

M54 to M6 Link Road

TR010054

Volume 2

2.10 Engineering Section Drawings

Regulation 5(2)(o)

Planning Act 2008

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

January 2021

Infrastructure Planning

Planning Act 2008

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

**M54 to M6 Link Road
Development Consent Order 202[]**

Engineering Section Drawings

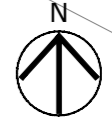
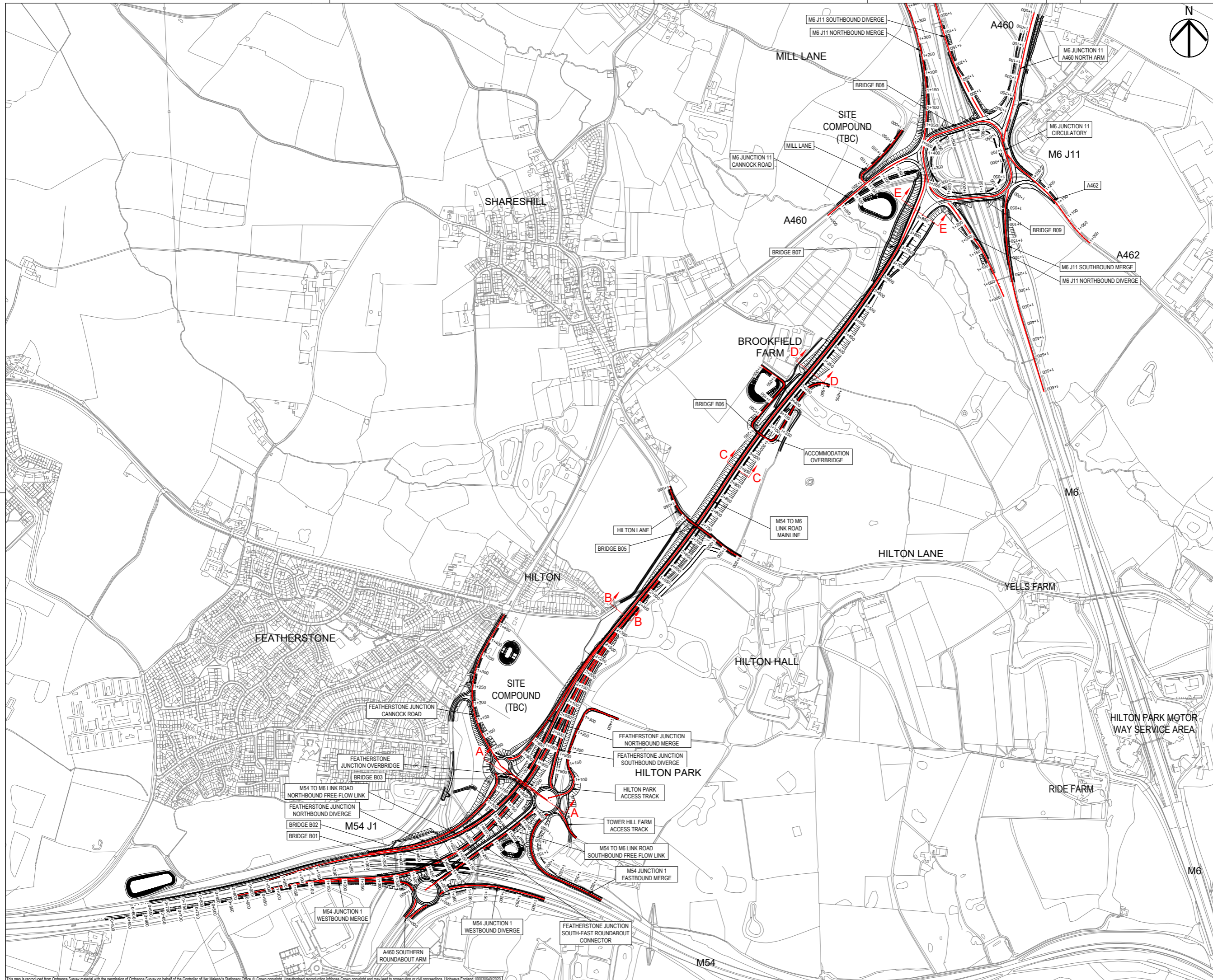
Regulation Number	Regulation 5(2)(o)
Planning Inspectorate Scheme Reference	TR010054
Application Document Reference	2.10
Author	M54 to M6 Link Road Project Team and Highways England

Version	Date	Status of Version
P03	January 2021	Issue to the ExA for Deadline 4

Schedule of Plans included in this Application Document

Drawing Number	Drawing Title	Revision
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1617	ENGINEERING SECTIONS REGULATION 5(2)(O) SECTIONS LOCATIONS	P01
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1601	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 1 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1602	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 2 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1603	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 3 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1604	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 4 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1605	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 5 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1606	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 6 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1607	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 7 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1608	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 8 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1609	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 9 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1610	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 10 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1611	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 11 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1612	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 12 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1613	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 13 OF 16	P03
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1614	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 14 OF 16	P03

Drawing Number	Drawing Title	Revision
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1615	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 15 OF 16	P02
HE514465-ACM-DCO-M54_SW_PR_Z-DR-CH-1616	ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 16 OF 16	P02
HE514465-ACM-DCO-Z1_BR_B01_Z-DR-CB-1001	BRIDGE B01 M54 JUNCTION 1 FREE FLOW LINK UNDERBRIDGE	P02
HE514465-ACM-DCO-Z1_BR_B02_Z-DR-CB-1001	BRIDGE B02 M54 JUNCTION 1 LOCAL CONNECTOR UNDERBRIDGE	P01
HE514465-ACM-DCO-Z1_BR_B03_Z-DR-CB-1001	BRIDGE B03 FEATHERSTONE JUNCTION OVERBRIDGE	P01
HE514465-ACM-DCO-Z1_BR_B05_Z-DR-CB-1001	BRIDGE B05 HILTON LANE OVERBRIDGE	P02
HE514465-ACM-DCO-Z1_BR_B06_Z-DR-CB-1001	BRIDGE B06 RIDE FARM ACCOMODATION BRIDGE	P01
HE514465-ACM-DCO-Z1_BR_B07_Z-DR-CB-1001	BRIDGE B07 SHARESHILL FLOOD CROSSING	P02
HE514465-ACM-DCO-Z1_BR_B08_Z-DR-CB-1001	BRIDGE B08 M6 J11 NEW SHARESHILL INTERCHANGE (NORTH)	P01
HE514465-ACM-DCO-Z1_BR_B09_Z-DR-CB-1001	BRIDGE B09 M6 J11 NEW SHARESHILL INTERCHANGE (SOUTH)	P01



- NOTES
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 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.

Draft	AM	AM	04/01/21	P00
First Issue	MW	RR	05/01/21	P01
Revision Details	By	Check	Date	Suffix

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
20 Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

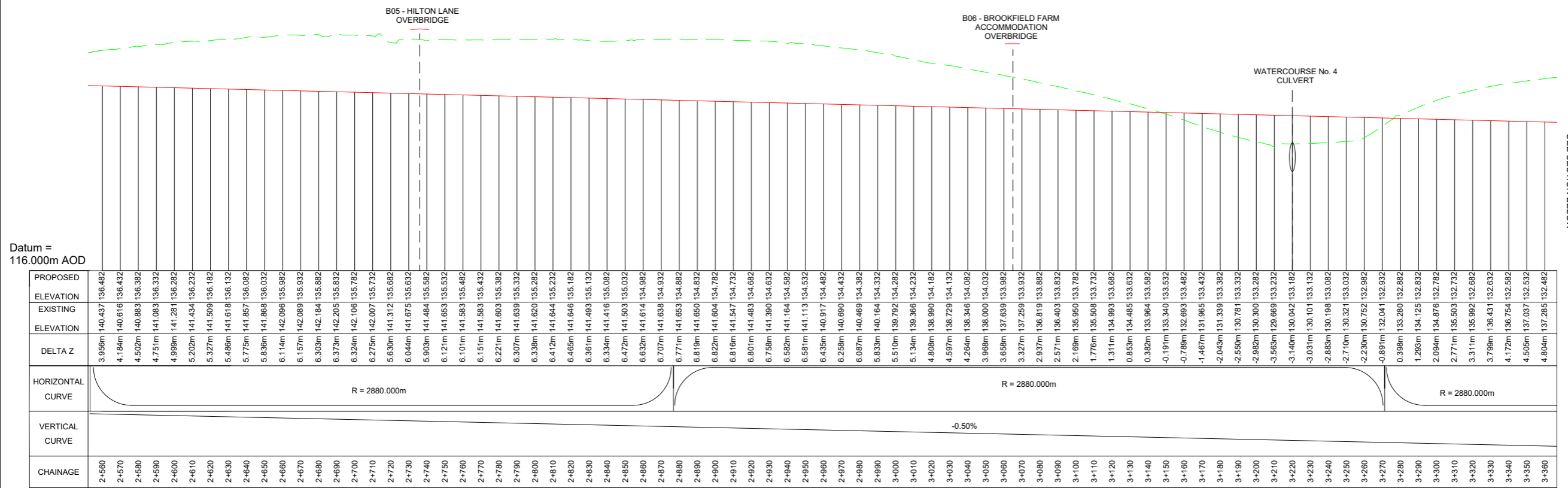
Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SECTIONS LOCATIONS**

Designed	Drawn	Checked	Approved	Date
---	MW	AM	RR	05/01/21
Internal Project No.	Subality			
60536736	S8			
Scale @ A1	Zone			
AS SHOWN/AS SHOWNV	Highways General			
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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-HGN-		P01
M54_SW_PR_Z		-DR-CH-1617		
Location	I Type	I Role	I Number	

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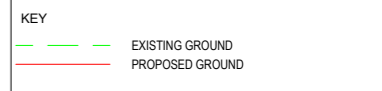


Datum = 116.000m AOD

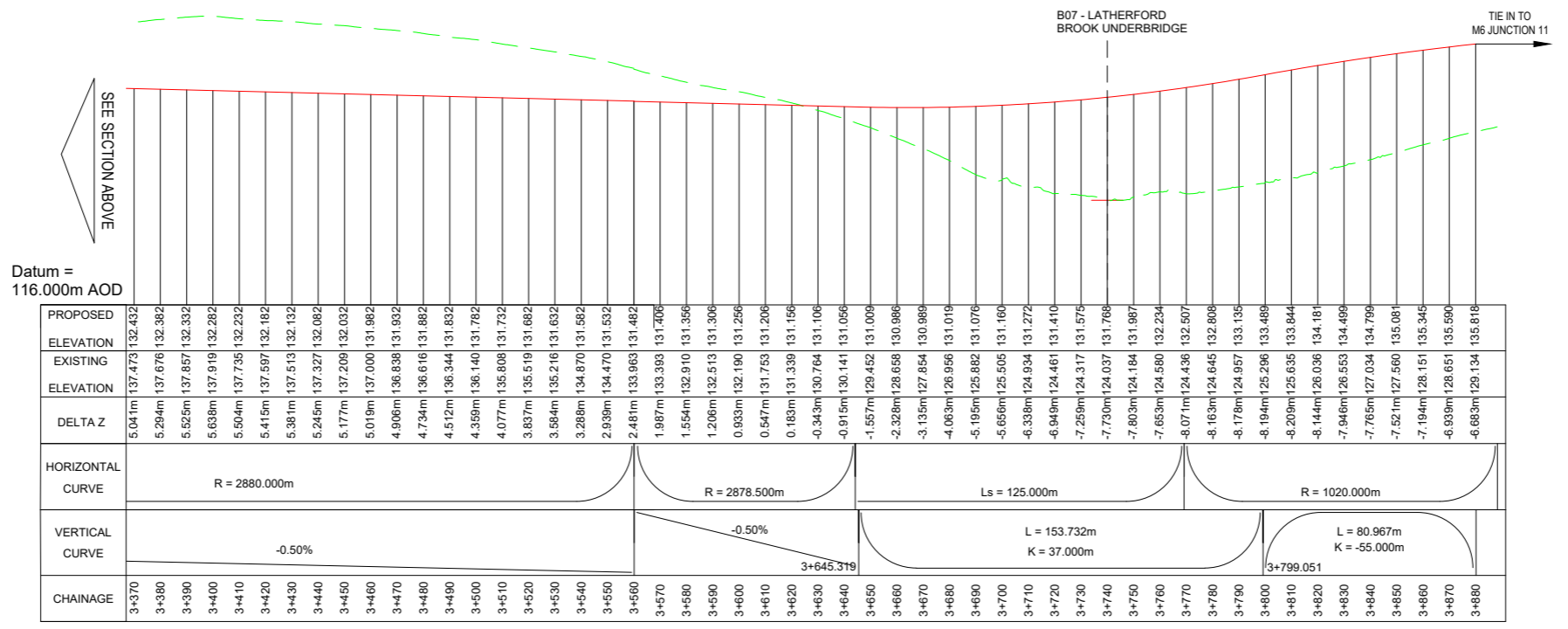
PROPOSED ELEVATION	EXISTING ELEVATION	DELTA Z	HORIZONTAL CURVE	VERTICAL CURVE	CHAINAGE
140.437	136.482	3.956m	R = 2880.000m	-0.50%	2+560
140.616	136.432	4.184m			2+570
140.683	136.382	4.502m			2+580
141.083	136.332	4.751m			2+590
141.281	136.282	4.999m			2+600
141.434	136.232	5.202m			2+610
141.509	136.182	5.327m			2+620
141.618	136.132	5.486m			2+630
141.857	136.082	5.775m			2+640
141.868	136.032	5.836m			2+650
142.096	135.982	6.114m	2+660		
142.089	135.932	6.157m	2+670		
142.184	135.882	6.303m	2+680		
142.205	135.832	6.373m	2+690		
142.106	135.782	6.324m	2+700		
142.007	135.732	6.275m	2+710		
141.312	135.682	5.630m	2+720		
141.675	135.632	6.044m	2+730		
141.484	135.582	5.903m	2+740		
141.653	135.532	6.121m	2+750		
141.583	135.482	6.101m	2+760		
141.603	135.432	6.151m	2+770		
141.639	135.382	6.227m	2+780		
141.620	135.332	6.307m	2+790		
141.644	135.282	6.388m	2+800		
141.646	135.182	6.412m	2+810		
141.416	135.082	6.465m	2+820		
141.503	135.032	6.349m	2+830		
141.614	134.982	6.472m	2+840		
141.638	134.932	6.32m	2+850		
141.653	134.882	6.707m	2+860		
141.650	134.832	6.771m	2+870		
141.604	134.782	6.819m	2+880		
141.547	134.732	6.822m	2+890		
141.483	134.682	6.816m	2+900		
141.390	134.632	6.801m	2+910		
141.113	134.582	6.758m	2+920		
140.917	134.532	6.582m	2+930		
140.977	134.482	6.581m	2+940		
140.690	134.432	6.435m	2+950		
140.469	134.382	6.258m	2+960		
140.164	134.332	6.097m	2+970		
139.792	134.282	5.833m	2+980		
139.366	134.232	5.134m	2+990		
138.729	134.182	4.808m	3+000		
138.346	134.132	4.597m	3+010		
138.000	134.082	4.264m	3+020		
137.639	134.032	3.968m	3+030		
137.259	133.982	3.658m	3+040		
136.819	133.932	3.327m	3+050		
136.403	133.882	2.937m	3+060		
135.950	133.832	2.571m	3+070		
135.508	133.782	2.169m	3+080		
134.993	133.732	1.776m	3+090		
134.485	133.682	1.311m	3+100		
133.964	133.632	0.853m	3+110		
133.340	133.582	0.382m	3+120		
132.693	133.532	-0.191m	3+130		
132.993	133.482	-0.789m	3+140		
131.965	133.432	-1.467m	3+150		
131.339	133.382	-2.043m	3+160		
130.781	133.332	-2.550m	3+170		
130.300	133.282	-2.982m	3+180		
129.669	133.232	-3.563m	3+190		
130.042	133.182	-3.140m	3+200		
130.101	133.132	-3.031m	3+210		
130.198	133.082	-2.883m	3+220		
130.321	133.032	-2.710m	3+230		
130.752	132.982	-2.230m	3+240		
132.041	132.932	-0.891m	3+250		
133.280	132.882	0.398m	3+260		
134.125	132.832	1.293m	3+270		
134.676	132.782	2.094m	3+280		
135.503	132.732	2.771m	3+290		
135.992	132.682	3.311m	3+300		
136.431	132.632	3.799m	3+310		
136.754	132.582	4.172m	3+320		
137.037	132.532	4.506m	3+330		
137.285	132.482	4.804m	3+340		
			3+350		
			3+360		

DESIGN SPEED 120kph
(WORK No. 25 & 26)
M54 TO M6 LINK ROAD MAINLINE
LONGITUDINAL SECTION CH. 2550m - CH. 3365m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

- NOTES
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SEE SECTION BELOW



Datum = 116.000m AOD

PROPOSED ELEVATION	EXISTING ELEVATION	DELTA Z	HORIZONTAL CURVE	VERTICAL CURVE	CHAINAGE
132.432	137.475	5.043m	R = 2880.000m	-0.50%	3+370
132.382	137.676	5.294m			3+380
132.332	137.857	5.525m			3+390
132.282	137.919	5.638m			3+400
132.232	137.795	5.563m			3+410
132.182	137.597	5.415m			3+420
132.132	137.513	5.381m			3+430
132.082	137.327	5.245m			3+440
132.032	137.209	5.177m			3+450
131.982	137.000	5.019m			3+460
131.932	136.838	4.906m	3+470		
131.882	136.616	4.734m	3+480		
131.832	136.344	4.512m	3+490		
131.782	136.140	4.359m	3+500		
131.732	135.808	4.077m	3+510		
131.682	135.519	3.837m	3+520		
131.632	135.216	3.584m	3+530		
131.582	134.870	3.288m	3+540		
131.532	134.470	2.939m	3+550		
131.482	133.963	2.481m	3+560		
131.406	133.393	1.987m	3+570		
131.356	132.910	1.554m	3+580		
131.306	132.513	1.206m	3+590		
131.256	132.190	0.933m	3+600		
131.206	131.753	0.547m	3+610		
131.156	131.339	0.183m	3+620		
131.106	130.764	-0.343m	3+630		
131.056	130.141	-0.915m	3+640		
131.009	129.452	-1.557m	3+650		
130.986	128.656	-2.329m	3+660		
130.988	127.854	-3.135m	3+670		
131.019	126.956	-4.063m	3+680		
131.079	125.882	-5.199m	3+690		
131.160	125.505	-5.656m	3+700		
131.272	124.934	-6.338m	3+710		
131.410	124.461	-6.949m	3+720		
131.575	124.317	-7.259m	3+730		
131.768	124.037	-7.730m	3+740		
131.987	124.184	-7.803m	3+750		
132.224	124.580	-7.653m	3+760		
132.507	124.436	-8.071m	3+770		
132.808	124.646	-8.163m	3+780		
133.135	124.957	-8.178m	3+790		
133.489	125.296	-8.194m	3+800		
133.844	125.635	-8.209m	3+810		
134.181	126.036	-8.144m	3+820		
134.469	125.553	-7.946m	3+830		
134.798	127.034	-7.765m	3+840		
135.081	127.560	-7.521m	3+850		
135.349	128.151	-7.194m	3+860		
135.590	128.651	-6.939m	3+870		
135.818	129.134	-6.683m	3+880		

