

AENC-MMAC-ENG-REP-0009

Norwich to Tilbury

Volume 7: Other Documents

Document: 7.3 Outline Construction Traffic Management Plan
Appendix C - Indicative Highway Mitigation Plans - Section F

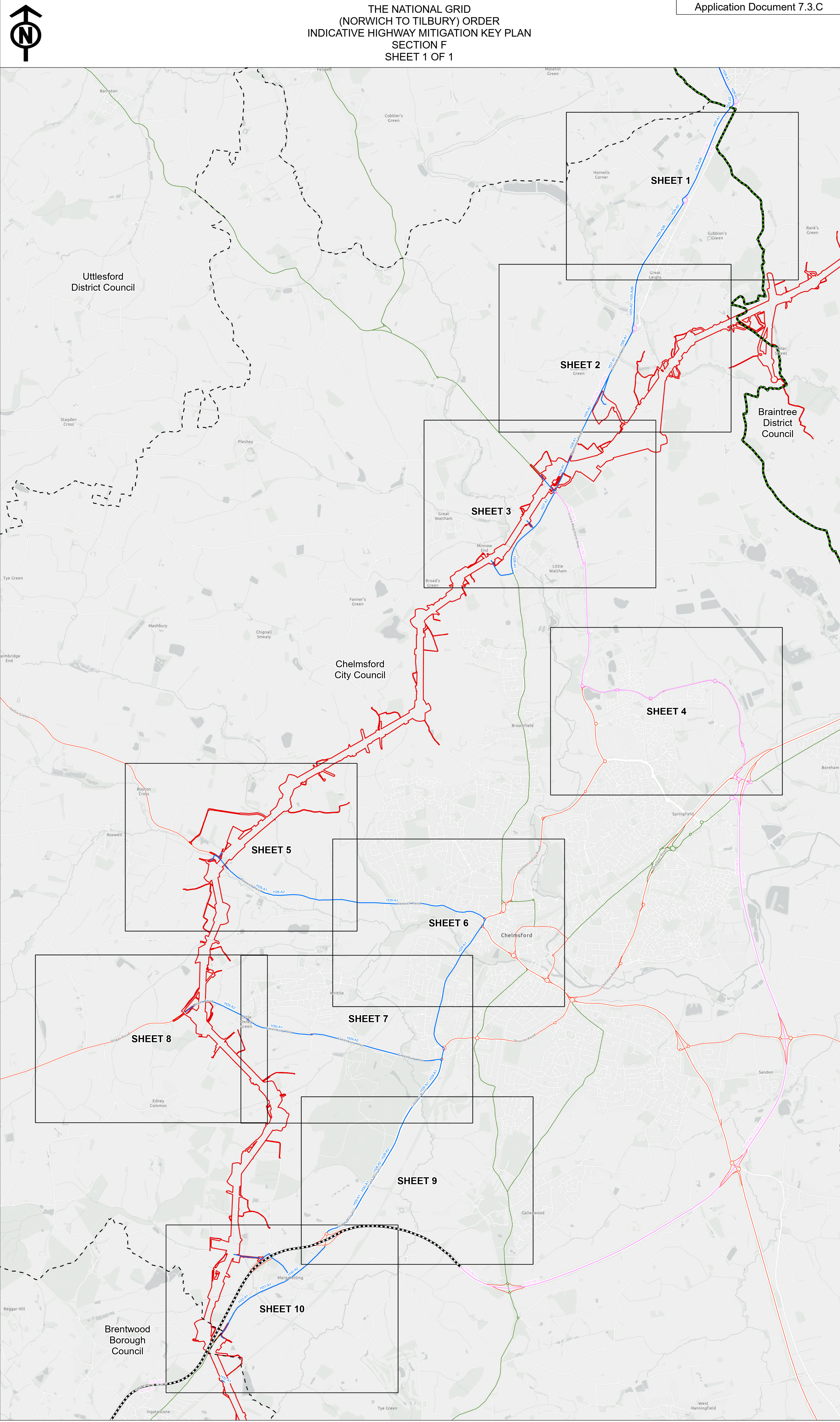
Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 Regulation 5(2)(q)

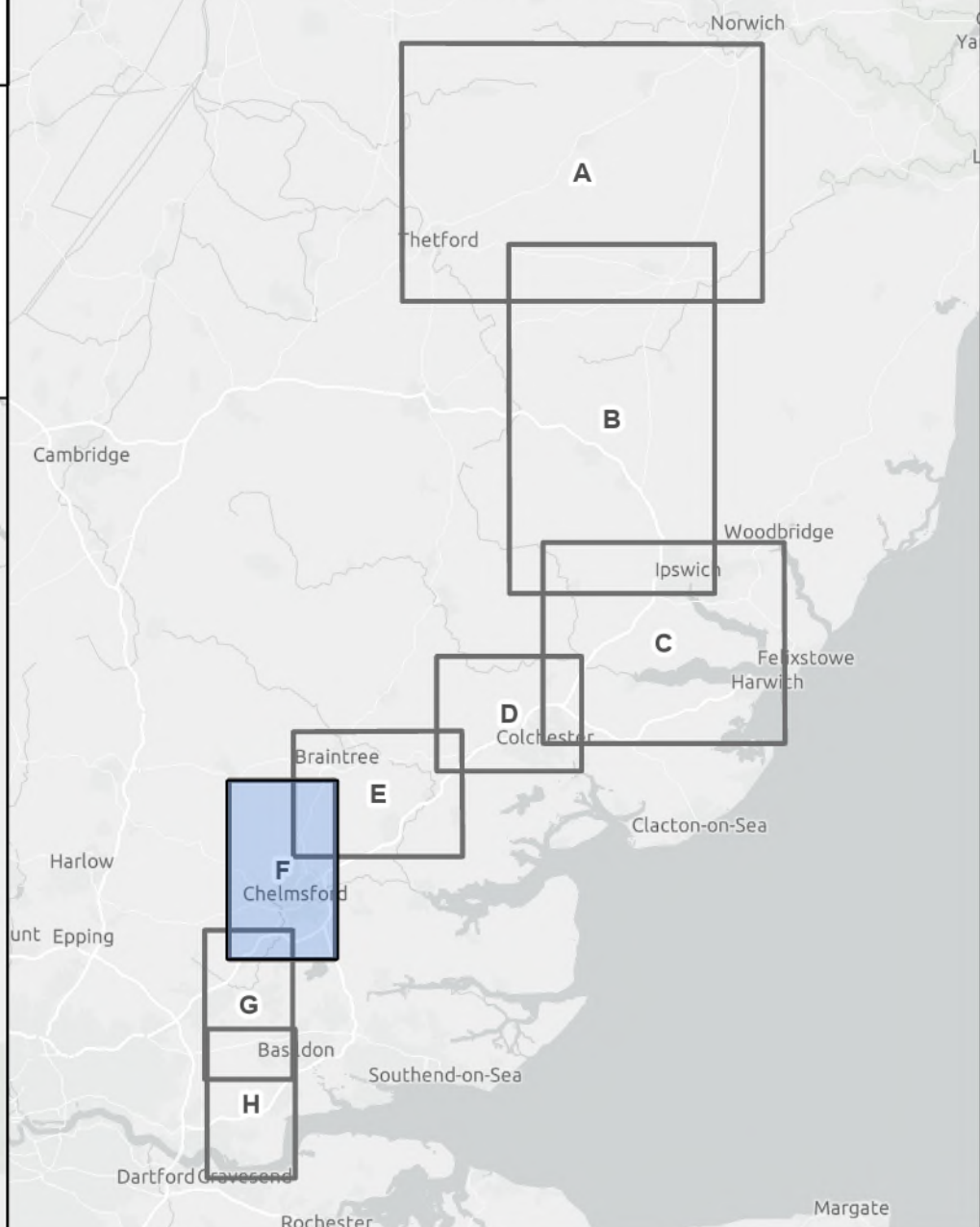
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THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION KEY PLAN
SECTION F
SHEET 1 OF 1

Application Document 7.3.C

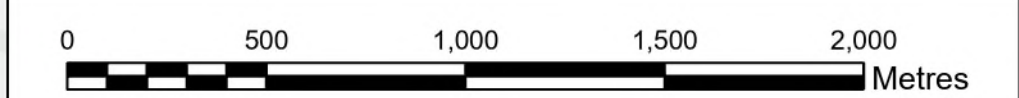
Application Document 7.3.C



- Sheet index
□ Order Limits
 - - Local authority boundary
■ Section boundary and local authority boundary
■ Section boundary
Proposed project design details
— Primary access route
— AIL access route
Existing roads
— A road
— B road

- ## Notes
1. These plans show the Order Limits and potential location for the works Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie.
 2. The plans form an Appendix to, and should be read alongside, the Outline Construction Traffic Management Plan.
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 4. The plans show proposed mitigation measures on the Primary Access Routes and All Routes.
 5. This drawing is scaled at paper size A0, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.

