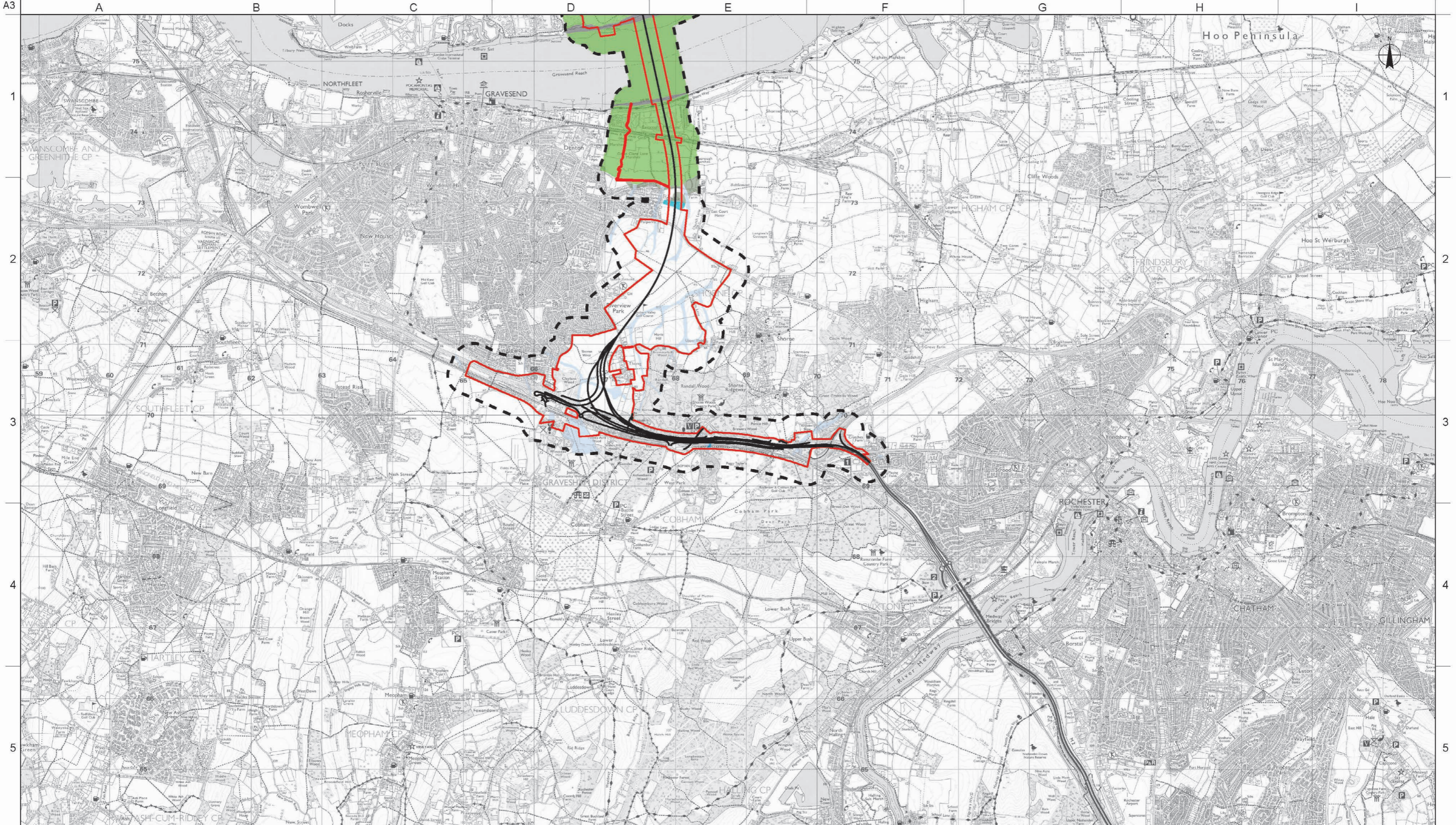


Lower Thames Crossing
**Preliminary Environmental
Information Report**
Figures

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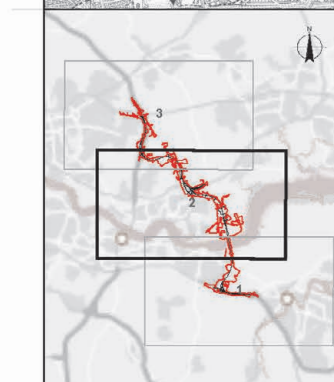
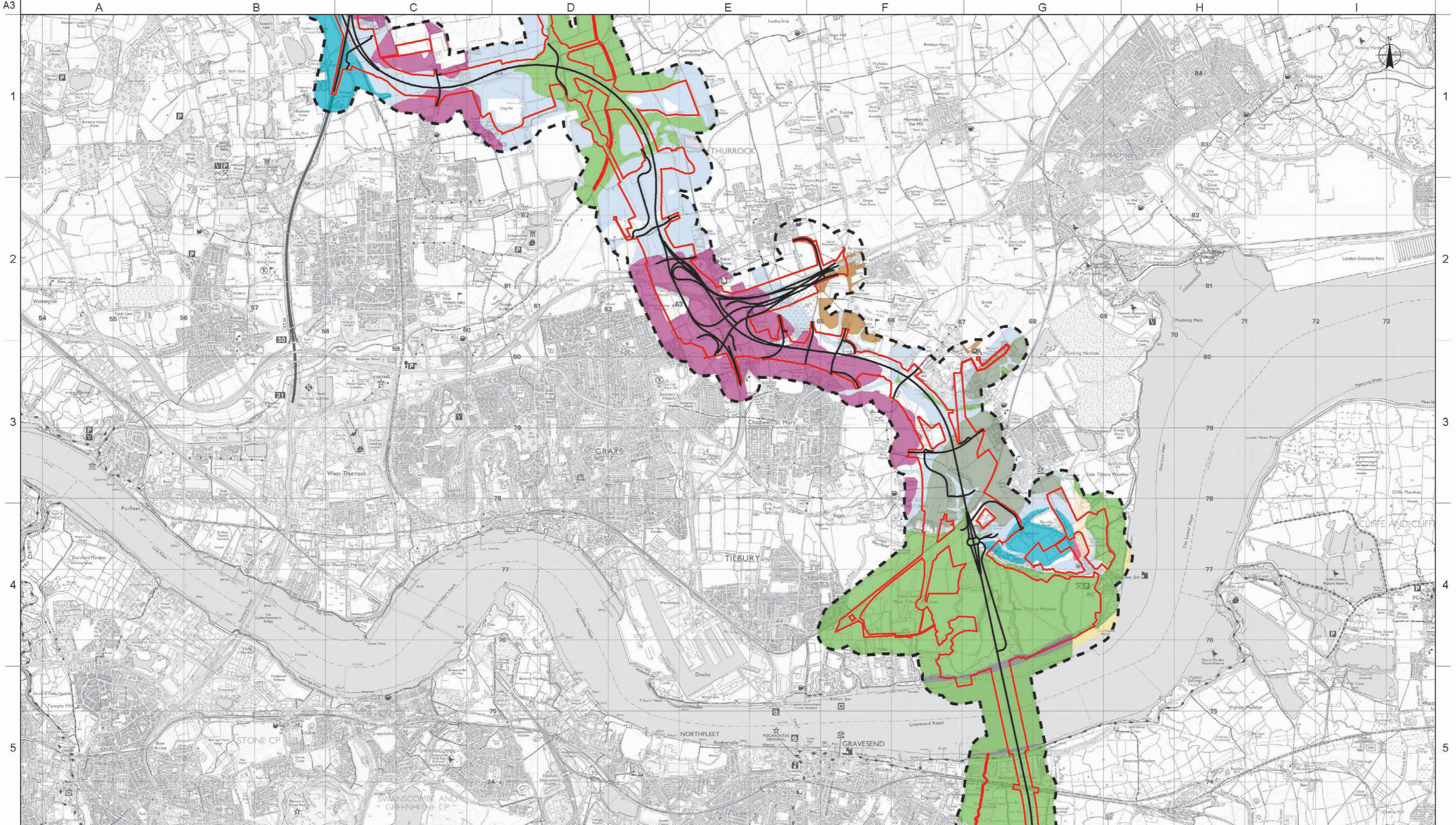


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	Development Boundary		Glaciofluvial Deposits (Mid Pleistocene)
	250m Study Area		Glaciolacustrine Deposits (Mid Pleistocene)
	Beach and Tidal Flat Deposits (Undifferentiated)		Head
	Black Park Gravel Member		Ilford Silt Member
	Boyn Hill Gravel Member		Kempton Park Gravel Formation
	Clay-with-flints Formation		Lowestoft Formation
	Peat		River Terrace Deposits 1
	River Terrace Deposits (Undifferentiated)		River Terrace Deposits 2
	River Terrace Deposits 1		Stanmore Gravel Formation
	River Terrace Deposits 2		Taplow Gravel Formation
	Stanmore Gravel Formation		Tidal River Or Creek Deposits
	Taplow Gravel Formation		
	Tidal River Or Creek Deposits		

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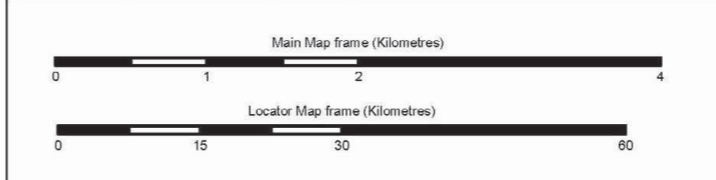
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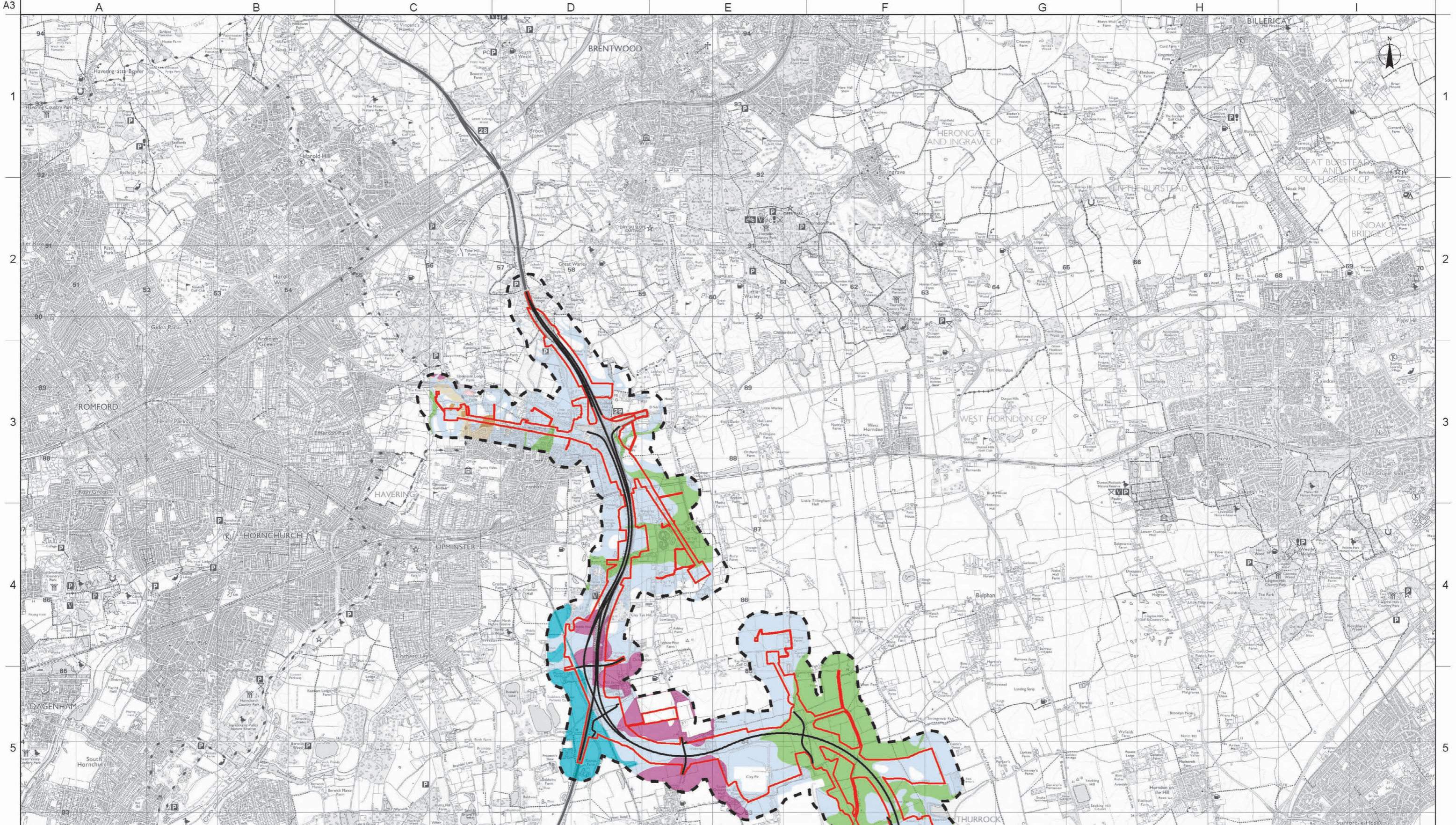


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	Alluvium		River Terrace Deposits 1
	Beach and Tidal Flat Deposits (Undifferentiated)		River Terrace Deposits 2
	Black Park Gravel Member		Stanmore Gravel Formation
	Boyn Hill Gravel Member		Taplow Gravel Formation
	Clay-with-flints Formation		Tidal River Or Creek Deposits
	Glaciolacustrine Deposits (Mid Pleistocene)		
	Head		
	Ilford Silt Member		
	Kempton Park Gravel Formation		
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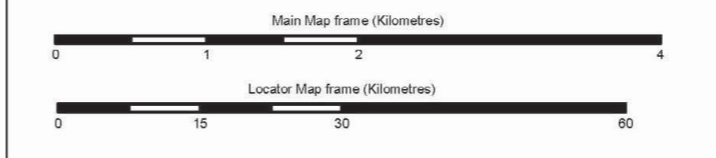


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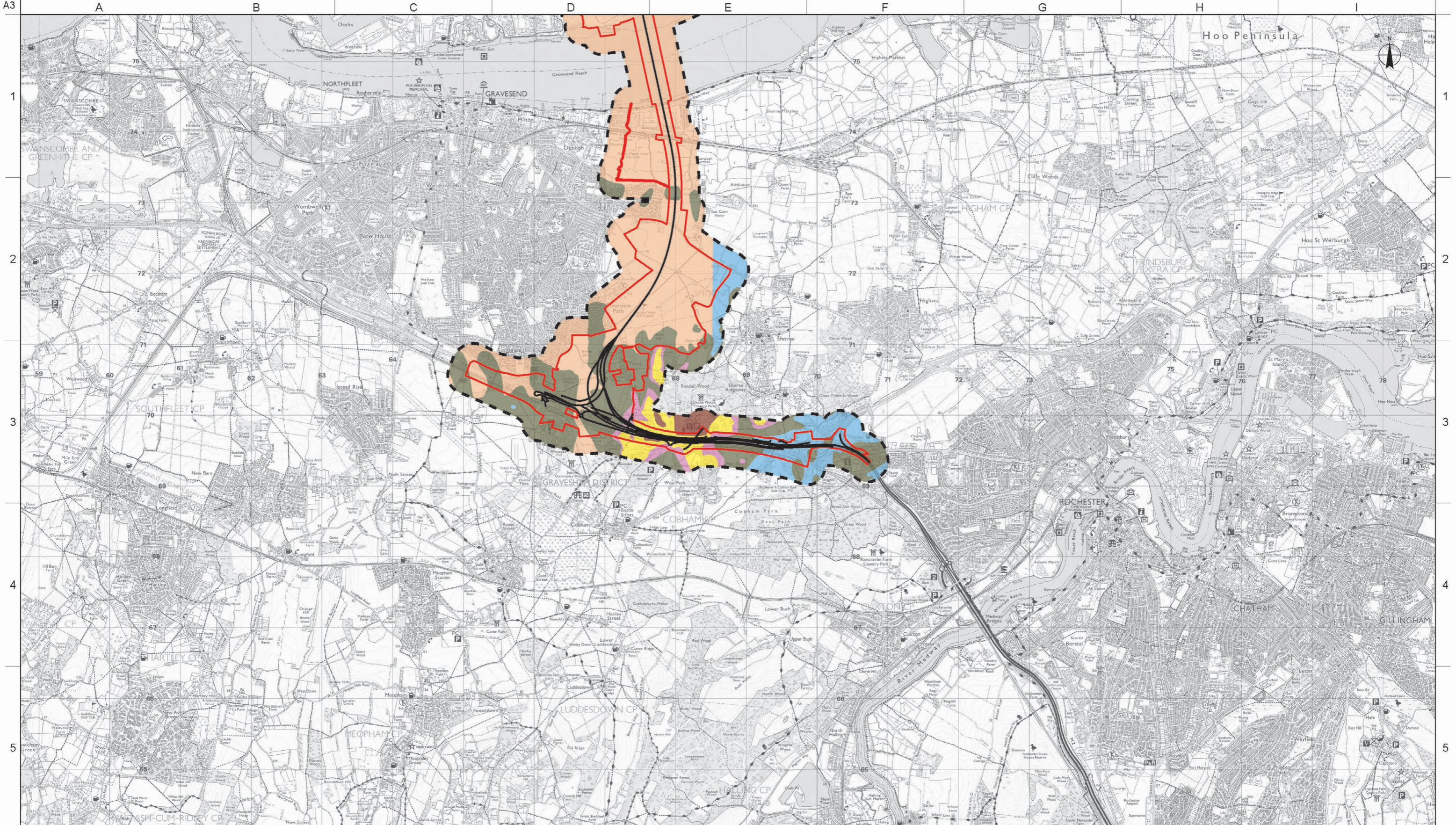


Legend					
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	Development Boundary		Beach and Tidal Flat Deposits (Undifferentiated)		Head
	250m Study Area		Black Park Gravel Member		River Terrace Deposits 1
	Alluvium		Boyn Hill Gravel Member		River Terrace Deposits 2
	Glaciolacustrine Deposits (Mid Pleistocene)		Kempton Park Gravel Formation		Stanmore Gravel Formation
	Alluvium		Lowestoft Formation		Taplow Gravel Formation
	Head		Lynch Hill Gravel Member		Tidal River Or Creek Deposits
	River Terrace Deposits 1				
	River Terrace Deposits 2				
	Ilford Silt Member				
	Kempton Park Gravel Formation				
	Lowestoft Formation				
	Lynch Hill Gravel Member				
	Clay-with-flints Formation				

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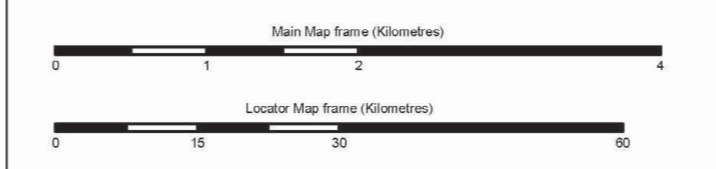


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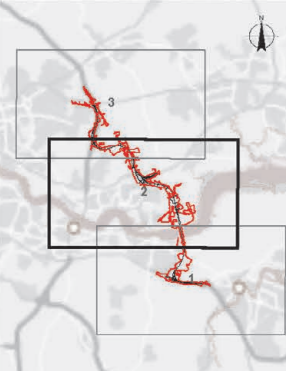
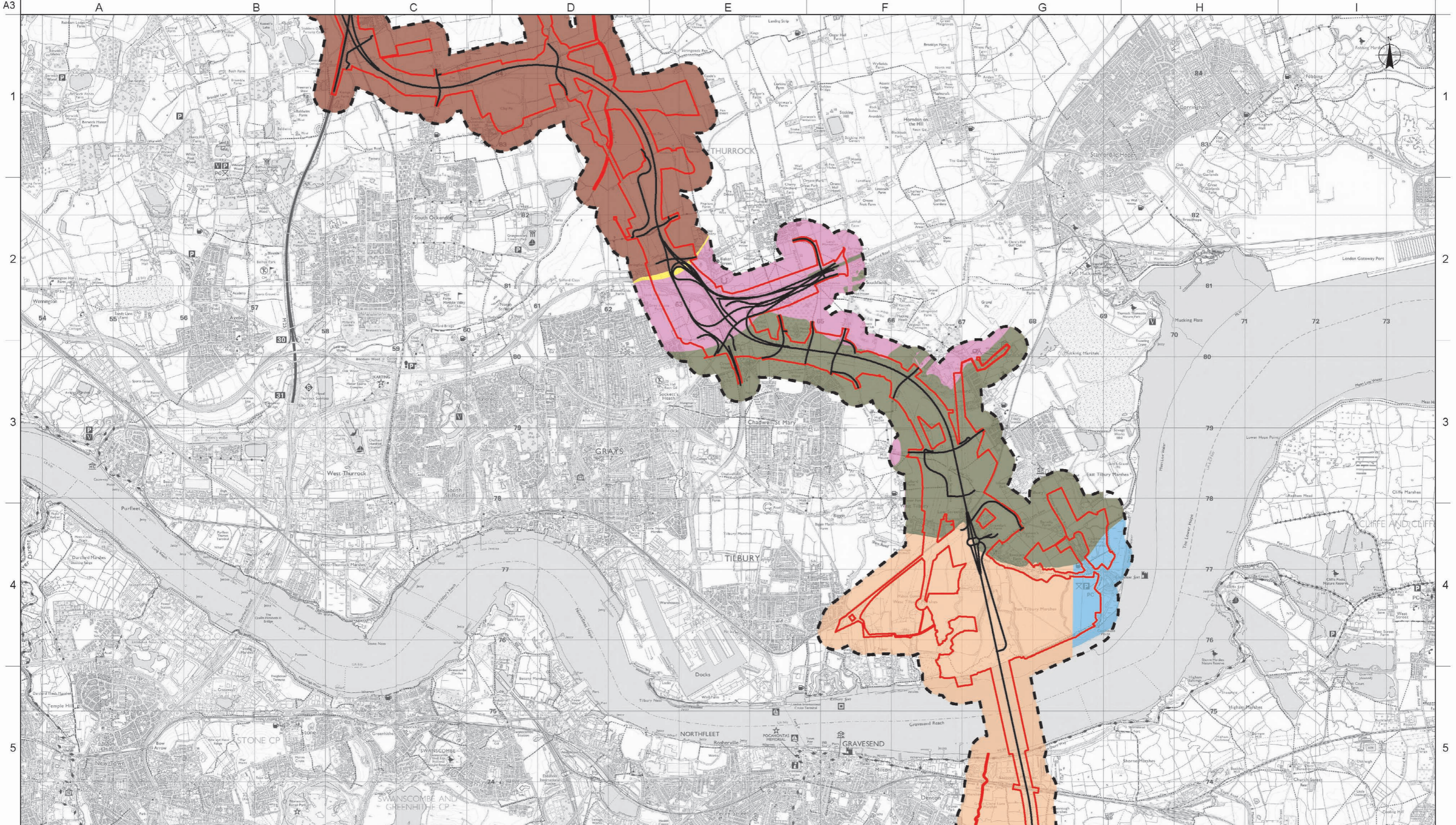


- Legend**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - Bagshot Formation
 - Claygate Member
 - Harwich Formation
 - Lambeth Group
 - Lenham Formation
 - Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
 - London Clay Formation
 - Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
 - Thanet Formation

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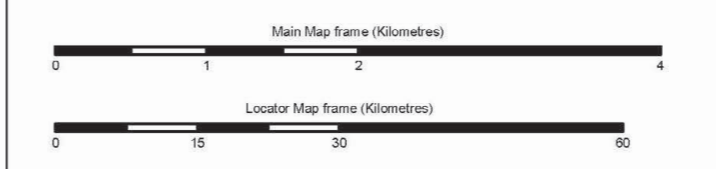


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Drawing Title Figure 11.2 - Bedrock Composition Sheet 1 of 3	Suitability For Information	Status S2
		Revision P01
Drawing Number HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40011		



Legend	
LTC Route Alignment	Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
Development Boundary	London Clay Formation
250m Study Area	Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
Bagshot Formation	Thanet Formation
Claygate Member	
Harwich Formation	
Lambeth Group	
Lenham Formation	

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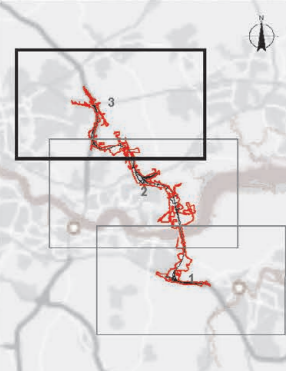
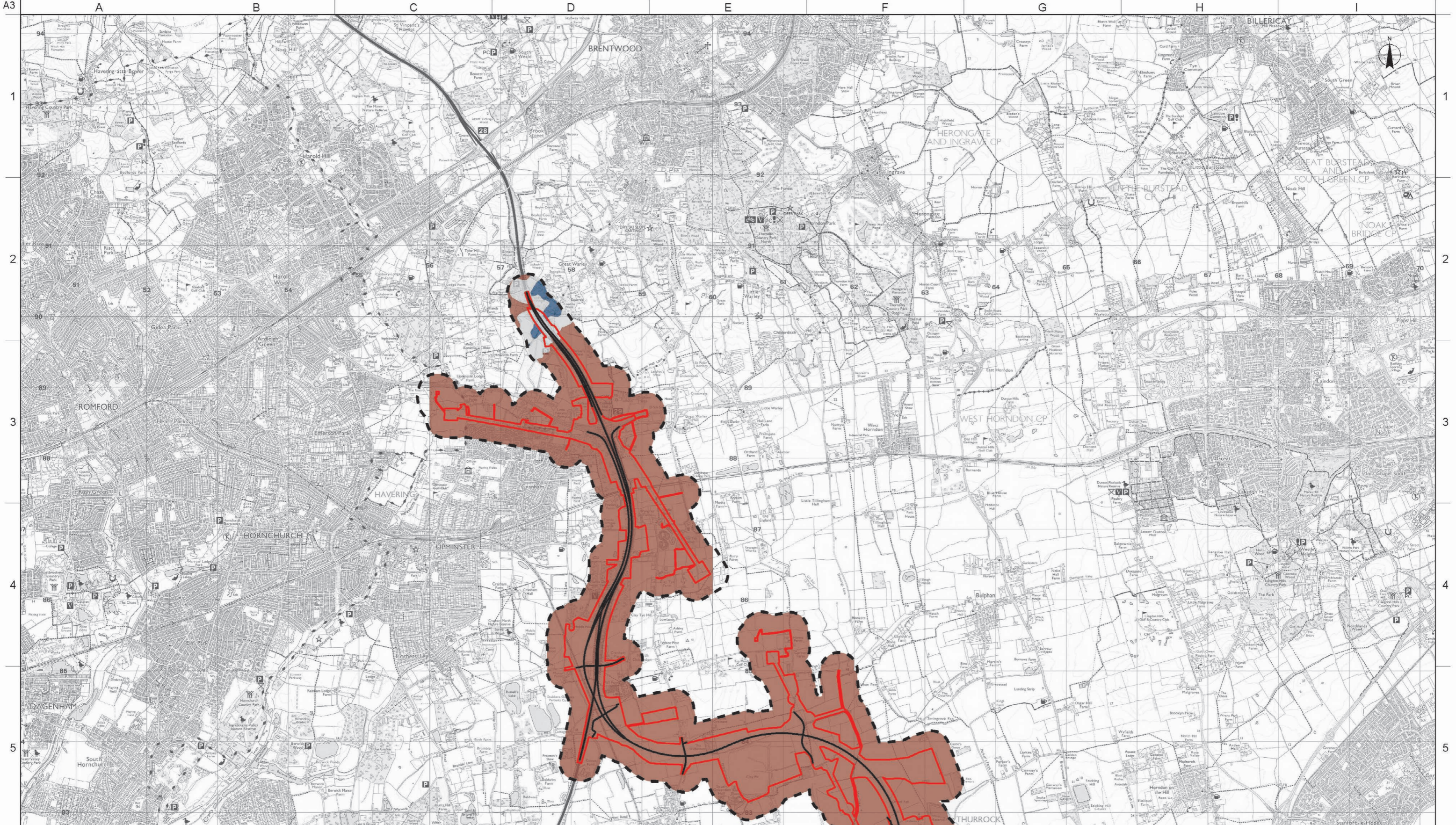
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Sheet 2 of 3**

