reference:	Regulation 5(2)(o), 5(2)(p), 6(2)(a) and 6(2)(b)
Planning Inspectorate Scheme Reference	TR010044
Application Document Reference	TR010044/APP/2.10
Author	A428 Black Cat to Caxton Gibbet improvements Project Team, Highways England

Version	Date	Status of Version
Rev 1	26 February 2021	DCO Application



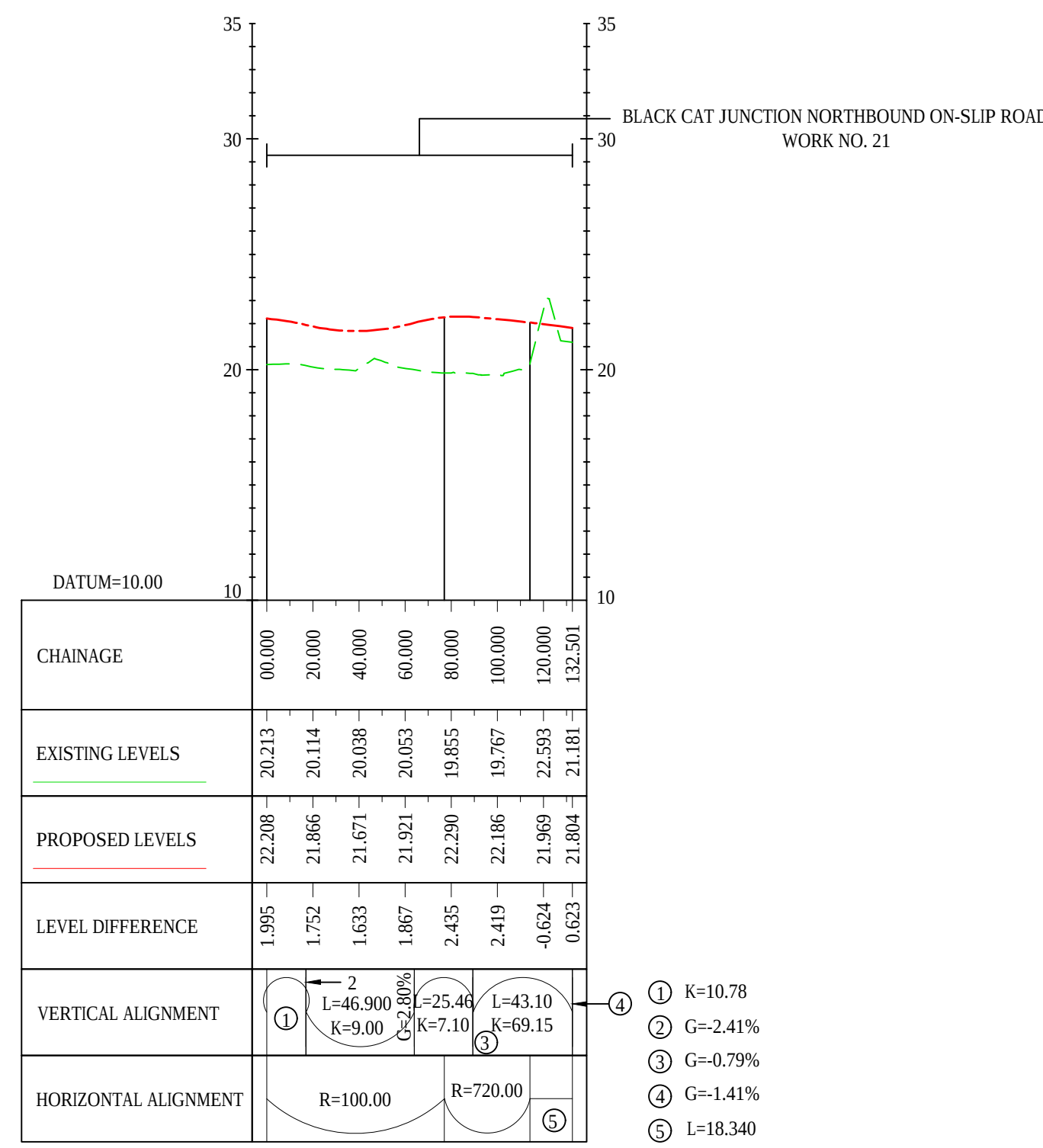
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



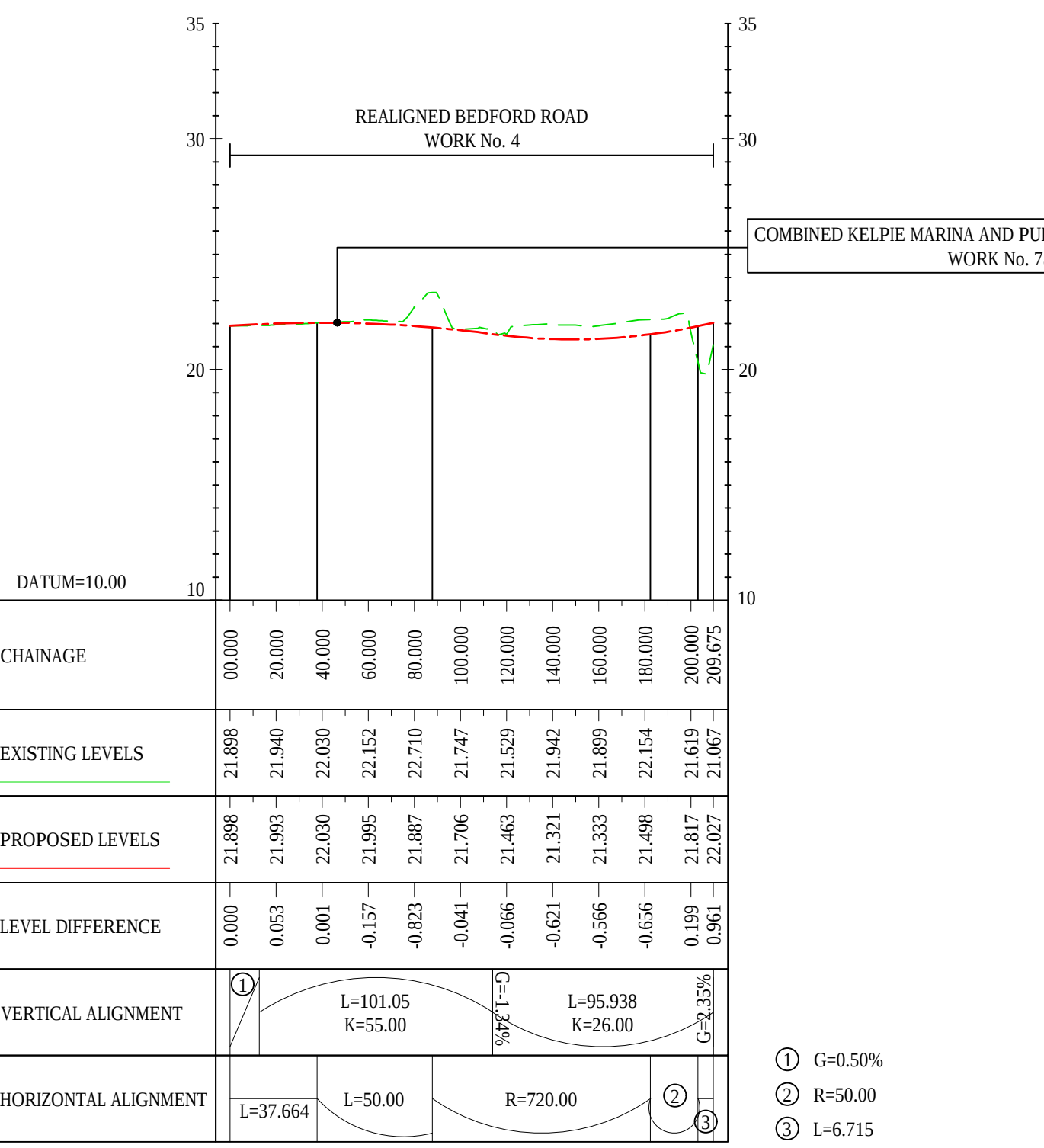
ROXTON ROAD ROUNDABOUT
ALIGNMENT STRING NAME : SR01_CL09

LONGSECTION
SCALE: H 1:2500,V 1:250



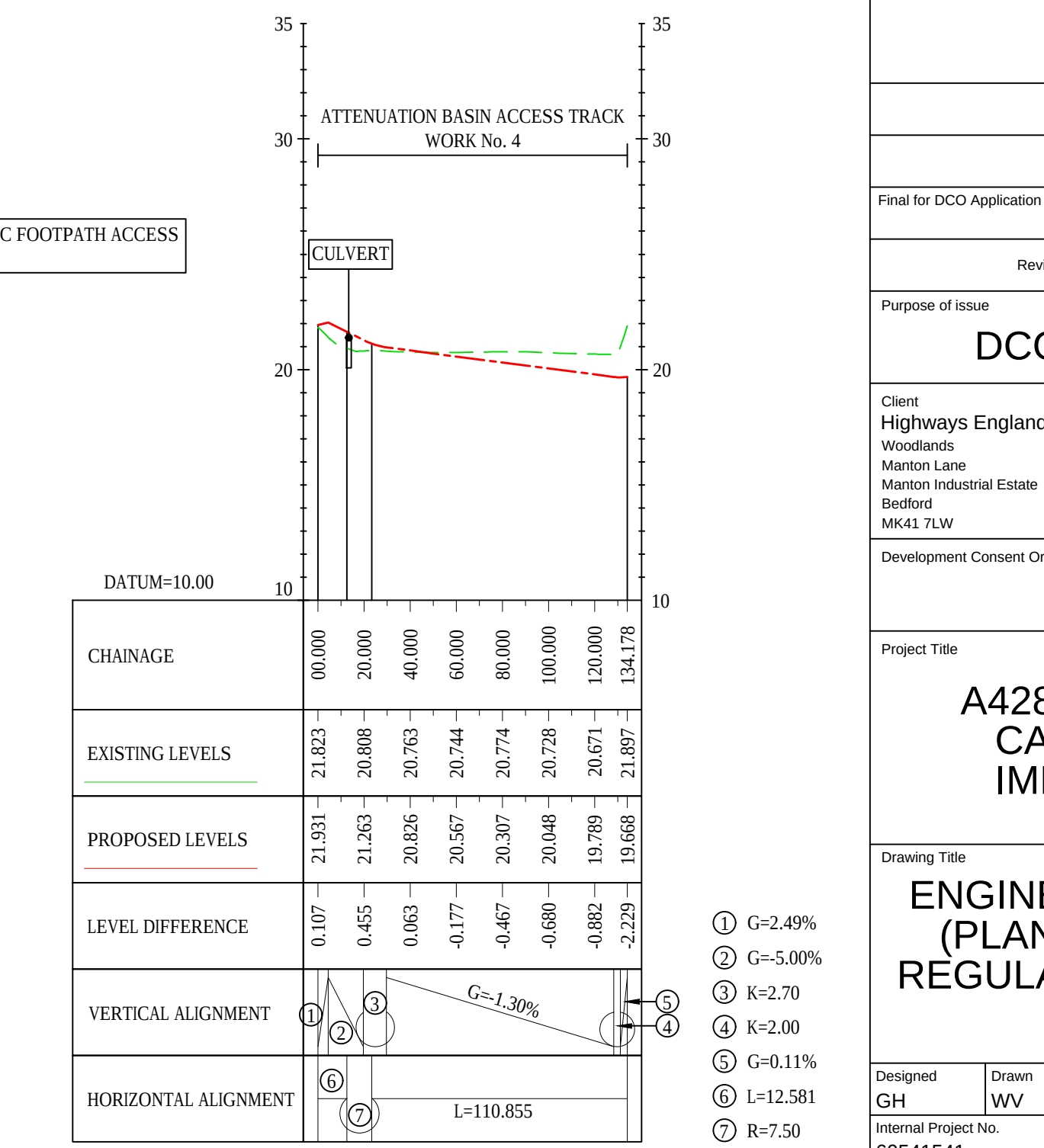
BLACK CAT JUNCTION NORTHBOUND ON-SLIP ROAD
ALIGNMENT STRING NAME : MK10

LONGSECTION
SCALE: H 1:2500,V 1:250



REALIGNED BEDFORD ROAD
ALIGNMENT STRING NAME : MK21

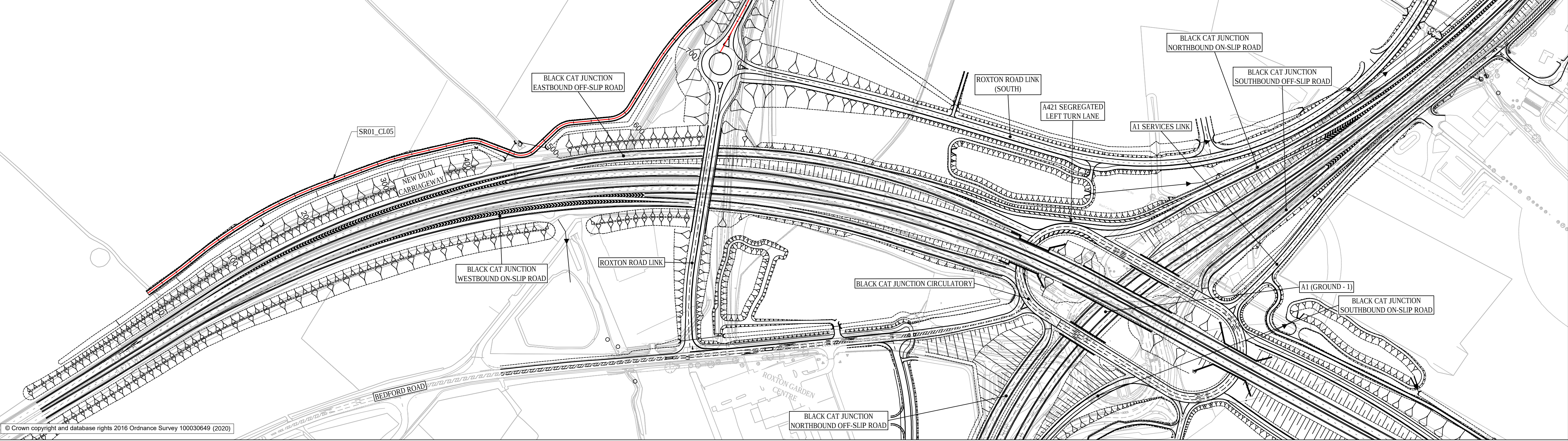
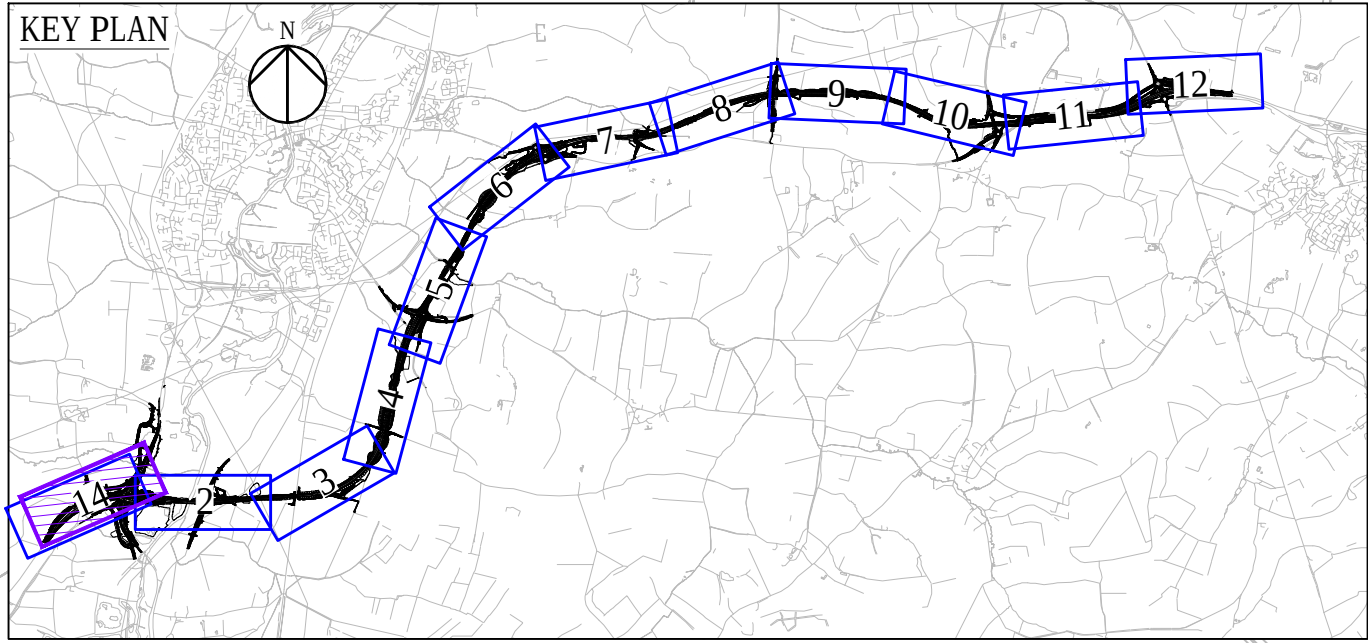
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SCALE: H 1:2500,V 1:250



ATTENUATION BASIN ACCESS TRACK

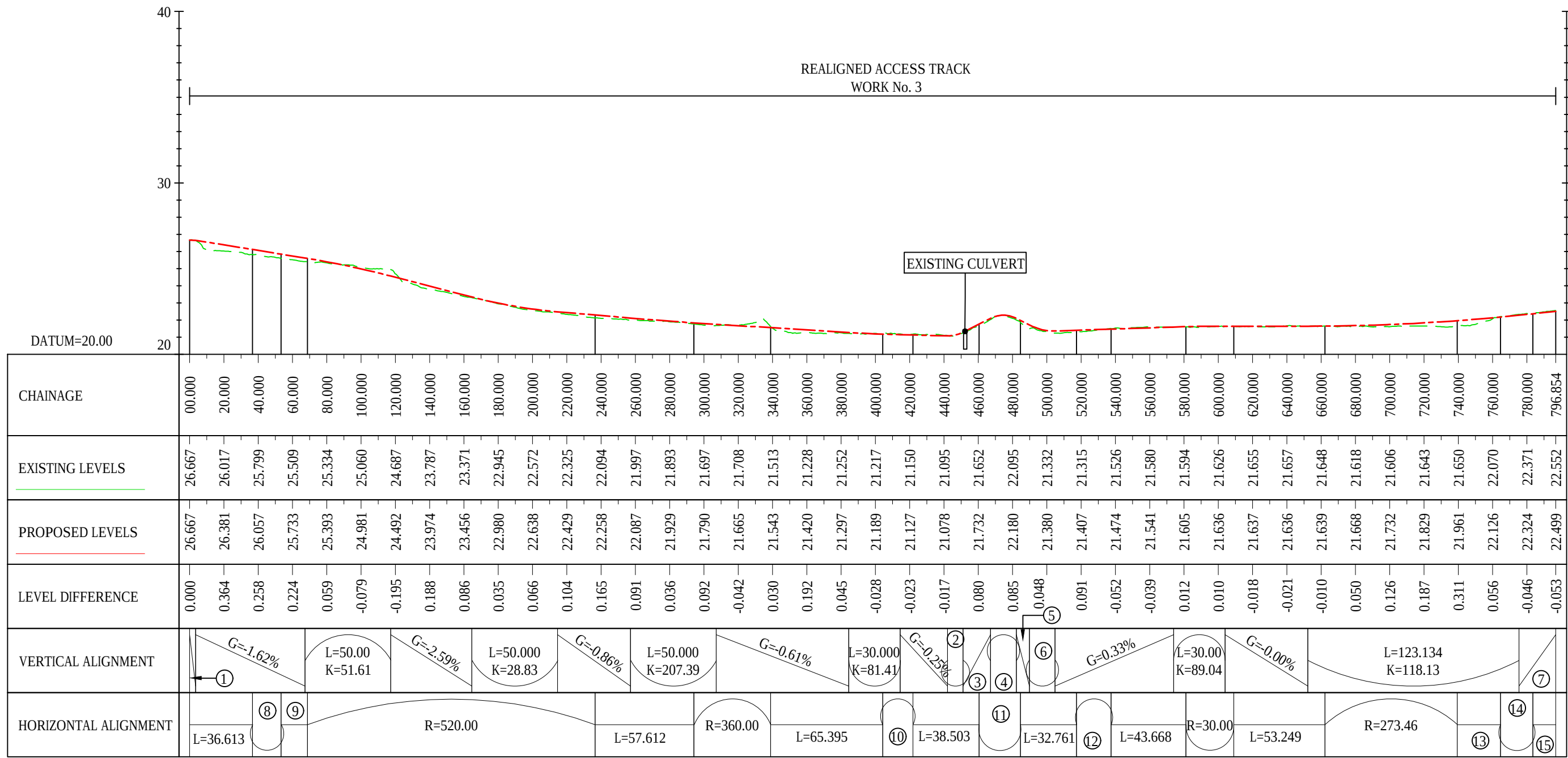
LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW					
Development Consent Order Number TR010044					
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 13					
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21	
Internal Project No. 60541541		Suitability D7			
Scale @ A1 1:2500		Zone ZN1			
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.					
Drawing Number HE551495		I Originator -ACM		I Volume -LSI	
Location ZN1_SW_Z_ZZ		I Type -DR		I Number -DC-2413	
				P04	



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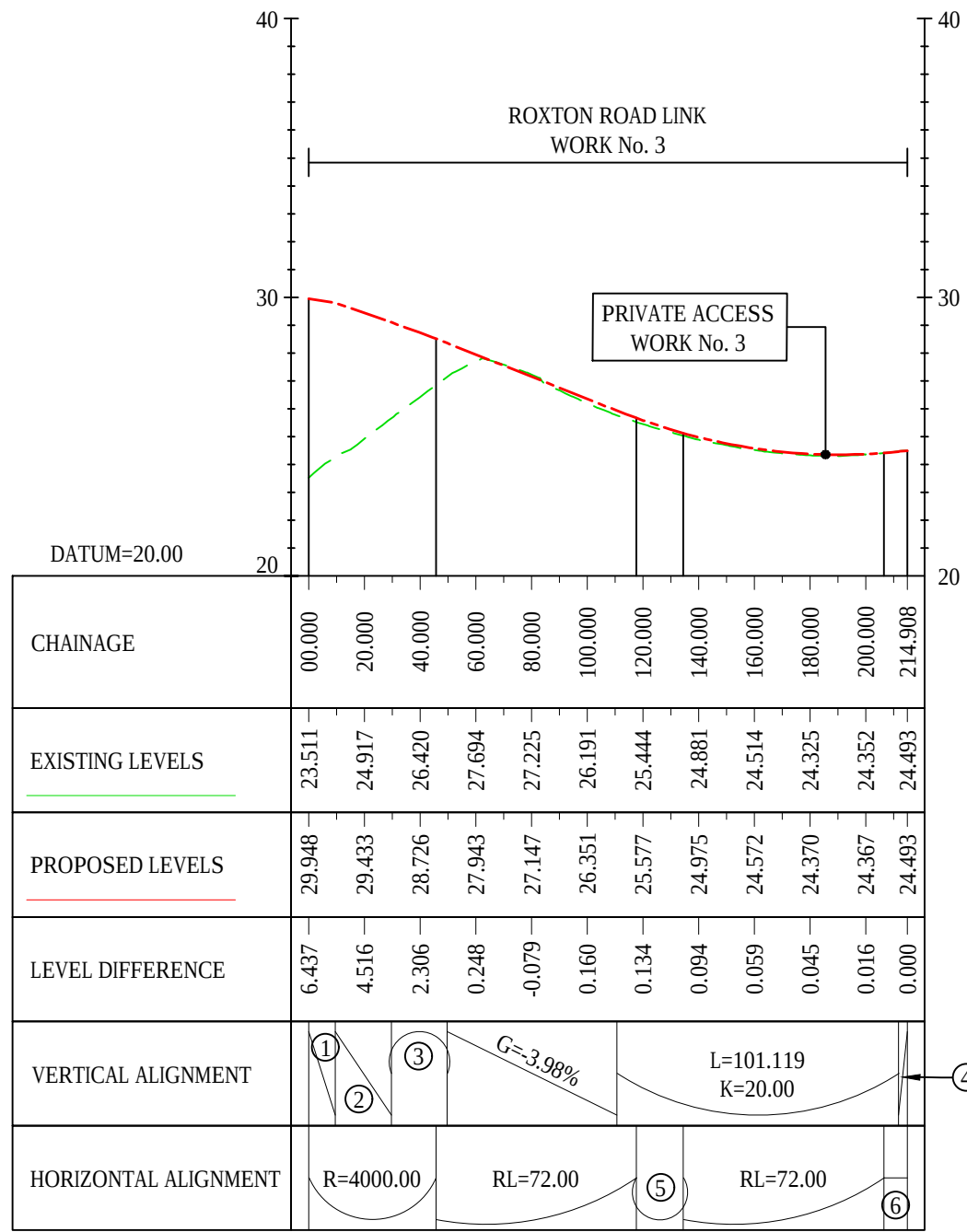
- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



REALIGNED ACCESS TRACK
ALIGNMENT STRING NAME : SR01_CL05

LONGSECTION
SCALE: H 1:2500,V 1:250

- ① G=-0.50%
- ② K=1.72
- ③ G=5.00%
- ④ G=1.50%
- ⑤ G=-5.00%
- ⑥ K=2.81
- ⑦ G=1.04%
- ⑧ R=360.00
- ⑨ L=15.336
- ⑩ R=30.00
- ⑪ R=22.25
- ⑫ R=30.00
- ⑬ L=25.243
- ⑭ R=83.97
- ⑮ L=13.339

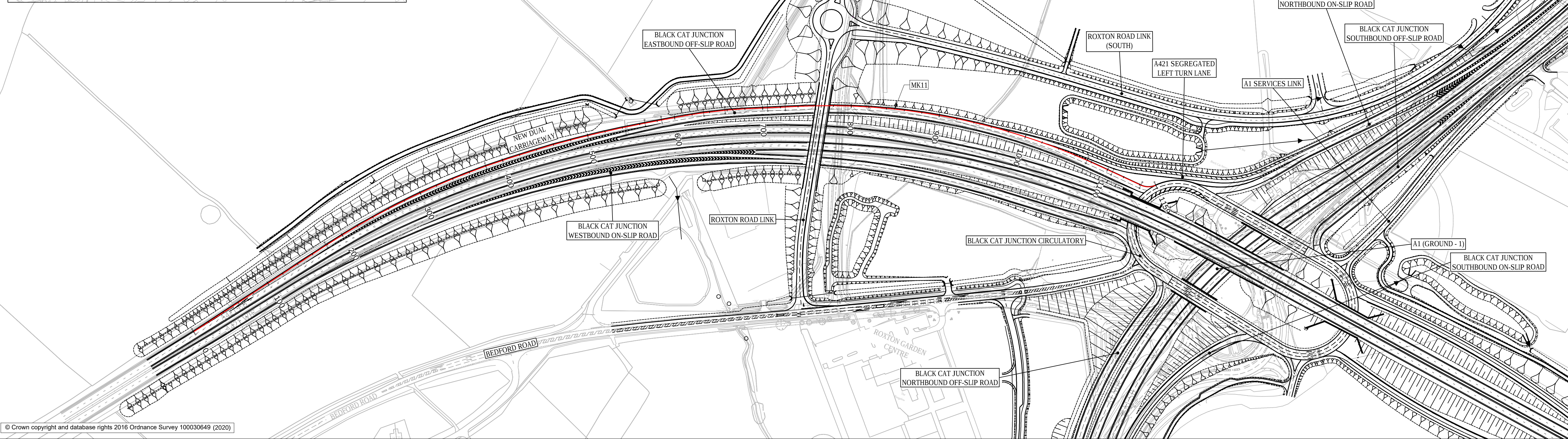


ROXTON ROAD LINK
ALIGNMENT STRING NAME : SR01_CL03

LONGSECTION
SCALE: H 1:2500,V 1:250

- ① G=-1.60%
- ② G=-3.47%
- ③ K=39.20
- ④ G=1.08%
- ⑤ R=255.00
- ⑥ L=8.402

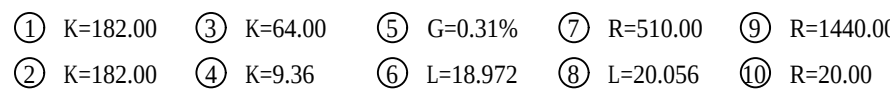
Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW					
Development Consent Order Number TR010044					
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 14					
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21	
Internal Project No. 60541541		Suitability D7			
Scale @ A1 1:2500		Zone ZN1			
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Location ZN1_SW_Z_ZZ		1 Type -DR		1 Number -DC-2414	



NOTES

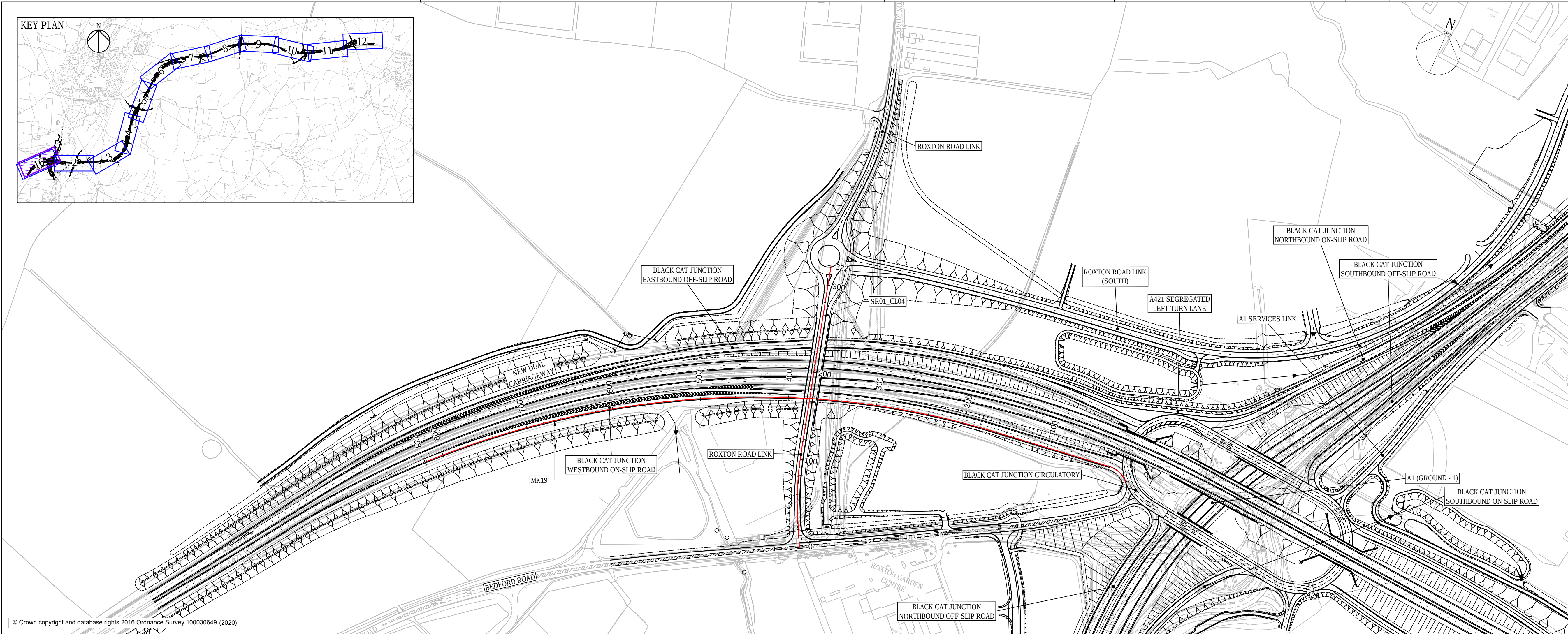
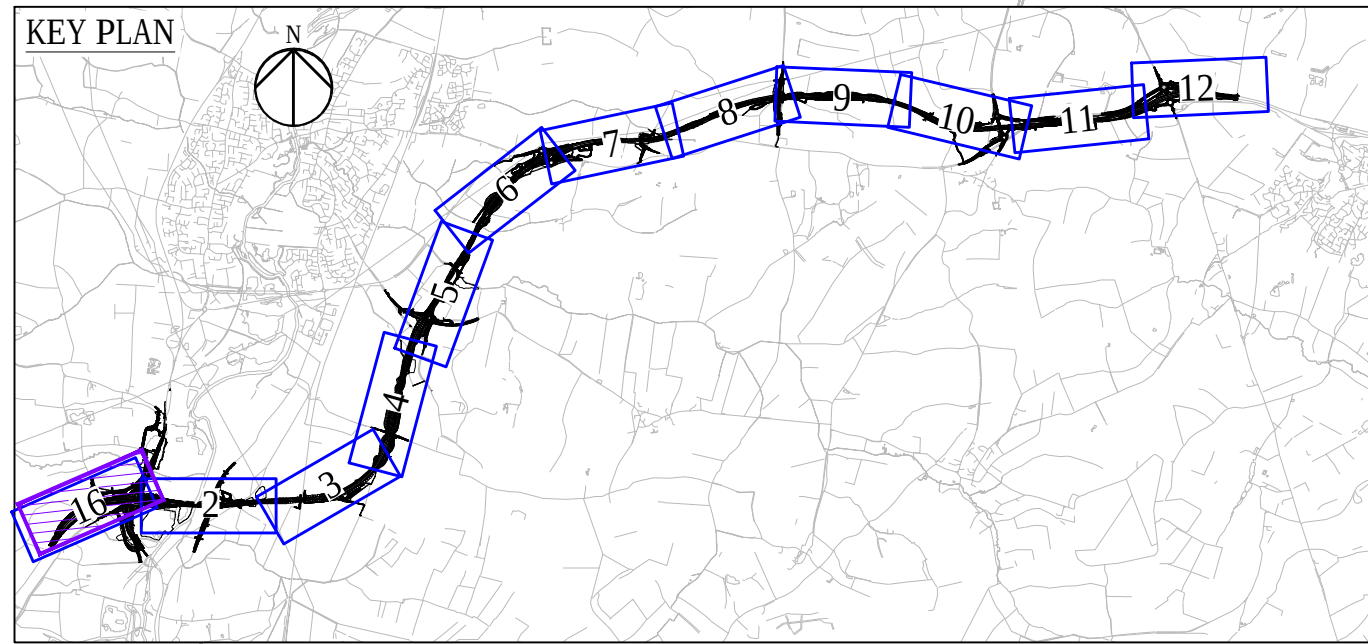
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 CENTRELINE OF NEW ROAD
 FINISHED ROAD LEVEL AT CENTRELLINE OF NEW ROAD
 TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 BRIDGE
 CULVERT