Coordinate System: British National Grid
Sheet X Centroid Coordinate: 569151E m Sheet Y Centroid Coordinate: 209968N m



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A	AUG-2025	For DCO submission	KT	DC	KR
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Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION KEY PLAN
SECTION F
SHEET 1 OF 1

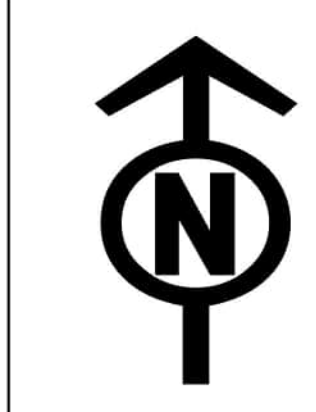
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PINS Application Number F1000003

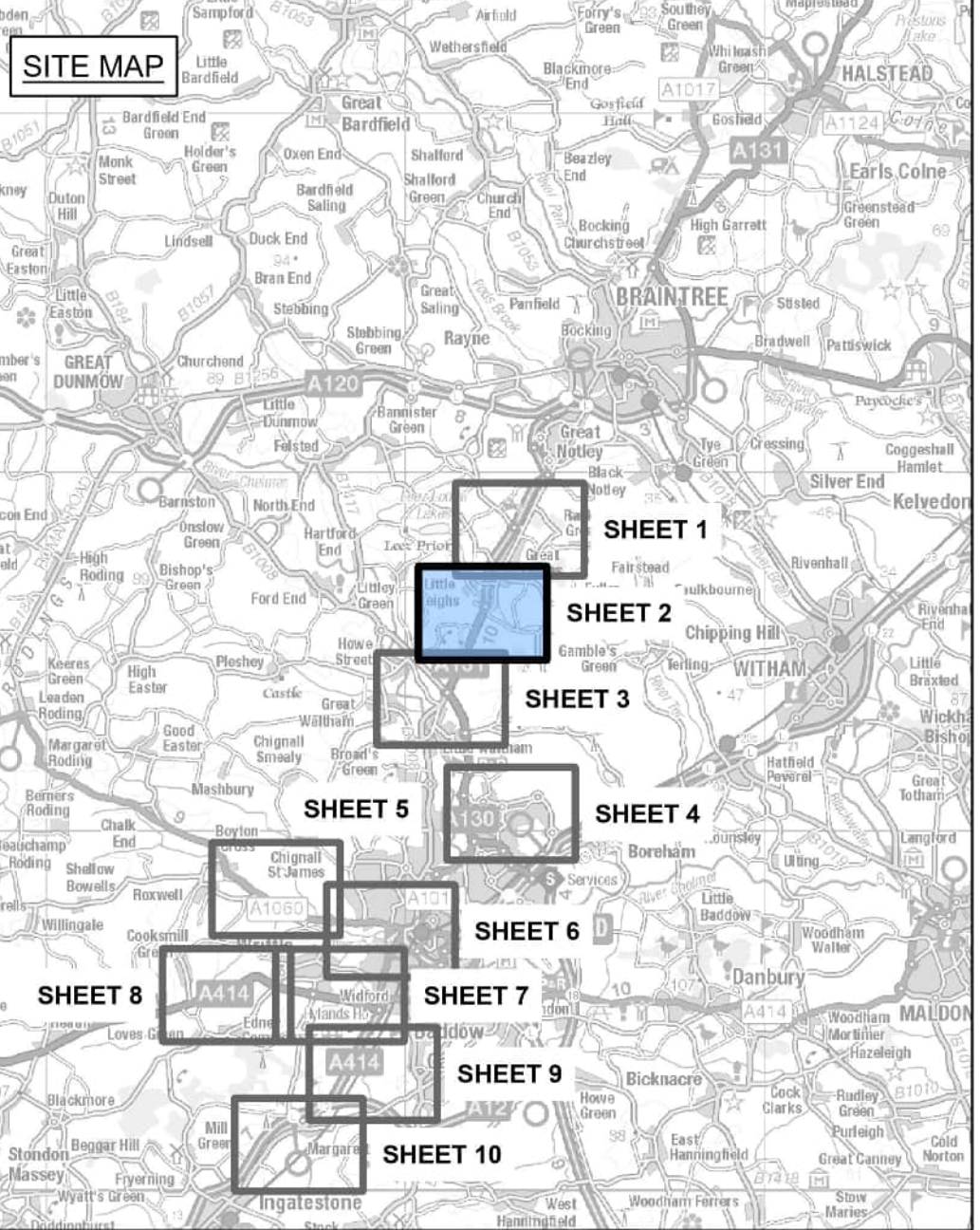
National Grid Drawing Reference

AENC-MIMAC-ENG-DWG-0094			
Scale	Sheet Size	Sheet	Issue



THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION PLANS
SECTION F (SHEET 2 OF 10,
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Sheet match line

Order Limits

Primary access route

AIL access route

Temporary works

Vegetation removal / cutting back / temporary traffic regulation orders

Modifications to existing highway features, including vegetation removal / cut back where required

Work within the existing highway boundary, including vegetation removal / cut back where required

Crossover point (bellmouth)

Design Specifications of Indicative Construction Vehicles

Mobile Crane Liebherr LTM 1250-6.1

Low Loader HGV

Low Loader (Cable Drum Delivery)

Overall Length	17.85m	Overall Length	16.63m	Overall Length	25.44m
Overall Width	3.00m	Overall Width	2.50m	Overall Width	4.50m
Overall Body Height	4.00m	Overall Body Height	3.39m	Overall Body Height	5.00m
Track Width	3.00m	Max Track Width	2.50m	Max Track Width	2.50m
Kerb to Kerb Radius	11.62m	Kerb to Kerb Radius	6.79m	Kerb to Kerb Radius	14.50m

- Notes
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Coordinate System: British National Grid

Sheet X Centroid Coordinate: 572147E m Sheet Y Centroid Coordinate: 216087N m

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THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION PLANS
SECTION F (SHEET 2 OF 10,
CHELMSFORD CITY COUNCIL)

GENERAL ARRANGEMENT
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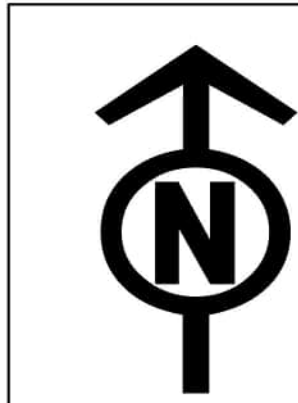
PINS Application Number EN020027

National Grid Drawing Reference
AENC-MMAC-ENG-DWG-0094

Scale 1:3,500 Sheet Size A0 Sheet SHEET 2 OF 10 Issue A

Potential Constraint Details		
Constraint No.	Description	Suggested Mitigation
F1	A131 Braintree Road identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.

