

A46 Newark Bypass

TR010065/APP/2.6

2.6 Engineering Plans and Sections Part 2 – Plan and Profiles

APFP Regulation 5(2)(o), 5(2)(p) and 6(2)

Planning Act 2008

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

Volume 2

April 2024

Infrastructure Planning

Planning Act 2008

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

A46 Newark Bypass

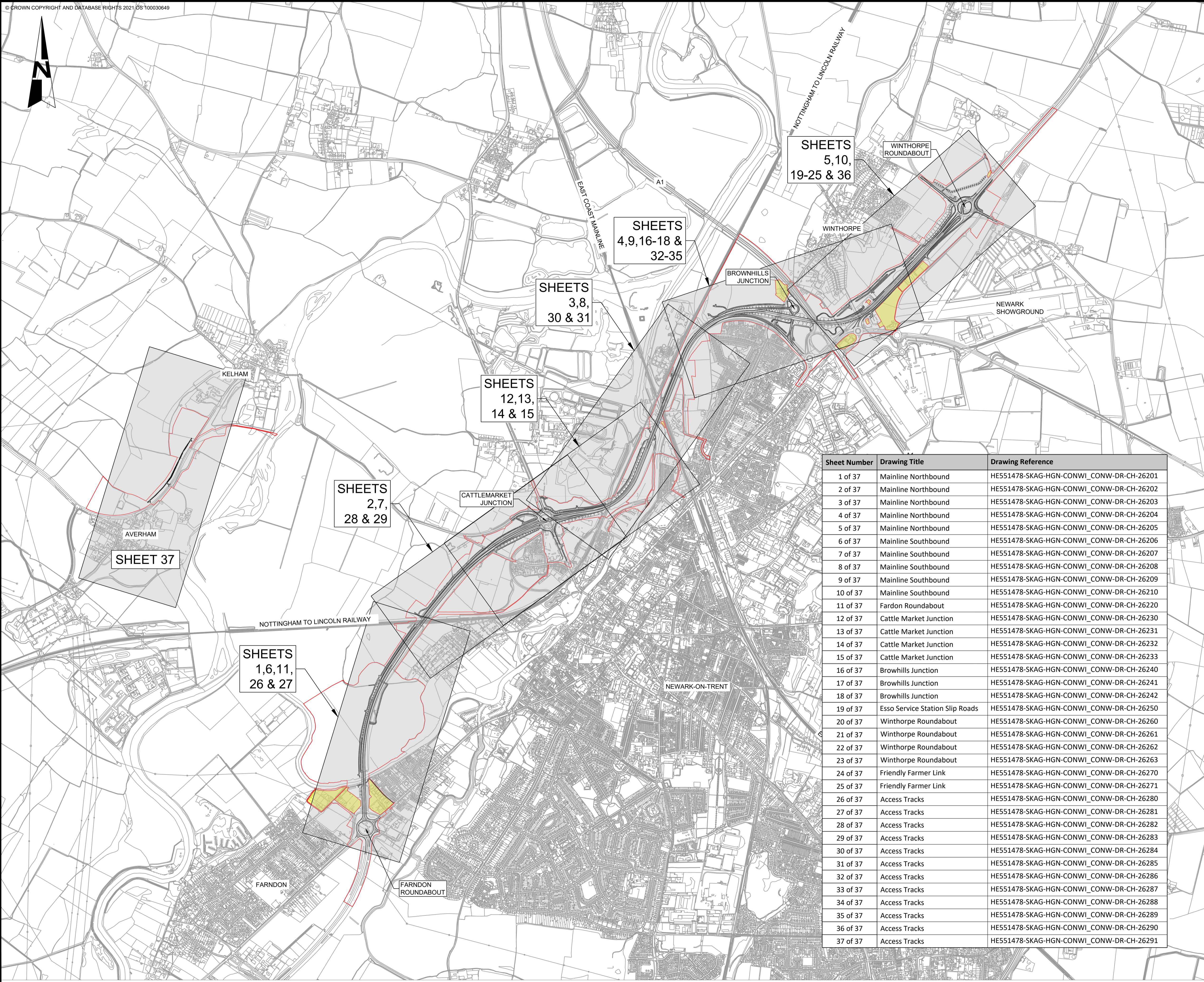
Development Consent Order 202[x]

Engineering Plans and Sections

Part 2 – Plan and Profiles

Regulation Number:	Regulation 5(2)(o), 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010065
Application Document Reference	TR010065/APP/2.6
Author:	A46 Newark Bypass Project Team, National Highways

Version	Date	Status of Version
Rev 1	April 2024	DCO Application



NOTES
 1. THE PURPOSE OF THIS DRAWING IS TO SUPPORT THE A46 NEWARK BYPASS DEVELOPMENT CONSENT ORDER (DCO) AND ACCOMPANYING APPLICATION DOCUMENTATION. (TR010065/APP/3.1)

KEY:
 — ORDER LIMITS
 — DESIGN LAYOUT
 ■ LAND NOT INCLUDED IN ORDER LIMITS

Sheet Number	Drawing Title	Drawing Reference
1 of 37	Mainline Northbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26201
2 of 37	Mainline Northbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26202
3 of 37	Mainline Northbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26203
4 of 37	Mainline Northbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26204
5 of 37	Mainline Northbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26205
6 of 37	Mainline Southbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26206
7 of 37	Mainline Southbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26207
8 of 37	Mainline Southbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26208
9 of 37	Mainline Southbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26209
10 of 37	Mainline Southbound	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26210
11 of 37	Fardon Roundabout	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26220
12 of 37	Cattle Market Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26230
13 of 37	Cattle Market Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26231
14 of 37	Cattle Market Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26232
15 of 37	Cattle Market Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26233
16 of 37	Browhills Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26240
17 of 37	Browhills Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26241
18 of 37	Browhills Junction	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26242
19 of 37	Esso Service Station Slip Roads	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26250
20 of 37	Winthorpe Roundabout	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26260
21 of 37	Winthorpe Roundabout	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26261
22 of 37	Winthorpe Roundabout	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26262
23 of 37	Winthorpe Roundabout	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26263
24 of 37	Friendly Farmer Link	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26270
25 of 37	Friendly Farmer Link	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26271
26 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26280
27 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26281
28 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26282
29 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26283
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31 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26285
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35 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26289
36 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26290
37 of 37	Access Tracks	HE551478-SKAG-HGN-CONWI_CONW-DR-CH-26291

CO2	11/03/24	Revised for DCO Submission	JK	SC	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

CLIENT

PURPOSE OF ISSUE
 DCO APPLICATION

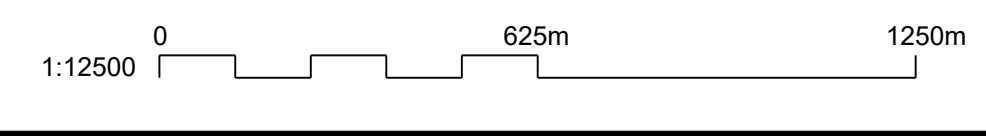
DEVELOPMENT CONSENT ORDER NUMBER
 TR010065

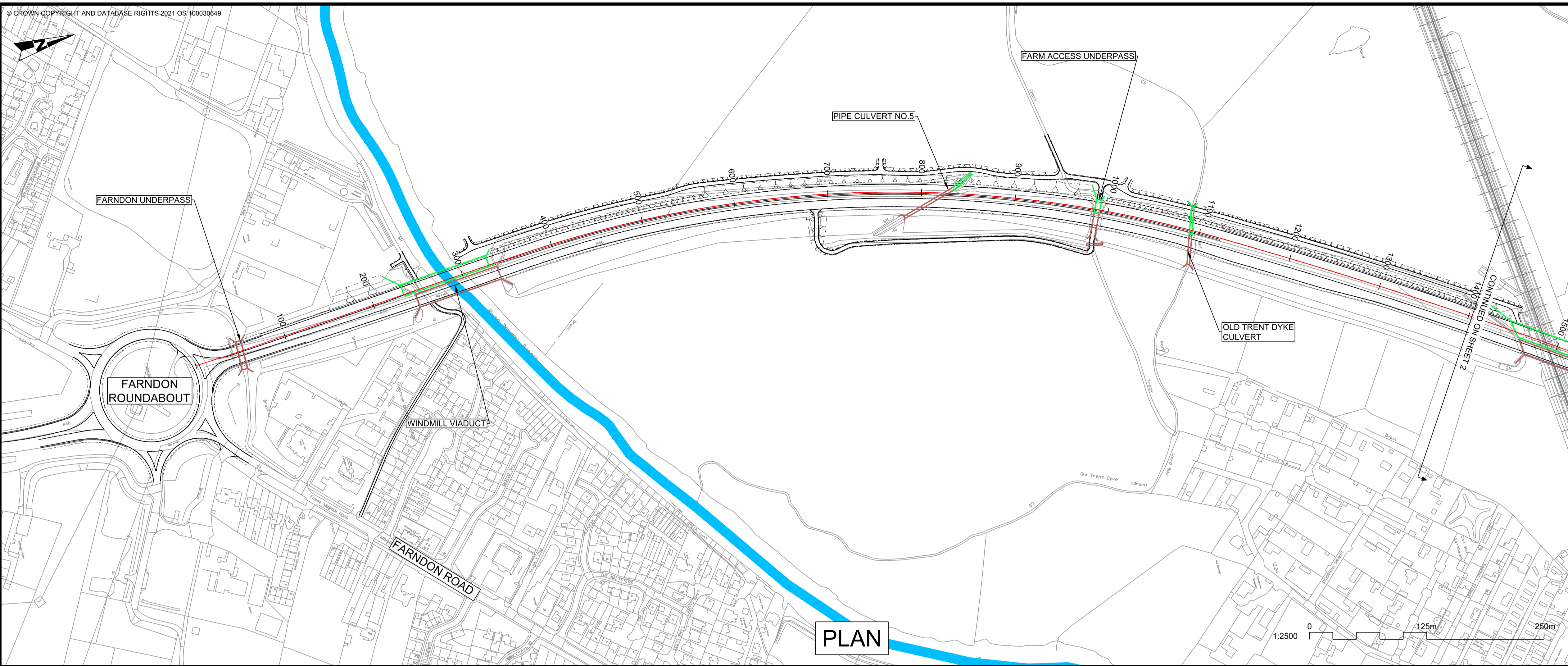
PROJECT TITLE
 A46 NEWARK BYPASS

DRAWING TITLE
 ENGINEERING PLANS AND SECTIONS
 REGULATION 5(2)(o), 5(2)(P) and 6(2)
 PLAN AND PROFILES - KEY PLAN

ORIGINAL SIZE	A1	SCALE	1:12500
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DRAWING NUMBER	ORIGINATOR	VOLUME	PROJECT REF NO.
HE551478	SKAG	HGN	HE551478
CONWI_CONW	DR	CH	26200
LOCATION	TYPE	ROLE	NUMBER
			C02





NOTES

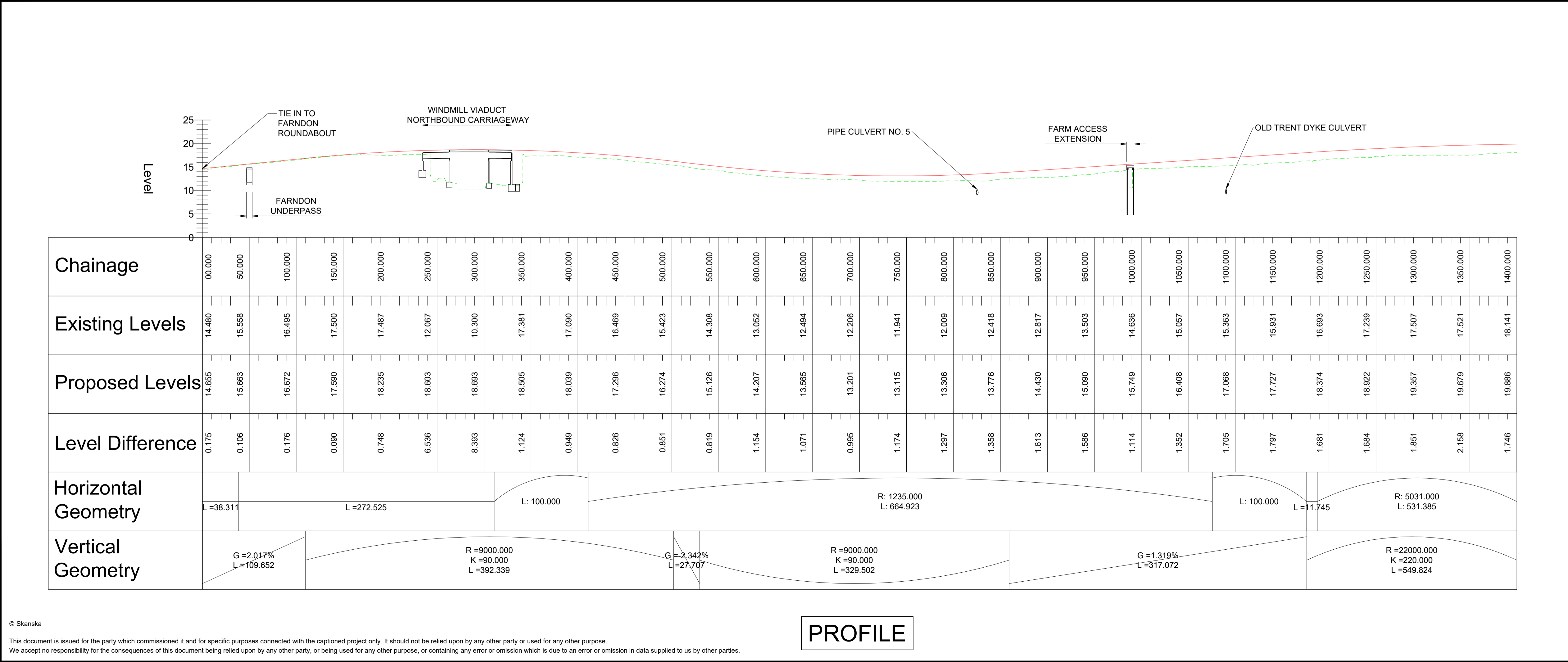
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PLAN VIEW KEY:

- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE



CLIENT
national highways

PURPOSE OF ISSUE
DCO APPLICATION

DEVELOPMENT CONSENT ORDER NUMBER
TR010065

PROJECT TITLE
A46 NEWARK BYPASS

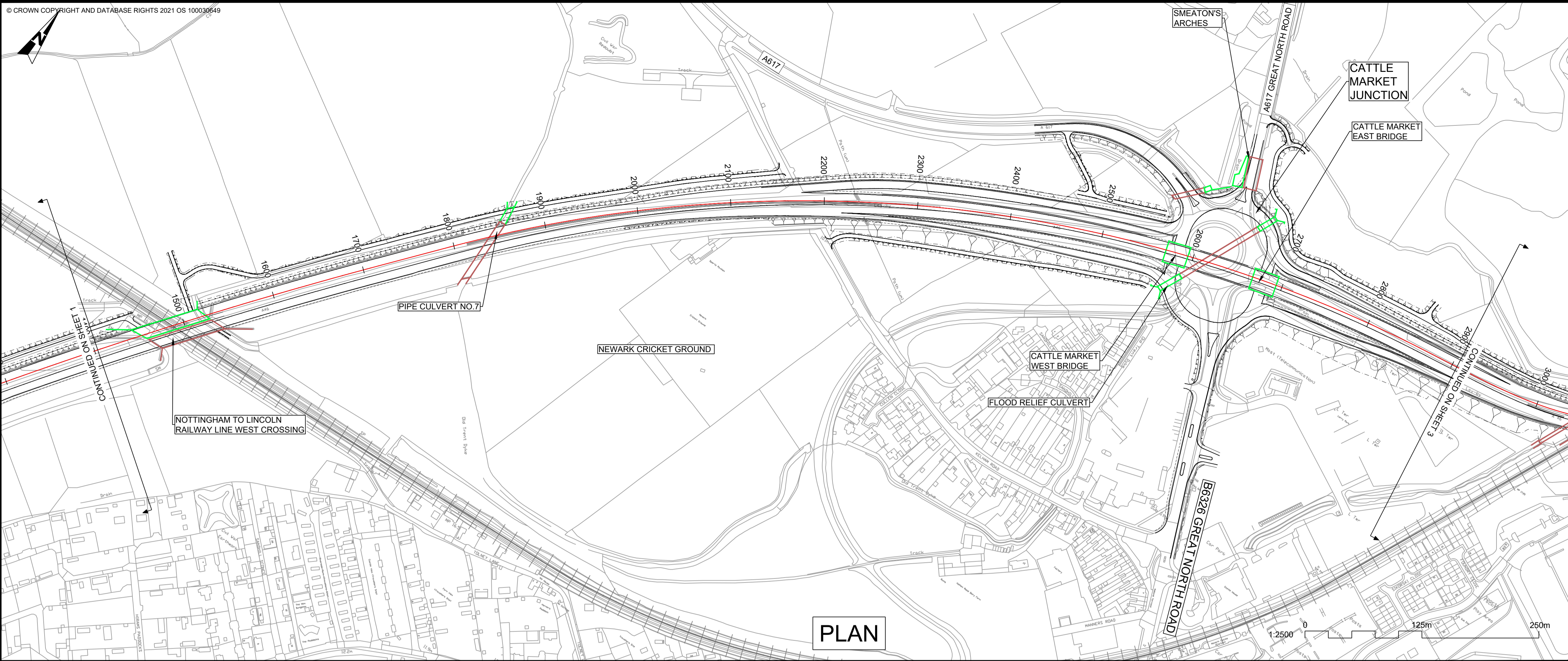
DRAWING TITLE
ENGINEERING PLANS AND SECTIONS
REGULATION 5(2)(o), 5(2)(P) and 6(2)
PLAN AND PROFILES - SHEET 1 OF 37
MAINLINE NORTHBOUND

ORIGINAL SIZE A1 | **SCALE** 1:2500

DRAWING NUMBER HE PIN HE551478	ORIGINATOR SKAG	VOLUME HGN	PROJECT REF NO. HE551478
LOCATION CONWI_CONW	TYPE DR	ROLE CH	REVISION C02

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PROFILE



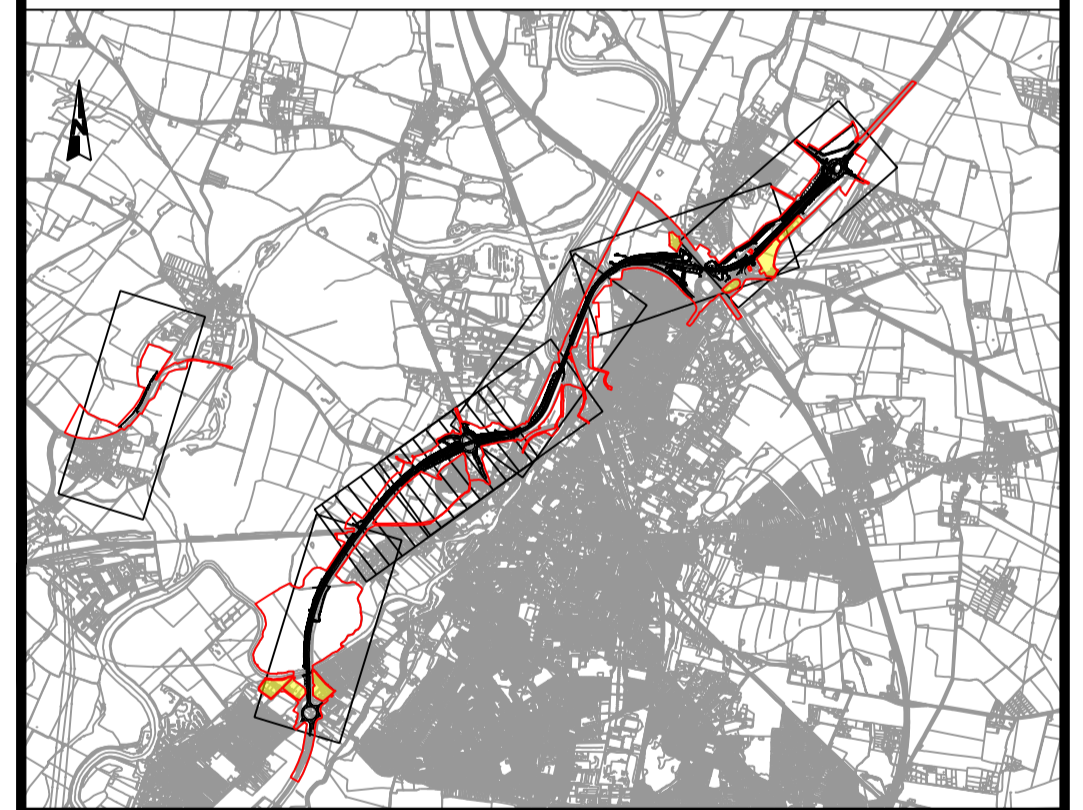
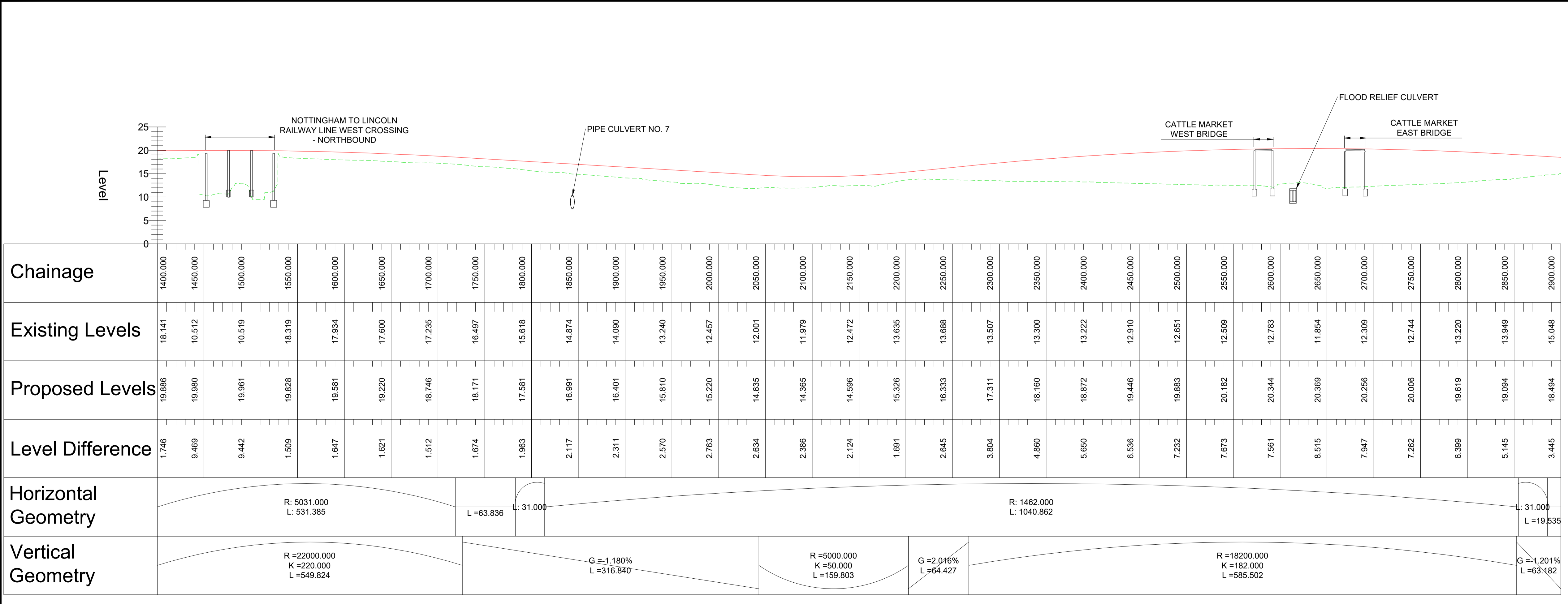
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- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

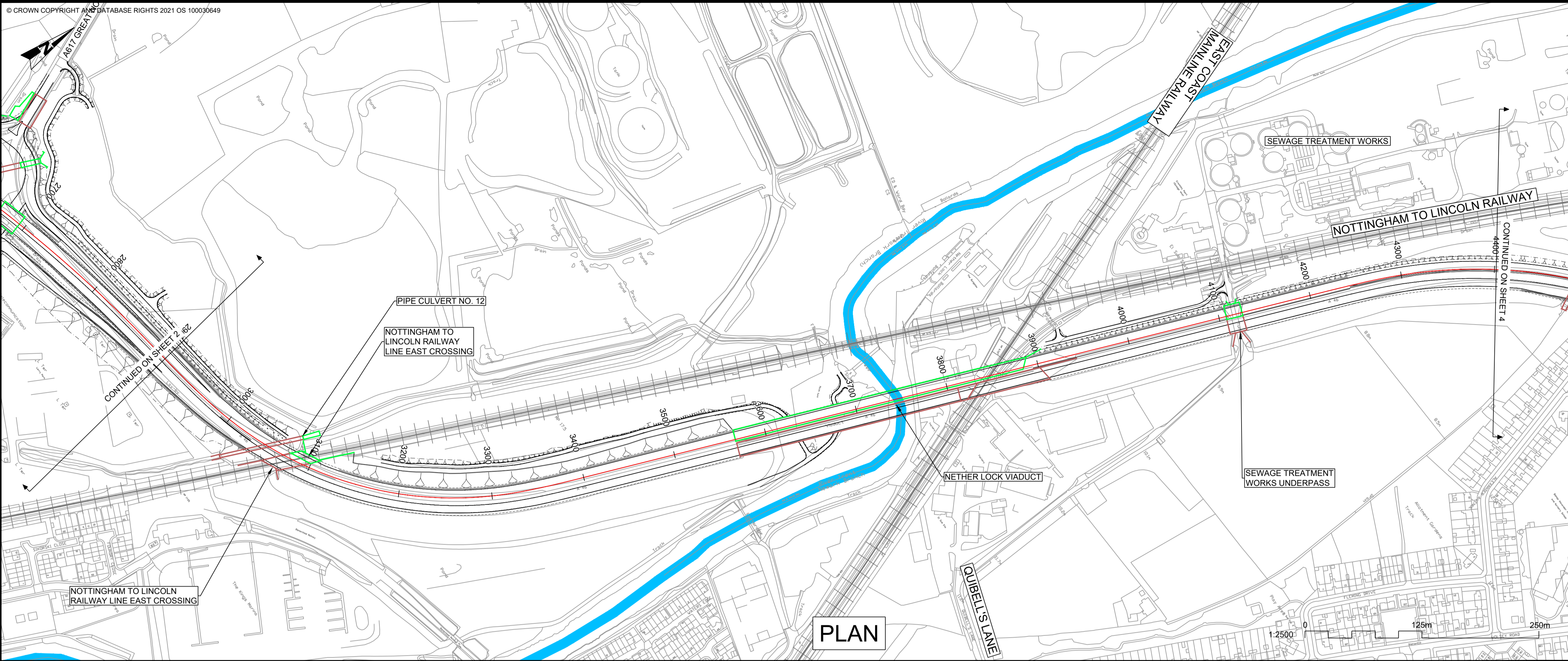
PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE



REV. C02	DATE 11/03/24	AMENDMENT DETAILS Revised for DCO Submission	ORIG JK	CHK'D SC	APP'D HF
CLIENT national highways					
PURPOSE OF ISSUE DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER TR010065					
PROJECT TITLE A46 NEWARK BYPASS					
DRAWING TITLE ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 2 OF 37 MAINLINE NORTHBOUND					
ORIGINAL SIZE A1	SCALE 1:2500				
DRAWING NUMBER HE PIN HE551478	ORIGINATOR SKAG	VOLUME HGN	PROJECT REF NO. HE551478		REVISION
LOCATION CONWI_CONW	DR CH	ROLE DR	NUMBER 26202	REVISION C02	

PROFILE



PLAN

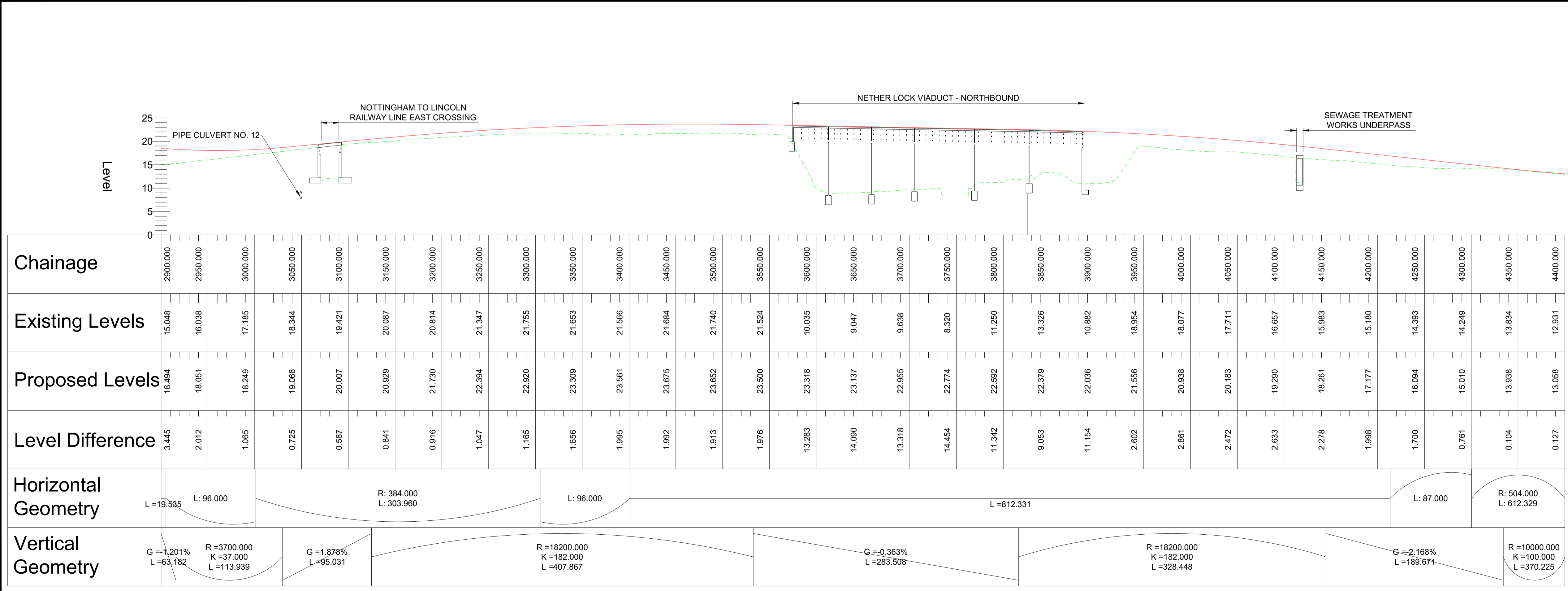
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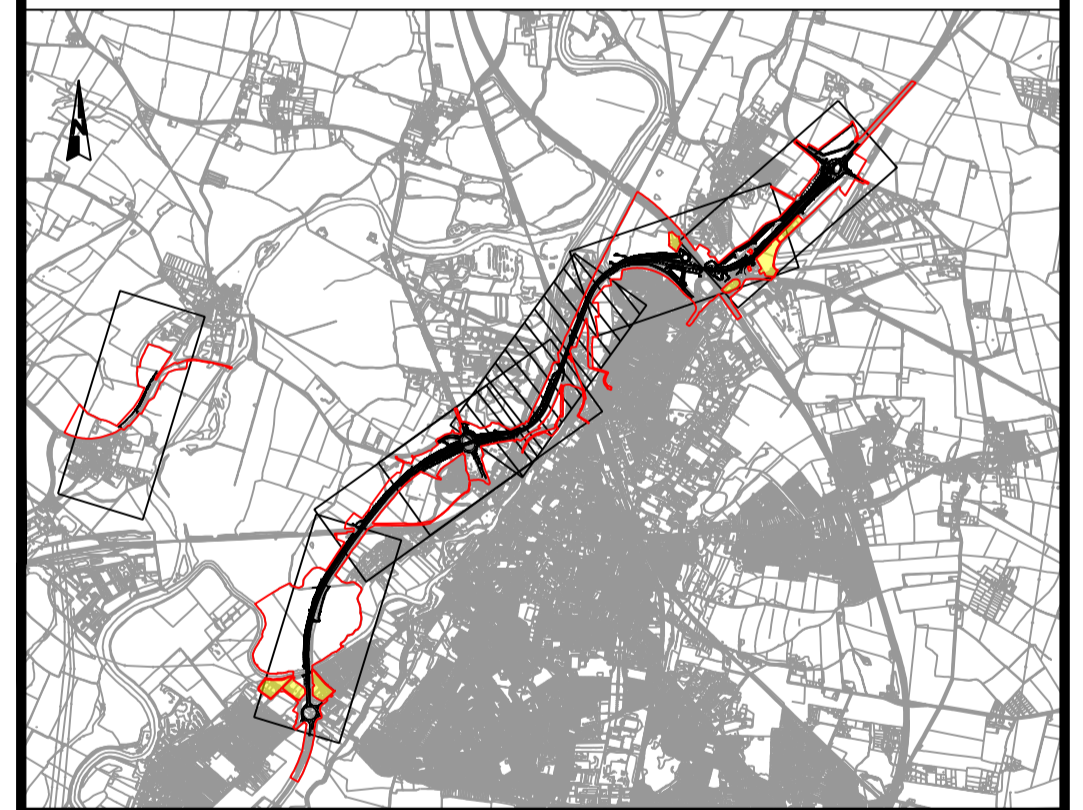
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- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

PROFILE VIEW KEY:

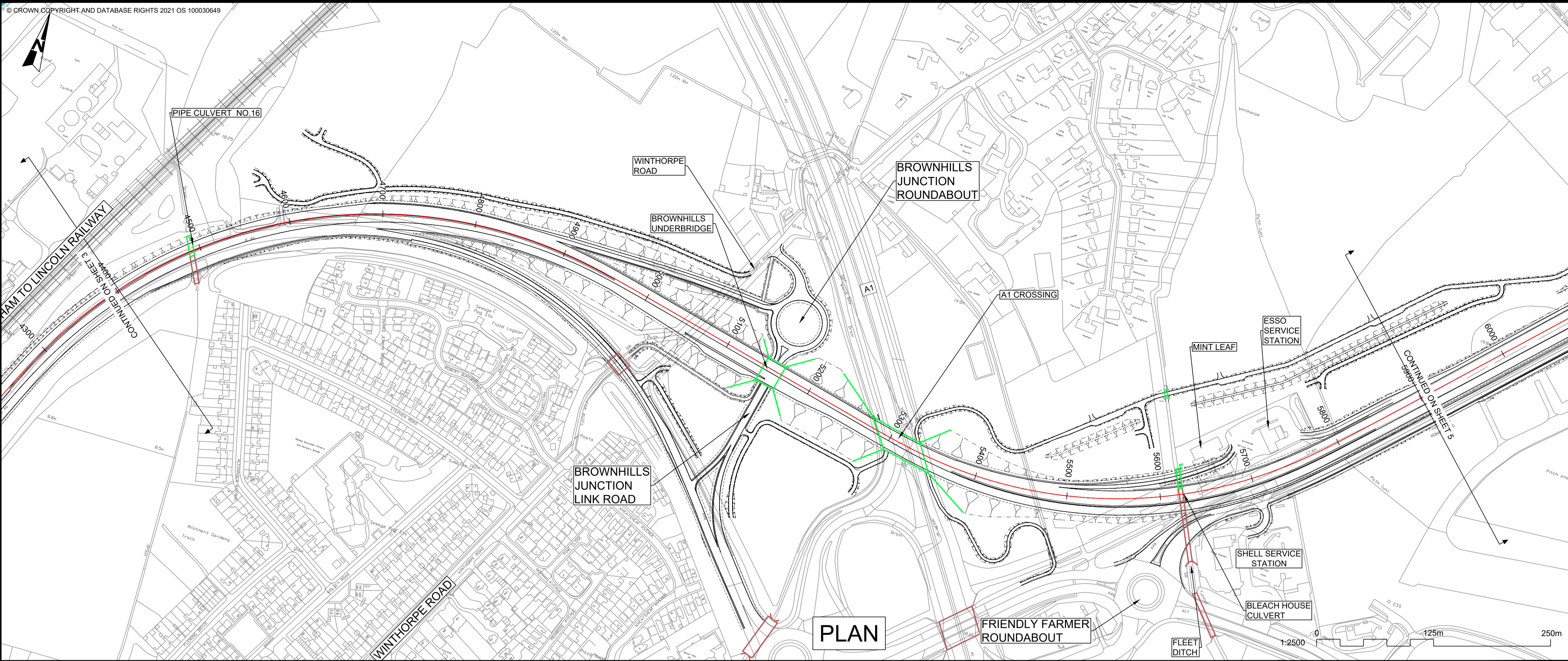
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- NEW STRUCTURE



PROFILE



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
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CLIENT					
national highways					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 3 OF 37 MAINLINE NORTHBOUND					
ORIGINAL SIZE			SCALE		
A1			1:2500		
DRAWING NUMBER		ORIGINATOR	VOLUME	PROJECT REF NO.	
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CONWI_CONW		DR	CH	REVISION	
LOCATION		TYPE	ROLE	NUMBER	
				C02	