DESIGN SPEED 120kph
(WORK No. 25 & 26)
M54 TO M6 LINK ROAD MAINLINE
LONGITUDINAL SECTION CH. 3365m - CH. 3888m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

Revision Details	By	Check	Date	Suffix
First Issue	MW	RR	13/01/20	P01
Minor amendments.	MW	RR	22/01/20	P02
Updated to reflect Oct 2020 scheme changes.	AM	RR	21/09/20	P03

Purpose of issue

DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number

TR010054

Project Title

M54 to M6 Link Road

Development Consent Order Drawing Number

TR010054/APP/2.10

Drawing Title

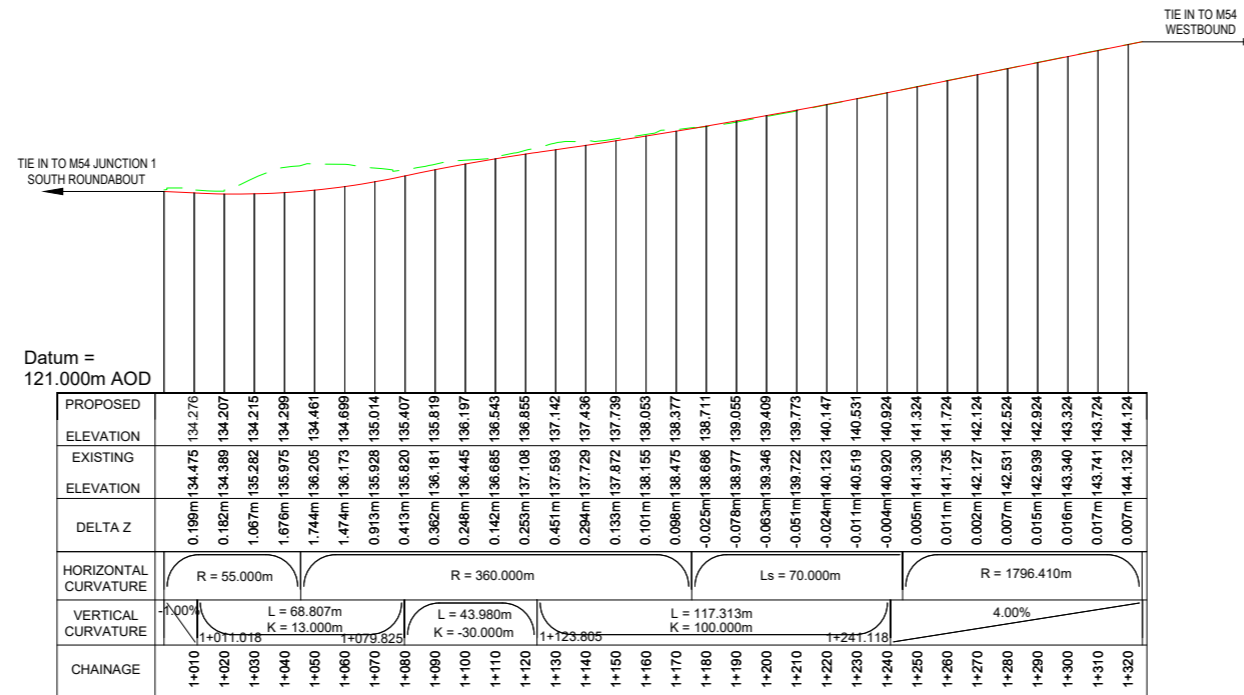
ENGINEERING SECTIONS REGULATION 5(2)(O) SHEET 2 OF 16

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	21/09/20

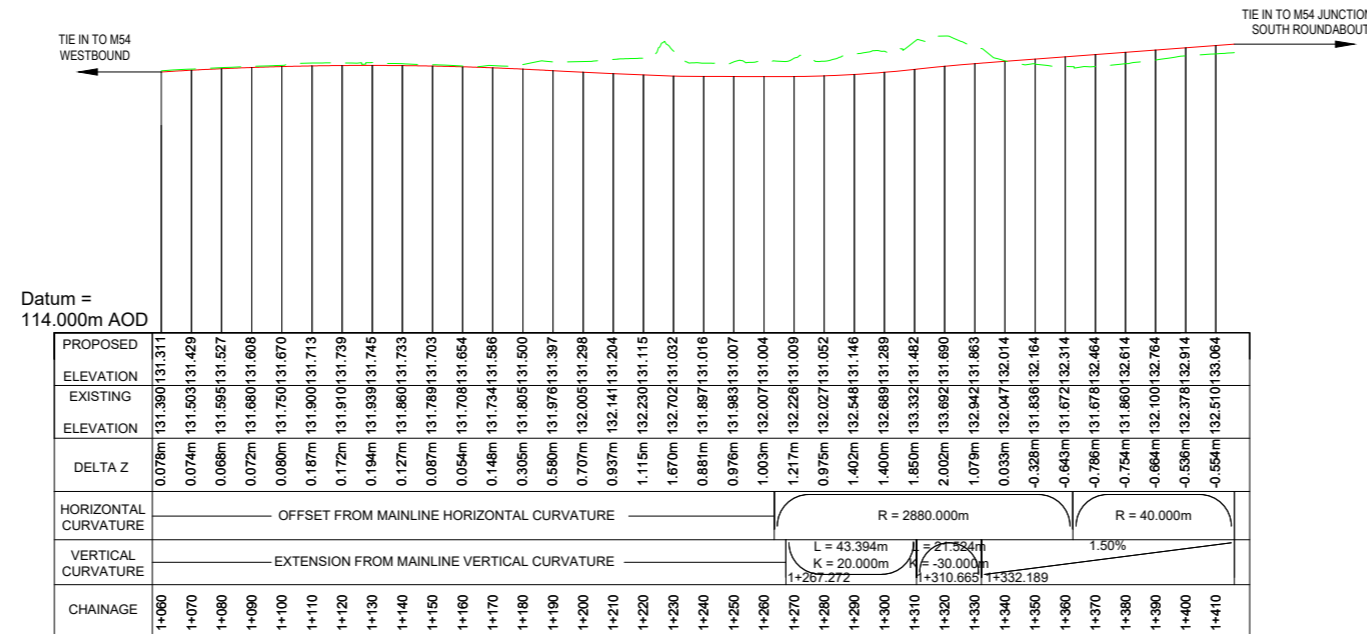
Internal Project No. 60536736
Scale @ A1
AS SHOWN/HAS SHOWN/V

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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	M54_SW_PR_Z	P03
		-DR-CH-1602		



DESIGN SPEED 70kph
(WORK No. 9)
M54 JUNCTION 1 WESTBOUND DIVERGE
LONGITUDINAL SECTION CH. 1000m - CH. 1325m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250



DESIGN SPEED 70kph
(WORK No. 5)
M54 JUNCTION 1 WESTBOUND MERGE
LONGITUDINAL SECTION CH. 1060m - CH. 1416m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

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KEY
 EXISTING GROUND
 PROPOSED GROUND

First Issue	MW	RR	13/01/20	P01
Minor amendments.	MW <td>RR <td>22/01/20 <td>P02</td> </td></td>	RR <td>22/01/20 <td>P02</td> </td>	22/01/20 <td>P02</td>	P02
Updated to reflect Oct 2020 scheme changes.	AM <td>RR <td>22/09/20 <td>P03</td> </td></td>	RR <td>22/09/20 <td>P03</td> </td>	22/09/20 <td>P03</td>	P03
Revision Details	By <td>Check <td>Date <td>Suffix </td></td></td>	Check <td>Date <td>Suffix </td></td>	Date <td>Suffix </td>	Suffix

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 4 OF 16**

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20
Internal Project No. 60536736	Suitability S8	Zone Development Consent Order		

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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	M54_SW_PR_Z	P03
Location	Type	Role	Number	

- NOTES**
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KEY

--- EXISTING GROUND
 --- PROPOSED GROUND

TIE IN TO M54 JUNCTION 1 SOUTH ROUNDABOUT TIE IN TO A460

Datum = 116.000m AOD

PROPOSED	133.538
ELEVATION	133.332
EXISTING	133.507
ELEVATION	133.656
DELTA Z	-0.206m
HORIZONTAL CURVATURE	R = 47.001m
VERTICAL CURVATURE	K = 5.873m
CHAINAGE	0+000

DESIGN SPEED 70kph
 (WORK No. 7)
 A460 SOUTHERN ROUNDABOUT ARM
 LONGITUDINAL SECTION CH. 0m - CH. 65m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

TIE IN TO FEATHERSTONE JUNCTION WEST ROUNDABOUT

TIE IN TO EXISTING A460

Datum = 120.000m AOD

PROPOSED	143.001
ELEVATION	137.204
EXISTING	136.988
ELEVATION	136.784
DELTA Z	-5.797m
HORIZONTAL CURVATURE	R = 1020.000m
VERTICAL CURVATURE	L = 67.865m
CHAINAGE	0+030

DESIGN SPEED 60kph
 (WORK No. 16)
 FEATHERSTONE JUNCTION CANNOCK ROAD
 LONGITUDINAL SECTION CH. 26m - CH. 484m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

First Issue	MW	RR	13/01/20	P01
Minor amendments	MW	RR	22/01/20	P02
Updated to reflect Oct 2020 scheme changes	AM	RR	22/09/20	P03
Revision Details	By	Check	Date	Suffix

DCO APPLICATION

Client
 Highways England
 Floor 5
 Two Colmore Square
 38 Colmore Circus
 Birmingham
 B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

**ENGINEERING SECTIONS
 REGULATION 5(2)(O)
 SHEET 5 OF 16**

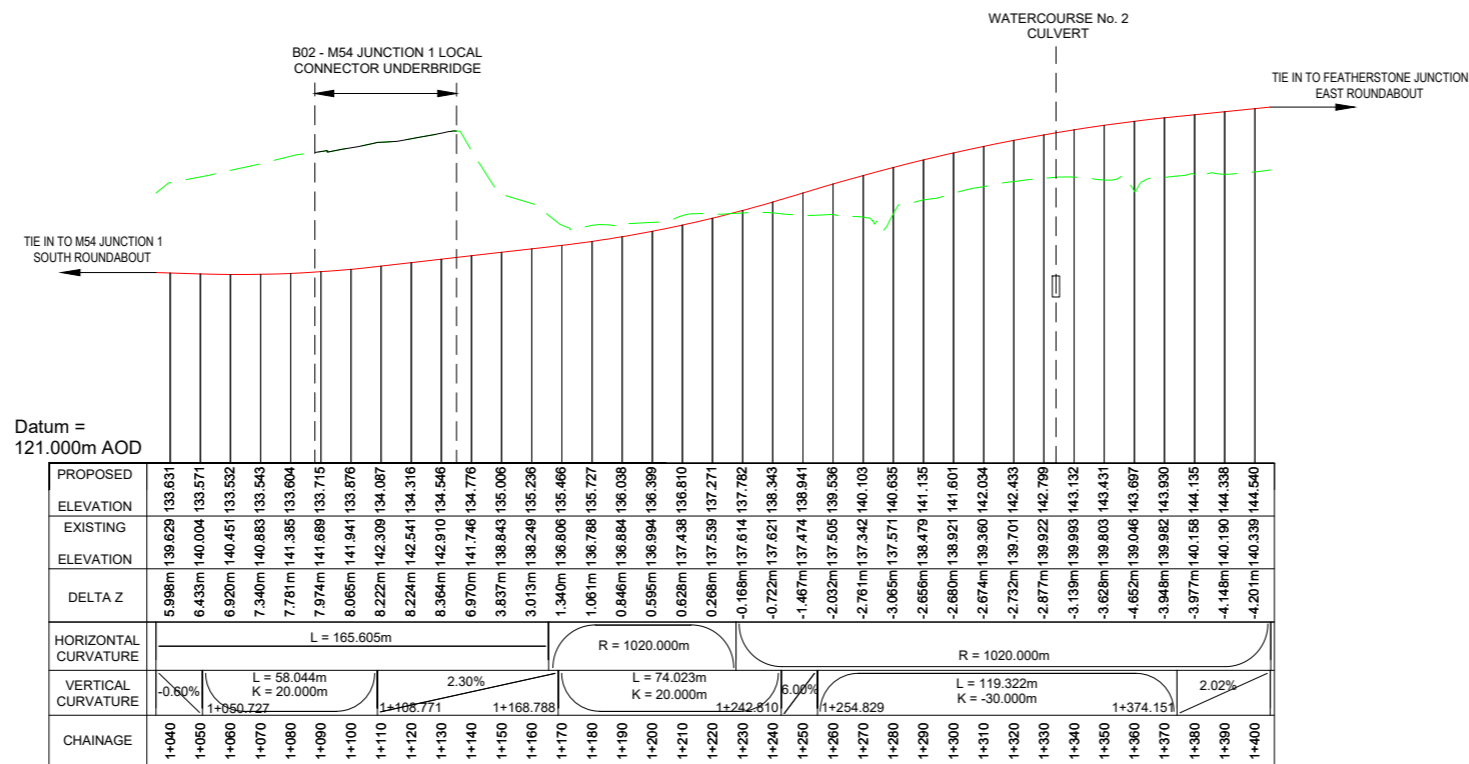
Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20

Internal Project No. 60536736
 Scale @ A1
 AS SHOWN/HAS SHOWN/V

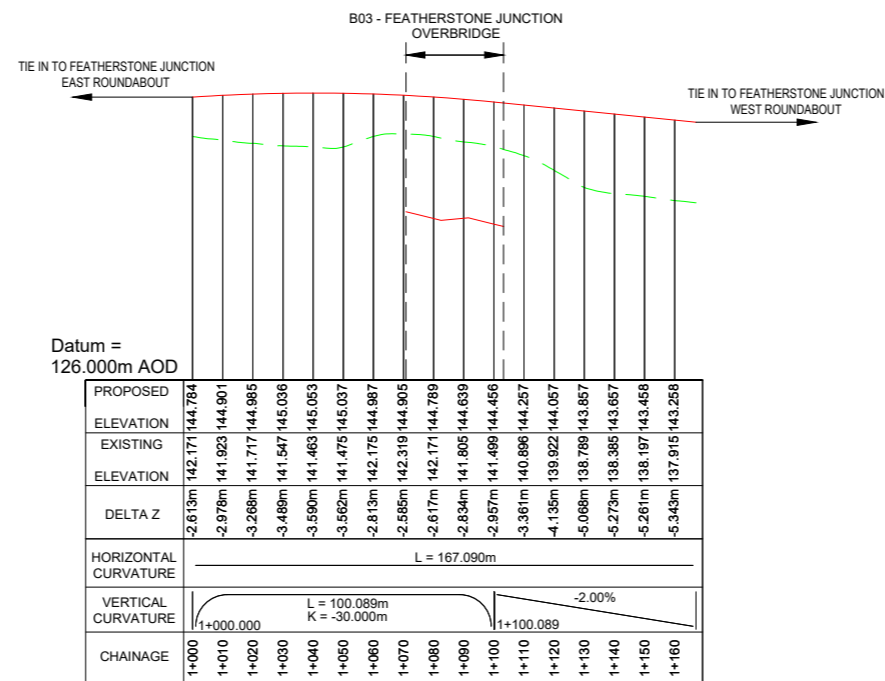
Suitability S8
 Zone Development Consent Order

Drawing Number	Originator	Volume	Rev
HE514465	-ACM	-DCO-	P03
M54_SW_PR_Z	-DR-CH-1605		
Location	Type	Role	Number

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DESIGN SPEED 70kph
(WORK No. 10)
FEATHERSTONE JUNCTION SOUTH-EAST ROUNDABOUT CONNECTOR
LONGITUDINAL SECTION CH. 1035m - CH. 1405m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250



DESIGN SPEED 70kph
(WORK No. 14)
FEATHERSTONE JUNCTION OVERBRIDGE
LONGITUDINAL SECTION CH. 1000m - CH. 1160m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

- NOTES
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 - DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 - ALL DIMENSIONS IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
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KEY
 EXISTING GROUND
 PROPOSED GROUND

Revision	By	Check	Date	Suffix
13/01/20	MW	RR		P01
22/01/20	MW	RR		P02
22/09/20	AM	RR		P03

DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

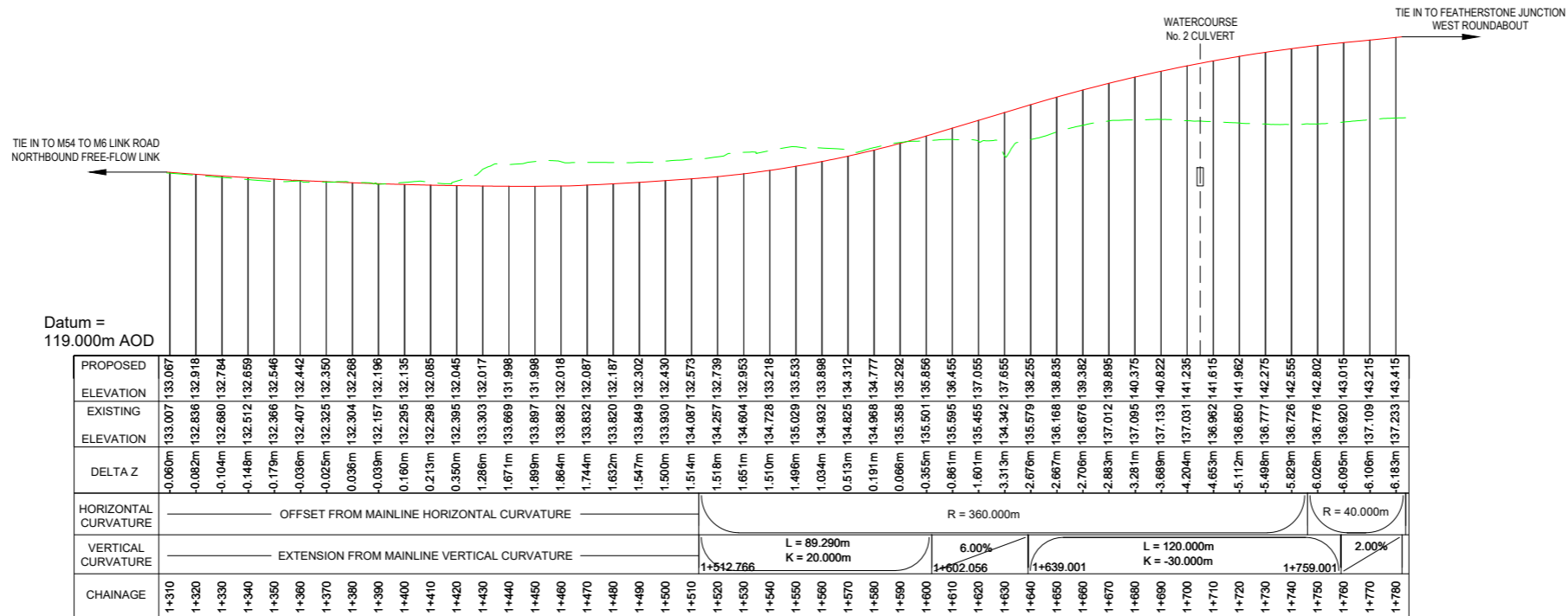
Drawing Title
**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 6 OF 16**