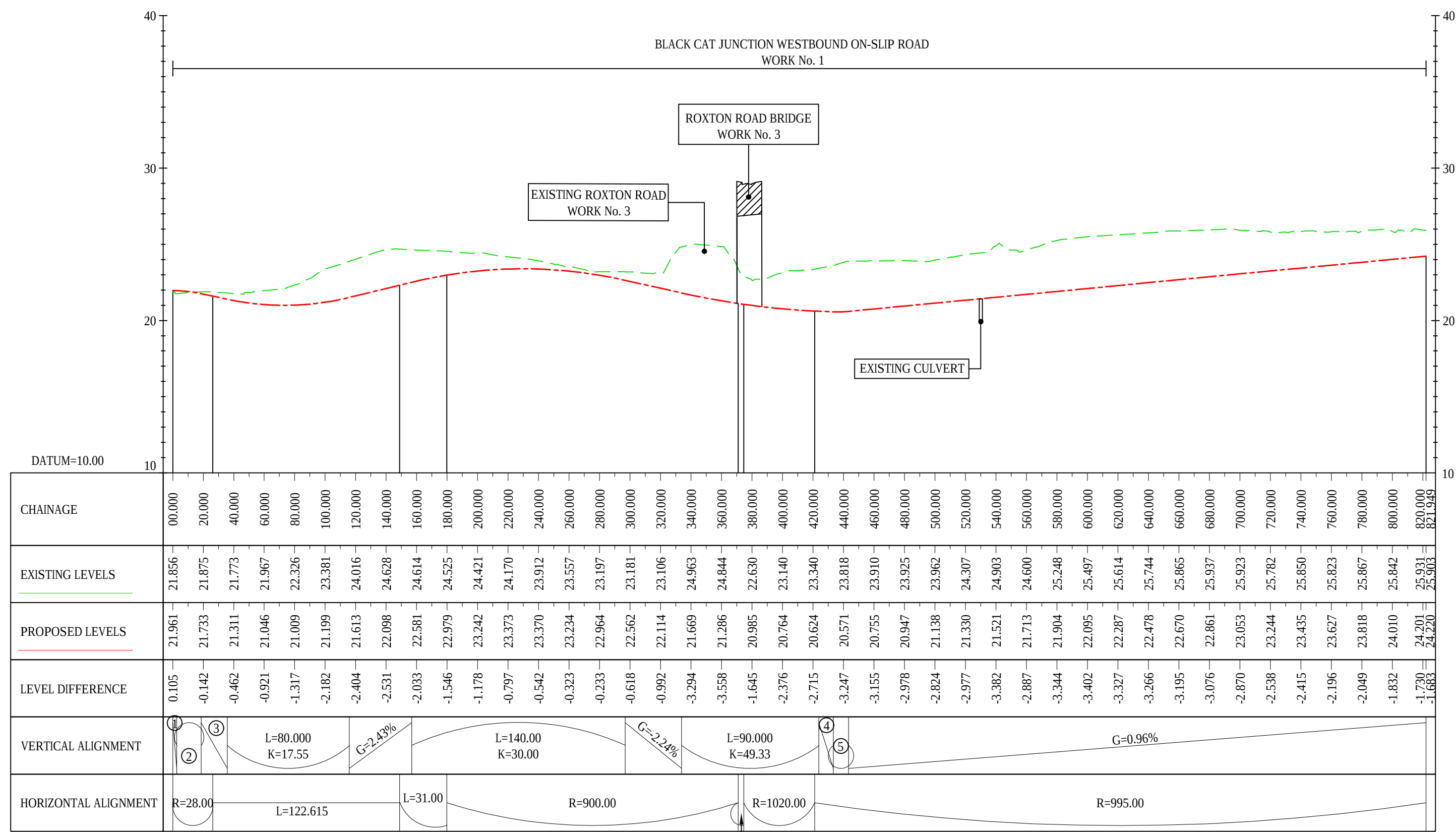
LONGSECTION
SCALE: H 1:2500,V 1:250

Drawing Number Highways England PIN I Originator I Volume HE551495 -ACM -LSI - ZN1_SW_Z_ZZ -DR-DC-2415 Location I Type I Role I Number	Rev P04
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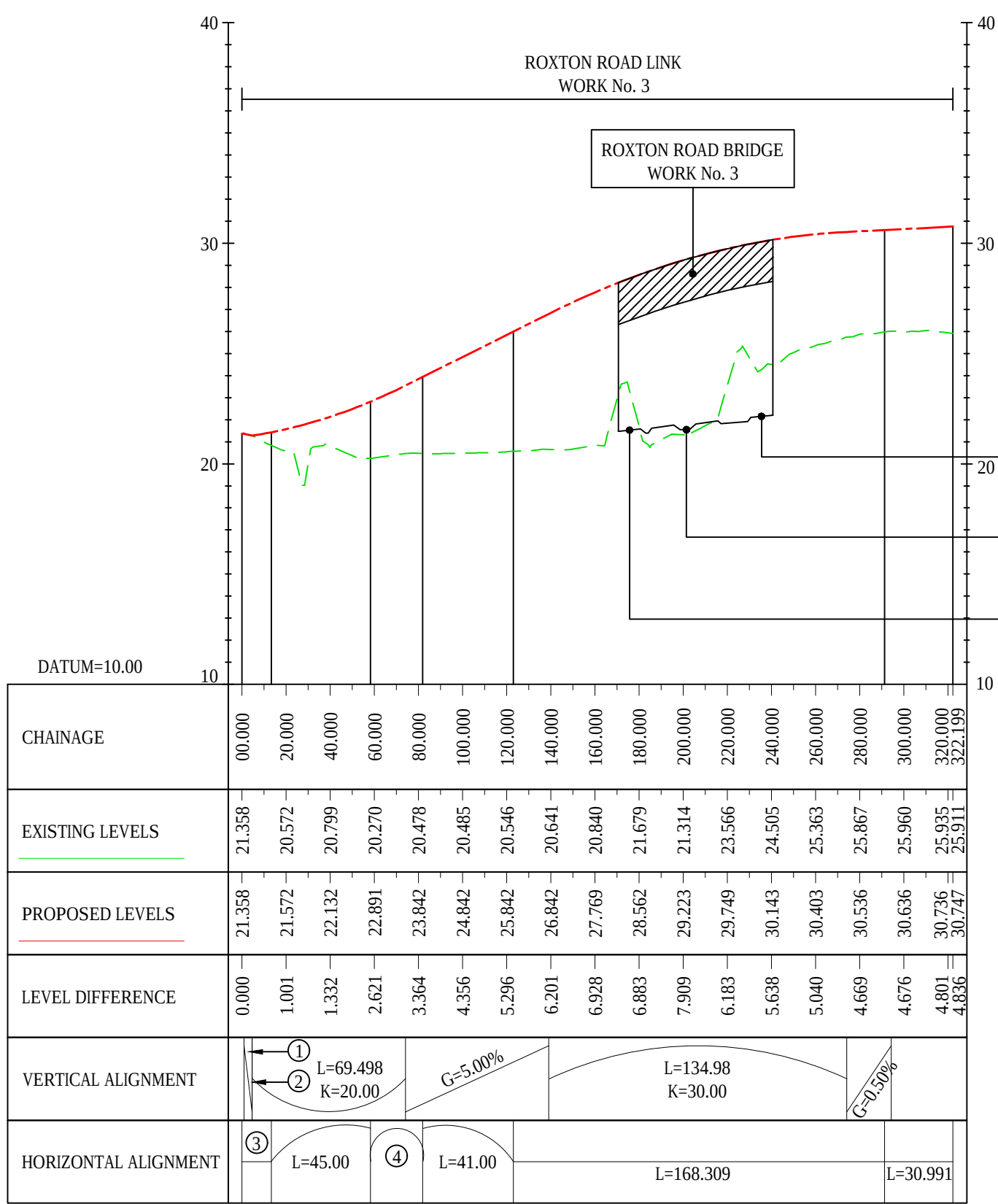
- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



BLACK CAT JUNCTION WESTBOUND ON-SLIP ROAD
ALIGNMENT STRING NAME : MK19

- ① G=-0.28% ③ G=-2.13% ⑤ K=7.25
② K=8.63 ④ G=-0.42% ⑥ L=3.65

LONGSECTION
SCALE: H 1:2500,V 1:250

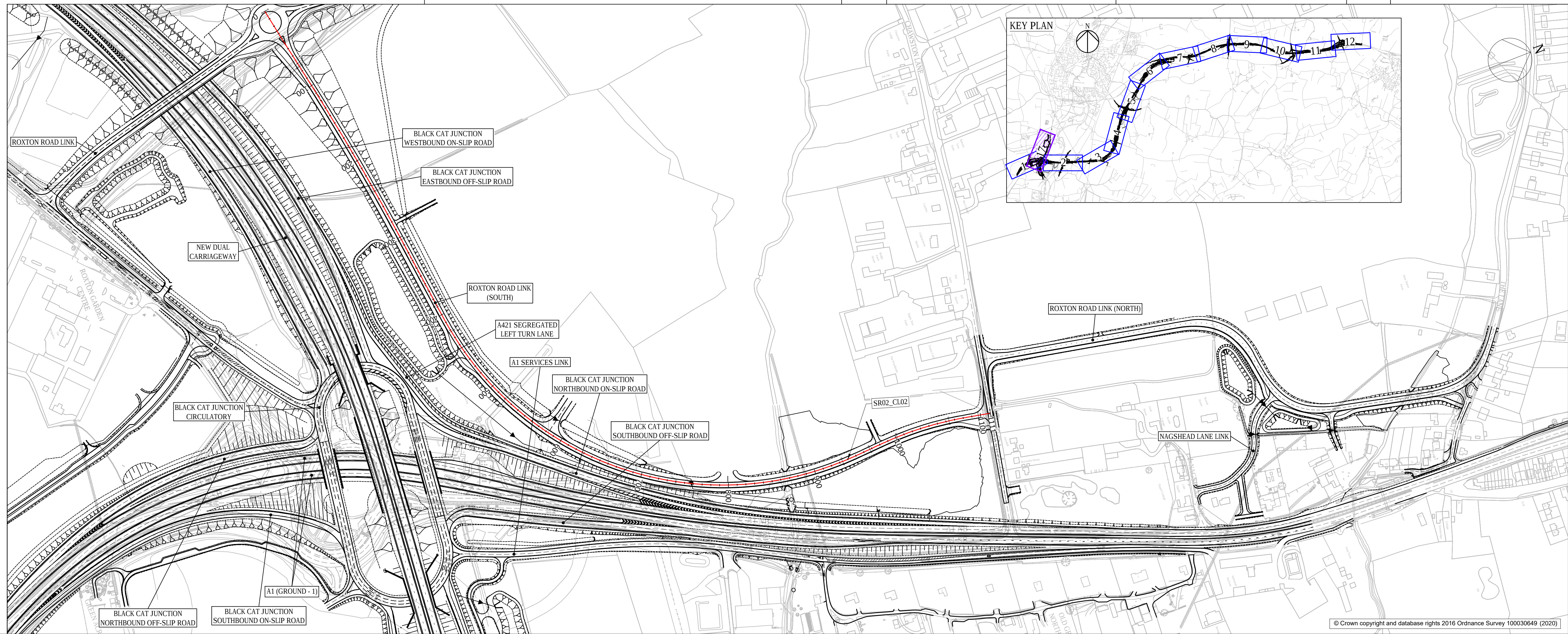


ROXTON ROAD LINK
ALIGNMENT STRING NAME : SR01_CL04

- ① G=1.53% ③ L=13.232
② G=-2.38% ④ R=300.00

LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW					
Development Consent Order Number TR010044					
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 16					
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21	
Internal Project No. 60541541			Suitability D7		
Scale @ A1 1:2500			Zone ZN1		
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Drawing Number HE551495 -ACM		I Originator -LSI		I Volume -	
Location ZN1_SW_Z_ZZ		I Type -DR		I Number -DC-2416	
				P04	

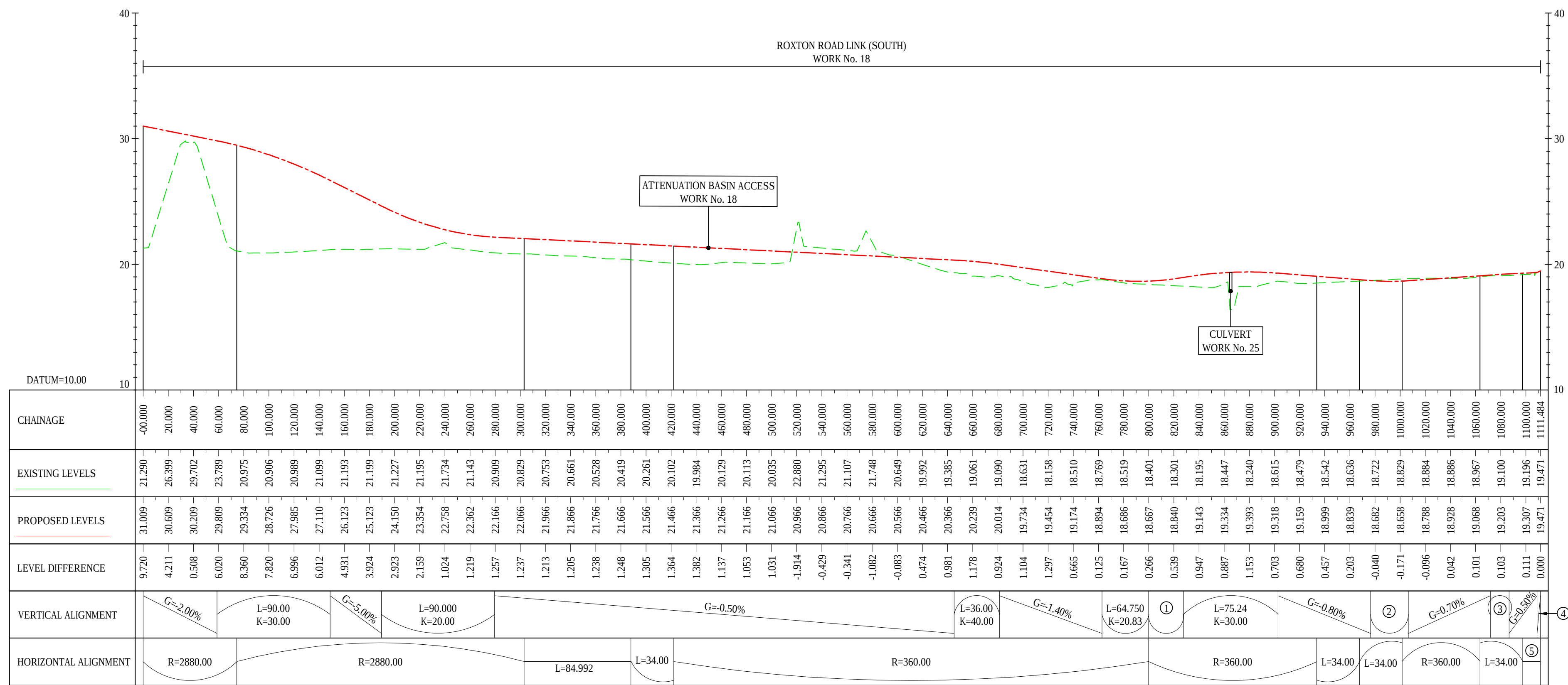


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KEY

- CENTRELINE OF NEW ROAD
 FINISHED ROAD LEVEL AT CENTRELLINE OF NEW ROAD
 TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 BRIDGE

 CULVERT



ROXTON ROAD LINK (SOUTH)
ALIGNMENT STRING NAME : SR02_CL02

① K=20.83 ③ K=76.24 ⑤ L=14.047
② K=20.00 ④ G=4.45%

LONGSECTION
SCALE: H 1:2500,V 1:250

NOT

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KEY

- CENTRELINE OF NEW ROAD
 FINISHED ROAD LEVEL AT CENTRELLINE OF NEW ROAD
 TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 BRIDGE

 CULVERT

Final for DCO Application	WV TD	03/02/21	P04
Revision Details	By Check	Date	Suffix

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of

 **highways
england**

Development Consent Order Number

TR010044

Project Title

A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS

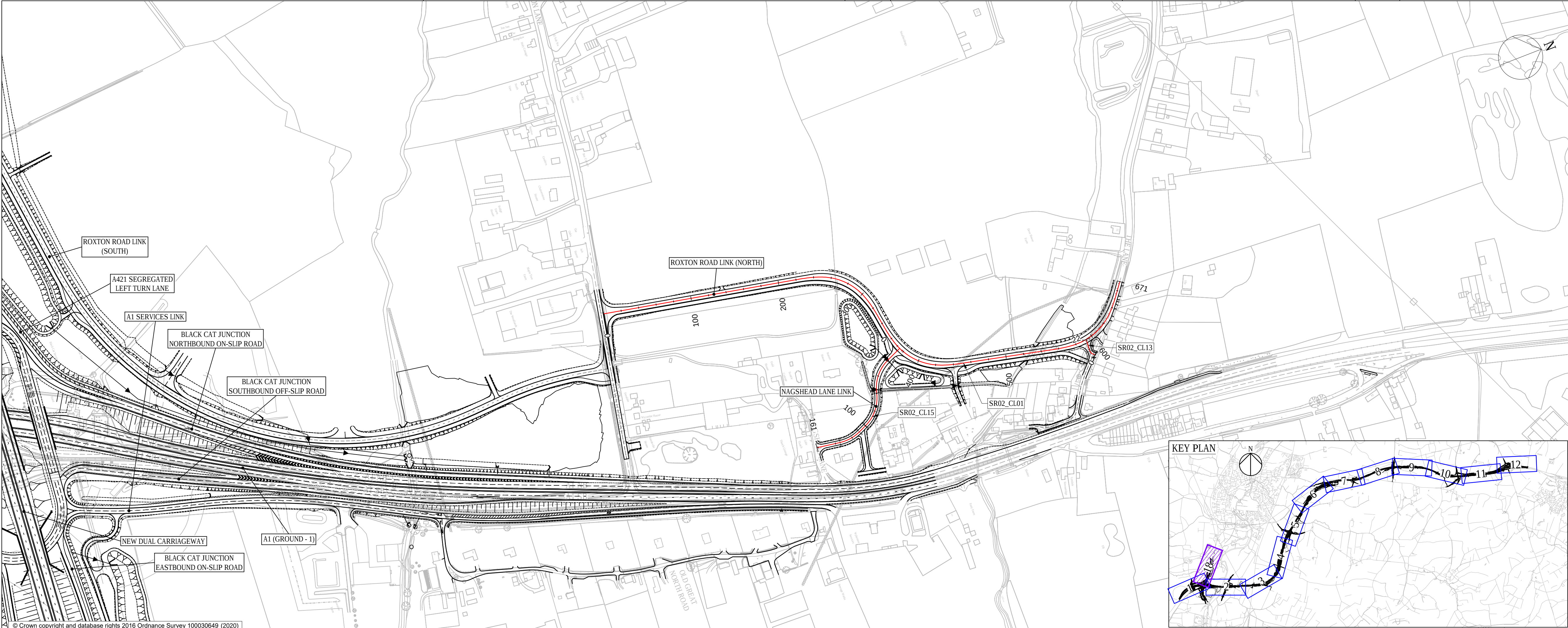
Drawing Title

ENGINEERING SECTIONS
(PLAN AND PROFILES)
REGULATION 5(2)(O) & 6(2)
SHEET 17

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 0541541			Suitability D7	
Scale @ A1 1:2500			Zone ZN1	

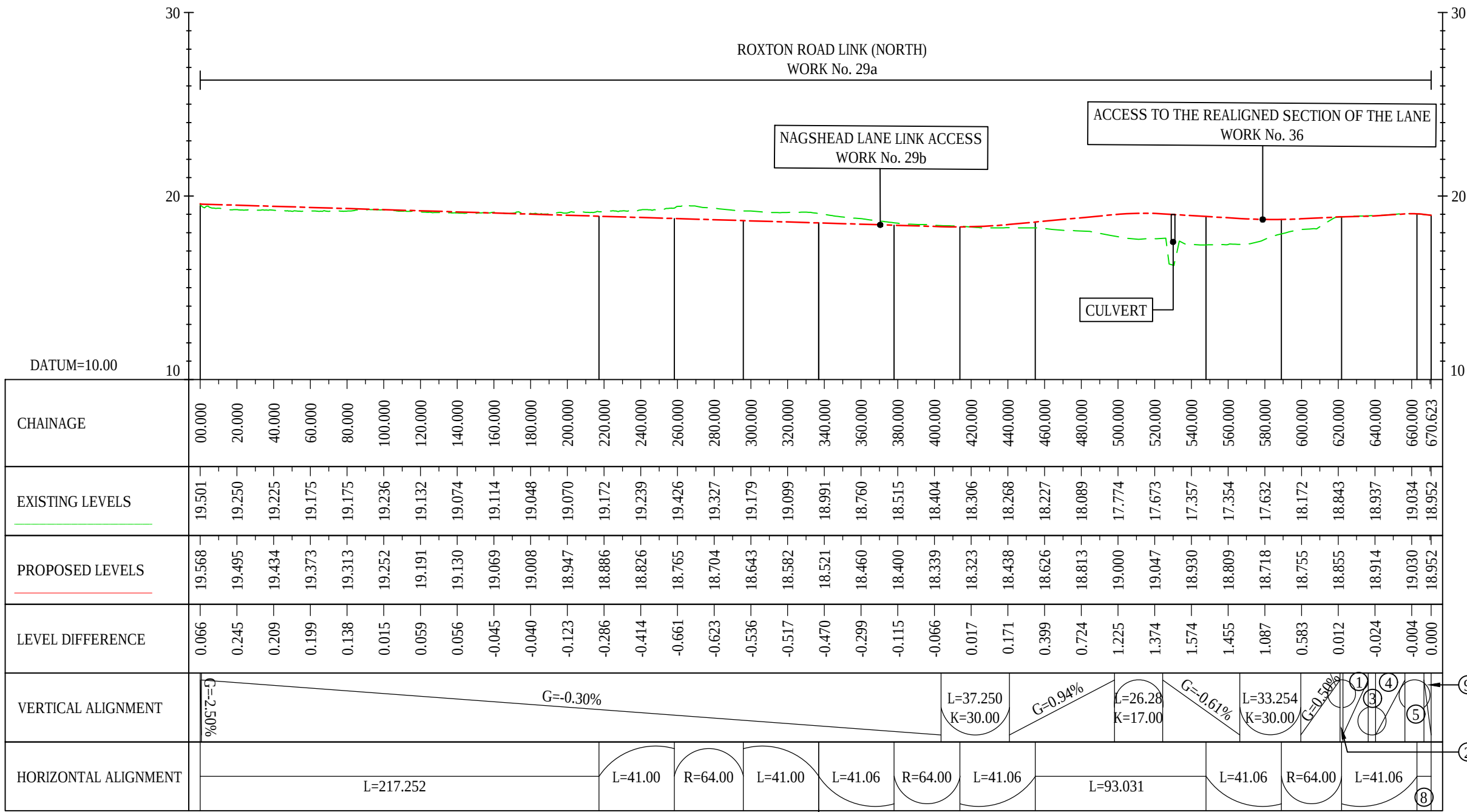
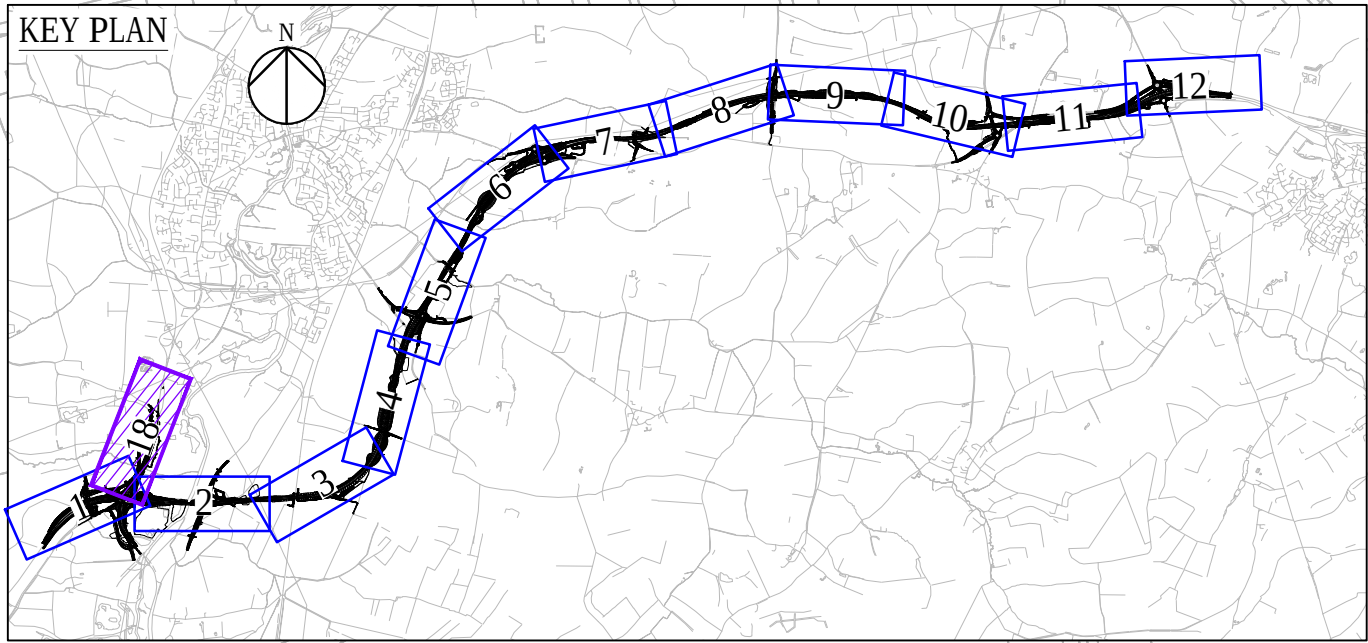
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Drawing Number			Rev	
-Highways England PIN			I Originator	I Volume
HE551495			-ACM	-LSI -
ZN1_SW_Z_ZZ			-DR-DC-2417	P04
Location			I Type	I Role I Number



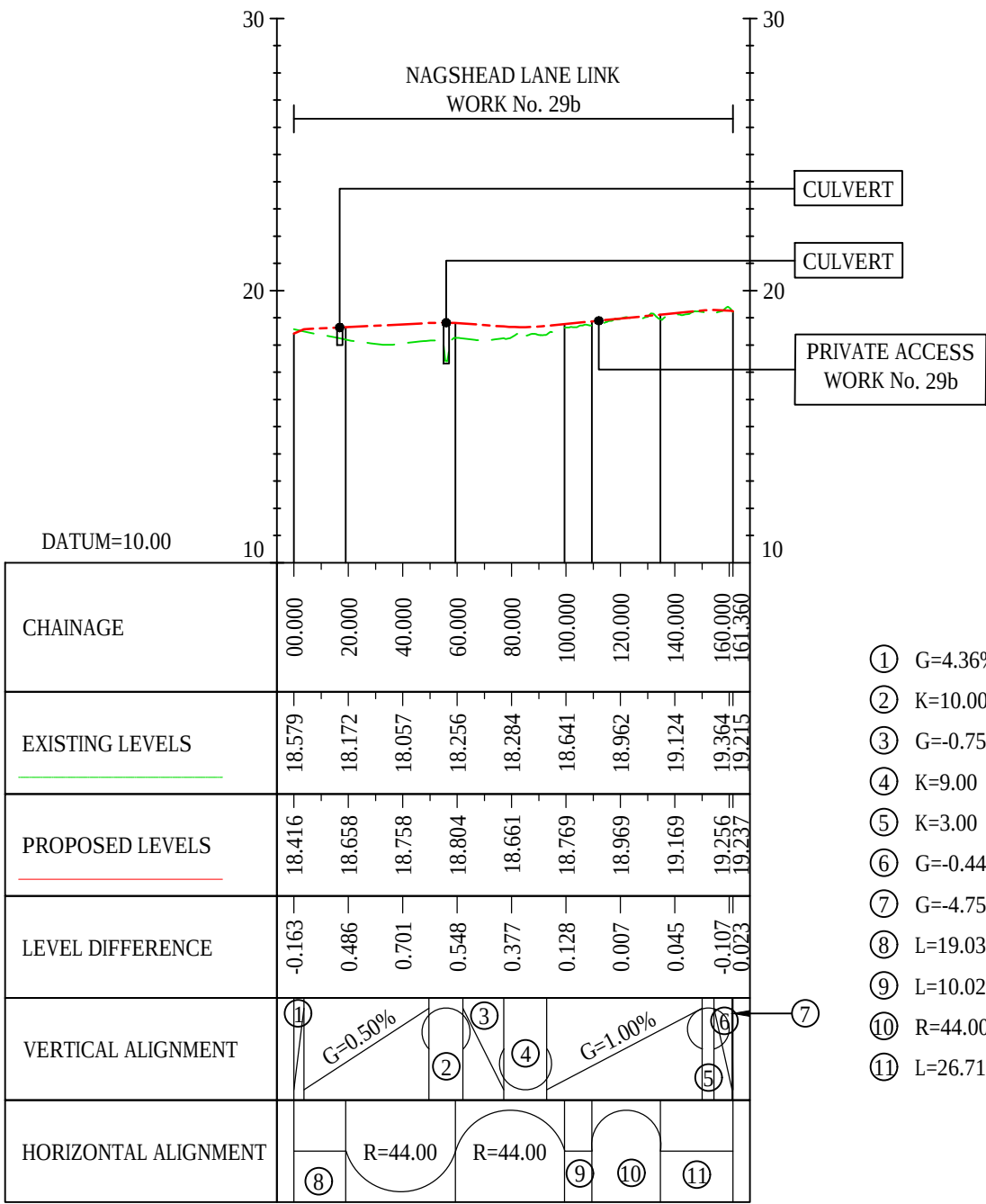
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- KEY
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 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



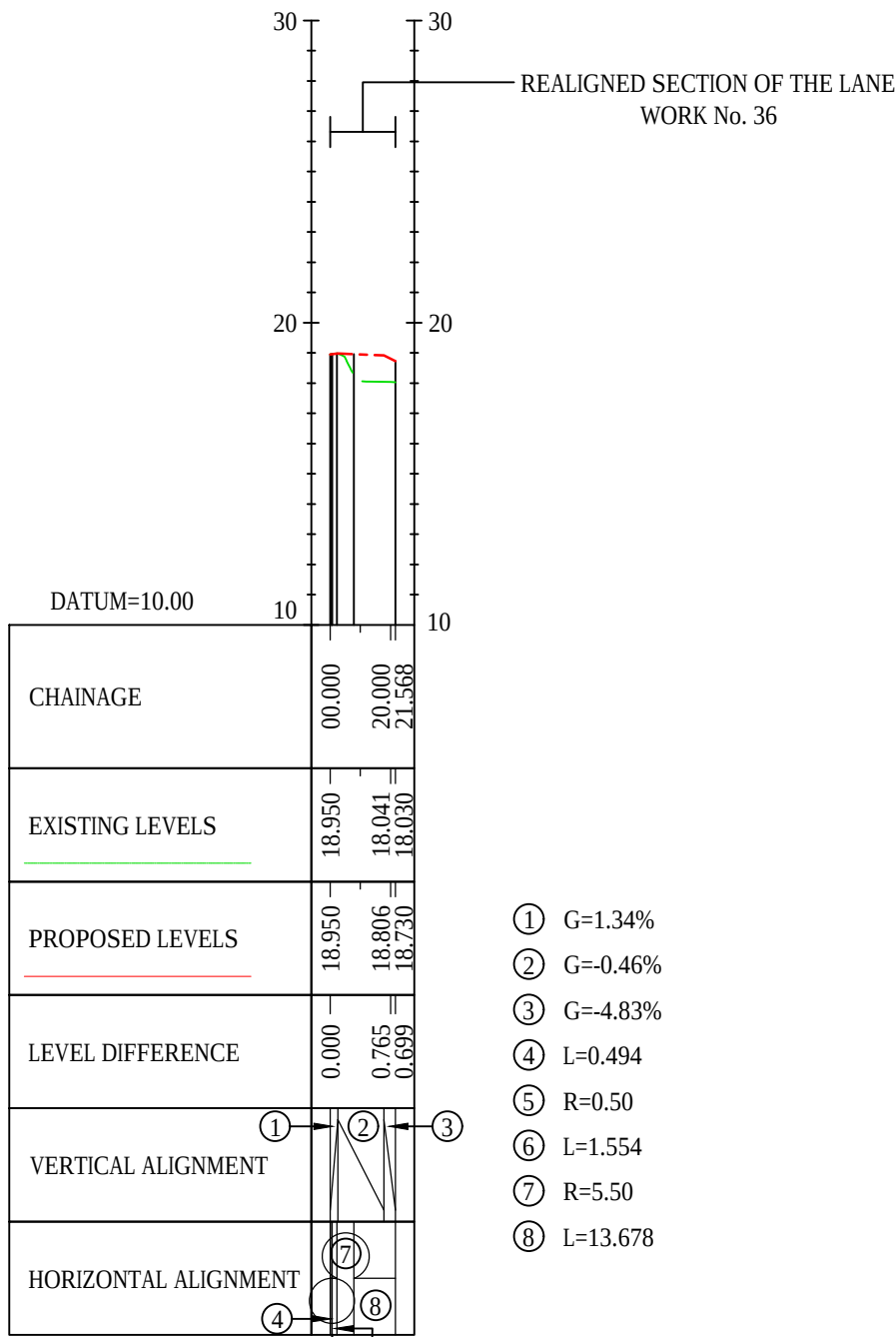
ROXTON ROAD LINK (NORTH)
ALIGNMENT STRING NAME : SR02_CL01

LONGSECTION
SCALE: H 1:2500, V 1:250



NAGSHEAD LANE LINK
ALIGNMENT STRING NAME : SR02_CL15

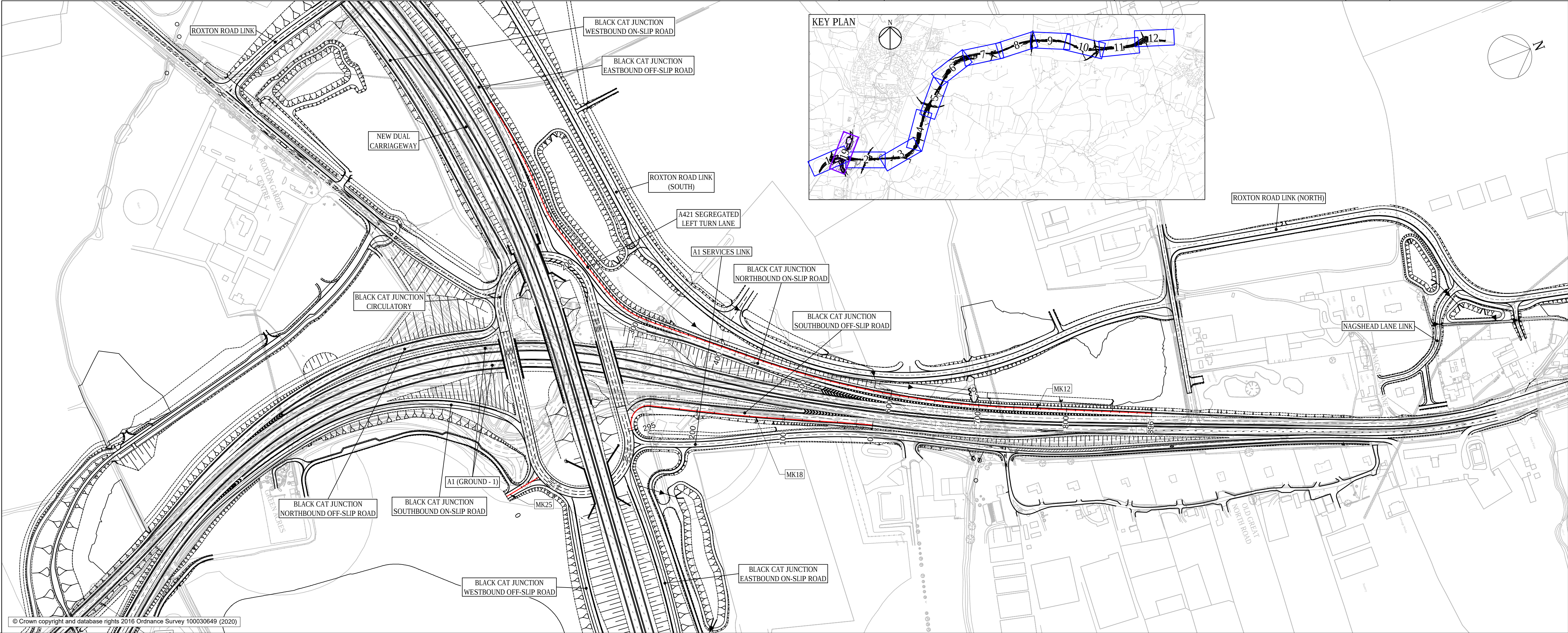
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REALIGNED SECTION OF THE LANE
ALIGNMENT STRING NAME : SR02_CL13