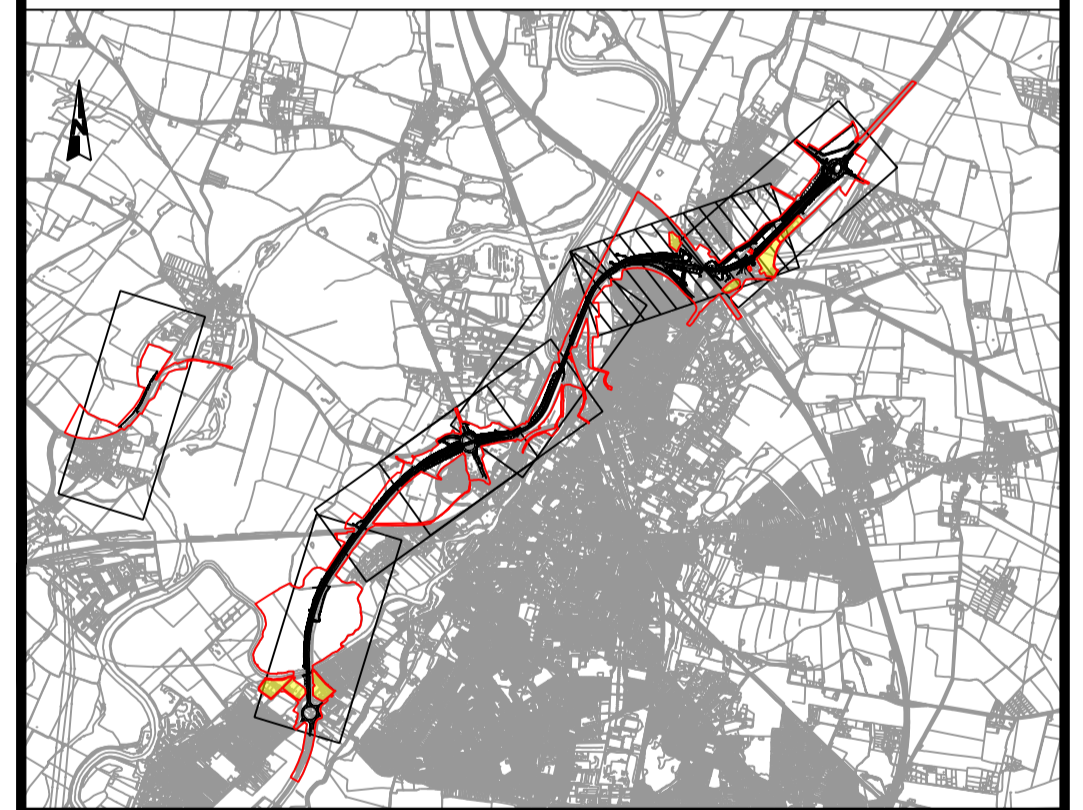
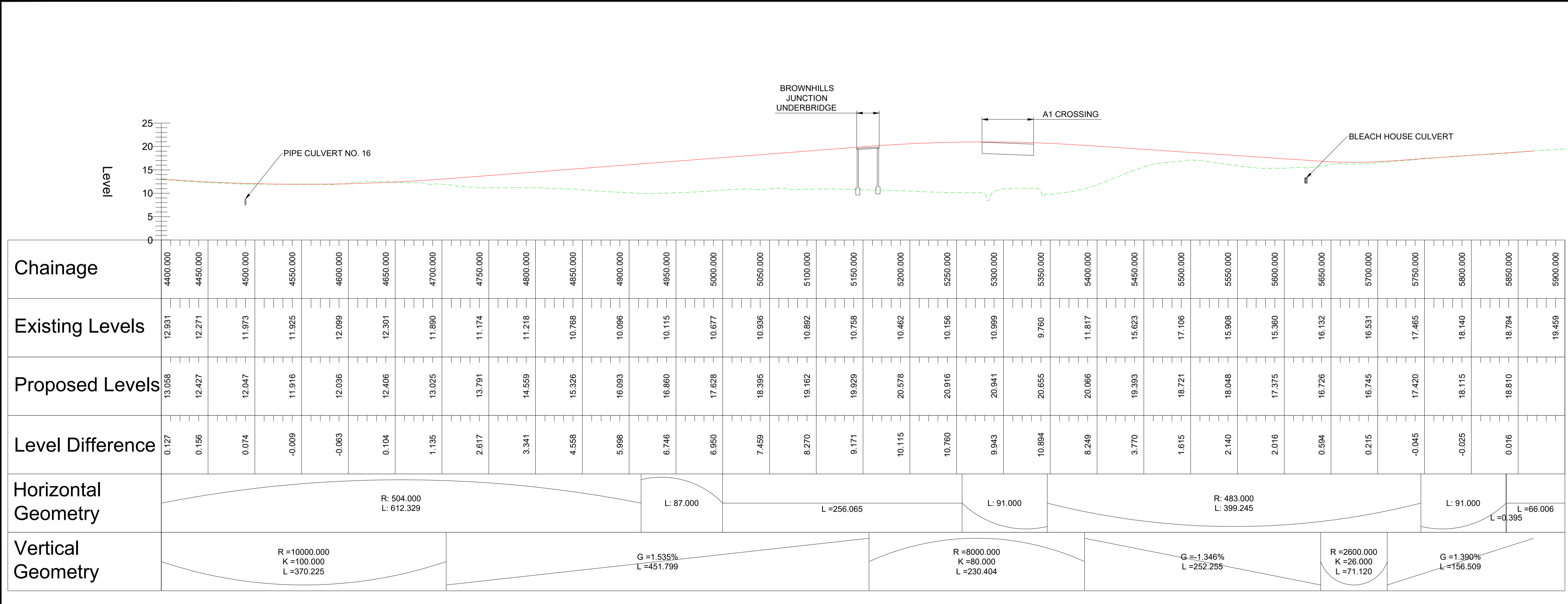
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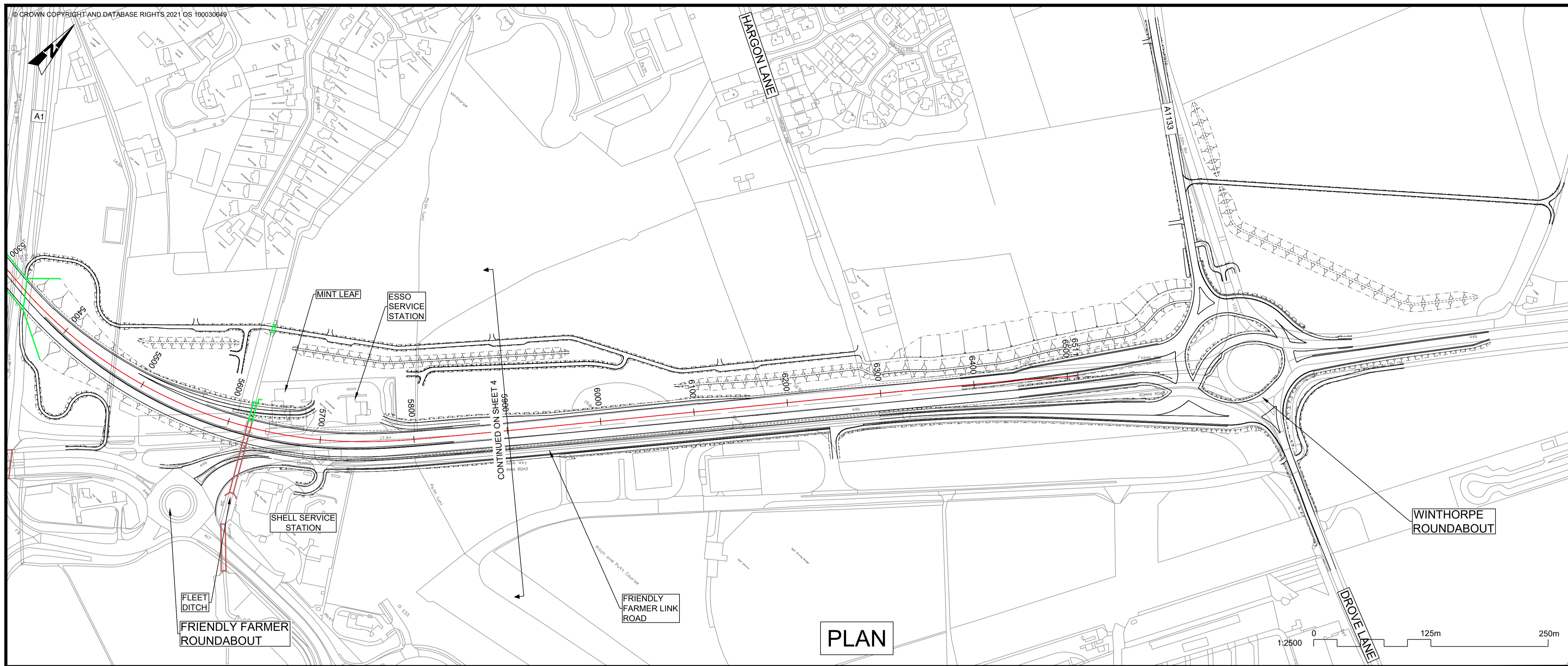
- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
C02	11/03/24	Revised for DCO Submission	JK	SC	HF
CLIENT					
national highways					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 4 OF 37 MAINLINE NORTHBOUND					
ORIGINAL SIZE			SCALE		
A1			1:2500		
DRAWING NUMBER		ORIGINATOR	VOLUME	PROJECT REF NO.	
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CONWI_CONW		DR	CH	26204	REVISION
LOCATION		TYPE	ROLE	NUMBER	C02



PLAN

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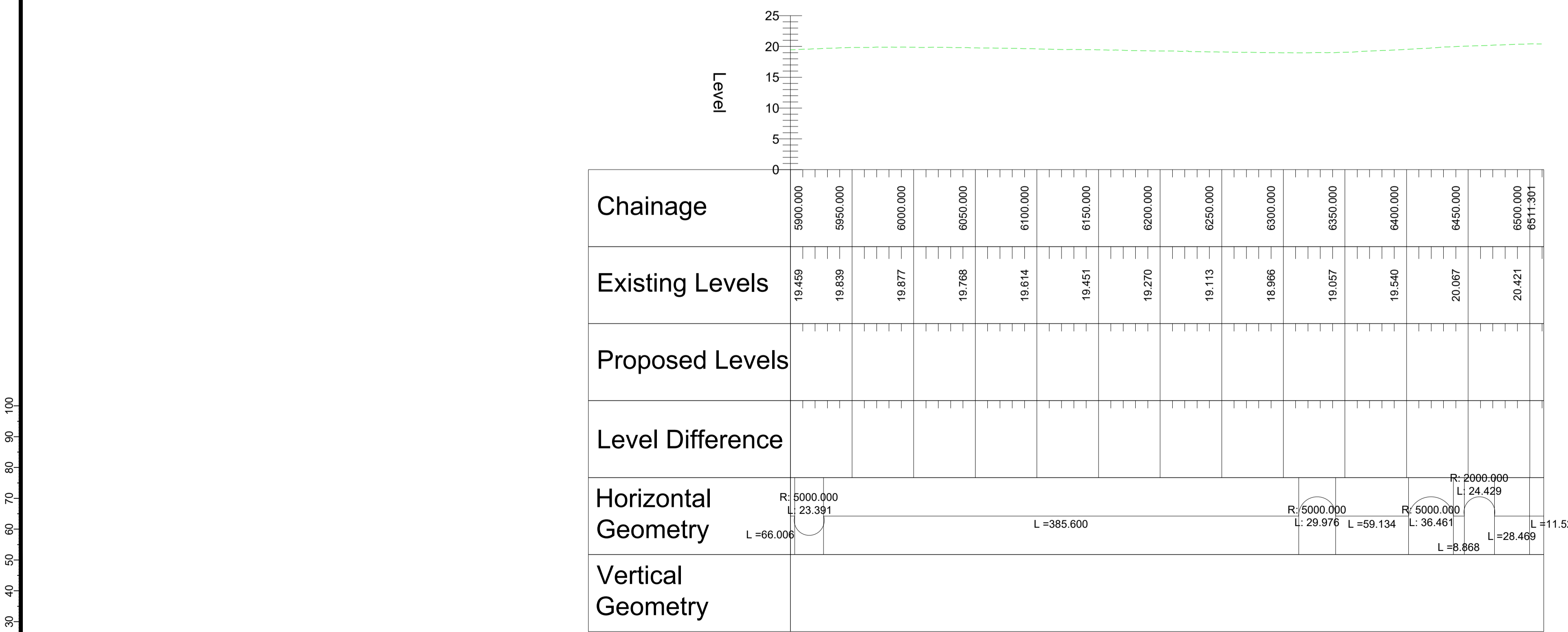
PLAN VIEW KEY:

- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- XXXX NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

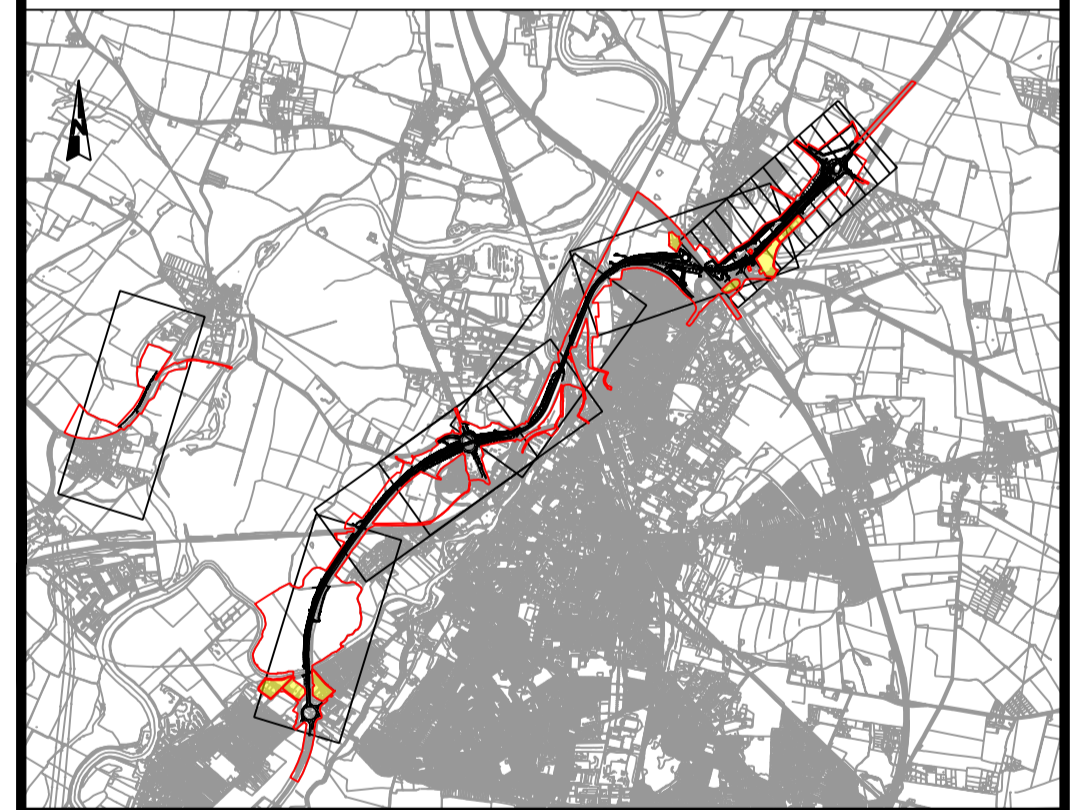
PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE