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20

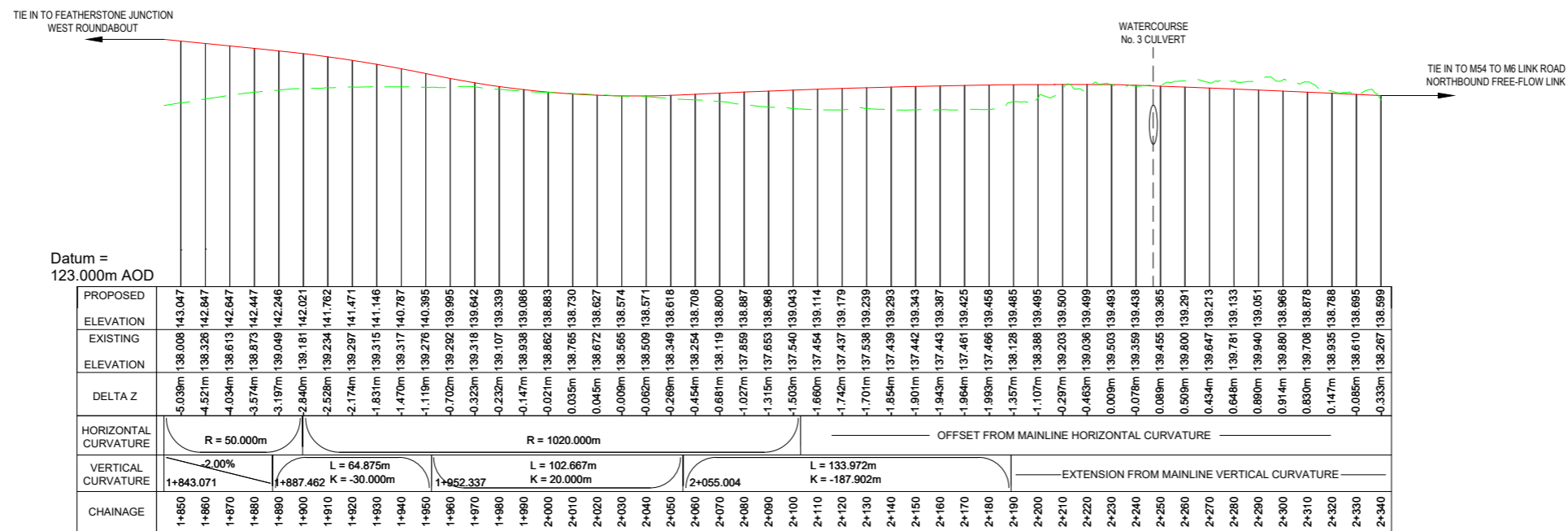
Internal Project No. 60536736
 Scale @ A1
 AS SHOWN/HAS SHOWN/V Development Consent Order

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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	M54_SW_PR_Z	P03
			-DR-CH-1606	



DESIGN SPEED 70kph
(WORK No. 6)
FEATHERSTONE JUNCTION NORTHBOUND DIVERGE
LONGITUDINAL SECTION CH. 1308m - CH. 1782m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250



DESIGN SPEED 70 kph
(WORK No. 23)
FEATHERSTONE JUNCTION NORTHBOUND MERGE
LONGITUDINAL SECTION CH. 1843m - CH. 2340m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

- NOTES
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KEY

--- EXISTING GROUND
--- PROPOSED GROUND

Revision Details	By	Check	Date	Suffix
First Issue	MW	RR	13/01/20	P01
Minor amendments	MW	RR	22/01/20	P02
Updated to reflect Oct 2020 scheme changes	AM	RR	22/09/20	P03

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

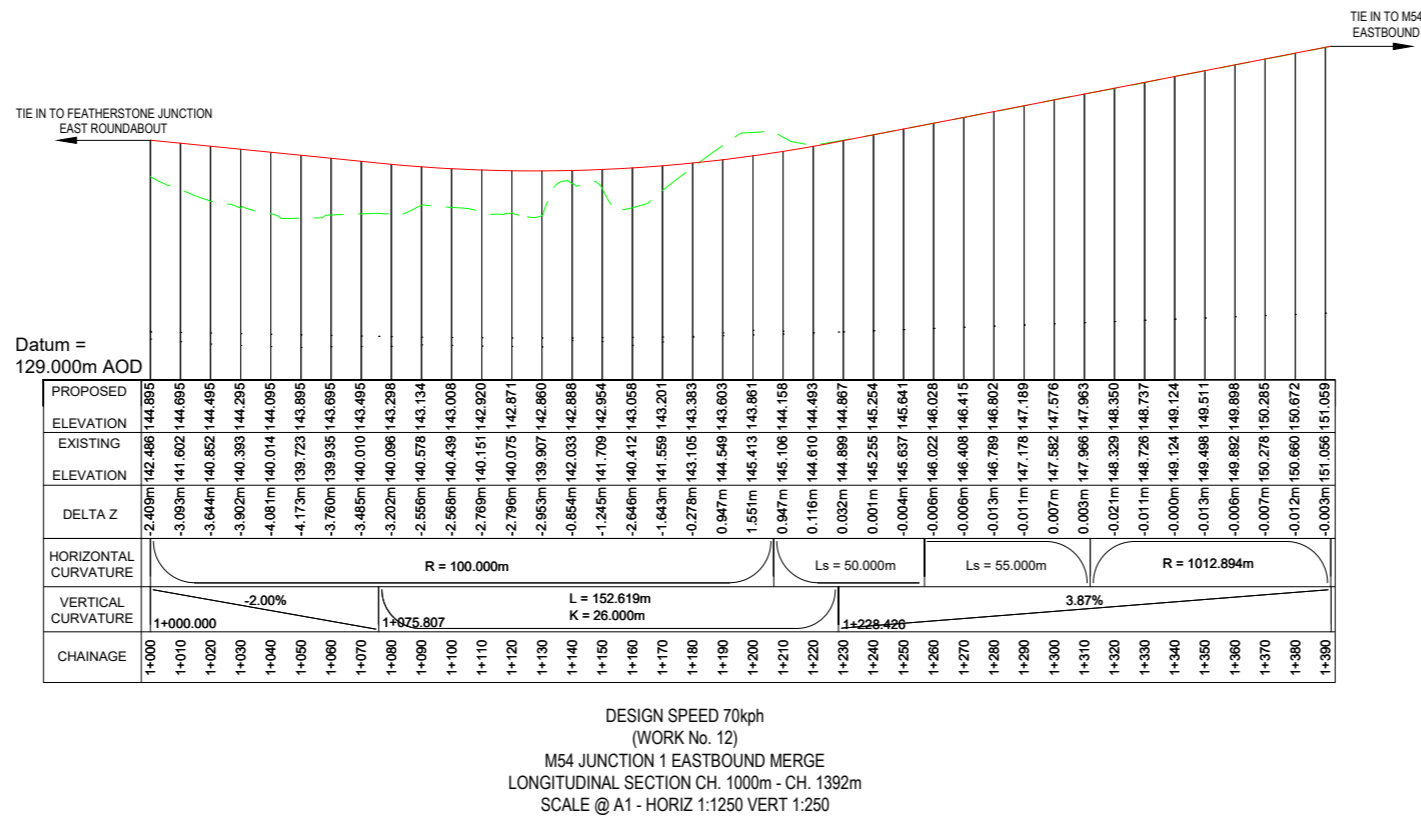
Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 7 OF 16**

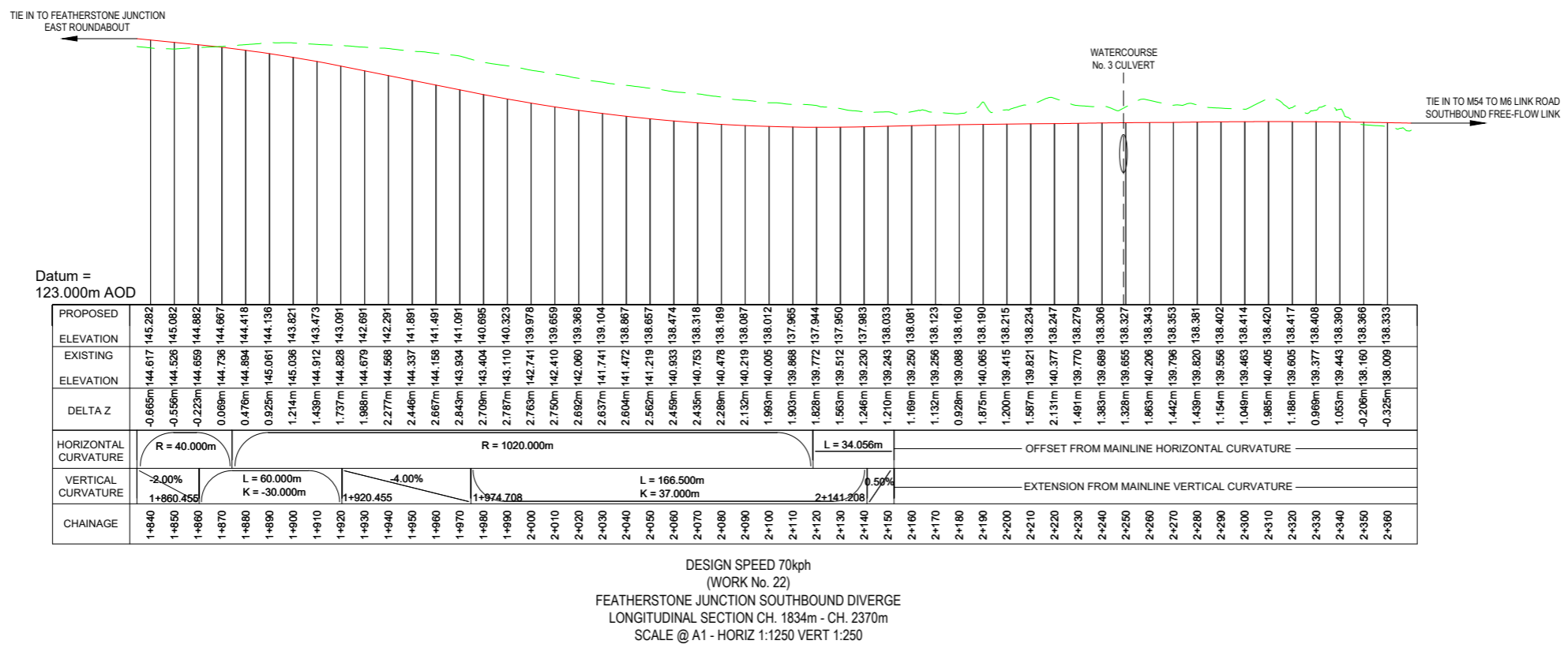
Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20

Internal Project No. 60536736
Scale @ A1
AS SHOWN/HAS SHOWN/V

Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	M54_SW_PR_Z	P03
			-DR-CH-1607	



- NOTES
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- KEY
- EXISTING GROUND
 - PROPOSED GROUND



First Issue	MW	RR	13/01/20	P01
Minor amendments	MW <td>RR <td>22/01/20 <td>P02</td> </td></td>	RR <td>22/01/20 <td>P02</td> </td>	22/01/20 <td>P02</td>	P02
Updated to reflect Oct 2020 scheme changes	AM <td>RR <td>22/09/20 <td>P03</td> </td></td>	RR <td>22/09/20 <td>P03</td> </td>	22/09/20 <td>P03</td>	P03
Revision Details	By <td>Check <td>Date <td>Suffix </td></td></td>	Check <td>Date <td>Suffix </td></td>	Date <td>Suffix </td>	Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 8 OF 16**

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20
Internal Project No. 60536736	Subsidiary S8			
Scale @ A1	Zone		Development Consent Order	
AS SHOWN/HAS SHOWNV				
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Drawing Number HE514465	Originator -ACM	Volume -DCO-	Rev P03	
M54_SW_PR_Z		-DR-CH-1608		
Location		Type	Role	Number

TIE IN TO FEATHERSTONE JUNCTION EAST ROUNDABOUT
 TIE IN TO EXISTING TRACK

Datum = 127.000m AOD

PROPOSED	145.102
ELEVATION	144.824
EXISTING	144.824
ELEVATION	144.824
DELTA Z	-0.386m
HORIZONTAL CURVATURE	L = 44.000m R = 180.000m
VERTICAL CURVATURE	L = 57.324m K = 9.000m
CHAINAGE	1+040

DESIGN SPEED N/A
 (WORK No. 20)
 TOWER HILL FARM ACCESS TRACK
 LONGITUDINAL SECTION CH. 1040m - CH. 1144m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

TIE IN TO FEATHERSTONE JUNCTION EAST ROUNDABOUT

TIE IN TO EXISTING TRACK

Datum = 127.000m AOD

PROPOSED	145.405
ELEVATION	145.205
EXISTING	145.087
ELEVATION	145.080
DELTA Z	1.065m
HORIZONTAL CURVATURE	L = 44.956m R = 40.000m
VERTICAL CURVATURE	L = 60.039m K = 9.000m
CHAINAGE	1+030

DESIGN SPEED N/A
 (WORK No. 21)
 HILTON PARK ACCESS TRACK
 LONGITUDINAL SECTION CH. 1030m - CH. 1417m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

NOTES

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KEY

- EXISTING GROUND
- PROPOSED GROUND

Revision Details	By	Check	Date	Suffix
First Issue	MW	RR	13/01/20	P01
Minor amendments	MW	RR	22/01/20	P02
Updated to reflect Oct 2020 scheme changes	AM	RR	22/09/20	P03

Purpose of Issue
DCO APPLICATION

Client
 Highways England
 Floor 5
 Two Colmore Square
 38 Colmore Circus
 Birmingham
 B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**ENGINEERING SECTIONS
 REGULATION 5(2)(O)
 SHEET 9 OF 16**

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20

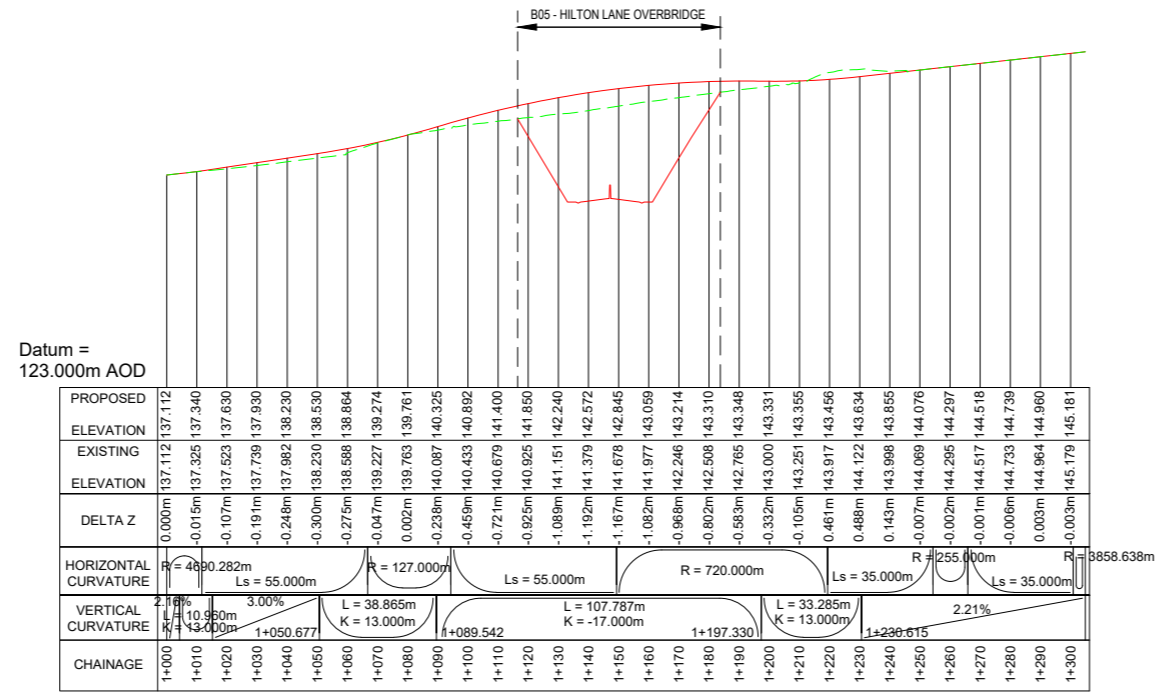
Internal Project No.
 60536736

Suitability
 S8

Scale @ A1
 AS SHOWN/H/AS SHOWN/V
 Zone
 Development Consent Order

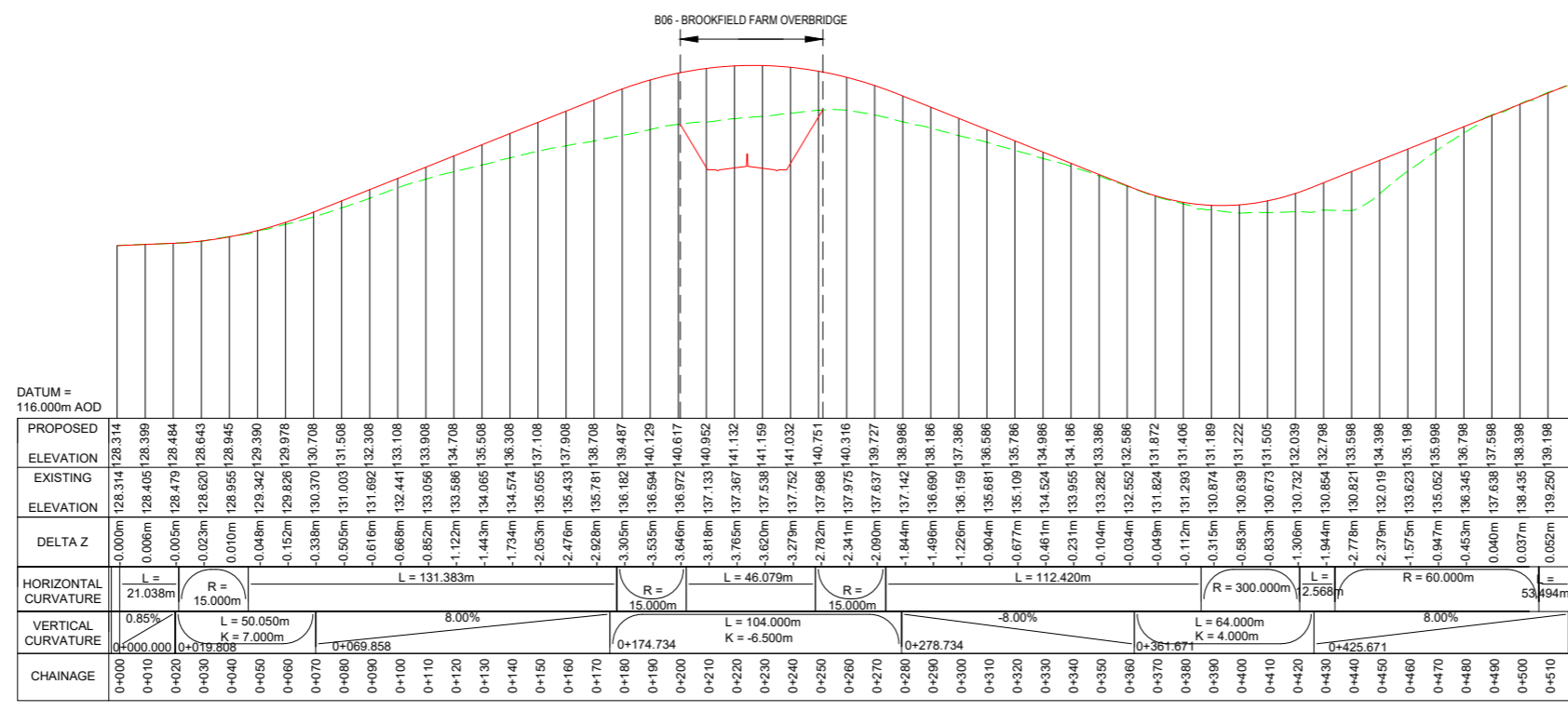
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Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	P03
M54_SW_PR_Z	-DR-CH-	1609	