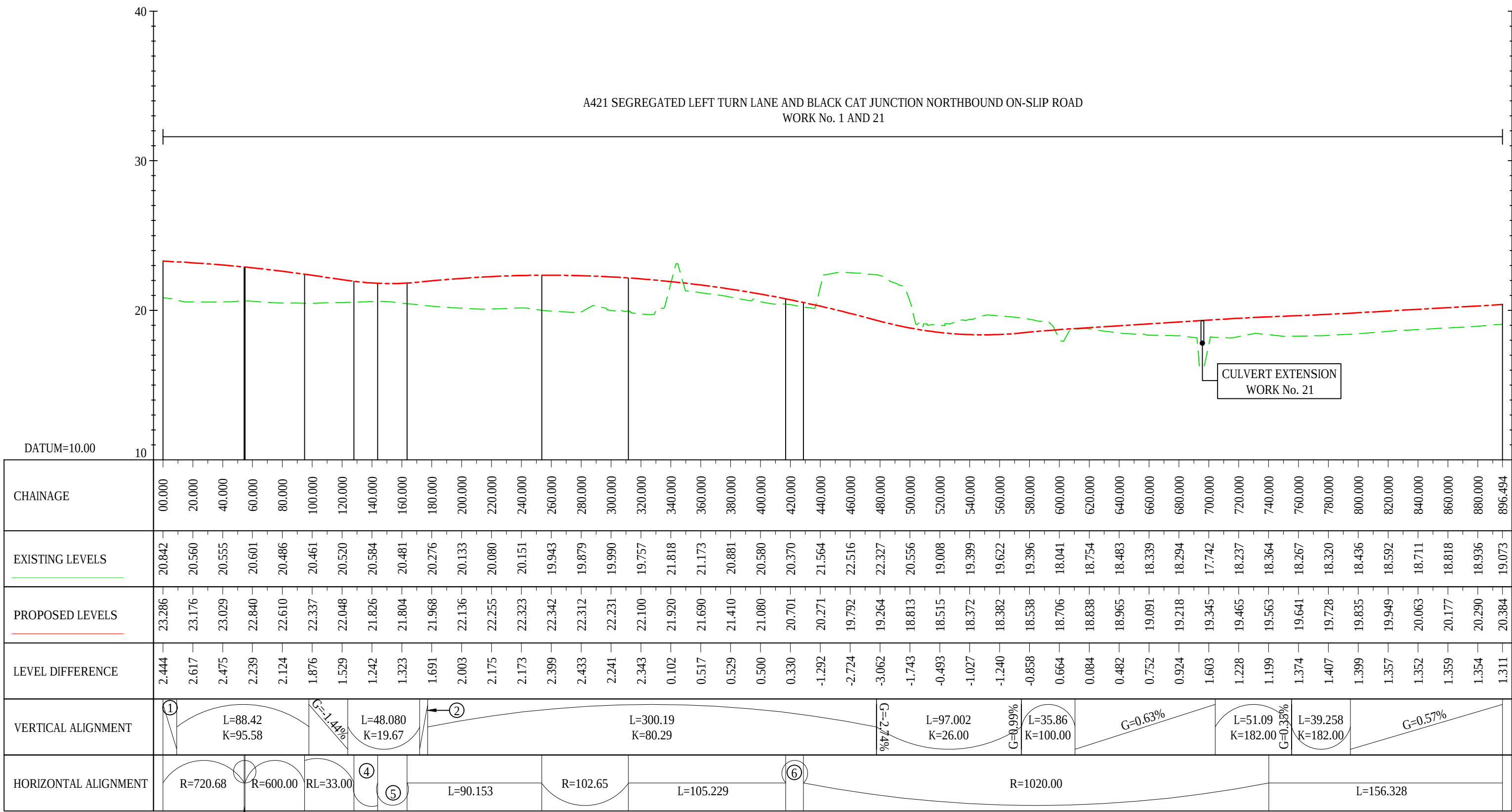
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SCALE: H 1:2500, V 1:250

Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW					
Development Consent Order Number TR010044					
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 18					
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21	
Internal Project No. 60541541		Suitability D7			
Scale @ A1 1:2500		Zone ZN1			
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Drawing Number HE551495		I Originator -ACM		I Volume -LSI	
Location ZN1_SW_Z_ZZ		I Type -DR		I Number -DC-2418	
					Rev P04



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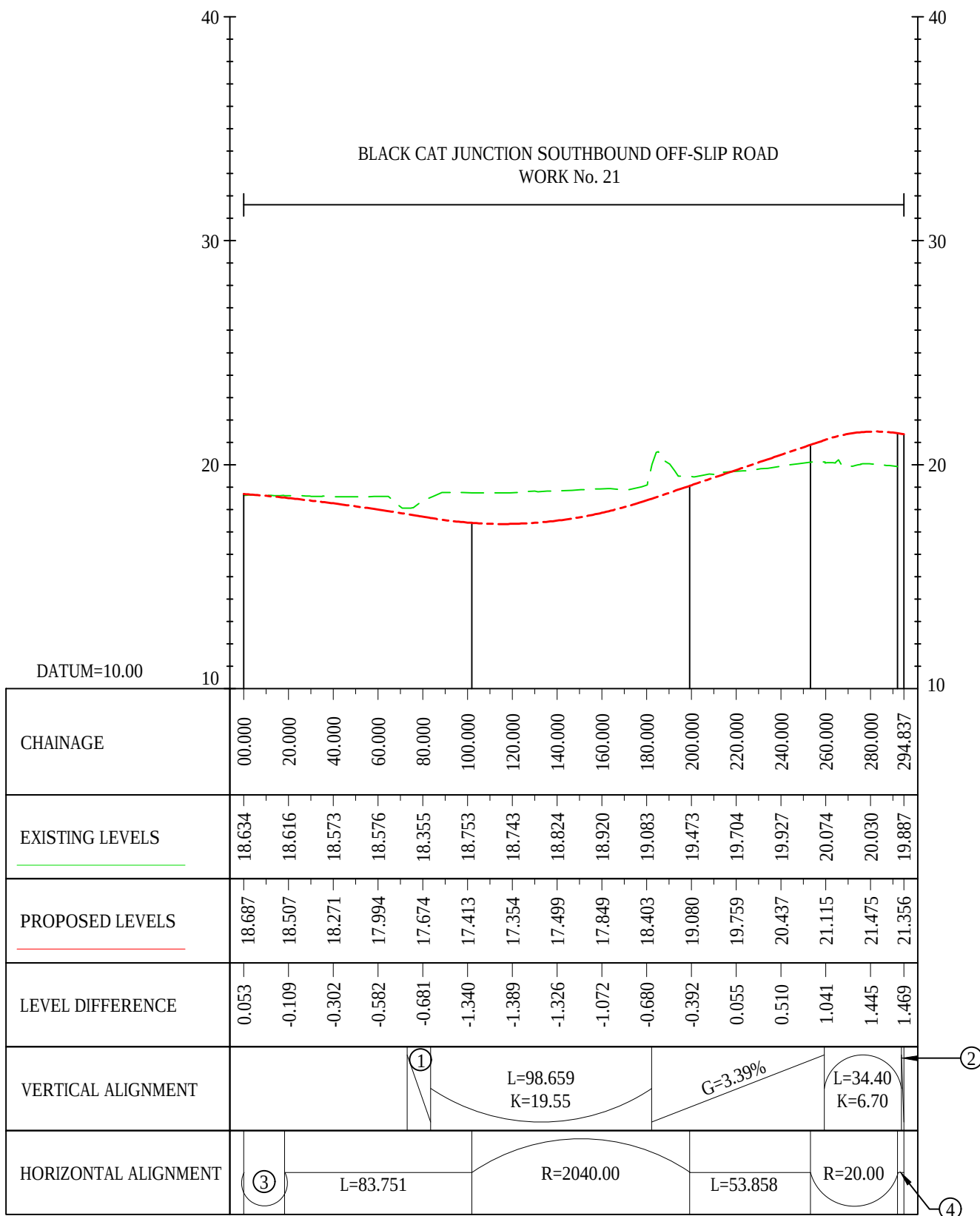
- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



A421 SEGREGATED LEFT TURN LANE AND BLACK CAT JUNCTION NORTHBOUND ON-SLIP ROAD
ALIGNMENT STRING NAME: MK12

LONGSECTION
SCALE: H 1:2500, V 1:250

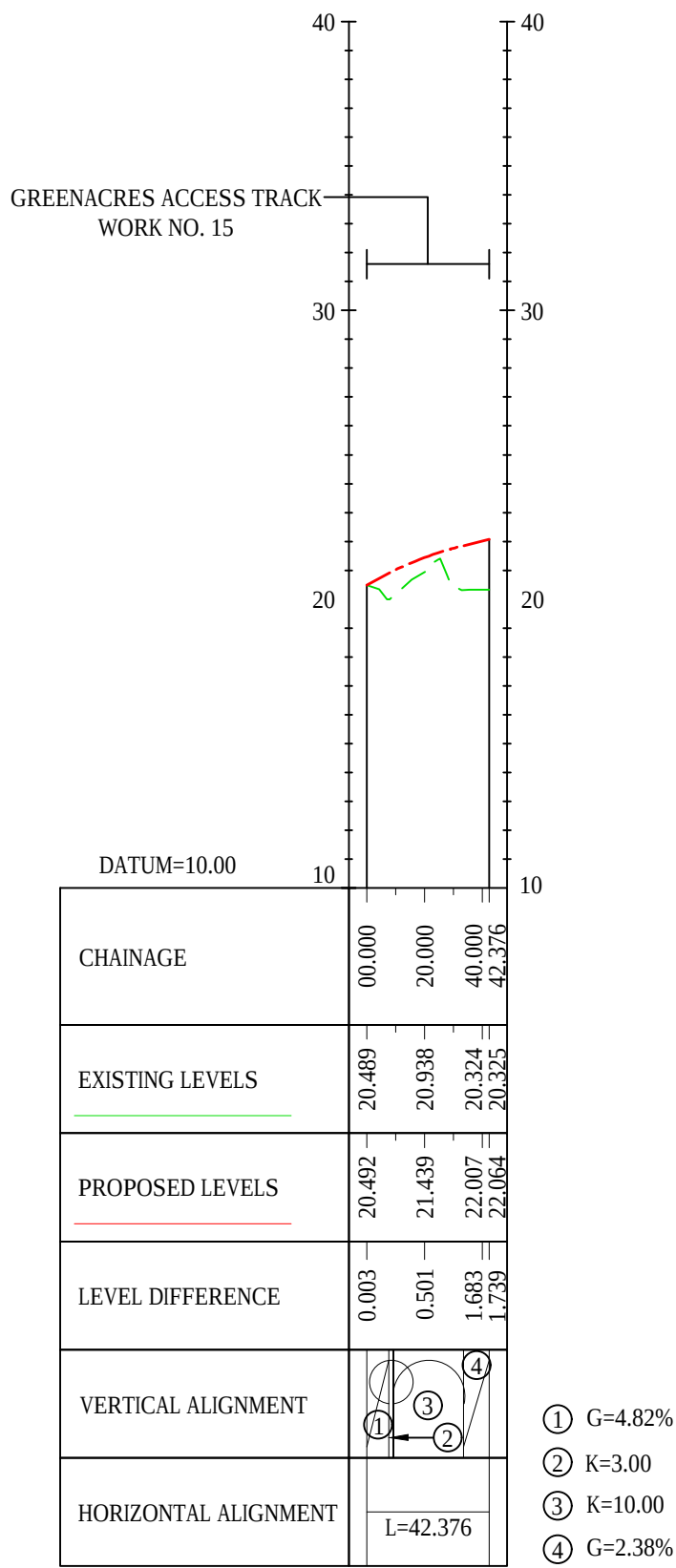
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② G=1.00% ④ L=16.00 ⑥ R=1440.00



BLACK CAT JUNCTION SOUTHBOUND OFF-SLIP ROAD
ALIGNMENT STRING NAME: MK18

LONGSECTION
SCALE: H 1:2500, V 1:250

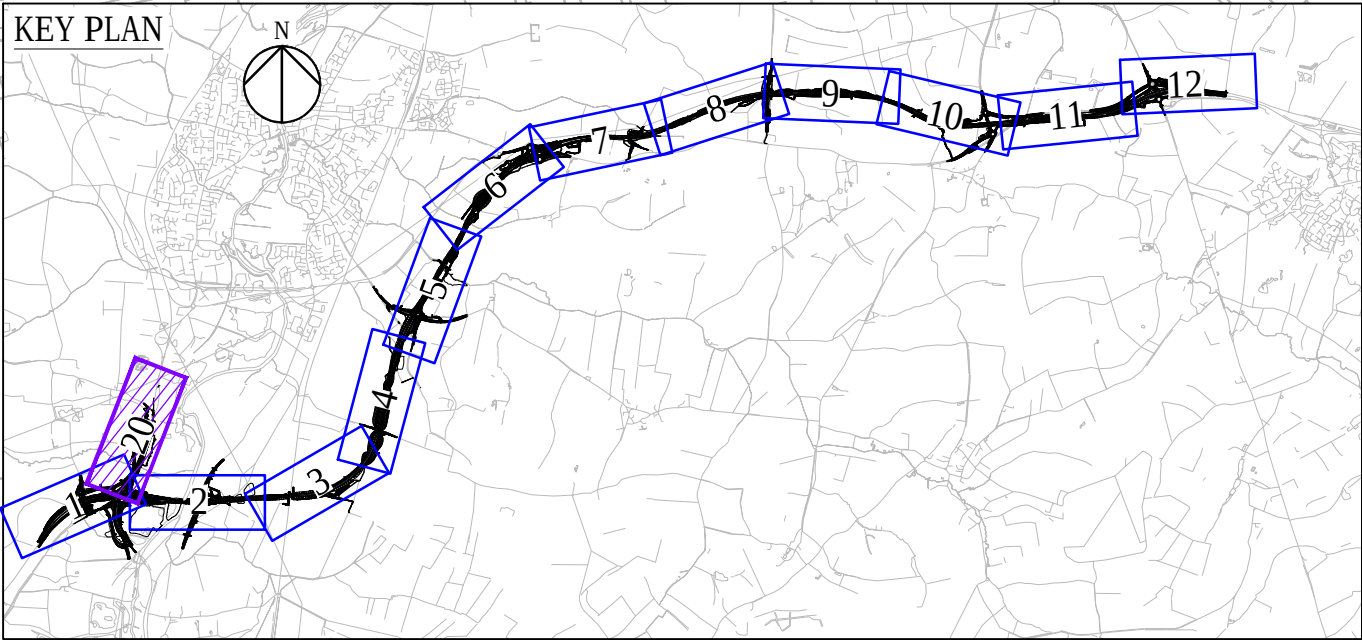
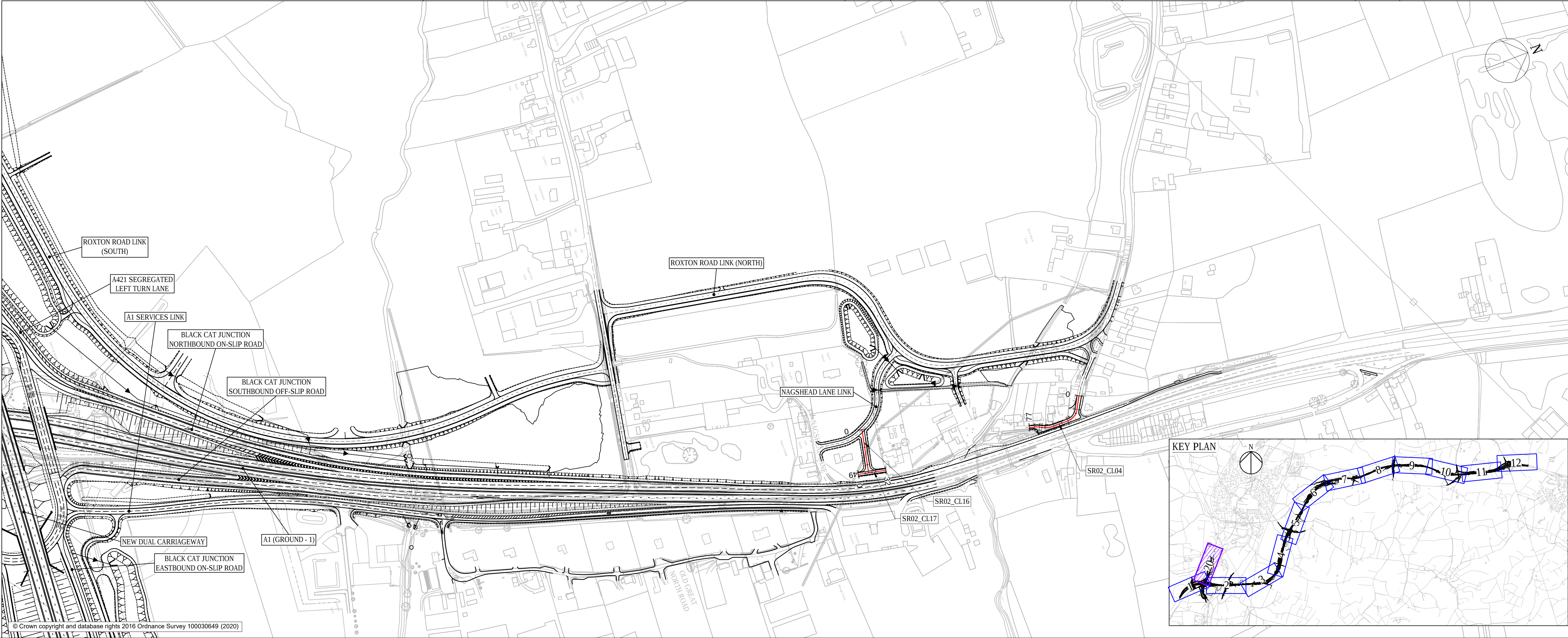
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GREENACRES ACCESS TRACK
ALIGNMENT STRING NAME: MK25

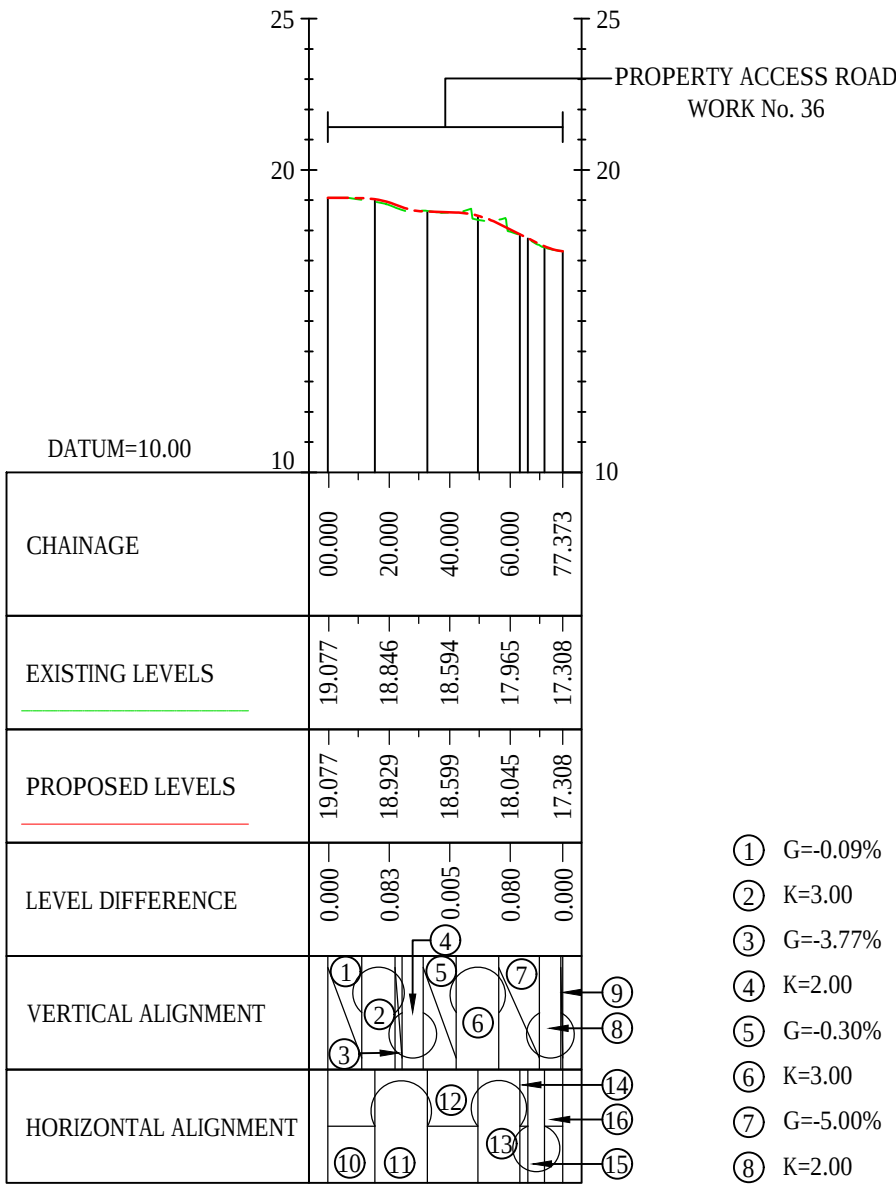
LONGSECTION
SCALE: H 1:2500, V 1:250

Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW					
Development Consent Order Number TR010044					
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 19					
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21	
Internal Project No. 60541541		Suitability D7			
Scale @ A1 1:2500		Zone ZN1			
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Drawing Number HE551495 -ACM		1 Originator -LSI		1 Volume -P04	
Location ZN1_SW_Z_ZZ		1 Type -DR		1 Number -DC-2419	



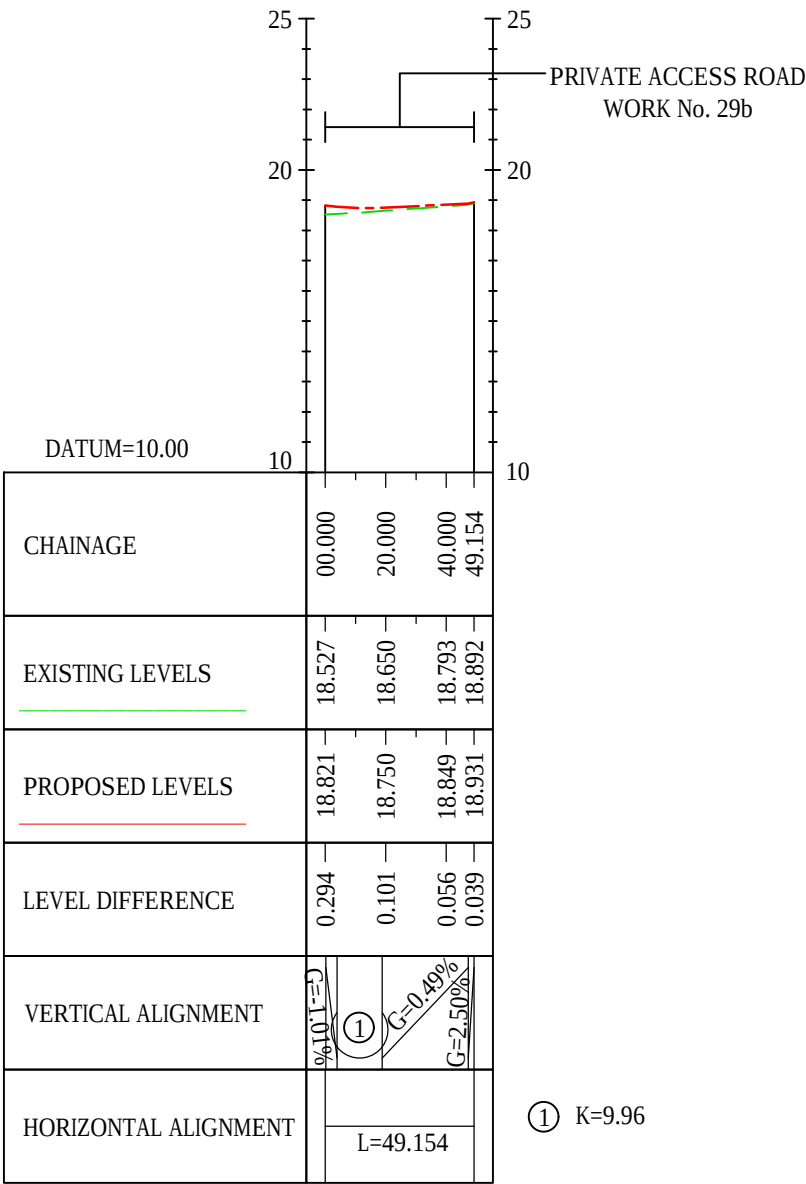
- NOTES
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



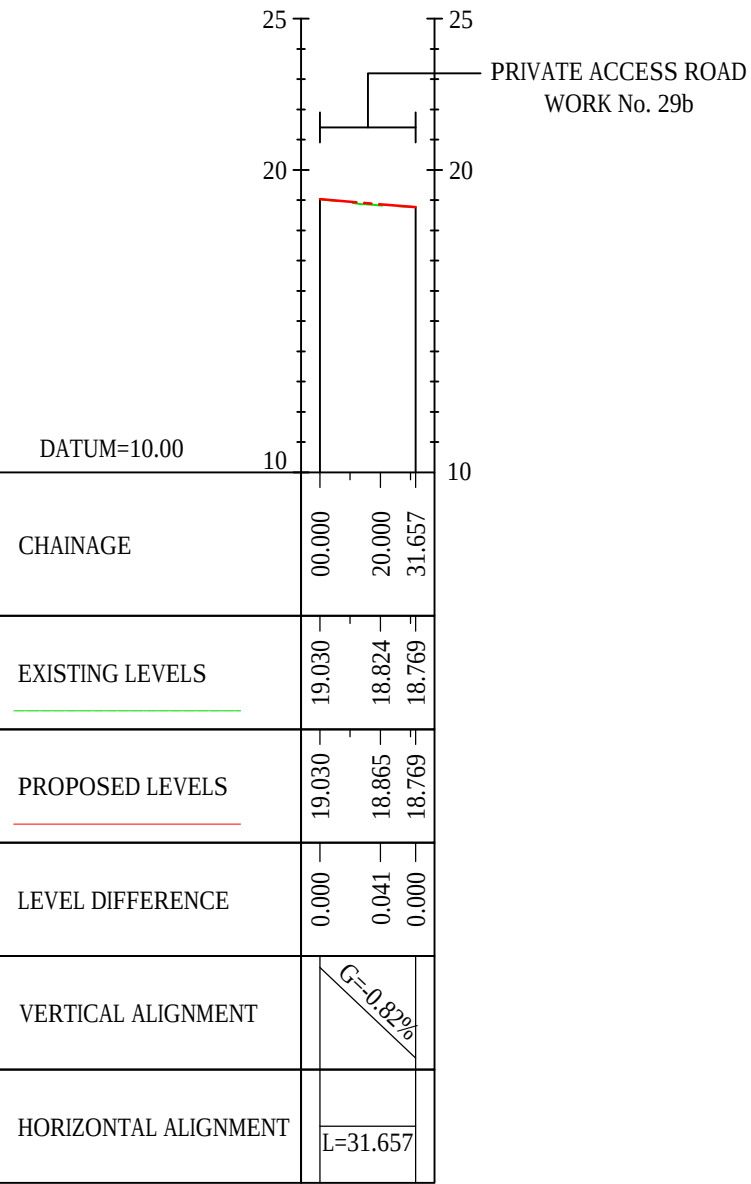
PROPERTY ACCESS ROAD
ALIGNMENT STRING NAME : SR02_CL04

LONGSECTION
SCALE: H 1:2500,V 1:250



PRIVATE ACCESS ROAD
ALIGNMENT STRING NAME : SR02_CL16

LONGSECTION
SCALE: H 1:2500,V 1:250



PRIVATE ACCESS ROAD
ALIGNMENT STRING NAME : SR02_CL17

LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application	WV	TD	03/02/21
Revision Details	By	Check	Date
Purpose of issue			

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW



Development Consent Order Number
TR010044

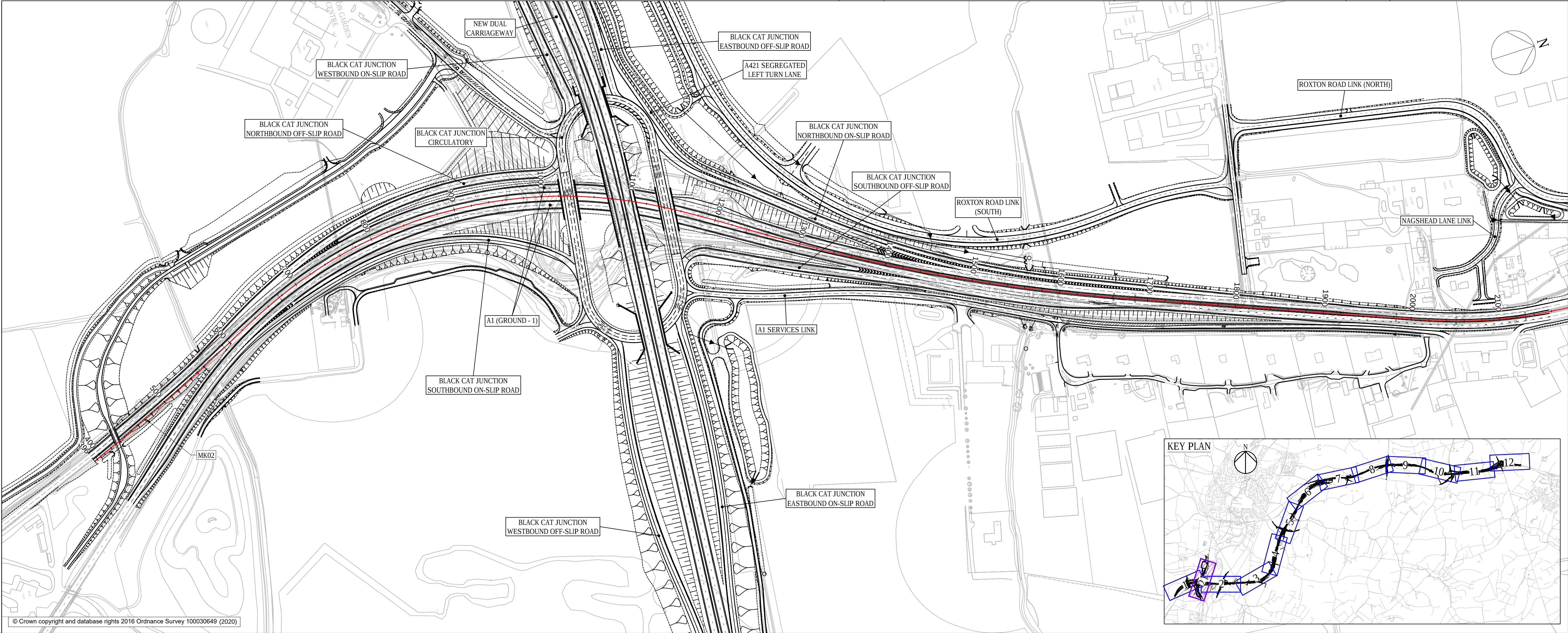
Project Title
**A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS**