VERTICAL PROFILE AS PER EXISTING GROUND

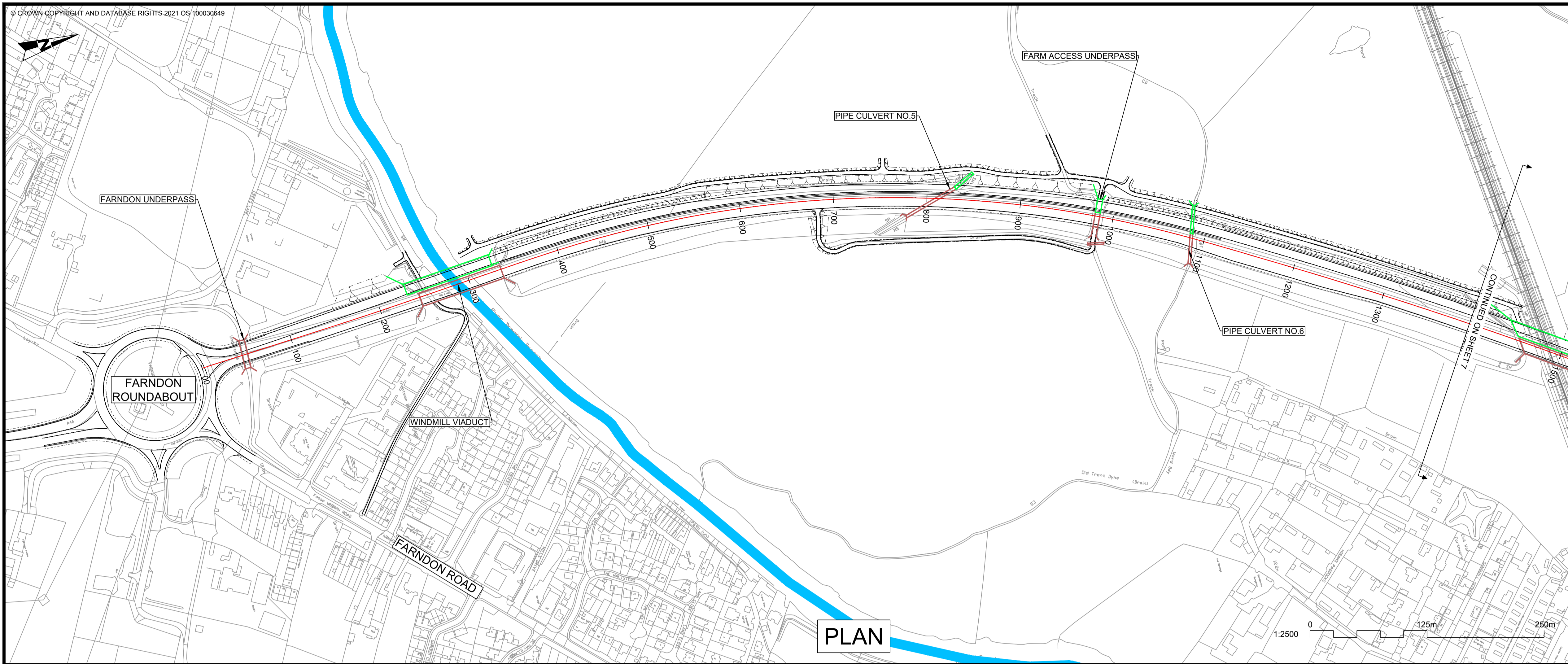


PROFILE



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
C02	11/03/24	Revised for DCO Submission	JK	SC	HF
CLIENT					
national highways					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 5 OF 37 MAINLINE NORTHBOUND					
ORIGINAL SIZE		SCALE			
A1		1:2500			
DRAWING NUMBER	ORIGINATOR	VOLUME	PROJECT REF NO.		
HE551478	SKAG	HGN	HE551478		
LOCATION		DR	CH	26205	REVISION
CONWI_CONW		DR	CH	26205	C02

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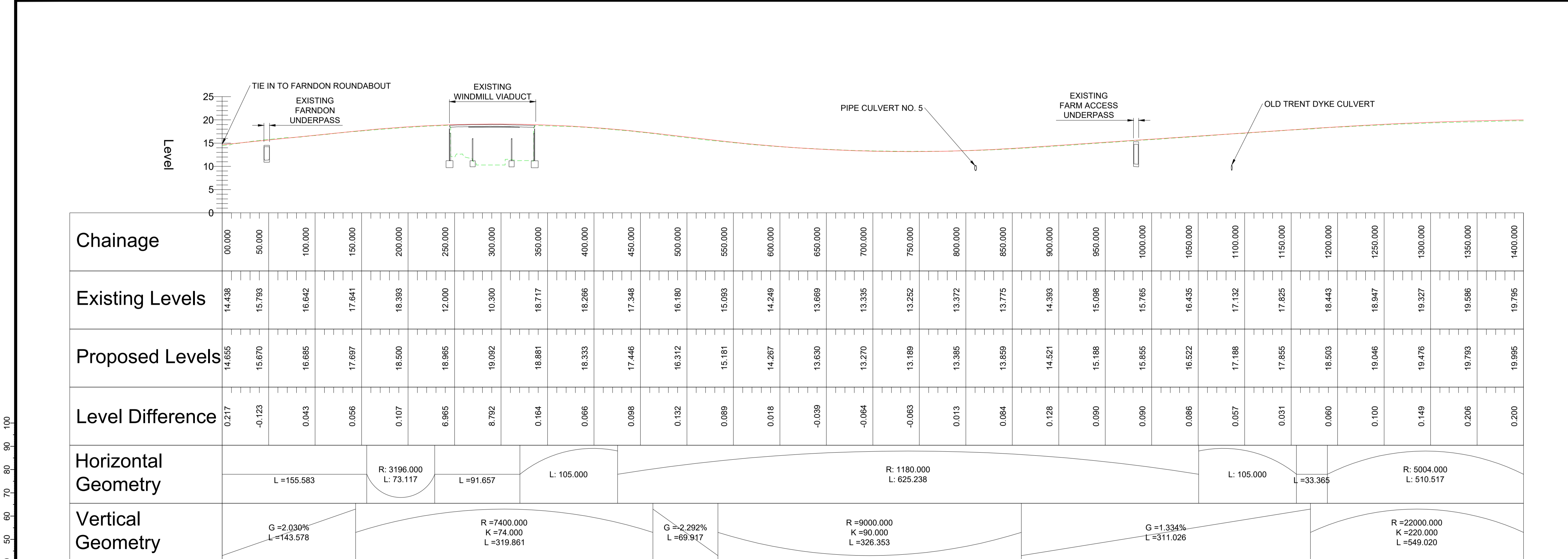
PLAN VIEW KEY:

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- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
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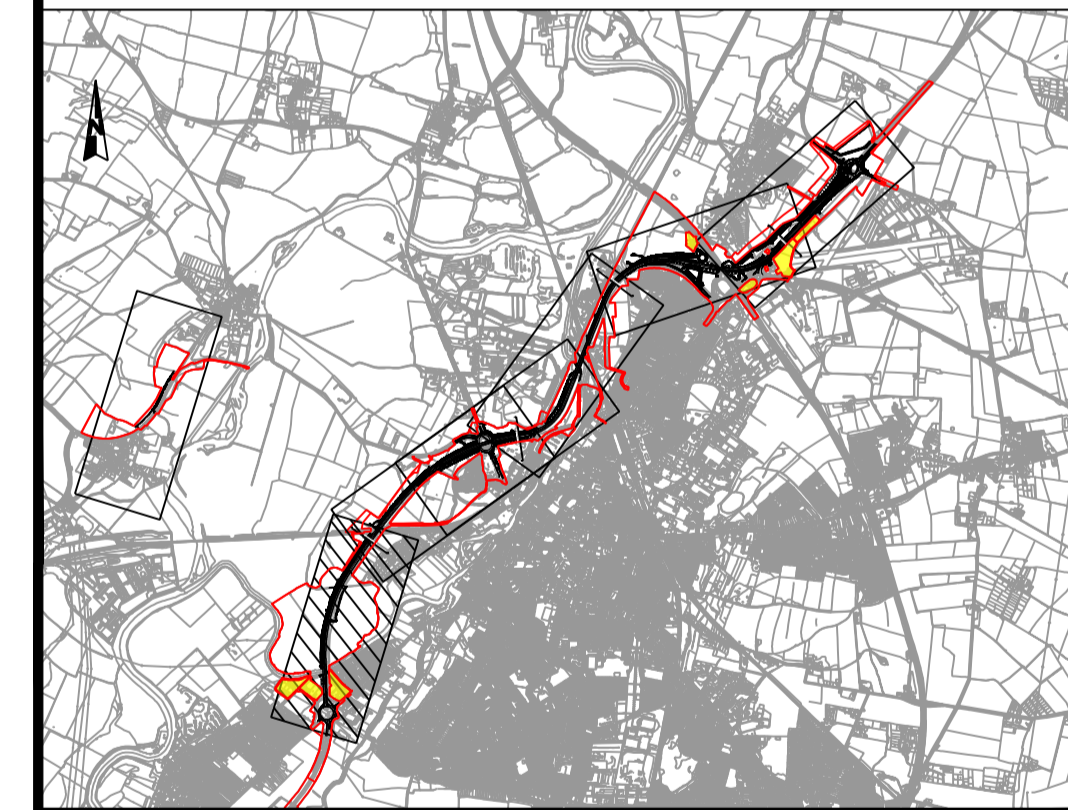
PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE

PLAN

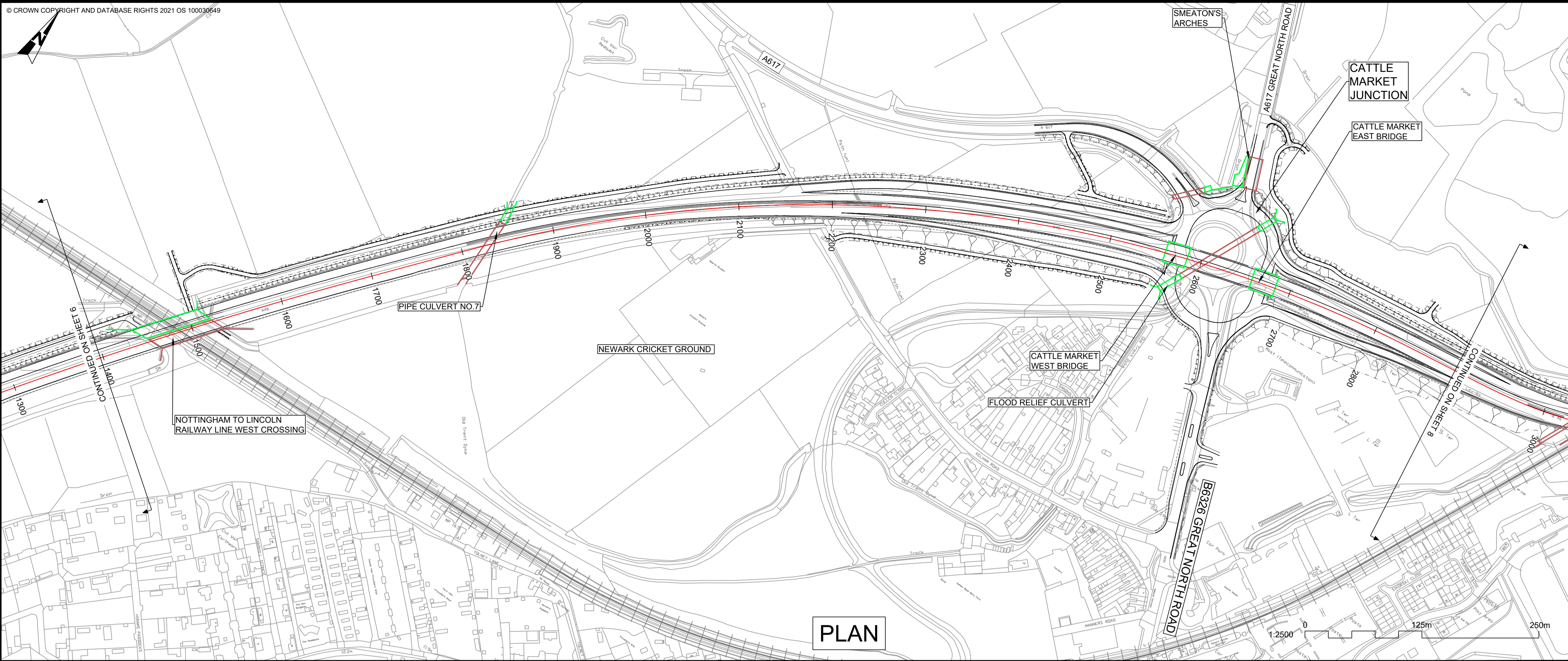


PROFILE



C02	11/03/24	Revised for DCO Submission	JK	SC	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
CLIENT national highways					
PURPOSE OF ISSUE DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER TR010065					
PROJECT TITLE A46 NEWARK BYPASS					
DRAWING TITLE ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 6 OF 37 MAINLINE SOUTHBOUND					
ORIGINAL SIZE	A1	SCALE	1:2500		
DRAWING NUMBER	HE PIN	ORIGINATOR	VOLUME	PROJECT REF NO.	
HE551478	SKAG	HGN		HE551478	
CONWI_CONW	DR	CH	26206	REVISION	C02
LOCATION	TYPE	ROLE	NUMBER		

