The three map books for the design refinement consultation contain plans of the proposed changes to the project under the following headings:

- Map book 1: General Arrangements (layout plans)
- Map book 2: land use plans
- Map book 3: engineering plans

These plans show the changes we have made since our supplementary consultation earlier this year and are published for the purposes of this consultation on the project. Following this consultation, we will consider the feedback received and use that to inform our DCO application, which we will submit to the Planning Inspectorate later this year.

The plans run from the A2 in the south to the M25 in the north. Identically numbered sheets in the different map books show the same area, for example sheet 3 shows the A2/LTC junction in map books 1 and 2.

**Map book 1: General Arrangements**
The General Arrangements show the proposed layout details of the project including:
- Permanent works; new roads, earthworks and roadside features
- Construction compounds
- Environment mitigation; landscaping and tree planting
- Utilities diversions
- Development boundary
- Open space and replacement land

**Map book 2: land use plans**
The land use plans show the areas we are seeking powers to compulsorily acquire land or permanent rights. They also show the land we require temporary rights to use in order to construct and operate the project. Areas we may need to purchase include the land required for the permanent works, temporary works and compensation land.

**Map book 3: engineering plans**
The drawings showing the change at Thong Lane over the LTC are plan and profile sheets 3A and 5. These plans show the highway details of the route in plan and profile (level above or below existing ground). The drawings are split into two views with the plan on the top and profile underneath.

The profile gives the road level in relation to existing ground at a given chainage*. An exaggerated scale is used in the profile to help show the differences in levels and gradients of the design. The profile also shows where existing roads and public rights of way cross over or under the route.

This map book also contains updated existing ground levels from chainage 5+500 to chainage 20+250 which were shown incorrectly in the supplementary consultation map book 3. The existing ground level figures were shown shifted north by 250 metres.

No other significant changes have been made to the plan and profile, junction arrangements or cross sections since that presented at supplementary consultation.

All levels are given in relation to the ordnance datum level**. The profile reference level might be different on each drawing.

* Chainage measures the distance along the route in metres

** Above Ordnance Datum level (AOD) is a measurement above mean sea level taken from a reference point at Newlyn in Cornwall.

**Large maps**
Large maps that cover a greater area have also been produced which detail the same information.

These are:
- Environmental constraints – 1 sheet
- Land use – 1 sheet
- General Arrangements – 6 sheets (larger coverage)
- General Arrangement (full route) – 1 sheet
- Aerial view of the proposed LTC route – 1 sheet
### Notes

1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

---

**Thong Lane green bridge**

**Proposed Levels**

<table>
<thead>
<tr>
<th>Chainage</th>
<th>L= 340.7</th>
<th>L= 304.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td>L= 3.5%</td>
<td>L= 3.5%</td>
</tr>
<tr>
<td>Ground Levels</td>
<td>L=340.7</td>
<td>L=304.6</td>
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<tr>
<td>Chainage</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**DATUM = +10.0**

**Tunnel Portal at CH 2+240**

**Removable barrier for emergency purposes**

---

**Thong Lane**

**LEGEND - PLAN**

- Structure
- Retaining wall
- EA: Emergency area

**LEGEND - PROFILE**

- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

---

**Lower Thames Crossing**

**Design Refinement Consultation**

**Client:**

**Project:**

**Proposals for Consultation**

**Plan and Profile Sheet 5**
MATCH LINE

Tunnel Portal at CH 6+477

Removable barrier for emergency purposes

Retaining walls to tunnel portal

Maintenance access road at 7.65m AOD for LTC flood protection

Proposed Levels

Horizontal

Vertical

Ground Levels

Chainage

LEGEND - PLAN

Structure

Retaining wall

EA - Emergency area

LEGEND - PROFILE

Route Vertical Alignment

Existing Ground Profile

Structure - Bridge

Structure - Underpass

LEGEND - PROFILE

Route Vertical Alignment

Existing Ground Profile

Structure - Bridge

Structure - Underpass

PROPOSALS FOR CONSULTATION

LOWER THAMES CROSSING

DESIGN REFINEMENT CONSULTATION

Client Project

PROPOSALS FOR CONSULTATION

PLAN AND PROFILE

SHEET 8

Notes:

1. Do not scale from this drawing.

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4. For scheme location refer to Plan and Profile General Plan.