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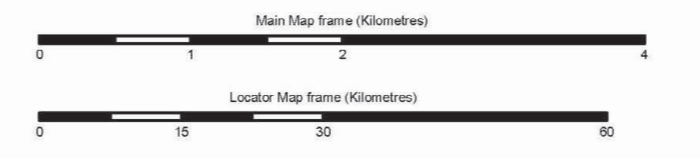
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For Information	S2	P01

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Legend	
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	Development Boundary
	250m Study Area
	Bagshot Formation
	Claygate Member
	Harwich Formation
	Lambeth Group
	Lenham Formation
	Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
	London Clay Formation
	Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)
	Thanet Formation

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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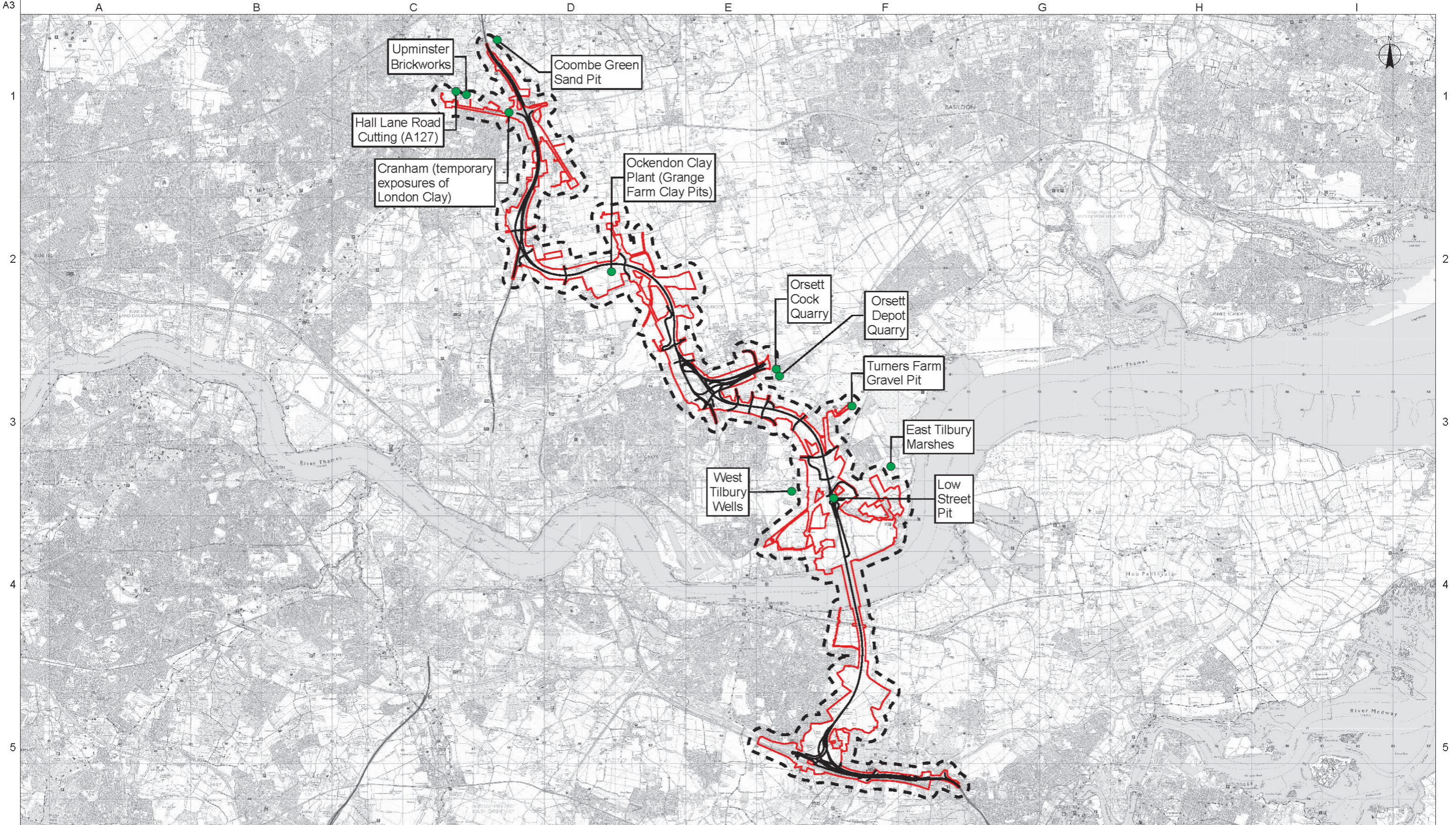
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Sheet 3 of 3**

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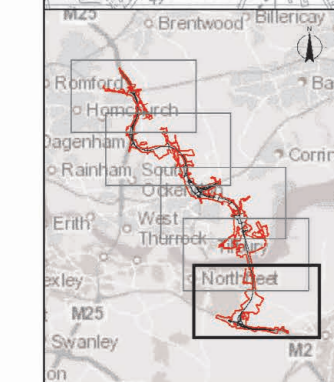
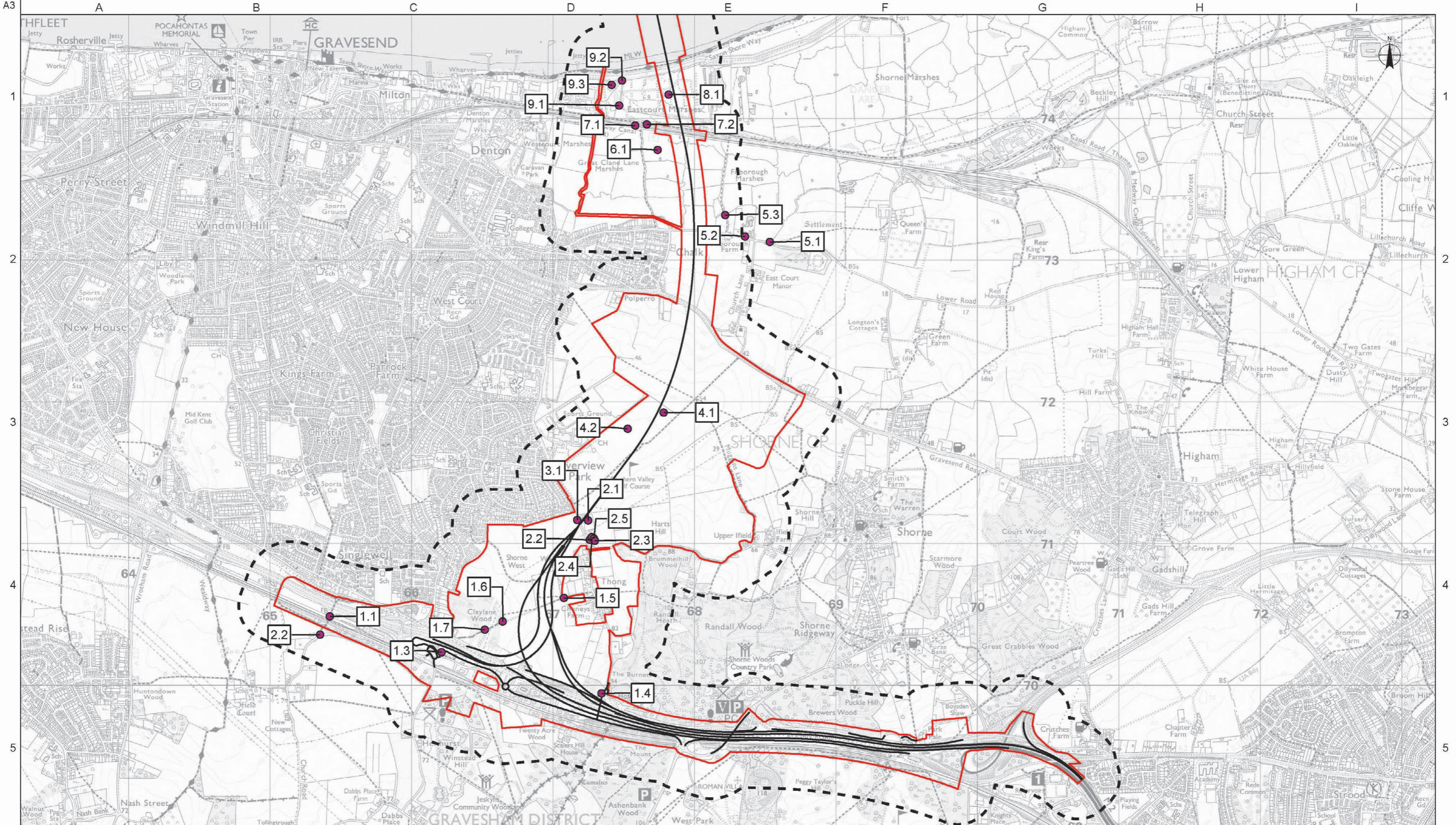


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 - 250m Study Area
 - Local Geological Sites

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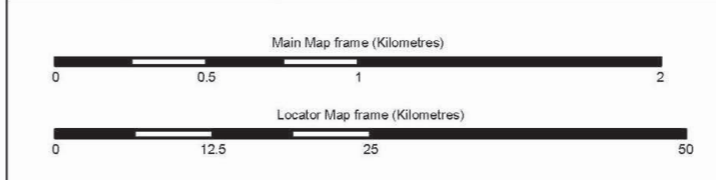
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		Revision P01	Drawing Number HE540039-CJV-EGT-SZP_EGNE00000000-DR-LE-40010



Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Site ID

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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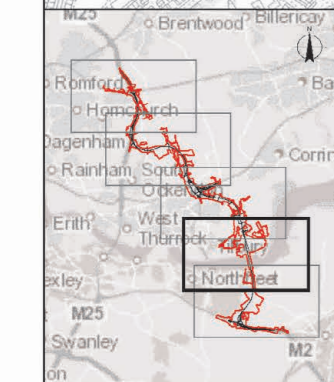
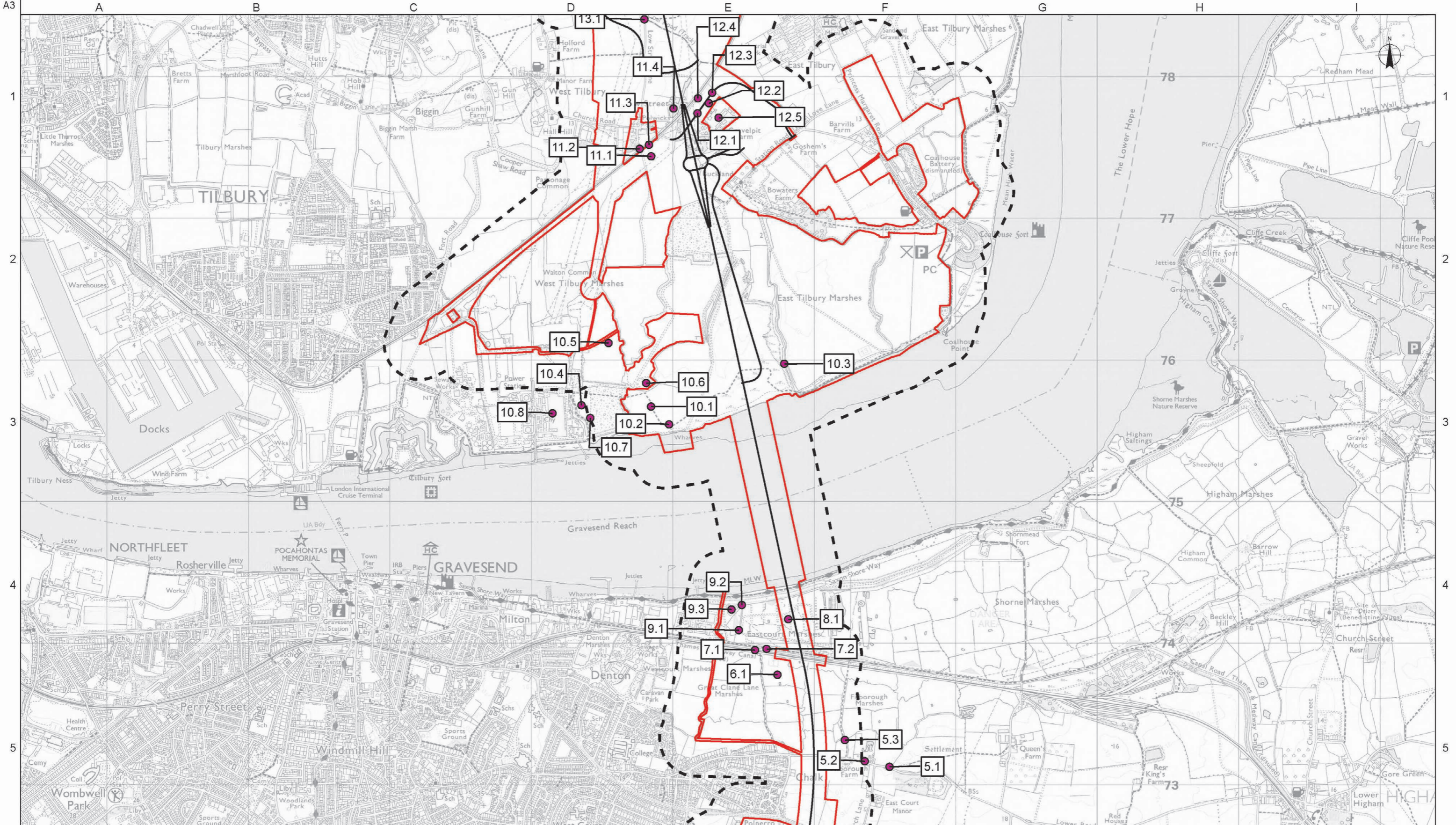
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Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Site ID

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

Drawing Title: **Figure 11.4 - Site Walkover Sheet 2 of 5**

Suitability: **For Information** | Status: **S2** | Revision: **P01**

Drawing Number: HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40043

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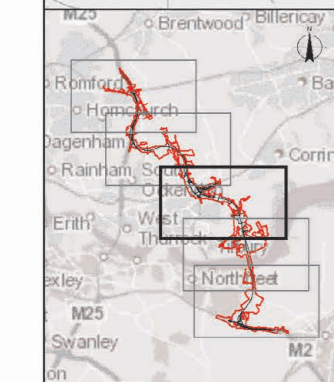
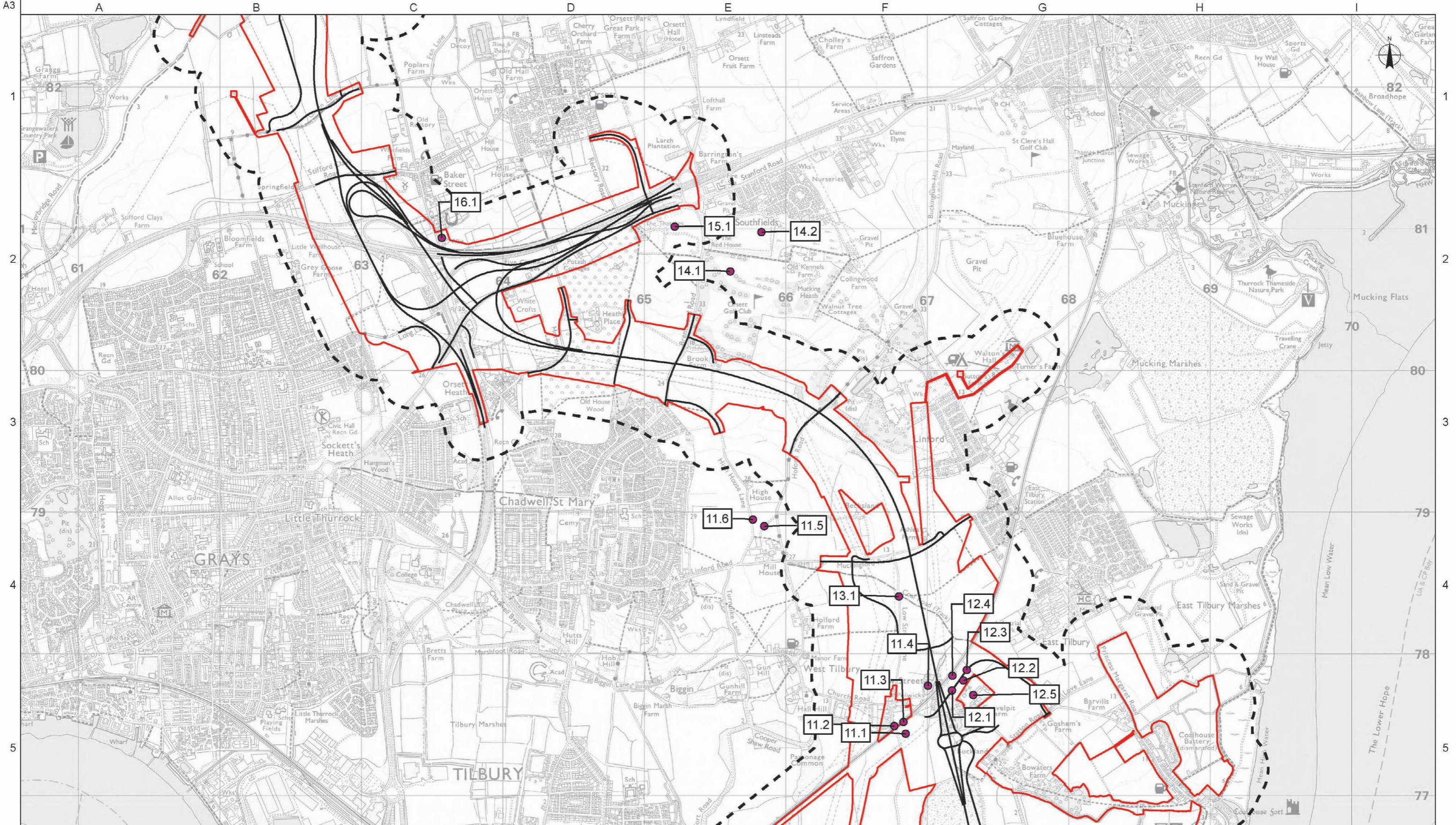
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Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Site ID

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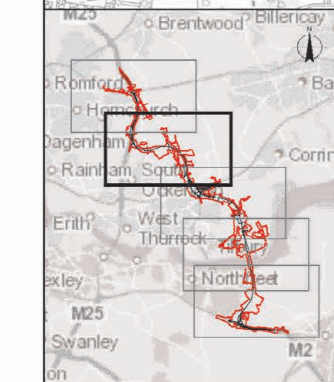
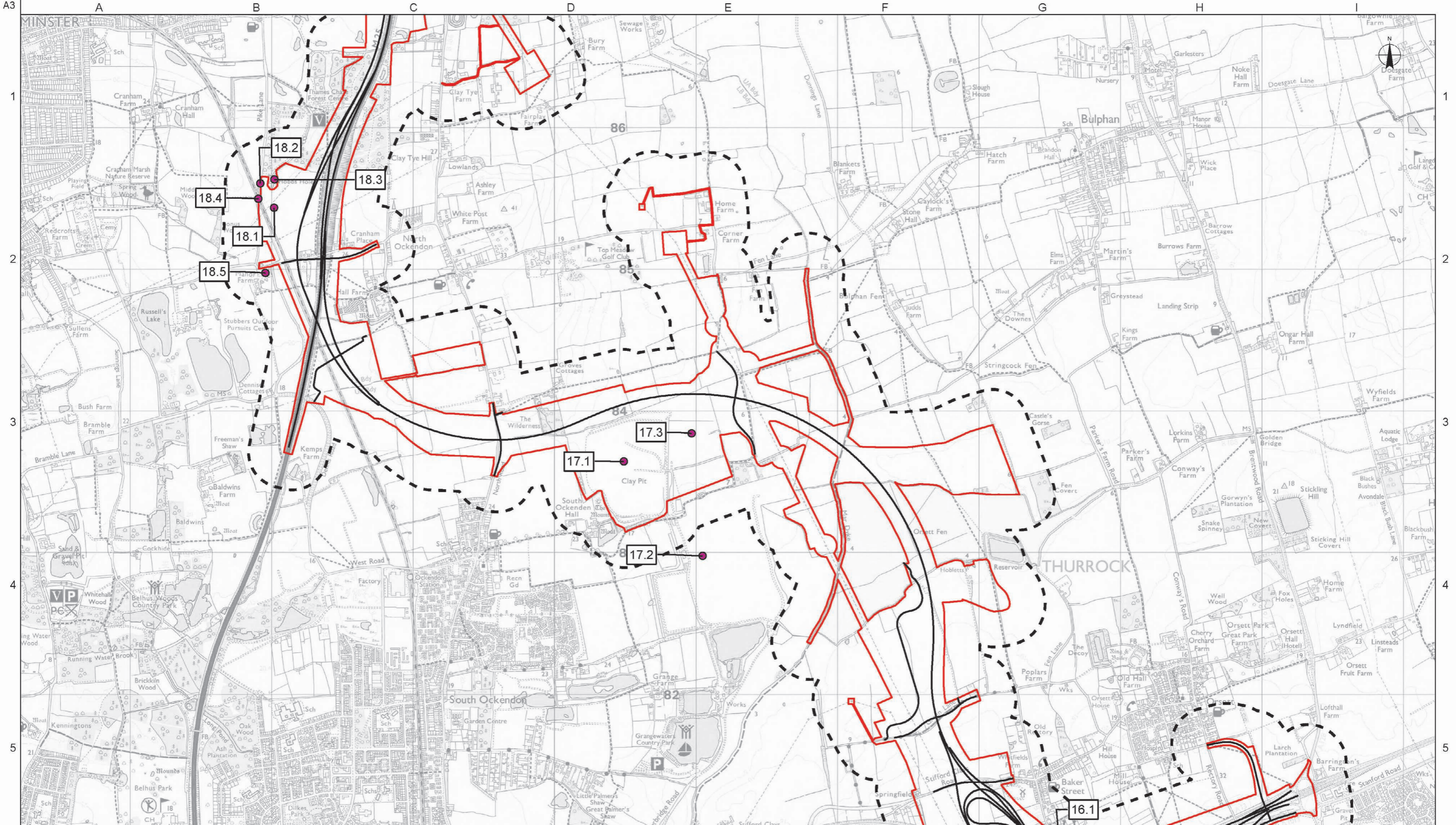
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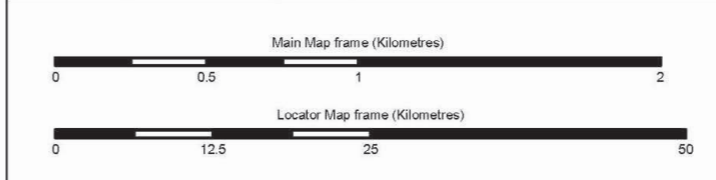
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- Legend:**
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 - Development Boundary
 - 250m Study Area
 - Site ID

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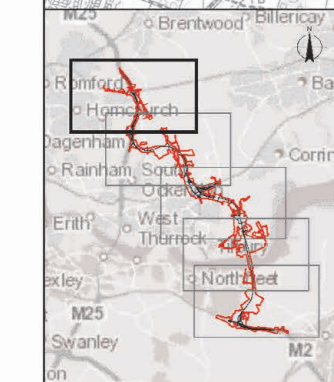
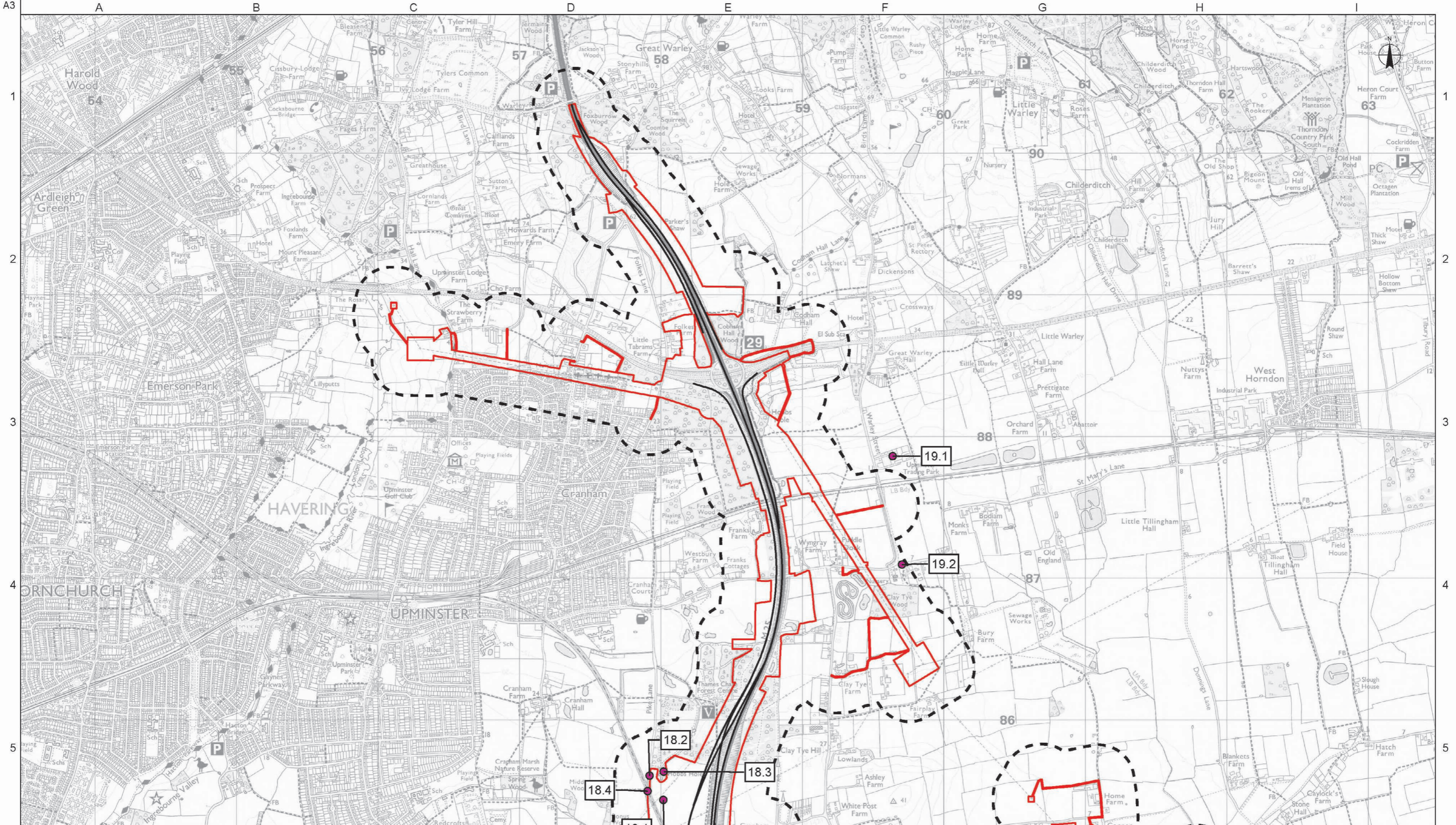
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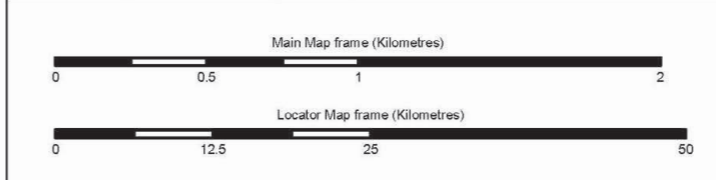
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Legend:

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- Development Boundary
- 250m Study Area
- Site ID

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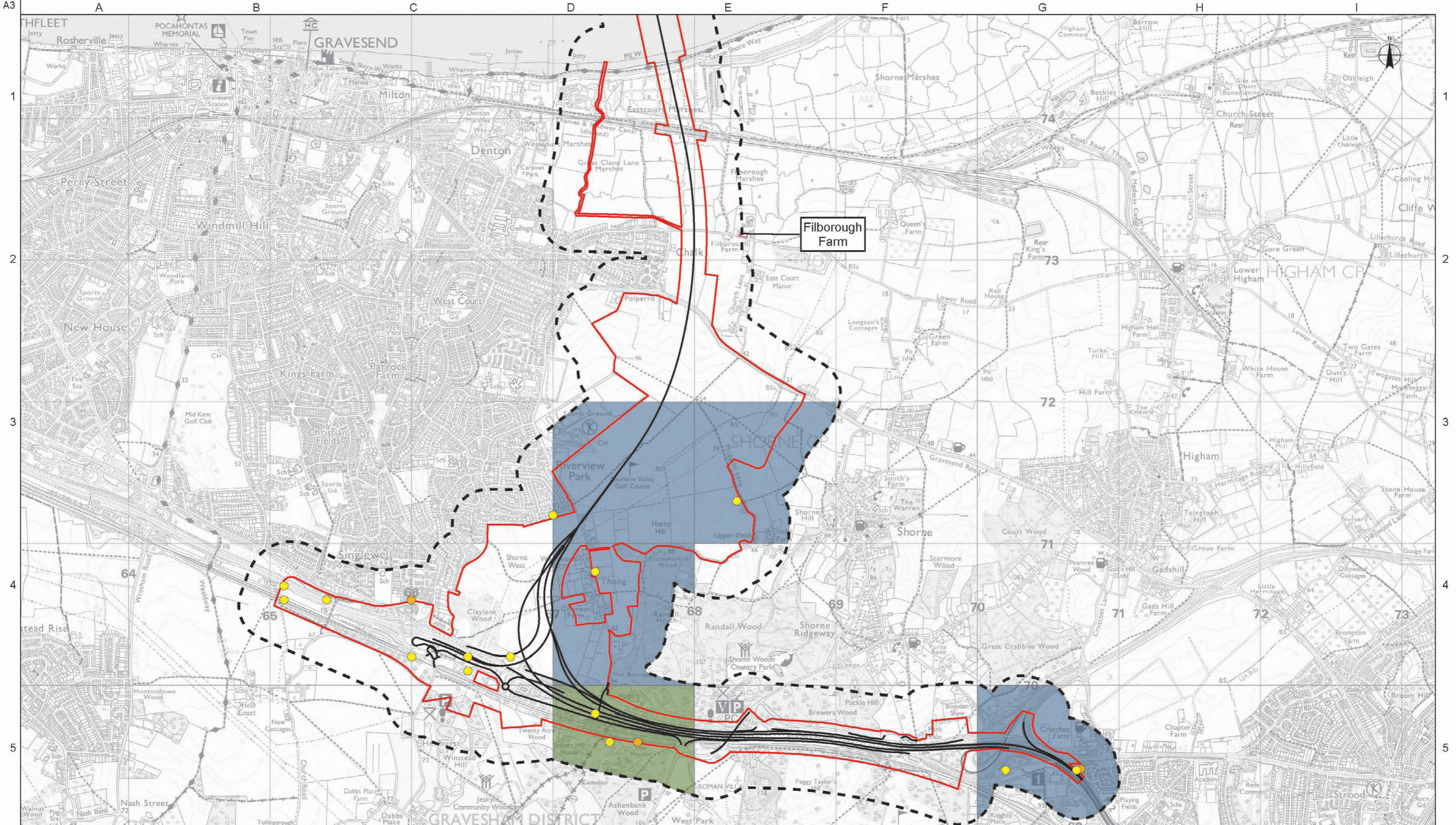
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Sheet 5 of 5**

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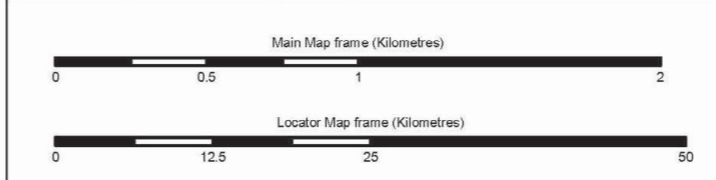
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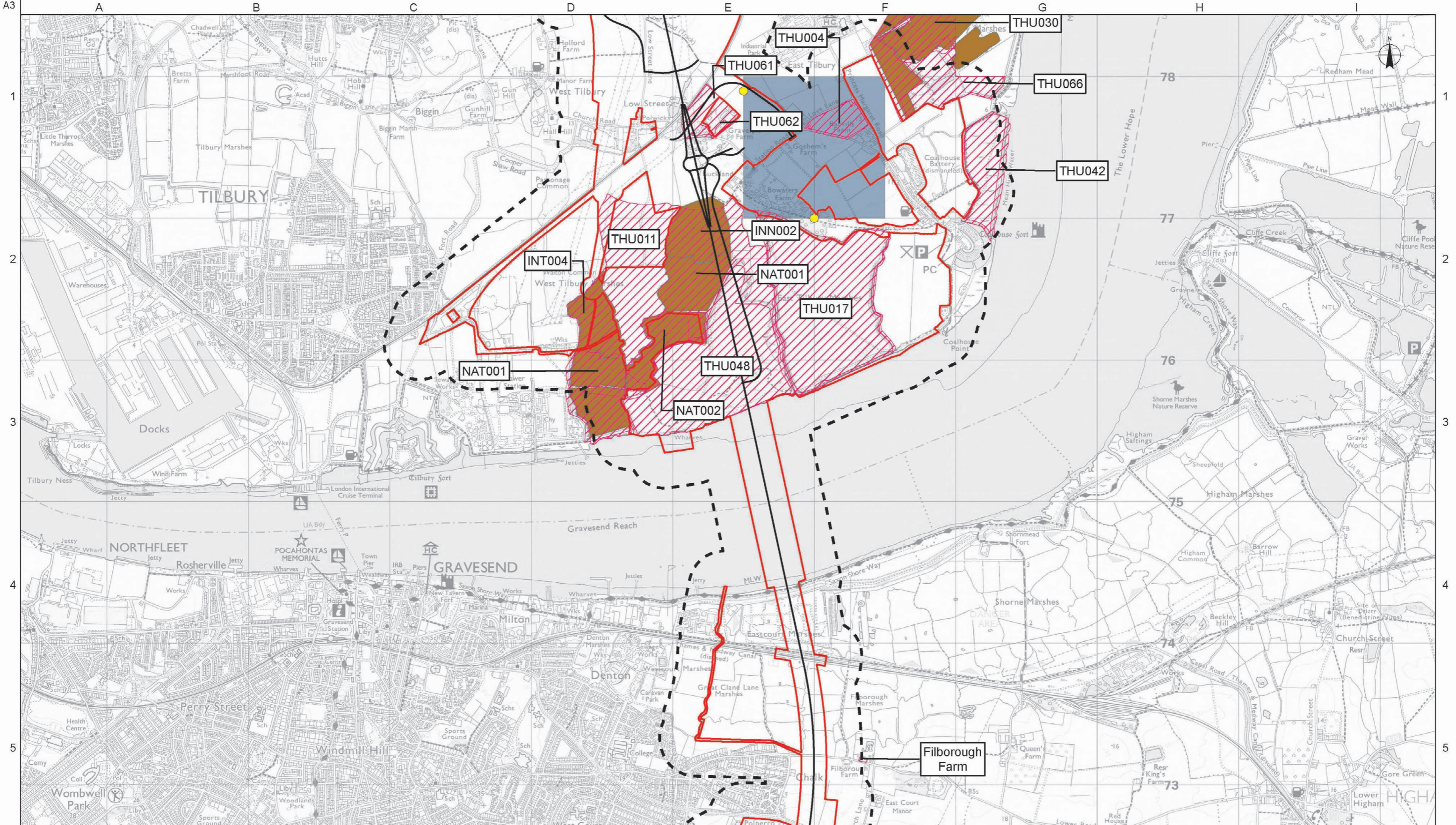
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- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Man Made Mining Cavities
- Natural Cavities
- Historic Landfill Sites
- Authorised Landfill Sites
- Conclusive Coal Mining (only available as 1km tiles)
- Conclusive Rock Mining (only available as 1km tiles)
- Inconclusive Rock Mining (only available as 1km tiles)

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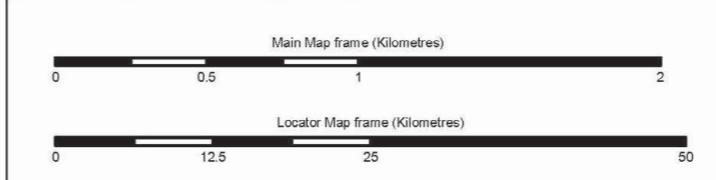
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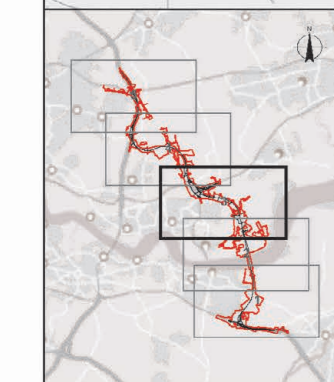
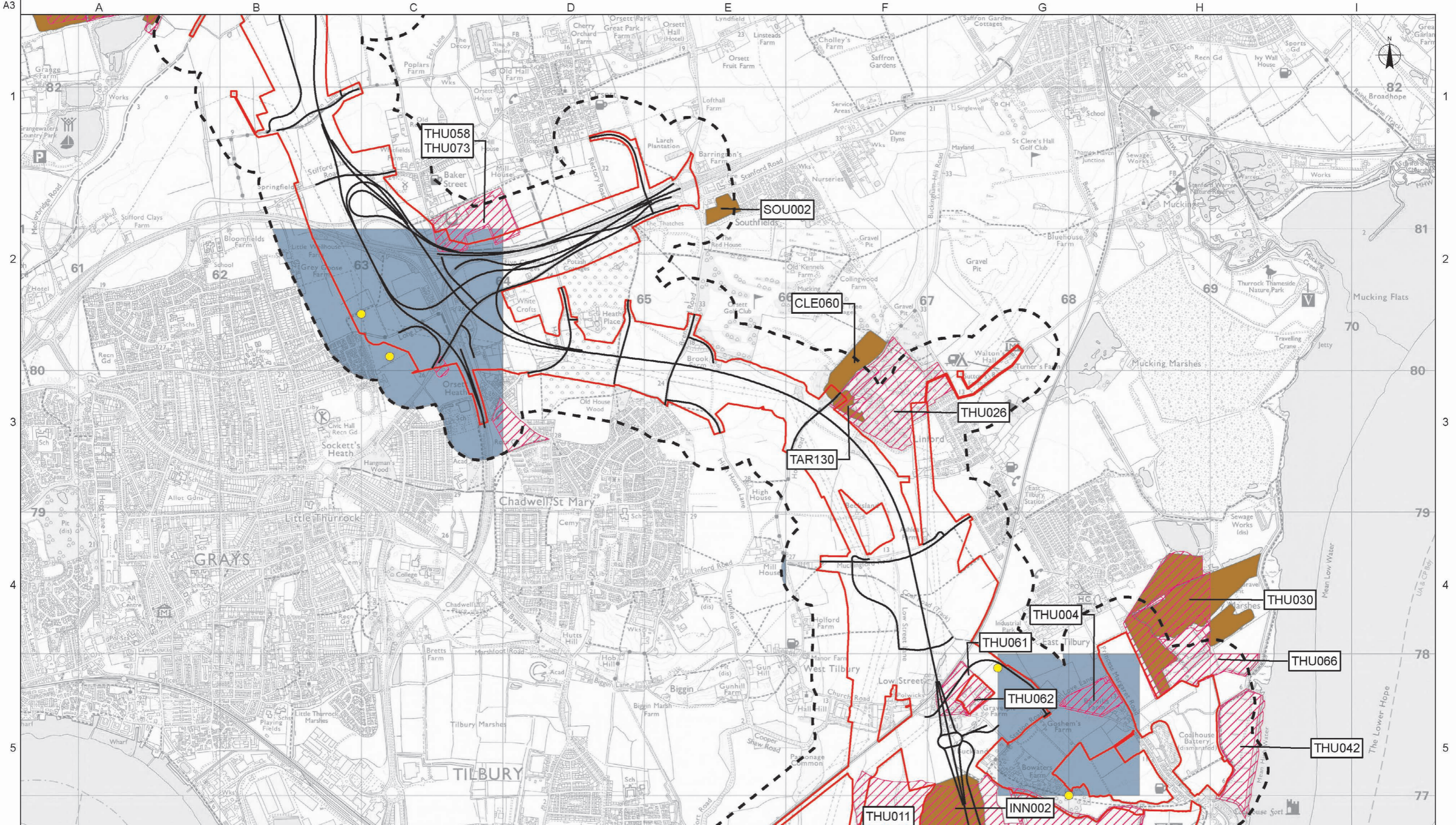
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- Natural Cavities
- Historic Landfill Sites
- Authorised Landfill Sites
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- Conclusive Rock Mining (only available as 1km tiles)
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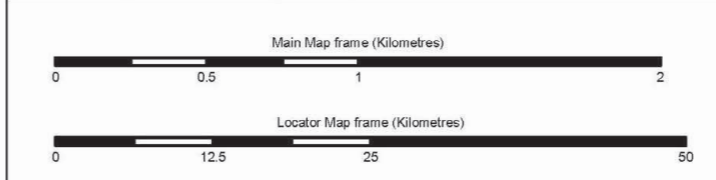
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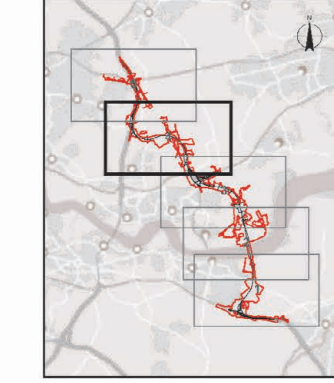
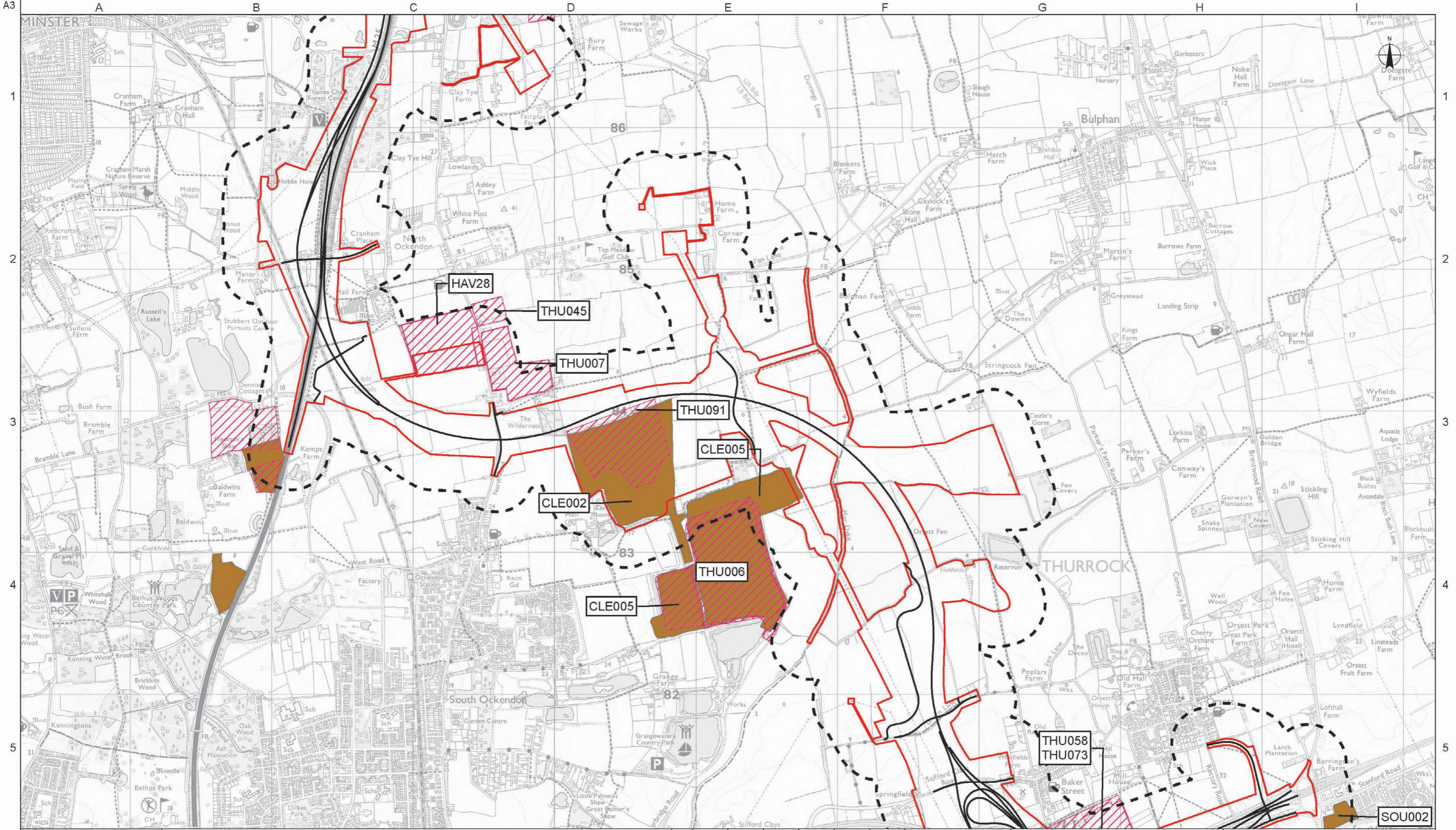
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- 250m Study Area
- Man Made Mining Cavities
- Natural Cavities
- Historic Landfill Sites
- Authorised Landfill Sites
- Conclusive Coal Mining (only available as 1km tiles)
- Conclusive Rock Mining (only available as 1km tiles)
- Inconclusive Rock Mining (only available as 1km tiles)

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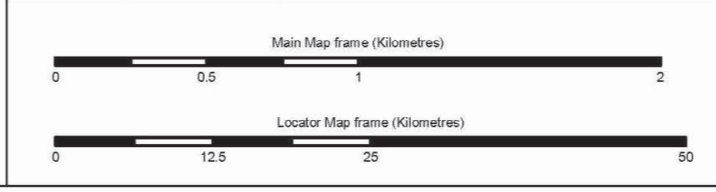
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Drawing Title Figure 11.5 - Location of Landfill Sites and Suspected Rock/Coal Mining Cavities Sheet 3 of 5	Suitability For Information	Status S2
Drawing Number HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40012		Revision P01



Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Man Made Mining Cavities
- Natural Cavities
- Historic Landfill Sites
- Authorised Landfill Sites
- Conclusive Coal Mining (only available as 1km tiles)
- Conclusive Rock Mining (only available as 1km tiles)
- Inconclusive Rock Mining (only available as 1km tiles)

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

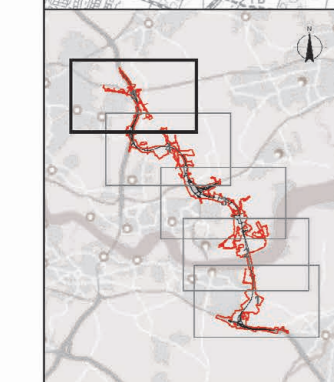
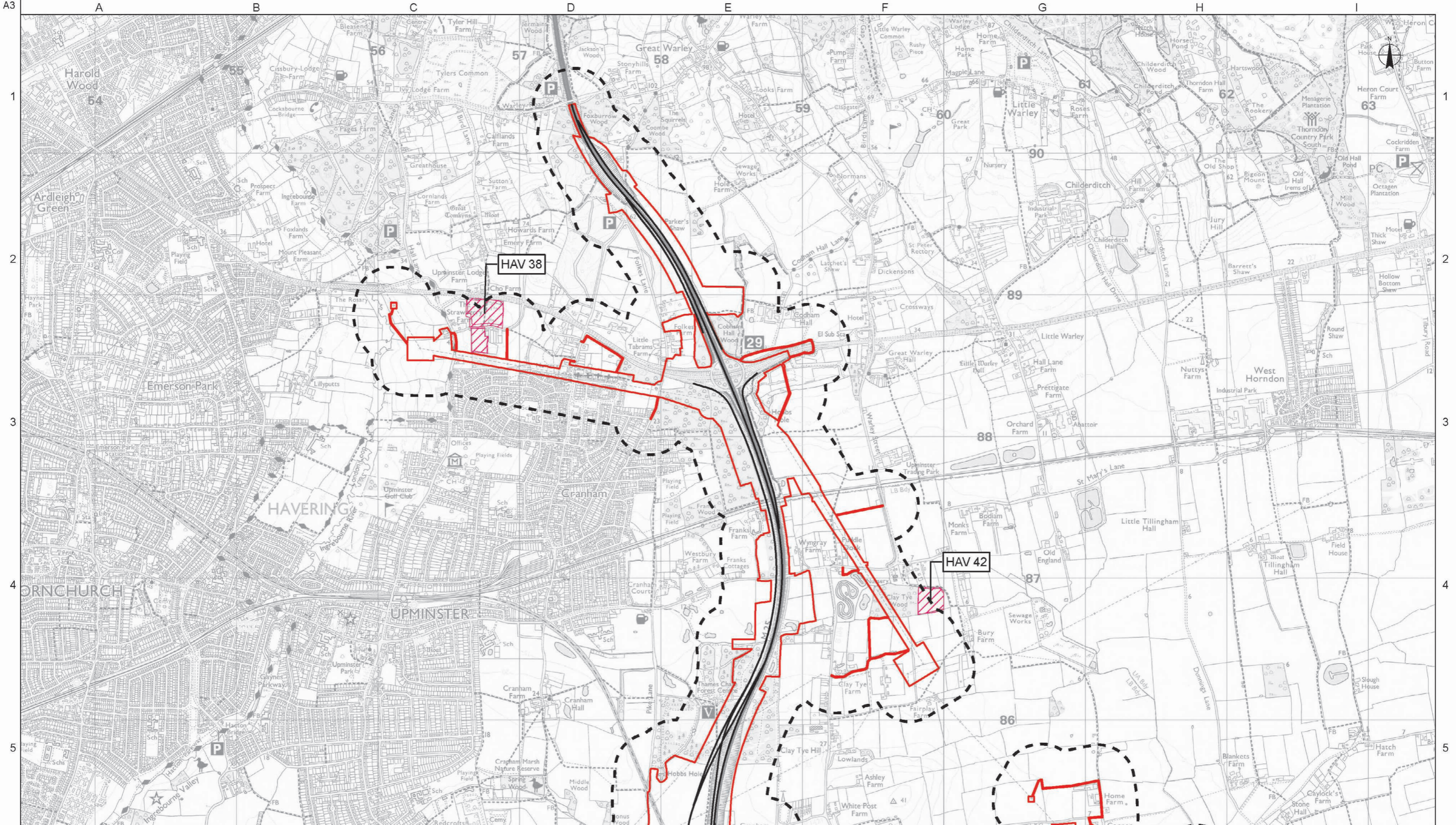


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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 11.5 - Location of Landfill Sites and Suspected Rock/Coal Mining Cavities Sheet 4 of 5

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Suitability	Status	Revision
For Information	S2	P01
Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40012	



Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

- Legend:**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - Man Made Mining Cavities
 - Natural Cavities
 - Historic Landfill Sites
 - Authorised Landfill Sites
 - Conclusive Coal Mining (only available as 1km tiles)
 - Conclusive Rock Mining (only available as 1km tiles)
 - Inconclusive Rock Mining (only available as 1km tiles)

Client			
Project Title		LOWER THAMES CROSSING STATUTORY CONSULTATION	
Drawing Title		Figure 11.5 - Location of Landfill Sites and Suspected Rock/Coal Mining Cavities Sheet 5 of 5	
Suitability	Status	Revision	
For Information	S2	P01	
Drawing Number		HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40012	