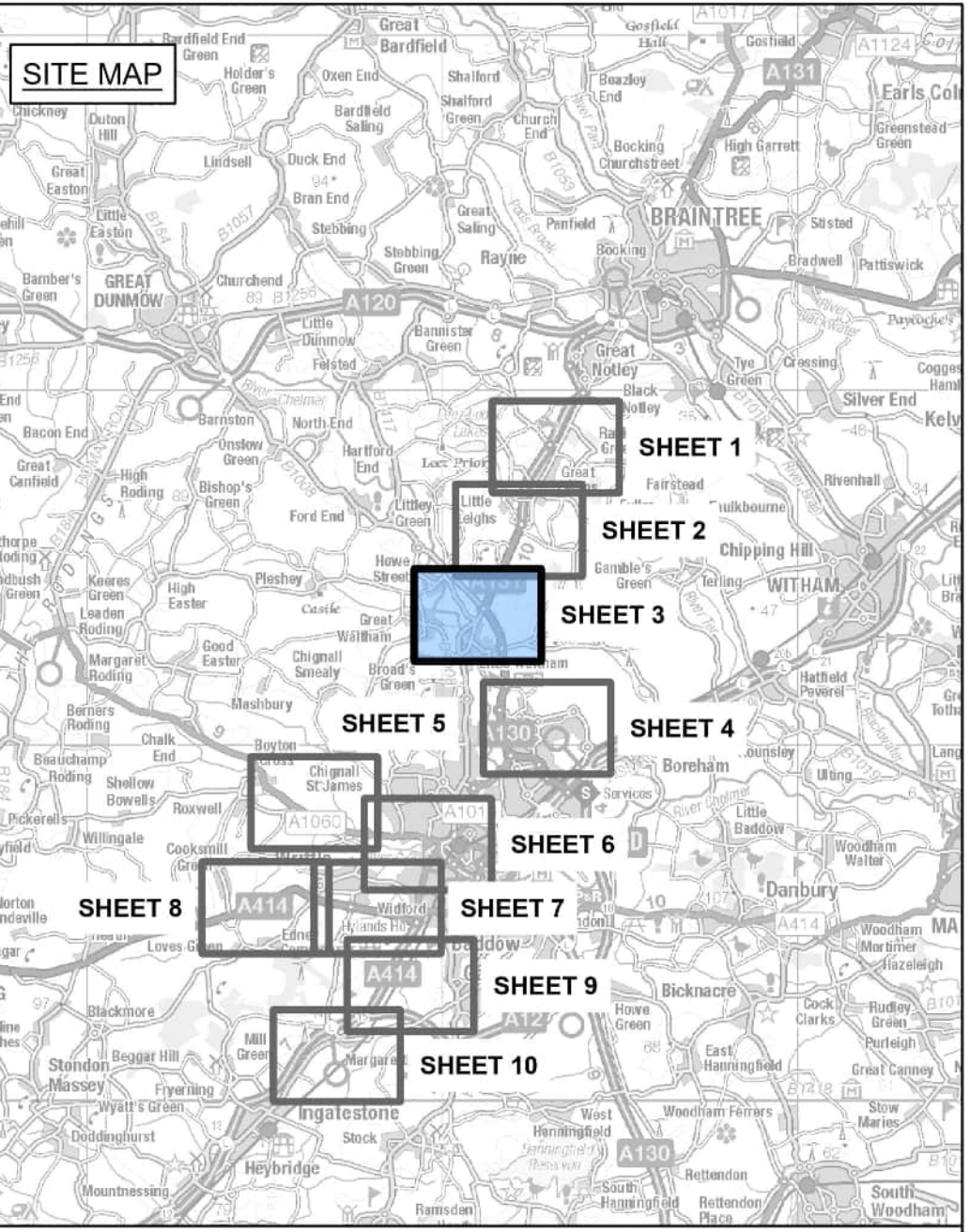
Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	AIL-AL50 Girder
H25-A2	✓	✓		
H25-A2B	✓	✓		
H25-AIL3			✓	
H25-AIL4			✓	
H26-A1	✓	✓		
H27-A1	✓	✓		
H28-A1	✓	✓		



THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION PLANS
SECTION F (SHEET 3 OF 10,
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Potential Constraint Details		
Constraint No.	Description	Suggested Mitigation
F1	A131 Braintree Road identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F2	A131 Braintree Road at roundabout identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F3	Chelmsford Road identified to be of narrow width for design vehicle movements.	Vegetation to be cut back to increase visibility. Appropriate traffic management to be provided in agreement with the Local Highway Authority.



Sheet match line	Order Limits
Primary access route	AIL access route
Temporary works	
Vegetation removal / cutting back / temporary traffic regulation orders	
Modifications to existing highway features, including vegetation removal / cut back where required	
Work within the existing highway boundary, including vegetation removal / cut back where required	
Crossover point (bellmouth)	
Site access point (bellmouth)	

Design Specifications of Indicative Construction Vehicles

Mobile Crane Liebherr LTM 1250-6.1	Low Loader HGV
Overall Length 17.85m	Overall Length 16.63m
Overall Width 3.00m	Overall Width 2.50m
Overall Body Height 4.00m	Overall Body Height 3.39m
Track Width 3.00m	Max Track Width 2.50m
Kerb to Kerb Radius 11.624m	Kerb to Kerb Radius 6.790m
Low Loader (Cable Drum Delivery)	
Overall Length 25.44m	
Overall Width 4.50m	
Overall Body Height 5.00m	
Max Track Width 2.50m	
Kerb to Kerb Radius 14.500m	

- Notes
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Coordinate System: British National Grid	
Sheet X Centroid Coordinate: 57089E m	Sheet Y Centroid Coordinate: 213667N m
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SECTION F (SHEET 3 OF 10,
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GENERAL ARRANGEMENT
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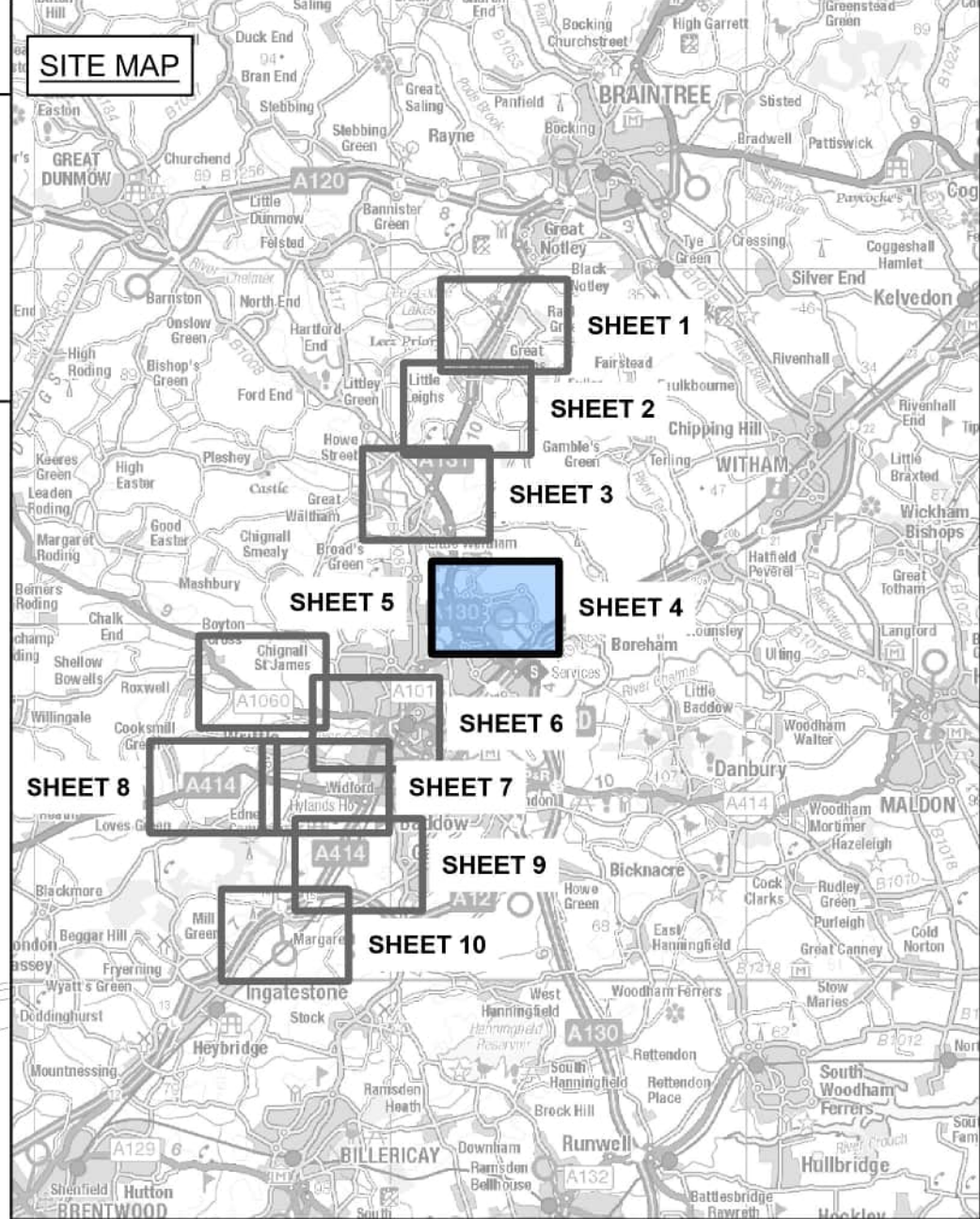
nationalgrid			
PINS Application Number EN020027			
National Grid Drawing Reference AENC-MMAC-ENG-DWG-0094			
Scale 1:3,500	Sheet Size A0	Sheet SHEET 3 OF 10	Issue A

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	AIL-AL50 Girder
H25-A2	✓	✓		
H25-AIL3			✓	
H25-AIL4			✓	
H25-AIL5			✓	
H25-AIL6			✓	
H26-A1	✓	✓		
H27-A1	✓	✓		
H28-A1	✓	✓		



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Legend:

- AIL access route
- Temporary works
- Vegetation removal / cutting back / temporary traffic regulation orders
- Modifications to existing highway features, including vegetation removal / cut back where required
- Work within the existing highway boundary, including vegetation removal / cut back where required

Design Specifications of Indicative Construction Vehicles



Low Loader (Cable Drum Delivery)

Overall Length	25.440m
Overall Width	4.500m
Overall Body Height	5.000m
Max Track Width	2.500m
Kerb to Kerb Radius	14.500m

Notes

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Coordinate System: British National Grid
Sheet X Centroid Coordinate: 572940E m Sheet Y Centroid Coordinate: 210471N m