5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical

LEGEND - PROFILE

LEGEND - PROFILE

LEGEND - PROFILE

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3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

**MAP LEGEND**
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

DATUM = -27.0

**NOTES**

**MAP LEGEND**
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

**NOTES**

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3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

**MAP LEGEND**
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

**NOTES**

1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

**MAP LEGEND**
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

**NOTES**

1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.
### Proposed Levels

#### Horizontal

<table>
<thead>
<tr>
<th>Chainage (m)</th>
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<tr>
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</tr>
<tr>
<td>8+750</td>
<td>11.7</td>
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<tr>
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<td>9+250</td>
<td>9.9</td>
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<td>9+750</td>
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<tr>
<td>11.5</td>
<td>11.5</td>
</tr>
<tr>
<td>11.5</td>
<td>11.5</td>
</tr>
</tbody>
</table>

#### Vertical

<table>
<thead>
<tr>
<th>Chainage (m)</th>
<th>Proposed Levels (m)</th>
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</thead>
<tbody>
<tr>
<td>8+500</td>
<td>11.7</td>
</tr>
<tr>
<td>8+750</td>
<td>11.7</td>
</tr>
<tr>
<td>9+000</td>
<td>10.6</td>
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<tr>
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<td>9.7</td>
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<td>9.7</td>
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<td>10+000</td>
<td>10.1</td>
</tr>
<tr>
<td>11.5</td>
<td>11.5</td>
</tr>
</tbody>
</table>

### Notes

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3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

---

**LEGEND - PLAN**

- Structure
- Retaining wall
- EA - Emergency area

**LEGEND - PROFILE**

- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

**MATCH LINE**

- Access to properties maintained by new road

**DATUM**

- 

**HORIZONTAL SCALE**

**VERTICAL SCALE**

**SCALE 1:5000 (A3) METRES**

**SCALE 1:250 (A1)**

**SCALE 1:500 (A3)**

---

**Lower Thames Crossing**

**Design Refinement Consultation**

**PROPOSALS FOR CONSULTATION**

**PLAN AND PROFILE SHEET 10**
1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.
LEGEND - PLAN
- Retaining wall
- EA - Emergency area
- Structure - Bridge
- Structure - Underpass

LEGEND - PROFILE
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

NOTES
1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal :10 vertical.
Rectory Road realignment

Works lie in with existing A13 3 lanes

A13 WB connection to new junction and A109

A13 WB 2 lanes
A13 EB 2 lanes

LTC slip road

Earthwork bund 2m above ground level

Access to the properties maintained by new road

LTC connection to A13 EB and Orsett Cock junction 2 lanes

Orsett Cock connection to A13 WB

Orsett Cock Junction

Stanford Road A1013 realignment

Orsett Cock

Provisions for consultation

For scheme location refer to Plan and Profile General Plan.

Profile uses an exaggerated scale of 1 horizontal : 10 vertical

All levels are in metres relative to the Ordnance Datum.

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2. All dimensions are in metres unless stated otherwise.
3. All levels are in metres relative to the Ordnance Datum.
4. For scheme location refer to Plan and Profile General Plan.
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PROPOSALS FOR CONSULTATION

LOWER THAMES CROSSING
DESIGN REFINEMENT CONSULTATION

PLAN AND PROFILE
SHEET 13

Access to the properties maintained by new road

NB - Northbound
WB - Westbound
EB - Eastbound
SB - Southbound
LEGEND - PROFILE
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

PROFILE
- Proposed Levels
- Horizontal
  - R=125.0
  - R=120.0
  - L=125.0
  - L=120.0
- Vertical
  - R=1030.0
- Ground Levels
- Change

NOTES
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5. Profile uses an exaggerated scale of 1 horizontal :10 vertical.
**LEGEND - PLAN**
- Structure
- Retaining wall
- EA - Emergency area

**LEGEND - PROFILE**
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

**NOTES**
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---
**Footpath FP 136 realignment**

---
**False cutting 2m above LTC**
### Proposed Levels

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<tr>
<th>Chainage</th>
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<th>Vertical</th>
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<tbody>
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4. For scheme location refer to Plan and Profile General Plan.
5. Profile uses an exaggerated scale of 1 horizontal : 10 vertical.

---

**LEGEND - PLAN**
- Structure
- Retaining wall
- EA - Emergency area

**LEGEND - PROFILE**
- Route Vertical Alignment
- Existing Ground Profile
- Structure - Bridge
- Structure - Underpass

---

**PROPOSALS FOR CONSULTATION**

**Footpath FP 151 realignment**

**LTC** NB 3 lanes

**LTC** SB 2 lanes

**M25** Underbridge

**Ockendon Road realignment**

**M25** 3 lanes NB

**M25** 4 lanes

**Density**

**LTC** NB 3 lanes

**LTC** SB 2 lanes

**M25** Carriageway

**False cut out 5m above LTC**

**Ockendon Road realignment**

**Profile**

**DATUM = +4.5**

**Proposed Levels**

<table>
<thead>
<tr>
<th>Horizontal</th>
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<th>CH 21+500</th>
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**Scale**

**Scale 1:250 (A1)**

**Scale 1:500 (A3)**

**Scale 1:5000 (A3)**

**PROPOSALS FOR CONSULTATION**

**Plan and Profile**

**Sheet 18**