

# Lower Thames Crossing

## 6.2 Environmental Statement Figures

### Figure 7.15 - ZTV (2.5km) - Lower Thames Crossing route Highway Section with Earthwork Mitigation (6 of 12)

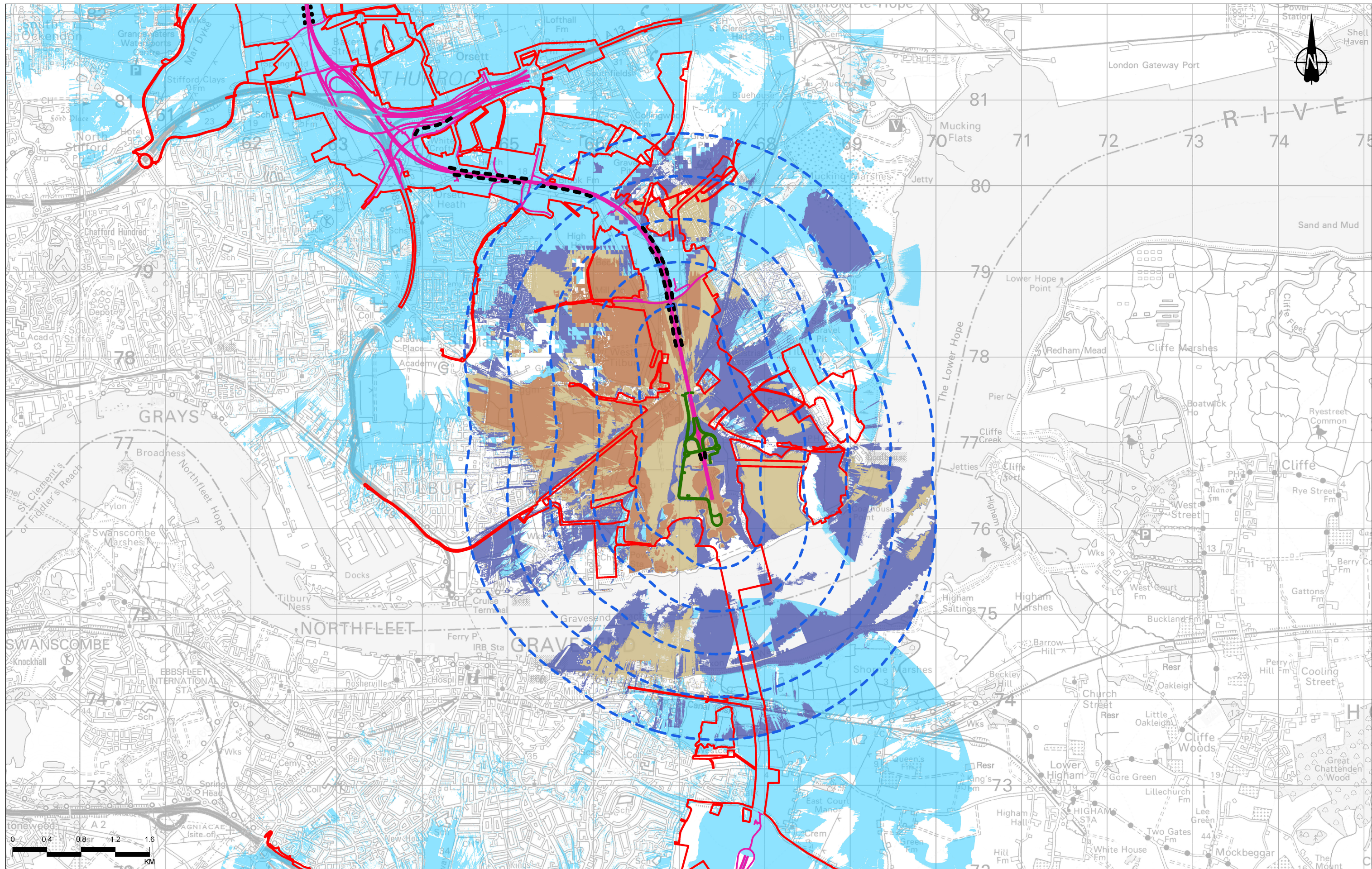
APFP Regulation 5(2)(a)  
Infrastructure Planning  
(Applications: Prescribed Forms and Procedure)  
Regulations 2009  
Volume 6

**DATE:** October 2022

Planning Inspectorate Scheme Ref: TR010032  
Application Document Ref: TR010032/APP/6.2

**VERSION:** 1.0





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P03	S8	09/08/2022	DCO Application	RG	SK	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