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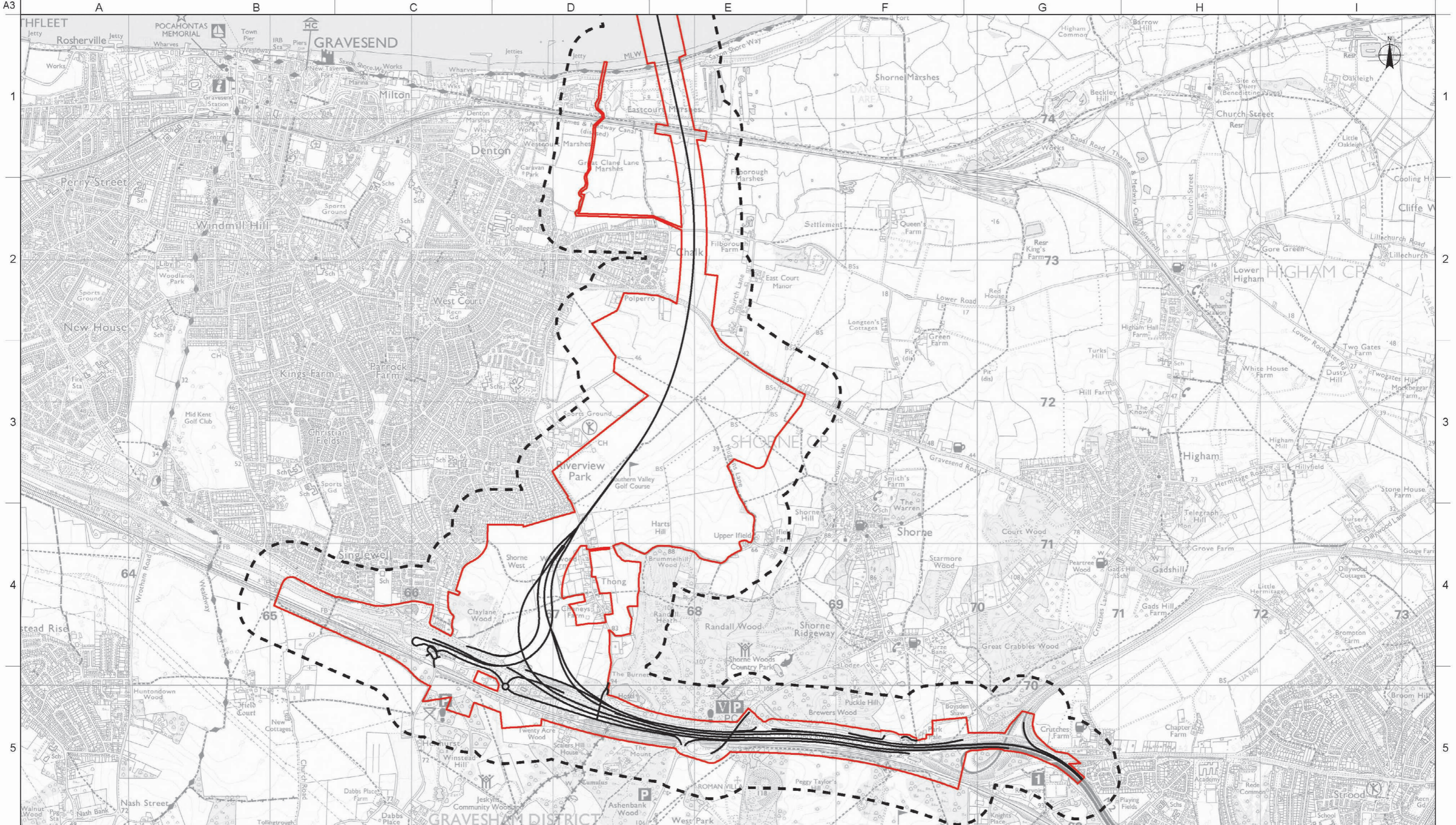
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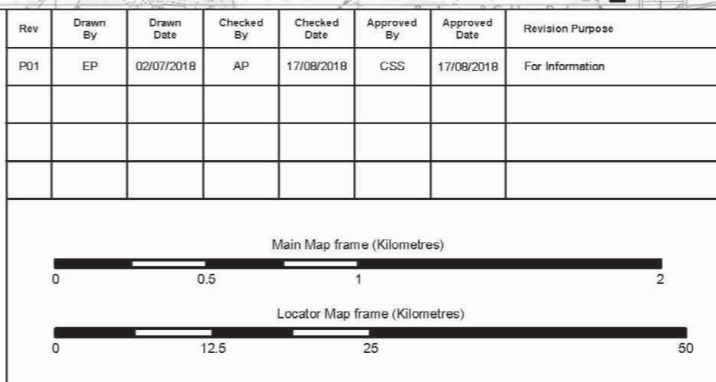
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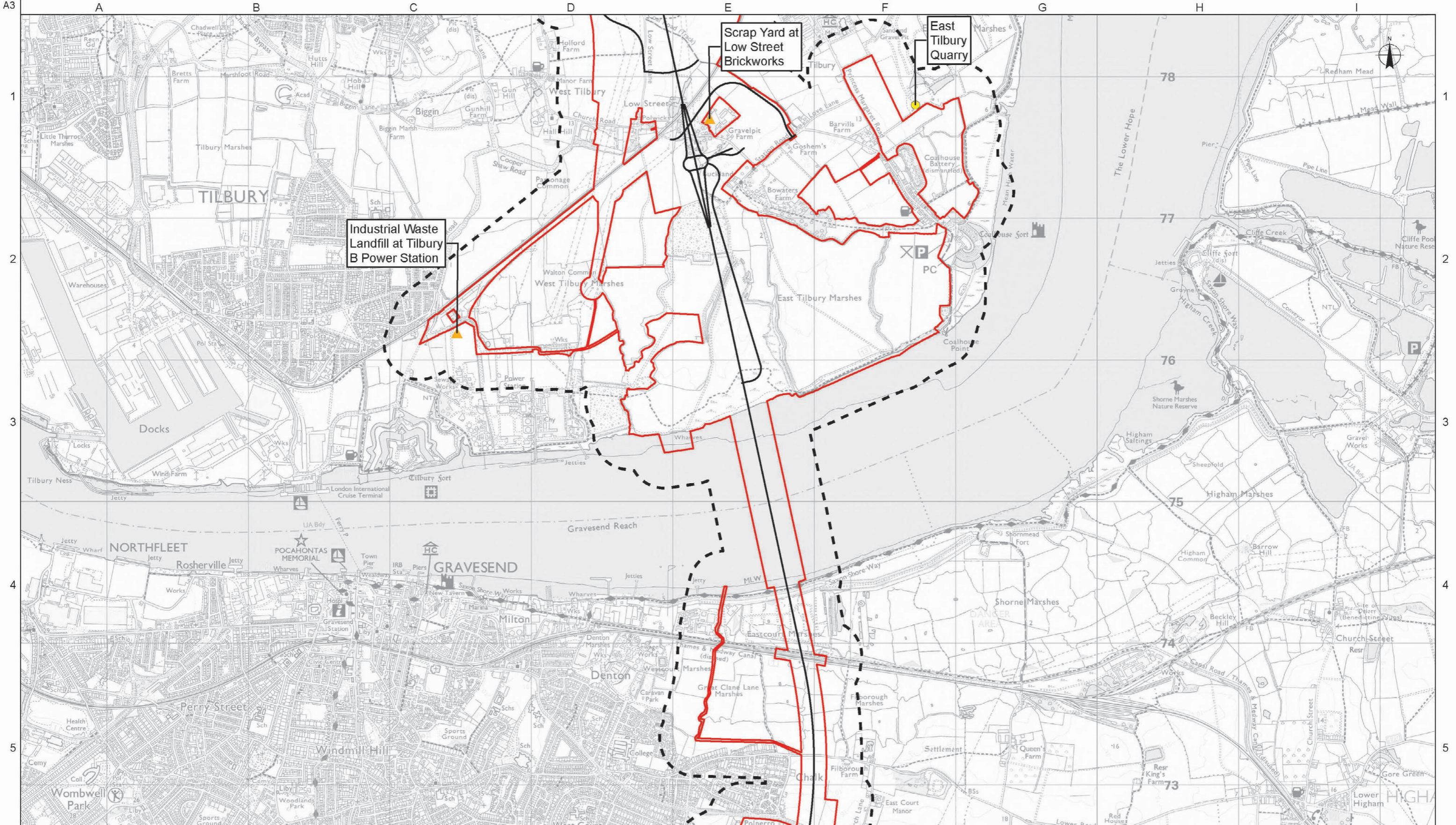


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P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

Client			
Project Title	LOWER THAMES CROSSING STATUTORY CONSULTATION		
Drawing Title	Figure 11.6 - Pollution Incidents Sheet 1 of 5		
Suitability	Status	Revision	
For Information	S2	P01	
Drawing Number			
HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40013			



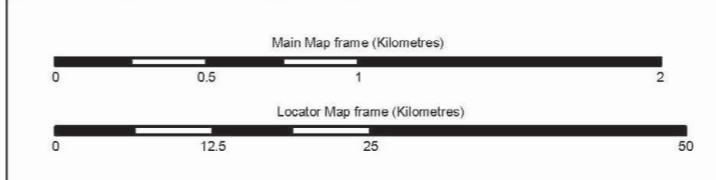
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Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Licensed Waste Management Facility (non-landfill)
- Prosecutions Relating to Authorised Processes
- Pollution Incidents – Category 2 (significant impacts to land only)

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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LOWER THAMES CROSSING STATUTORY CONSULTATION

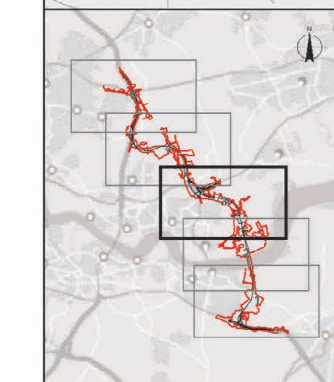
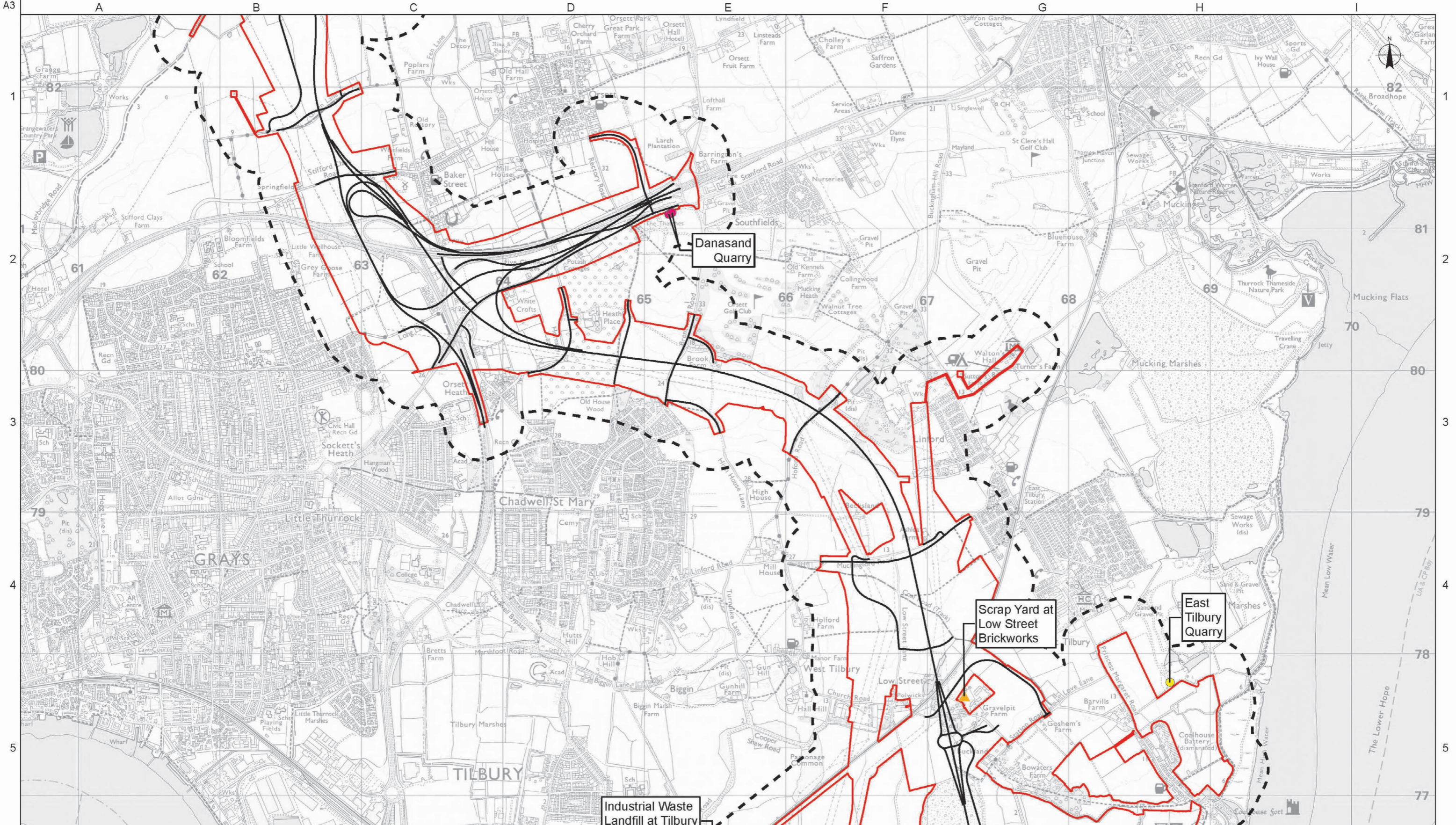
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Figure 11.6 - Pollution Incidents Sheet 2 of 6

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Suitability	Status	Revision
For Information	S2	P01

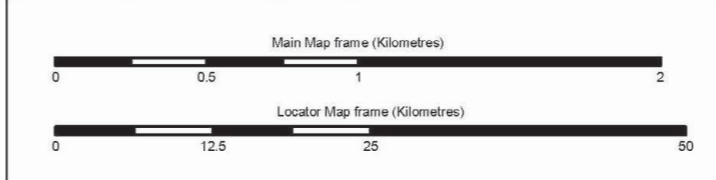
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Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- ▲ Licensed Waste Management Facility (non-landfill)
- Prosecutions Relating to Authorised Processes
- Pollution Incidents – Category 2 (significant impacts to land only)

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	GSS	17/08/2018	For Information



Client **highways england**

Project Title **LOWER THAMES CROSSING STATUTORY CONSULTATION**

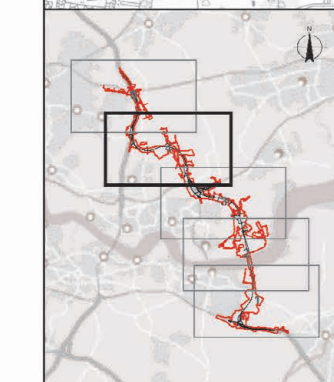
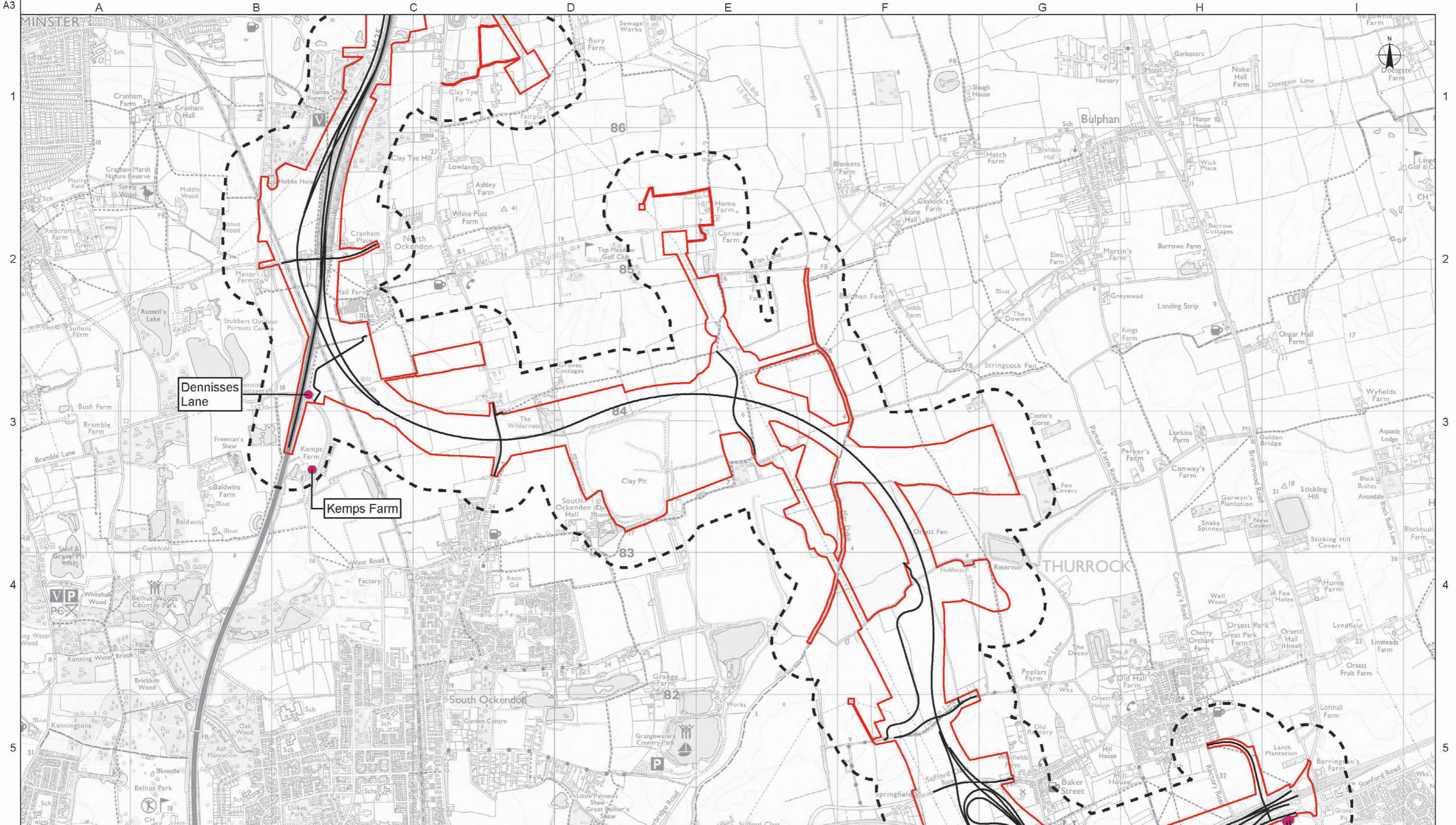
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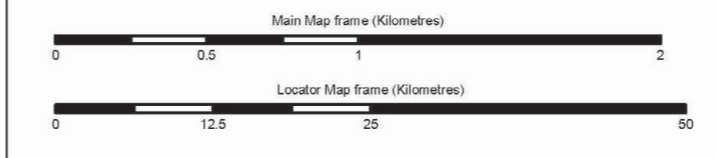
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For Information	S2	P01

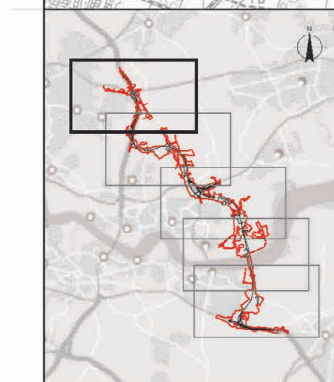
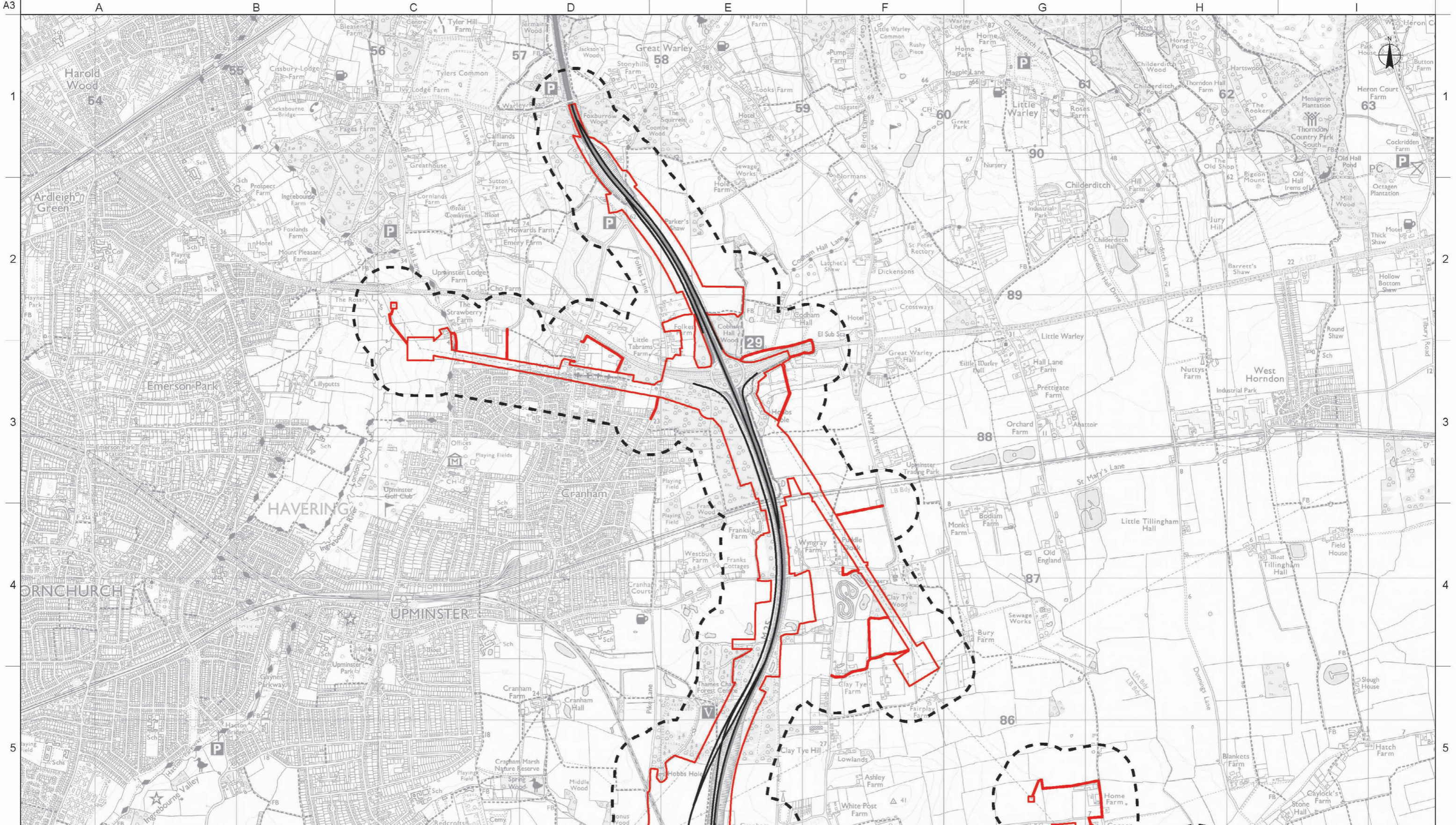
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Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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Drawing Title			Suitability	Status
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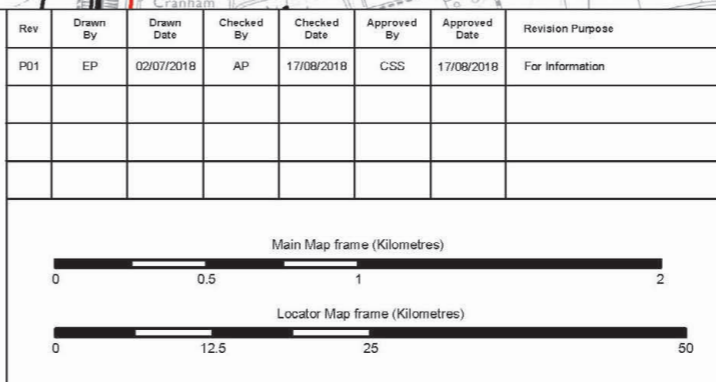




Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Licensed Waste Management Facility (non-landfill)
- Prosecutions Relating to Authorised Processes
- Pollution Incidents – Category 2 (significant impacts to land only)

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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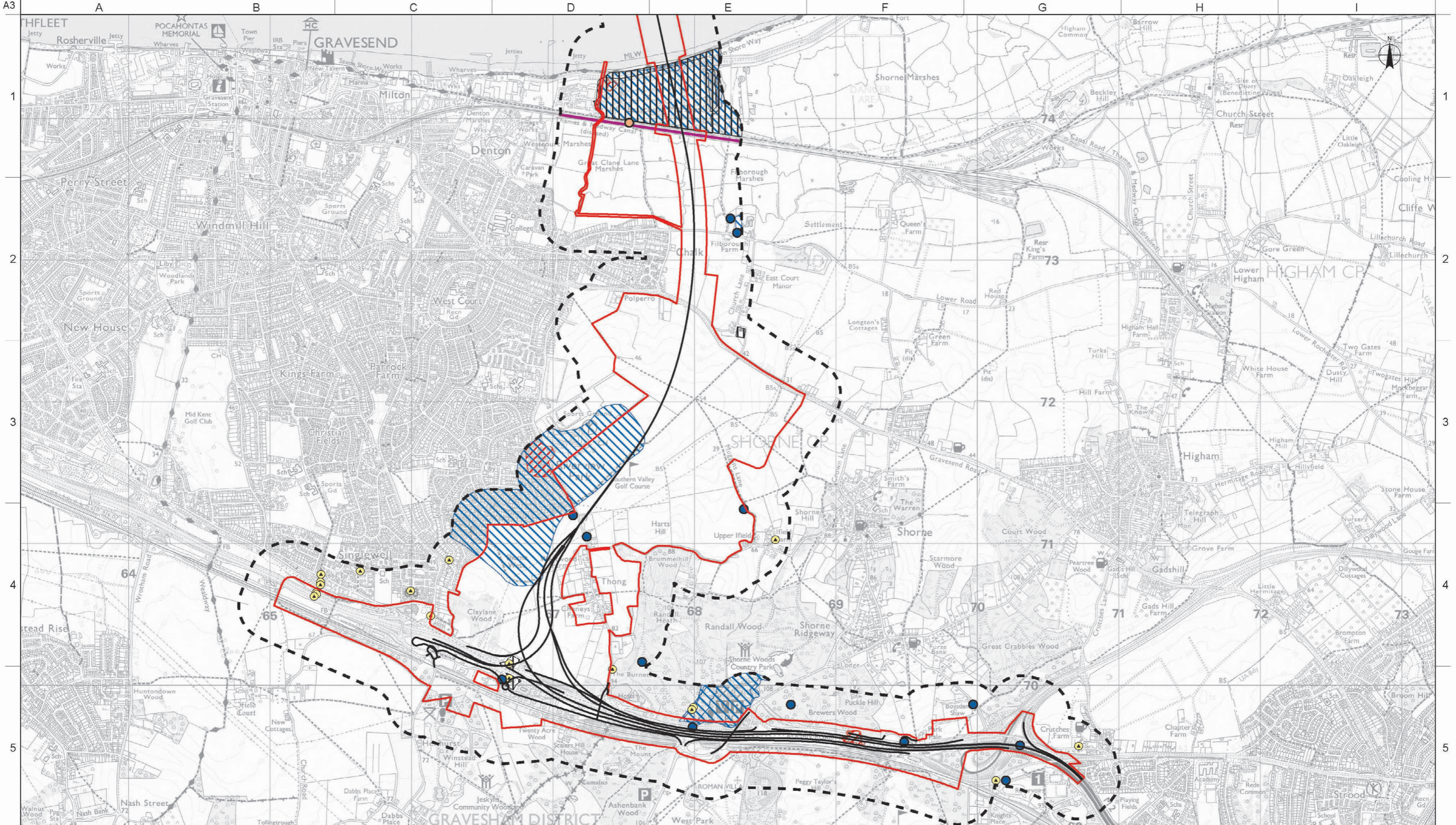


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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 11.6 - Pollution Incidents Sheet 5 of 6

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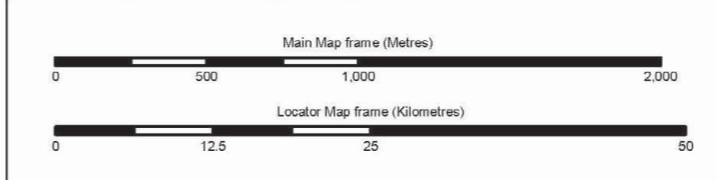
Legend

- LTC Route Alignment
- Development Area Boundary
- 250m Study Area
- Historical Tanks and Energy Facility
- Industrial
- Other
- Quarrying