Drawing Title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
REGULATION 5(2)(O) & 6(2)
SHEET 20**

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541	Suitability D7	Zone ZN1		
Scale @ A1 1:2500				

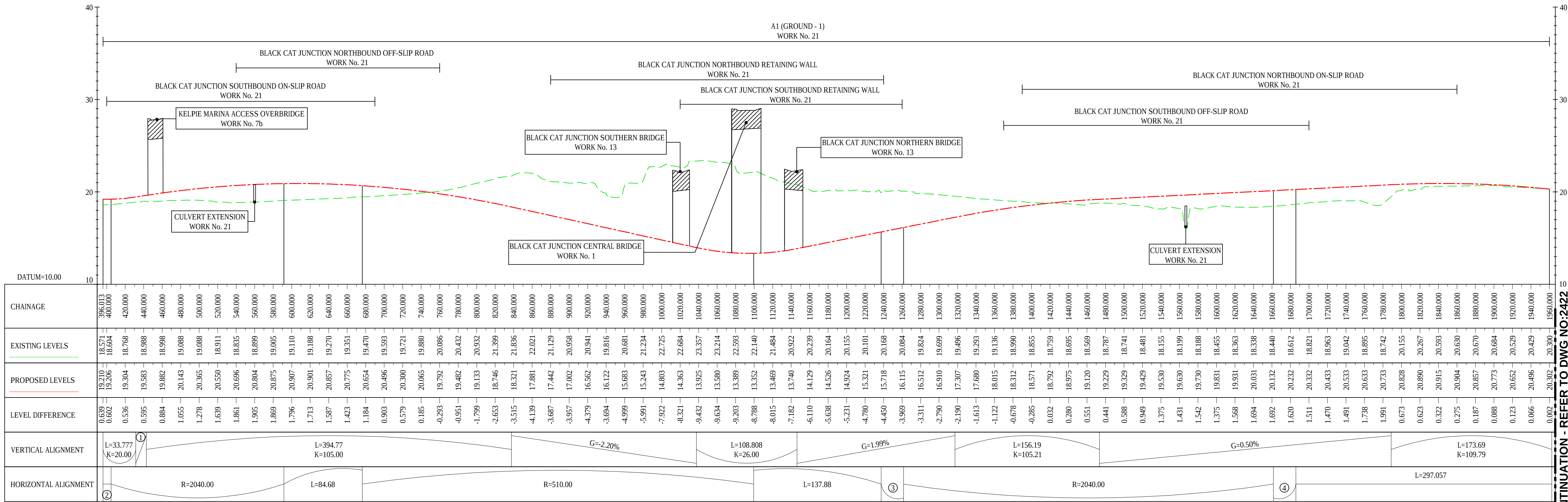
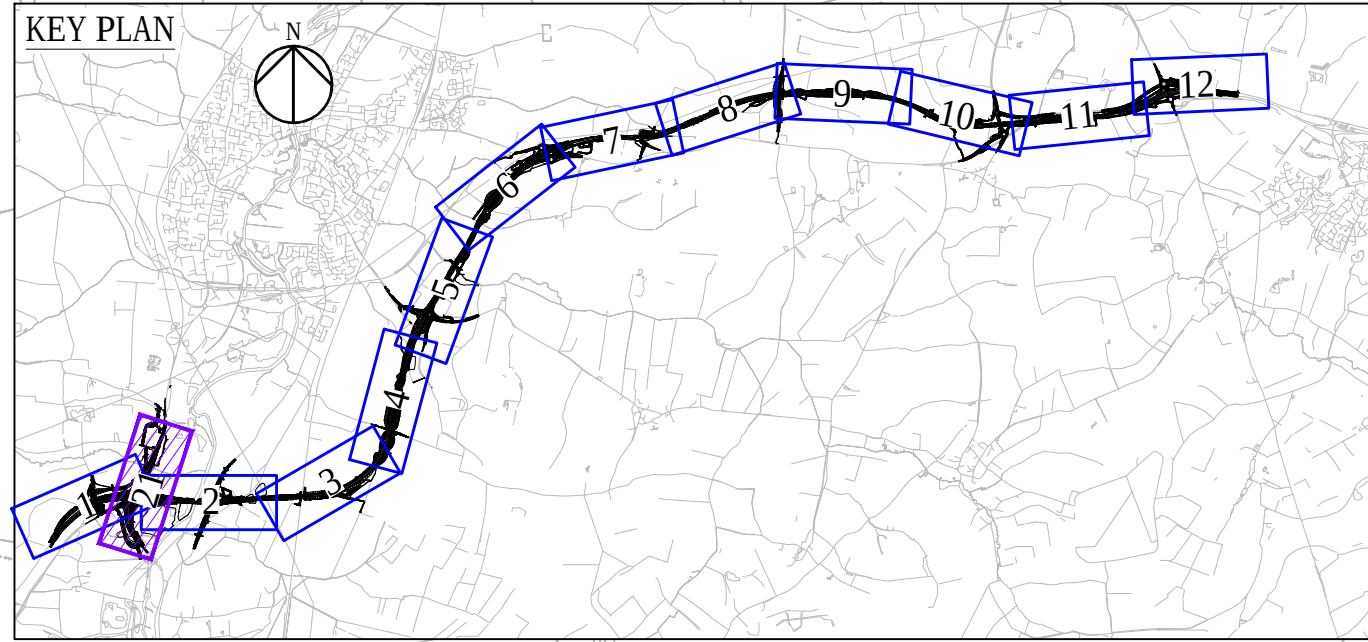
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Drawing Number HE551495 -ACM -LSI - ZN1_SW_Z_ZZ -DR-DC-2420	1 Originator 1 Volume 1 Type 1 Role 1 Number	Rev P04
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT

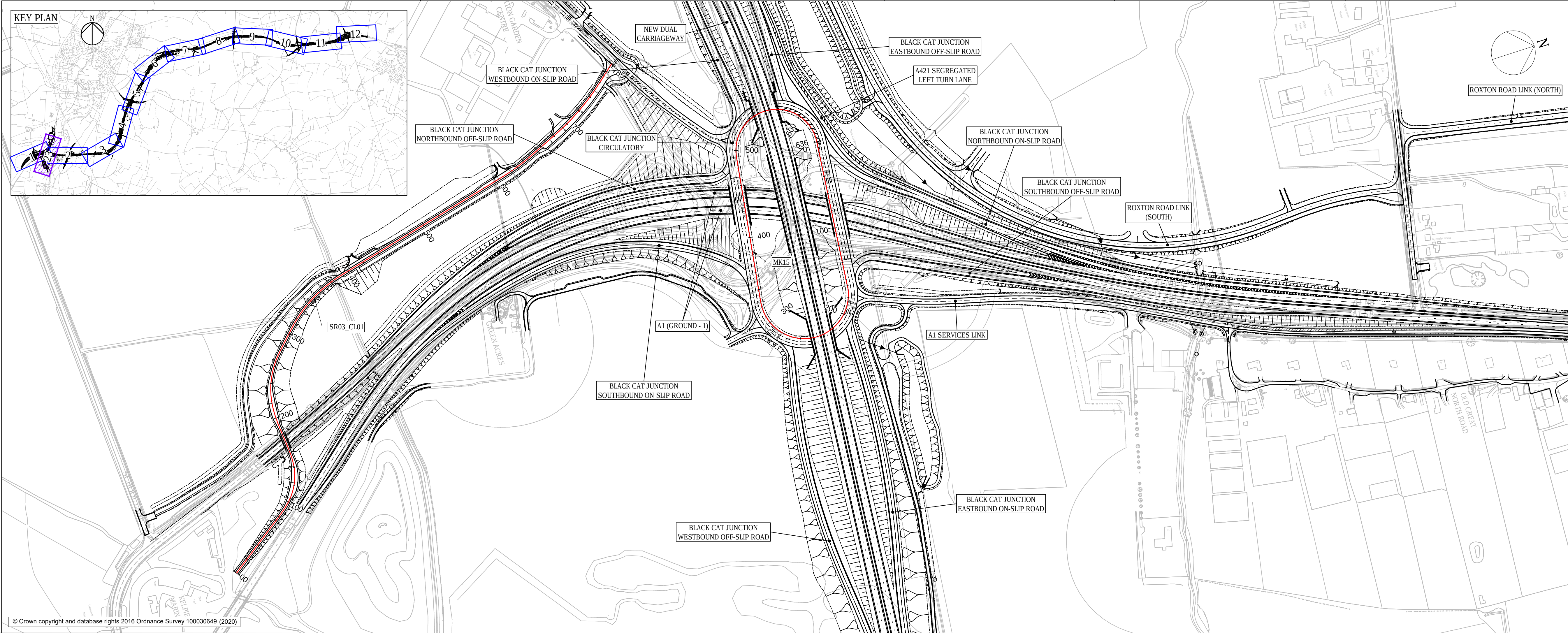


A1 (GROUND - 1)
ALIGNMENT STRING NAME : MK02

LONGSECTION (PART 1 OF 2)
SCALE: H 1:2500,V 1:250

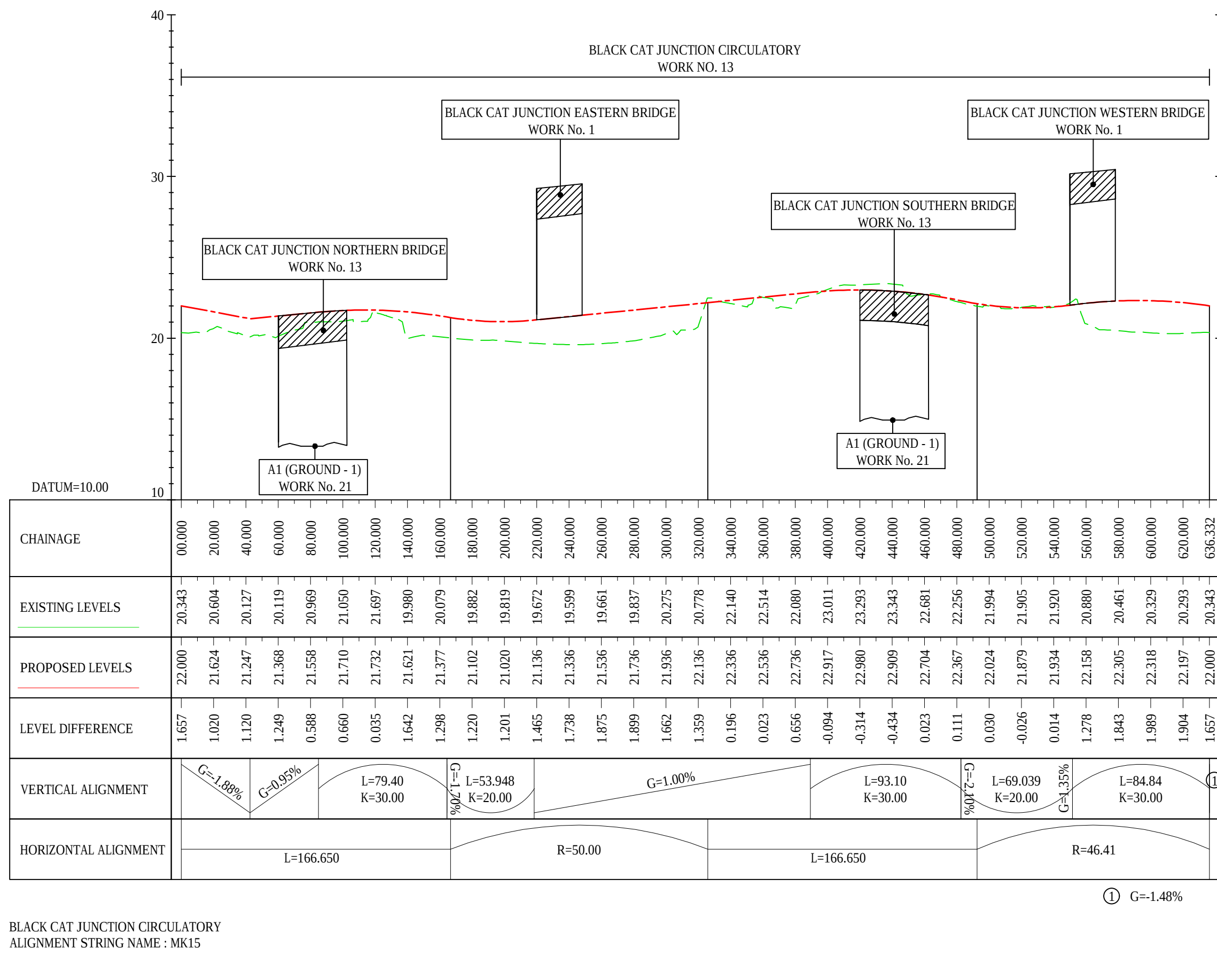
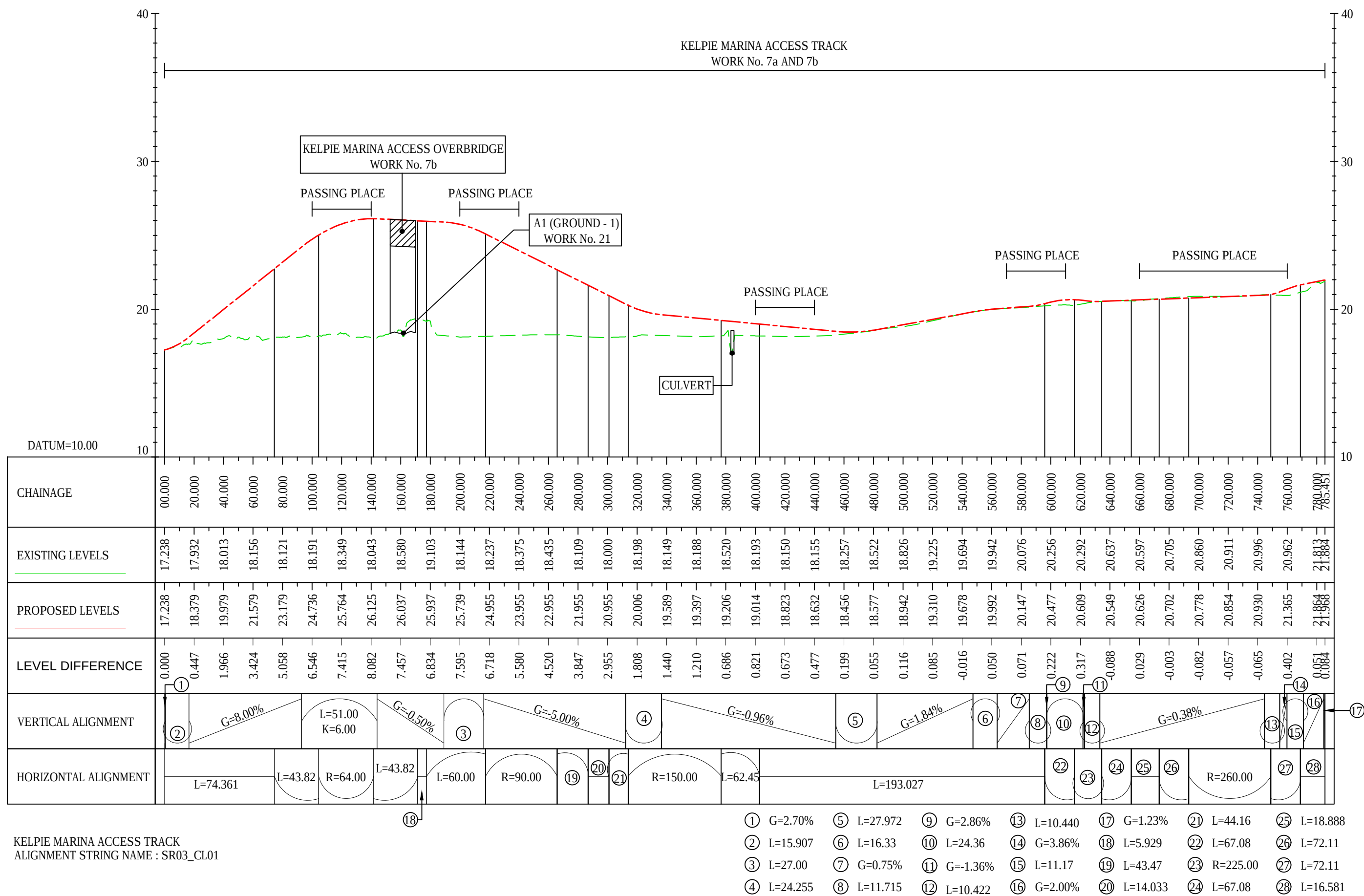
CONTINUATION - REFER TO DWG NO.2422

Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client		Working on behalf of			
Highways England		highways england			
Woodlands		Manton Lane			
Manton Industrial Estate		Bedford			
MK41 7LW		Development Consent Order Number			
TR010044		Project Title			
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS		Drawing Title			
ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 21		Designed			
GH	Drawn	Checked	Approved	Date	
60541541	WV	JMW	TD	03/02/21	
Internal Project No.		Suitability		Zone	
1:2500		D7		ZN1	
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Drawing Number		1 Originator		1 Volume	
HE551495 -ACM		-LSI		-P04	
ZN1_SW_Z_ZZ		-DR-DC-2421		Location	
1 Type		1 Role		1 Number	

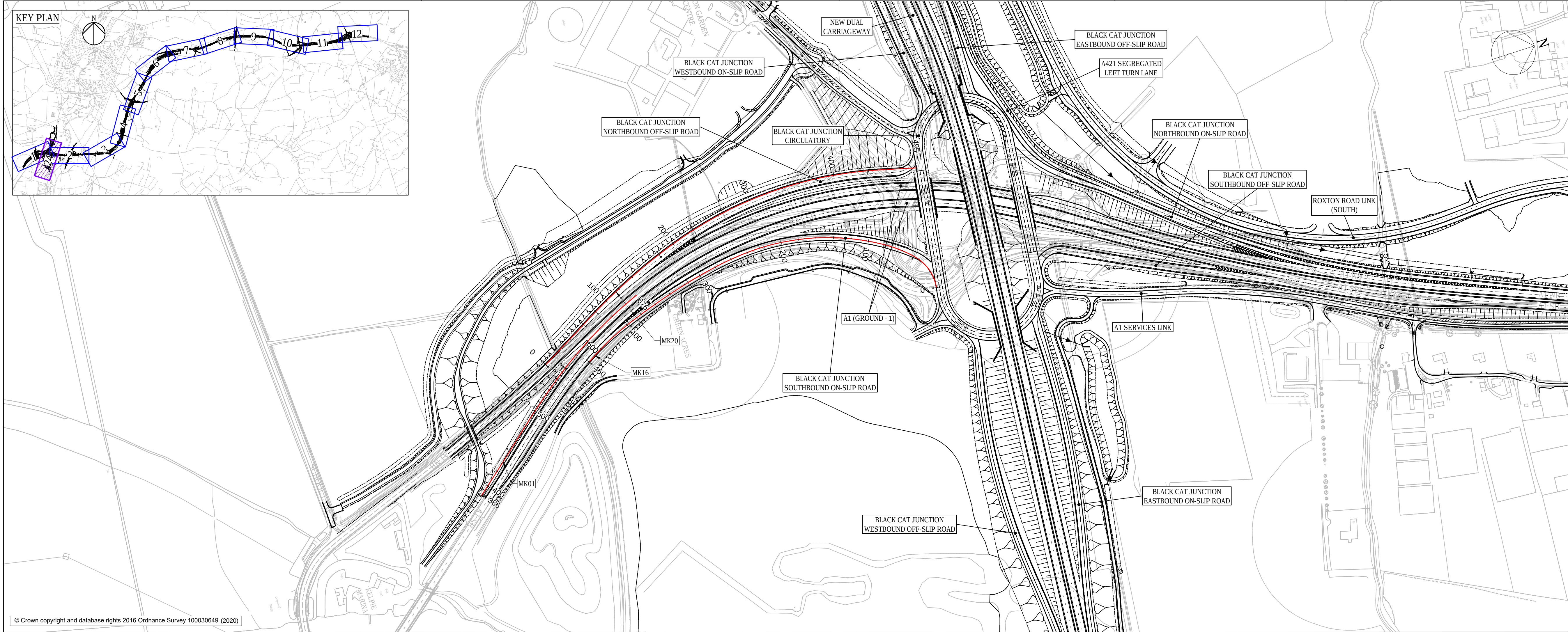


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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT

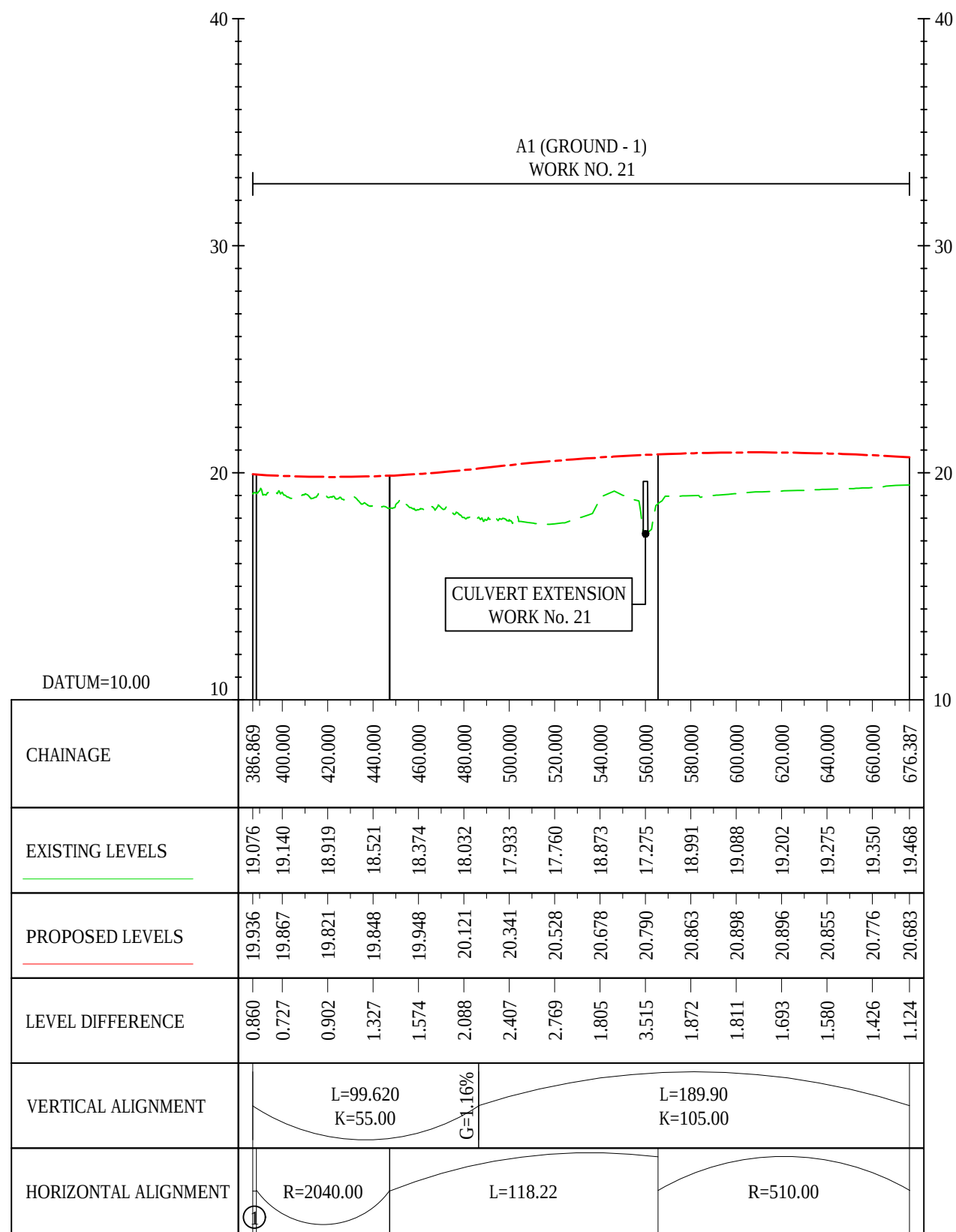


Final for DCO Application	WV	TD	03/02/21	P04
Revision Details	By	Check	Date	Suffix
Purpose of issue				
DCO APPLICATION				
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW				
Development Consent Order Number TR010044				
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS				
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 23				
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541			Suitability D7	
Scale @ A1 1:2500			Zone ZN1	
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.				
Drawing Number HE551495 -ACM			Rev P04	
Location ZN1_SW_Z_ZZ -DR-DC-2423			I Originator -LSI -	
			I Volume I Type I Role I Number	



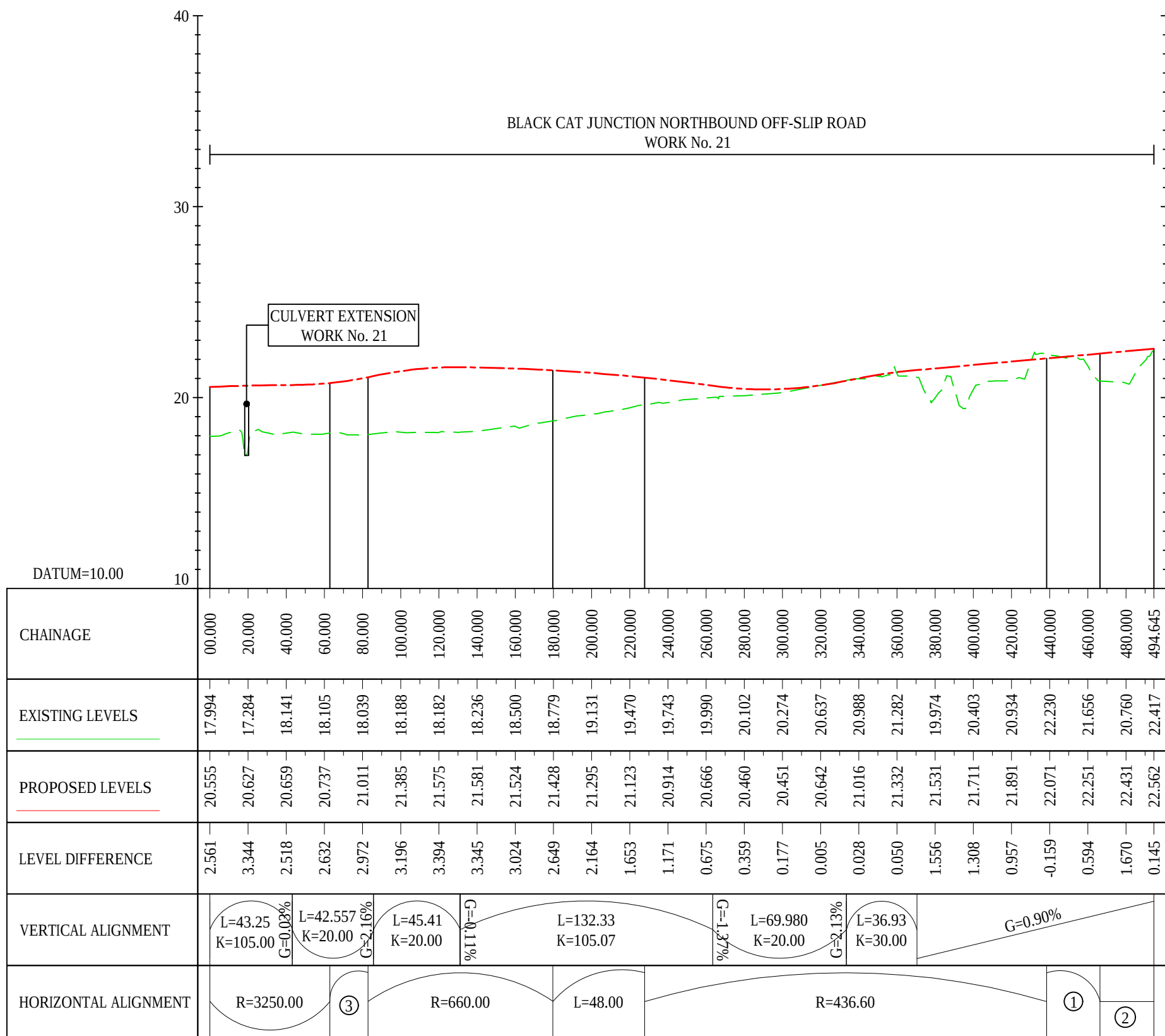
- NOTES
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



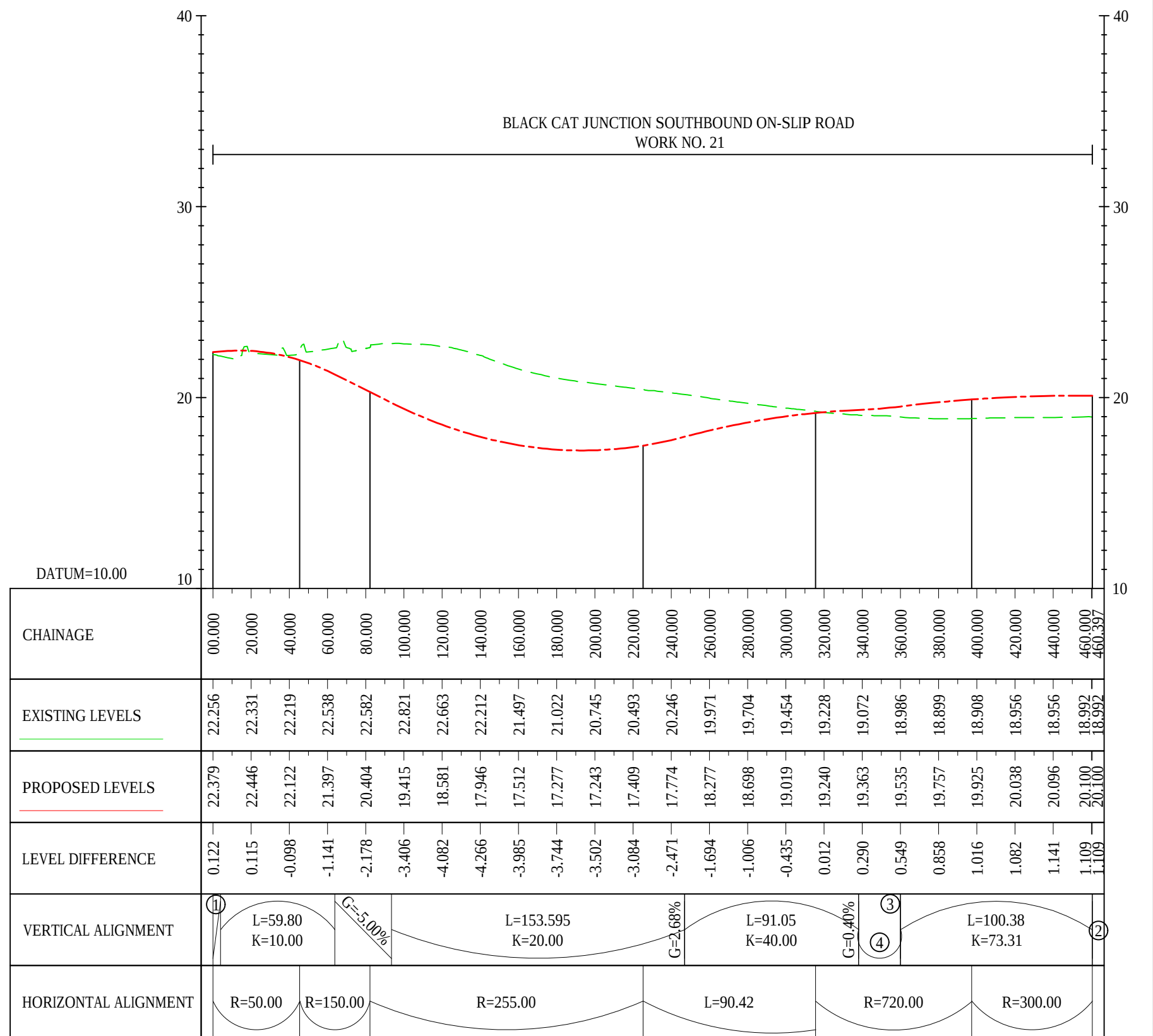
A1 (GROUND - 1)
ALIGNMENT STRING NAME : MK01