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PLAN

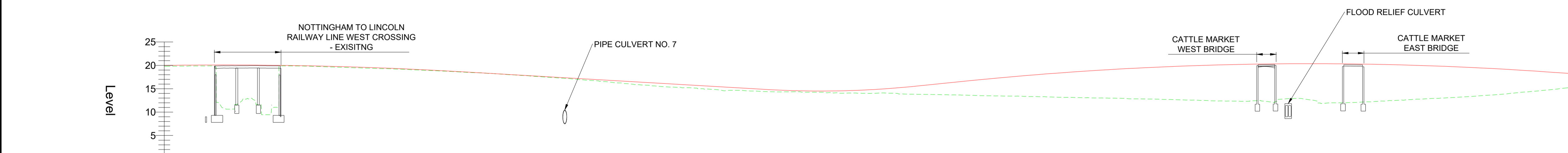
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PLAN VIEW KEY:

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- NEW DESIGN
- NEW ALIGNMENT
- XXXX NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

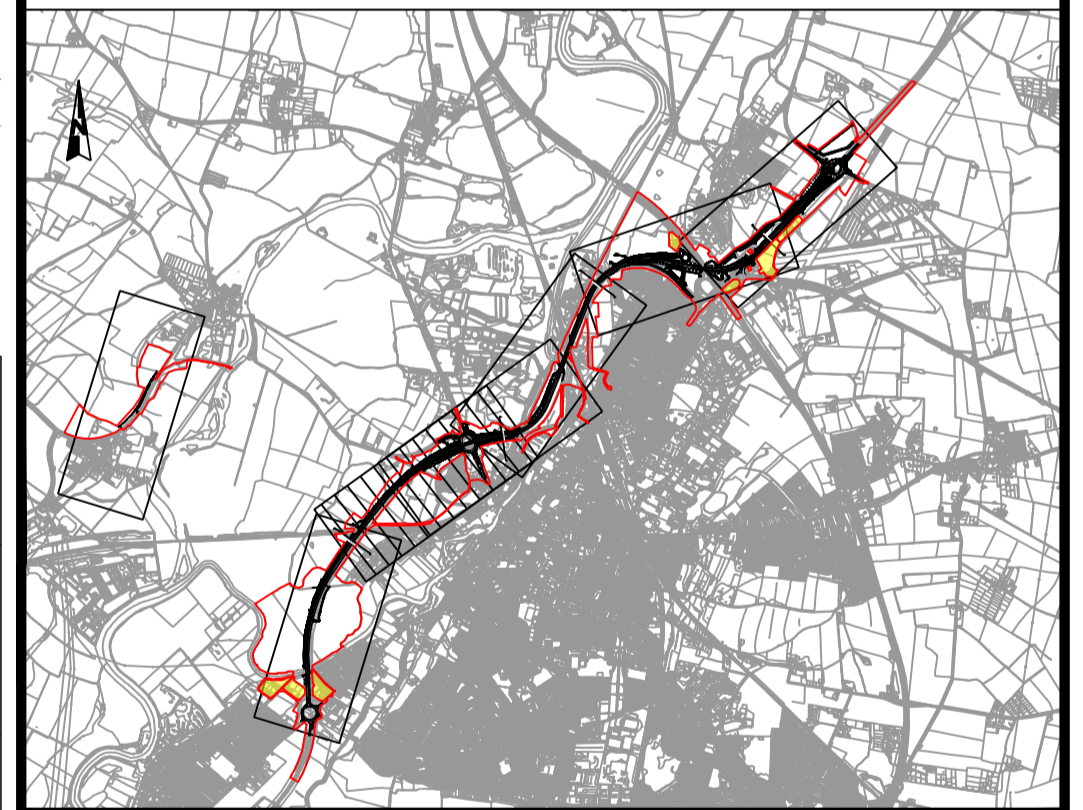
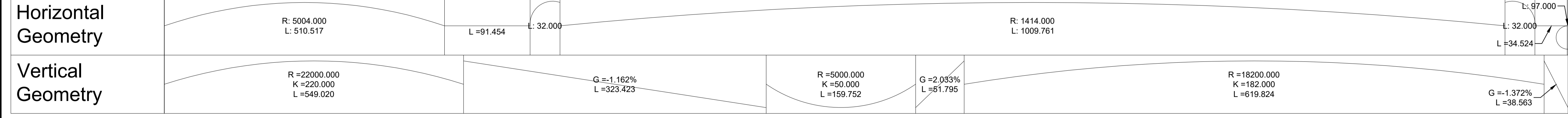
PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE

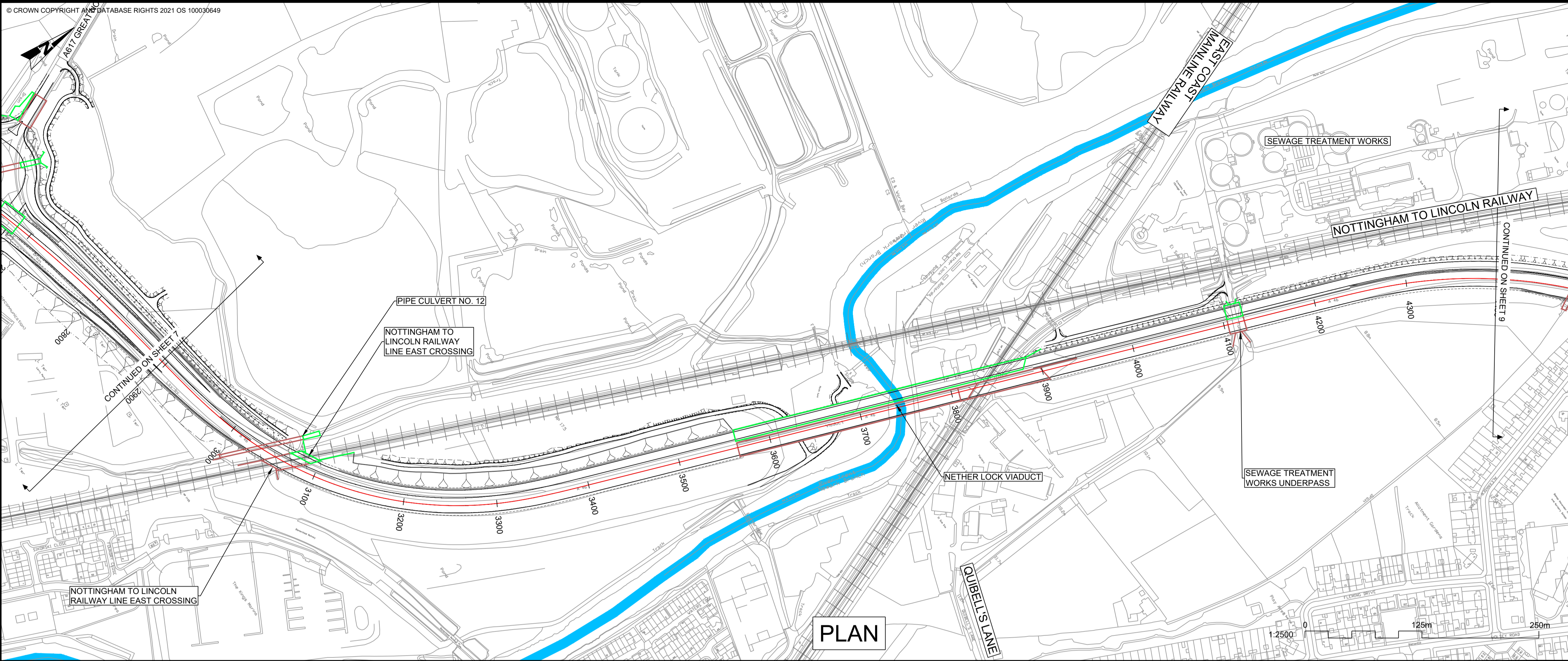


PROFILE

Chainage	Existing Levels	Proposed Levels	Level Difference
1400.000	19.795	19.995	0.200
1450.000	19.877	20.084	0.207
1500.000	11.583	20.060	8.476
1550.000	19.843	19.921	0.079
1600.000	19.508	19.669	0.161
1650.000	19.189	19.304	0.115
1700.000	18.758	18.825	0.067
1750.000	18.257	18.253	-0.004
1800.000	17.598	17.672	0.074
1850.000	16.855	17.091	0.236
1900.000	15.980	16.510	0.530
1950.000	15.250	15.929	0.679
2000.000	14.631	15.348	0.718
2050.000	14.355	14.772	0.417
2100.000	14.265	14.510	0.244
2150.000	14.014	14.747	0.733
2200.000	13.832	15.484	1.652
2250.000	13.663	16.500	2.837
2300.000	13.437	17.460	4.023
2350.000	13.217	18.284	5.067
2400.000	13.025	18.970	5.945
2450.000	12.808	19.519	6.711
2500.000	12.580	19.931	7.350
2550.000	12.320	20.205	7.885
2600.000	12.872	20.341	7.469
2650.000	11.987	20.341	8.354
2700.000	12.363	20.203	7.840
2750.000	12.865	19.928	7.062
2800.000	13.389	19.515	6.126
2850.000	14.247	18.965	4.717
2900.000	15.211	18.295	3.084



REV. C02	DATE 11/03/24	Revised for DCO Submission	JK	SC	HF
AMENDMENT DETAILS			ORIG	CHK'D	APP'D
CLIENT national highways					
PURPOSE OF ISSUE DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER TR010065					
PROJECT TITLE A46 NEWARK BYPASS					
DRAWING TITLE ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(c), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 7 OF 37 MAINLINE SOUTHBOUND					
ORIGINAL SIZE	A1	SCALE	1:2500		
DRAWING NUMBER	HE PIN	ORIGINATOR	VOLUME	PROJECT REF NO.	
HE551478	SKAG	HGN		HE551478	
CONWI_CONW	DR	CH	26207	REVISION	
LOCATION	TYPE	ROLE	NUMBER	C02	



PLAN

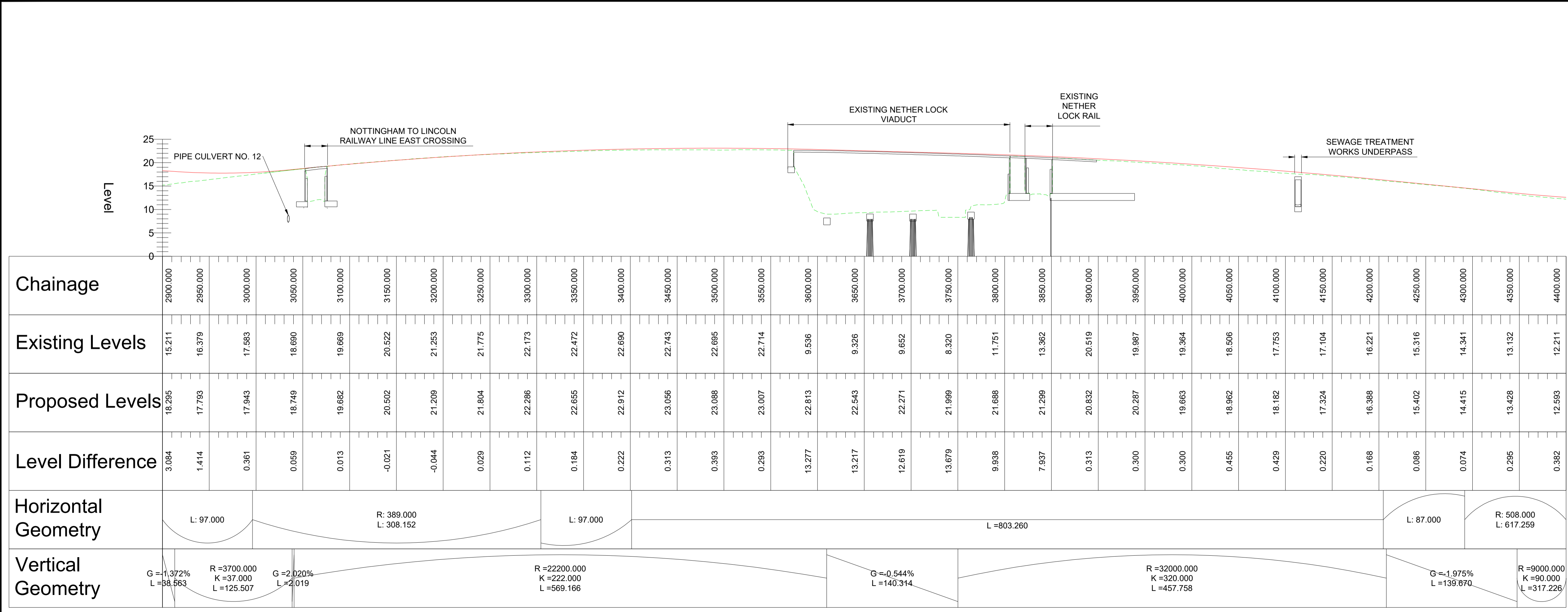
- NOTES**
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 2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE WORK PLANS (TR010065/APP/2.3) AND SCHEDULE 1 (AUTHORISED DEVELOPMENT) OF THE DEVELOPMENT CONSENT ORDER (TR010065/APP/3.1).
 3. DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
 4. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.