Potentially Contaminative Land Use

- Mineral railway
- Railway
- Industrial
- Other
- Quarrying

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



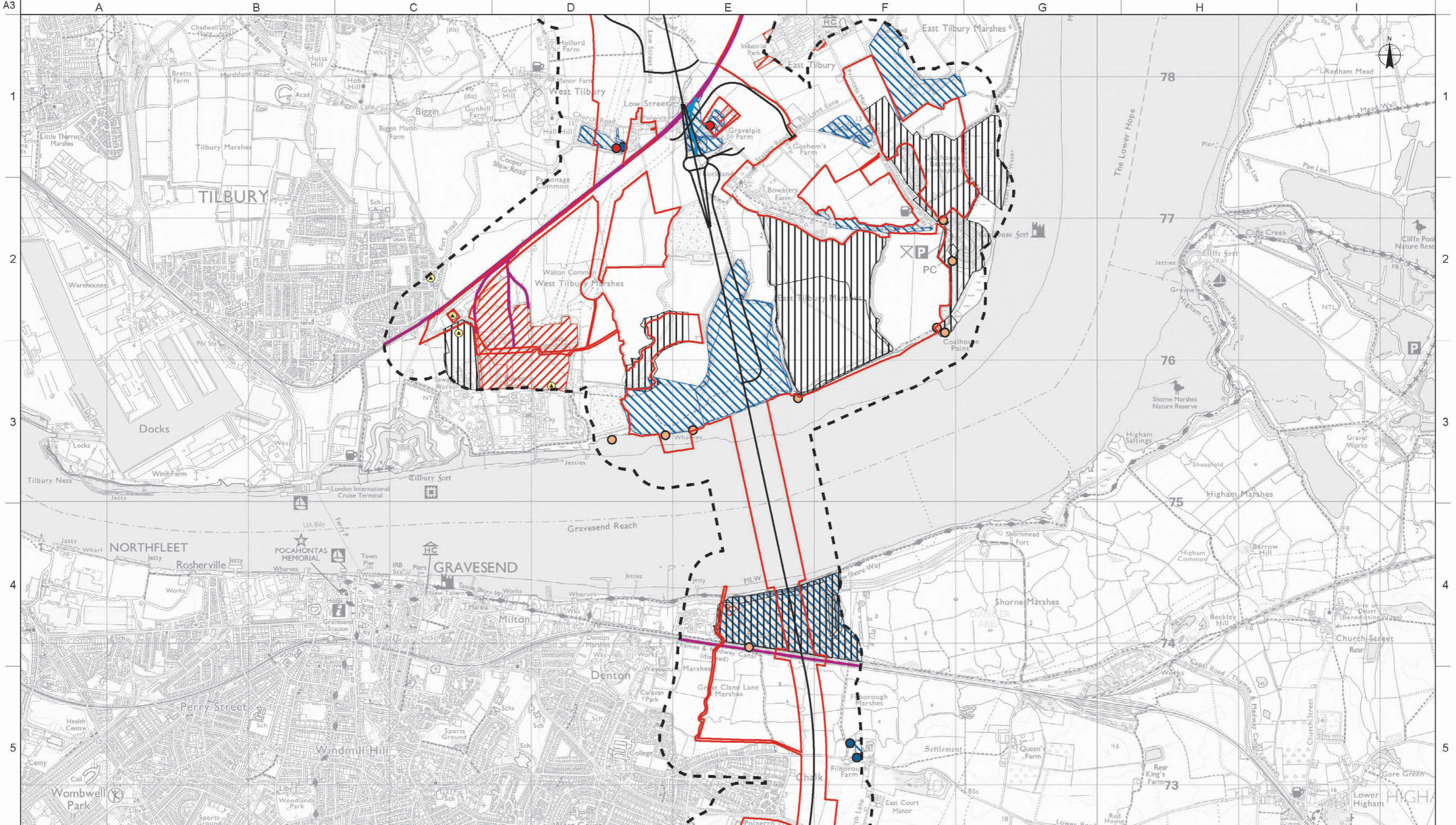
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Project Title **LOWER THAMES CROSSING STATUTORY CONSULTATION**

Drawing Title **Figure 11.7 - Historical Land Use Sheet 1 of 5**

Suitability	Status	Revision
For Information	S2	P01

Drawing Number: HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40014



Legend

- LTC Route Alignment
- Development Area Boundary
- 250m Study Area
- Historic Contaminated Land Use**
 - Historical Tanks and Energy Facility
 - Industrial
 - Other
 - Quarrying
- Potentially Contaminative Land Use**
 - Mineral railway
 - Railway
 - Industrial
 - Other
 - Quarrying

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

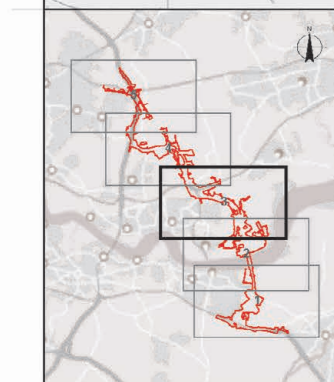
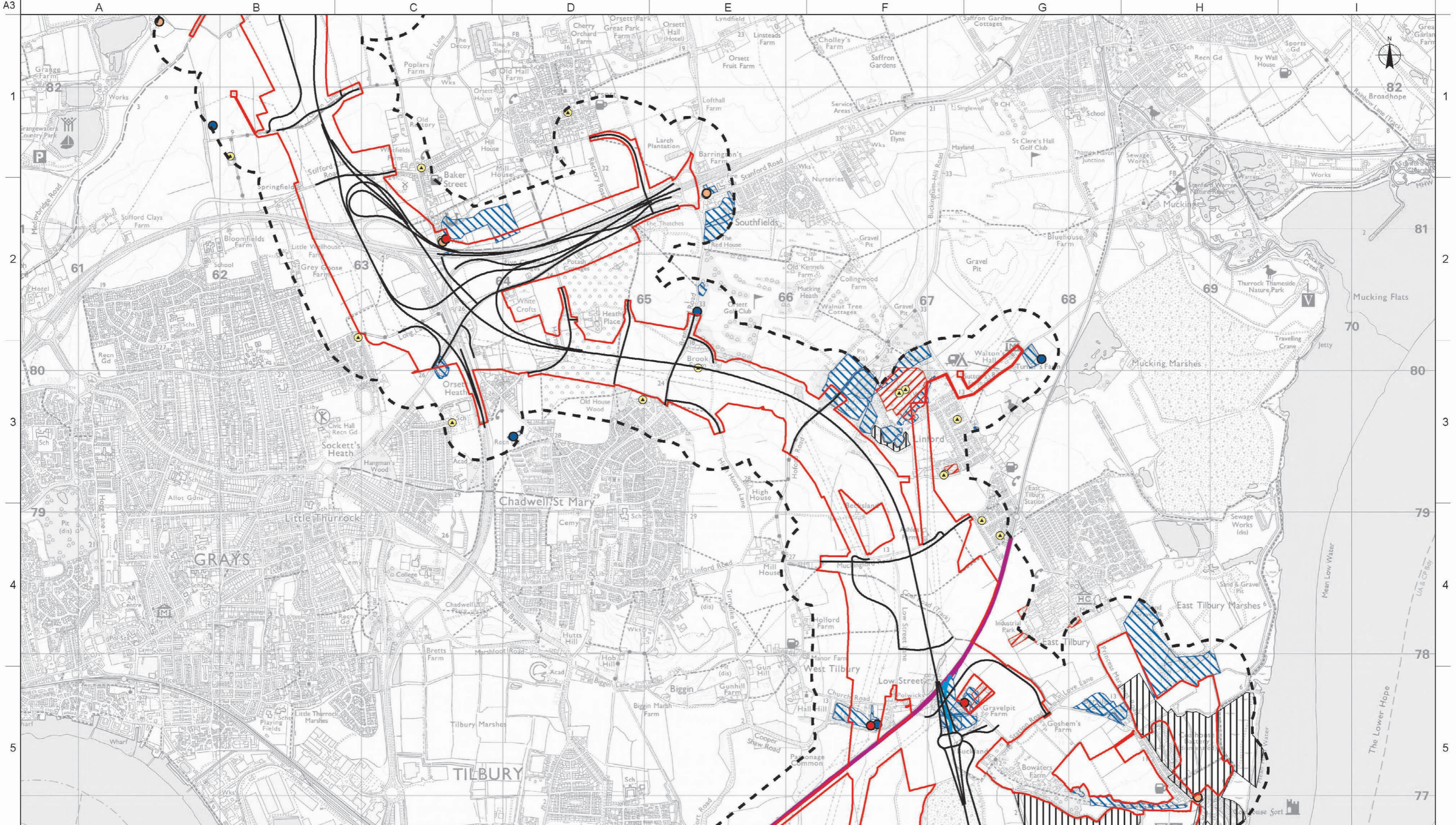
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Client

Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 11.7 - Historical Land Use Sheet 2 of 5

Scale at A3	Main Map frame 1:25,000	
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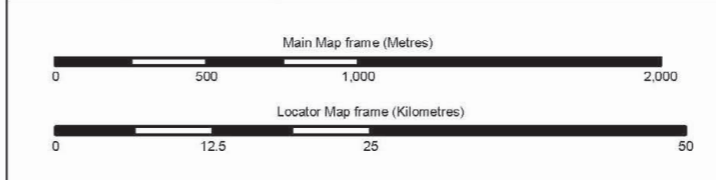
Legend

- LTC Route Alignment
- Development Area Boundary
- - - 250m Study Area
- Historical Tanks and Energy Facility
- Industrial
- Other
- Quarrying

Potentially Contaminative Land Use

- Mineral railway
- Railway
- Industrial
- Other
- Quarrying

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



Client: **highways england**

Project Title: **LOWER THAMES CROSSING STATUTORY CONSULTATION**

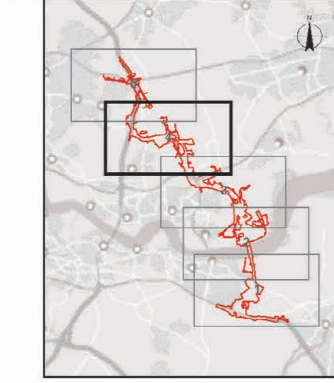
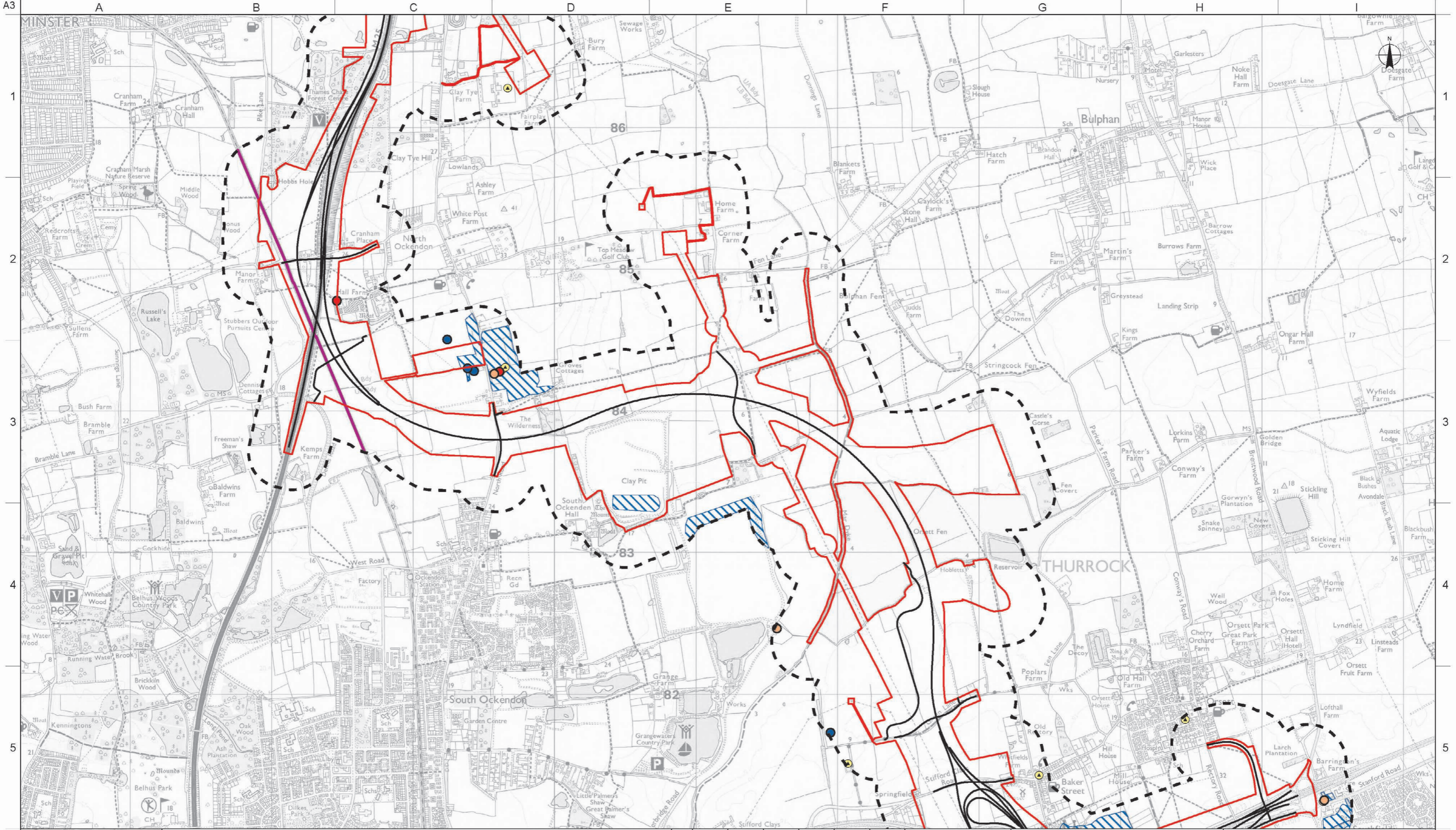
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Suitability	Status	Revision
For Information	S2	P01

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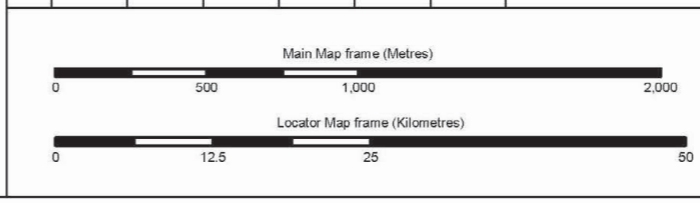
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- Legend**
- LTC Route Alignment
 - ▭ Development Area Boundary
 - - - 250m Study Area
 - Historical Tanks and Energy Facility
 - Industrial
 - Other
 - Quarrying

- Potentially Contaminative Land Use**
- Mineral railway
 - Railway
 - ▨ Industrial
 - ▨ Other
 - ▨ Quarrying

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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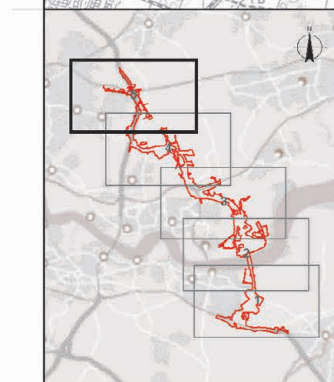
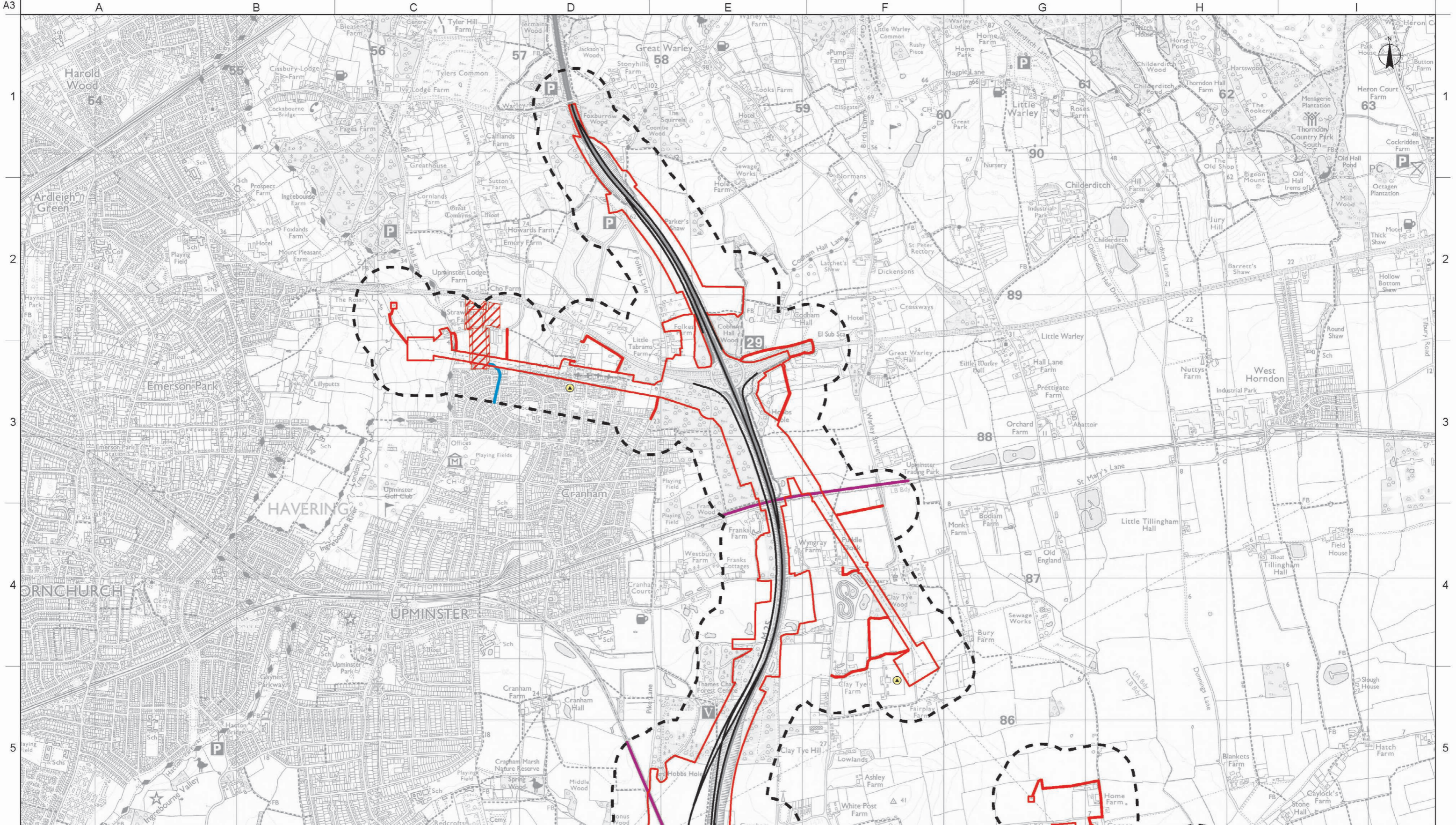


Client **highways england**

Project Title **LOWER THAMES CROSSING STATUTORY CONSULTATION**

Drawing Title **Figure 11.7 - Historical Land Use Sheet 4 of 5**

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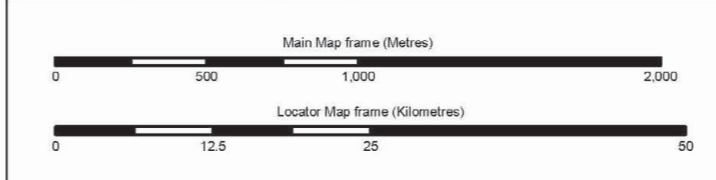
Legend

- LTC Route Alignment
- Development Area Boundary
- 250m Study Area
- Historical Tanks and Energy Facility
- Industrial
- Other
- Quarrying

Potentially Contaminative Land Use

- Mineral railway
- Railway
- Industrial
- Other
- Quarrying

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



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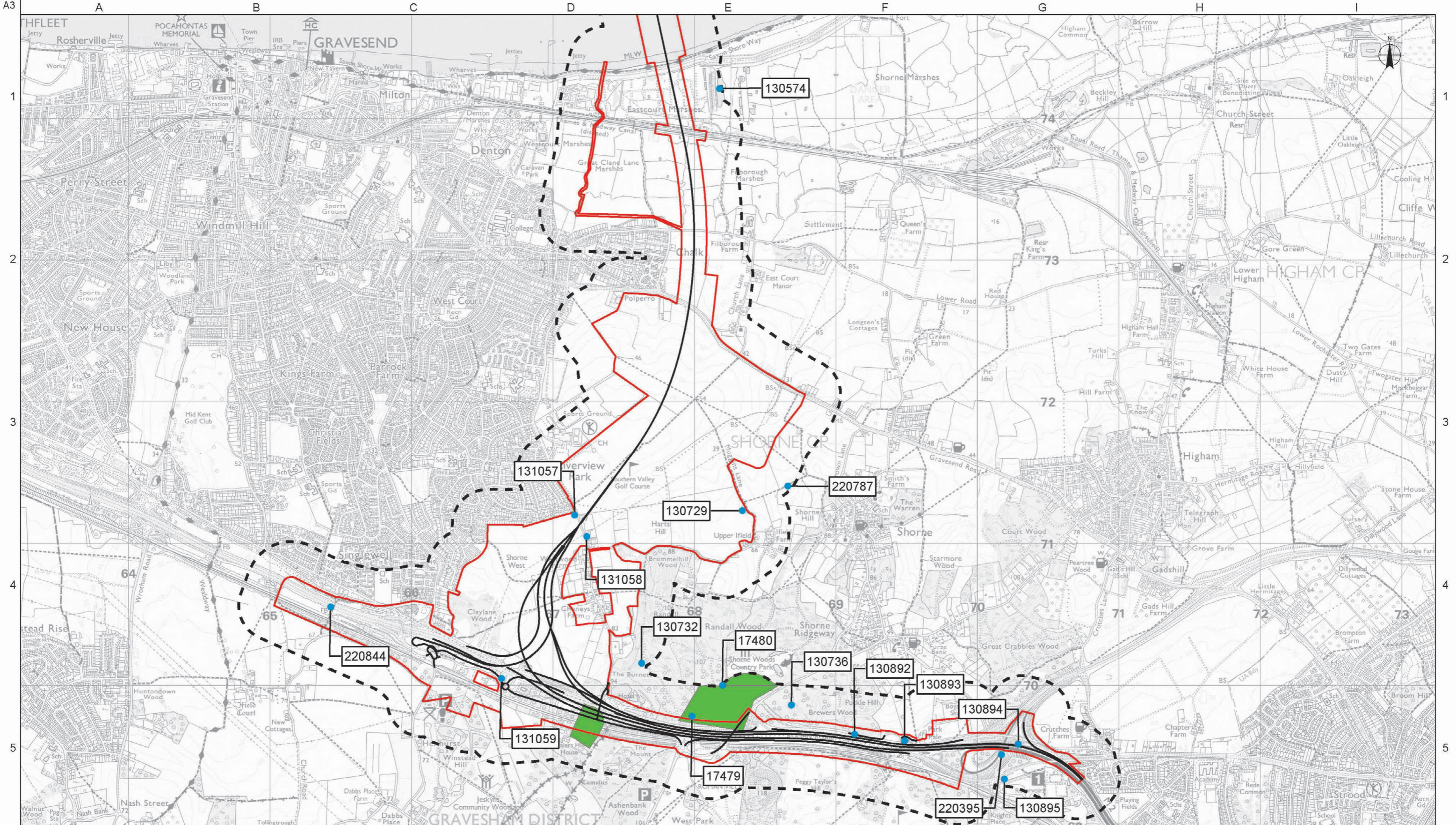
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Project Title
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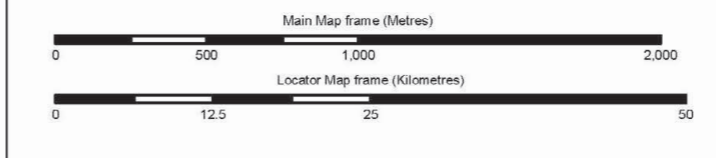
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Figure 11.7 - Historical Land Use Sheet 5 of 5	For Information	S2	P01

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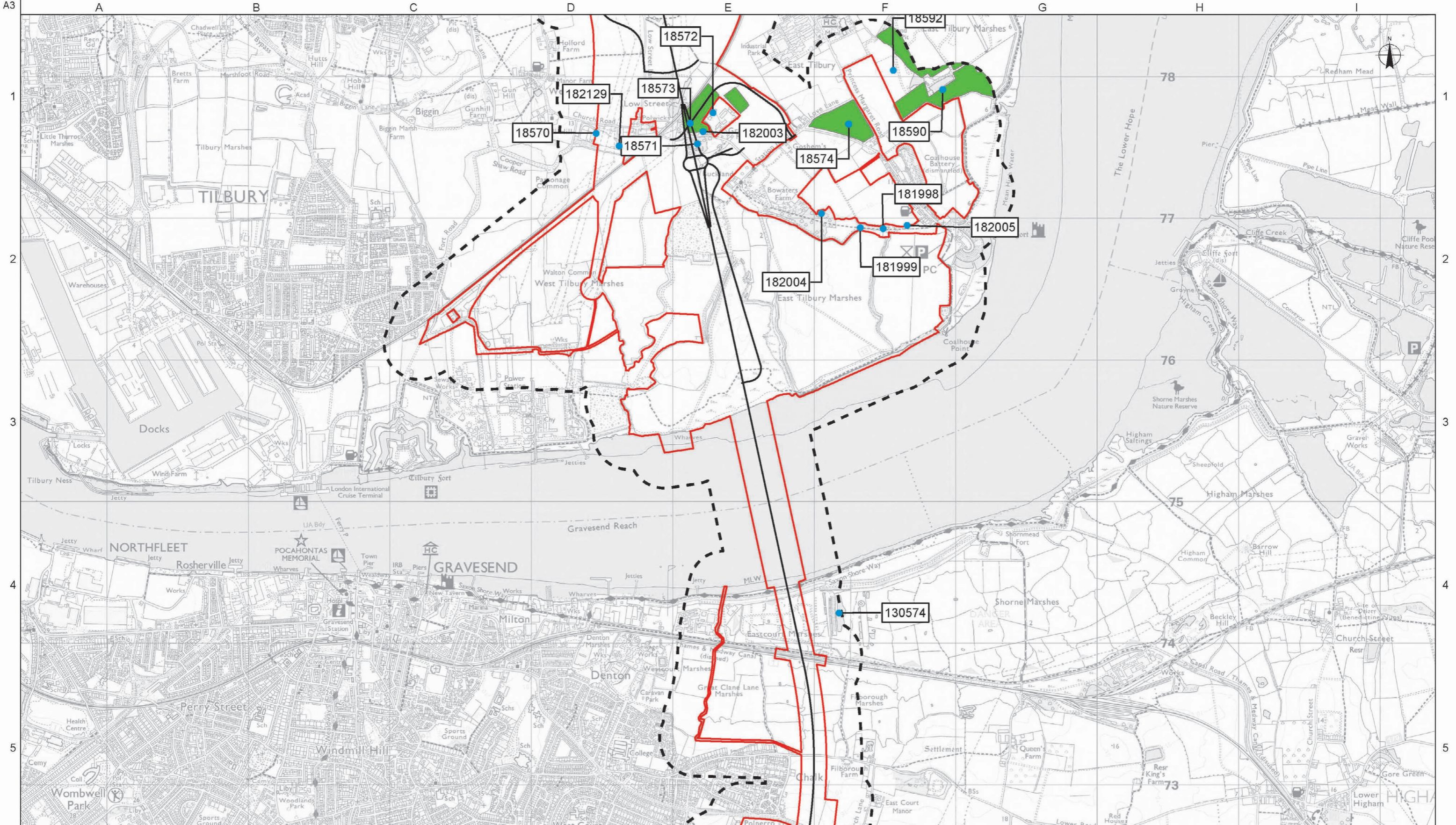


- Legend**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - BRITPITS
 - Approved Planning Permission for Mineral Extraction