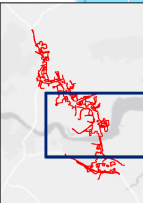
- Legend**
- Order Limits
  - 2.5km study area (500m interval offsets from Section 9)
  - Section 9 of overbridges, side roads and access roads considered within ZTV
  - Route alignment (Project) route not considered within ZTV

- Zone of Theoretical Visibility (ZTV): (1m DSM Mitigation)**
- Section 9 - Vehicles on overbridge structures, side roads and access roads
- Area from which 1% to 33% of Section 9 of vehicles travelling on overbridge structures, side roads and access roads would be theoretically visible
  - Area from which 34% to 66% of Section 9 of vehicles travelling on overbridge structures, side roads and access roads would be theoretically visible
  - Area from which 67% to 100% of Section 9 of vehicles travelling on overbridge structures, side roads and access roads would be theoretically visible

- Extent of visibility from other highway sections of the Lower Thames Crossing route (excluding Vehicles) shown on Figure 7.14**
- Up to 2m high false cutting
  - Up to 4m high false cutting

**Notes:**

- The Zone of Theoretical Visibility (ZTV) was created using Eari and 3D Visibility from the 1m DSM. This has been compiled from data received from National Highways.
- The ZTV illustrates the area of theoretical visibility of the proposed alignments of the Project and a view height of 2m and is limited to a 5km study area.
- The ZTV for vehicles travelling along route alignment and ZTV for overbridges/side roads/access roads have been run using an assumed maximum vehicle height of 4.5m.
- This figure shows theoretical visibility and therefore the worst case extent to which the Project could be visible from the surrounding landscape. The actual extent of visibility is likely to be substantially less than shown on this figure, in particular within urban areas where with the exception of sheltered edges, outward views are typically screened by existing buildings or other features.