PLAN VIEW KEY:

- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

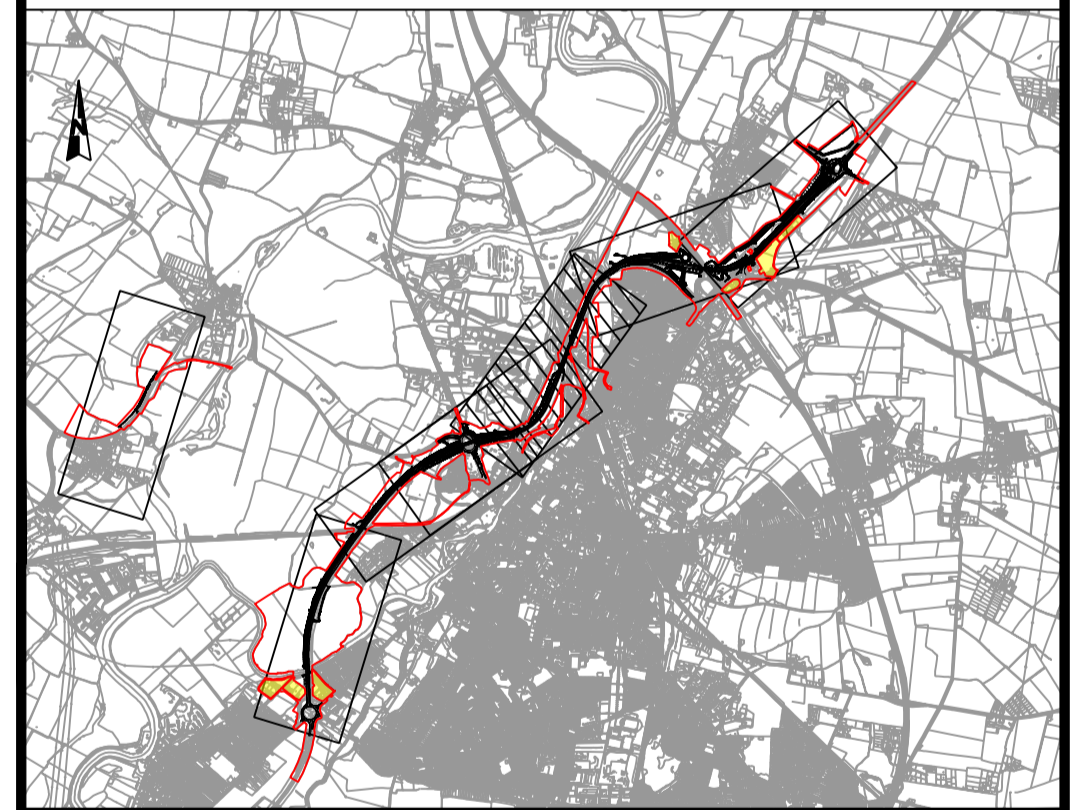
PROFILE VIEW KEY:

- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE

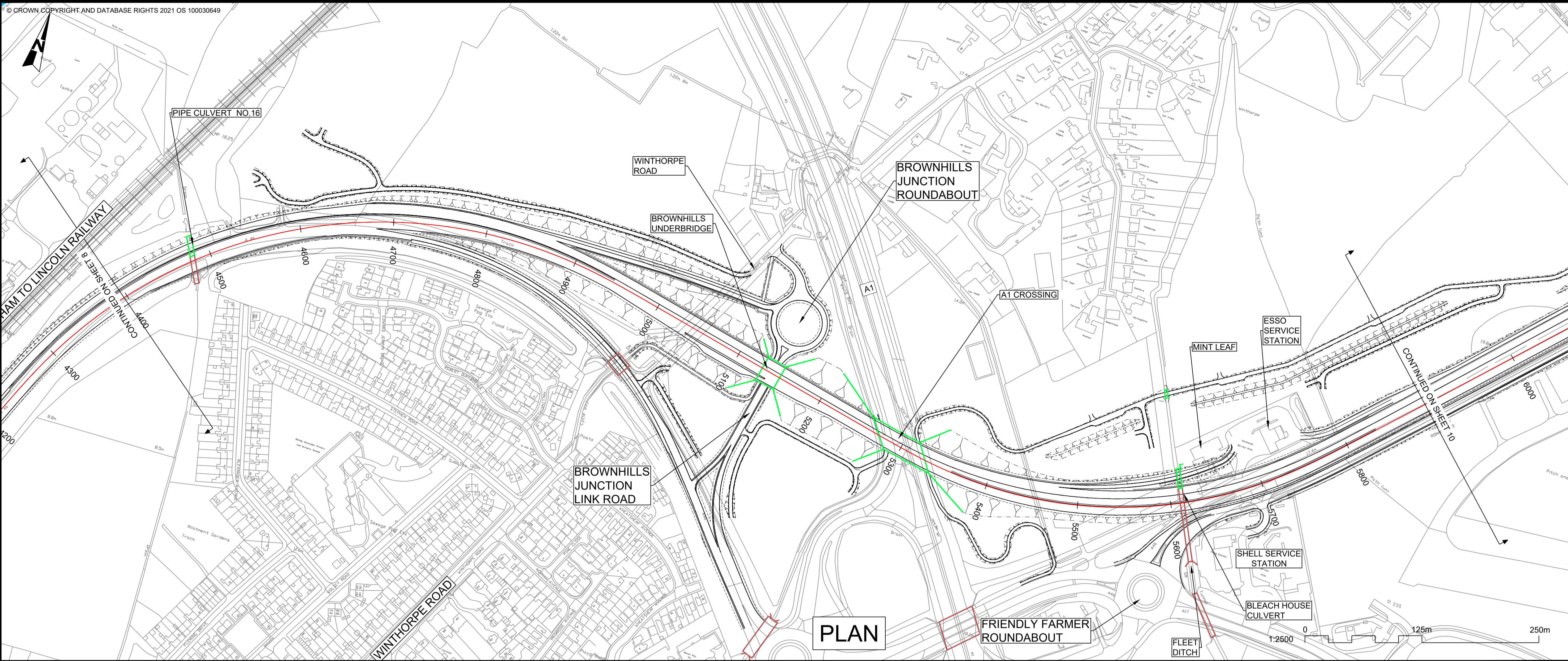


PROFILE

Chainage	Existing Levels	Proposed Levels	Level Difference	Horizontal Geometry	Vertical Geometry
2900.000	15.211	18.295	3.084	L: 97.000	G = -1.372% L = 38.563
2950.000	16.379	17.793	1.414		
3000.000	17.583	17.943	0.361	R: 389.000 L: 308.152	G = 2.020% L = 125.507
3050.000	18.690	18.749	0.059		
3100.000	19.669	19.682	0.013	L: 97.000	R = 22200.000 K = 222.000 L = 569.166
3150.000	20.522	20.502	-0.021		
3200.000	21.253	21.209	-0.044	L: 803.260	G = -0.544% L = 140.314
3250.000	21.775	21.804	0.029		
3300.000	22.173	22.286	0.112	R = 32000.000 K = 320.000 L = 457.758	G = -1.975% L = 139.870
3350.000	22.472	22.655	0.184		
3400.000	22.690	22.912	0.222	R: 9000.000 K = 90.000 L = 317.226	R = 9000.000 K = 90.000 L = 317.226
3450.000	22.743	23.056	0.313		
3500.000	22.695	23.088	0.393		
3550.000	22.714	23.007	0.293		
3600.000	9.536	22.813	13.277		
3650.000	9.326	22.543	13.217		
3700.000	9.652	22.271	12.619		
3750.000	8.320	21.999	13.679		
3800.000	11.751	21.688	9.938		
3850.000	13.362	21.299	7.937		
3900.000	20.519	20.532	0.313		
3950.000	19.987	20.287	0.300		
4000.000	19.364	19.663	0.300		
4050.000	18.506	18.962	0.455		
4100.000	17.753	18.182	0.429		
4150.000	17.104	17.324	0.220		
4200.000	16.221	16.388	0.168		
4250.000	15.316	15.402	0.086		
4300.000	14.341	14.415	0.074		
4350.000	13.132	13.428	0.295		
4400.000	12.211	12.593	0.382		



CO2	11/03/24	Revised for DCO Submission	JK	SC	HF
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
CLIENT national highways					
PURPOSE OF ISSUE DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER TR010065					
PROJECT TITLE A46 NEWARK BYPASS					
DRAWING TITLE ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 8 OF 37 MAINLINE SOUTHBOUND					
ORIGINAL SIZE A1			SCALE 1:2500		
DRAWING NUMBER HE PIN HE551478		ORIGINATOR SKAG		VOLUME HGN	
CONWI_CONW		DR CH		26208	
LOCATION		I TYPE		I ROLE	
PROJECT REF NO. HE551478					REVISION C02



PLAN

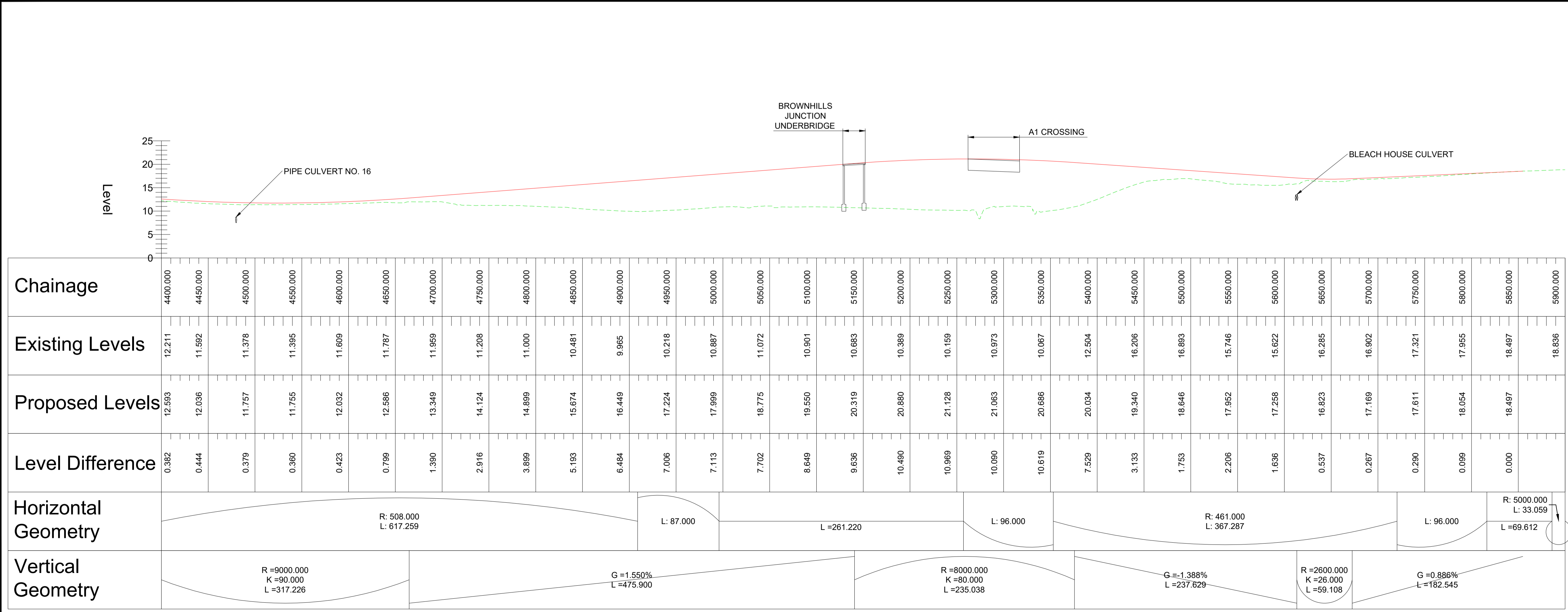
- NOTES**
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PLAN VIEW KEY:

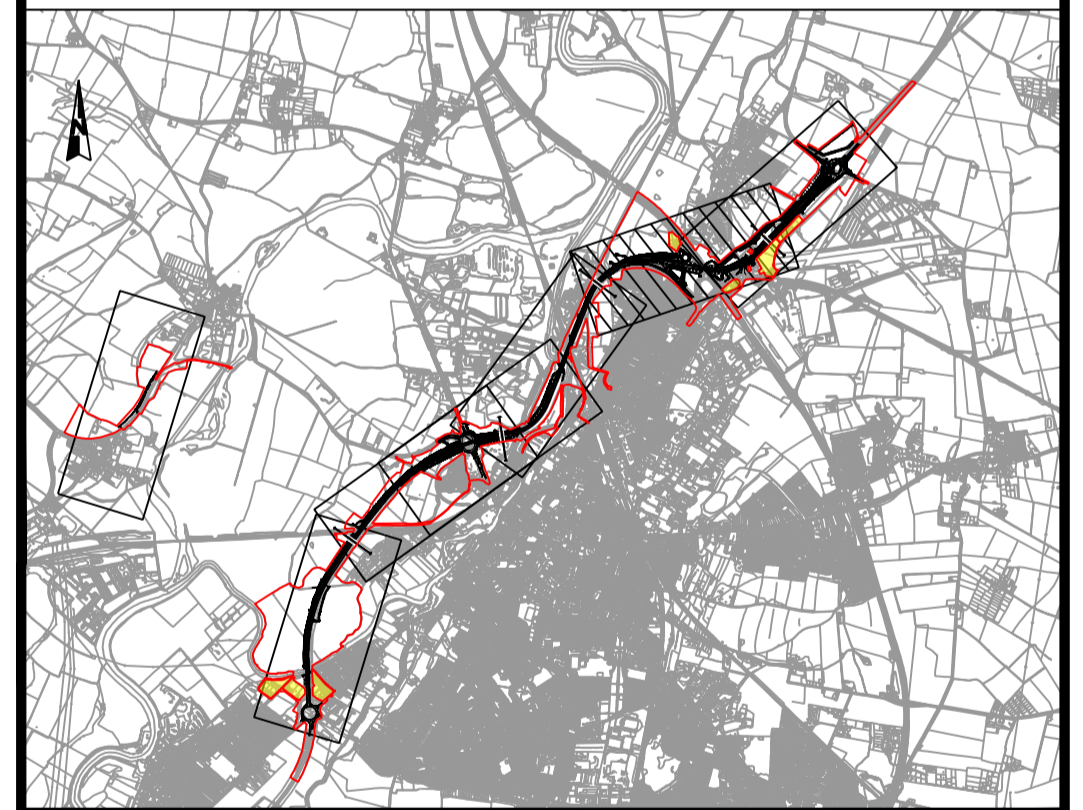
- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