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GENERAL ARRANGEMENT
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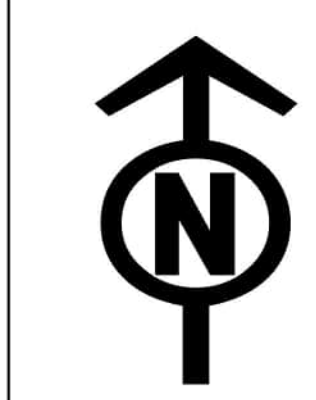
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National Grid Drawing Reference
AENC-MMAC-ENG-DWG-0094

Scale 1:3,500 Sheet Size A0 Sheet SHEET 4 OF 10 Issue A

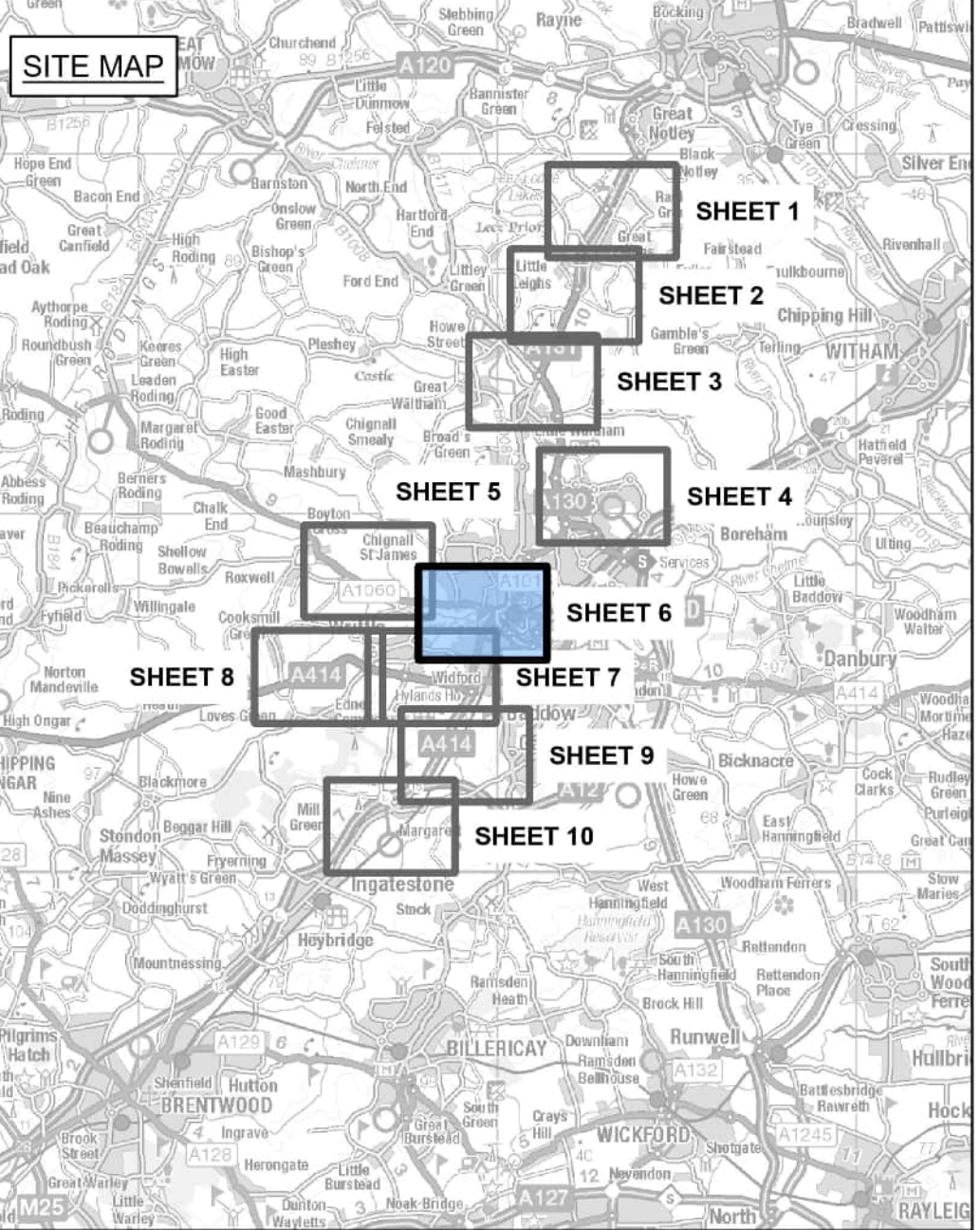
Potential Constraint Details		
Constraint No.	Description	Suggested Mitigation
F4	A131 Essex Regiment Way roundabout identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F5	A131 Channels Drive at roundabout with Essex Regiment Way identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F6	A131 Channels Drive at junction with Lakeview Crescent identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F7	A131 Channels Drive at roundabout with Fairway Drive identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F8	A131 Channels Drive at roundabout with Commonwealth Link identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F9	A131 Beaulieu Parkway at roundabout with Generals Lane identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F10	A131 Beaulieu Parkway identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F11	A131 Beaulieu Parkway at roundabout with Lovers Way identified to be of narrow width for design vehicle movements.	Create temporary overrun areas within the outer grass verge areas where vehicle tracking indicates this requirement. Street furniture to be removed and relocated where impacted by vehicle tracking. Appropriate traffic management to be provided in agreement with the Local Highway Authority.
F12	A131 at Generals Lane roundabout identified to be of narrow width for design vehicle movements.	Temporary removal of street furniture and traffic signal poles to accommodate design vehicle movements. Appropriate traffic management to be provided in agreement with the Local Highway Authority. Alternative option: Cable Drum AIL may travel in anticlockwise direction with police escort.

Construction Vehicles Travelling on Routes			
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)
H25-AIL5			✓
H25-AIL6			✓



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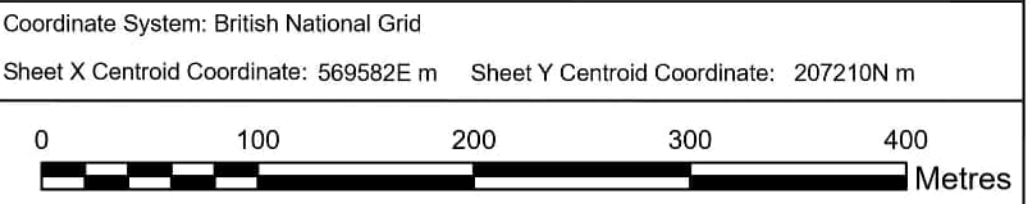


- Sheet match line
- Temporary works
- Primary access route
 - Vegetation removal / cutting back / temporary traffic regulation orders where required
 - Modifications to existing highway features, including vegetation removal / cut back where required
 - Works within the existing highway boundary, including vegetation removal / cut back where required

Design Specifications of Indicative Construction Vehicles

	
Mobile Crane Liebherr LTM 1250-6.1	Low Loader HGV
Overall Length 17.555m	Overall Length 16.633m
Overall Width 3.000m	Overall Width 2.500m
Overall Body Height 4.000m	Overall Body Height 3.396m
Track Width 3.000m	Max Track Width 2.500m
Kerb to Kerb Radius 11.624m	Kerb to Kerb Radius 6.790m

- Notes
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SECTION F (SHEET 6 OF 10,
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GENERAL ARRANGEMENT
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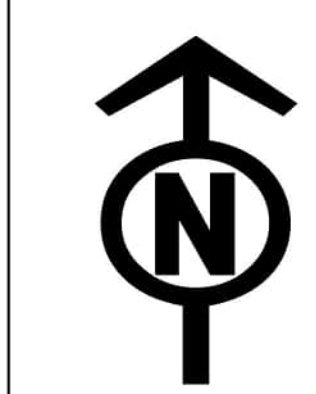
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PINS Application Number EN020027