Datum = 123.000m AOD

DESIGN SPEED 60kph
(WORK No. 27)
HILTON LANE
LONGITUDINAL SECTION CH. 1000m - CH. 1305m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250



DESIGN SPEED N/A
(WORK No. 28)
ACCOMMODATION OVERBRIDGE
LONGITUDINAL SECTION CH. 0m - CH. 510m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

- NOTES
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KEY
 EXISTING GROUND
 PROPOSED GROUND

First Issue	MW	RR	13/01/20	P01
Minor amendments.	MW	RR	22/01/20	P02
Updated to reflect Oct 2020 scheme changes.	AM	RR	21/09/20	P03
Revision Details	By	Check	Date	Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

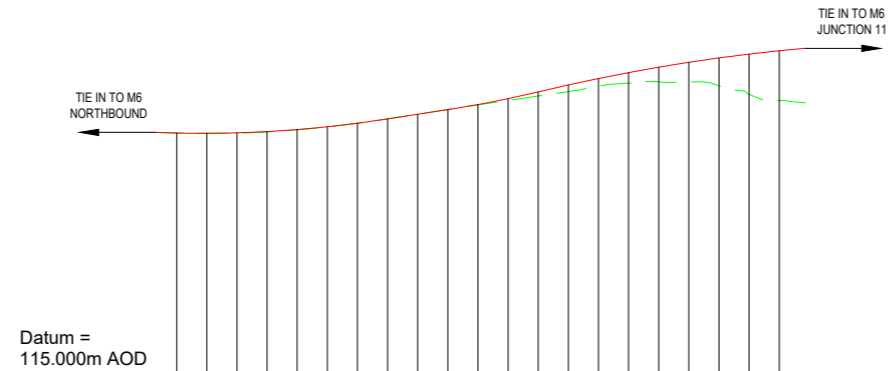
Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 10 OF 16**

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	21/09/20
Internal Project No.	Suitability			
60536736	S8			
Scale @ A1	Zone			
AS SHOWN/HAS SHOWNV	Development Consent Order			

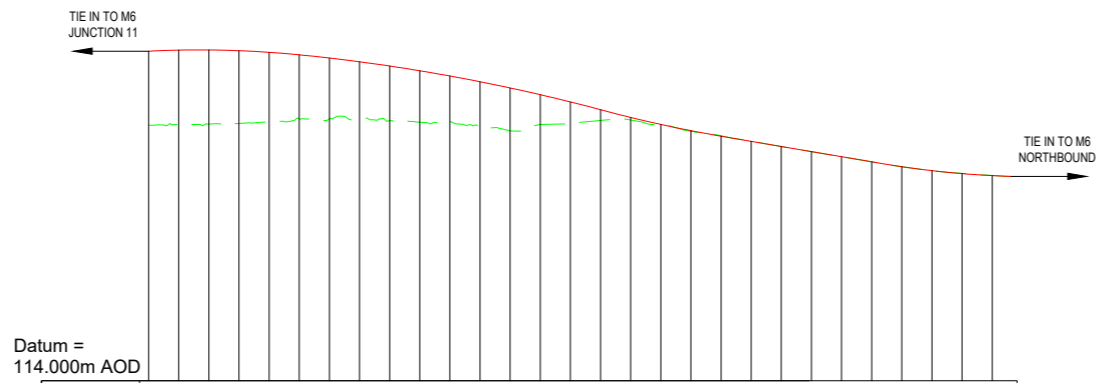
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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO		P03
M54_SW_PR_Z		-DR-CH-1610		
Location	Type	Role	Number	



PROPOSED ELEVATION	130.944	130.938	130.925	130.937	131.040	131.174	131.359	131.596	131.882	132.186	132.492	132.835	133.228	133.671	134.132	134.559	134.952	135.311	135.635	135.926	136.182	136.404	
EXISTING ELEVATION	130.938	130.925	130.937	131.012	131.040	131.162	131.359	131.596	131.883	132.186	132.511	132.835	133.110	133.228	133.404	133.609	134.048	134.253	134.343	134.327	134.074	133.512	133.100
DELTA Z	-0.006m	-0.000m	-0.020m	-0.028m	-0.012m	-0.012m	-0.000m	0.001m	0.000m	0.002m	0.018m	0.027m	-0.118m	-0.268m	-0.439m	-0.510m	-0.689m	-0.968m	-1.308m	-1.852m	-2.677m	-3.304m	
HORIZONTAL CURVATURE	R = 1020.000m																						
VERTICAL CURVATURE	L = 75.484m, K = 19.567m; L = 34.012m, K = 20.000m; L = 87.441m, K = -30.000m																						
CHAINAGE	1+080	1+090	1+100	1+110	1+120	1+130	1+140	1+150	1+160	1+170	1+180	1+190	1+200	1+210	1+220	1+230	1+240	1+250	1+260	1+270	1+280		

DESIGN SPEED 70kph
(WORK No. 32)
M6 J11 NORTHBOUND DIVERGE
LONGITUDINAL SECTION CH. 1072m - CH. 1289m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250



PROPOSED ELEVATION	135.875	135.944	135.954	135.906	135.799	135.633	135.419	135.171	134.880	134.576	134.229	133.848	133.434	132.986	132.506	131.992	131.477	131.013	130.598	130.233	129.893	129.552	129.211	128.871	128.530	128.206	127.944	127.747	127.623	127.614
EXISTING ELEVATION	130.946	130.956	131.031	131.075	131.193	131.374	131.619	131.949	132.266	132.576	132.829	133.046	133.229	133.386	133.506	133.574	133.599	133.574	133.500	133.376	133.204	132.983	132.714	132.398	132.036	131.633	131.190	130.717	130.214	129.681
DELTA Z	-4.929m	-4.940m	-4.923m	-4.837m	-4.605m	-4.258m	-4.036m	-3.822m	-3.624m	-3.418m	-3.043m	-3.002m	-2.849m	-1.979m	-1.422m	-0.717m	-0.169m	0.005m	-0.042m	0.025m	-0.001m	-0.007m	-0.007m	-0.003m	-0.002m	-0.003m	0.011m	0.008m		
HORIZONTAL CURVATURE	R = 100.000m; R = 720.000m																													
VERTICAL CURVATURE	L = 49.237m, K = -17.000m; L = 100.269m, K = -30.000m; L = 38.728m, K = 20.000m; L = 43.586m, K = 15.505m																													
CHAINAGE	1+000	1+010	1+020	1+030	1+040	1+050	1+060	1+070	1+080	1+090	1+100	1+110	1+120	1+130	1+140	1+150	1+160	1+170	1+180	1+190	1+200	1+210	1+220	1+230	1+240	1+250	1+260	1+270	1+280	

DESIGN SPEED 70kph
(WORK No. 33)
M6 J11 NORTHBOUND MERGE
LONGITUDINAL SECTION CH. 1000m - CH. 1286m
SCALE @ A1 - HORIZ 1:1250 VERT 1:250

- NOTES
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- KEY
- EXISTING GROUND
 - PROPOSED GROUND

First Issue	MW	RR	13/01/20	P01
Minor amendments	MW	RR	22/01/20	P02
No change to section details. Green line made more visible.	MW	RR	22/09/20	P03
Revision Details	By	Check	Date	Suffix

DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

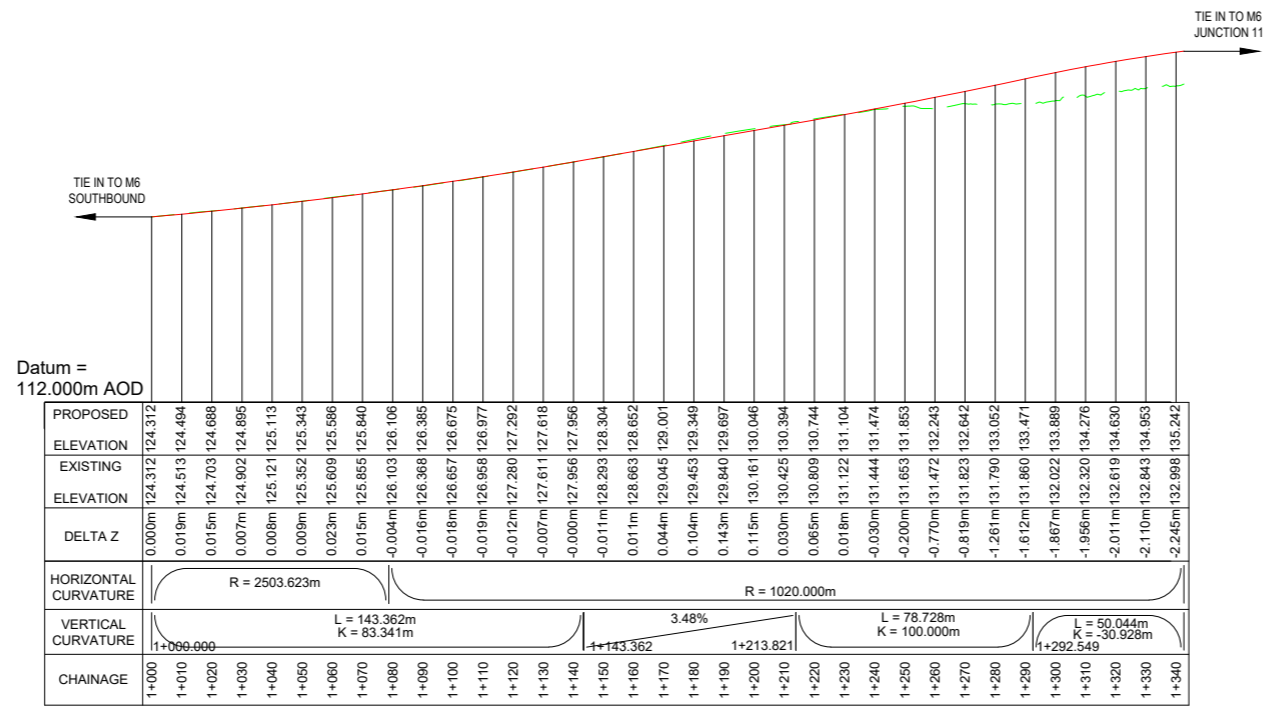
Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

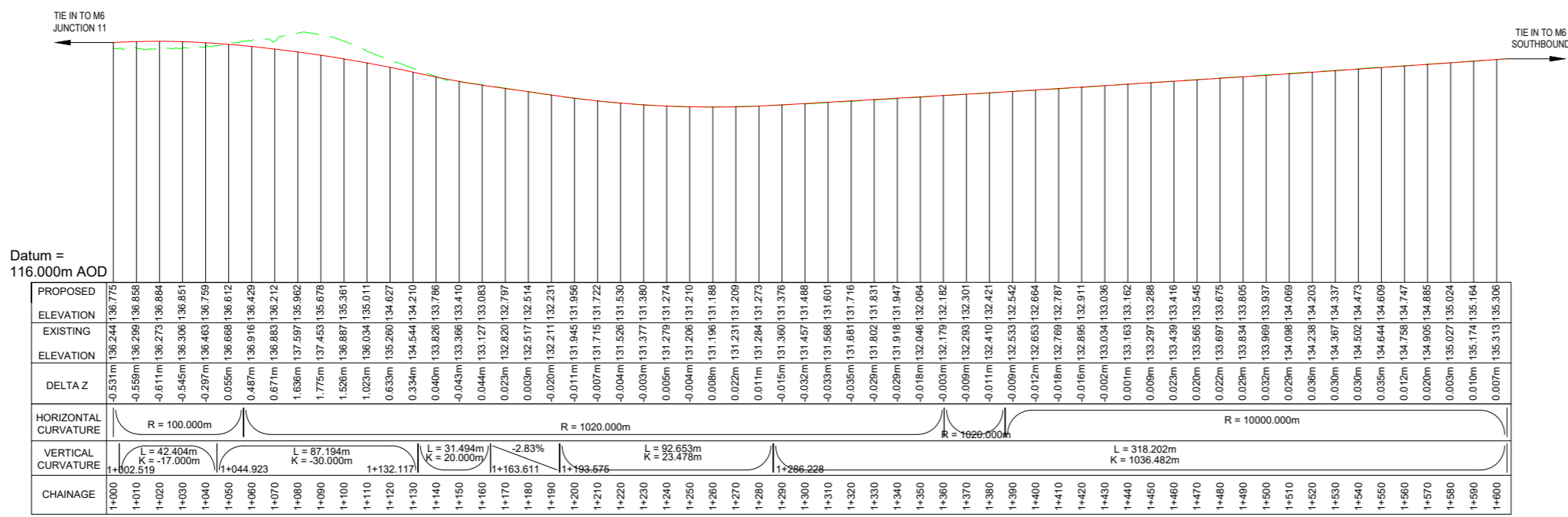
ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 12 OF 16

Designed	Drawn	Checked	Approved	Date
---	MW	JH	RR	22/09/20
Internal Project No.	Subsidiary			
60536736	S8			
Scale @ A1	Zone			
AS SHOWN/H/AS SHOWN/V	Development Consent Order			
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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P03
M54_SW_PR_Z		-DR-CH-1612		
Location	Type	Role	Number	



DESIGN SPEED 70kph
 (WORK No. 35)
 M6 J11 SOUTHBOUND DIVERGE
 LONGITUDINAL SECTION CH. 1000m - CH. 1340m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

- NOTES
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- KEY
- EXISTING GROUND
 - PROPOSED GROUND



DESIGN SPEED 70kph
 (WORK No. 34)
 M6 J11 SOUTHBOUND MERGE
 LONGITUDINAL SECTION CH. 1000m - CH. 1604m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

Revision Details	By	Check	Date	Suffix
First Issue	MW	RR	13/01/20	P01
Minor amendments.	MW	RR	22/01/20	P02
No change to section details. Green line made more visible.	MW	RR	22/09/20	P03

Purpose of Issue
DCO APPLICATION

Client
 Highways England
 Floor 5
 Two Colmore Square
 38 Colmore Circus
 Birmingham
 B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**ENGINEERING SECTIONS
 REGULATION 5(2)(O)
 SHEET 13 OF 16**

Designed	Drawn	Checked	Approved	Date
---	MW	JH	RR	22/09/20

Internal Project No. 60536736
 Scale @ A1
 AS SHOWN/HAS SHOWNV

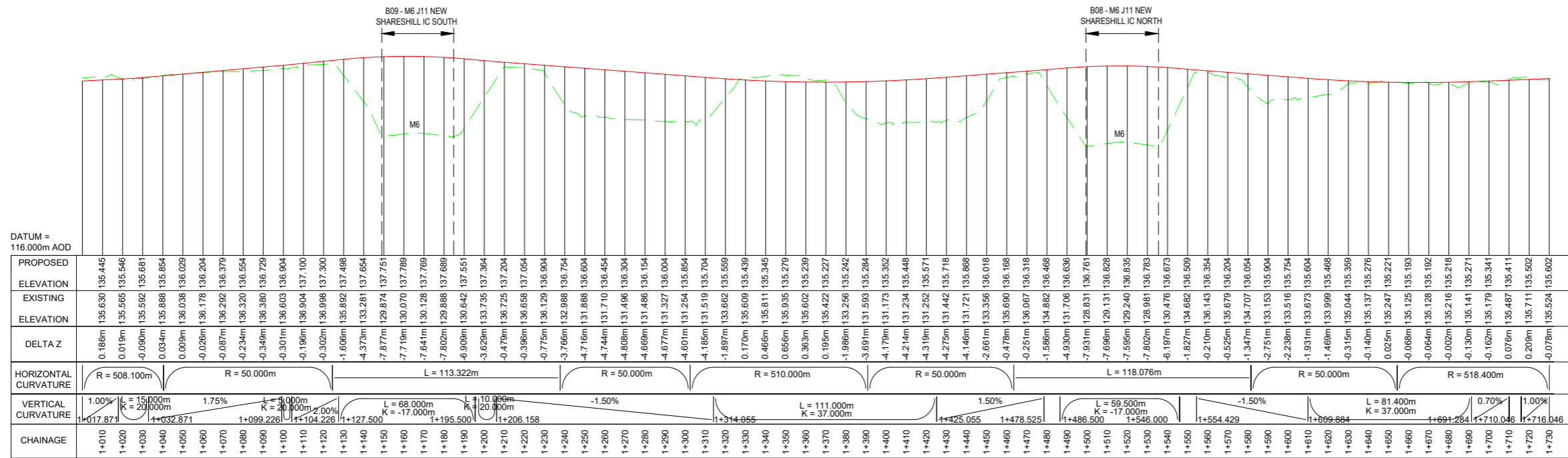
Suitability S8
 Zone Development Consent Order

