national highways

Lower Thames Crossing

2.6 Works Plans Volume C Composite (sheets 21 to 49) (Tracked changes version)

APFP Regulation 5(2)(j)

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

Volume 2

DATE: September 2023 Deleted: August

DEADLINE: 4 Deleted: 3

Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/2.6

VERSION: 4.0 Deleted: 3

Revision history

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	20 December 2022	Response to advice provided under section 51 of the Planning Act 2008 by the Planning Inspectorate
3.0	24 August 2023	Deadline 3
4.0	19 September 2023	Deadline 4

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1 Introduction

1.1.1 This document is submitted to the Planning Inspectorate on behalf of the Secretary of State in relation to an application made by National Highways (the Applicant) under section 37 of the Planning Act 2008.

1.1.2 The Application is for the grant of development consent for the A122 Lower Thames Crossing. Should development consent be granted, the draft A122 (Lower Thames Crossing) Development Consent Order (Application Document 3.1) (the draft Order") will be made by the Secretary of State for Transport (subject to any modifications considered appropriate).

1.1.3 This document comprises part of the suite of application documentation and is included in the application to comply with Regulations 5(2)(j) and 5(4) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, which require:

5(2)(j) 'a works plan showing, in relation to existing features:

(i) the proposed location or (for a linear scheme) the proposed route and alignment of the development and works; and

(ii) the limits within which the development and works may be carried out and any limits of deviation provided for in the draft order.

5(4) Where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets.'

1.1.4 The purpose of the Works Plans is to illustrate the location and extent of the works for which development consent is sought as described in Schedule 1 of the draft Order (Application Document 3.1). The Applicant has sought to describe the works in Schedule 1 applying, whenever necessary, separate sub-work numbers to provide clarity.

1.1.5 In order to assist the interpretation of the Works Plans, the Applicant has prepared Composite sheets, which show all of the works for that sheet, and Utilities sheets, which show only the utility works from the Composite sheet.

1.1.6 It should be noted that, for consistency, the Applicant has prepared the Utilities sheets for the entire set.

1.1.7 As the Works Plans have been informed by and are part of the application documentation, they should be read alongside the other application documents. In particular, the Works Plans should be read alongside the following:

a. Schedule 1 of the draft Order (Application Document 3.1)

b. Land Plans (Application Document 2.2)

c. Rights of Way and Access Plans (Application Document 2.7)

d. Engineering Drawings and Sections Plans (Application Document 2.9)

e. Structures Plans (Application Document 2.13)

f. Temporary Works Plans (Application Document 2.17)

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1.1.8 Each sheet shows the relevant works numbers applicable within the area shown. Reference should be made to the next relevant sheet for details of works numbers beyond the cut lines. Other information on the Works Plans is shown beyond the cut lines for completeness and context.

1.1.9 The Works Plans show the Order Limits and the relevant local authority boundaries for clarity. In this plan set, 'the Order Limits' mean the limits of lands to be acquired or used, permanently or temporarily, within which the authorised development may be carried out (see article 2 of the draft Order (Application Document 3.1)).

1.1.10 The Works Plans show the centreline for each length of the proposed highway work or linear utility diversion, as well as the boundary for other non-linear works. The proposed highway works centreline is shown in a black dashed line and comprises the road works including streets, public rights of way and private means of access.

1.1.11 The proposed diversion or modification of overhead lines is shown in a purple solid line and the temporary diversion alignment is shown in a purple dashed line. The existing overhead lines to be removed as part of the works is shown in a grey dashed line. The proposed underground diversion alignment for gas is shown in an orange solid line and the proposed gas alignment to be removed is shown in orange dashed line. The proposed underground diversion alignment for multi-utilities is shown in blue solid line and the above ground multi-utility compounds are shown in a black box identified as 'substation SS'. The proposed temporary underground diversion alignment for multi-utilities is shown in light blue solid line.

1.1.12 Start and end points for utilities works are not shown as the centreline and the limits of deviation represent the areas in which the works can be carried out, covering disparate elements of the works which are connected but which do not have the same start and end point. However, for gas utilities works, the alignment line is supported by solid orange squares (at each end) representing the tie-ins into the existing network, where applicable. Where there is no tie-in to the existing gas network no solid orange square is shown. For the overhead lines works, the alignment line includes (along its extent) purple border squares for new permanent pylons, purple dashed border squares for new temporary pylons, grey dashed border squares for existing pylons to be removed and green border squares for existing pylons to be retained. Additional power apparatus (such as poles) are not shown.

1.1.13 The major proposed structures are highlighted with a black solid box and include structures along the Project mainline and the ground protection tunnel. All these structures have been assigned their own work number, described in Schedule 1 of the draft Order (Application Document 3.1).

1.1.14 The Works Plans show the areas proposed in the environmental design as new areas to provide mitigation or compensation for the impacts of the Project as black arrow shaded areas. The areas necessary for floodplain compensation are shown as a blue dotted shaded area.