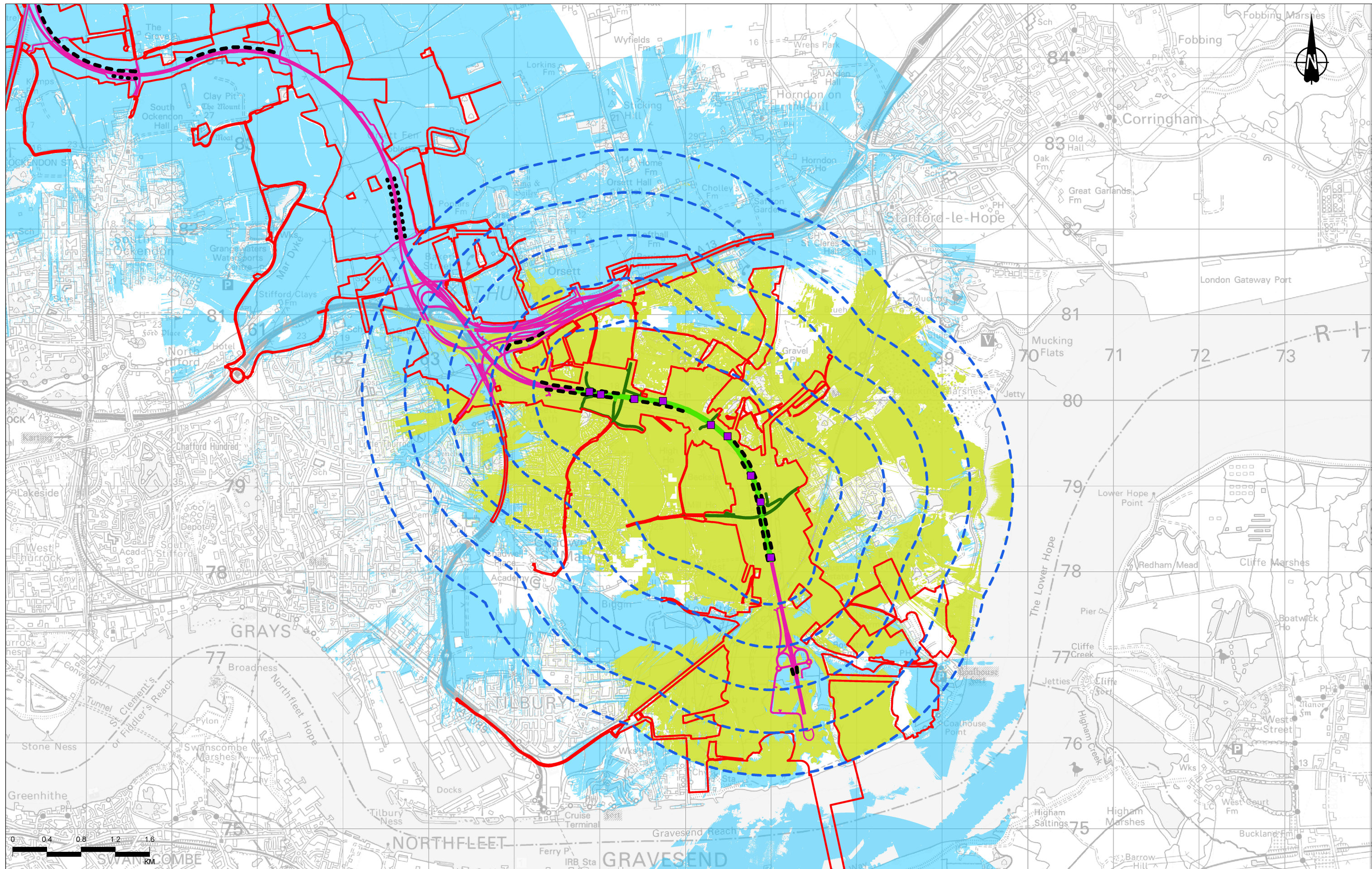


Client **national highways**

Project **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:40,000		
Drawing Title	Figure 7.15 - ZTV (2.5km) - Lower Thames Crossing route Highway Section with Earthwork Mitigation				
	Page 16 of 36				
Drawing Number	HE540039-CJV-ELS-SZP_EGNE0000000-DR-LE-50034				





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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S8	09/08/2022	DCO Application	RG	SK	BF

Legend
<span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px;"></span> Order Limits
<span style="background-color: purple; display: inline-block; width: 10px; height: 10px;"></span> Gantry locations considered within ZTV
<span style="border: 1px dashed blue; display: inline-block; width: 10px; height: 10px;"></span> 2.5km study area (500m interval offsets from Section 10)
<span style="border-bottom: 1px solid green; display: inline-block; width: 10px;"></span> Section 10 of route alignment considered within ZTV
<span style="border-bottom: 1px solid green; display: inline-block; width: 10px;"></span> Section 10 of overbridges, side roads and access roads considered within ZTV
<span style="border-bottom: 1px solid magenta; display: inline-block; width: 10px;"></span> Route alignment (Project) route not considered within ZTV

Zone of Theoretical Visibility (ZTV): (1m DSM Mitigation)
<span style="background-color: yellow; display: inline-block; width: 10px; height: 10px;"></span> Area identifying combined visibility of route alignment (includes gantries), vehicles, overbridge structures, side roads and access roads within Section 10

Extent of visibility from other highway sections of the Lower Thames Crossing route (excluding Vehicles) shown on Figure 7.14
<span style="background-color: lightblue; display: inline-block; width: 10px; height: 10px;"></span> Up to 2m high false cutting
<span style="border-bottom: 1px dashed black; display: inline-block; width: 10px;"></span> Up to 4m high false cutting

Notes:

- The Zone of Theoretical Visibility (ZTV) was created using Eari ArcGIS Visibility from the 1m DSM. This has been compiled from data received from National Highways.
- The ZTV illustrates the area of theoretical visibility of the proposed alignments of the Project and a view height of 2m and is limited to a 5km study area.
- The ZTV for vehicles travelling along route alignment and ZTV for overbridges, side roads, access roads have been run using an assumed maximum vehicle height of 4.5m.
- This figure shows theoretical visibility and therefore the worst case extent to which the Project could be visible from the surrounding landscape. The actual extent of visibility is likely to be substantially less than shown on this figure, in particular within urban areas where with the exception of settlement edges, outward views are typically screened by existing buildings or other features.