LONGSECTION
SCALE: H 1:2500,V 1:250



BLACK CAT JUNCTION NORTHBOUND OFF-SLIP ROAD
ALIGNMENT STRING NAME : MK20

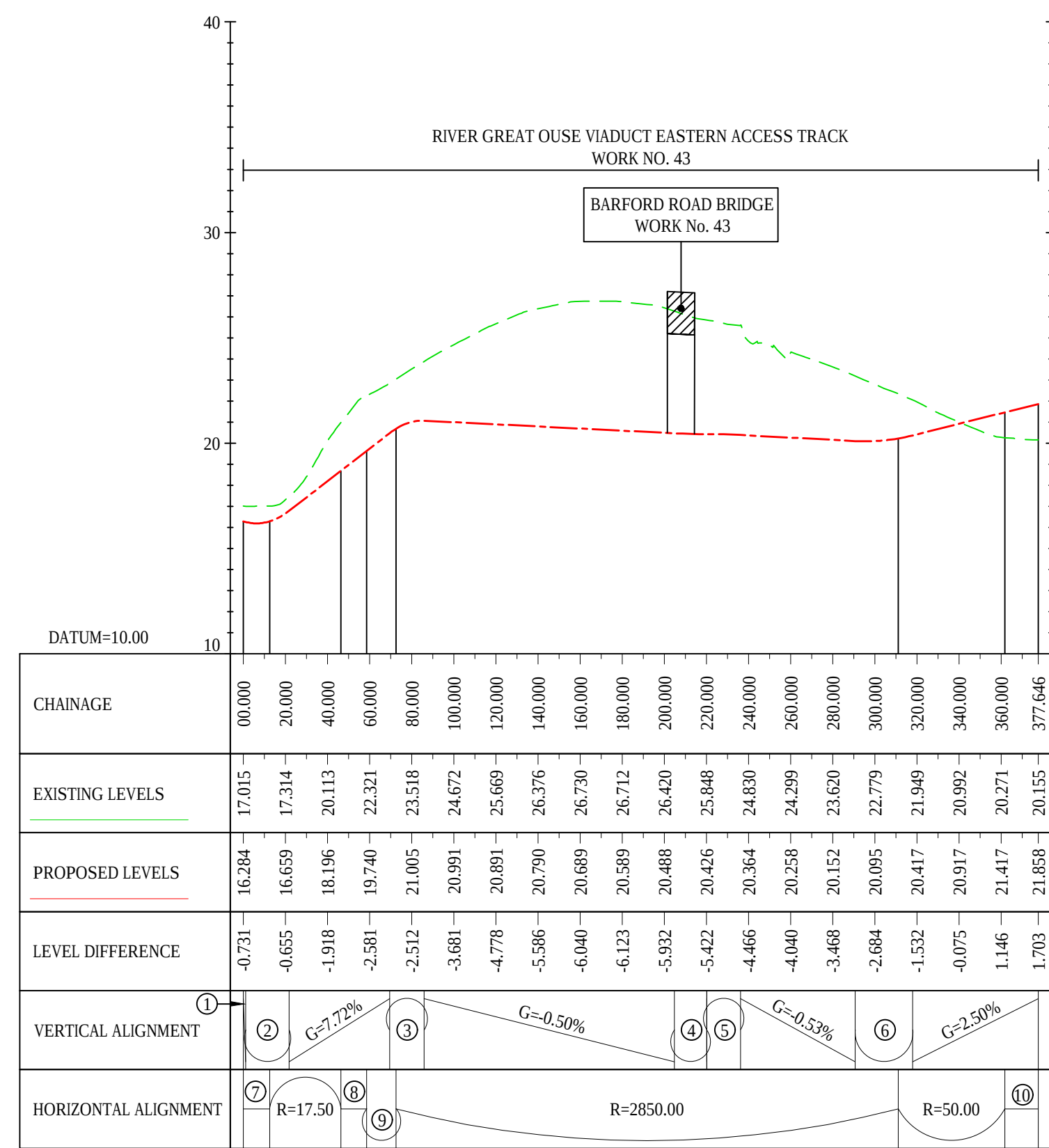
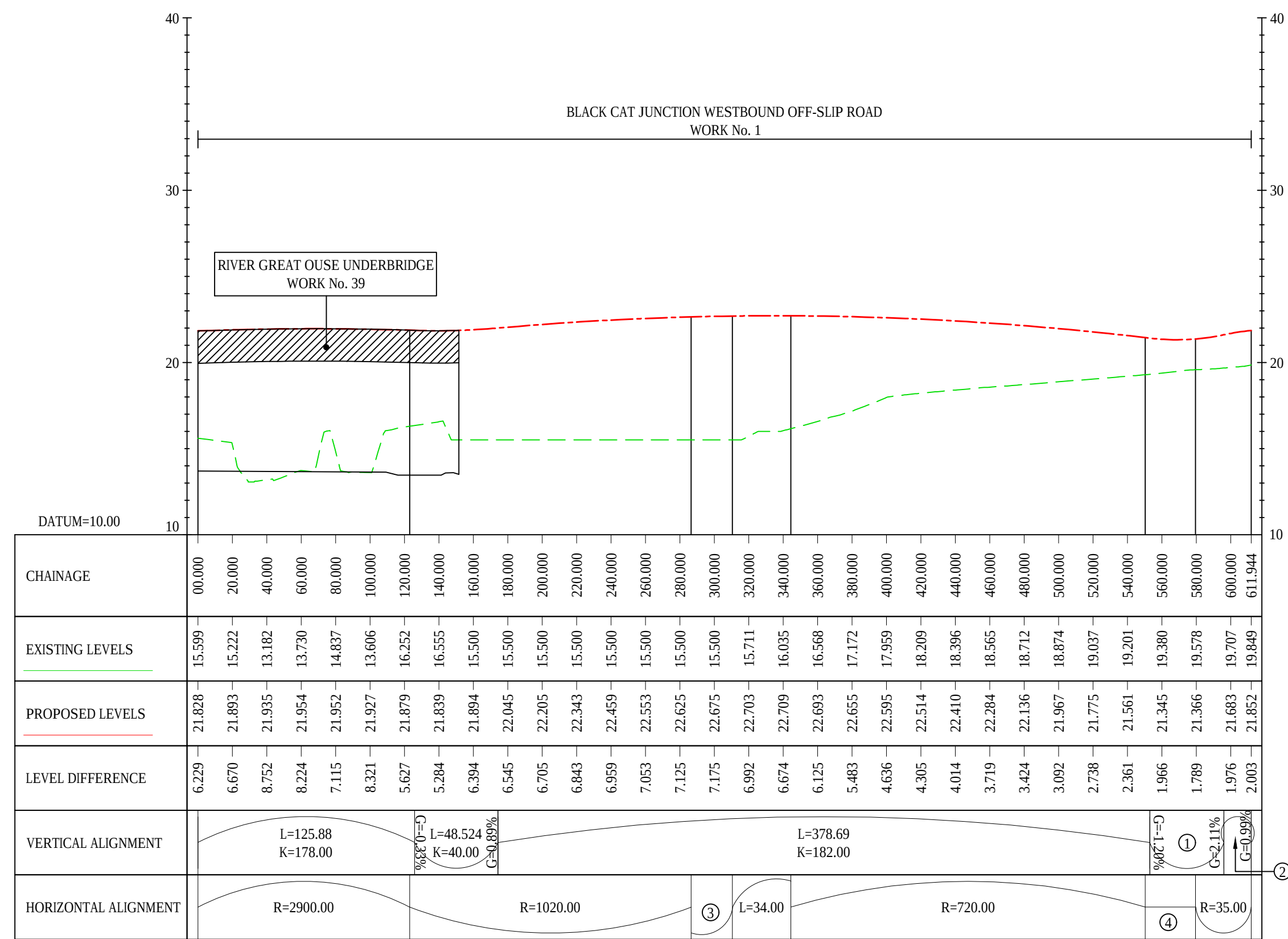
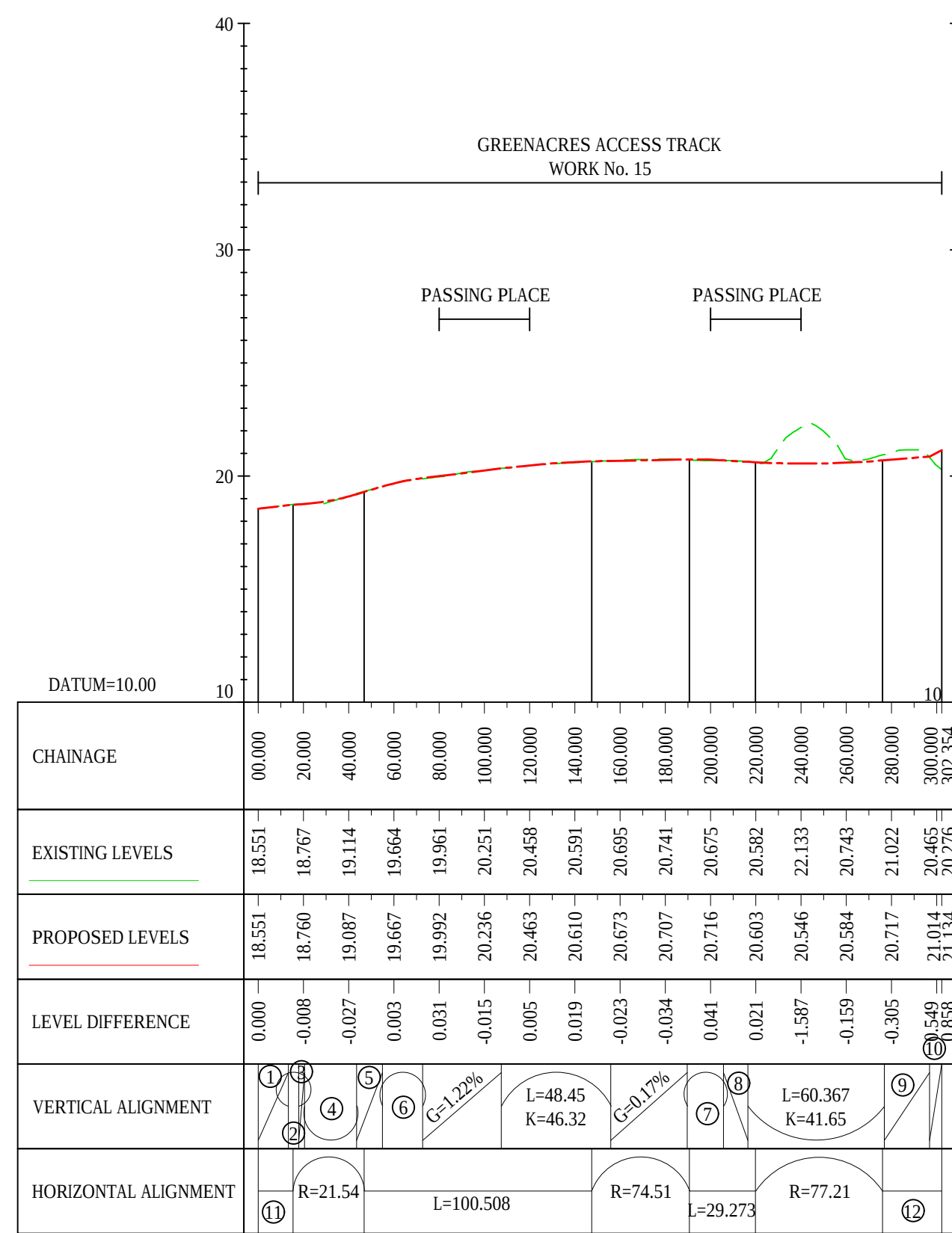
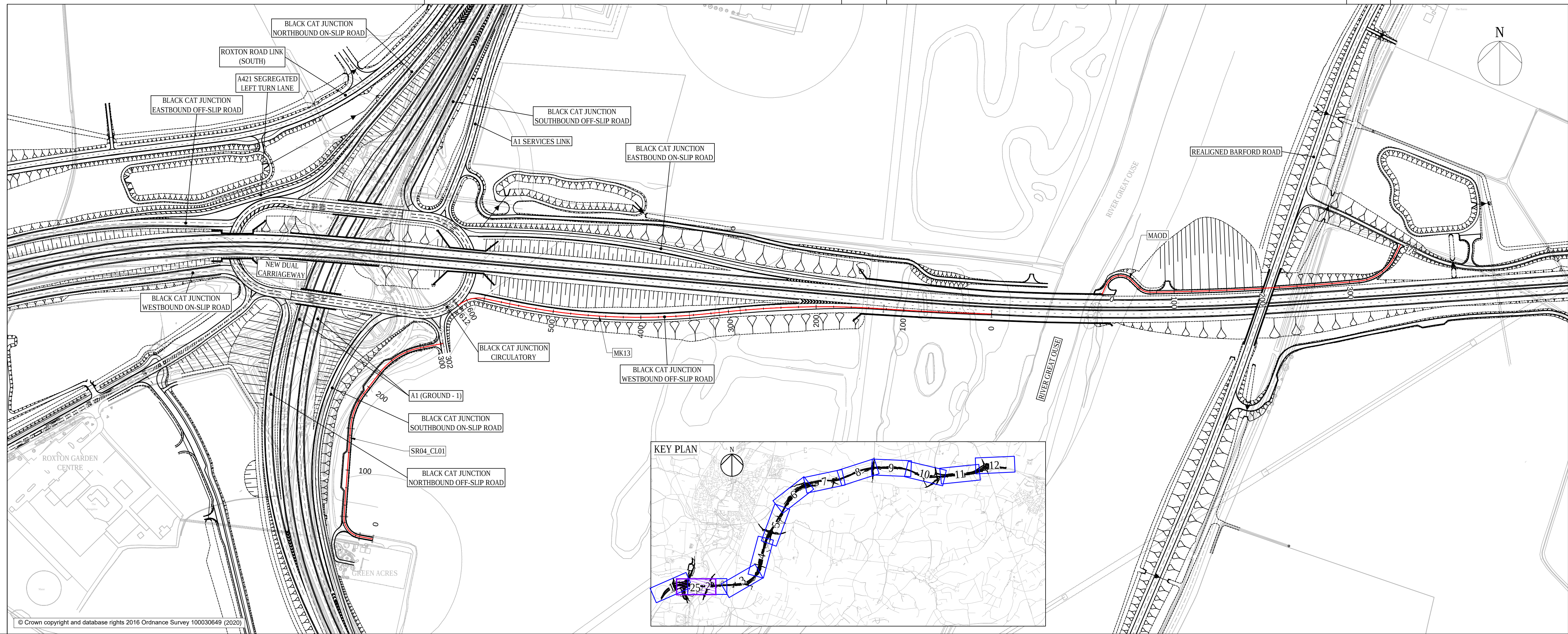
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SCALE: H 1:2500,V 1:250



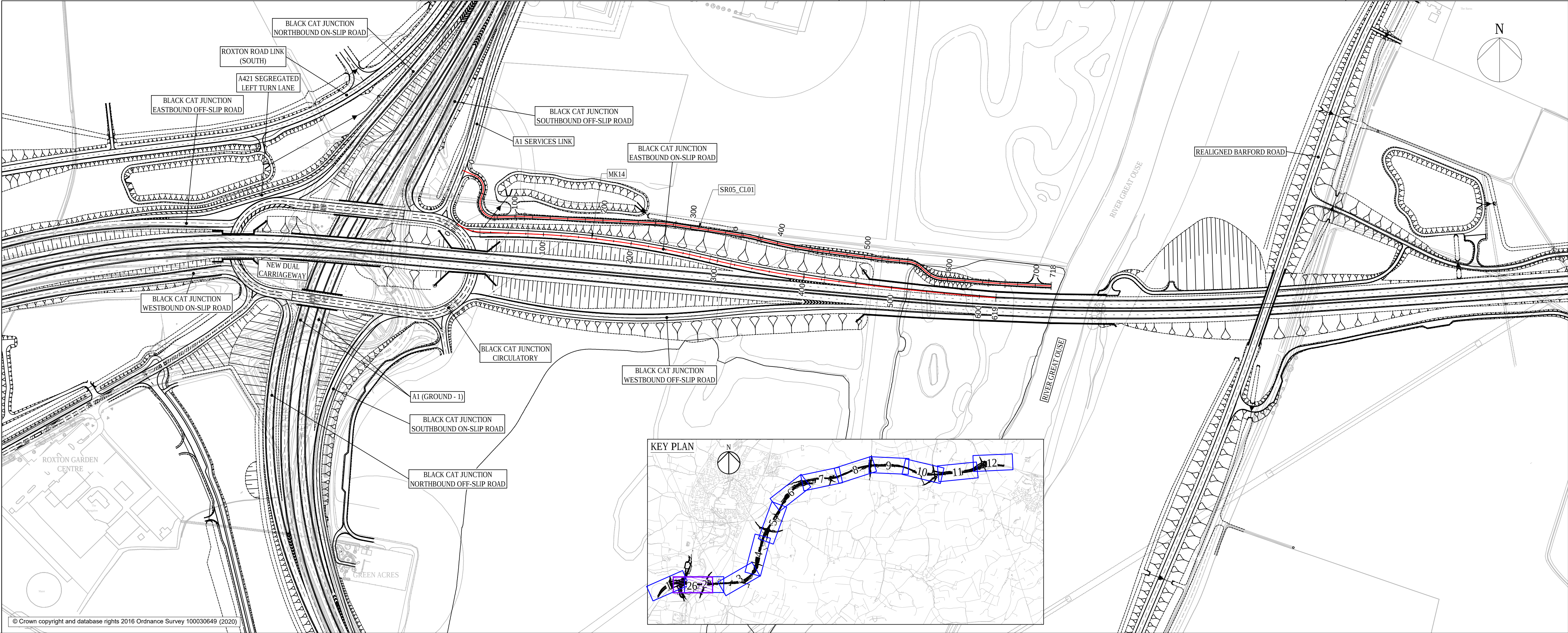
BLACK CAT JUNCTION SOUTHBOUND ON-SLIP ROAD
ALIGNMENT STRING NAME : MK16

LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application	WV	TD	03/02/21	P04
Revision Details	By	Check	Date	Suffix
Purpose of issue				
DCO APPLICATION				
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW		Working on behalf of highways england		
Development Consent Order Number TR010044				
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS				
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 24				
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541		Suitability D7		
Scale @ A1 1:2500		Zone ZN1		
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Drawing Number HE551495 -ACM		I Originator -LSI -		Rev P04
Location ZN1_SW_Z_ZZ -DR-DC-2424		I Type I Role I Number		

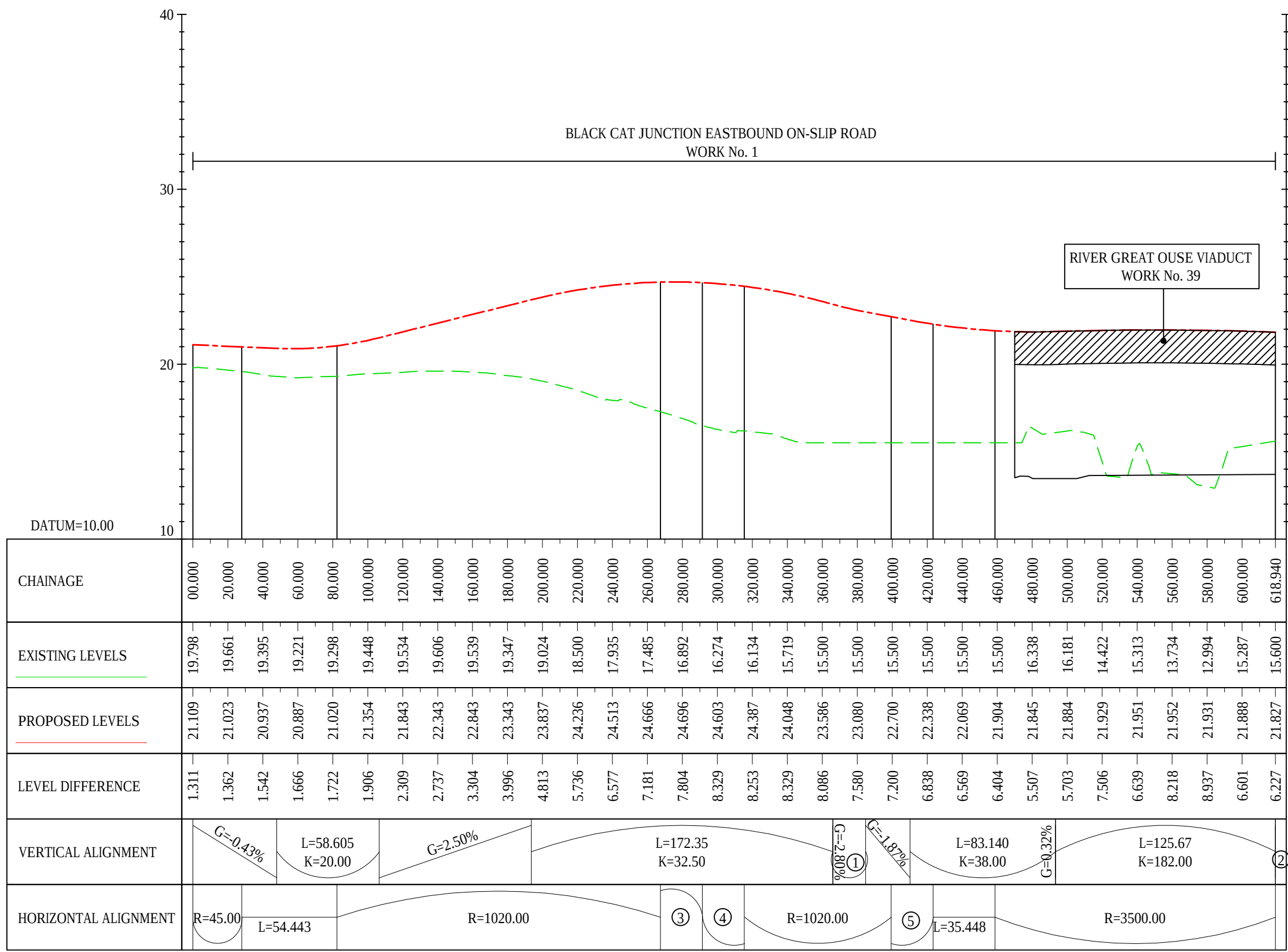
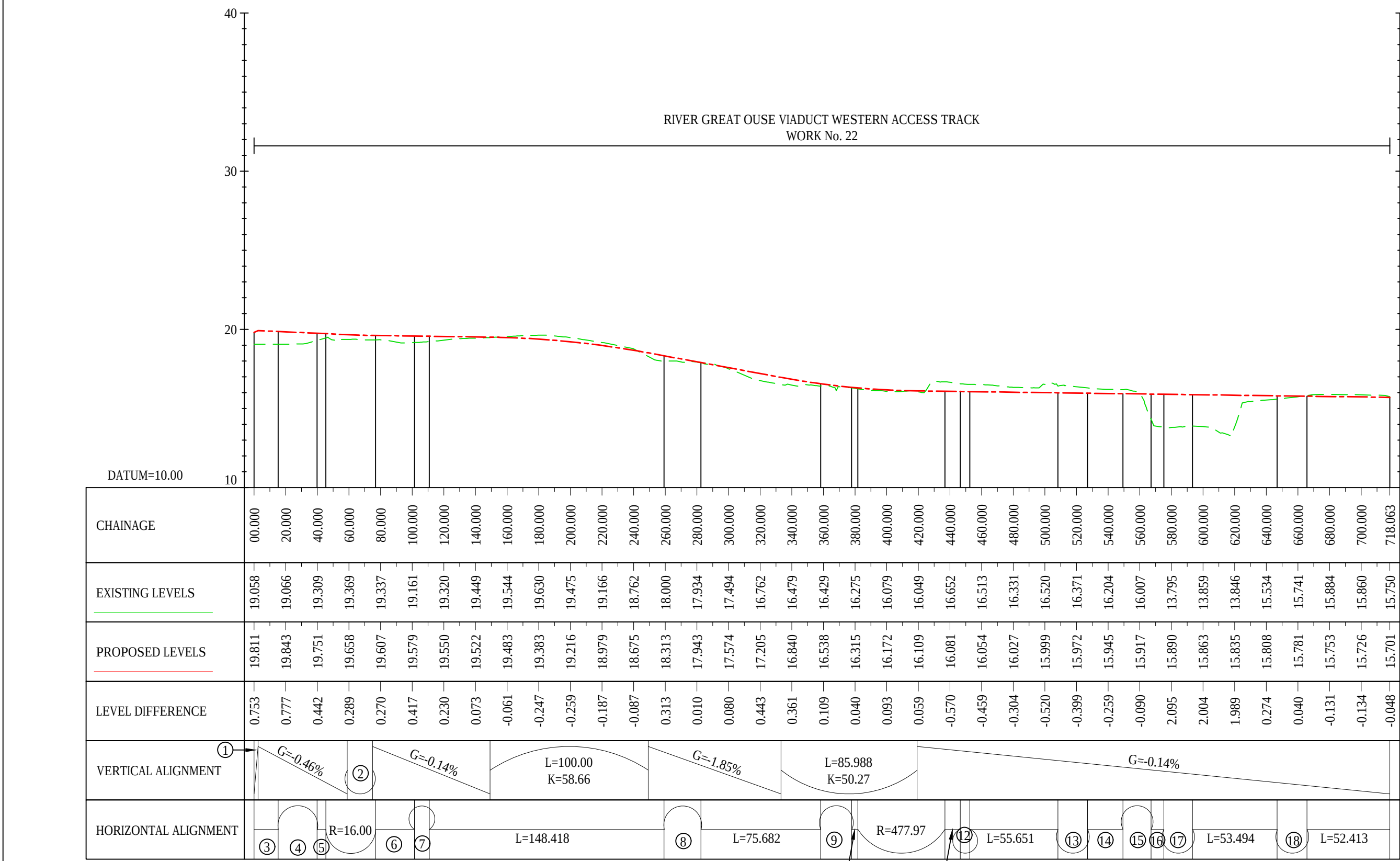


NOTES																																			
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2. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.																																			
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KEY																																			
 CENTRELINE OF NEW ROAD																																			
 FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD																																			
 TOPOGRAPHICAL SURVEY (EXISTING GROUND)																																			
 BRIDGE																																			
 CULVERT																																			
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Final for DCO Application		WV	TD	03/02/21																															
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Purpose of issue																																			
DCO APPLICATION																																			
Client Highways England Woodlands Manton Lane Manton Industrial Estate Borford MK41 7LW Working on behalf of  highways england																																			
Development Consent Order Number TR010044																																			
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS																																			
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 25																																			
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Scale @ A1 1:2500	Zone ZNI																																		
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Drawing Number HE551495	Highways England PIN -ACM	I Originator -LSI	I Volume -	Rev P04																															
ZNI_SW_Z_Z -DR-DC-2425																																			
Location	I Type	I Role	I Number																																



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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



RIVER GREAT OUSE VIADUCT WESTERN ACCESS TRACK
ALIGNMENT STRING NAME : SR05_CL01

LONGSECTION
SCALE: H 1:2500,V 1:250

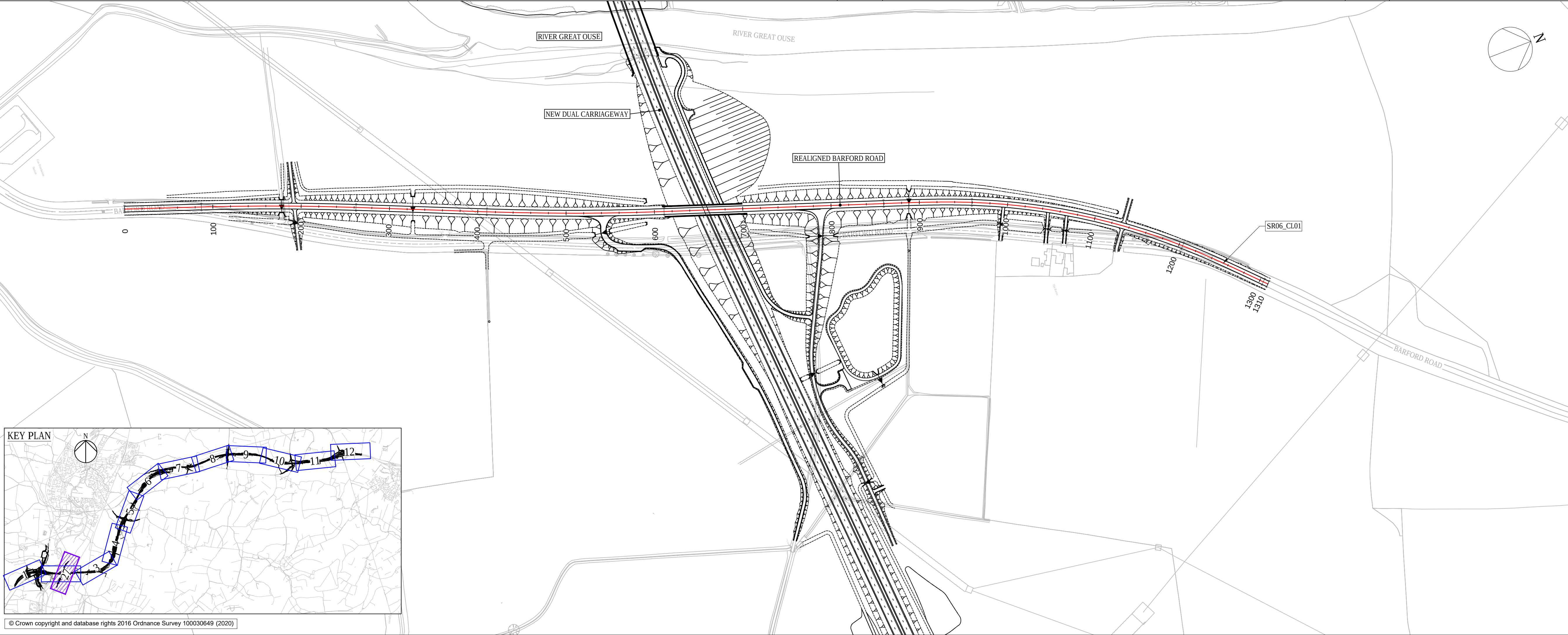
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BLACK CAT JUNCTION EASTBOUND ON-SLIP ROAD
ALIGNMENT STRING NAME : MK14

LONGSECTION
SCALE: H 1:2500,V 1:250

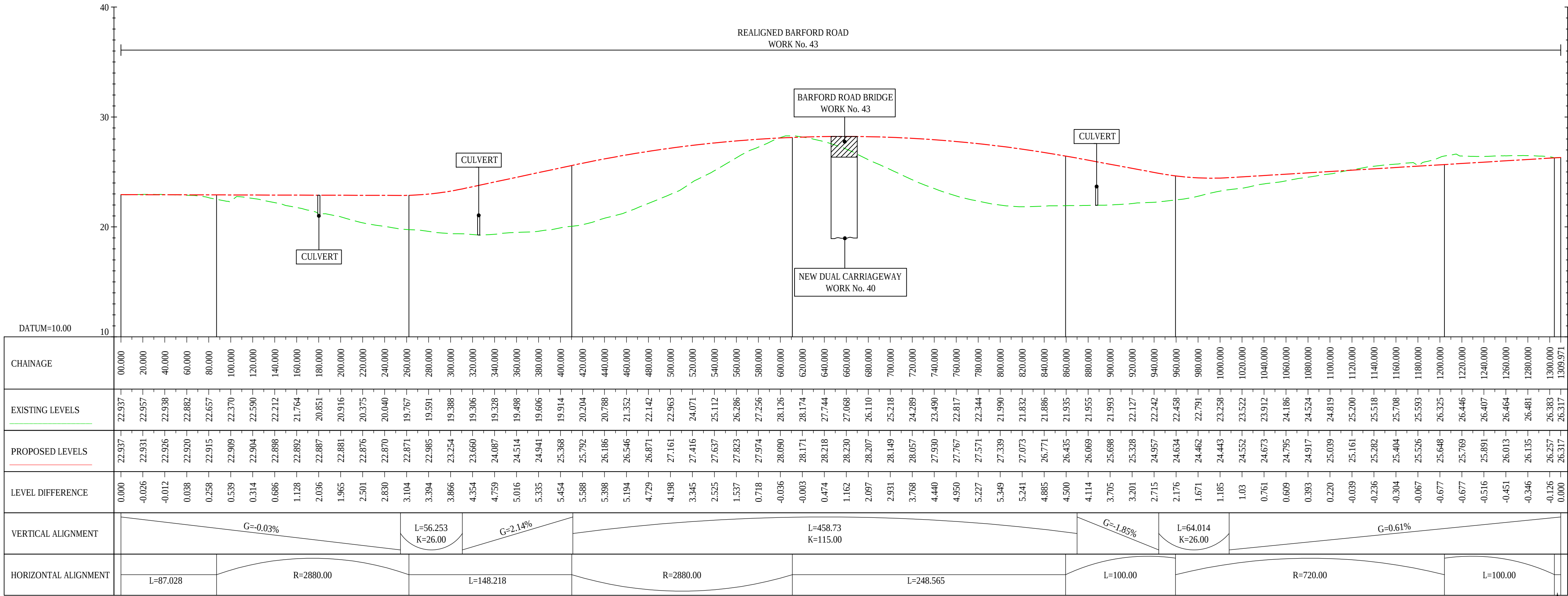
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Final for DCO Application	WV	TD	03/02/21	P04
Revision Details	By	Check	Date	Suffix
Purpose of issue				
DCO APPLICATION				
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW				
Development Consent Order Number TR010044				
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS				
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 26				
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541			Suitability D7	
Scale @ A1 1:2500			Zone ZN1	
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Drawing Number HE551495 -ACM			Rev P04	
Highways England PIN ZN1_SW_Z_ZZ			1 Originator -LSI -	
Location			1 Volume -DR-DC-2426	
1 Type			1 Role 1 Number	



- NOTES
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



REALIGNED BARFORD ROAD
ALIGNMENT STRING NAME : SR06_CL01

LONGSECTION
SCALE: H 1:2500, V 1:250

Final for DCO Application	WV	TD	03/02/21	P04
Revision Details	By	Check	Date	Suffix

Purpose of issue

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Development Consent Order Number
TR010044

Project Title
A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS

Drawing Title
ENGINEERING SECTIONS
(PLAN AND PROFILES)
REGULATION 5(2)(O) & 6(2)
SHEET 27

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
----------------	-------------	----------------	----------------	------------------