1.1.15 The Works Plans indicate the location of temporary construction compounds and working sites, listed as numbered works in Schedule 1. A separate set of Temporary Works Plans (Application Document 2.17) has been prepared to

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show the location and extent of temporary works, including temporary roads for construction access.

1.1.16 The design is shown in the background on the Works Plans for illustrative purposes and specifically to provide context and aid understanding of the works. As indicated in the legend, the proposed structures are shown as two solid grey lines; this includes the proposed bridges, viaducts, overbridges, underbridges and retaining walls. It should be noted that proposed bridges, viaducts, overbridges and underbridges are described as a sub-work of a highways linear work in Schedule 1 of the draft Order (Application Document 3.1). For other elements of the works that cannot be separately distinguished from a work or broken down, such as retaining walls, highway drainage ditches and swales, embankments and cuttings earthworks, the Applicant has included these in the list of ancillary works as described in Schedule 1 of the draft Order (Application Document 3.1).

1.1.17 The proposed drainage culverts are represented in a specific way, as shown in the legend, in an approach consistent with the General Arrangement Plans (Application Document 2.5).

1.1.18 The commencement and termination of the proposed highways linear works are graphically represented on the plan by different black markers in the shape of bowties (one solid, one hollow). The Applicant has made every effort to represent the bowtie entirely within the Order Limits boundary wherever possible but due to the size of this graphic, this is sometimes unachievable. It is important to note that the start and end points of the works are all within the Order Limits and are defined by the reference points listed in Schedule 1 of the draft Order (Application Document 3.1) and shown in Rights of Way and Access Plans (Application Document 2.7).

1.1.19 Article 6 of the draft Order (Application Document 3.1) provides for a lateral deviation from the lines or situations shown on the Works Plans to the extent of the defined limits of deviation. This is to provide the Applicant with a limited and proportionate degree of flexibility to allow for detailed design development. The vertical limits of deviation are described in Article 6 of the draft Order (Application Document 3.1).

1.1.20 The highway works lateral limits of deviation are shown as areas of shaded green on the Composite sheets and the limits of deviation for utility works are indicated by striped areas on the Composite and Utilities sheets as: purple for overhead electricity lines works, orange for gas works, blue for underground multi-utility works and light blue for temporary overhead and multi-utility works. Where relevant, the lateral limits of deviation shown in the Works Plans have been determined considering a range of factors, including earthworks, structures and drainage features. The lateral limits of deviation for tunnels works, such as the tunnel portal structures (south and north), the bored tunnels and the tunnel service buildings are show as part of the highways lateral limits of deviation and also shown in detail in the Tunnel Limits of Deviation Plans (Application Document 2.15).

1.1.21 Further information about the limits of deviation is provided in the Introduction to the Application (Application Document 1.3). The information shown on the plans is for illustrative purposes only to show the proposed design of the Project and

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would be subject to detailed design. Detailed design would be in accordance with the extent of the defined limits of deviation provided in the draft Order and any approval required under the requirements set out in Schedule 2 of the draft Order (Application Document 3.1).

1.1.22 It should be recognised that there are some instances where the extent of a work shown in the Works Plans and described in Schedule 1 of the draft Order (Application Document 3.1) may differ from the extents provided elsewhere in the draft Order, namely in Schedules 3 and 4 (Application Document 3.1). This is because, in some cases, new public rights of way may be created by a combination of works or the creation of a new public rights of way may be divided into several works. The corresponding commencement and termination points of all the works shown in the Works Plans have a corresponding reference point in the Rights of Way and Access Plans (Application Document 2.7).

1.1.23 To ensure sufficient detail and clarity of information, the Works Plans (sheets 1 to 49) have been prepared at a scale of 1:2500. The key plan uses a smaller scale than that prescribed in Regulation 5(3) of the 2009 Regulations so that the Project can be represented in a single sheet plan.

1.1.24 The Applicant has adopted the same approach for the Works Plans as has been used for the following:

a. Land Plans (Application Document 2.2)

b. Crown Land Plans (Application Document 2.3)

c. Special Category Land Plans (Application Document 2.4)

d. General Arrangement Plans (Application Document 2.5)

e. Rights of Way and Access Plans (Application Document 2.7)

f. Streets Subject to Temporary Restrictions of Use Plans (Application Document 2.8)

g. Traffic Regulation Measures Plans (Application Document 2.10)

h. Drainage Plans (Application Document 2.16)

i. Temporary Works Plans (Application Document 2.17)

j. Hedgerows and Tree Preservation Order Plans (Application Document 2.18)

1.1.25 The information contained on each sheet of the Works Plans corresponds with the information shown on each sheet of the aforementioned sets. This is intended to help interested parties understand the inter-relationship between the different sets of plans and to help illustrate the design of the Project more clearly.

1.1.26 It is important to note that there are locations within the DCO boundary where no works are shown on the Works Plans. A number of reasons could account

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for this, for example, the land may be required temporarily to provide sufficient working space during construction.

1.1.27 This plan set uses a consistent key applicable to the plan set as a whole, rather than being tailored to each individual sheet. This means that there may be some items shown in the key that are not on a given sheet.