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



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Drawing Title Figure 11.8 - Historical Mineral Planning Permissions Sheet 1 of 5		Suitability For Information	Status S2
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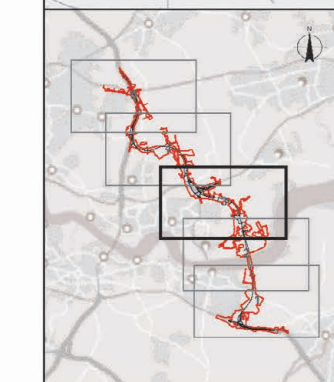
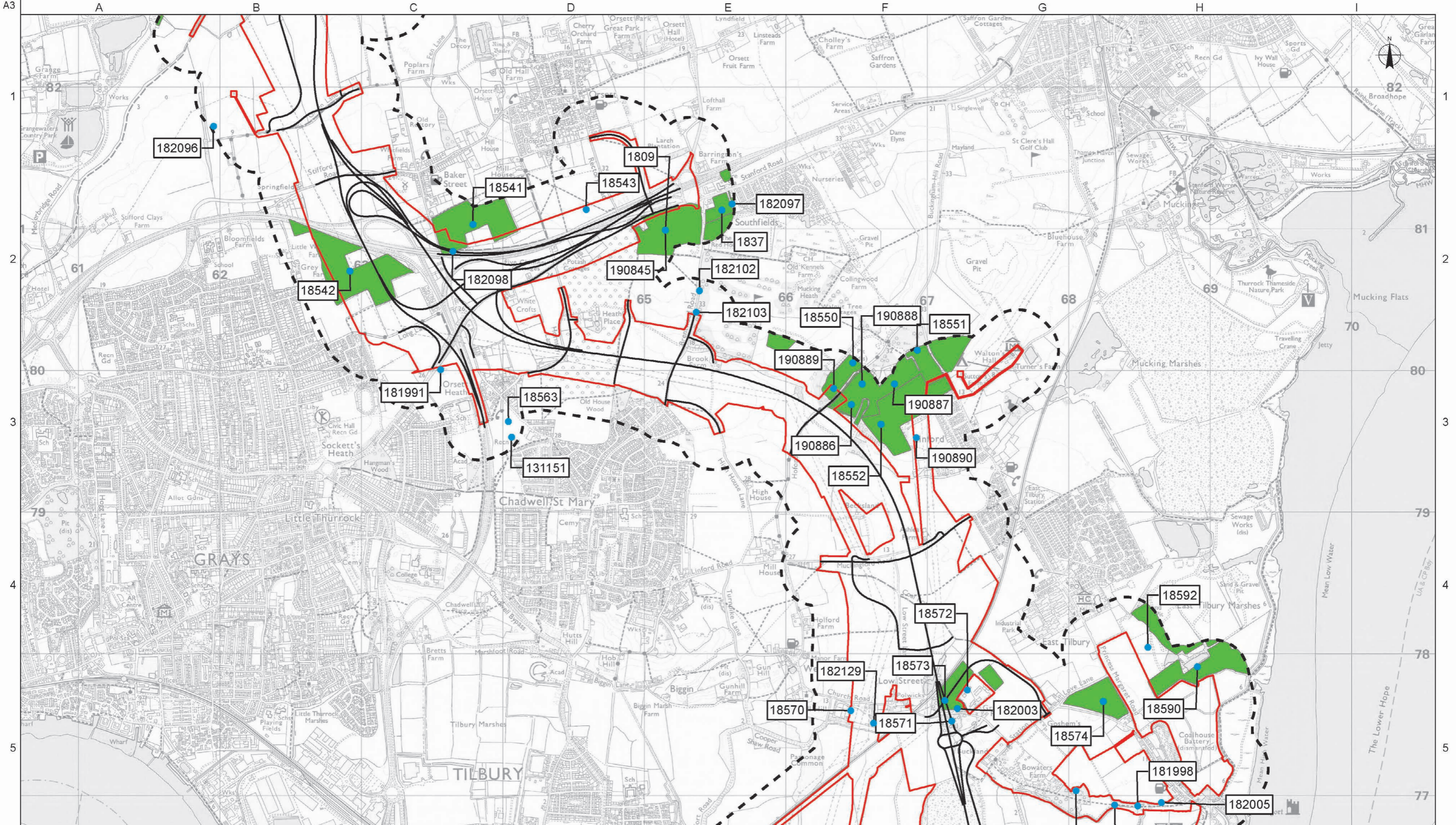


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Client			
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Drawing Title		Figure 11.8 - Historical Mineral Planning Permissions Sheet 2 of 5	

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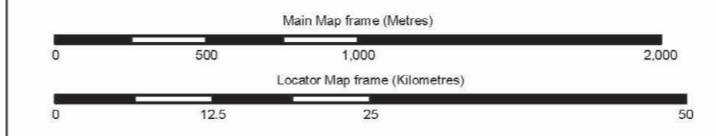
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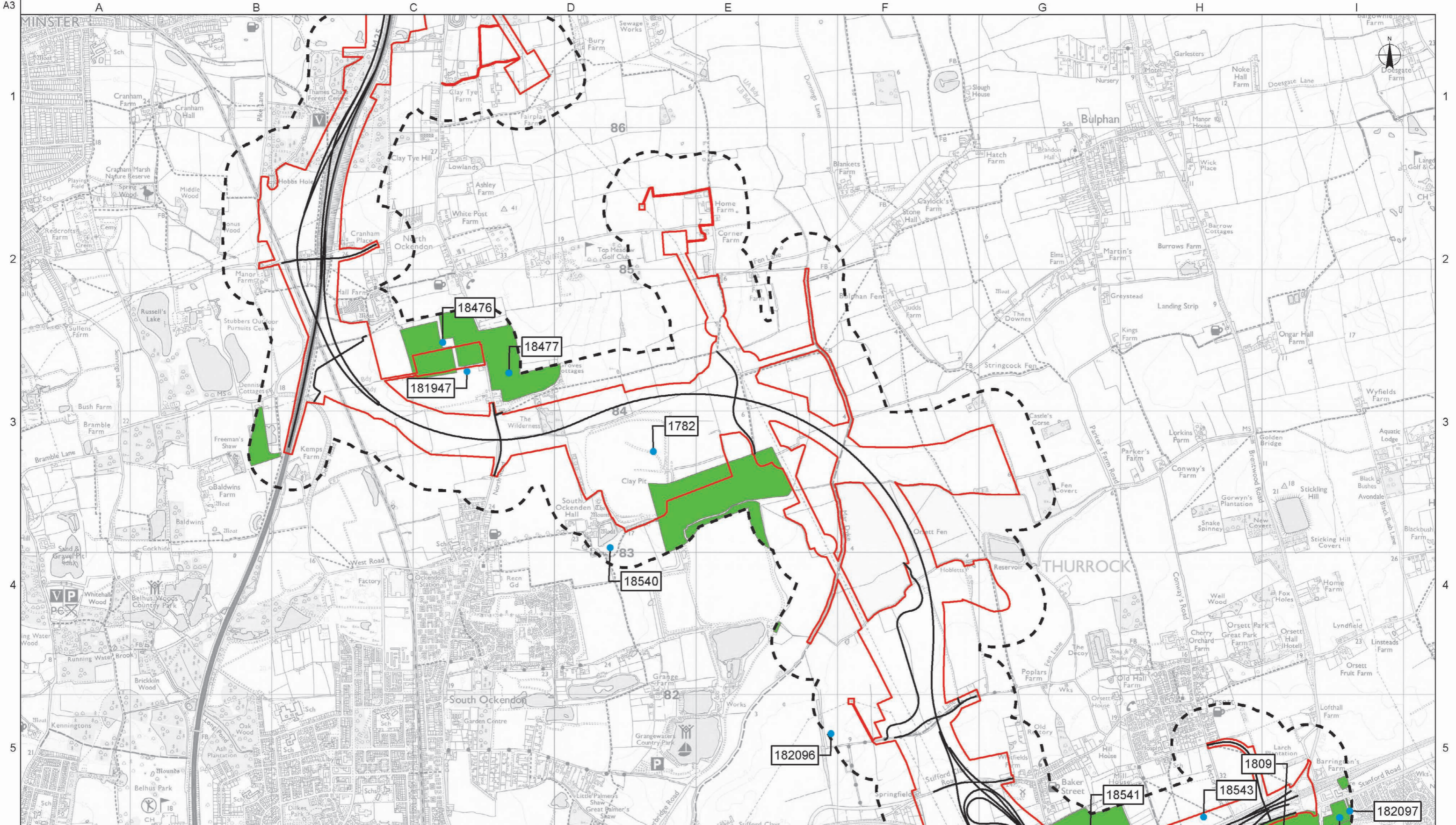


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P01	EP	02/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

- Legend**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - BRITPITS
 - Approved Planning Permission for Mineral Extraction

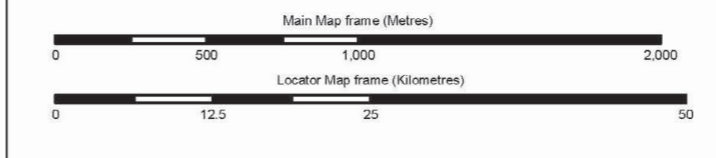
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- Legend**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - BRITPITS
 - Approved Planning Permission for Mineral Extraction

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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Project Title
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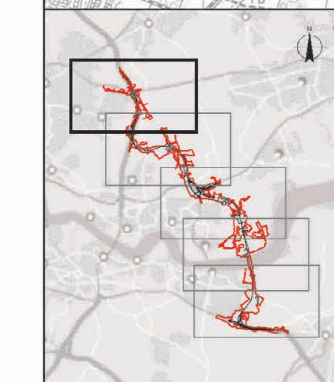
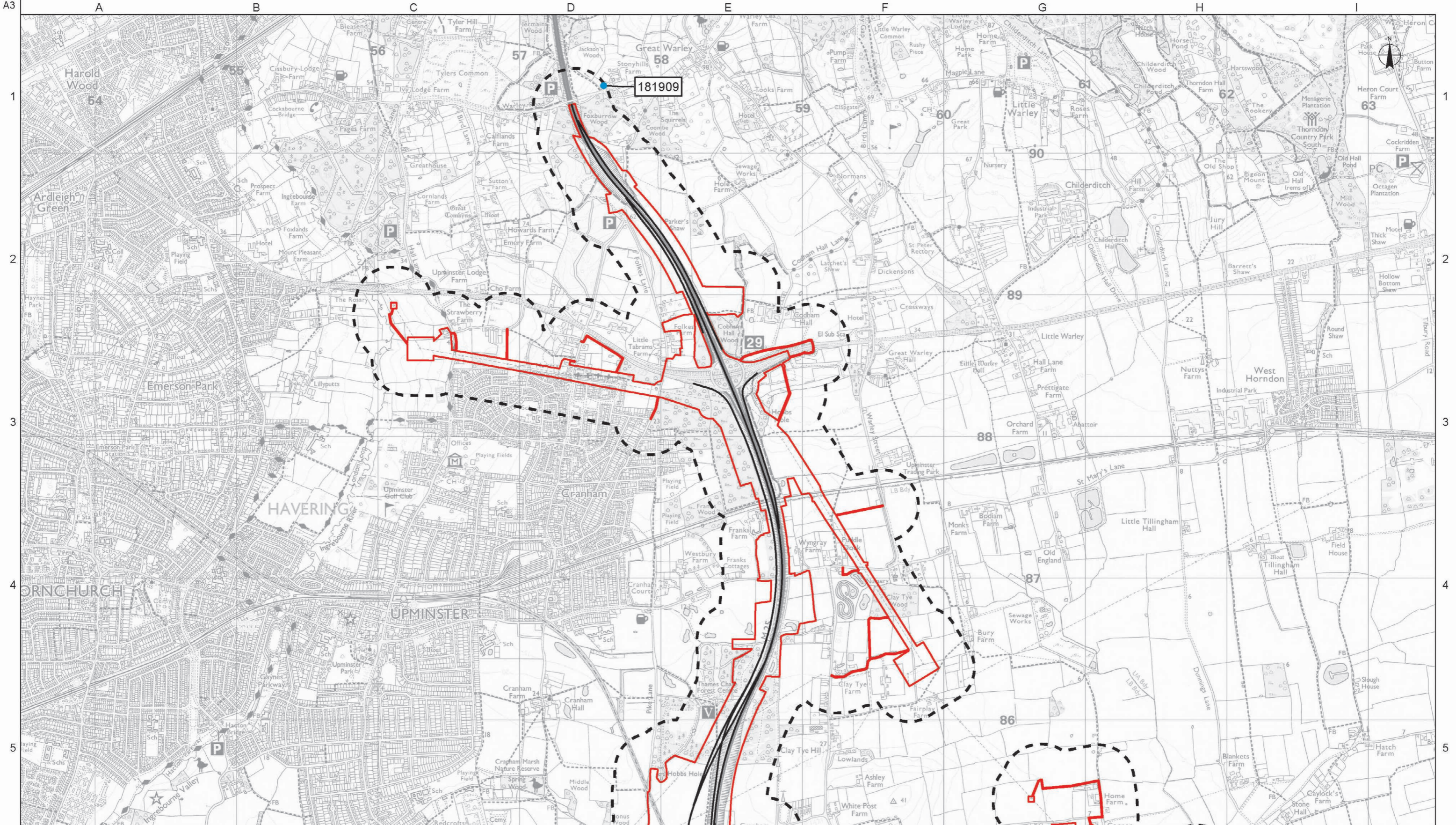
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Figure 11.8 - Historical Mineral Planning Permissions Sheet 4 of 5

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Drawing Title	Figure 11.8 - Historical Mineral Planning Permissions Sheet 5 of 5	
Suitability	Status	Revision
For Information	S2	P01
Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40015	

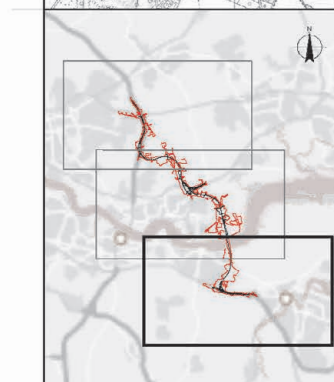
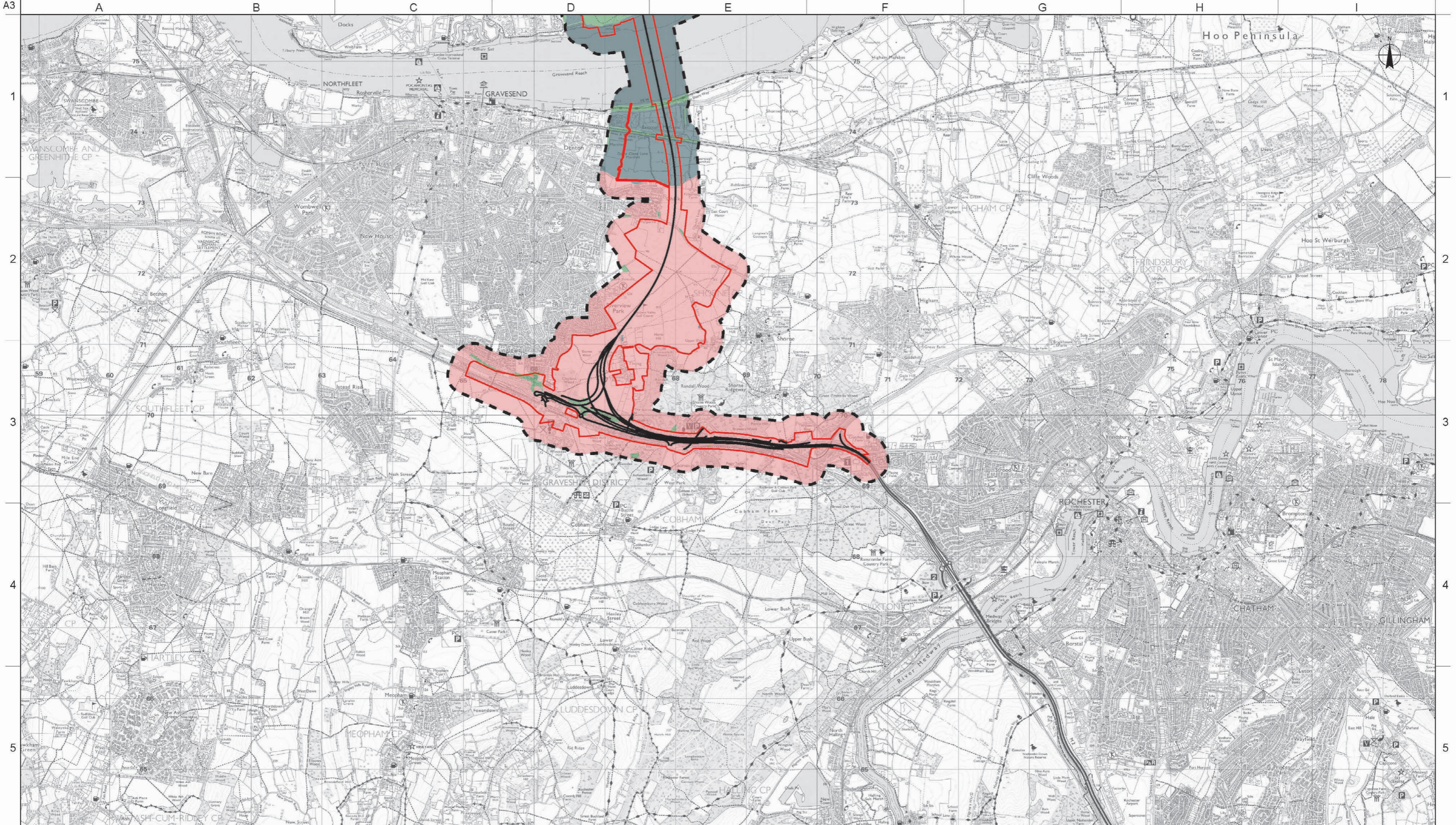
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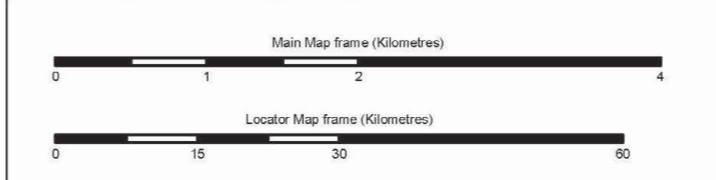
© Lower Thames Crossing



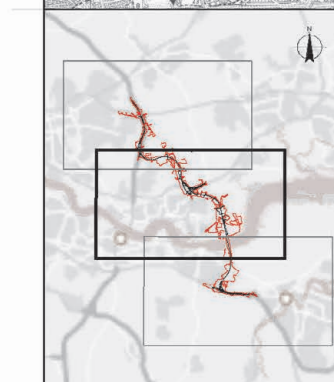
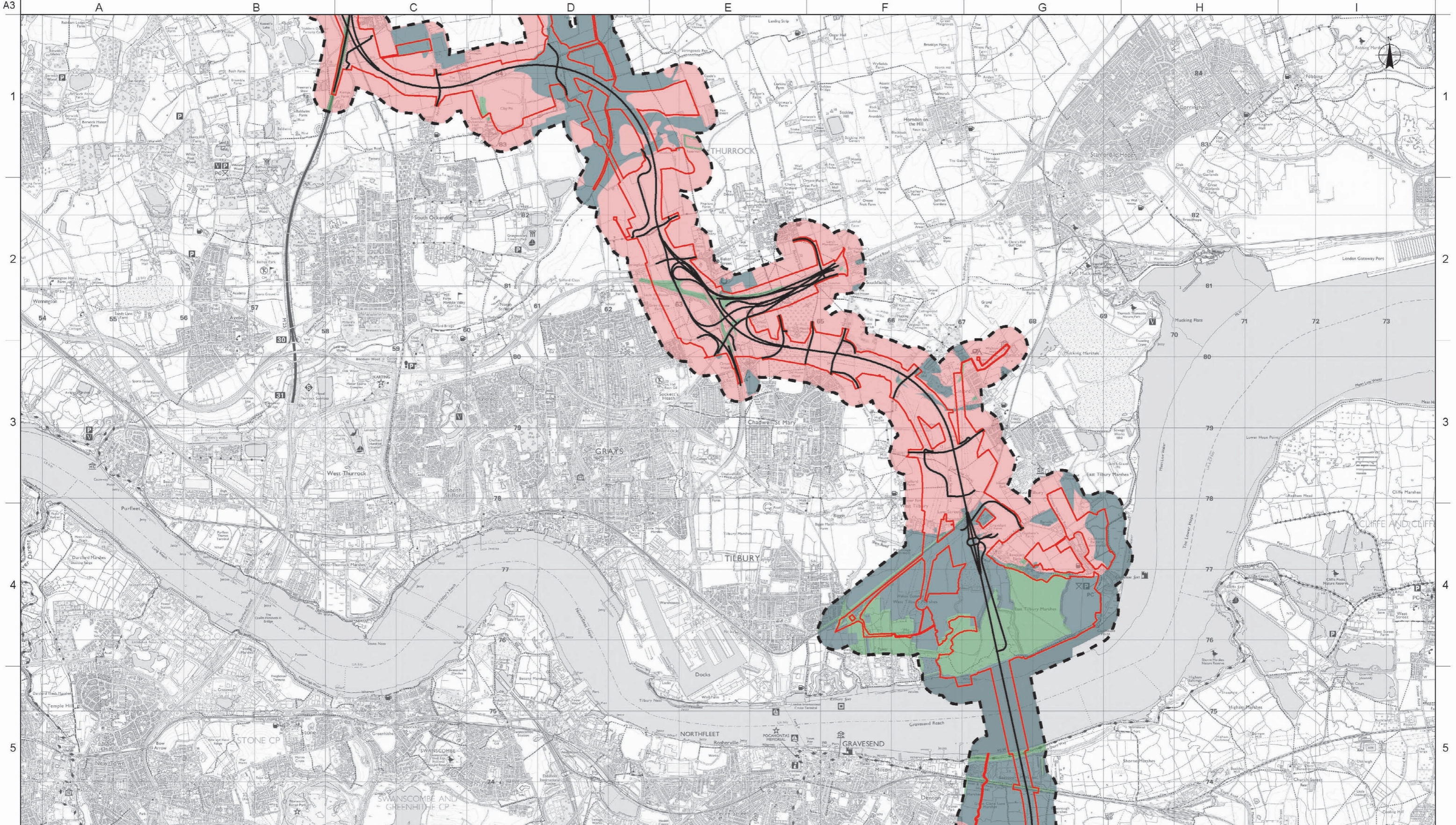
Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Compressible strata are not thought to occur
- Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site
- Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses
- Highly compressible strata present. Significant constraint on land use depending on thickness

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



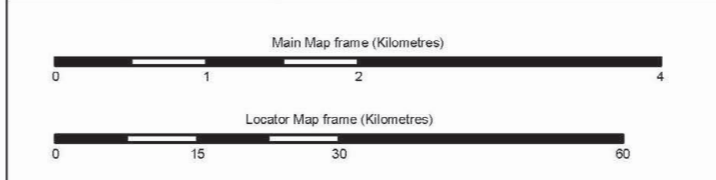
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Drawing Title	Figure 11.9 - Compressible Deposits	Suitability	Status
	Sheet 1 of 3	For Information	S2
		Revision	P01
		Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40016



Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Compressible strata are not thought to occur
- Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses
- Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site
- Highly compressible strata present. Significant constraint on land use depending on thickness

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

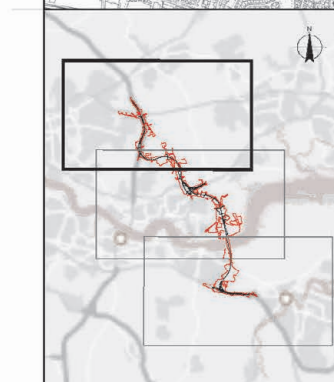
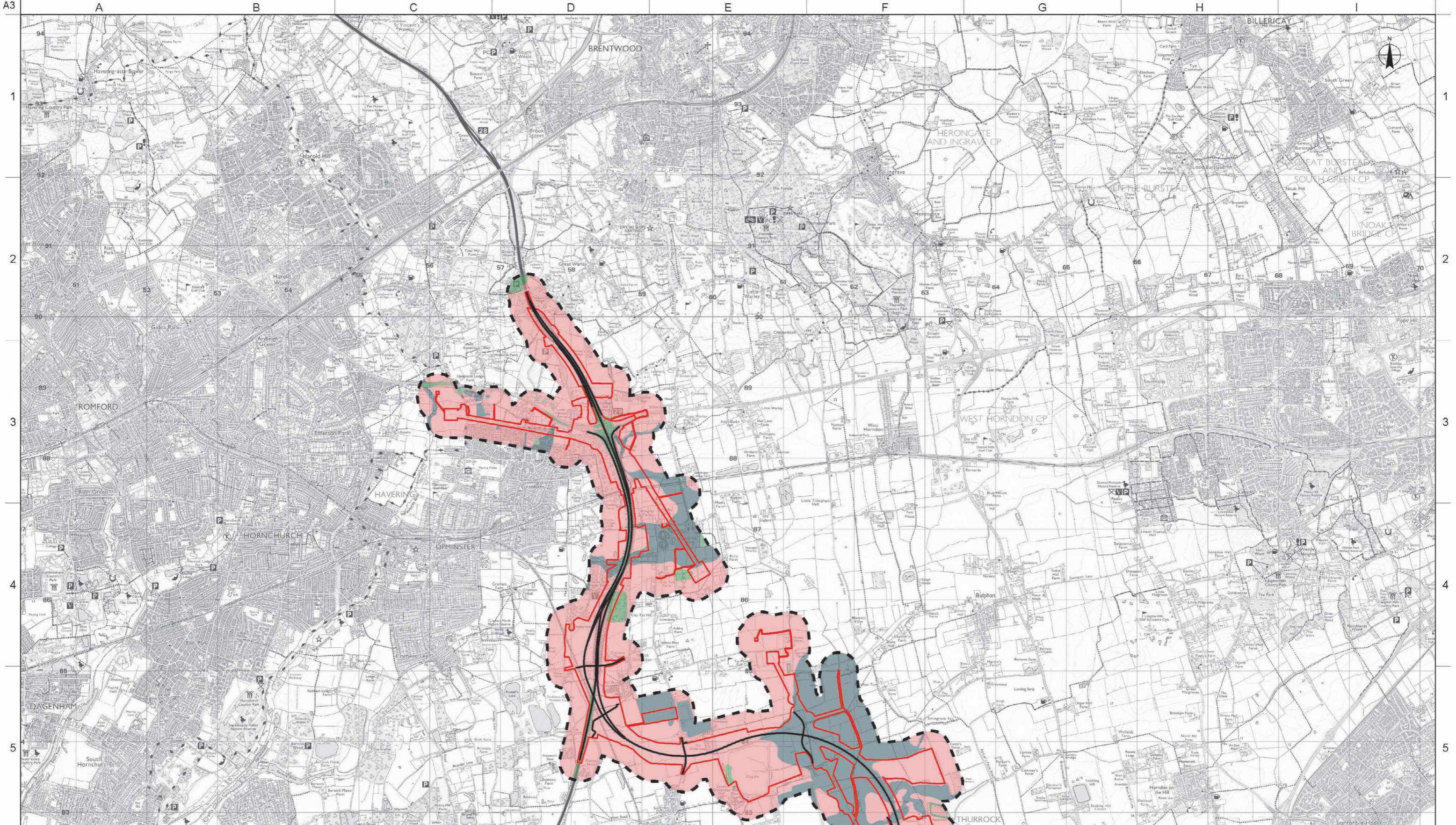
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Figure 11.9 - Compressible Deposits Sheet 2 of 3

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Suitability	Status	Revision
For Information	S2	P01