PROFILE VIEW KEY:

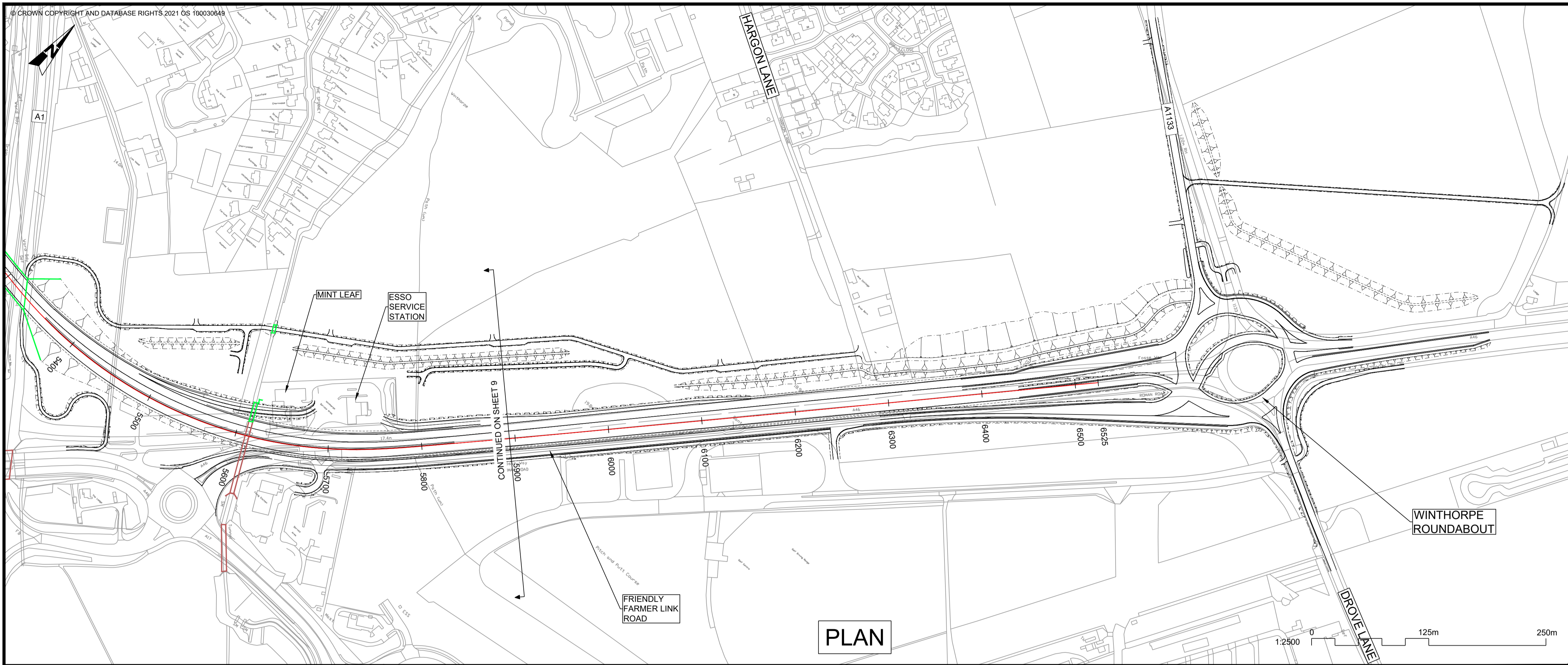
- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE



PROFILE



REV. DATE	11/03/24	Revised for DCO Submission	JK	SC	HF
REV. DATE	AMENDMENT DETAILS		ORIG	CHK'D	APP'D
CLIENT national highways					
PURPOSE OF ISSUE DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER TR010065					
PROJECT TITLE A46 NEWARK BYPASS					
DRAWING TITLE ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(c), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 9 OF 37 MAINLINE SOUTHBOUND					
ORIGINAL SIZE	A1	SCALE	1:2500		
DRAWING NUMBER	HE PIN	ORIGINATOR	VOLUME	PROJECT REF NO.	
HE551478	SKAG	HGN		HE551478	
LOCATION	DR	CH	26209	REVISION	C02
	TYPE	ROLE	NUMBER		



PLAN

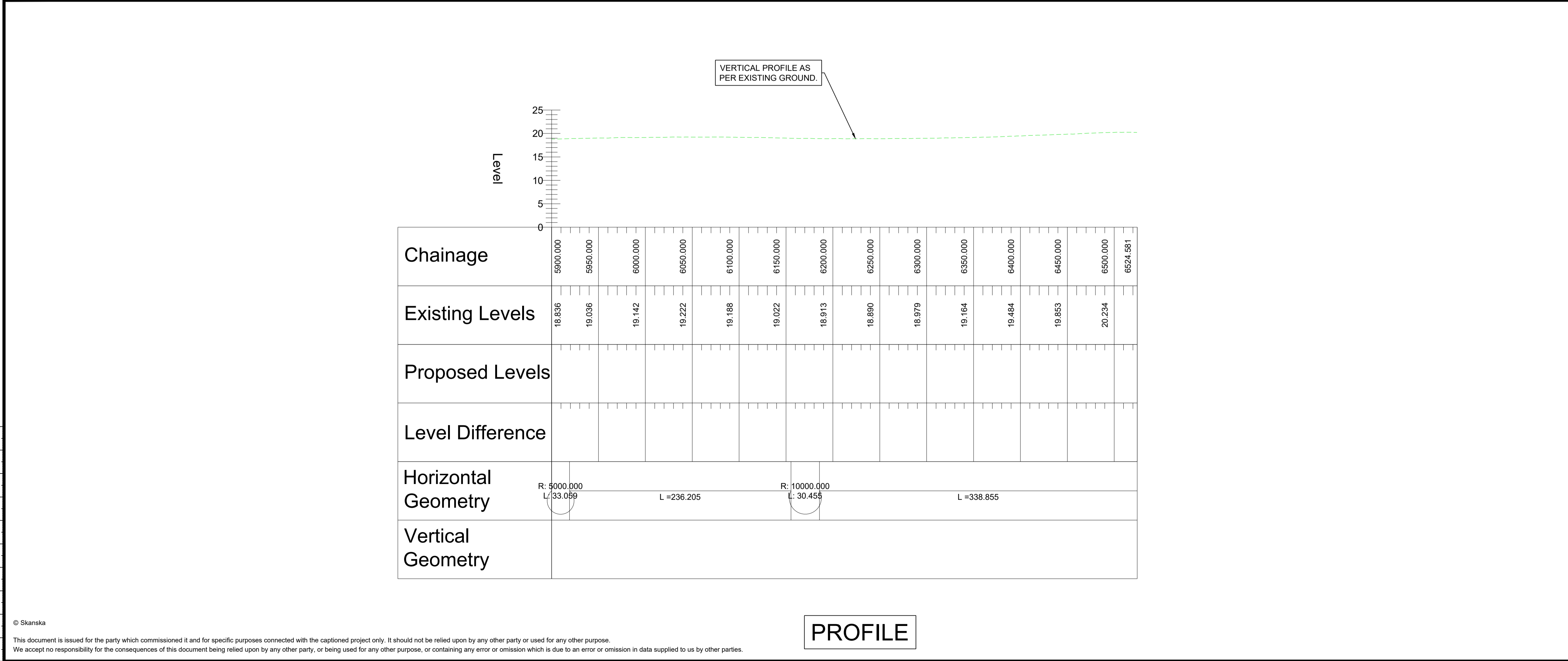
- NOTES**
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PLAN VIEW KEY:

- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW DESIGN
- NEW ALIGNMENT
- XXXX NEW DESIGN CHAINAGE
- NEW EMBANKMENT
- NEW CUTTING
- RIVER
- RAILWAY LINE

PROFILE VIEW KEY:

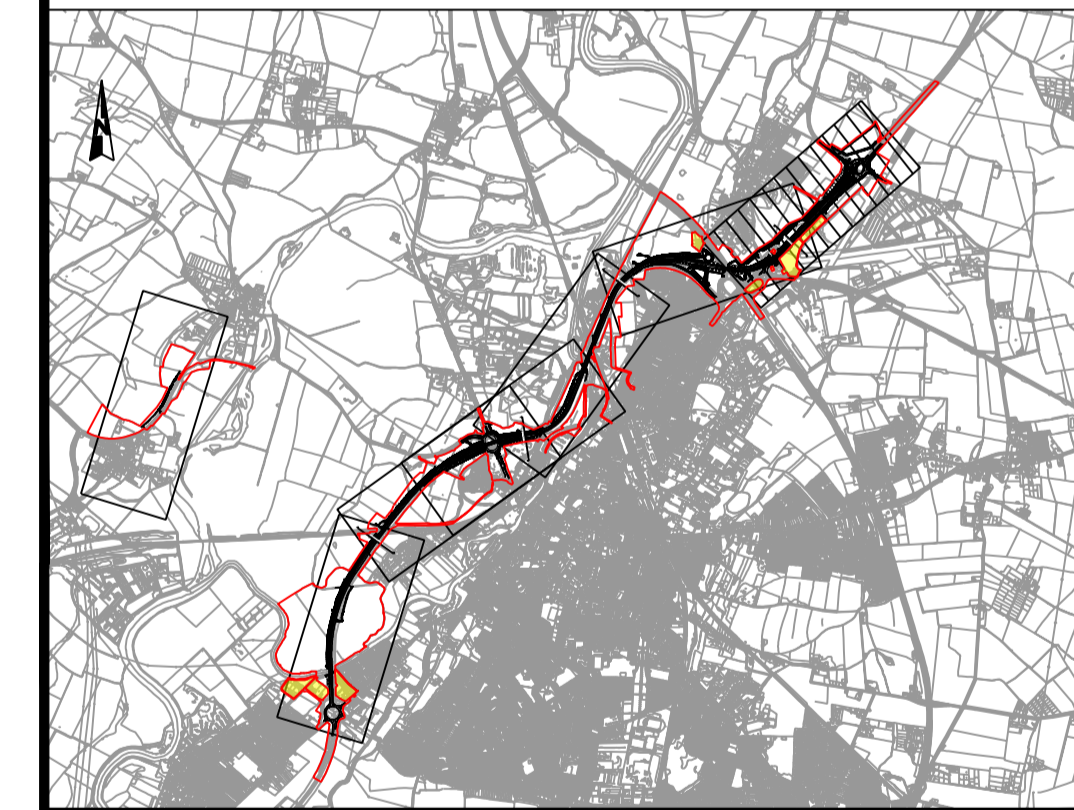
- EXISTING GROUND
- NEW ROAD LEVEL
- NEW STRUCTURE



VERTICAL PROFILE AS PER EXISTING GROUND.

Chainage	5900.000	5950.000	6000.000	6050.000	6100.000	6150.000	6200.000	6250.000	6300.000	6350.000	6400.000	6450.000	6500.000	6524.581
Existing Levels	18.836	19.036	19.142	19.222	19.188	19.022	18.913	18.890	18.979	19.164	19.484	19.853	20.234	
Proposed Levels														
Level Difference														
Horizontal Geometry	R: 5000.000 L: 33.059		L = 236.205			R: 10000.000 L: 30.455		L = 338.855						
Vertical Geometry														

PROFILE



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
C02	11/03/24	Revised for DCO Submission	JK	SC	HF
CLIENT					
PURPOSE OF ISSUE					
DCO APPLICATION					
DEVELOPMENT CONSENT ORDER NUMBER					
TR010065					
PROJECT TITLE					
A46 NEWARK BYPASS					
DRAWING TITLE					
ENGINEERING PLANS AND SECTIONS REGULATION 5(2)(o), 5(2)(P) and 6(2) PLAN AND PROFILES - SHEET 10 OF 37 MAINLINE SOUTHBOUND					
ORIGINAL SIZE		SCALE			
A1		1:2500			
DRAWING NUMBER	ORIGINATOR	VOLUME	PROJECT REF NO.		
HE551478	SKAG	HGN	HE551478		
LOCATION		TYPE	ROLE	NUMBER	REVISION
CONWI_CONW		DR	CH	26210	C02

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