National Grid Drawing Reference
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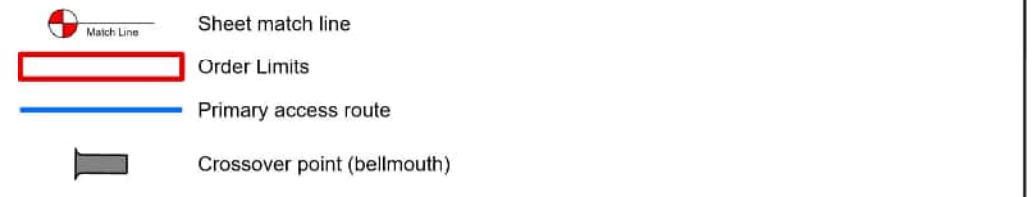
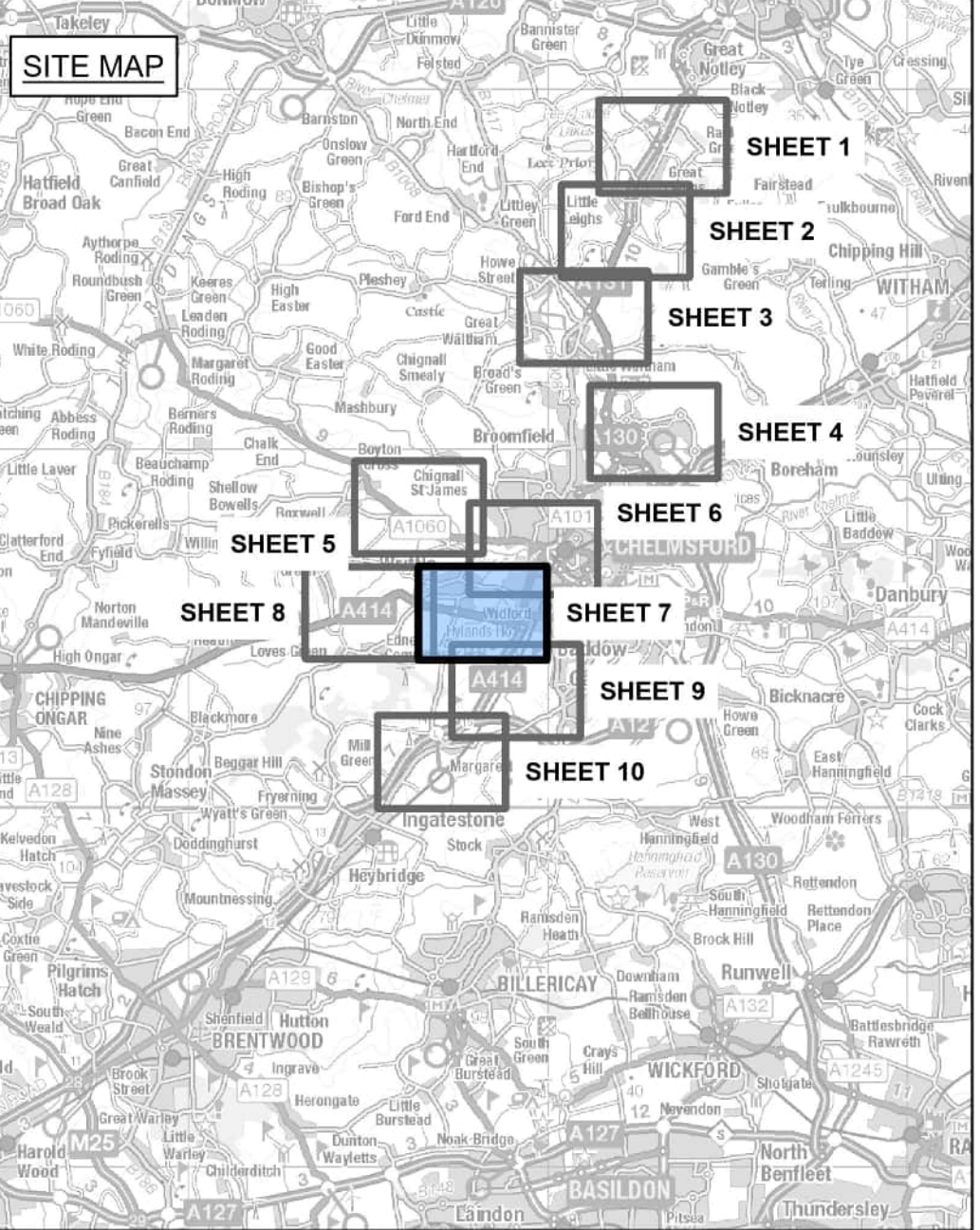
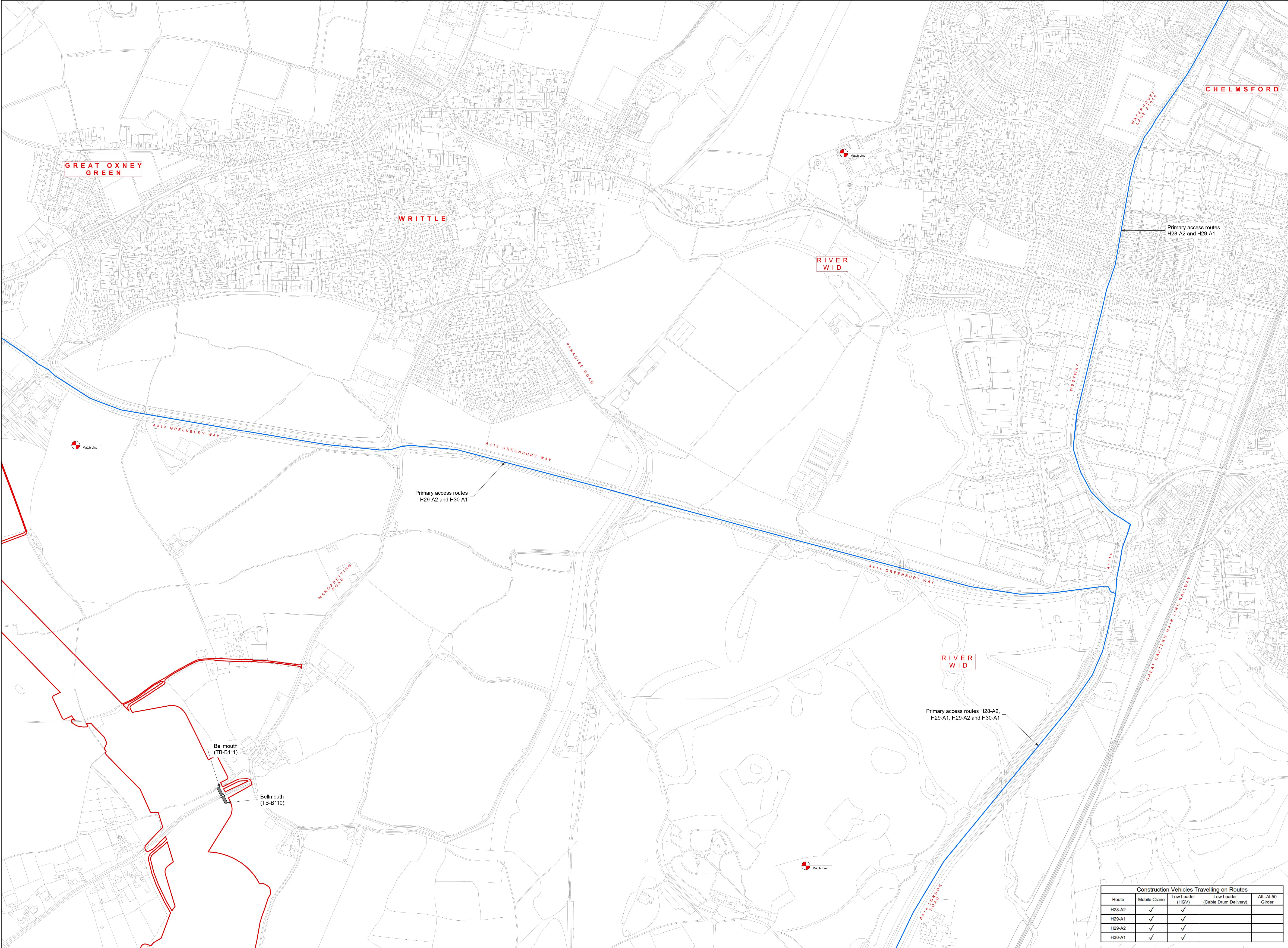
Scale	Sheet Size	Sheet	Issue
1:3,500	A0	SHEET 6 OF 10	A

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	AIL-AL50 Girder
H28-A2	✓	✓		
H29-A1	✓	✓		



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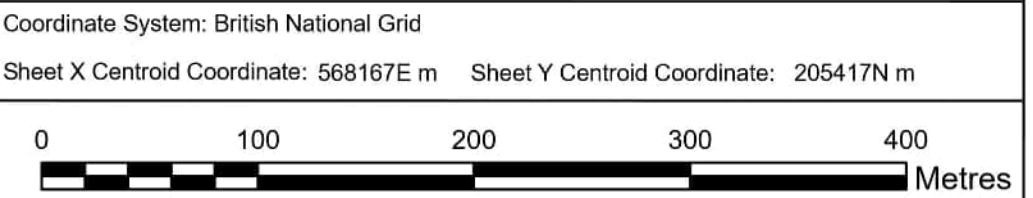
Application Document 7.3.C



Design Specifications of Indicative Construction Vehicles

	
Mobile Crane Liebherr LTM 1250-6-1	Low Loader HGV
Overall Length 17.835m	Overall Length 16.633m
Overall Width 3.000m	Overall Width 2.500m
Overall Body Height 4.000m	Overall Body Height 3.396m
Track Width 3.000m	Max Track Width 2.500m
Kerb to Kerb Radius 11.624m	Kerb to Kerb Radius 6.790m