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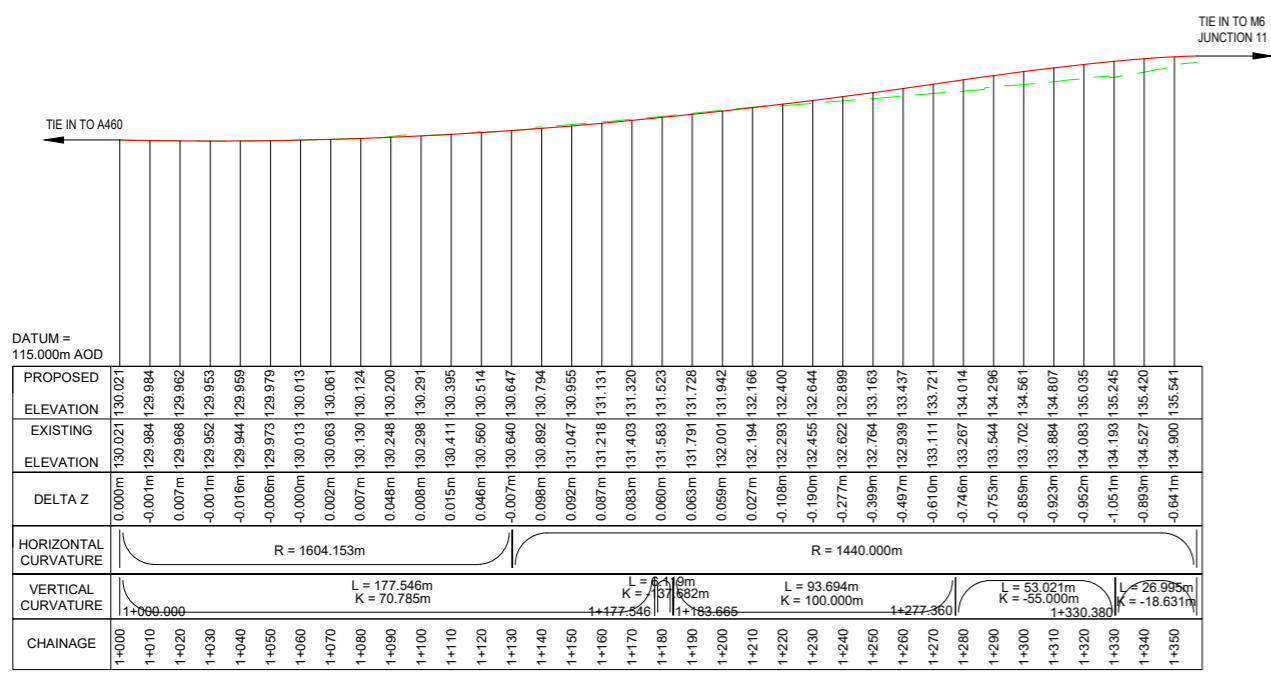
Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	P03
M54_SW_PR_Z	-DR-CH-1613		

- NOTES
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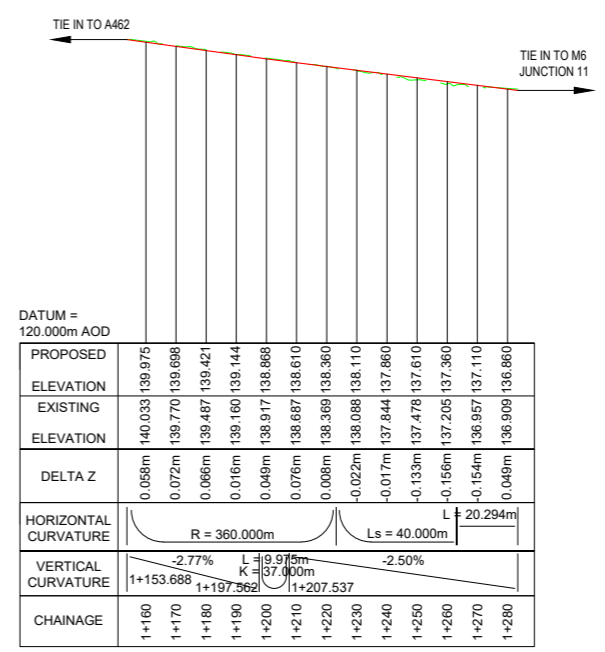
KEY
 EXISTING GROUND
 PROPOSED GROUND



DESIGN SPEED 60kph
 (WORK No. 36)
 M6 JUNCTION 11 CIRCULATORY
 LONGITUDINAL SECTION CH. 1000m - CH. 1730m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250



DESIGN SPEED 85kph
 (WORK No. 39)
 M6 JUNCTION 11 A460 NORTH ARM
 LONGITUDINAL SECTION CH. 1000m - CH. 1357m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250



DESIGN SPEED 100kph
 (WORK No. 37)
 A462
 LONGITUDINAL SECTION CH. 1160m - CH. 1280m
 SCALE @ A1 - HORIZ 1:1250 VERT 1:250

Revision	By	Date	Suffix
1301/20	MW		P01
2201/20	RR		P02
2209/20	MW		P03

DCO APPLICATION
 Client: Highways England
 Floor 5
 Two Colmore Square
 38 Colmore Circus
 Birmingham
 B4 6BN

Development Consent Order Number
TR010054

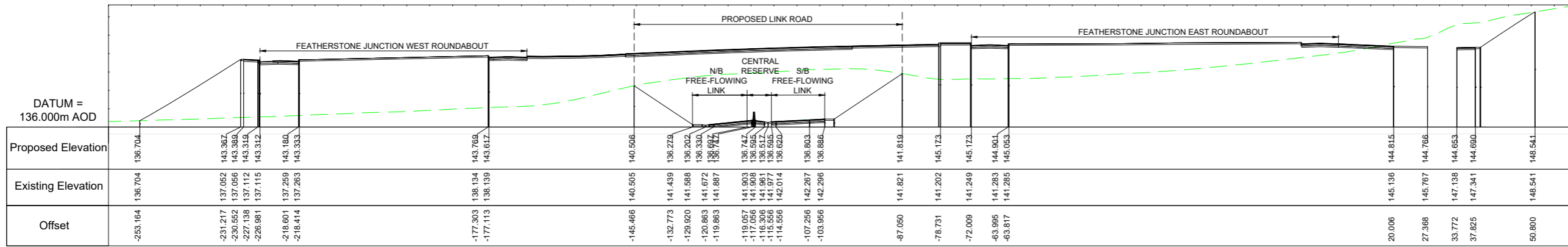
Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

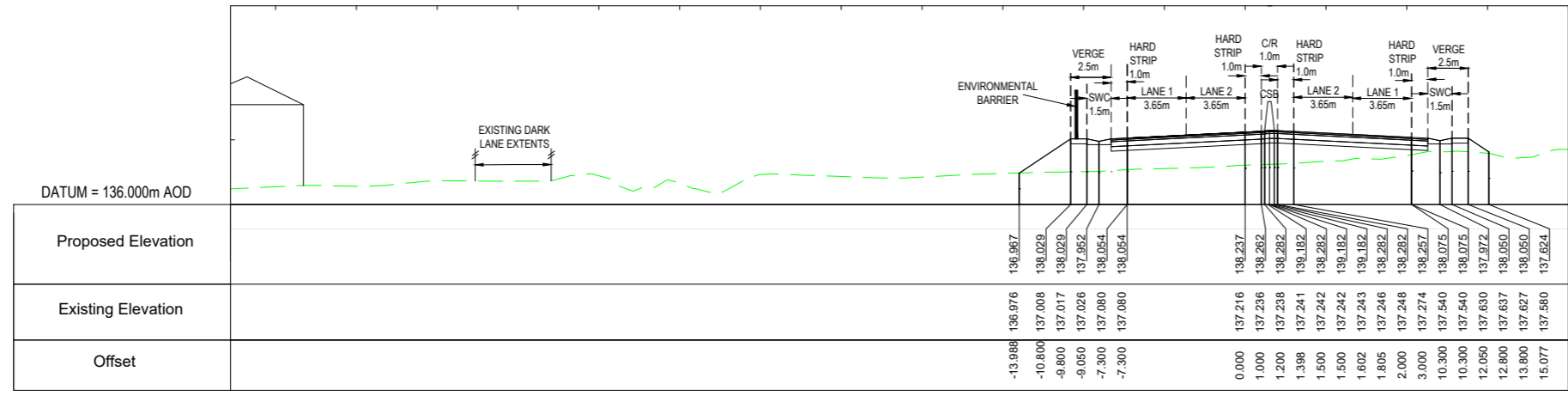
Drawing Title
**ENGINEERING SECTIONS
 REGULATION 5(2)(O)
 SHEET 14 OF 16**

Designed	Drawn	Checked	Approved	Date
---	MW	JH	RR	22/09/20

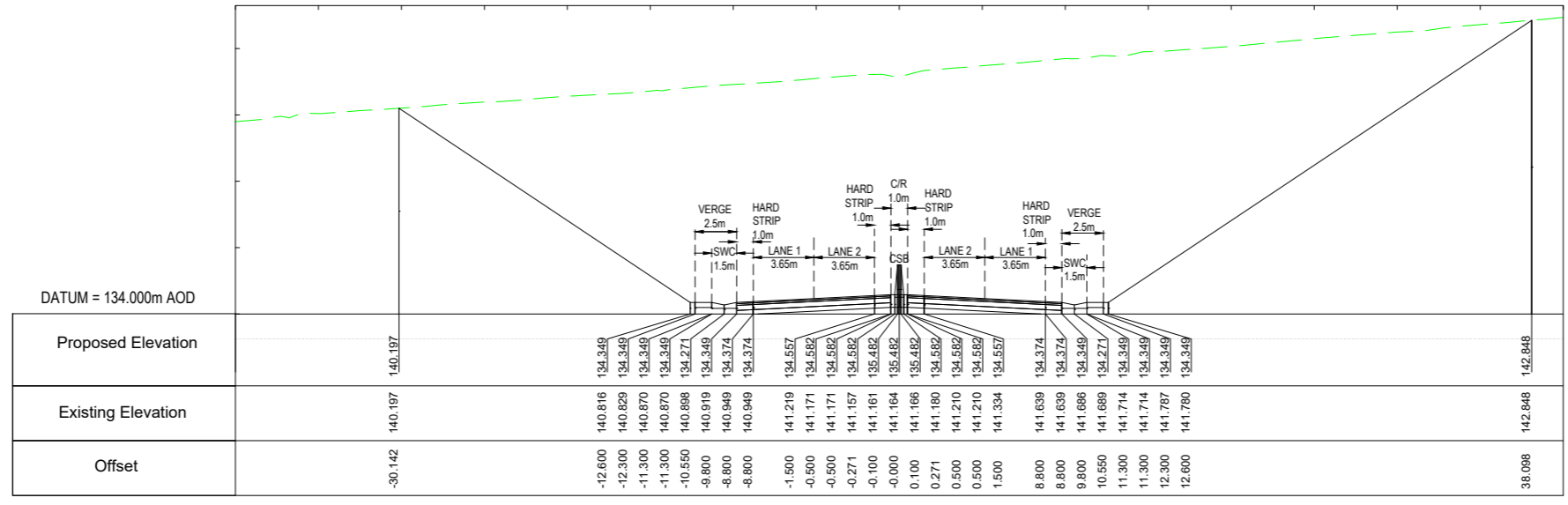
Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-	M54_SW_PR_Z	P03
			-DR-CH-1614	



SECTION A-A
M54 J1
V SCALE - 1:250 (VERTICAL EXAGGERATION x2)
H SCALE - 1:500

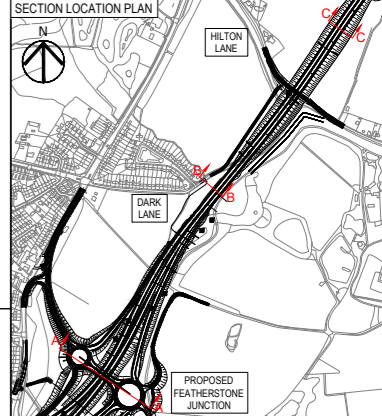


SECTION B-B
MAINLINE
Ch. 2403.000m
V SCALE - 1:100 (VERTICAL EXAGGERATION x2)
H SCALE - 1:200



SECTION C-C
MAINLINE
Ch. 2940.000m
V SCALE - 1:100 (VERTICAL EXAGGERATION x2)
H SCALE - 1:200

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- KEY
- EXISTING GROUND
 - PROPOSED GROUND

First Issue	MW	20/01/20	P01
Updated to reflect Oct 2020 scheme changes.	AM	22/09/20	P02

DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 15 OF 16

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20

Internal Project No.
60536736

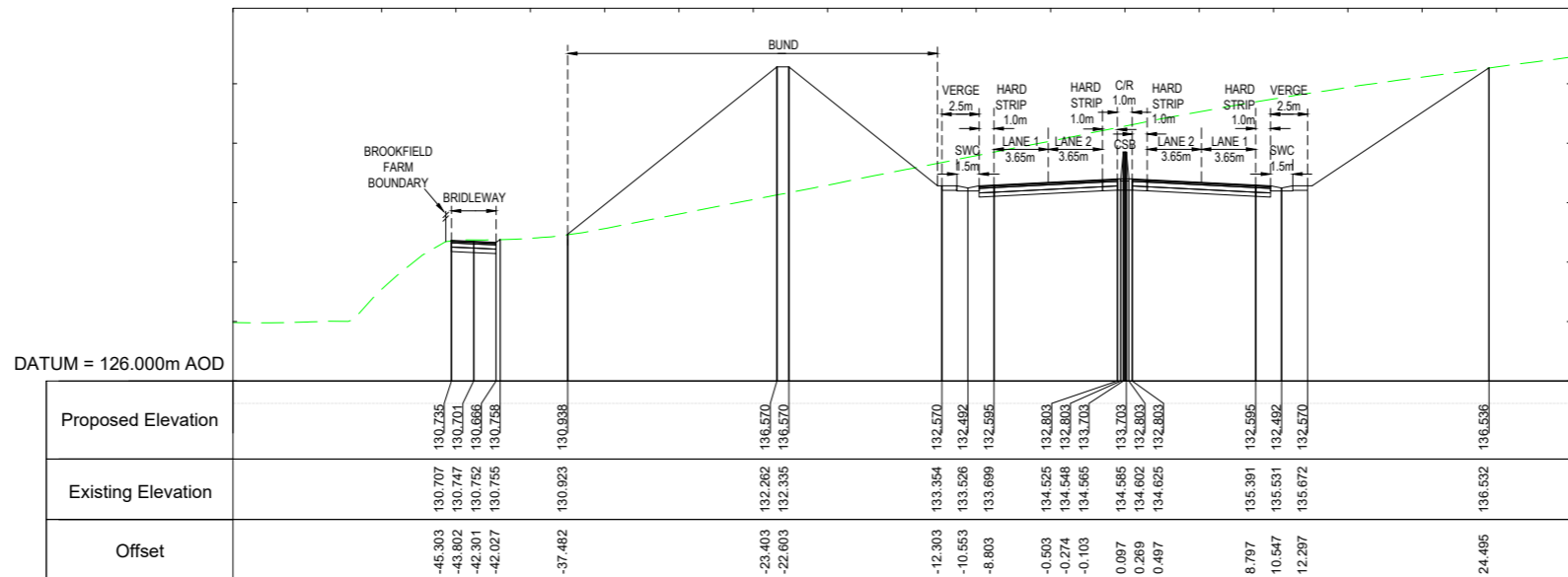
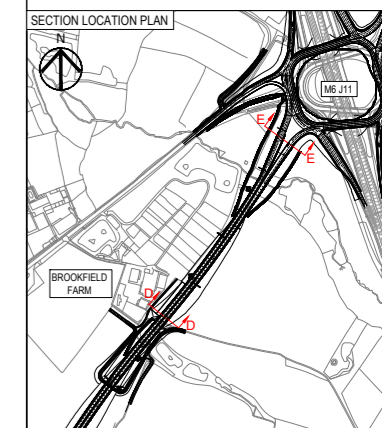
Suitability
S8

Scale @ A1
AS SHOWN/HAS SHOWNV

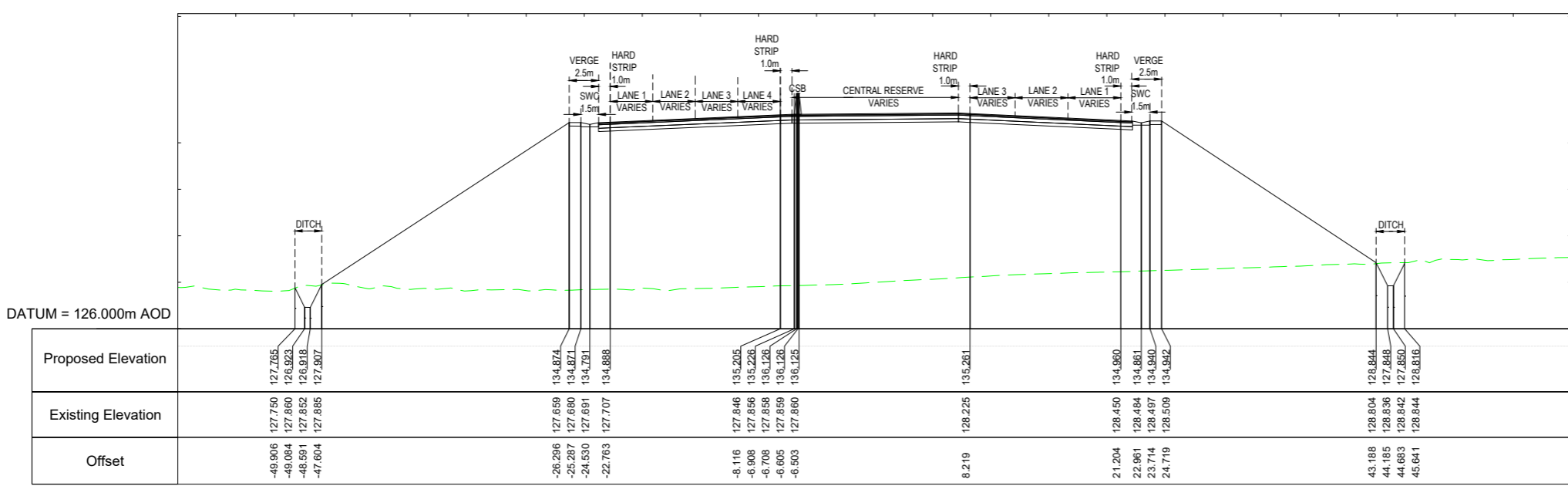
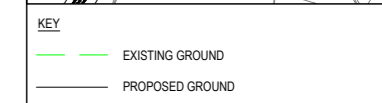
Zone
Development Consent Order

Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P02
M54_SW_PR_Z		-DR-CH-1615		

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SECTION D-D
Ch. 3295.000m
MAINLINE
V SCALE - 1:125 (VERTICAL EXAGGERATION x2)
H SCALE - 1:250



SECTION E-E
MAINLINE
Ch. 3853.000m
V SCALE - 1:125 (VERTICAL EXAGGERATION x2)
H SCALE - 1:250

First Issue	MW	2001/20	P01
Updated to reflect Oct 2020 scheme changes.	AM	22/09/20	P02
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