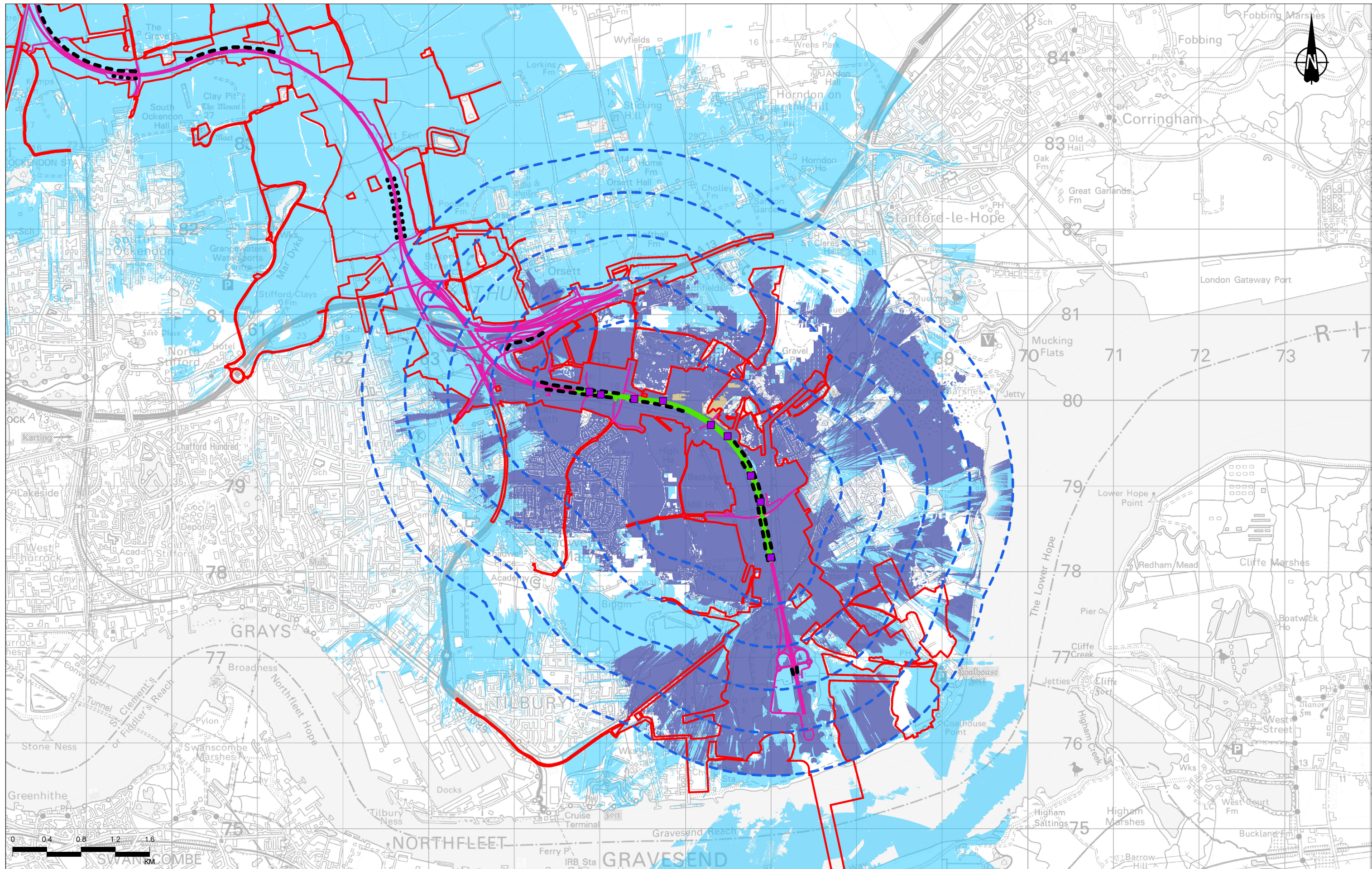


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Project: **LOWER THAMES CROSSING**

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Application Document Number	TR010032/APP/6.2	A3	P03
Scale	1:40,000		
Drawing Title	Figure 7.15 - ZTV (2.5km) - Lower Thames Crossing route Highway Section with Earthwork Mitigation		
Page	Page 17 of 36		
Drawing Number	HE540039-CJV-ELS-SZP_EGNE0000000-DR-LE-50034		





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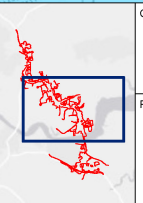
- Legend**
- Order Limits
  - Gantry locations considered within ZTV
  - 2.5km study area (500m interval offsets from Section 10)
  - Section 10 of route alignment considered within ZTV
  - Route alignment (Project) route not considered within ZTV

- Zone of Theoretical Visibility (ZTV): (1m DSM Mitigation)**
- Section 10 - route alignment
- Area from which 1% to 33% of Section 10 of the route alignment would be theoretically visible (including gantries)
  - Area from which 34% to 66% of Section 10 of the route alignment would be theoretically visible (including gantries)

- Extent of visibility from other highway sections of the Lower Thames Crossing route (excluding Vehicles) shown on Figure 7.14
- Up to 2m high false cutting
- Up to 4m high false cutting

**Notes:**

- The Zone of Theoretical Visibility (ZTV) was created using Eari Jacobs' Visibility tool. It is based on the combined 1m Digital Surface Model (DSM). This has been compiled from data received from National Highways.
- The ZTV illustrates the area of theoretical visibility of the proposed alignments of the Project and a view height of 2m and is limited to a 5km study area.
- The ZTV for vehicles travelling along route alignment and ZTV for overbridges/road crossings/roads have been run using an assumed maximum vehicle height of 4.5m.
- This figure shows theoretical visibility and therefore the worst case extent to which the Project could be visible from the surrounding landscape. The actual extent of visibility is likely to be substantially less than shown on this figure, in particular within urban areas where with the exception of settlement edges, outward views are typically screened by existing buildings or other features.



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