Internal Project No.
60541541

Scale @ A1
1:2500

Suitability
D7

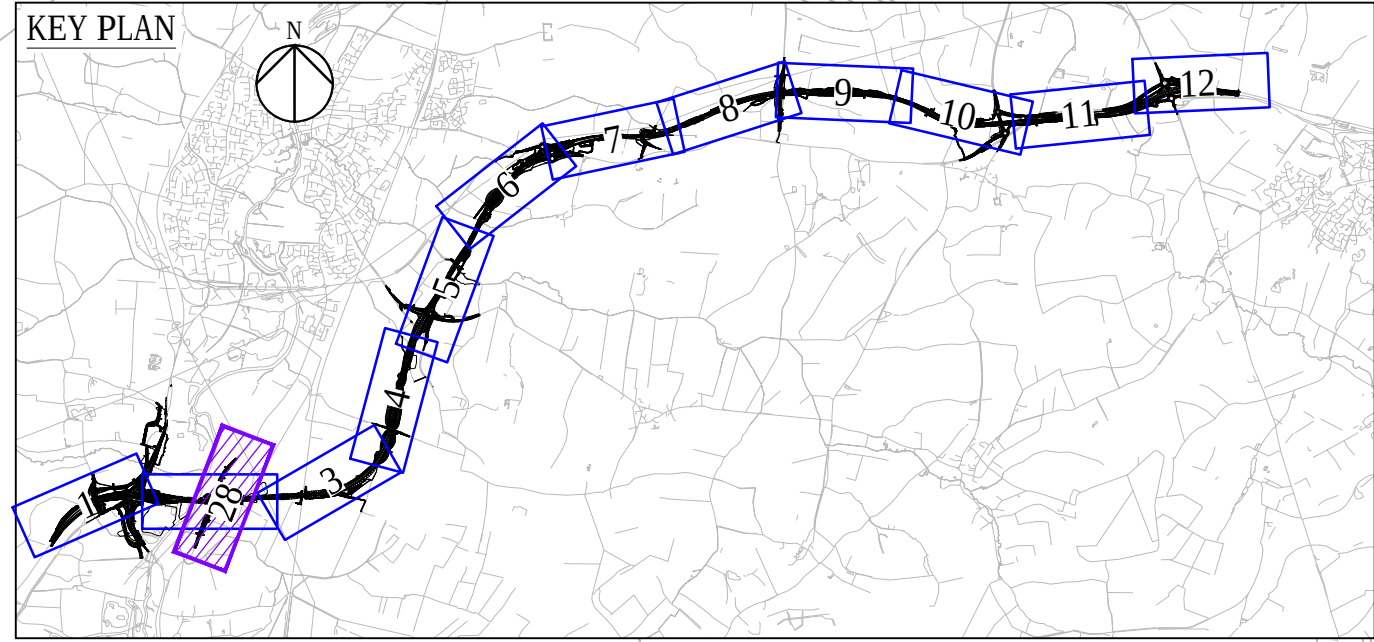
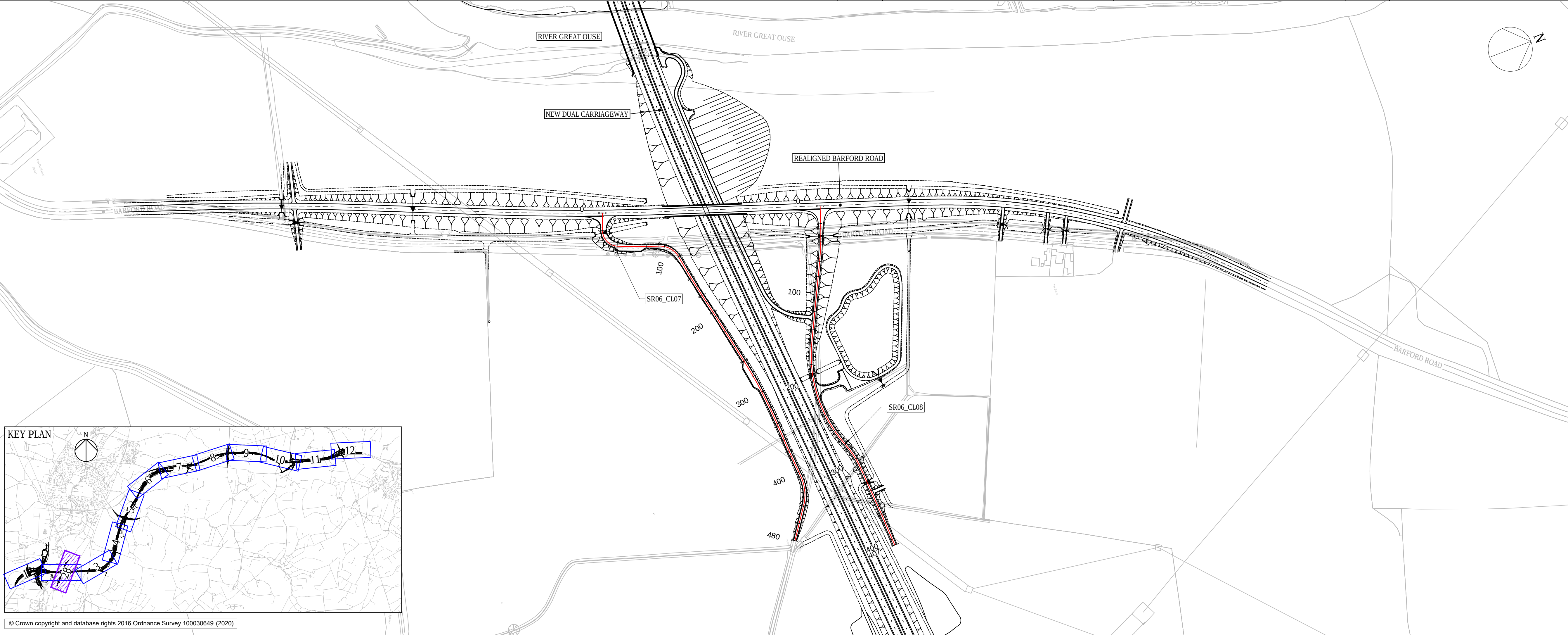
Zone
ZN1

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Drawing Number HE551495	Highways England PIN -ACM	I Originator -LSI	I Volume -DC-2427	Rev P04
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Location
ZN1_SW_Z_ZZ

I Type
I Role
I Number



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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT

Final for DCO Application	WV	TD	03/02/21
Revision Details	By	Date	Suffix
	Check		

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Development Consent Order Number
TR010044

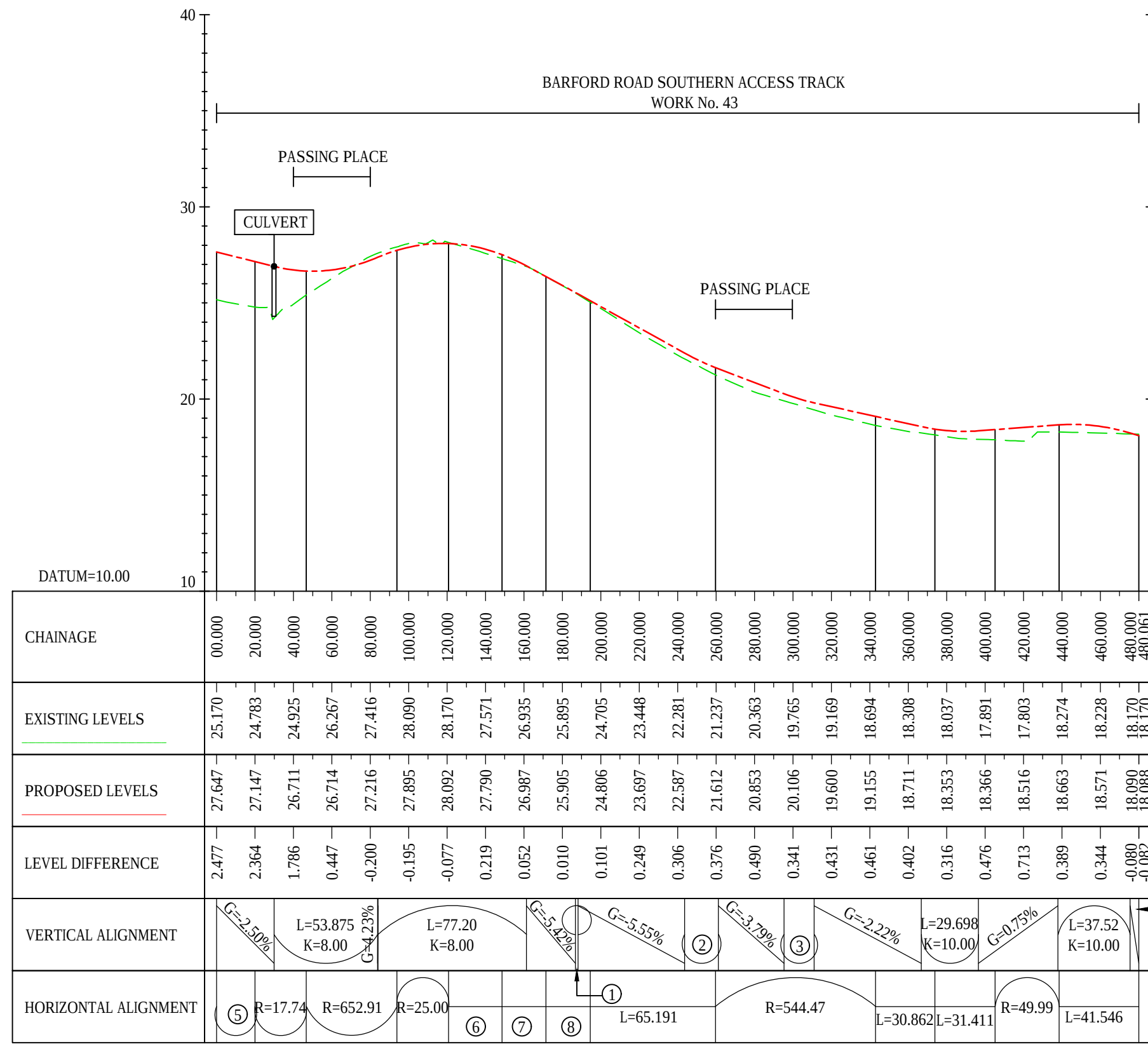
Project Title
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

Drawing Title
ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 28

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541	Suitability D7	Zone ZN1		
Scale @ A1 1:2500				

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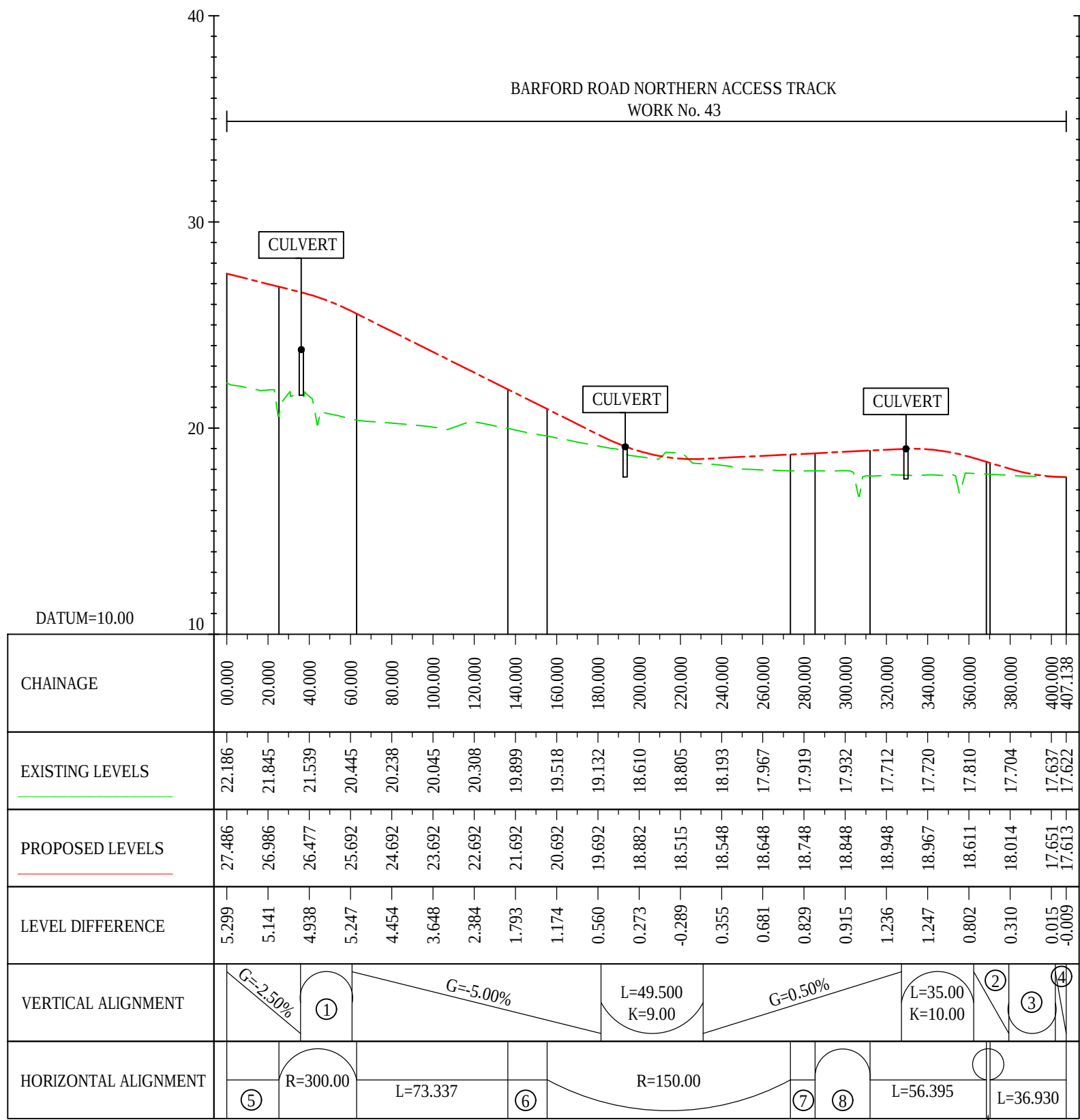
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Location	I Type	I Role	I Number



BARFORD ROAD SOUTHERN ACCESS TRACK
ALIGNMENT STRING NAME : SR06_CL07

LONGSECTION
SCALE: H 1:2500, V 1:250

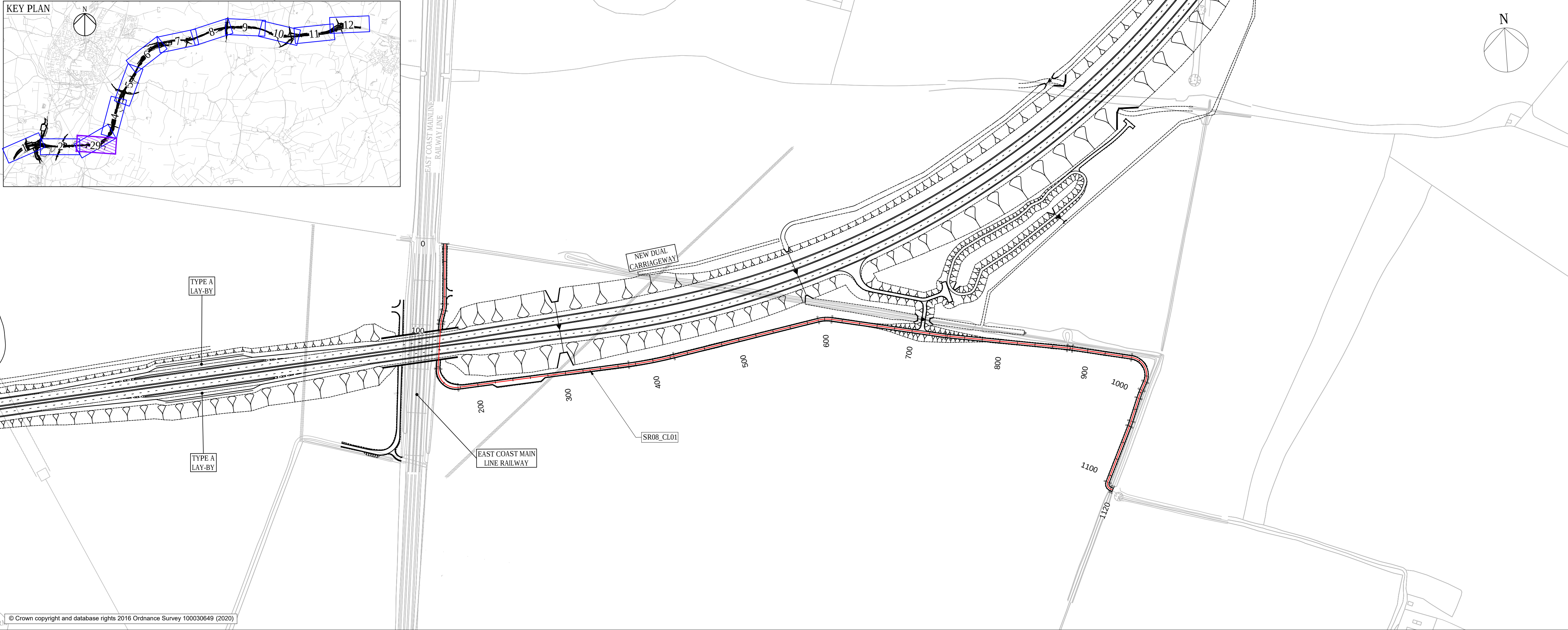
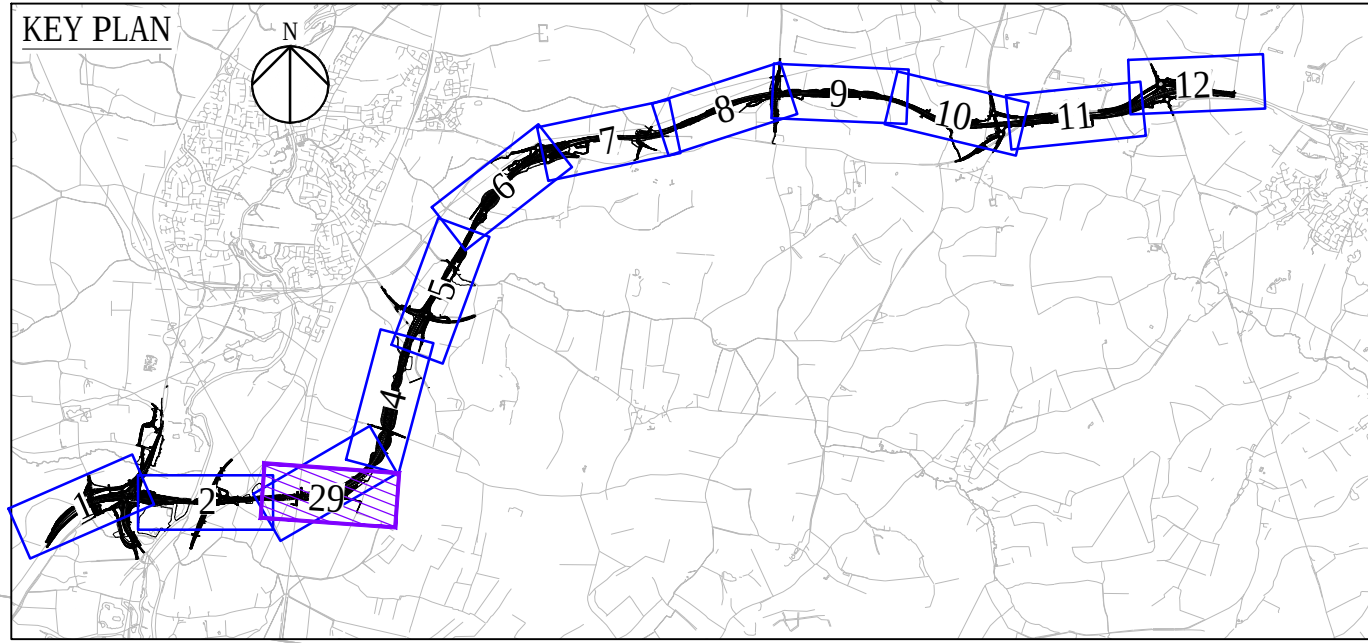
- ① K=10.00
- ② K=10.00
- ③ K=10.00
- ④ G=-3.01%
- ⑤ R=2620514.16
- ⑥ L=27.831
- ⑦ L=22.799
- ⑧ L=23.072



BARFORD ROAD NORTHERN ACCESS TRACK
ALIGNMENT STRING NAME : SR06_CL08

LONGSECTION
SCALE: H 1:2500, V 1:250

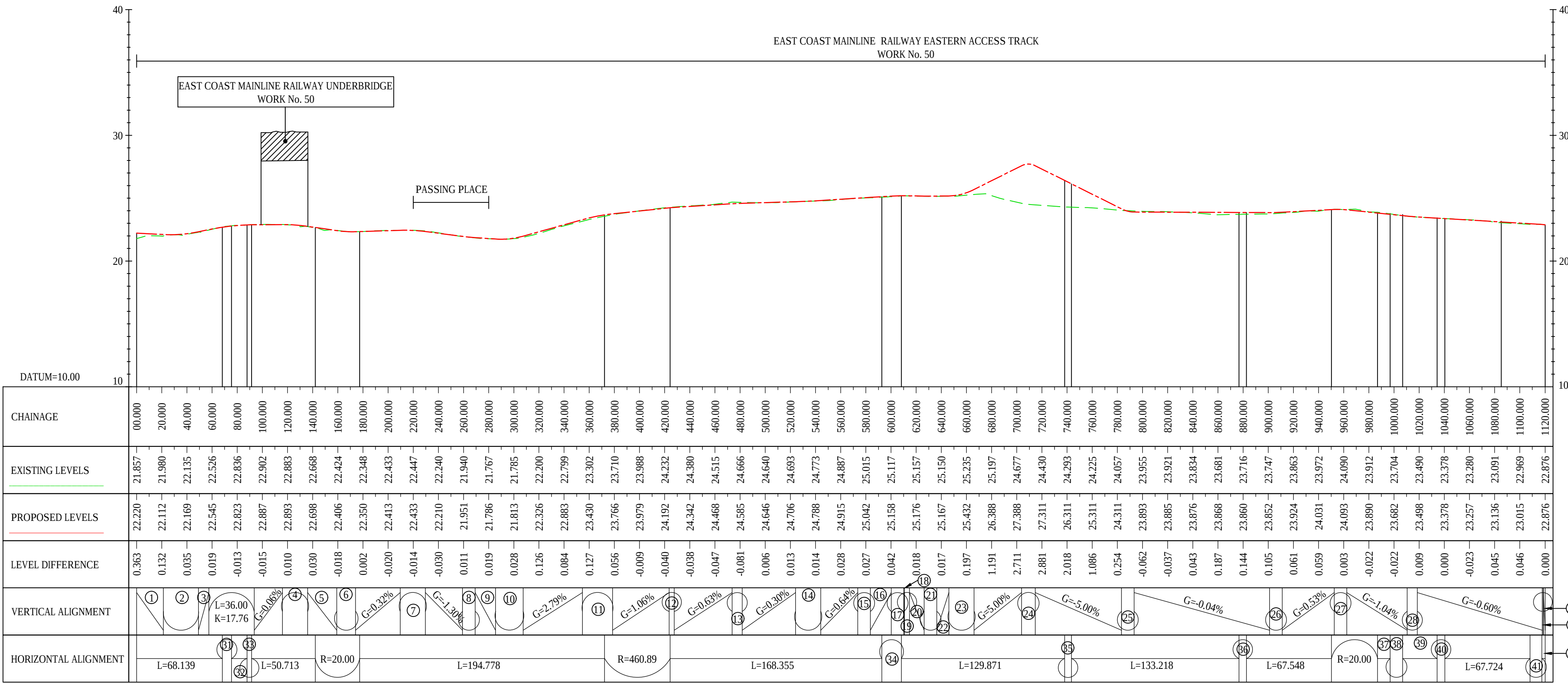
- ① K=10.00
- ② G=-3.00%
- ③ K=9.00
- ④ G=-0.50%
- ⑤ L=25.351
- ⑥ L=19.108
- ⑦ L=11.922
- ⑧ R=100.00
- ⑨ R=100.00



- NOTES
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT

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EAST COAST MAINLINE RAILWAY EASTERN ACCESS TRACK
ALIGNMENT STRING NAME : SR08_CL01

LONGSECTION
SCALE: H 1:2500, V 1:250

- | | | | | | | |
|------------|------------|------------|------------|-----------|------------|------------|
| ① G=-0.54% | ⑦ K=12.38 | ⑬ K=24.27 | ⑲ K=20.31 | ⑲ K=2.02 | ⑲ K=31.84 | ⑲ L=10.032 |
| ② K=10.65 | ⑧ K=16.55 | ⑭ K=58.49 | ⑲ G=-0.19% | ⑲ K=17.39 | ⑲ L=12.32 | ⑲ R=100.00 |
| ③ G=2.09% | ⑨ G=-0.70% | ⑮ K=164.36 | ⑲ K=30.49 | ⑲ K=6.36 | ⑲ L=20.00 | ⑲ L=27.391 |
| ④ K=13.13 | ⑩ K=6.32 | ⑮ G=0.58% | ⑲ G=0.14% | ⑲ K=18.54 | ⑲ R=40.00 | ⑲ R=100.00 |
| ⑤ G=-1.46% | ⑪ K=13.94 | ⑮ K=17.55 | ⑲ K=4.12 | ⑲ K=1.00 | ⑲ R=120.00 | ⑲ R=6.000 |
| ⑥ K=8.44 | ⑫ K=9.20 | ⑮ G=0.01% | ⑲ K=1.10 | ⑲ G=1.44% | ⑲ R=120.00 | ⑲ L=2.635 |

Final for DCO Application	WV	TD	03/02/21
Revision Details	By	Check	Date

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW



Development Consent Order Number
TR010044

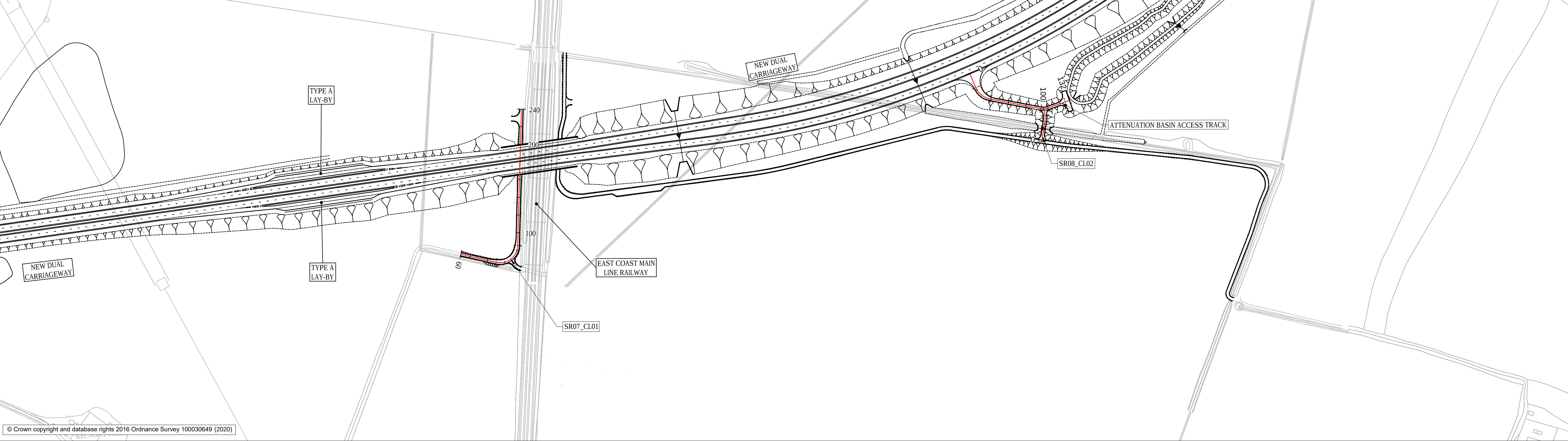
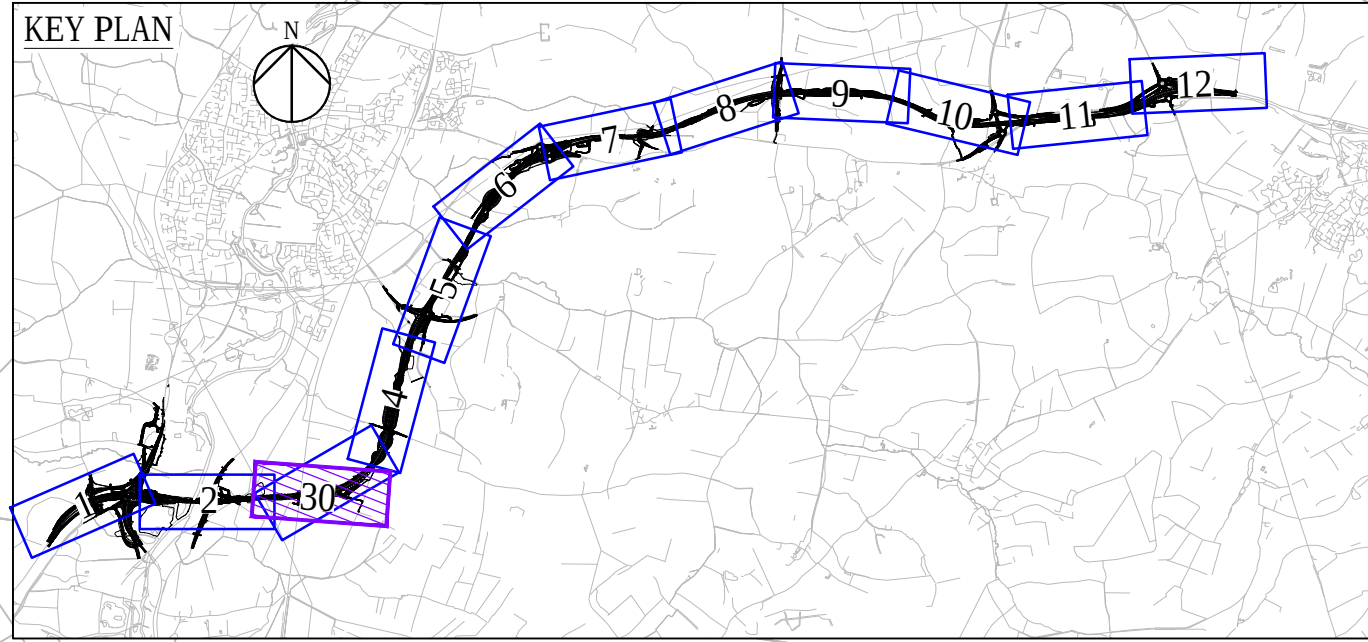
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 29

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541	Suitability D7	Scale @ A1 1:2500	Zone ZN2	

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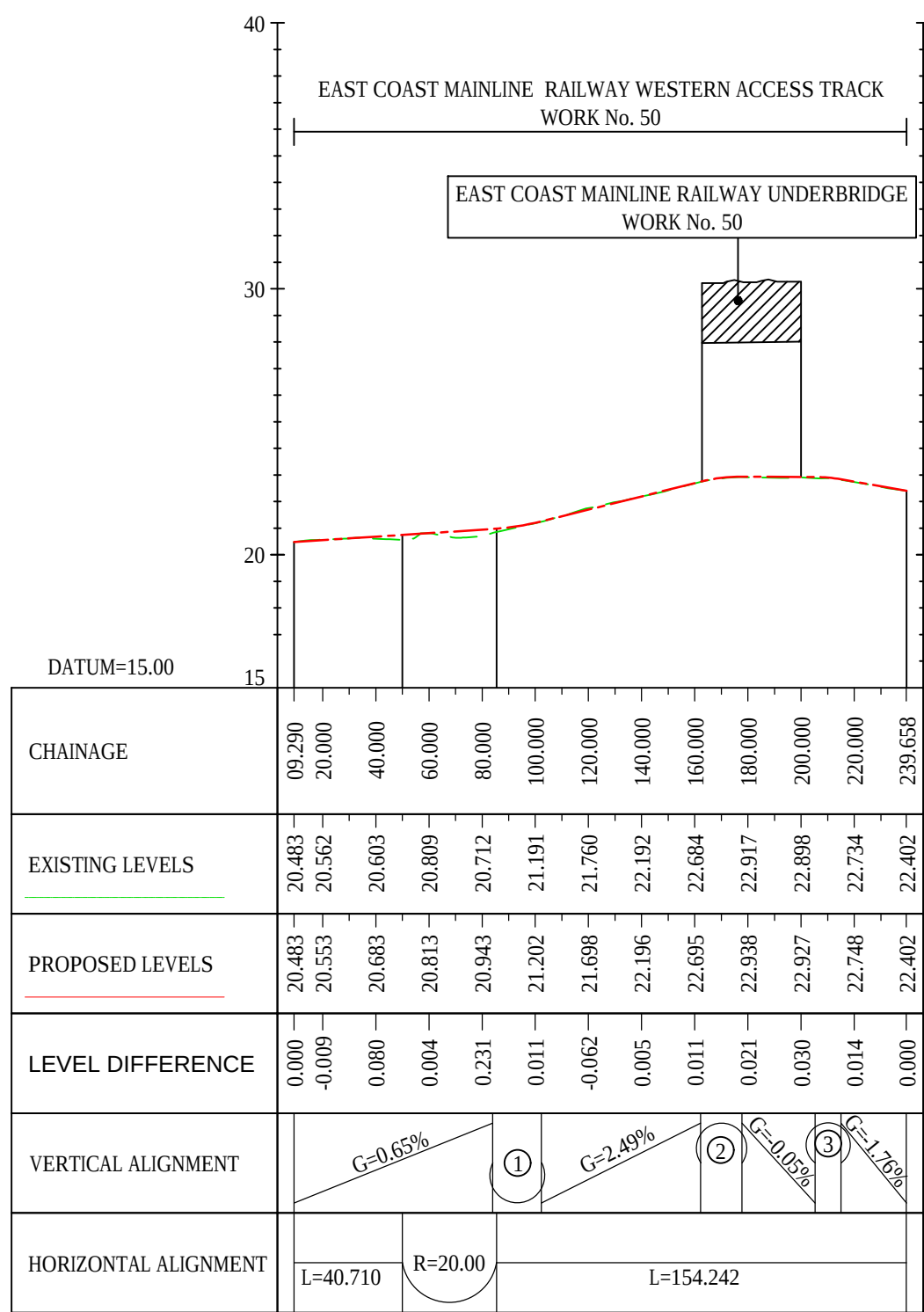
Drawing Number HE551495 -ACM	1 Originator -LSI	1 Volume -DC-2429	Rev P04
Location ZN2_SW_Z_ZZ	1 Type -DR	1 Role -DC	1 Number 2429