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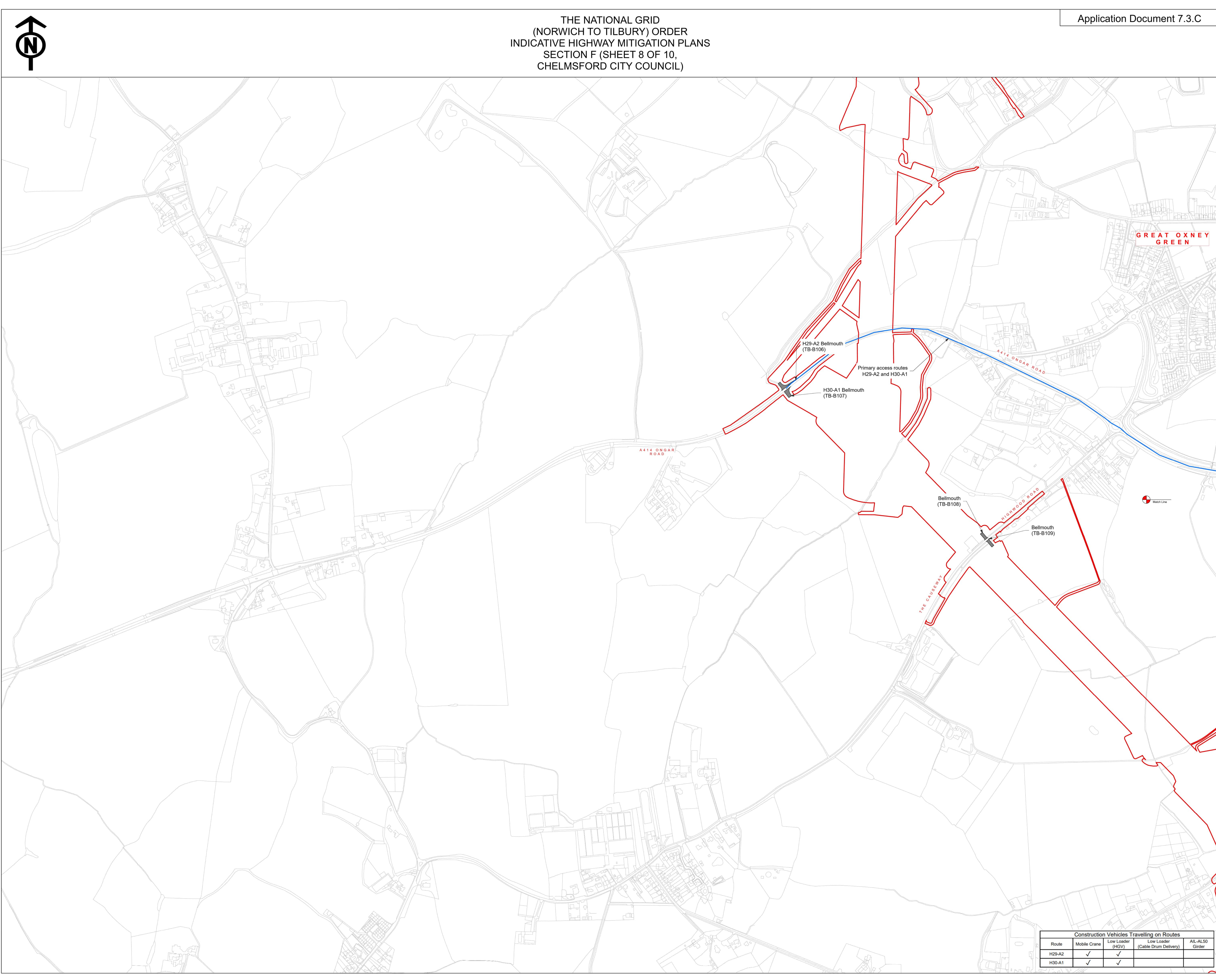
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National Grid Drawing Reference
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Scale	Sheet Size	Sheet	Issue
1:3,500	A0	SHEET 7 OF 10	A

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	AIL-AL50 Girders
H28-A2	✓	✓		
H29-A1	✓	✓		
H29-A2	✓	✓		
H30-A1	✓	✓		



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GREAT OXNEY GREEN

H29-A2 Bellmouth (TB-B106)
H30-A1 Bellmouth (TB-B107)

Primary access routes H29-A2 and H30-A1

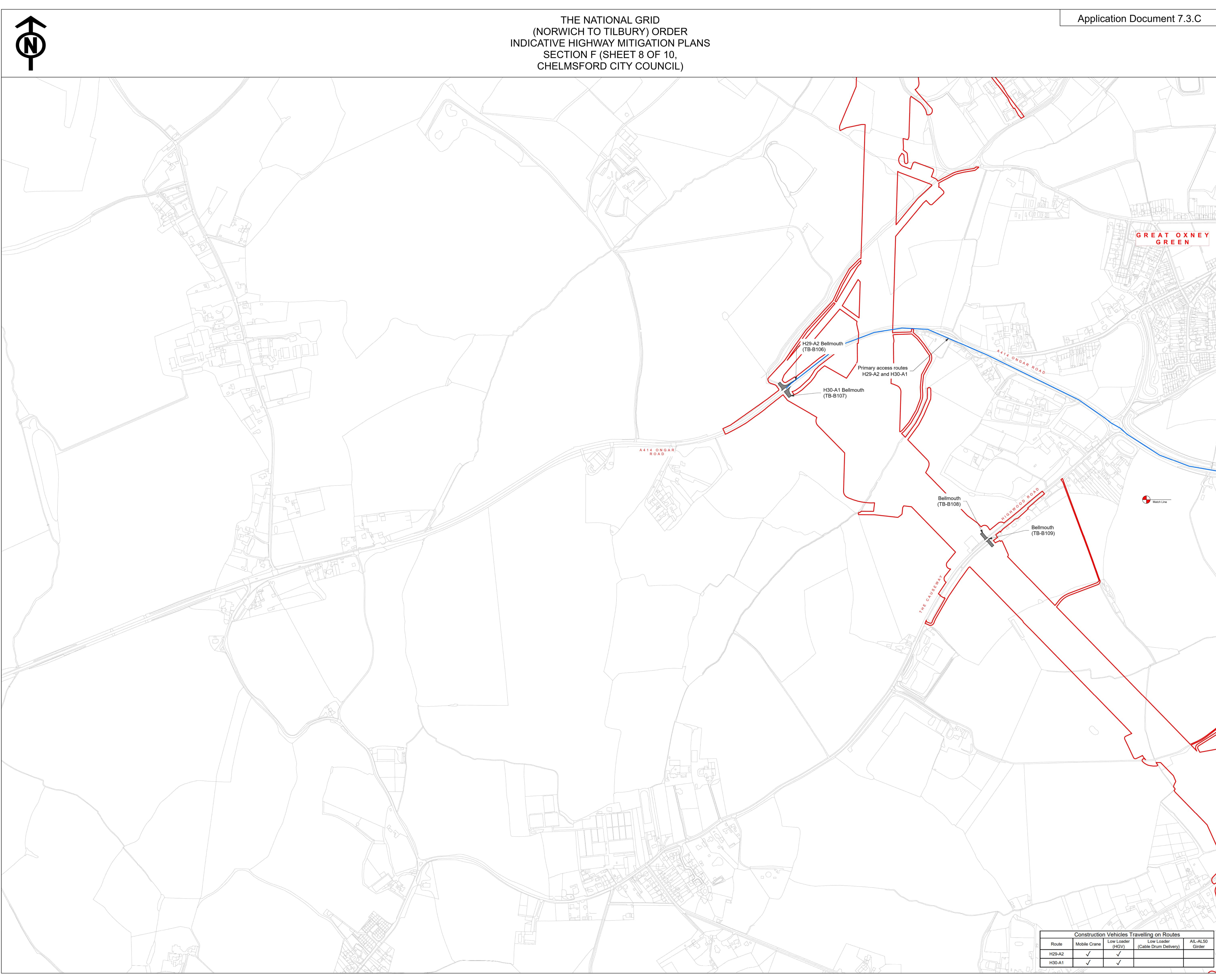
A114 ONGAR ROAD

Bellmouth (TB-B108)
Bellmouth (TB-B109)