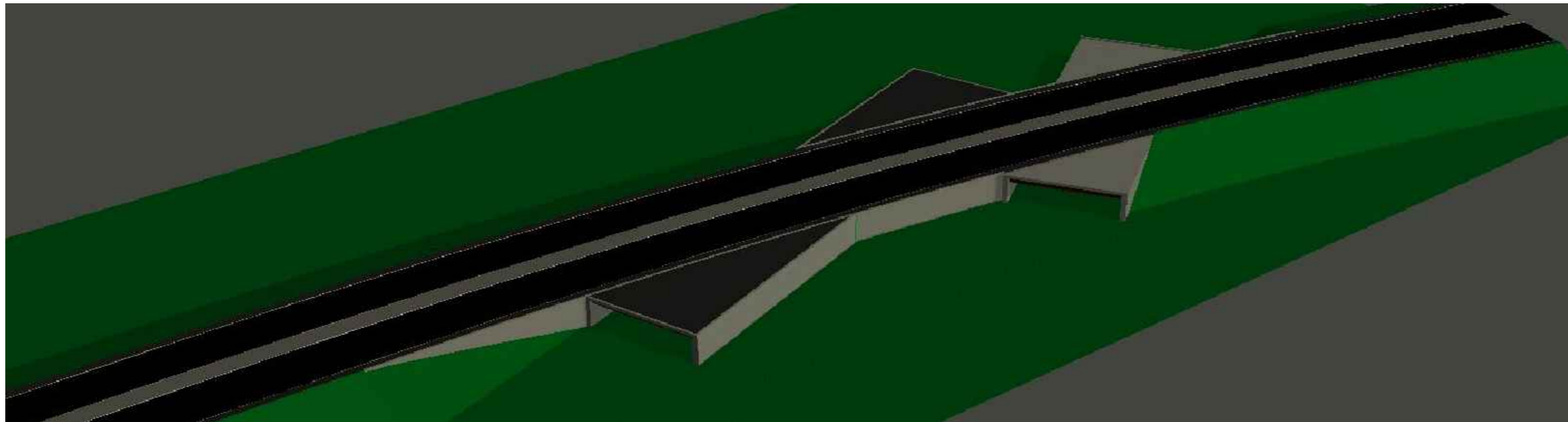
Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

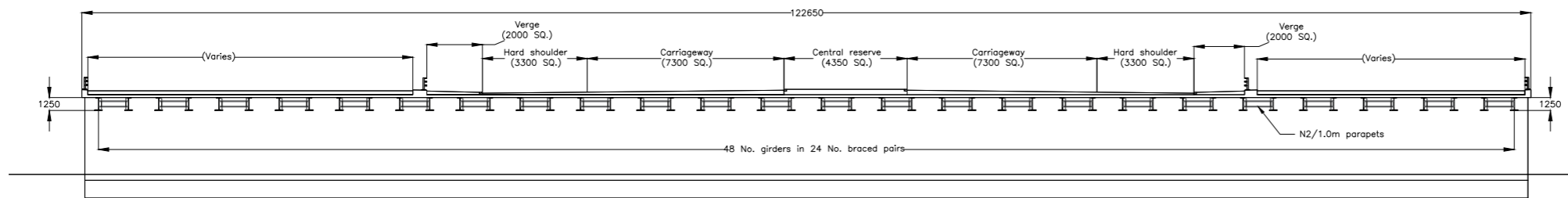
Drawing Title
**ENGINEERING SECTIONS
REGULATION 5(2)(O)
SHEET 16 OF 16**

Designed	Drawn	Checked	Approved	Date
---	AM	AM	RR	22/09/20
Internal Project No. 60536736	Suitability S8	Scale @ A1	Zone	Development Consent Order
AS SHOWN/AS SHOWNV				
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Drawing Number HE514465	Highways England PIN -ACM	Originator -DCO-	Volume -DR-CH-1616	Rev P02
M54_SW_PR_Z				
Location	Type	Role	Number	

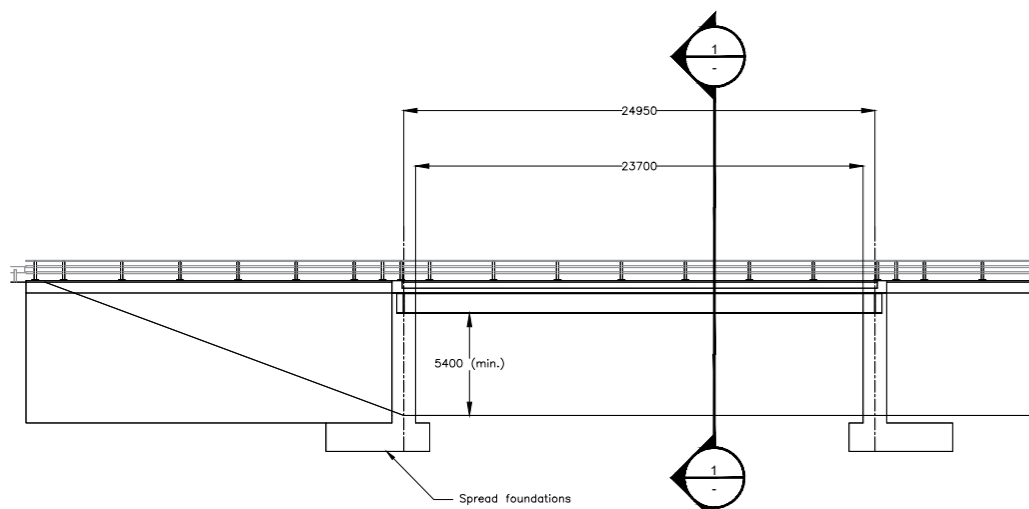


3D VISUALISATION
NTS

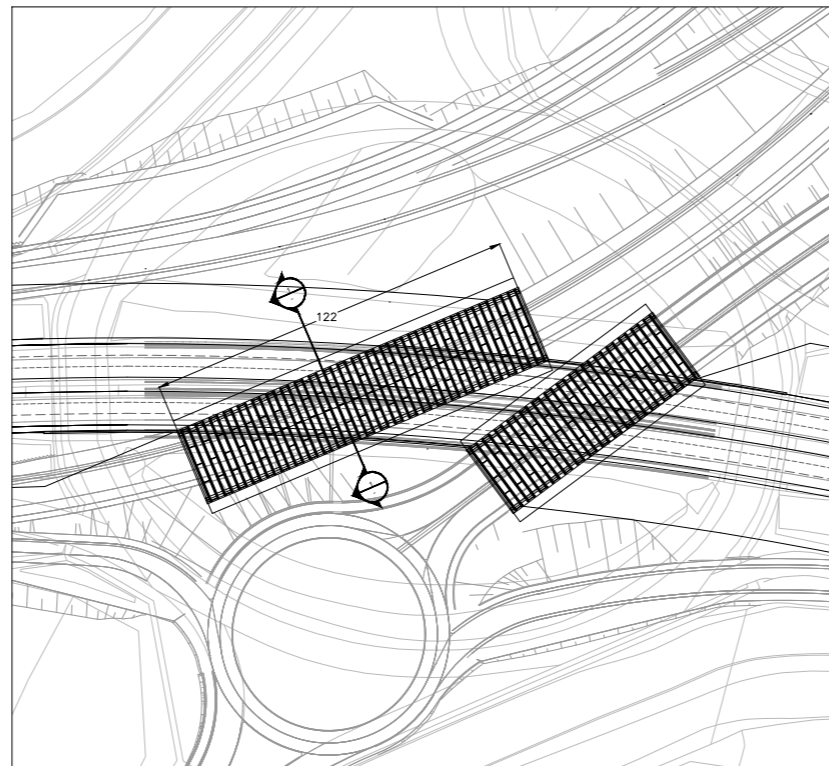
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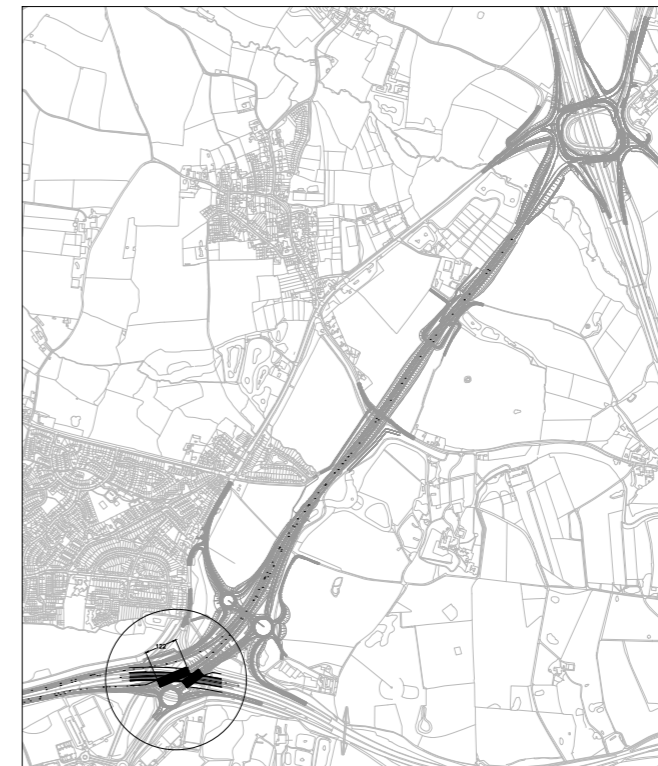
SECTION 1-1
Scale 1:100



ELEVATION A
Scale 1:200



PLAN
1:1250



KEY PLAN
NTS

Revision Details	By	Check	Date	Suffix
FIRST ISSUE	BR	BR	23/01/20	P01
GA updated	BR	BR	30/09/20	P02

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
38 Colmore Circus
Birmingham
B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B01
M54 J1 FREE FLOW LINK
UNDERBRIDGE**

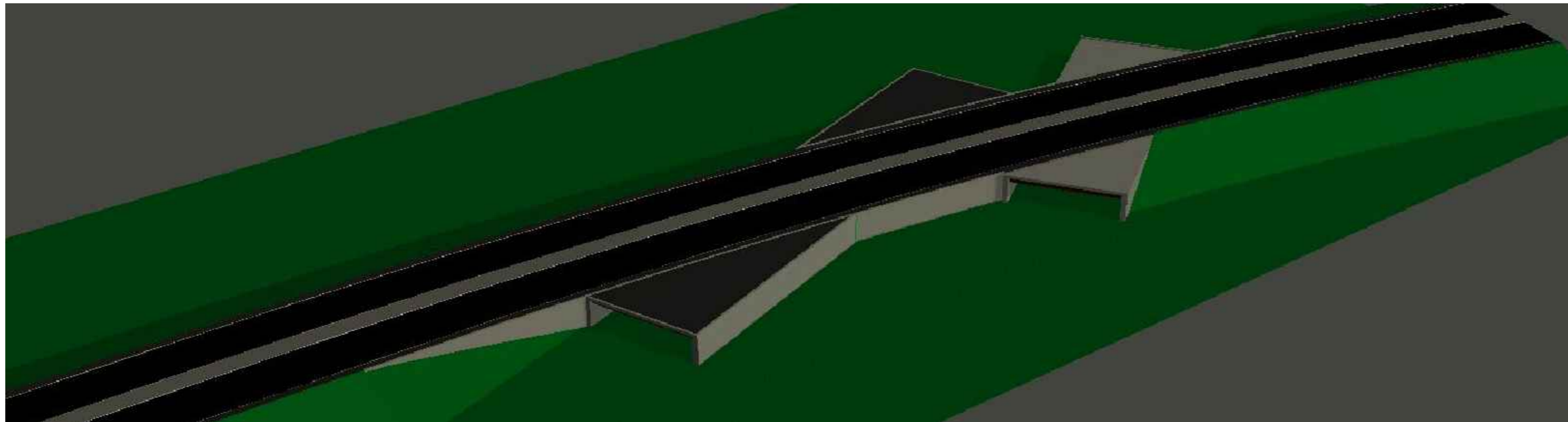
Designed	Drawn	Checked	Approved	Date
BR	BR	BR	BR	30/09/20

Internal Project No. 60536736
Scale @ A1

Suitability S8
Zone
Development Consent Order

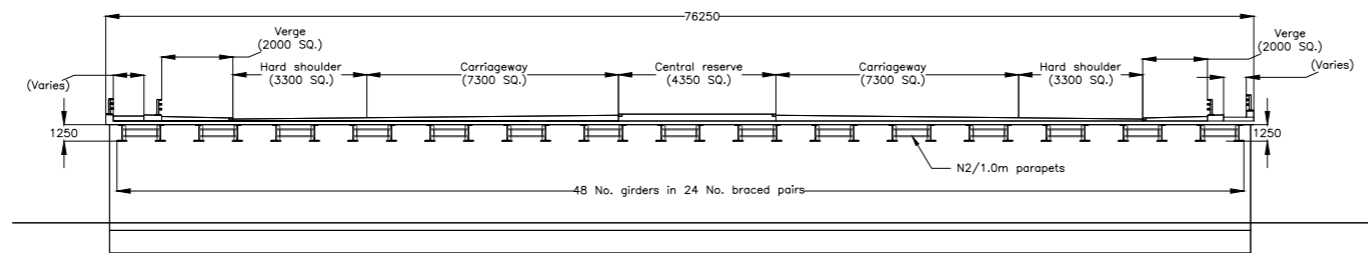
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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P02
Z1 BR_B01_Z		-DR-CB-1001		

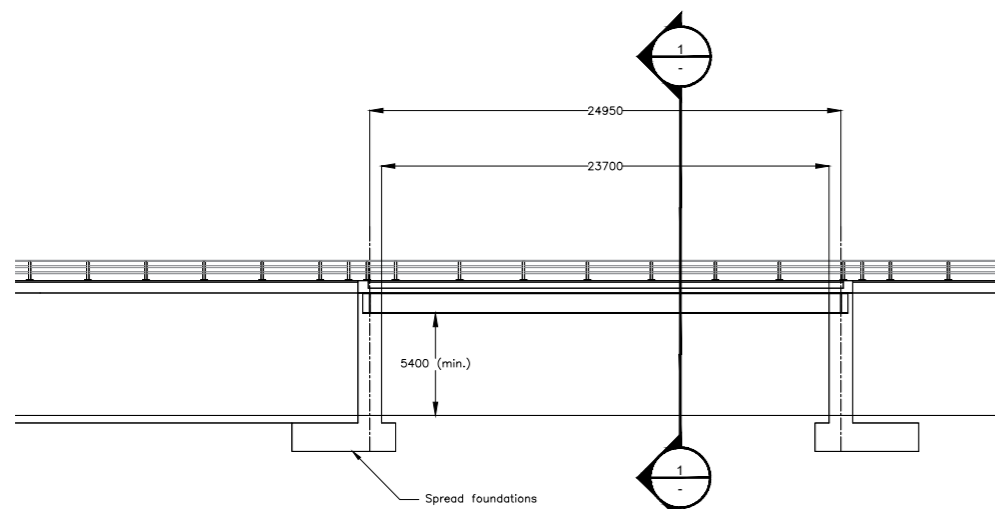


3D VISUALISATION
NTS

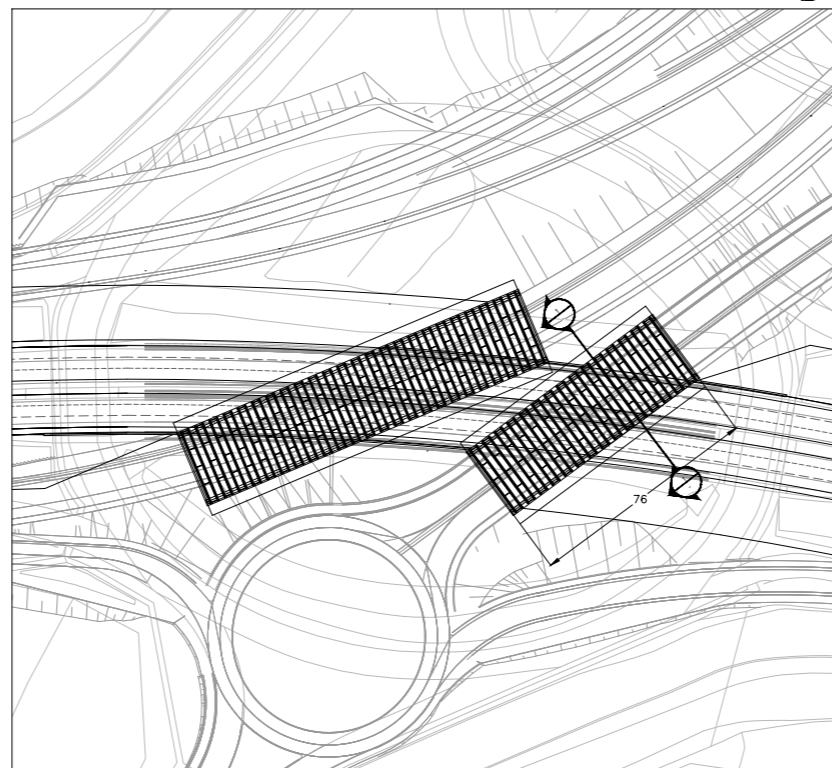
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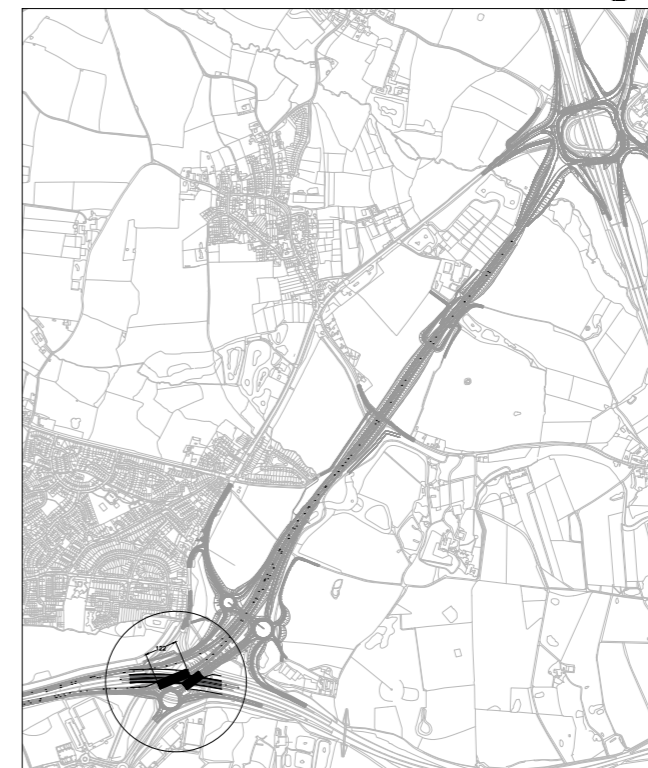
SECTION 1-1
Scale 1:100



ELEVATION A
Scale 1:200



PLAN
1:1250



KEY PLAN
NTS

First Issue	BR	30/09/20	P01
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