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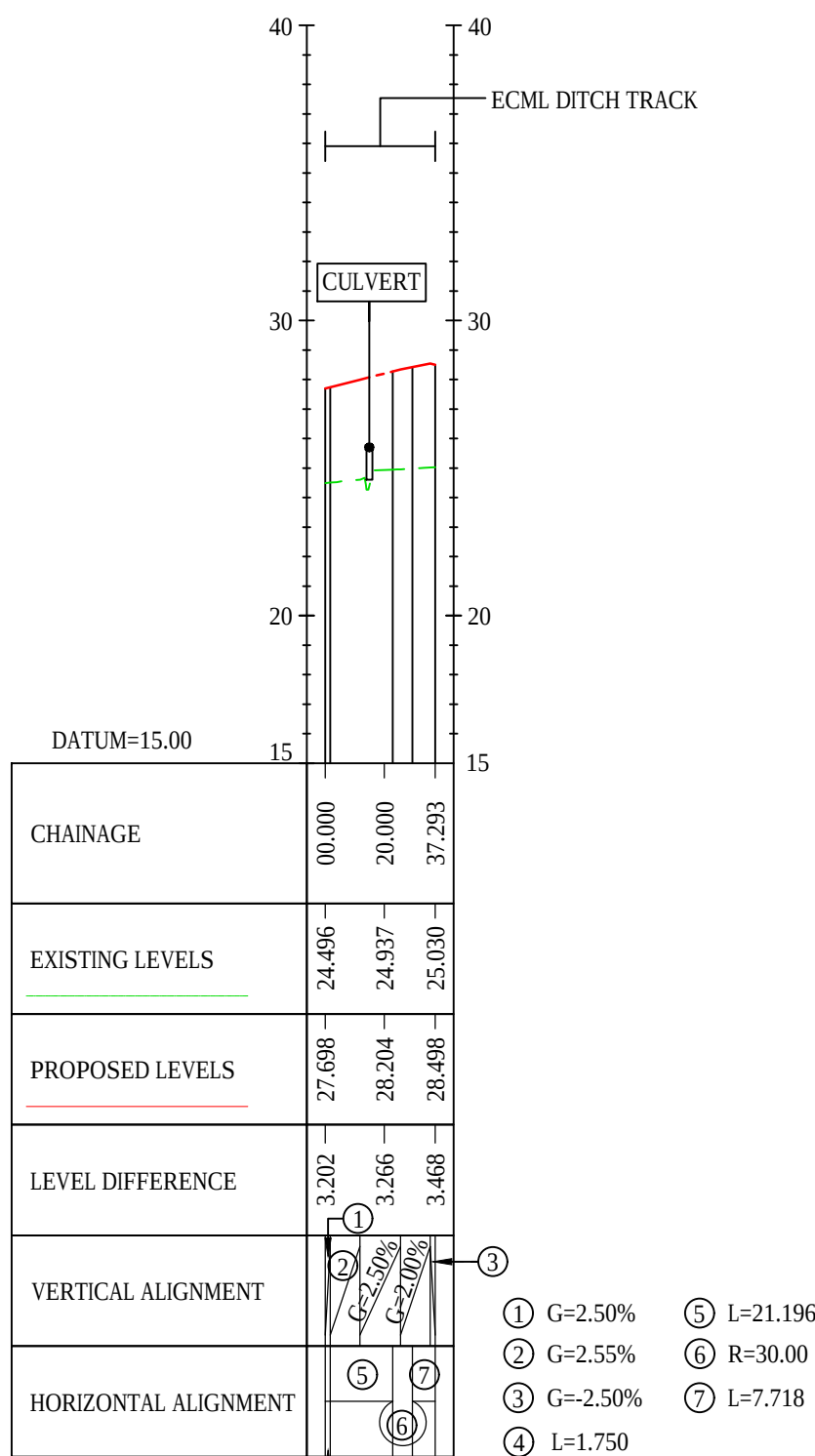
- NOTES
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



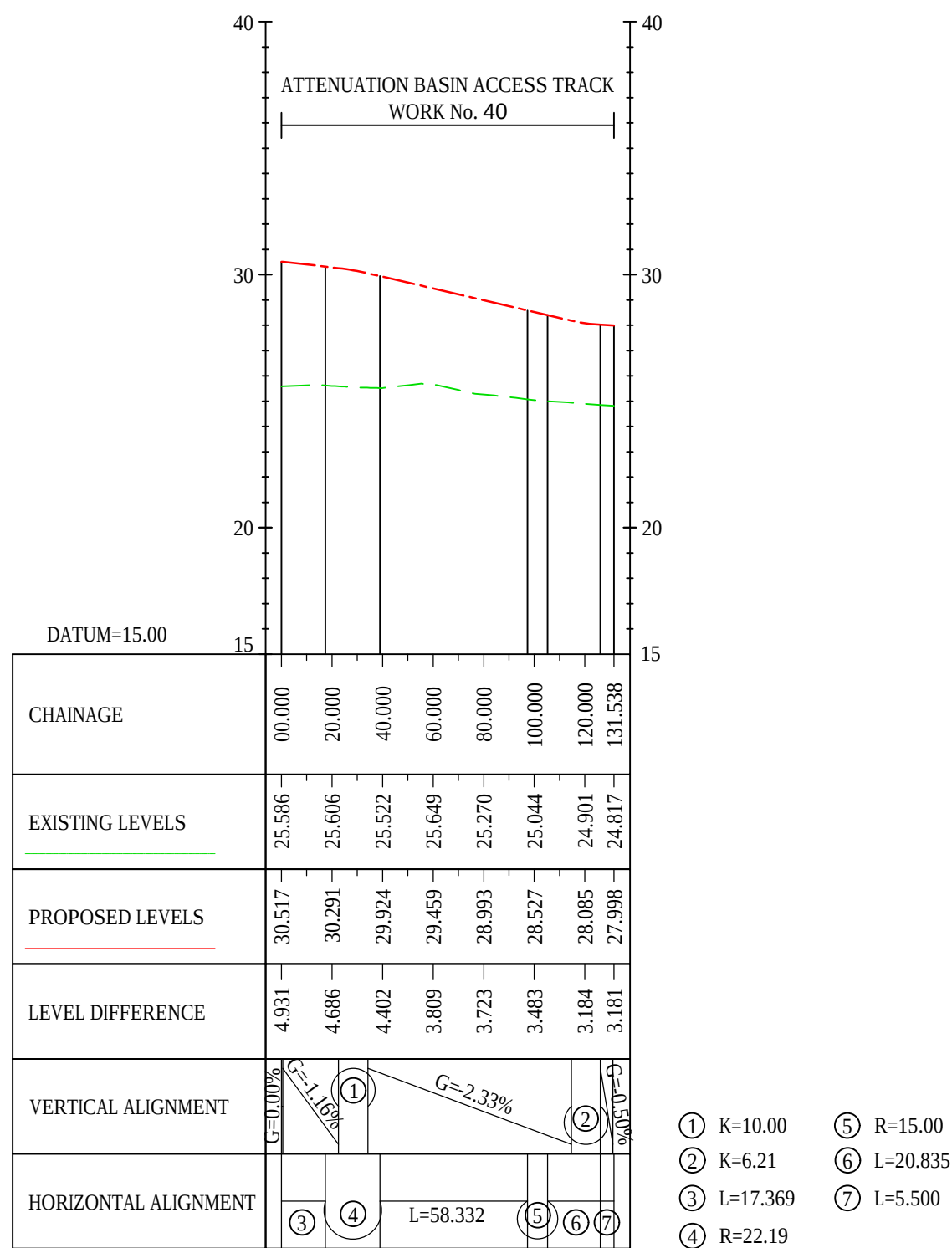
EAST COAST MAINLINE RAILWAY WESTERN ACCESS TRACK
ALIGNMENT STRING NAME: SR07_CL01

LONGSECTION
SCALE: H 1:2500, V 1:250



ECML DITCH TRACK
ALIGNMENT STRING NAME: SR08_CL02

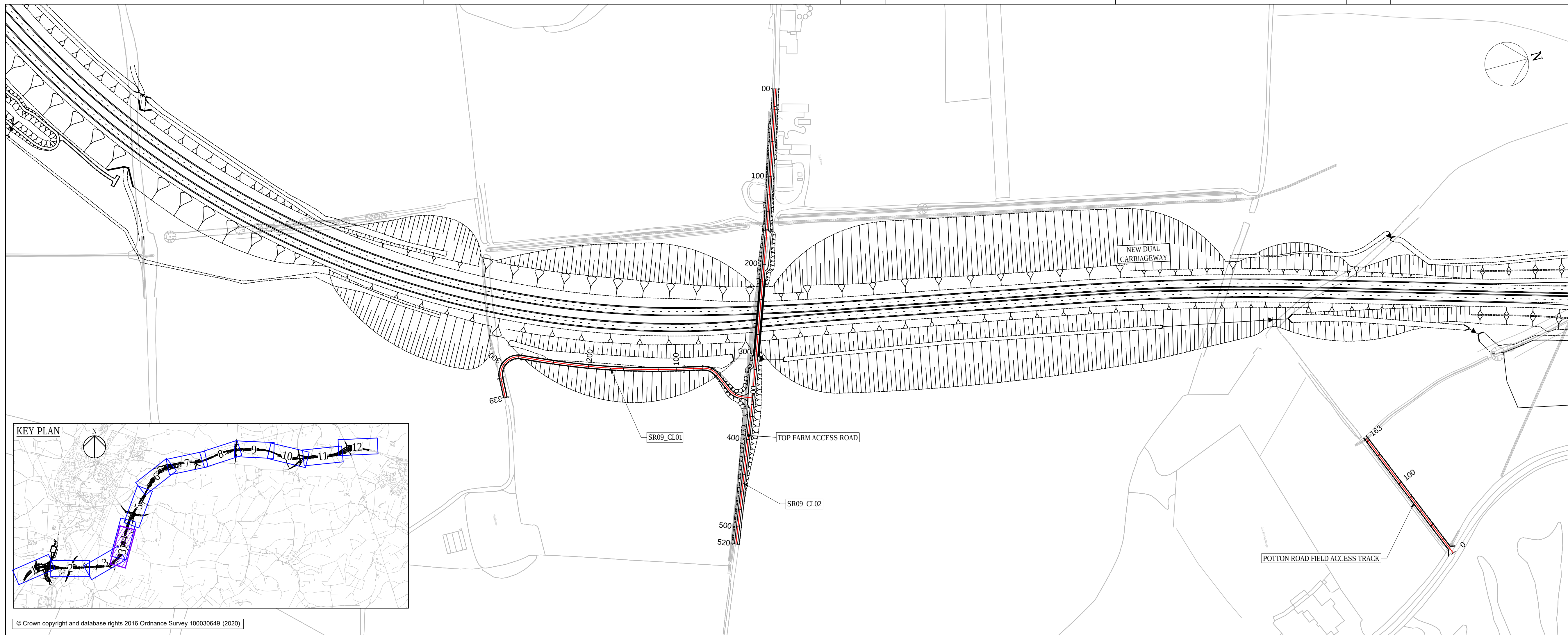
LONGSECTION
SCALE: H 1:2500, V 1:250



ATTENUATION BASIN ACCESS TRACK

LONGSECTION
SCALE: H 1:2500, V 1:250

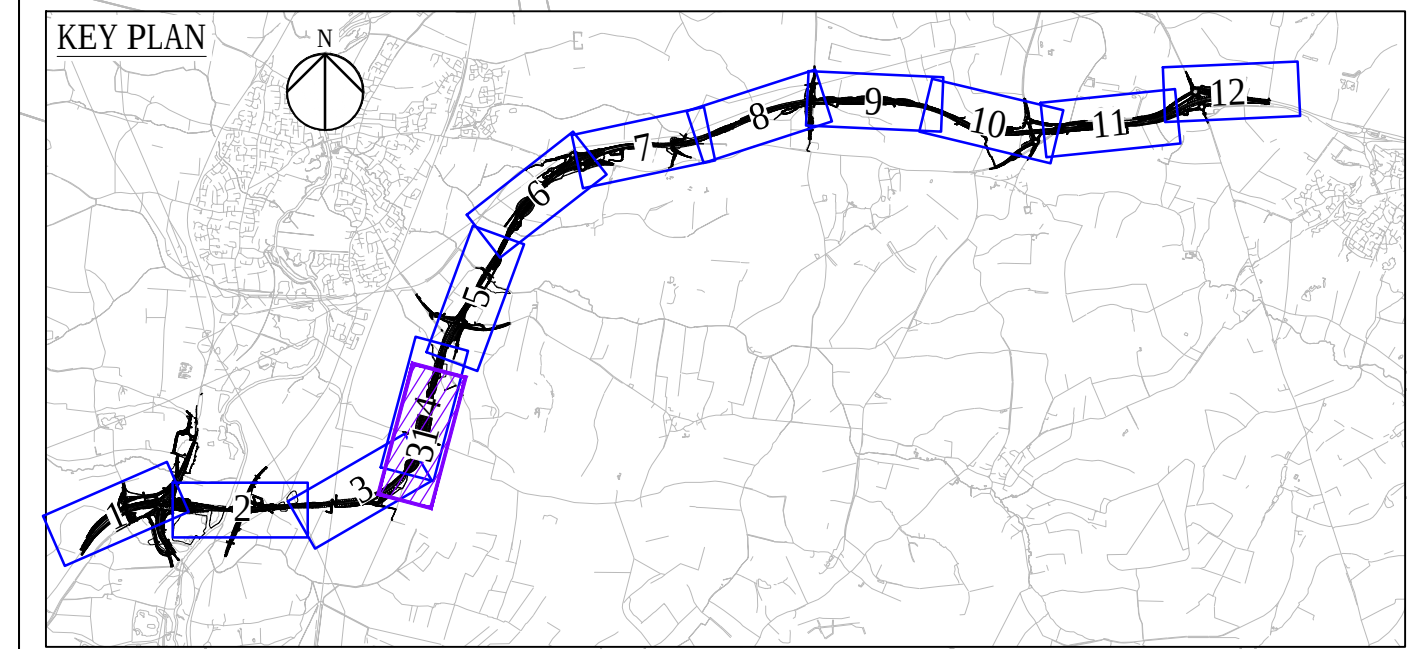
Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client Highways England Woodlands Manton Lane Manton Industrial Estate Bedford MK41 7LW					
Development Consent Order Number TR010044					
Project Title A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 30					
Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21	
Internal Project No. 60541541		Suitability D7			
Scale @ A1 1:2500		Zone ZN2			
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Drawing Number HE551495 -ACM		1 Originator -LSI		1 Volume -	
Location ZN2_SW_Z_ZZ		1 Type -DR-DC-2430		1 Number P04	



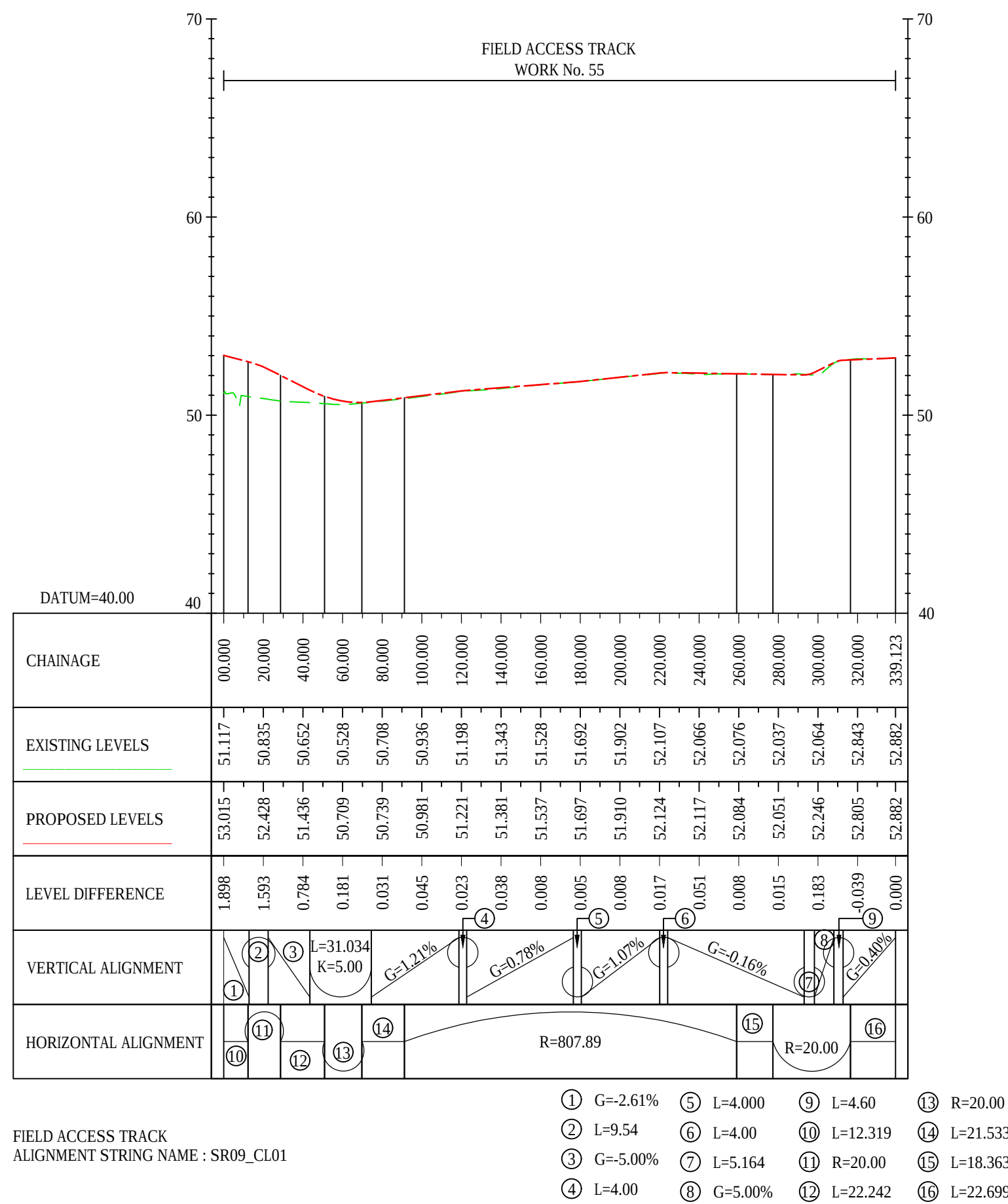
- NOTES**
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KEY

- CENTRELINE OF NEW ROAD
 - - - FINISHED ROAD LEVEL AT CENTRELLINE OF NEW ROAD
 - - - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 = = BRIDGE
) — (CULVERT

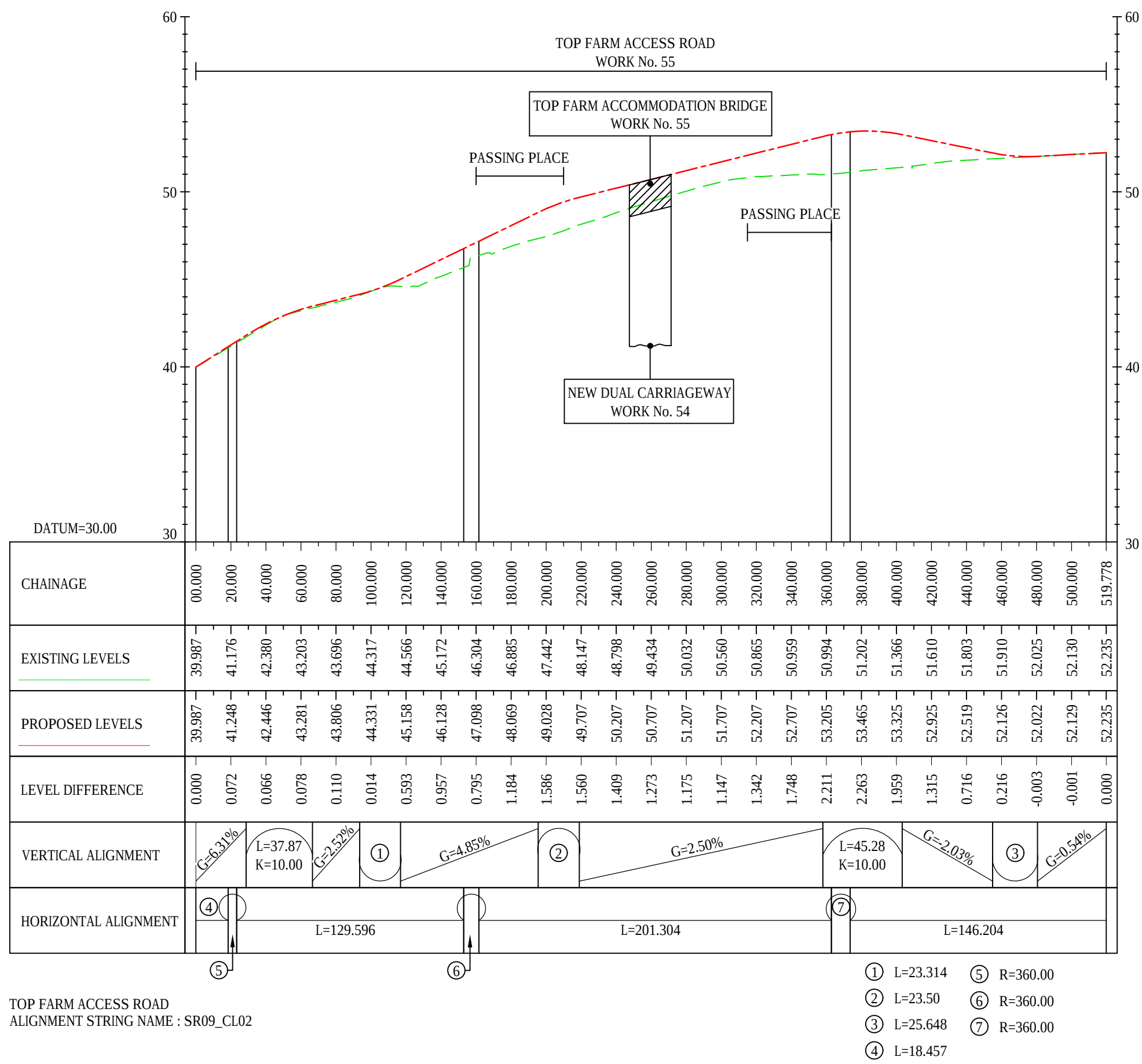


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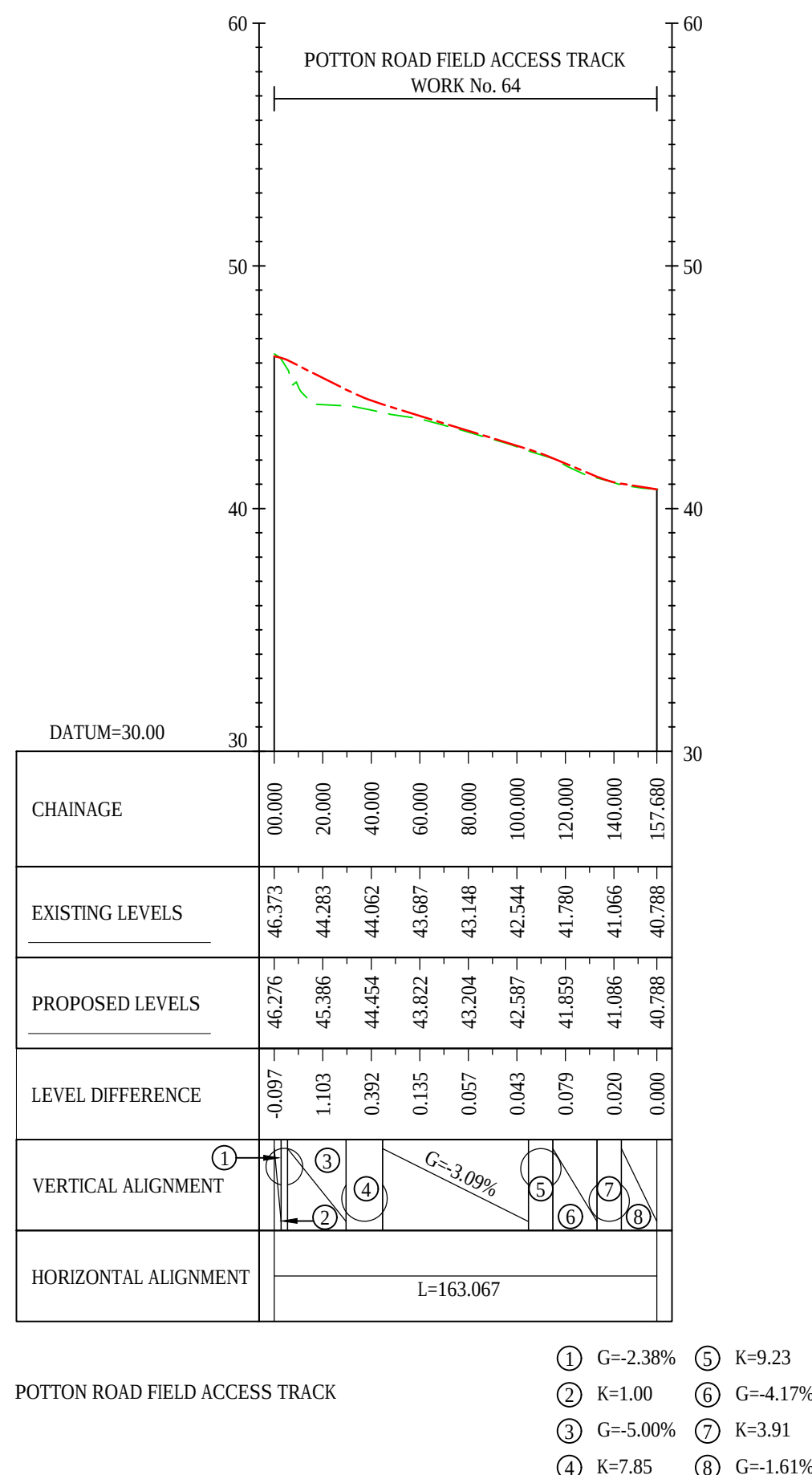
FIELD ACCESS TRACK
ALIGNMENT STRING NAME : SR09_CL01

LONGSECTION
SCALE: H 1:2500,V 1:250



TOP FARM ACCESS ROAD
ALIGNMENT STRING NAME : SR09_CL02

LONGSECTION
SCALE: H 1:2500,V 1:250



POTTON ROAD FIELD ACCESS TRACK

LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application	WV TD	03/02/21	P04
Revision Details	By Check	Date	Suffix

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW

Working on behalf of



Development Consent Order Number

TR010044

Project Title

A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS

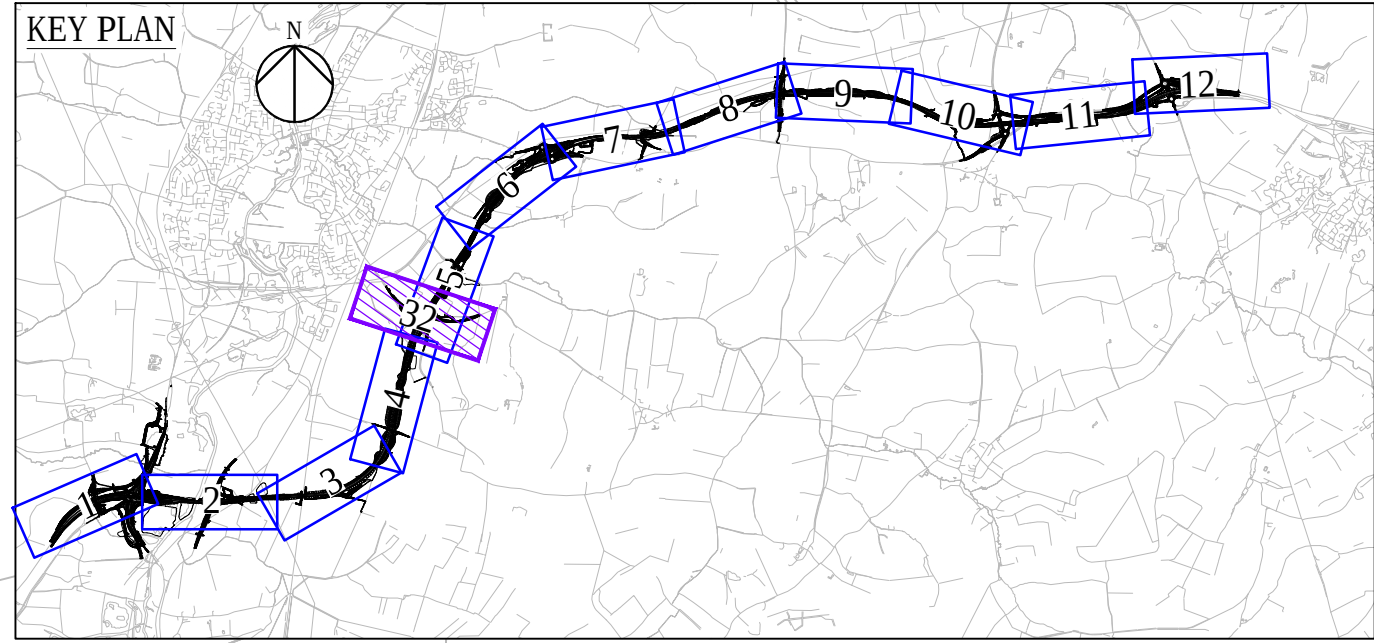
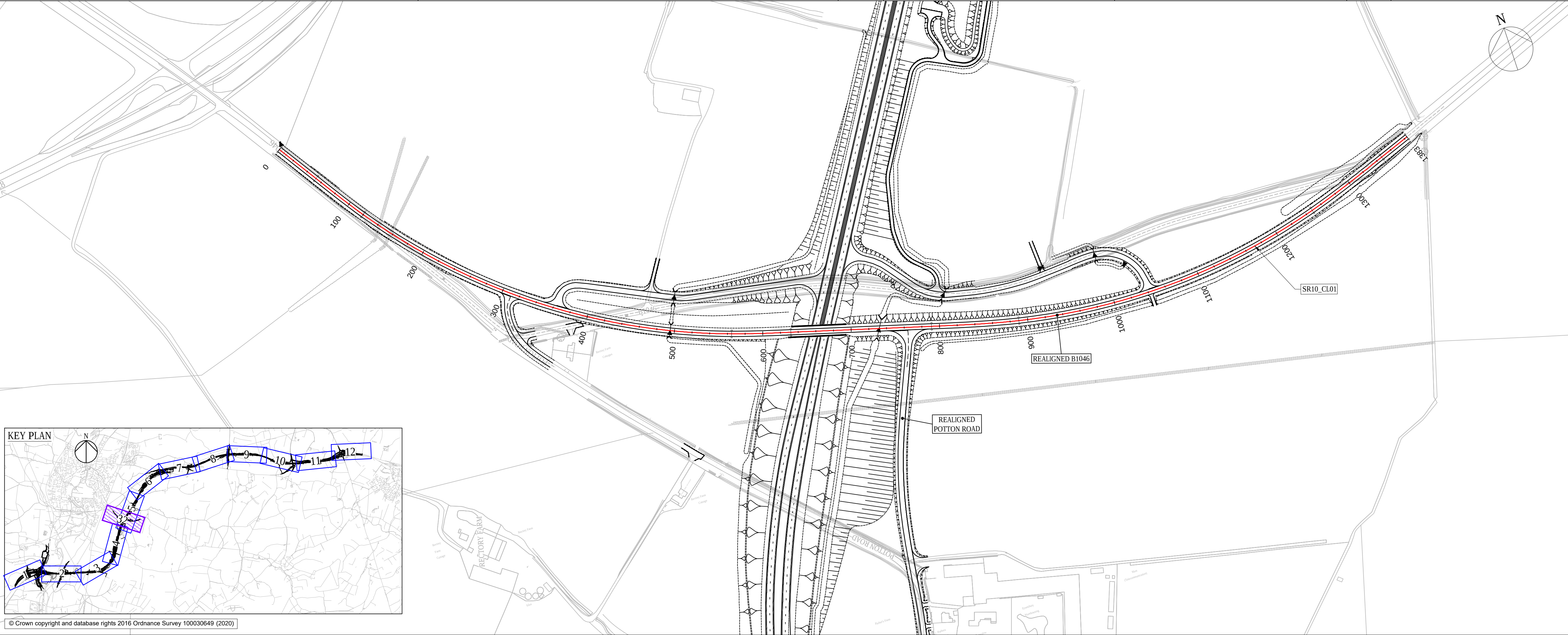
Drawing Title

ENGINEERING SECTIONS
(PLAN AND PROFILES)
REGULATION 5(2)(O) & 6(2)
SHEET 31

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 0541541			Suitability D7	
Scale @ A1 1:2500			Zone ZN2	

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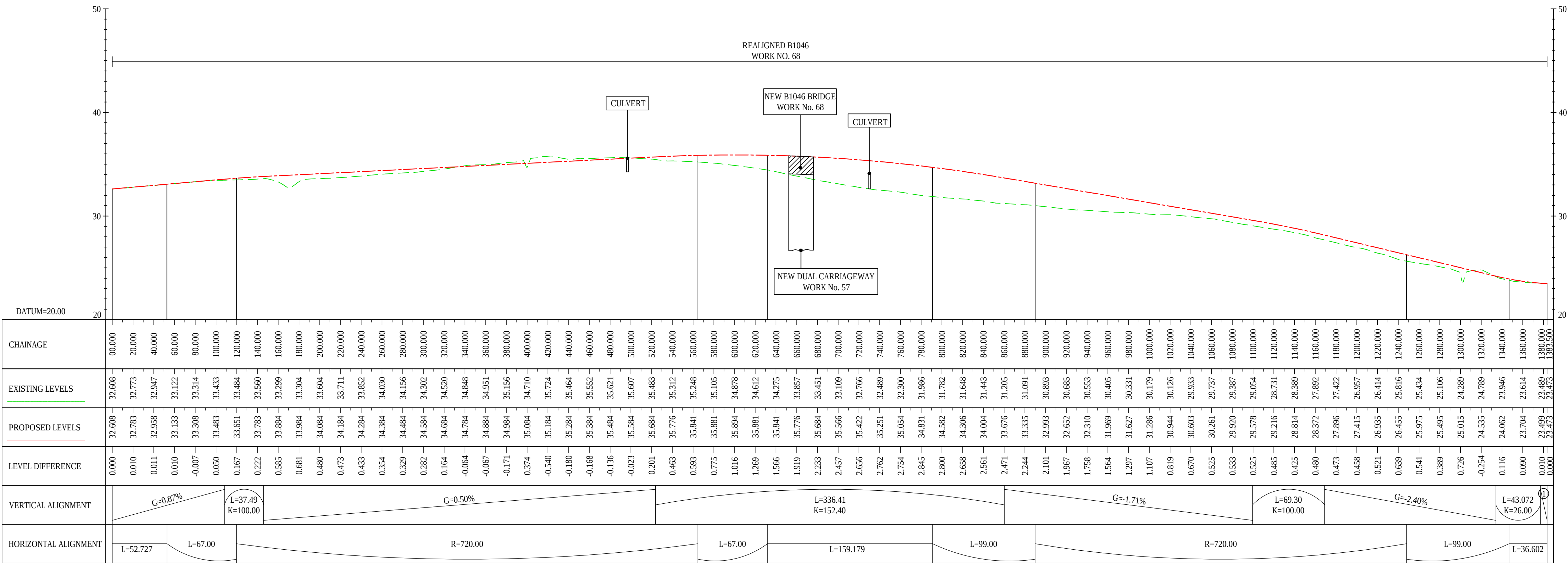
Drawing Number			Rev	
Highways England PIN			I Originator	I Volume
HE551495			-ACM	-LSI -
Z_N2_Z_SW_Z_ZZ			-DR-DC-2431	P04
Location			I Type	I Role I Number