HIGHWOOD ROAD

Match Line

Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		



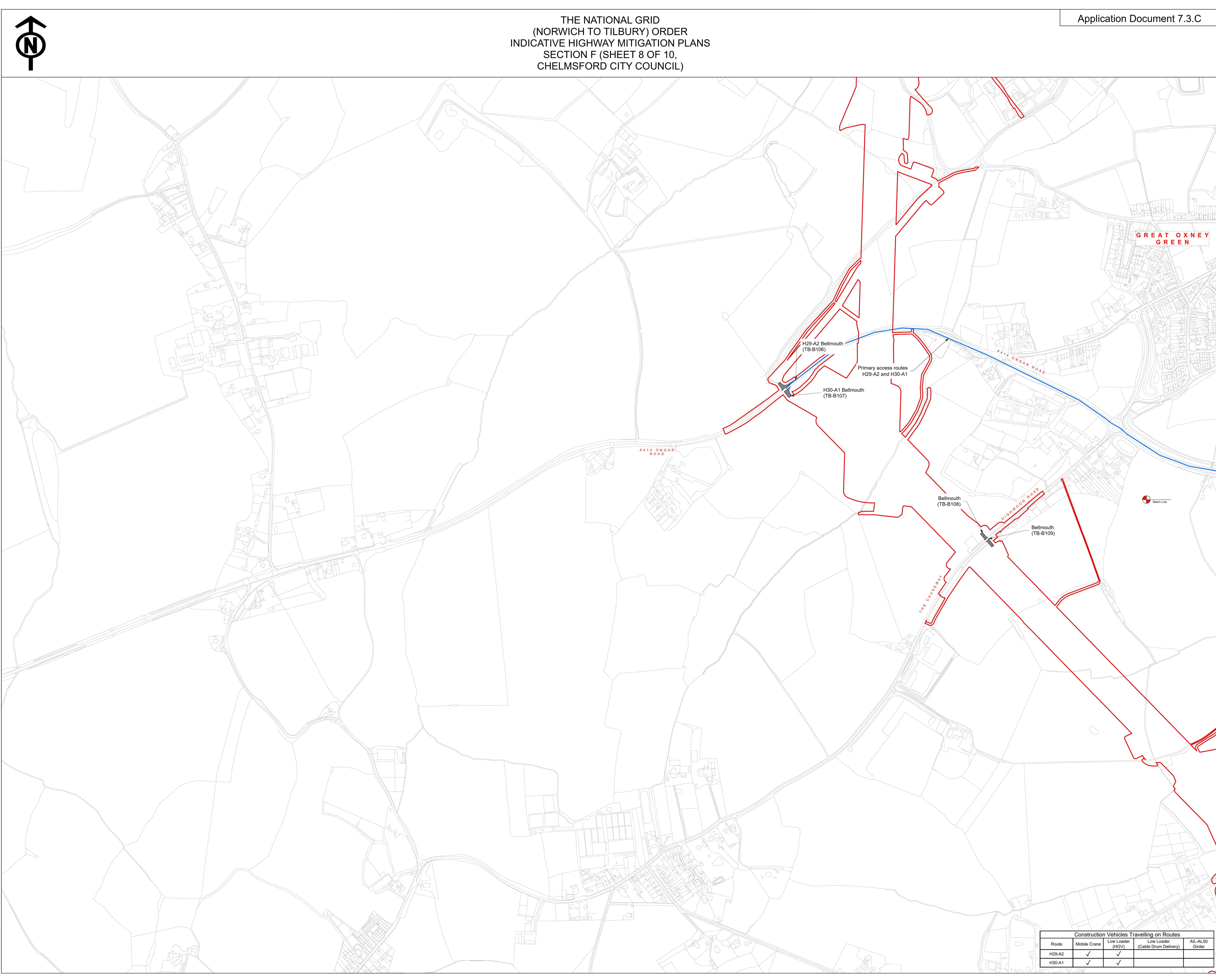
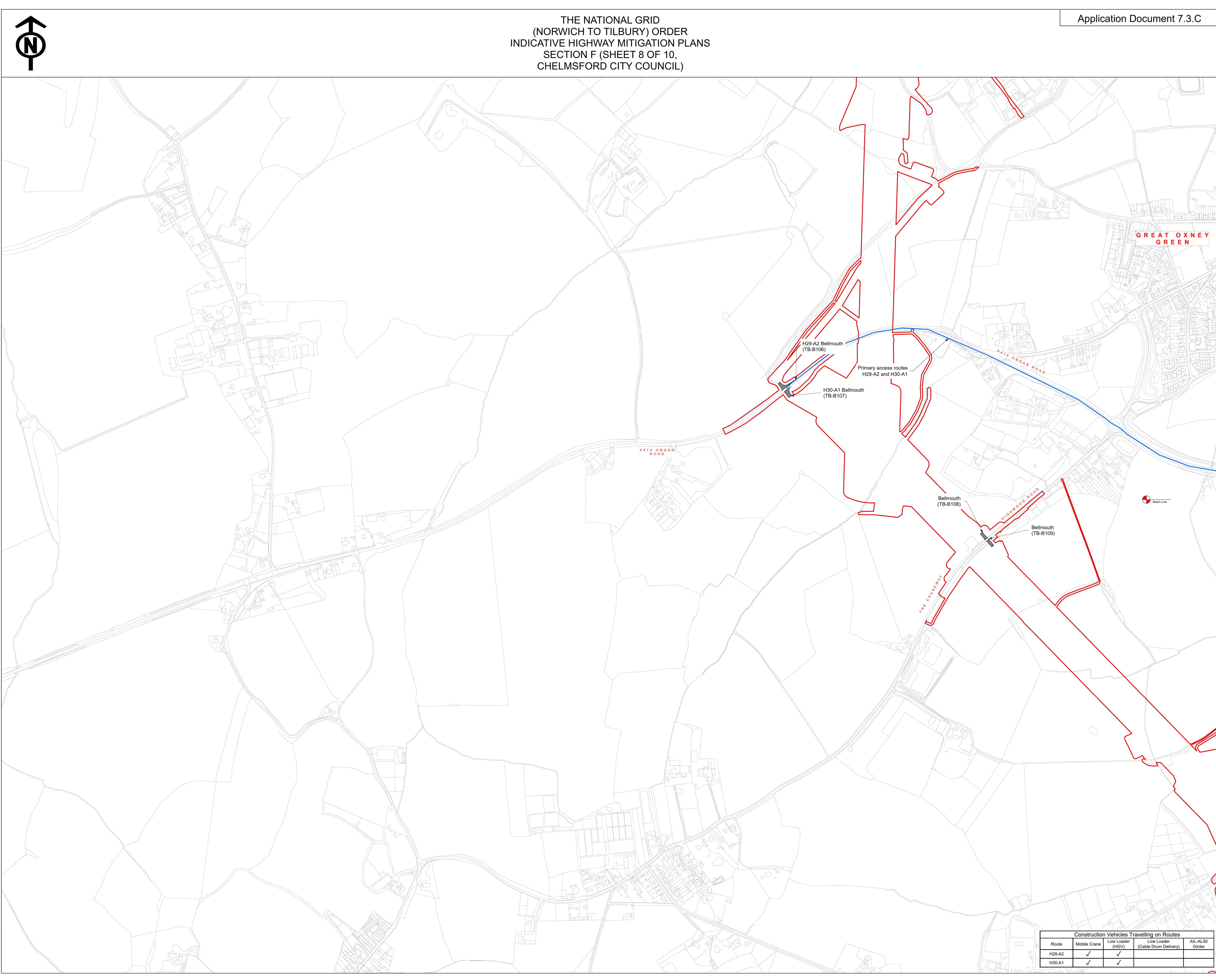
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**SECTION F (SHEET 8 OF 10,
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Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		

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The National Grid
(Norwich to Tilbury) Order
Indicative Highway Mitigation Plans
Section F (Sheet 8 of 10,
Chelmsford City Council)

Application Document 7.3.C

H29-A2 Bellmouth (TB-B106)
H30-A1 Bellmouth (TB-B107)
Primary access routes
H29-A2 and H30-A1
A114 ONGAR ROAD
HIGHWOOD ROAD
BELLMOUTH (TB-B108)
THE CAUSEWAY
GREAT OXNEY GREEN
Match Line

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		

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GREAT OXNEY GREEN

H29-A2 Bellmouth (TB-B106)
H30-A1 Bellmouth (TB-B107)
Primary access routes H29-A2 and H30-A1
A114 ONGAR ROAD
HIGHWOOD ROAD
THE CAUSEWAY
Bellmouth (TB-B108)
Bellmouth (TB-B109)
Match Line

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		

GREAT OXNEY GREEN

H29-A2 Bellmouth
(TB-B106)

H30-A1 Bellmouth
(TB-B107)

Primary access routes
H29-A2 and H30-A1

Bellmouth
(TB-B108)

Bellmouth
(TB-B109)

THE CAUSEWAY

HIGHWOOD ROAD

A114 ONGAR ROAD

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		

[illegible]

**THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION PLANS
SECTION F (SHEET 8 OF 10,
CHELMSFORD CITY COUNCIL)**

GREAT OXNEY GREEN

H29-A2 Bellmouth (TB-B106)
H30-A1 Bellmouth (TB-B107)
Primary access routes H29-A2 and H30-A1