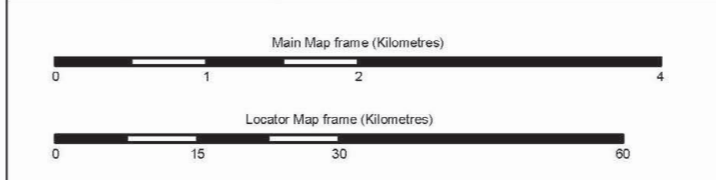
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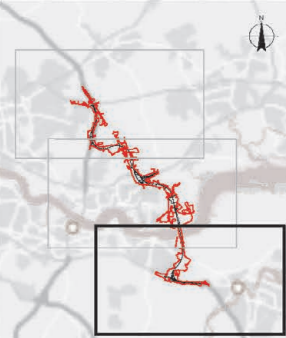
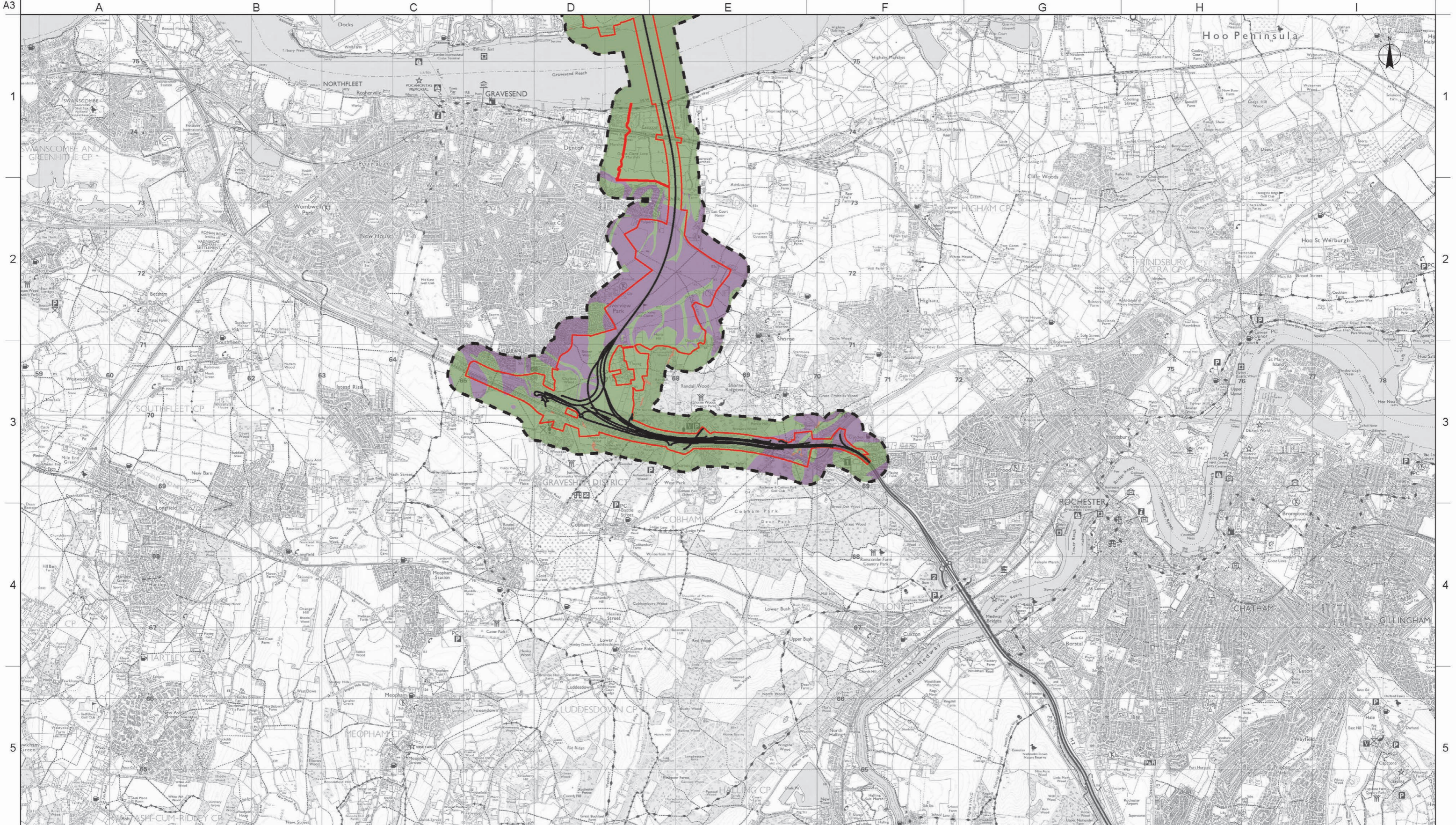
Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Compressible strata are not thought to occur
- Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses
- Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site
- Highly compressible strata present. Significant constraint on land use depending on thickness

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



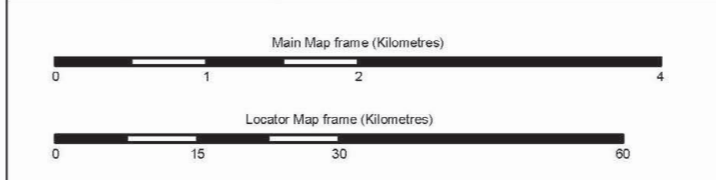
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Drawing Title	Figure 11.9 - Compressible Deposits	Suitability	Status
	Sheet 3 of 3	For Information	S2
		Revision	
		P01	
		Drawing Number	
		HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40016	



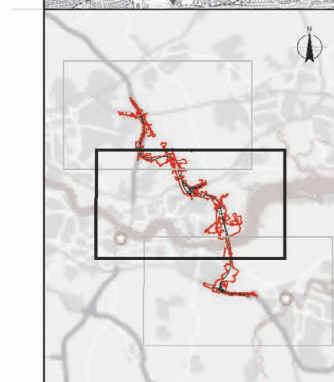
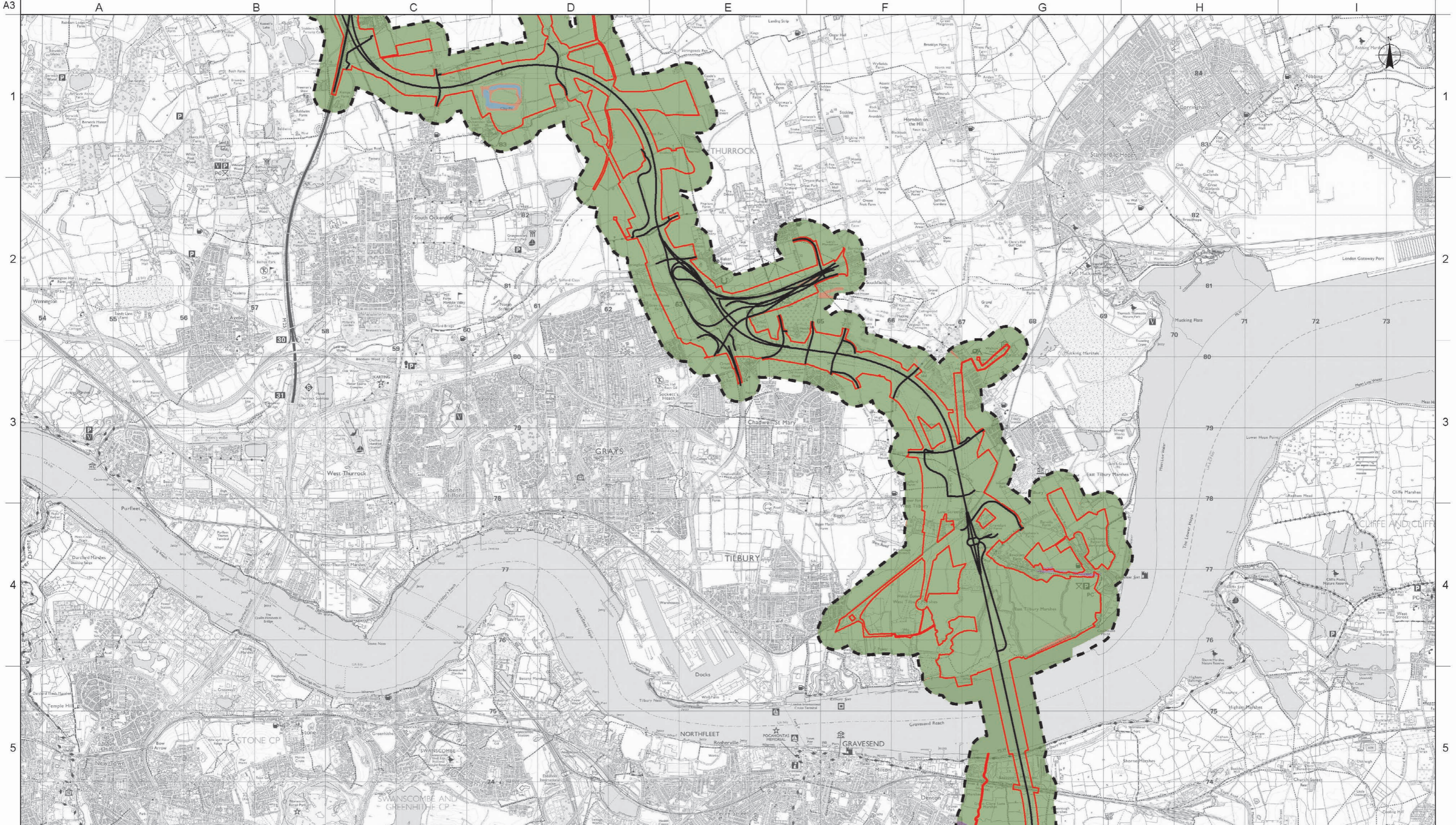
Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Slope instability problems almost certainly present and may be active
- Slope instability problems are probably present or have occurred in the past
- Slope instability problems may be present or anticipated
- Slope instability problems are not likely to occur but consideration of potential problems of adjacent areas impacting on the site should always be considered
- Slope instability problems are not thought to occur but consideration of potential problems of adjacent areas impacting on the site should always be considered

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

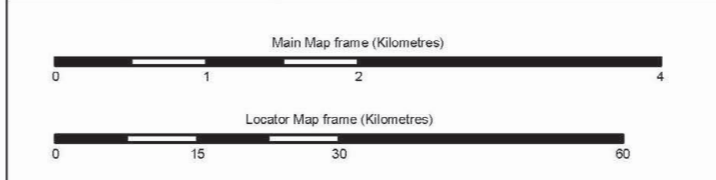


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<p>Drawing Title</p> <p>Figure 11.10 - Slope Stability Sheet 1 of 3</p>	<table border="1" style="width: 100%;"> <tr> <th>Suitability</th> <th>Status</th> <th>Revision</th> </tr> <tr> <td>For Information</td> <td>S2</td> <td>P01</td> </tr> </table>	Suitability	Status	Revision	For Information	S2	P01
Suitability	Status	Revision					
For Information	S2	P01					
<p>Drawing Number</p> <p>HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40023</p>							



Legend	
	LTC Route Alignment
	Development Boundary
	250m Study Area
	Slope instability problems almost certainly present and may be active
	Slope instability problems are probably present or have occurred in the past
	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered
	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered
	Slope instability problems may be present or anticipated

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

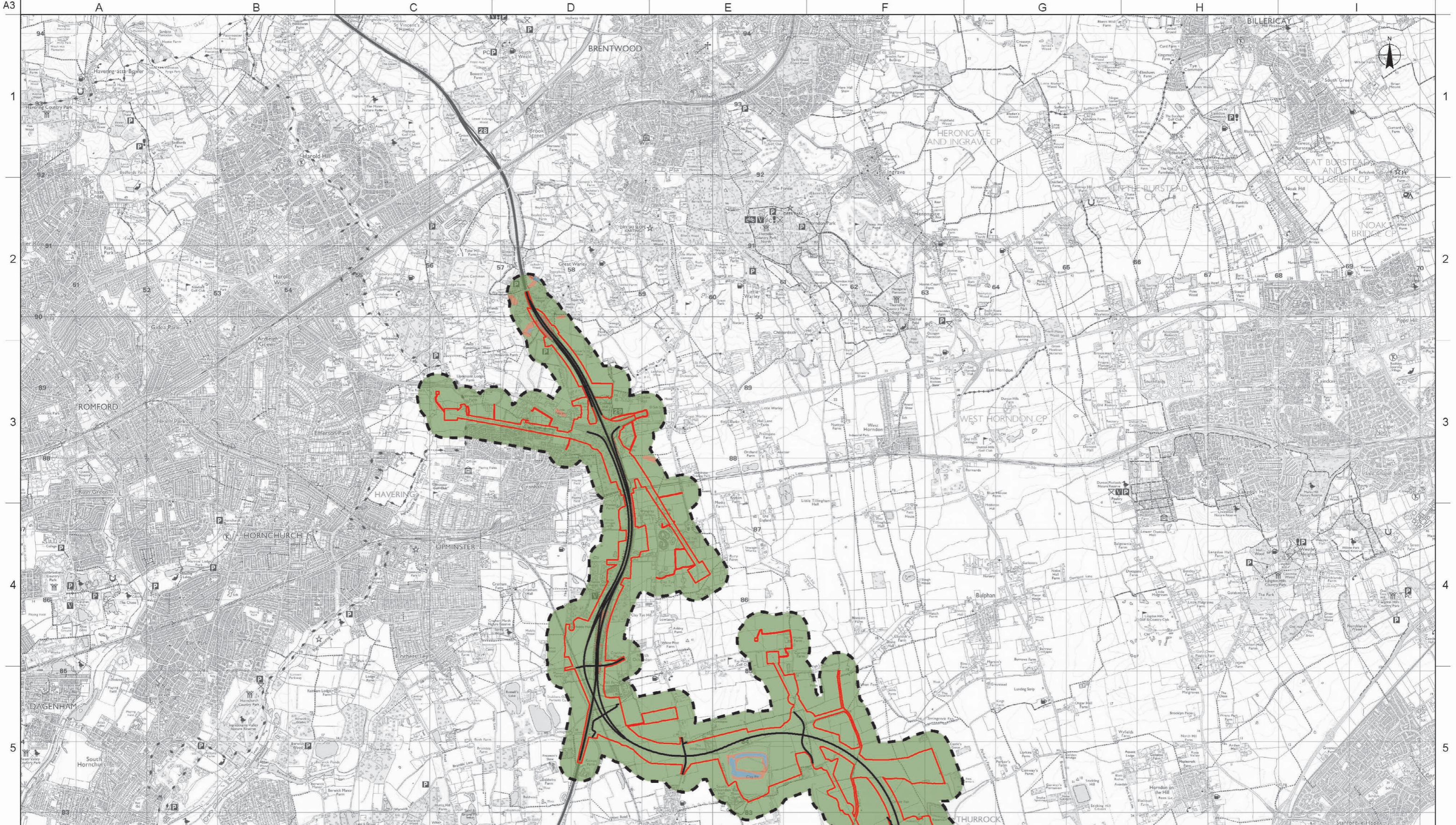


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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 11.10 - Slope Stability Sheet 2 of 3

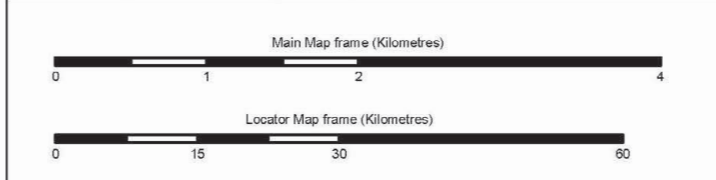
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Suitability	Status	Revision
For Information	S2	P01
Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40023	



Legend		
	LTC Route Alignment	
	Development Boundary	
	250m Study Area	

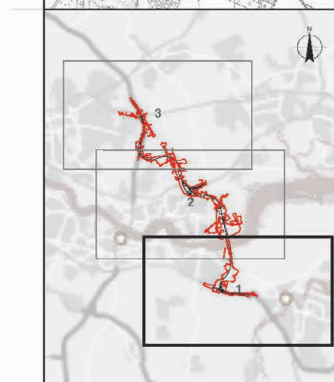
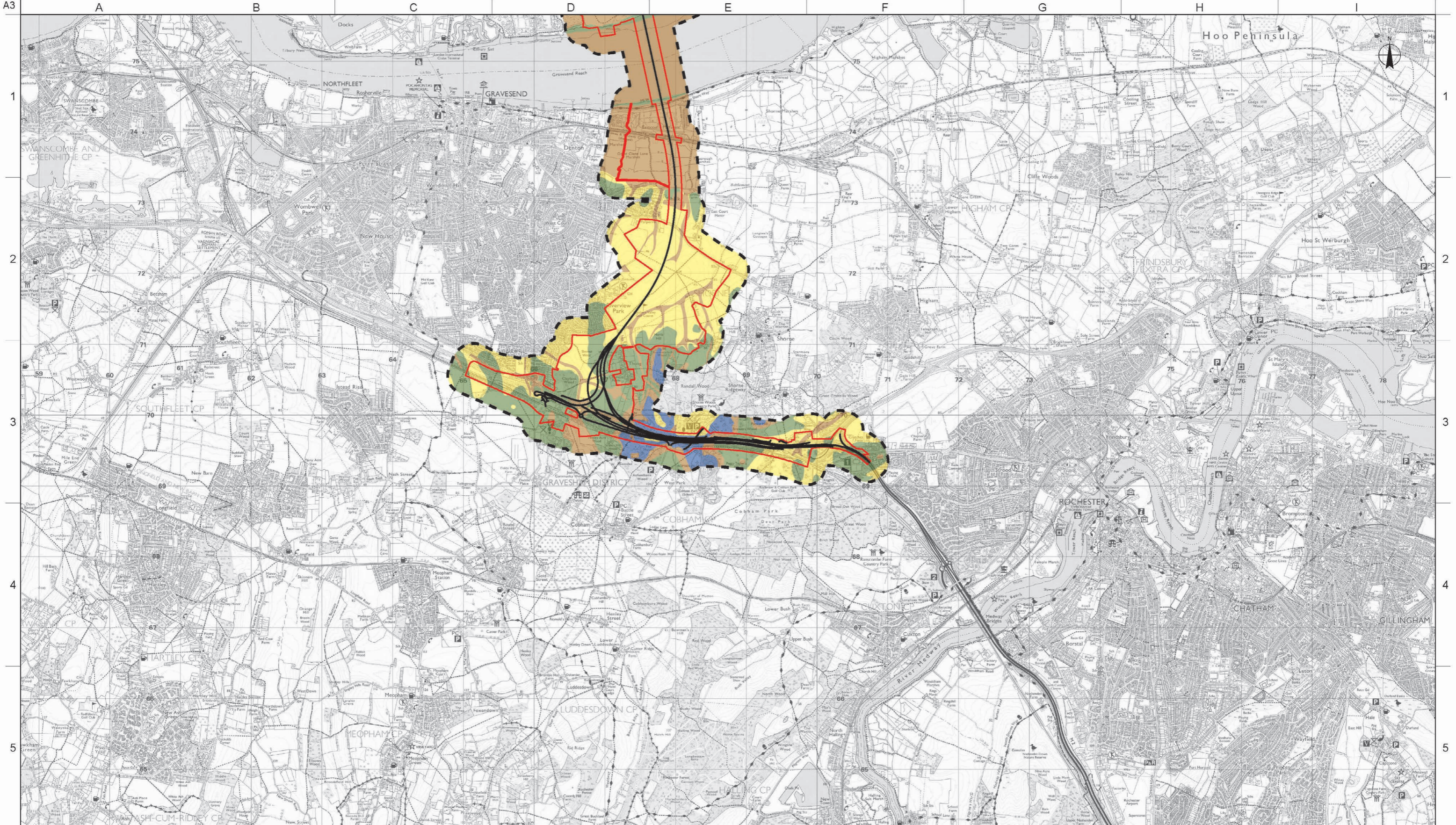
Slope instability problems almost certainly present and may be active
 Slope instability problems are not likely to occur but consideration of adjacent areas impacting on the site should always be considered
 Slope instability problems are probably present or have occurred in the past
 Slope instability problems may be present or anticipated
 Slope instability problems are not thought to occur but consideration of potential problems of adjacent areas impacting on the site should always be considered

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



Client		
Project Title	LOWER THAMES CROSSING STATUTORY CONSULTATION	
Drawing Title	Figure 11.10 - Slope Stability Sheet 3 of 3	

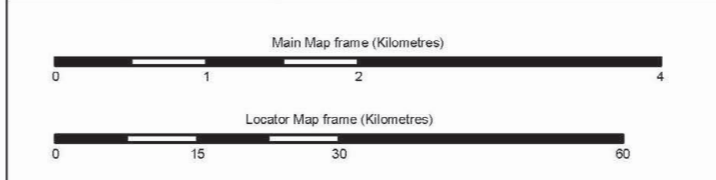
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Suitability	Status	Revision
For Information	S2	P01
Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40023	



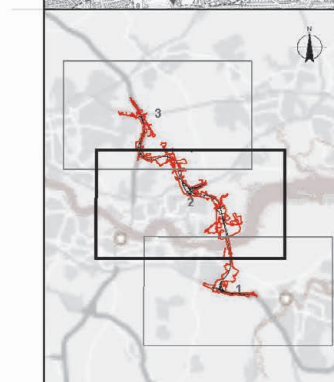
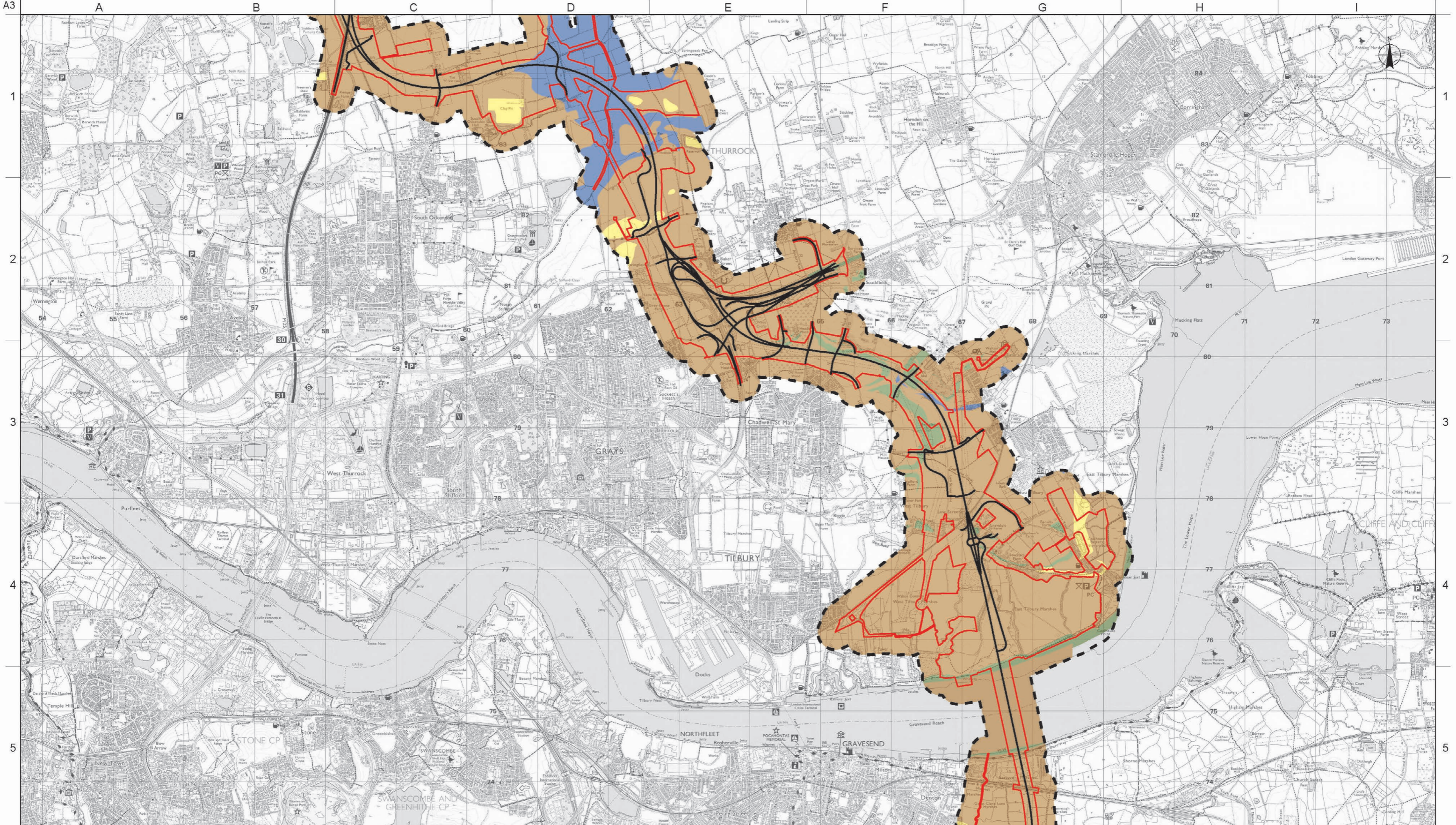
Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water
- Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water
- Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions
- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



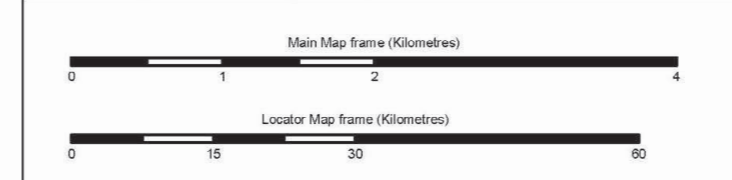
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<p>Drawing Title</p> <p>Figure 11.11 - Shrink Swell - Running Sands</p> <p>Sheet 1 of 3</p>	<table border="1" style="width: 100%;"> <tr> <th>Suitability</th> <th>Status</th> <th>Revision</th> </tr> <tr> <td>For Information</td> <td>S2</td> <td>P01</td> </tr> </table> <p>Drawing Number</p> <p>HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40025</p>	Suitability	Status	Revision	For Information	S2	P01
Suitability	Status	Revision					
For Information	S2	P01					



Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water
- Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions
- Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water
- Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



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Project Title
**LOWER THAMES CROSSING
STATUTORY CONSULTATION**

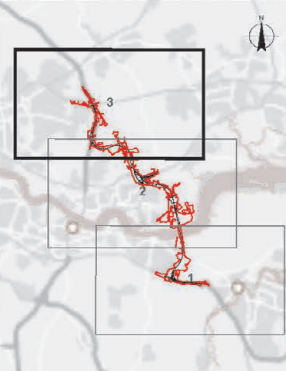
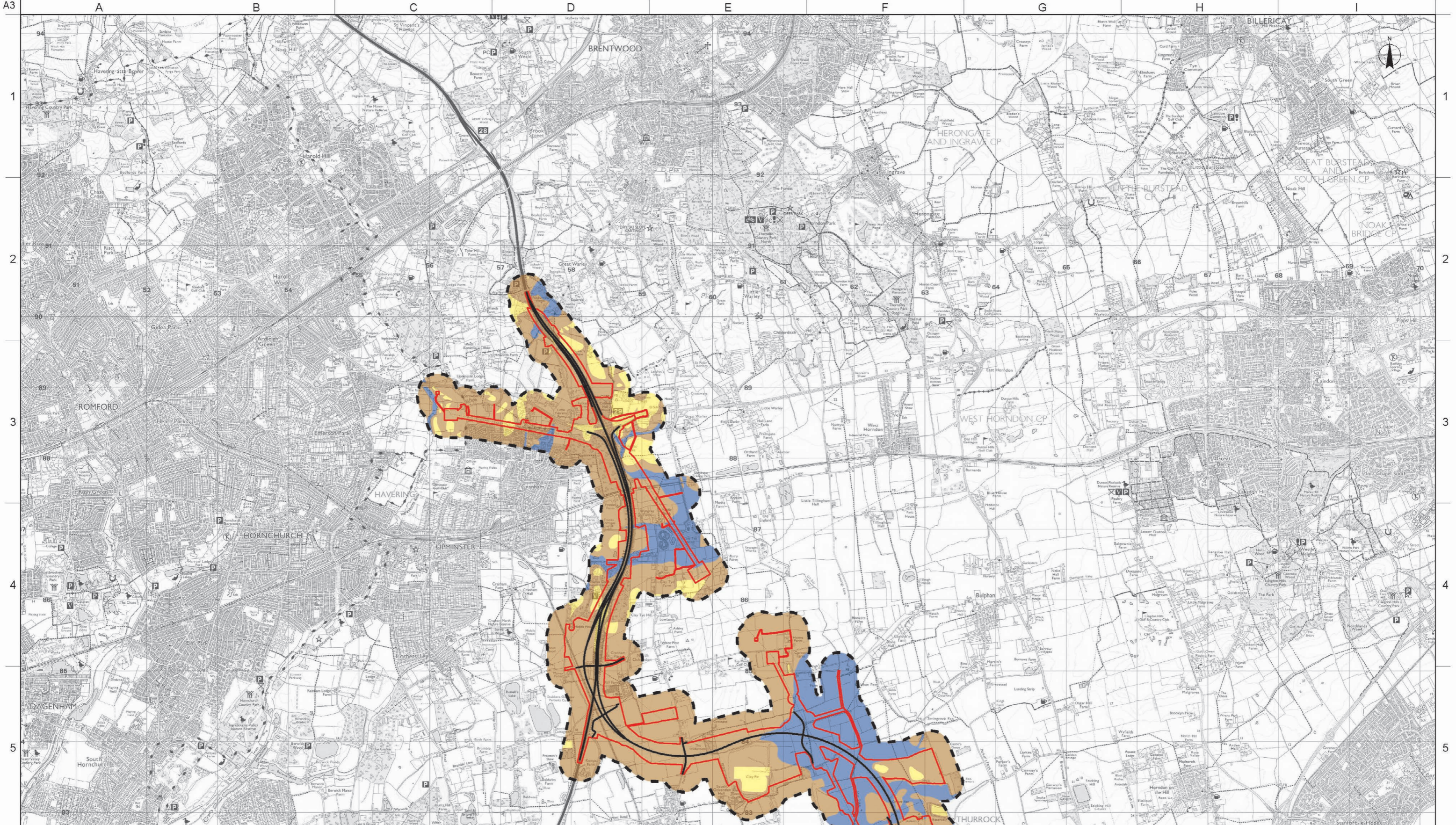
Drawing Title
**Figure 11.11 - Shrink Swell - Running Sands
Sheet 2 of 3**