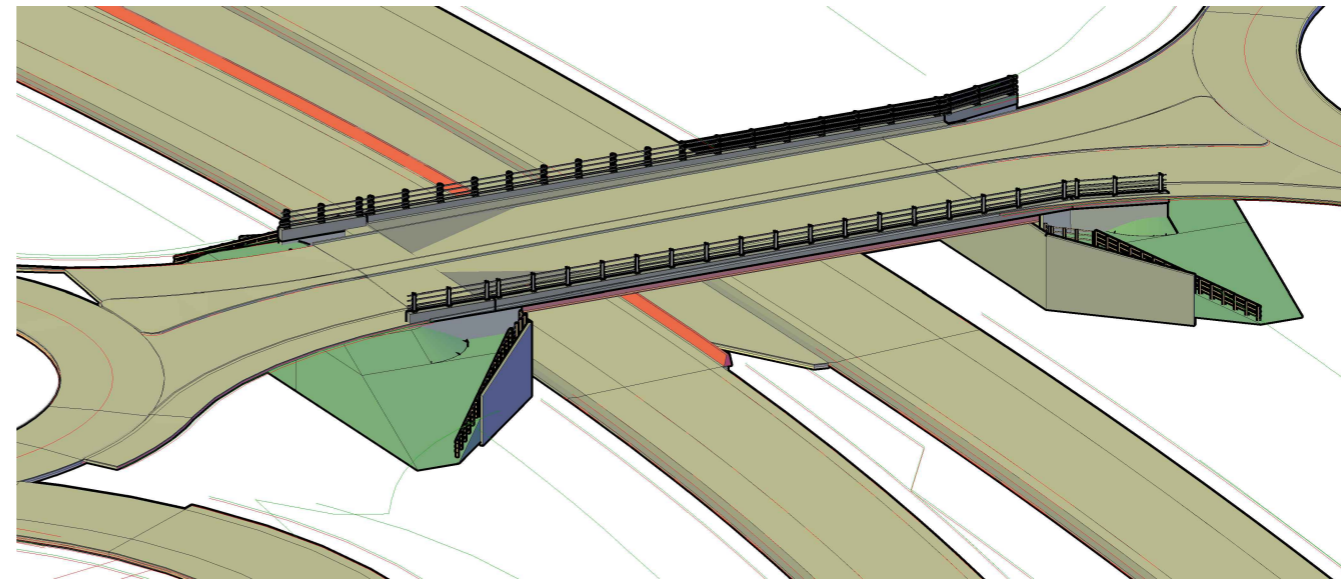
Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B02
M54 J1 LINK ROAD
UNDERBRIDGE**

Designed	Drawn	Checked	Approved	Date
---	BR	BR	BR	30/09/20
Internal Project No.	Suitability			
60536736	S8			
Scale @ A1	Zone			
	Development Consent Order			

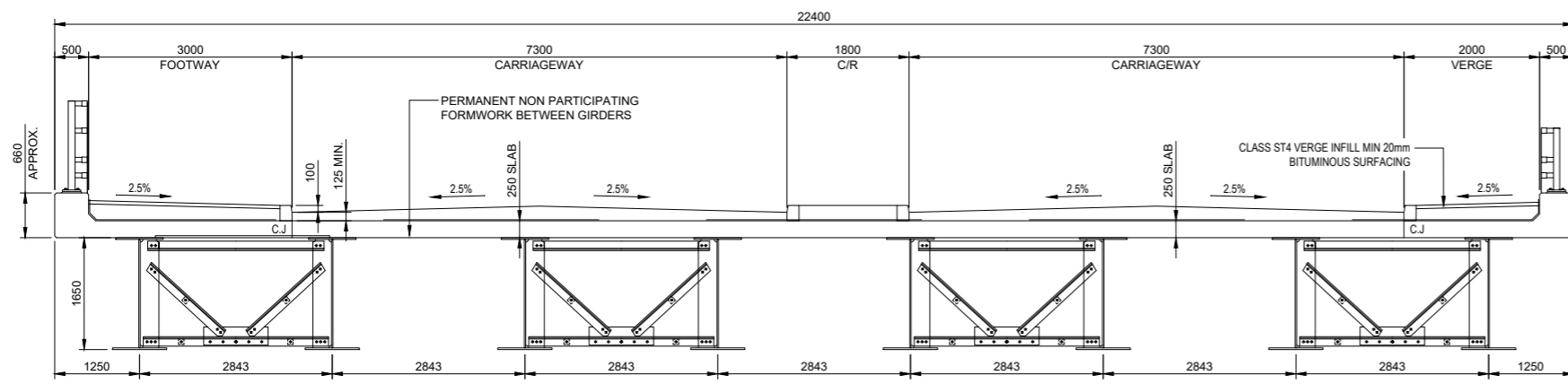
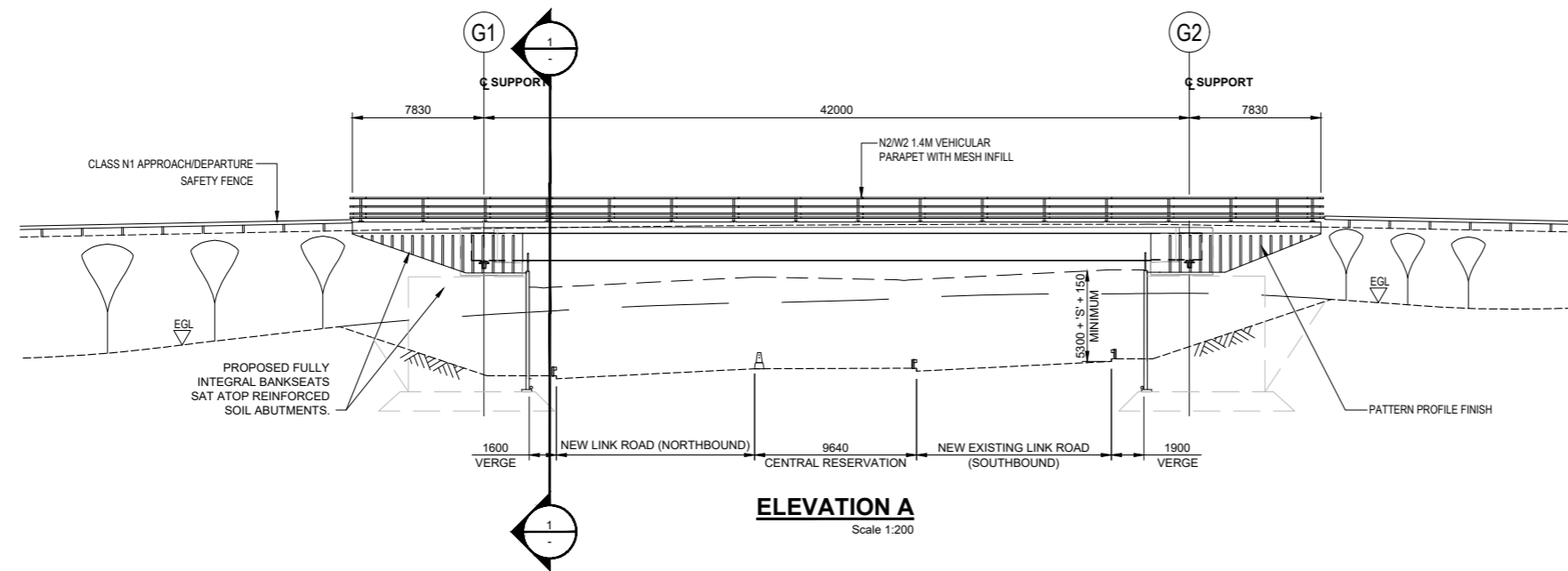
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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P01
Z1 BR_B02_Z		-DR-CB-1002		
Location	Type	Role	Number	



3D VISUALISATION
NTS

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First Issue	By	BR	Date	23/01/20	PO1
Revision Details	Check				Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

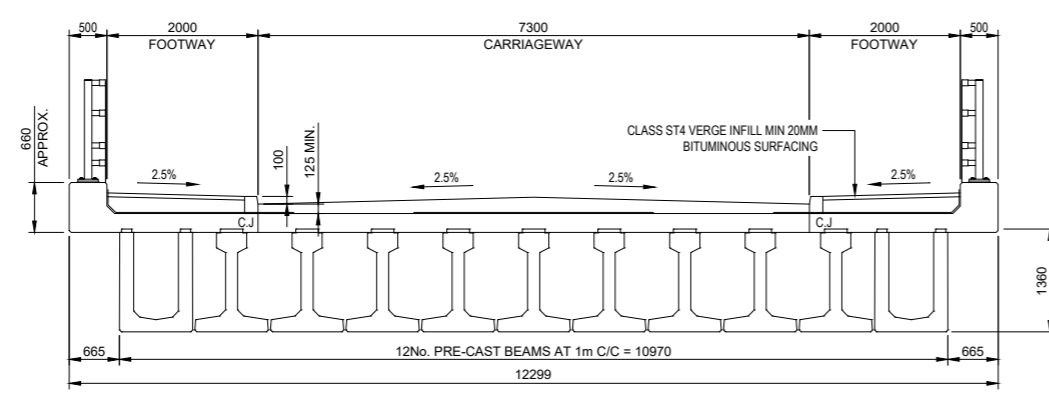
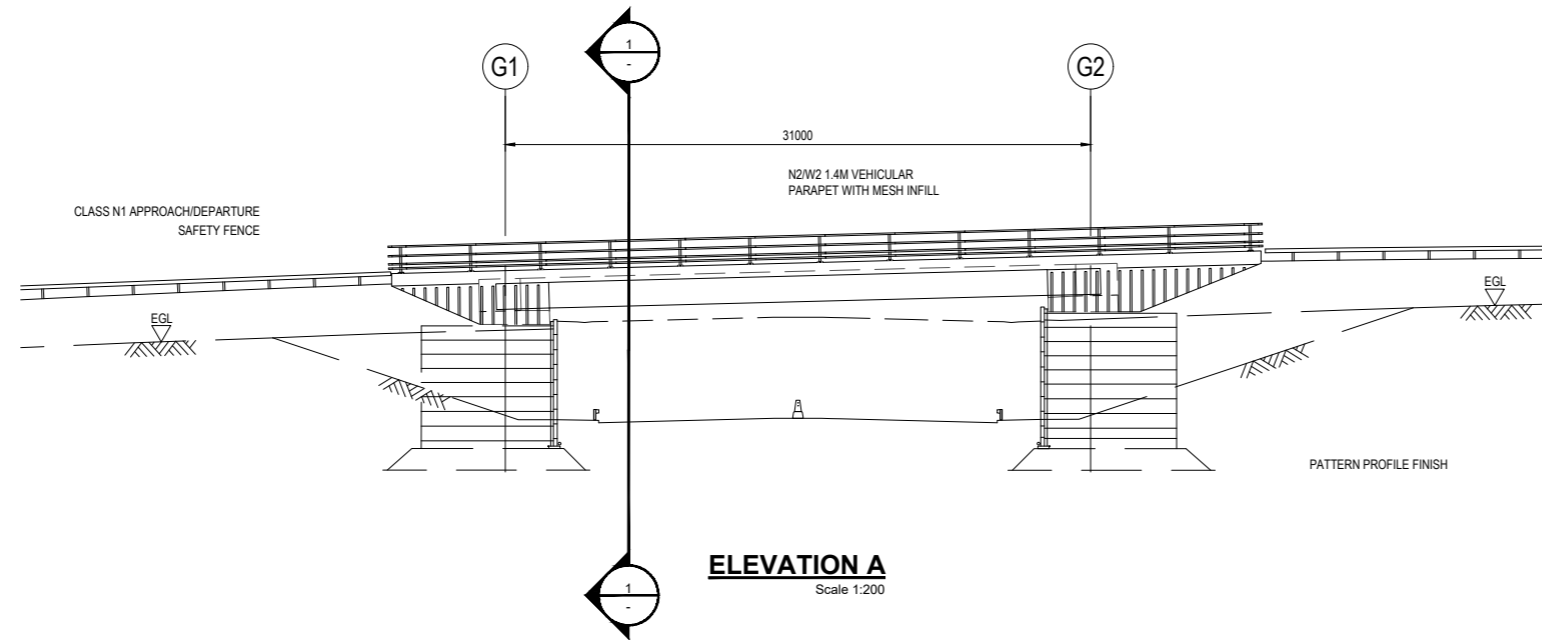
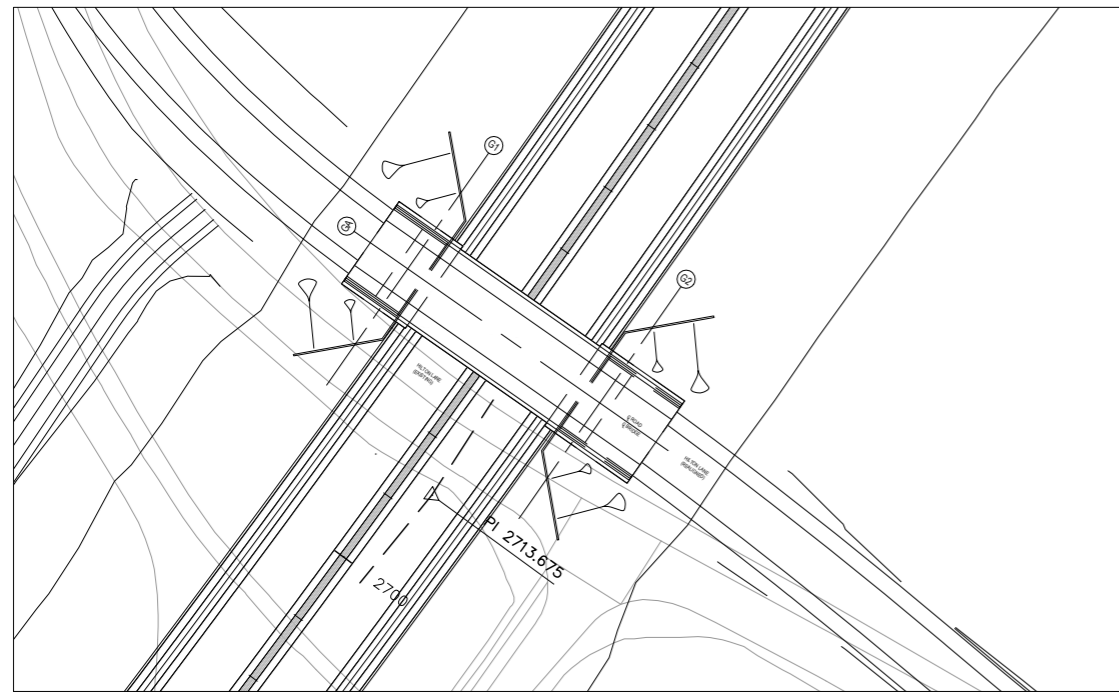
Drawing Title
**BRIDGE B03
FEATHERSTONE JUNCTION
OVERBRIDGE**

Designed BR	Drawn	Checked	Approved BR	Date 23/01/20
Internal Project No. 60536736	Suitability S8		Zone Development Consent Order	

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Drawing Number HE514465	Originator -ACM	Volume -DCO-	Rev P01
Z1	BR_B03_Z	-DR-CB-1001	
Location	Type	Role	Number

Rev: 01 Date: 29 January 2020 09:38:31
File Name: ...
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Revision Details	By	Check	Date	Suffix
First Issue	BR		23/01/20	P01
Plan added, alignment revised	BR		29/09/20	P02

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B05
HILTON LANE
OVERBRIDGE**

Designed	Drawn	Checked	Approved	Date
BR		BR	BR	29/09/20

Internal Project No. 60536736
Scale @ A1

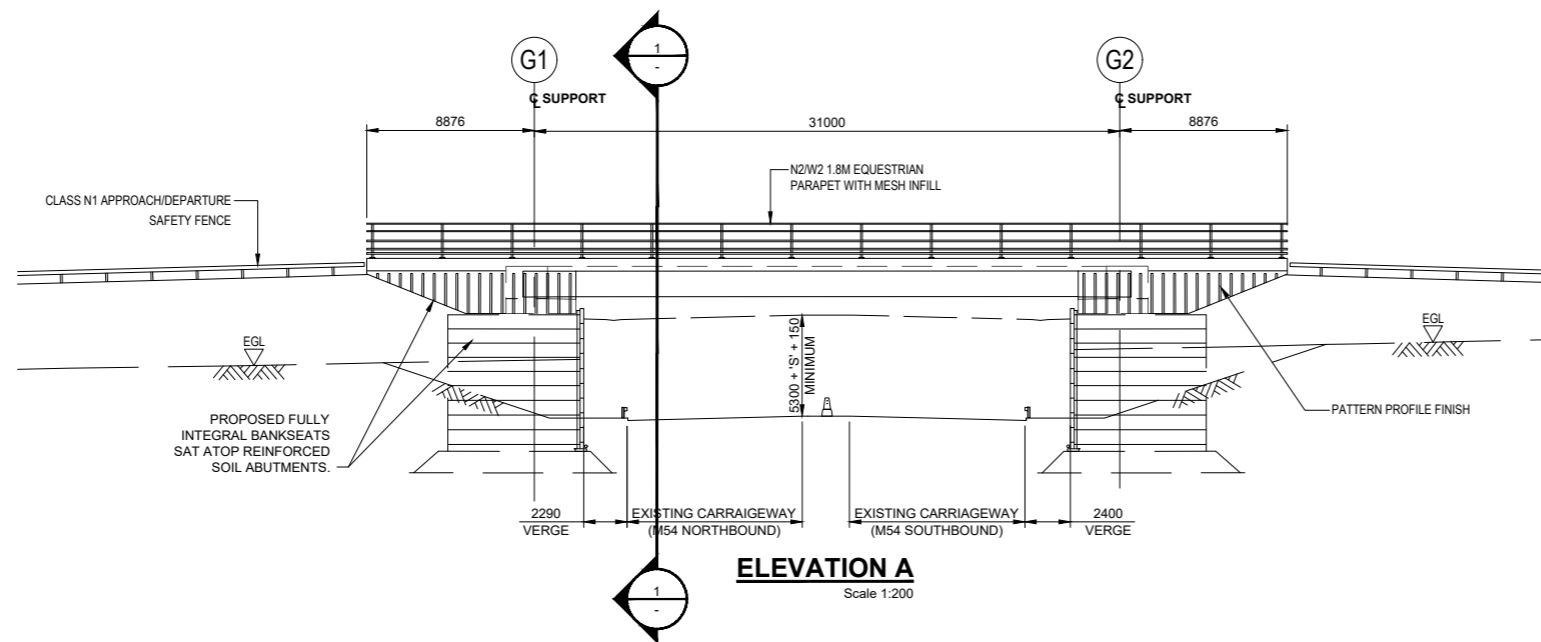
Suitability S8
Zone Development Consent Order