A114 ONGAR ROAD

Bellmouth (TB-B108)
Bellmouth (TB-B109)
HIGHWOOD ROAD
THE CAUSEWAY

Match Line

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		

[illegible]

The National Grid
(Norwich to Tilbury) Order
Indicative Highway Mitigation Plans
Section F (Sheet 8 of 10,
Chelmsford City Council)

Application Document 7.3.C

H29-A2 Bellmouth
(TB-B106)

H30-A1 Bellmouth
(TB-B107)

Primary access routes
H29-A2 and H30-A1

A114 ONGAR ROAD

Bellmouth
(TB-B108)

Bellmouth
(TB-B109)

GREAT OXNEY GREEN

Match Line

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		

[illegible][illegible][illegible]

**THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER**

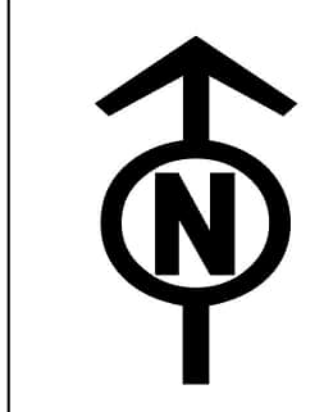
INDICATIVE HIGHWAY MITIGATION PLANS

**SECTION F (SHEET 8 OF 10,
CHELMSFORD CITY COUNCIL)**

GREAT OXNEY GREEN

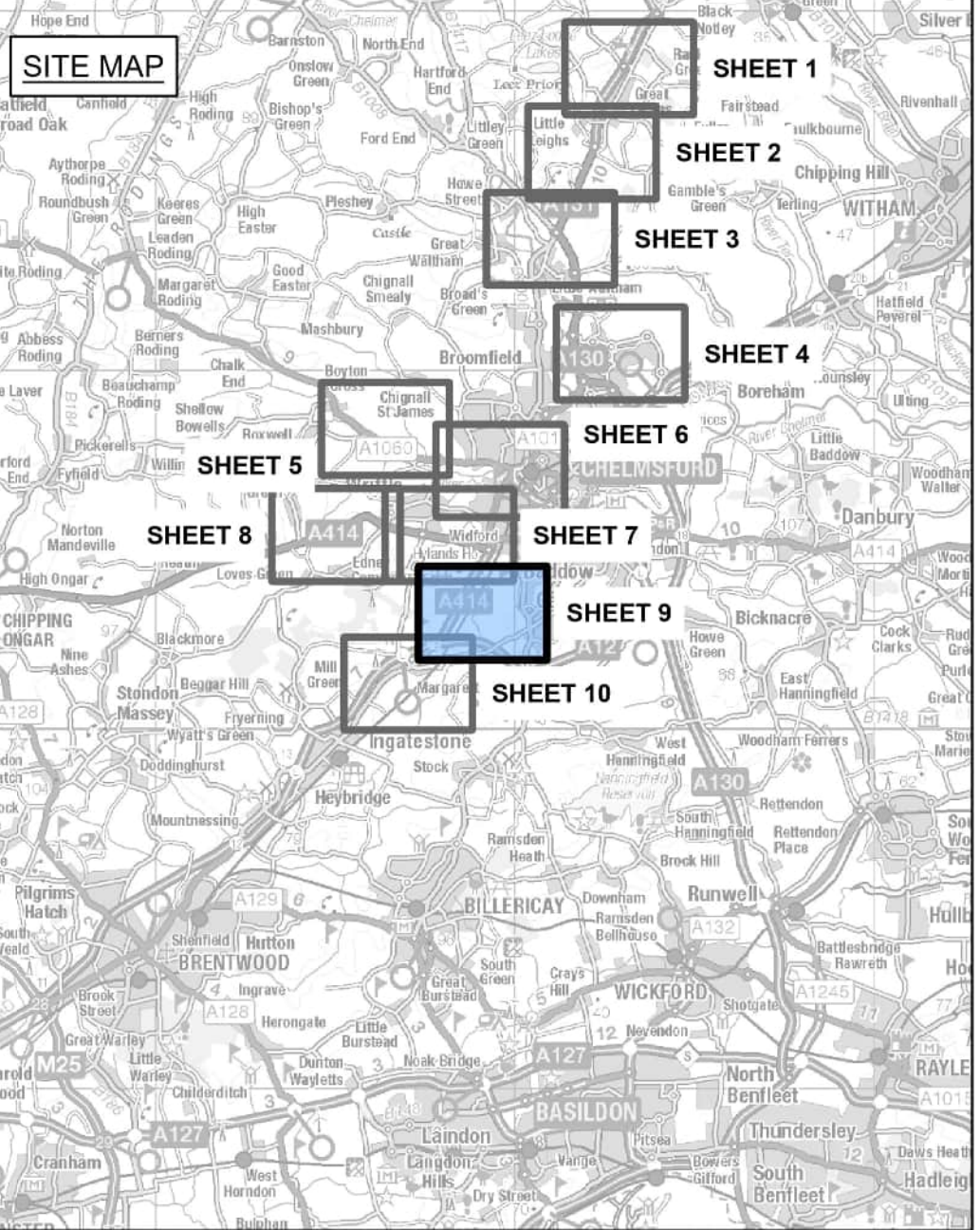
H29-A2 Bellmouth (TB-B106)
H30-A1 Bellmouth (TB-B107)
Primary access routes H29-A2 and H30-A1
A114 ONGAR ROAD
Bellmouth (TB-B108)
Highwood Road
The Causeway
Bellmouth (TB-B109)

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	All-AL50 Girder
H29-A2	✓	✓		
H30-A1	✓	✓		



THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION PLANS
SECTION F (SHEET 9 OF 10,
CHELMSFORD CITY COUNCIL)

Application Document 7.3.C

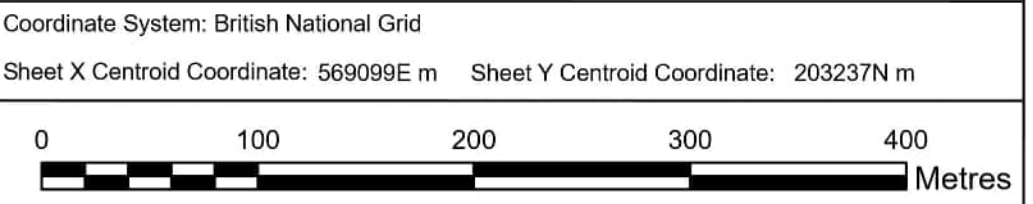


Design Specifications of Indicative Construction Vehicles

	
Mobile Crane Liebherr LTM 1250-6.1	Low Loader HGV
Overall Length 17.85m	Overall Length 16.63m
Overall Width 3.00m	Overall Width 2.50m
Overall Body Height 4.00m	Overall Body Height 3.39m
Track Width 3.00m	Max Track Width 2.50m
Kerb to Kerb Radius 11.62m	Kerb to Kerb Radius 6.79m

	
Low Loader (Cable Drum Delivery)	
Overall Length 25.44m	
Overall Width 4.50m	
Overall Body Height 5.00m	
Max Track Width 2.50m	
Kerb to Kerb Radius 14.50m	

- Notes**
1. These plans show the Order Limits and potential location for the works. Due to the need for future flexibility, National Grid will be applying for Order Limits and Limits of Deviation within its Development Consent Order, within which any final alignment would lie.
 2. The plans form an Appendix to, and should be read alongside, the Outline Construction Traffic Management Plan.
 3. The proposed mitigation measures have been developed through engagement with the relevant local highways authorities and, where applicable, National Highways.
 4. The plans show proposed mitigation measures on the Primary Access Routes and AIL Routes.
 5. This drawing is scaled at paper size A0, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against.



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A	AUG-2025	For DCO submission	KT	DC	KR
Issue	Date	Remarks	Drawn	Checked	Approved

Title

THE NATIONAL GRID
(NORWICH TO TILBURY) ORDER
INDICATIVE HIGHWAY MITIGATION PLANS
SECTION F (SHEET 9 OF 10,
CHELMSFORD CITY COUNCIL)

GENERAL ARRANGEMENT
FOR INFORMATION ONLY

nationalgrid

PINS Application Number EN020027

National Grid Drawing Reference
AENC-MMAC-ENG-DWG-0094

Scale	Sheet Size	Sheet	Issue
1:3,500	A0	SHEET 9 OF 10	A

Construction Vehicles Travelling on Routes				
Route	Mobile Crane	Low Loader (HGV)	Low Loader (Cable Drum Delivery)	AIL-ALSO Girder
H25-A1L5			✓	
H25-A1L6			✓	
H28-A2	✓	✓		
H29-A1	✓	✓		
H29-A2	✓	✓		
H30-A1	✓	✓		
H30-A2	✓	✓		
H31-A1	✓	✓		
H32-A1	✓	✓		