Scale at A3
Main Map frame **1:50,000**
Locator Map frame: **1:800,000**

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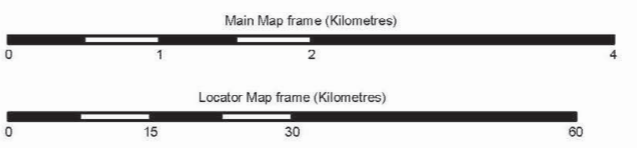
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For Information	S2	P01

Drawing Number
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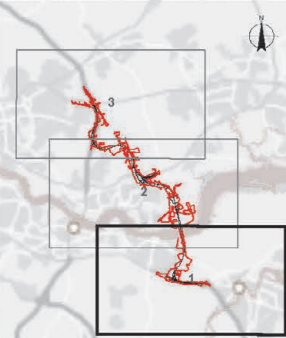
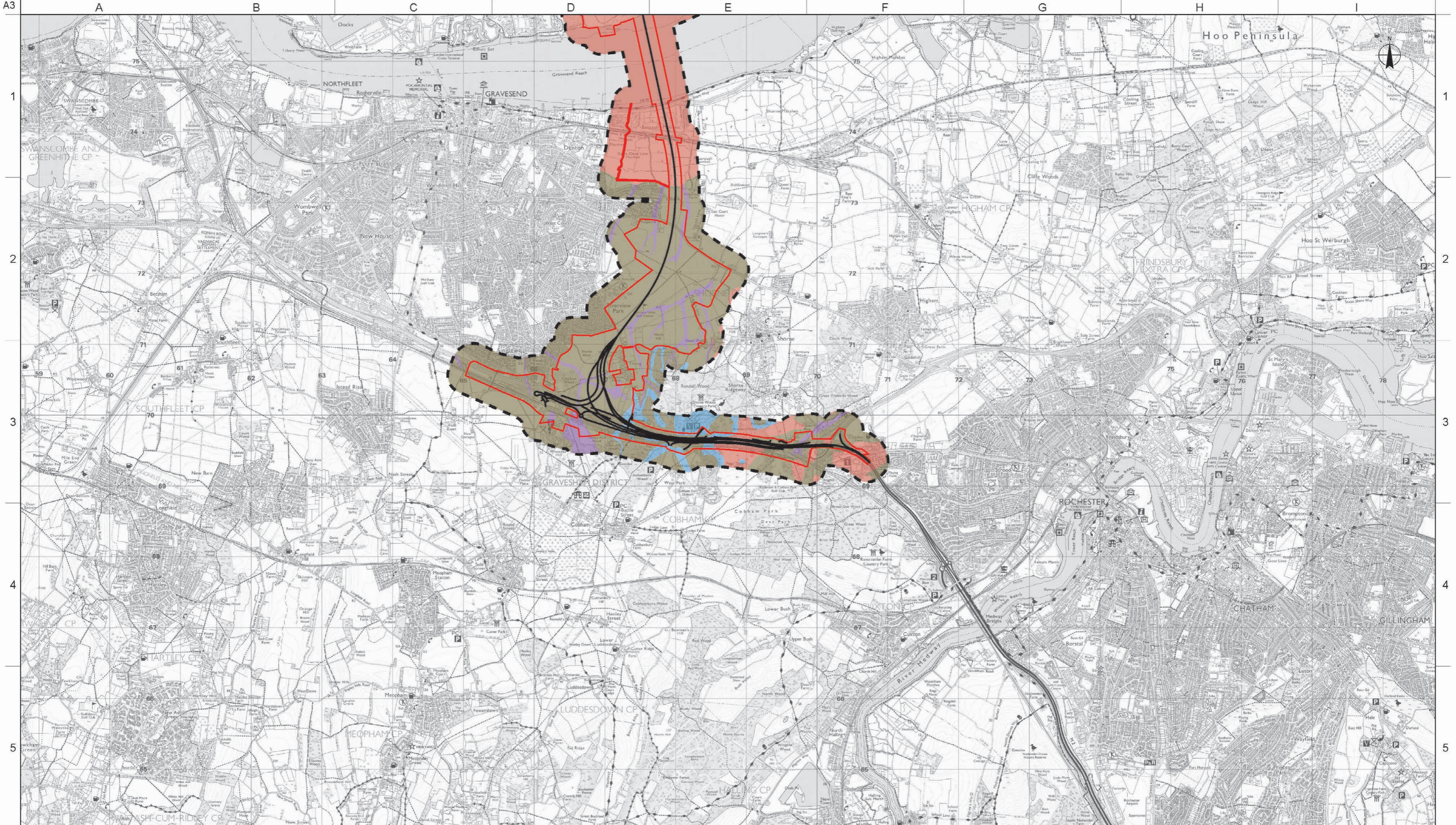


- Legend:**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly
 - Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water
 - Running sand conditions are not thought to occur whatever the position of the water table.
 - No identified constraints on lands use due to running conditions

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information

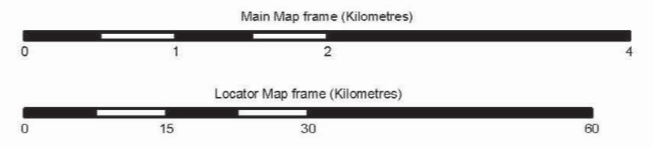


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Drawing Title	Figure 11.11 - Shrink Swell - Running Sands Sheet 3 of 3	
Client	Suitability	Status
	For Information	S2
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Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40025	

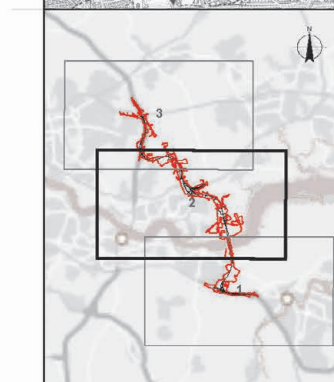
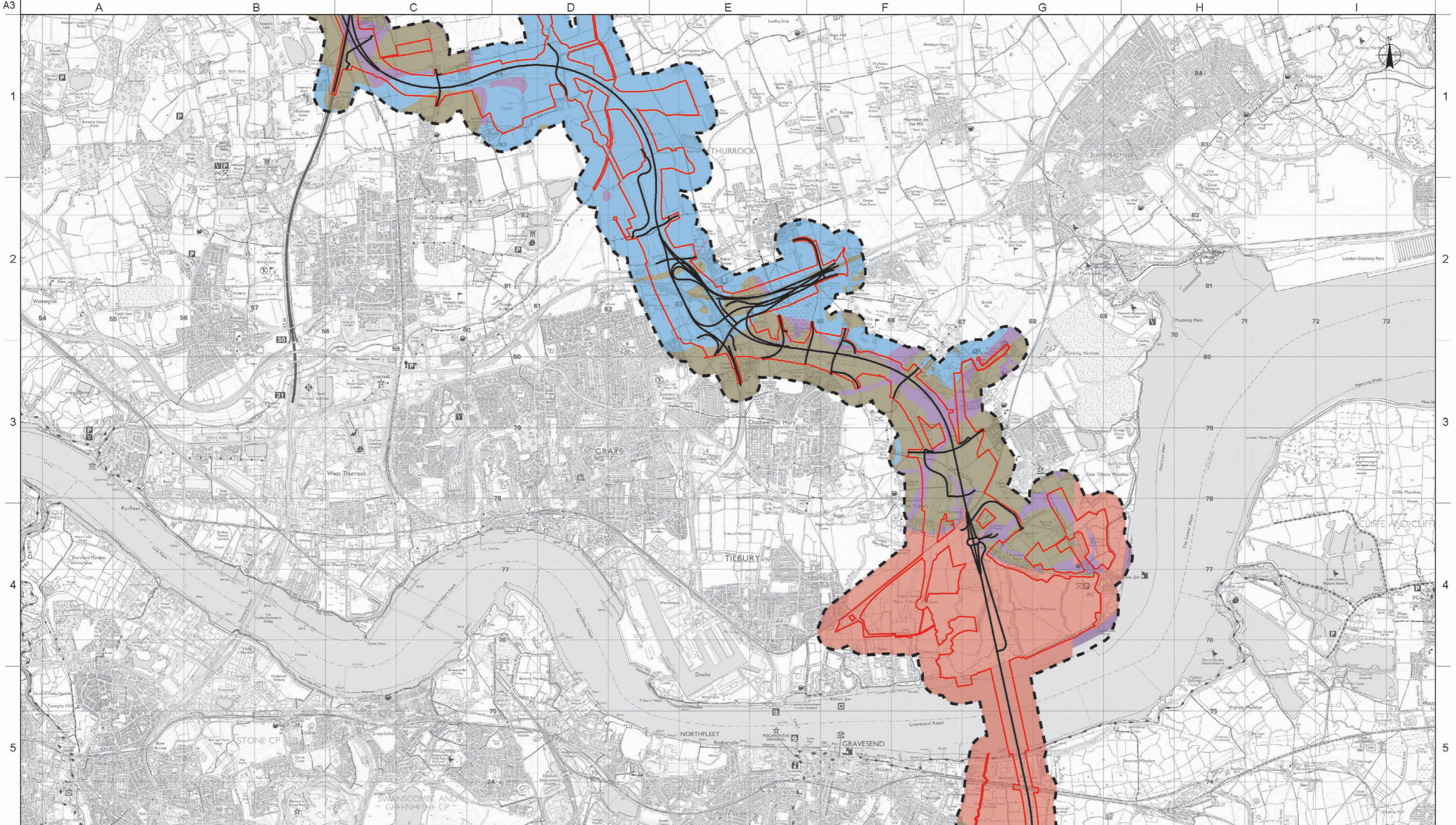


- Legend:**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - Ground conditions predominantly high plasticity
 - Ground conditions predominantly medium plasticity
 - Ground conditions predominantly low plasticity
 - Ground conditions predominantly non-plastic

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



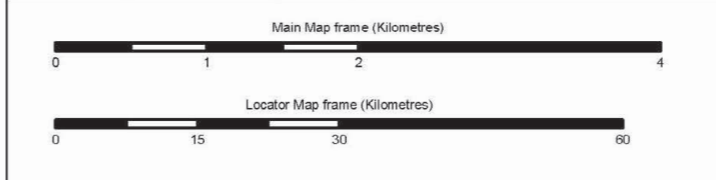
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Drawing Title	Figure 11.12 - Shrink Swell - Plasticity	Suitability	Status
	Sheet 1 of 3	For Information	S2
		Revision	P01
		Drawing Number	HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40024



Legend:

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Ground conditions predominantly very high plasticity
- Ground conditions predominantly high plasticity
- Ground conditions predominantly medium plasticity
- Ground conditions predominantly low plasticity
- Ground conditions predominantly non-plastic

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



Client

Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

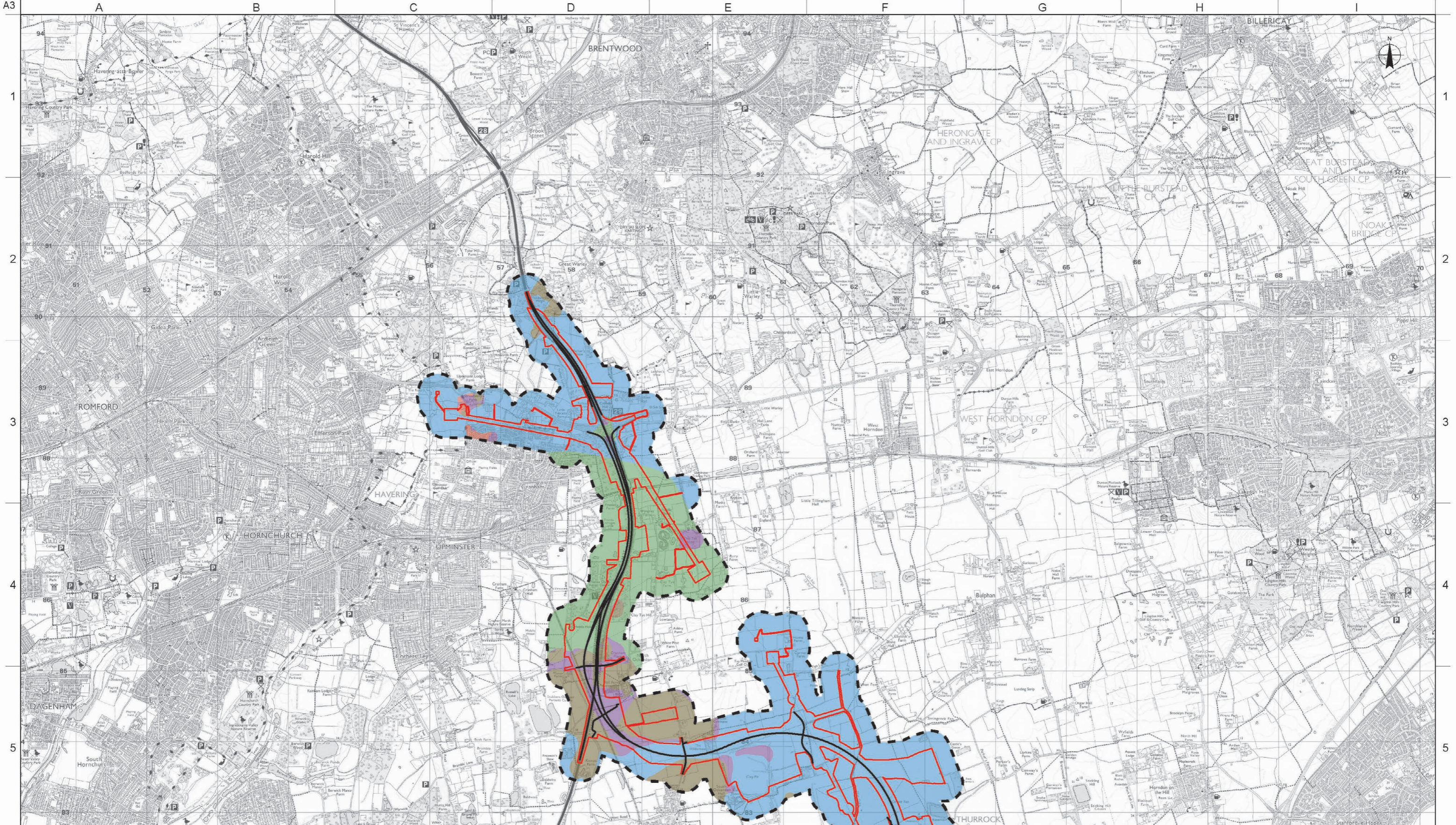
Drawing Title
Figure 11.12 - Shrink Swell - Plasticity Sheet 2 of 3

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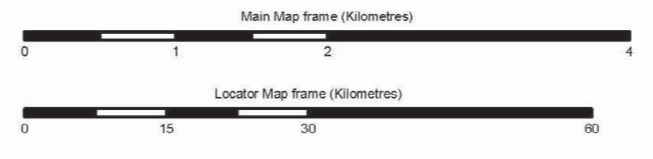
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For Information	S2	P01

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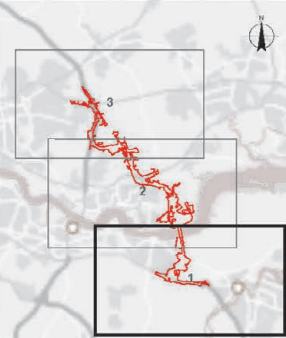
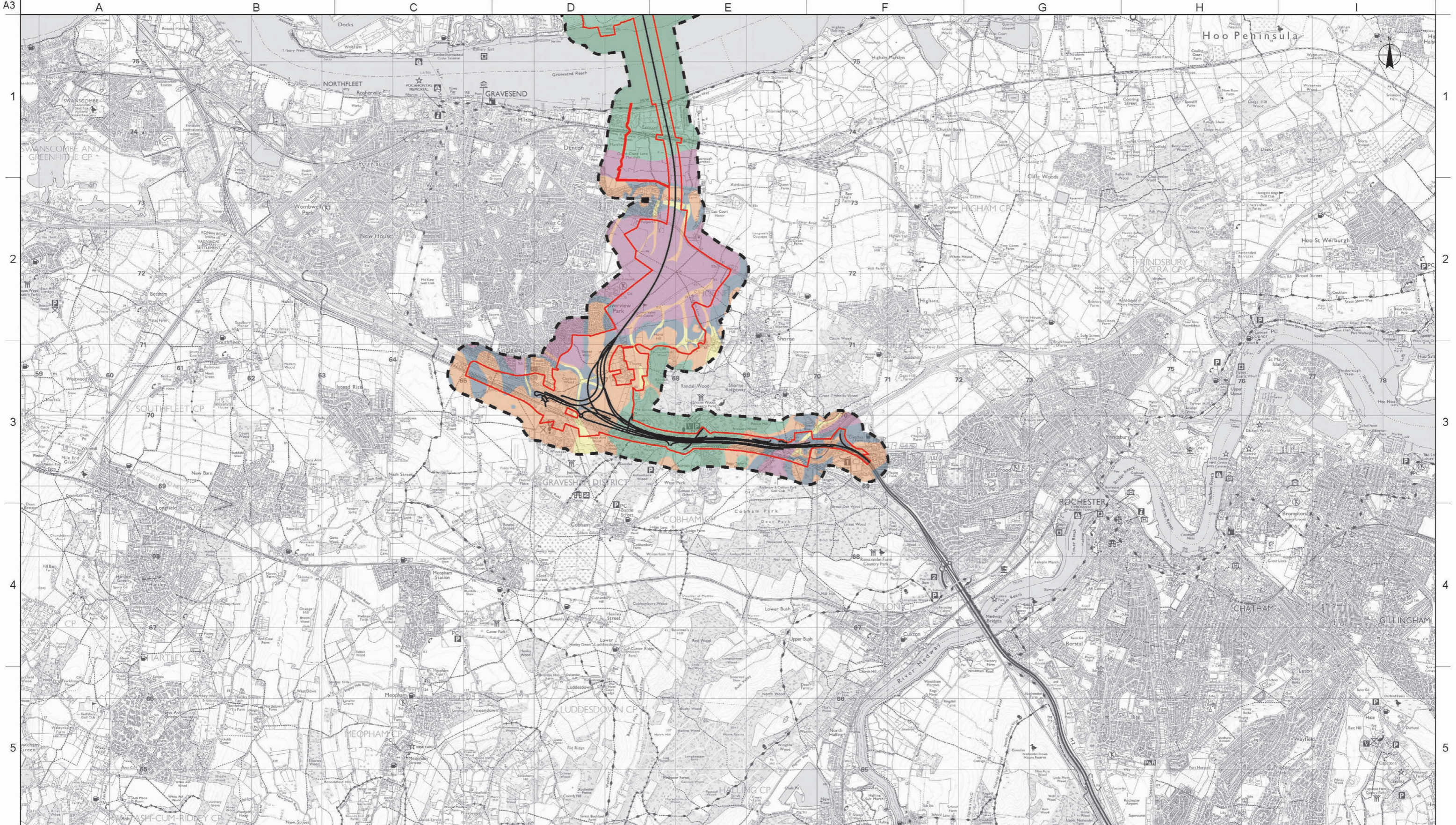


- Legend:**
- LTC Route Alignment
 - Development Boundary
 - 250m Study Area
 - Ground conditions predominantly very high plasticity
 - Ground conditions predominantly high plasticity
 - Ground conditions predominantly medium plasticity
 - Ground conditions predominantly low plasticity
 - Ground conditions predominantly non-plastic

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



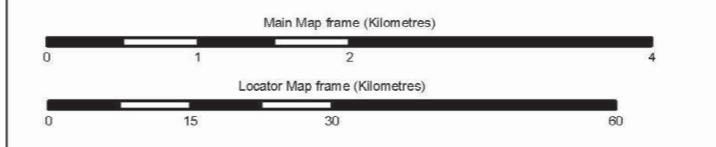
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Drawing Title Figure 11.12 - Shrink Swell - Plasticity Sheet 3 of 3	Suitability For Information	Status S2	Revision P01
	Drawing Number HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40024		



Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Soluble rocks are present within the ground. Numerous dissolution features may be present. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
- Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for suspension is at a level where it may need to be considered
- Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances
- Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered
- Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

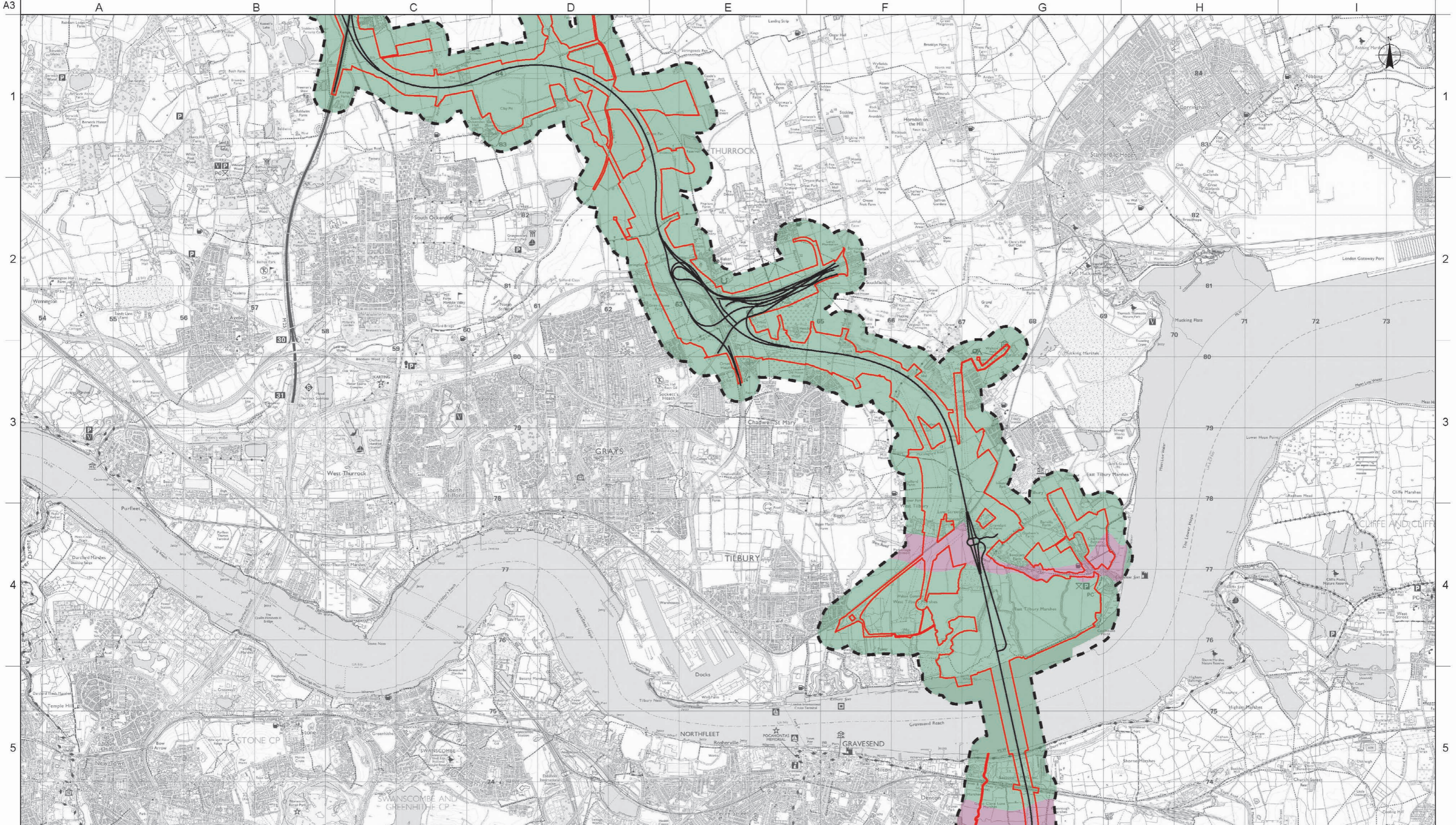
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Figure 11.13 - Soluble Rocks Sheet 1 of 3

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Suitability	Status	Revision
For Information	S2	P01

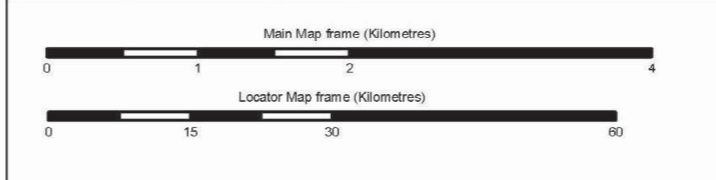
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Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Soluble rocks are present within the ground. Numerous dissolution features may be present. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
- Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered
- Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered
- Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present
- Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances

Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
P01	EP	31/07/2018	AP	17/08/2018	CSS	17/08/2018	For Information



Client

Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

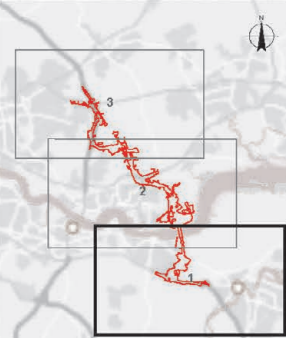
Drawing Title
Figure 11.13 - Soluble Rocks Sheet 2 of 3

Scale at A3
Main Map frame **1:50,000**
Inset **1:800,000**

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Suitability	Status	Revision
For Information	S2	P01

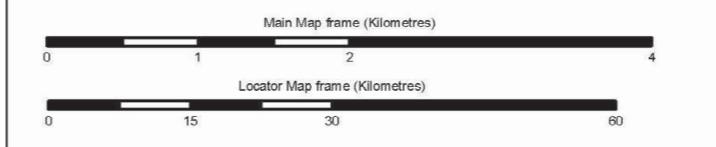
Drawing Number
HE540039-CJV-EGT-SZP_EGNE0000000-DR-LE-40026



Legend

- LTC Route Alignment
- Development Boundary
- 250m Study Area
- Soluble rocks are present within the ground. Numerous dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered
- Soluble rocks are present within the ground. Few dissolution features may be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered
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Rev	Drawn By	Drawn Date	Checked By	Checked Date	Approved By	Approved Date	Revision Purpose
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Project Title
LOWER THAMES CROSSING STATUTORY CONSULTATION

Drawing Title
Figure 11.13 - Soluble Rocks Sheet 3 of 3

Scale at A3
Main Map frame **1:50,000**
Inset **1:800,000**

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Suitability	Status	Revision
For Information	S2	P01

Drawing Number
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