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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



REALIGNED B1046
ALIGNMENT STRING NAME : SR10_CL01

LONGSECTION
SCALE: H 1:2500,V 1:250

Drawing Title

**ENGINEERING SECTIONS
(PLAN AND PROFILES)
REGULATION 5(2)(O) & 6(2)
SHEET 32**

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
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Internal Project No.
60541541

Scale @ A1
1:2500

Suitability
D7

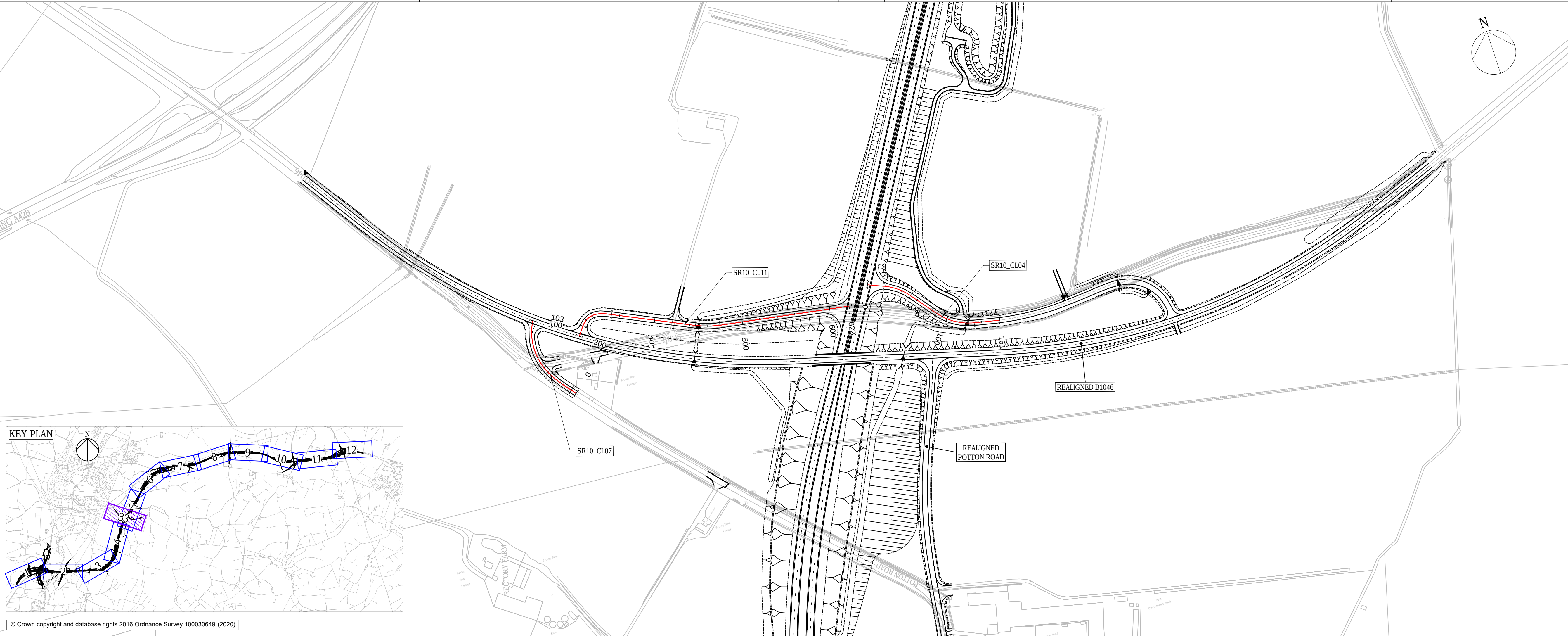
Zone
ZN2

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Drawing Number HE551495	1 Originator -ACM	1 Volume -LSI	Rev P04
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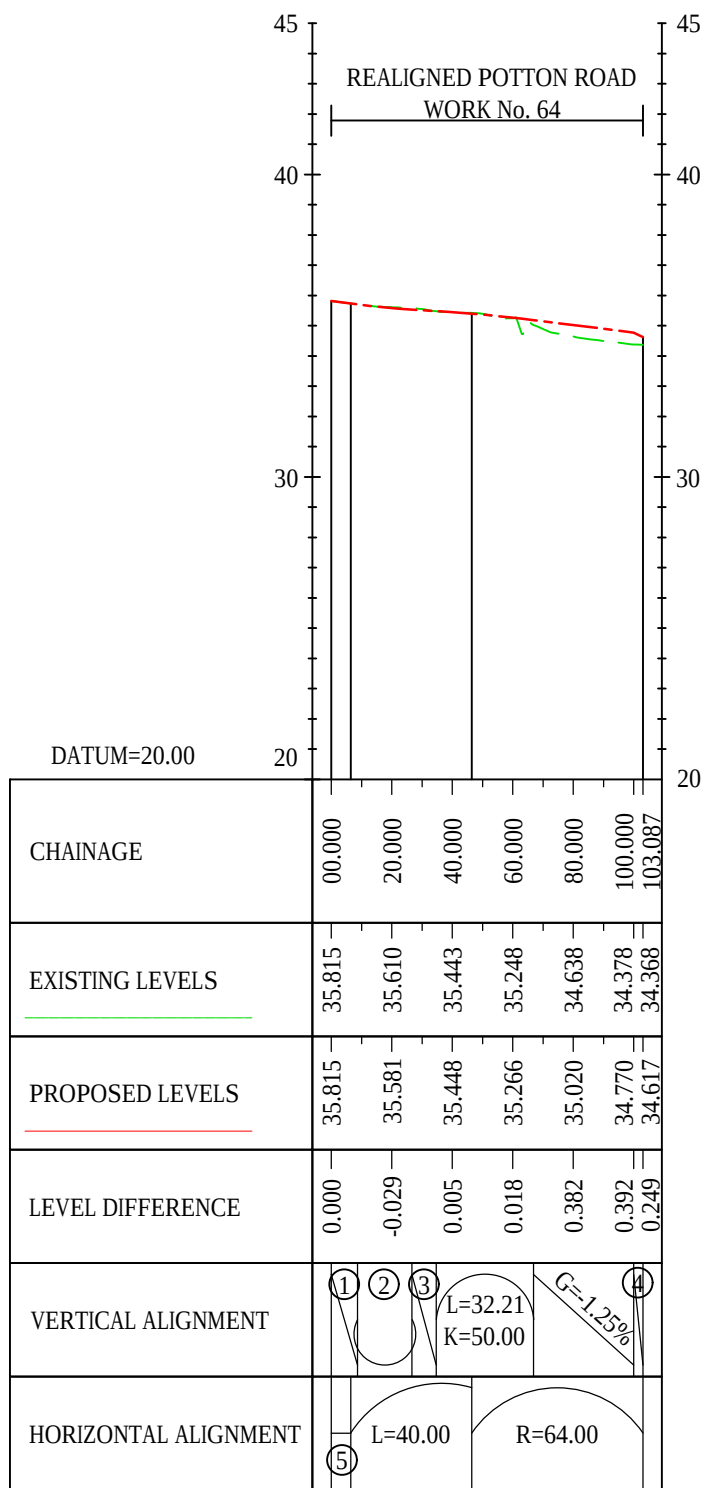
Location
ZN2_SW_Z_ZZ -DR-DC-2432

1 Type 1 Role 1 Number



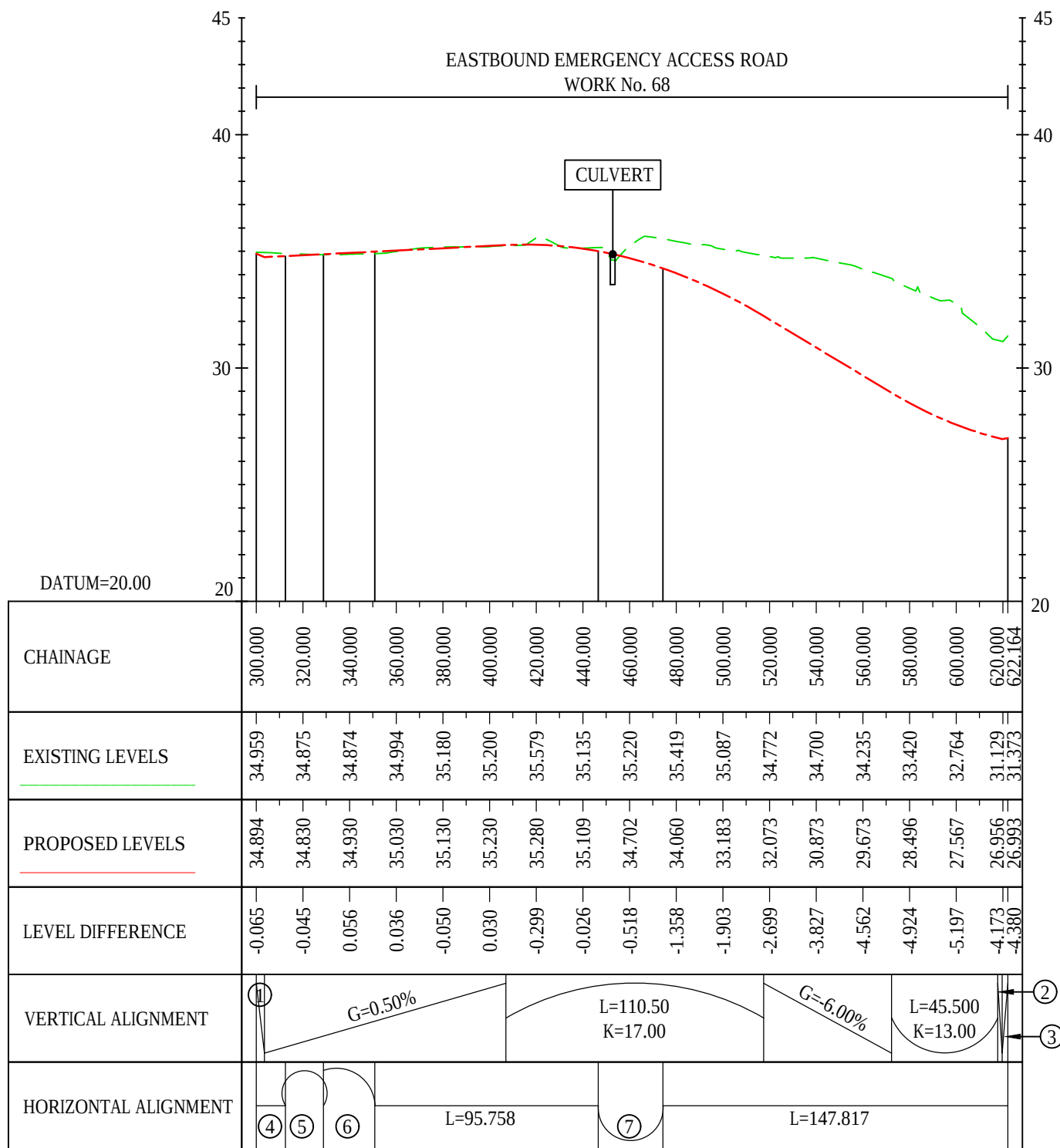
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



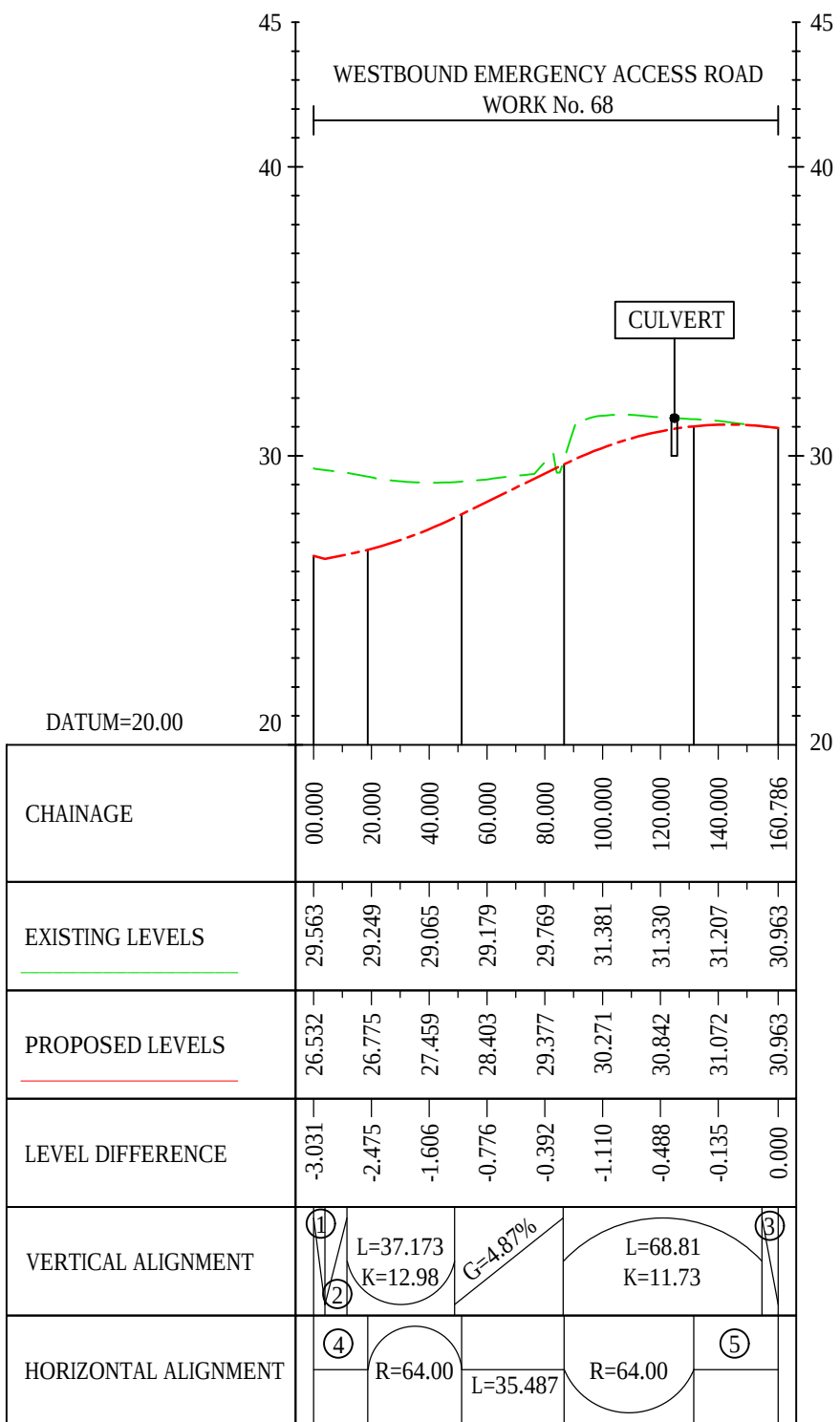
REALIGNED POTTON ROAD
ALIGNMENT STRING NAME : SR10_CL07

LONGSECTION
SCALE: H 1:2500,V 1:250



EASTBOUND EMERGENCY ACCESS ROAD
ALIGNMENT STRING NAME : SR10_CL11

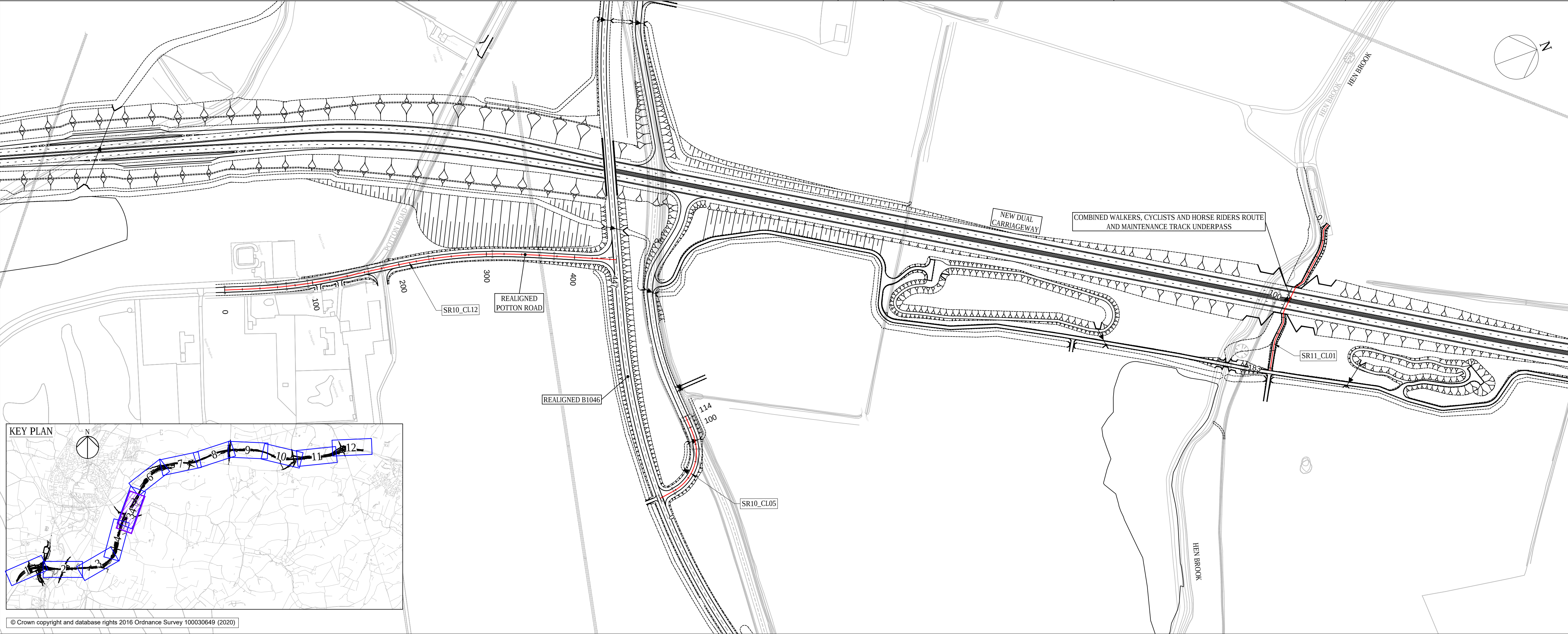
LONGSECTION
SCALE: H 1:2500,V 1:250



WESTBOUND EMERGENCY ACCESS ROAD
ALIGNMENT STRING NAME : SR10_CL04

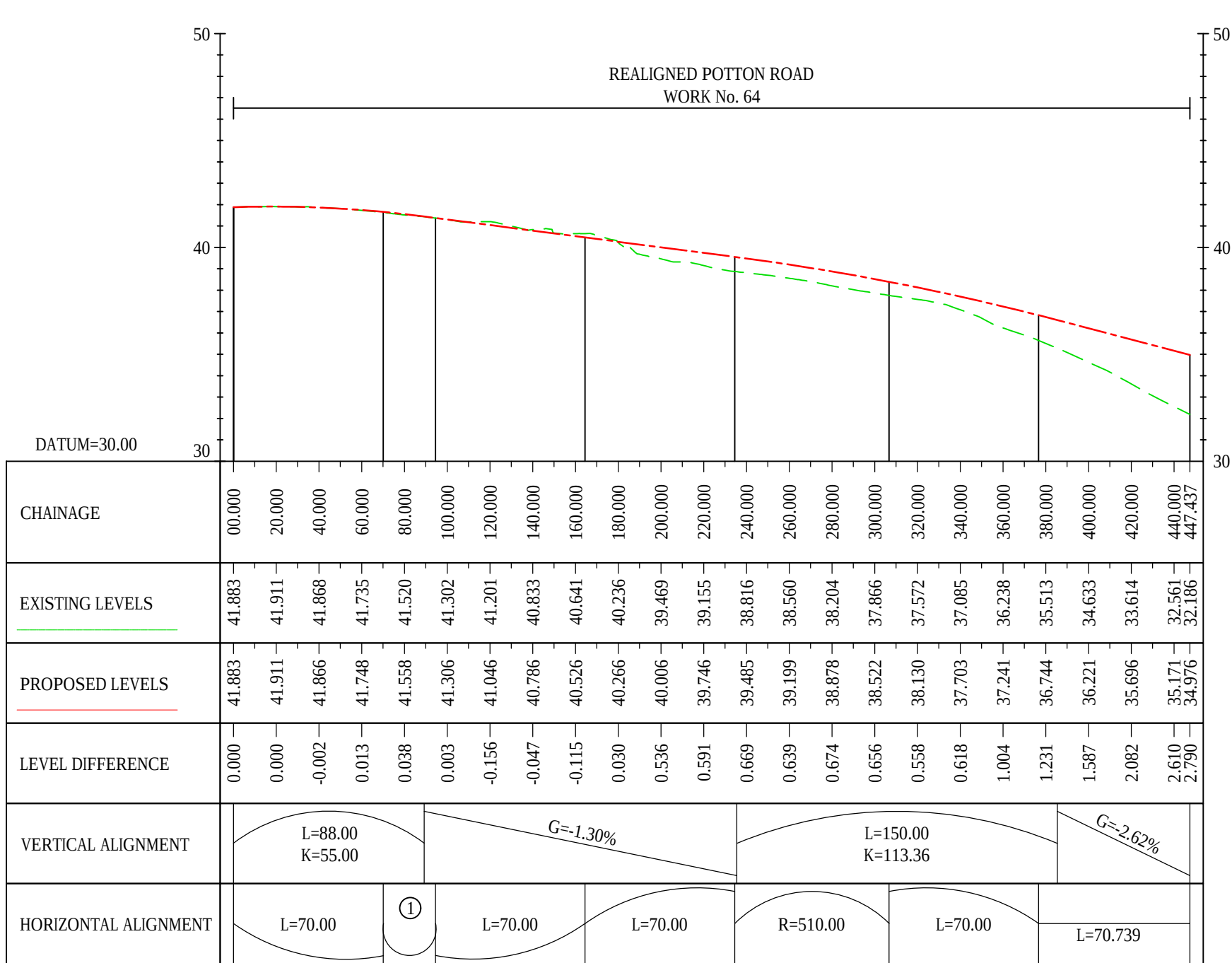
LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application		WV	TD	03/02/21	P04
Revision Details		By	Check	Date	Suffix
Purpose of issue					
DCO APPLICATION					
Client		Working on behalf of			
Highways England		highways england			
Woodlands					
Manton Lane					
Manton Industrial Estate					
Bedford					
MK41 7LW					
Development Consent Order Number					
TR010044					
Project Title					
A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENTS					
Drawing Title					
ENGINEERING SECTIONS (PLAN AND PROFILES) REGULATION 5(2)(O) & 6(2) SHEET 33					
Designed	Drawn	Checked	Approved	Date	
GH	WV	JMW	TD	03/02/21	
Internal Project No.		Suitability			
60541541		D7			
Scale @ A1		Zone			
1:2500		ZN2			
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Drawing Number		1 Originator		1 Volume	
HE551495		-ACM		-LSI	
ZN2_SW_Z_ZZ		-DR		-DC-2433	
Location		1 Type		1 Role	
				P04	



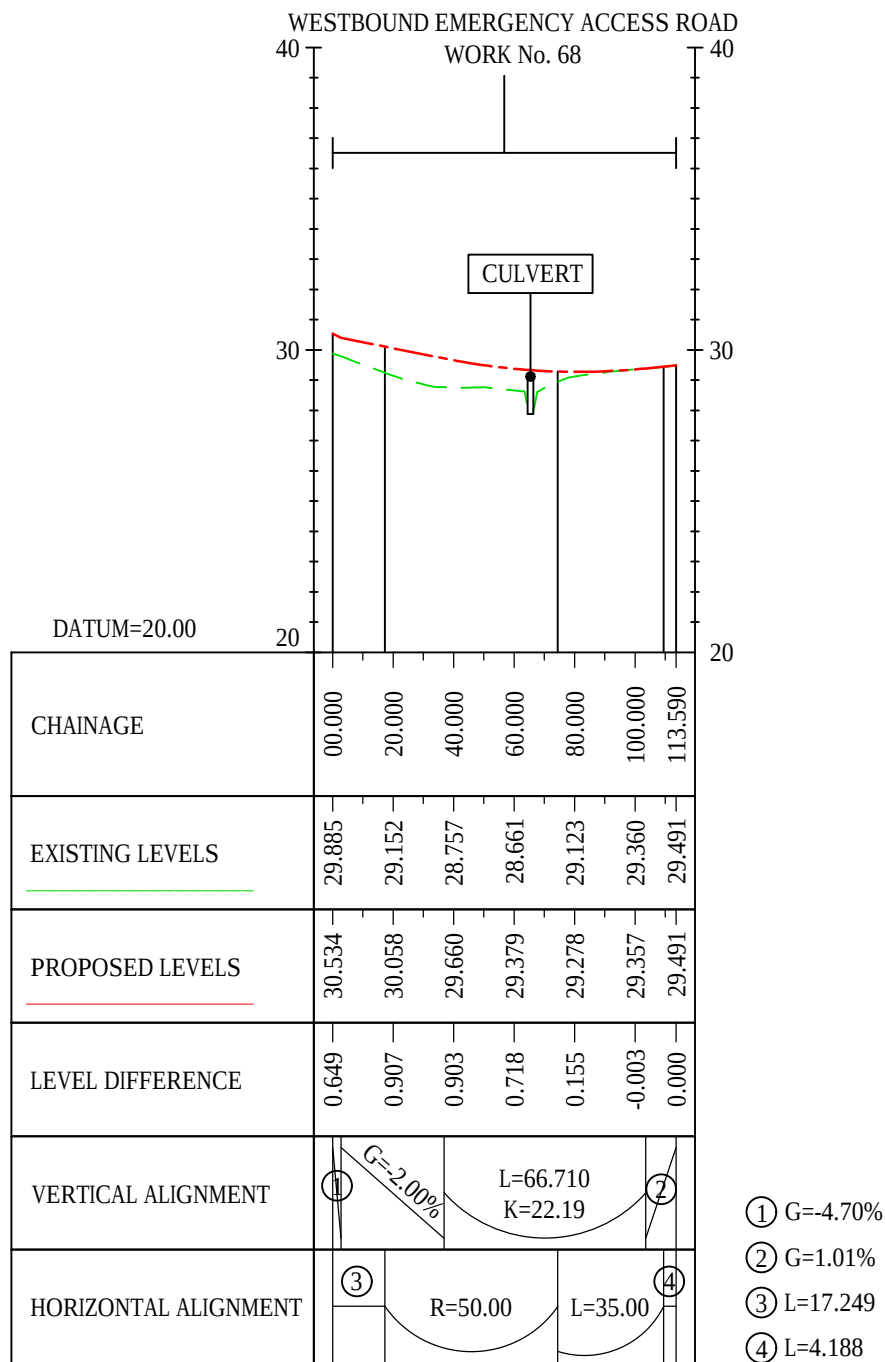
- NOTES
- DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
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 - THE DESIGN SHOWN ON THE ENGINEERING SECTION DRAWINGS IS ILLUSTRATIVE AND WILL BE SUBJECT TO DETAILED DESIGN DEVELOPMENT. ANY CHANGES WILL BE LIMITED TO BEING WITHIN THE ORDER LIMITS AND ANY OTHER CONSTRAINTS INCLUDED IN THE DEVELOPMENT CONSENT ORDER [TR01044/APP/3.1].
 - WORK NO. REFERENCES ARE DESCRIBED IN SCHEDULE 1 (AUTHORISED DEVELOPMENT) TO THE DEVELOPMENT CONSENT ORDER [TR01044/APP/3.1].
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- KEY
- CENTRELINE OF NEW ROAD
 - FINISHED ROAD LEVEL AT CENTRELINE OF NEW ROAD
 - TOPOGRAPHICAL SURVEY (EXISTING GROUND)
 - BRIDGE
 - CULVERT



REALIGNED POTTON ROAD
ALIGNMENT STRING NAME : SR10_CL12

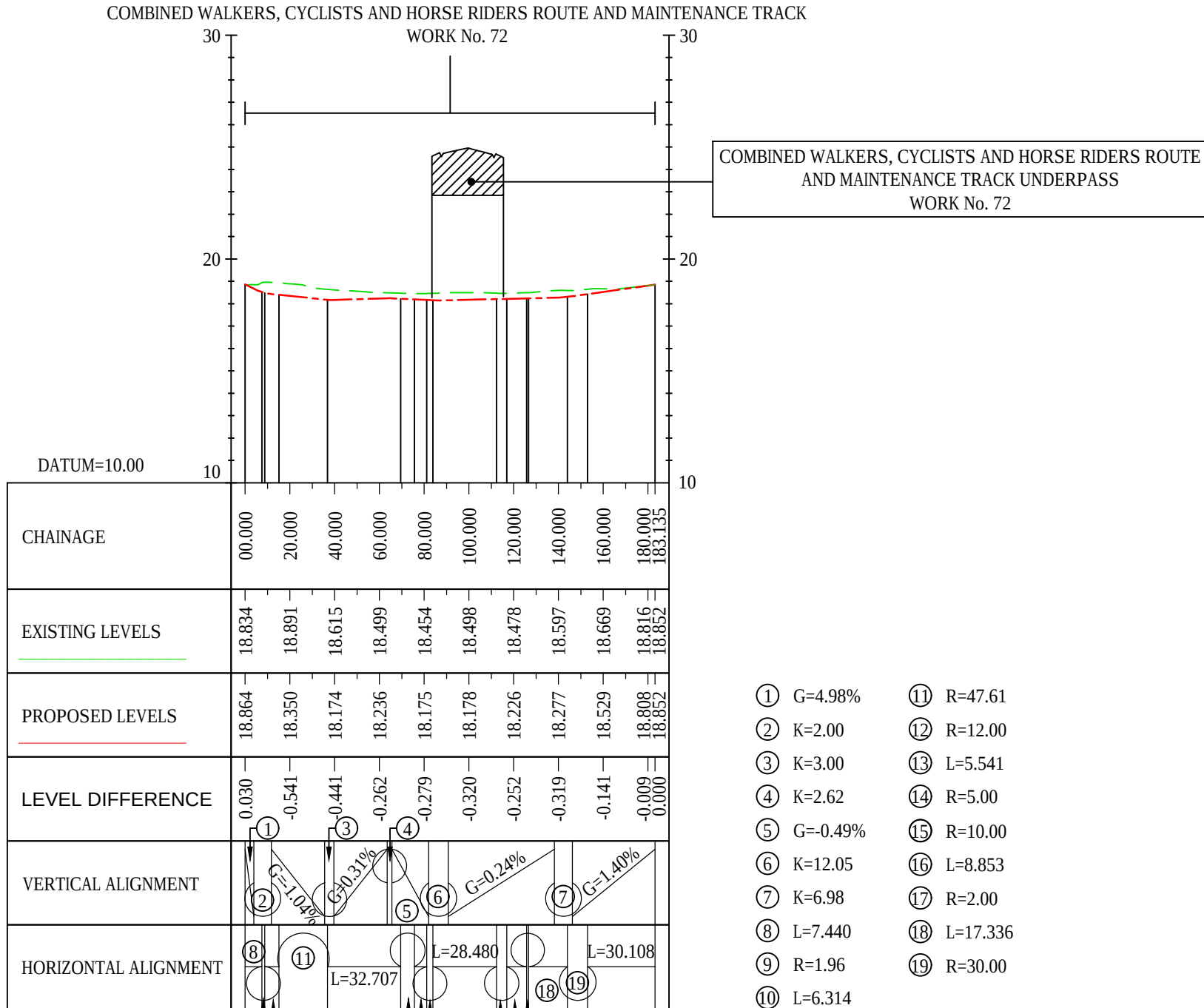
LONGSECTION
SCALE: H 1:2500,V 1:250



- ① G=-4.70%
② G=1.01%
③ L=17.249
④ L=4.188

WESTBOUND EMERGENCY ACCESS ROAD
ALIGNMENT STRING NAME : SR10_CL05

LONGSECTION
SCALE: H 1:2500,V 1:250



- ① G=4.98%
② K=2.00
③ K=3.00
④ K=2.62
⑤ G=-0.49%
⑥ K=12.05
⑦ K=6.98
⑧ L=7.440
⑨ R=1.96
⑩ L=6.314
⑪ R=47.61
⑫ R=12.00
⑬ L=5.541
⑭ R=5.00
⑮ R=10.00
⑯ L=8.853
⑰ R=2.00
⑱ L=17.336
⑲ R=30.00

COMBINED WALKERS, CYCLISTS AND HORSE RIDERS ROUTE AND MAINTENANCE TRACK
ALIGNMENT STRING NAME : SR11_CL01

LONGSECTION
SCALE: H 1:2500,V 1:250

Final for DCO Application	WV	TD	03/02/21
Revision Details	By	Check	Date
Purpose of issue			

DCO APPLICATION

Client
Highways England
Woodlands
Manton Lane
Manton Industrial Estate
Bedford
MK41 7LW



Development Consent Order Number
TR010044

Project Title
**A428 BLACK CAT TO
CAXTON GIBBET
IMPROVEMENTS**

Drawing Title
**ENGINEERING SECTIONS
(PLAN AND PROFILES)
REGULATION 5(2)(O) & 6(2)
SHEET 34**

Designed GH	Drawn WV	Checked JMW	Approved TD	Date 03/02/21
Internal Project No. 60541541		Suitability D7		
Scale @ A1 1:2500		Zone ZN2		

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Drawing Number HE551495	I Originator -ACM	I Volume -LSI	Rev P04
Location ZN2_SW_Z_ZZ -DR-DC-2434			
I Type I Role I Number			