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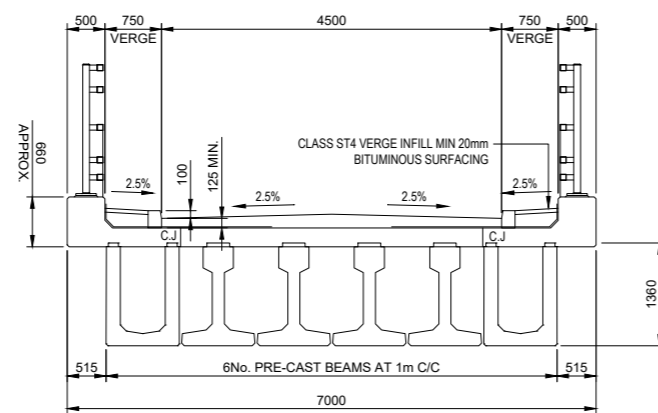
Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P02
Z2 BR_B05_Z		-DR-CB-1001		



3D VISUALISATION
NTS



ELEVATION A
Scale 1:200



SECTION 1-1
Scale 1:50



KEY PLAN
Scale 1:2000

NOTES

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First Issue	By	BR	23/01/20	P01
Revision Details	Check		Date	Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B06
RIDE FARM
ACCOMODATION BRIDGE**

Designed	Drawn	Checked	Approved	Date
BR			BR	23/01/20

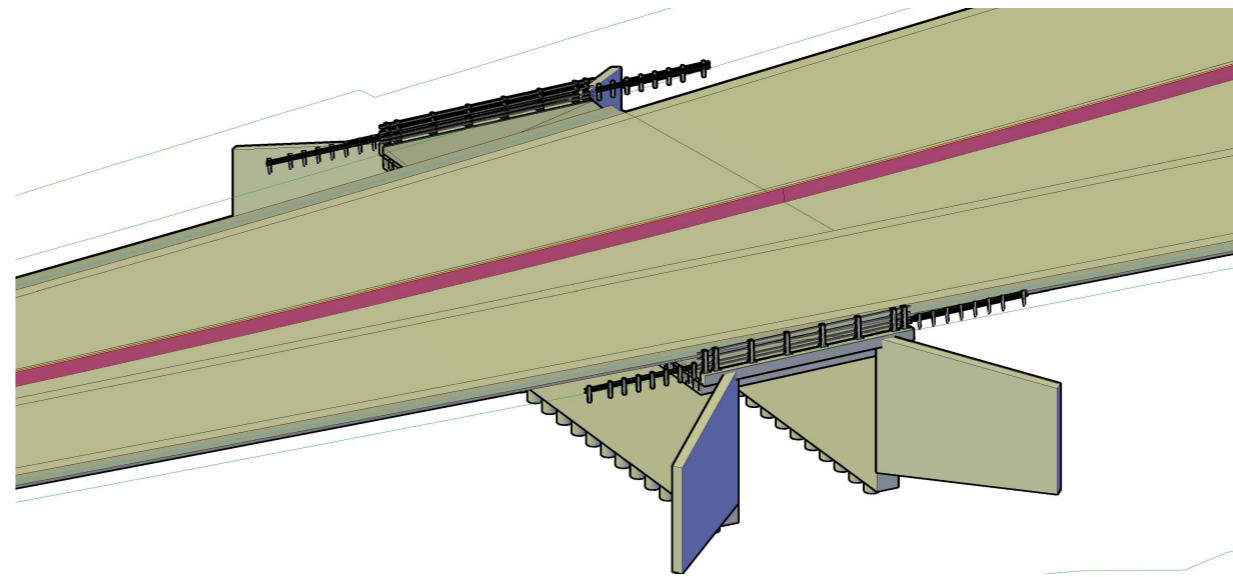
Internal Project No.
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Suitability
S8

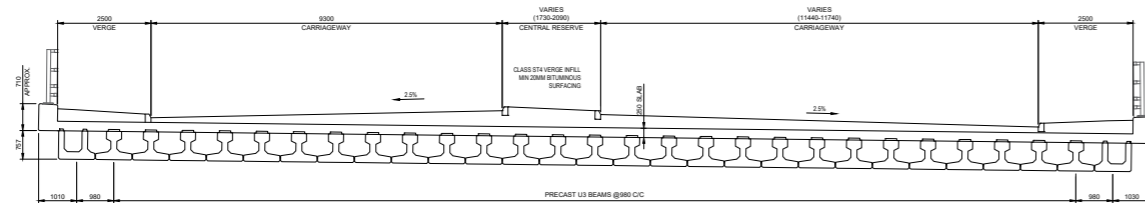
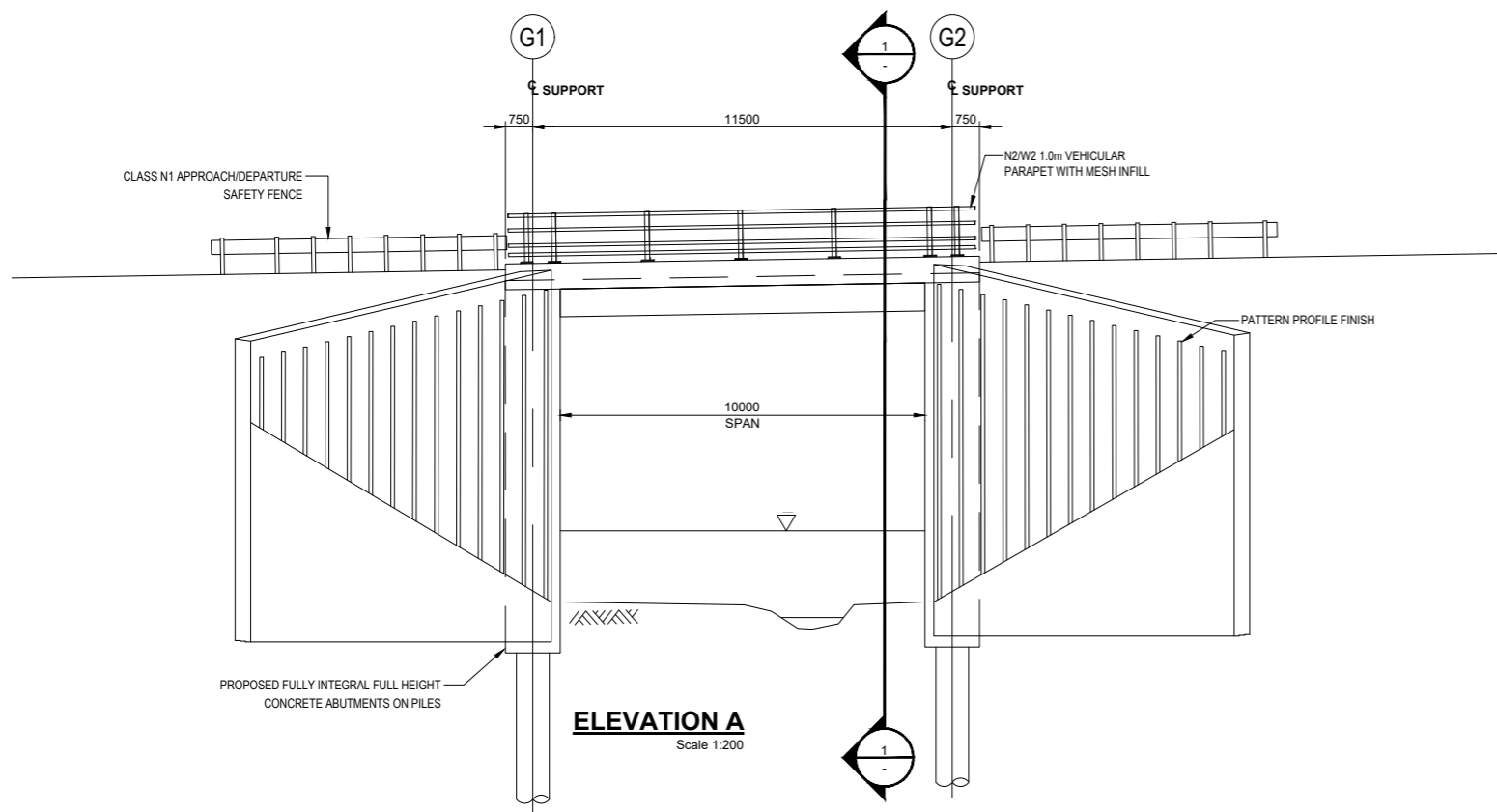
Scale @ A1
Zone
Development Consent Order

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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P01
Z2 BR_B06_Z		-DR-CB-1001		
Location	Type	Role	Number	



3D VISUALISATION
NTS



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First Issue	BR	23/01/20	P01
Carriageway revised	BR	29/09/20	P02
Revision Details	By	Date	Suffix
	Check		

Purpose of issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN

Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B07
SHARESHILL
FLOOD CROSSING**

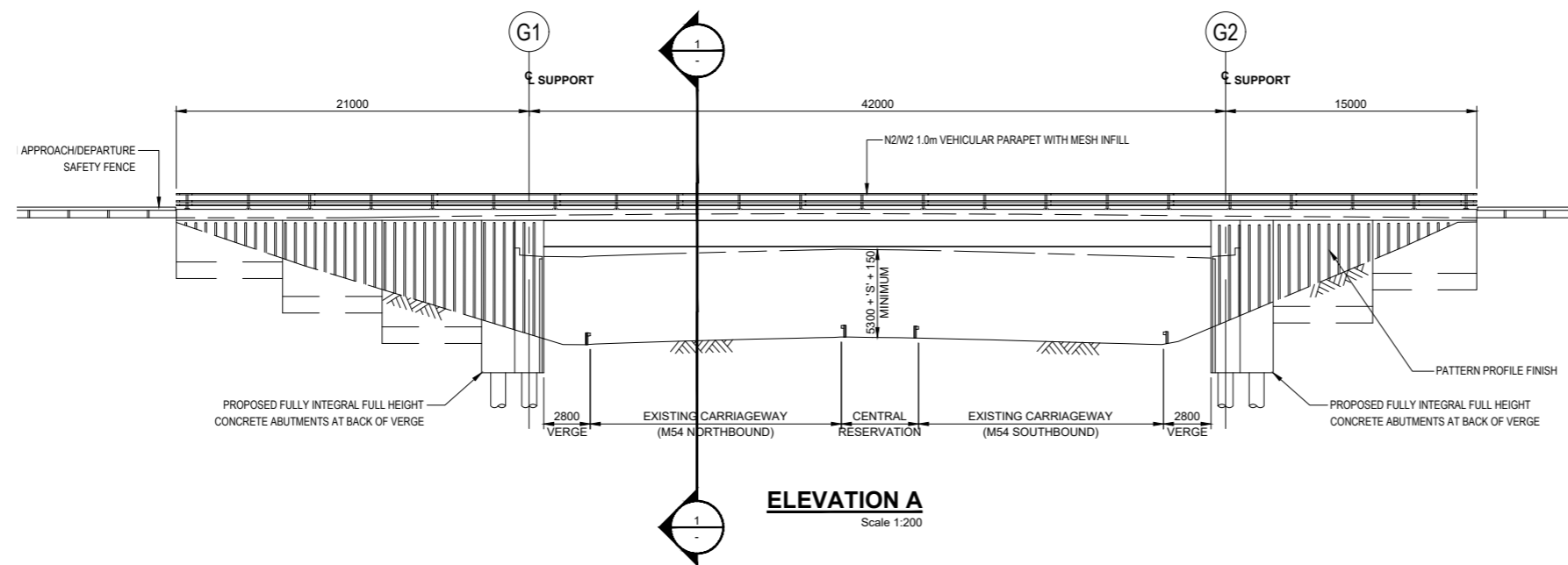
Designed BR	Drawn	Checked BR	Approved BR	Date 29/09/20
Internal Project No. 60536736	Suitability S8		Zone Development Consent Order	

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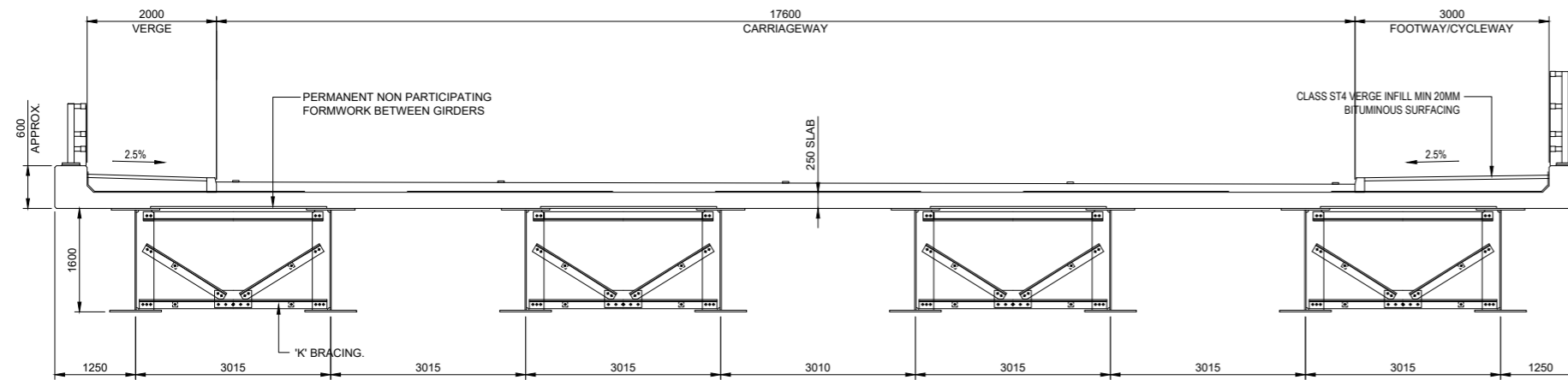
Drawing Number HE514465	Originator -ACM	Volume -DCO-	Rev P02
Localities Z2 BR_B07_Z	Type -DR-CB-	Role 1001	Number



3D VISUALISATION (LOOKING NORTH)
NTS



ELEVATION A
Scale 1:200



SECTION 1-1
Scale 1:50



KEY PLAN
Scale 1:2000

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First Issue	By	BR	23/01/20	P01
Revision Details	Check	Date	Suffix	

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B08
M6 J11 NEW SHARESILL
INTERCHANGE (NORTH)**

Designed	Drawn	Checked	Approved	Date
BR			BR	23/01/20

Internal Project No.
60536736

Suitability
S8

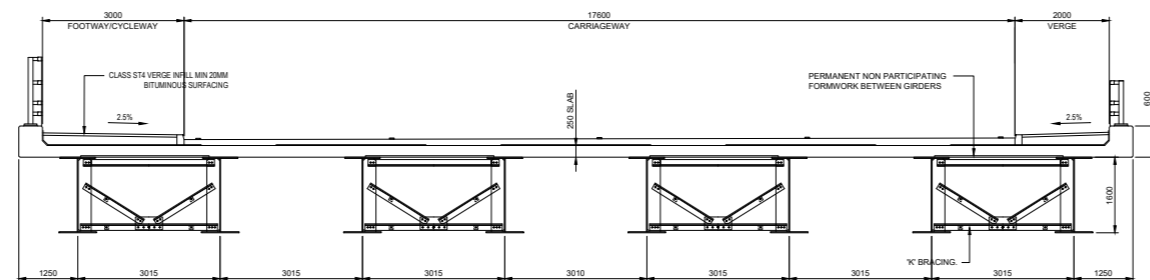
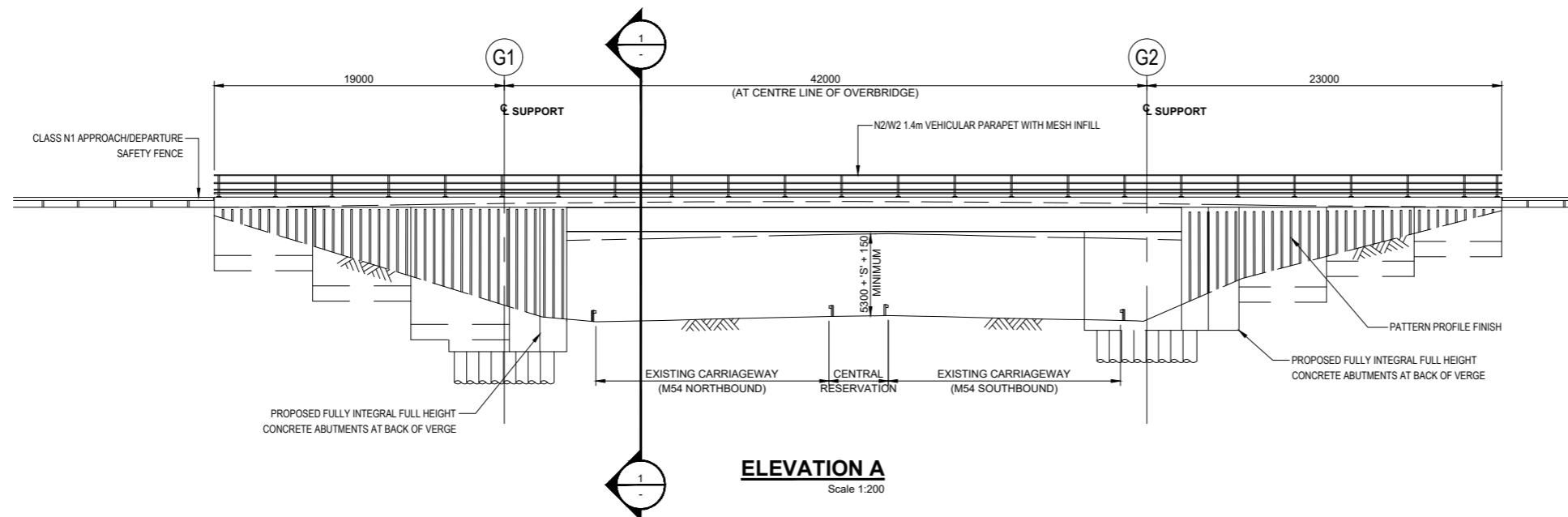
Scale @ A1
Zone
Development Consent Order

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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P01
Z3 BR_B08_Z		-DR-CB-1001		
Location	Type	Role	Number	



3D VISUALISATION (LOOKING SOUTH)
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First Issue	By	BR	23/01/20	P01
Revision Details	Check		Date	Suffix

Purpose of Issue
DCO APPLICATION

Client
Highways England
Floor 5
Two Colmore Square
38 Colmore Circus
Birmingham
B4 6BN



Development Consent Order Number
TR010054

Project Title
M54 to M6 Link Road

Development Consent Order Drawing Number
TR010054/APP/2.10

Drawing Title
**BRIDGE B09
M6 J11 NEW SHARESILL
INTERCHANGE (SOUTH)**

Designed	Drawn	Checked	Approved	Date
BR			BR	23/01/20
Internal Project No.	Suitability			
60536736	S8			
Scale @ A1	Zone			
	Development Consent Order			

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Drawing Number	Highways England PIN	Originator	Volume	Rev
HE514465	-ACM	-DCO-		P01
Z3 BR_B09_Z		-DR-CB-1001		
Location	Type	Role	Number	