1.1.28 To ensure that the file size of this document does not exceed the 50MB limit prescribed by the Planning Inspectorate, the set has been split into six volumes: three separate volumes (volume A contains the key plan, volume B contains the initial sheets 1 to 20 and volume C contains sheets 21 to 49 for the composite plans) and three further separate volumes (volumes A, B and C) for the utilities works.

1.1.29 These plans have been updated for Deadline 3 to include the minor amendments as advised by the Examining Authority in Rule 9 [PD-022].

1.1.30 These plans have been updated for Deadline 4 to include the proposed changes MRC01, MRC02 and MRC03 following the procedural decision made by the Examining Authority [PD-031].

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2 Schedule of Plans included in this application document

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UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Work No. MU27

Work No. MU27

Work No. CA5

Work No. MUT4

Sheet 21
Sheet 20

Sheet 21
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0 50 100 150 200

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

NOTES:

1. The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
2. These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1), the Land Plans (application document reference TR010032/APP/2.2) and the Engineering Drawings and Sections (application document reference TR010032/APP/2.9).
3. Proposed works are shown adjacent to the Order Limits to provide greater clarity of the extent of the work but could extend to the Order Limits as well.
4. The definition of streets is included in the Development Consent Order (application document reference TR010032/APP/3.1).

LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 21 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20018

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20018.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

East Tilbury Marshes

East Tilbury

Work No. E16

Work No. MUT6

Work No. MUT11

Work No. CA5

Work No. 5T

Work No. 5R

Work No. E17

Work No. 5S

Work No. 5S

Work No. 5S

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Barvills Solar Farm

Thomas Rose Memorial Park

East Tilbury Primary School and Nursery

Trafalgar House

Balancing Pond

Play Area

Allotment Gardens

Conveyors

Landfill (Deposit)

Battery (historic)

Pond

Gravel Pit Cottages

Goshems Farm

Barvills Farm

Orchard House

Buckland

Northern

St Cedds Cottages

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	19/09/2023	Deadline 4	MS	RO	ASB

NOTES:

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2. These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1), the Land Plans (application document reference TR010032/APP/2.2) and the Engineering Drawings and Sections (application document reference TR010032/APP/2.9).
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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size A1	Revision P02
Application Document Number	TR010032/APP/2.6	Scale 1:2500	

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 22 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20019

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20019.dwg

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB
P03	S8	24/08/2023	Deadline 3	MS	RO	ASB
P04	S8	19/09/2023	Deadline 4	MS	RO	ASB

NOTES:

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LEGEND:

- Order Limits
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- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Brentwood, Basildon, Grays, Gravesend, Rochester, Addington, Maidstone

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Examination

Original Size: A1 | Revision: P04

Application Document Number: TR010032/APP/2.6

Scale: 1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 23 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20020

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20020.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Sheet 27
Sheet 24

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YYJ125
ZB013
Work No. MU37
Work No. OH6
Work No. OH7
PAB17
Work No. 6A
Work No. 6C
PAB17R
Work No. 6K
PAB16R
Work No. OH5
PAB16
Work No. 6F
Work No. OHT2
Work No. MU36
Work No. 6E
Work No. OH4
PEA17
ZJ015
Work No. OHT3
Work No. OH3
Work No. E20
Work No. MU28
PEA16T
PEA16 &
PEA16R
ZJ014
Work No. MUT6
Work No. OH3
Work No. MU36
PAB15R
Work No. OH4
PAB15
ZJ014T
Work No. 6E
Work No. MU35
Work No. MU36
Work No. MU34
Work No. MU36
ZJ014R
SS8
PAB14R
Work No. MU36
Work No. 6J
Work No. MUT6
Work No. 6B
Work No. MU35
PEA15
PAB14
Work No. MU35
Work No. MU34
ZJ013
Work No. 5W
Work No. 6B
Work No. 6B
Work No. MU36
Work No. MU35
Work No. 6B
Work No. 6I
ZJ013T
Work No. MU36
Work No. MU36
Work No. MU34
Work No. MU28
Work No. 6A
PEA14
Work No. E19
Work No. ULH11
PAB13R
PAB13
Work No. OHT2
Work No. ULH12
Work No. OH3

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB
P03	S8	19/09/2023	Deadline 4	MS	RO	ASB

NOTES:

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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Examination
Original Size: A1
Revision: P03
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 24 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20021

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20021.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Sheet 26
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Work No. MUT14

Work No. MUT14

Work No. 6B

Work No. 6B

Work No. MU35

Sheet 25
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Sheet 25
Sheet 24

Sheet 25
Sheet 23

Sheet 25
Sheet 23

0 50 100 150 200

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

NOTES:

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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
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- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P01
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 25 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20022

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20022.dwg

Sheet 29
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Work No. 7D

Work No. MU44

Work No. 7T

Sheet 29
Sheet 26

Sheet 26
Sheet 28

Sheet 26
Sheet 28

Work No. MUT14

Sheet 26
Sheet 25

Sheet 26
Sheet 25

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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- Area excluded from Order Limits
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- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

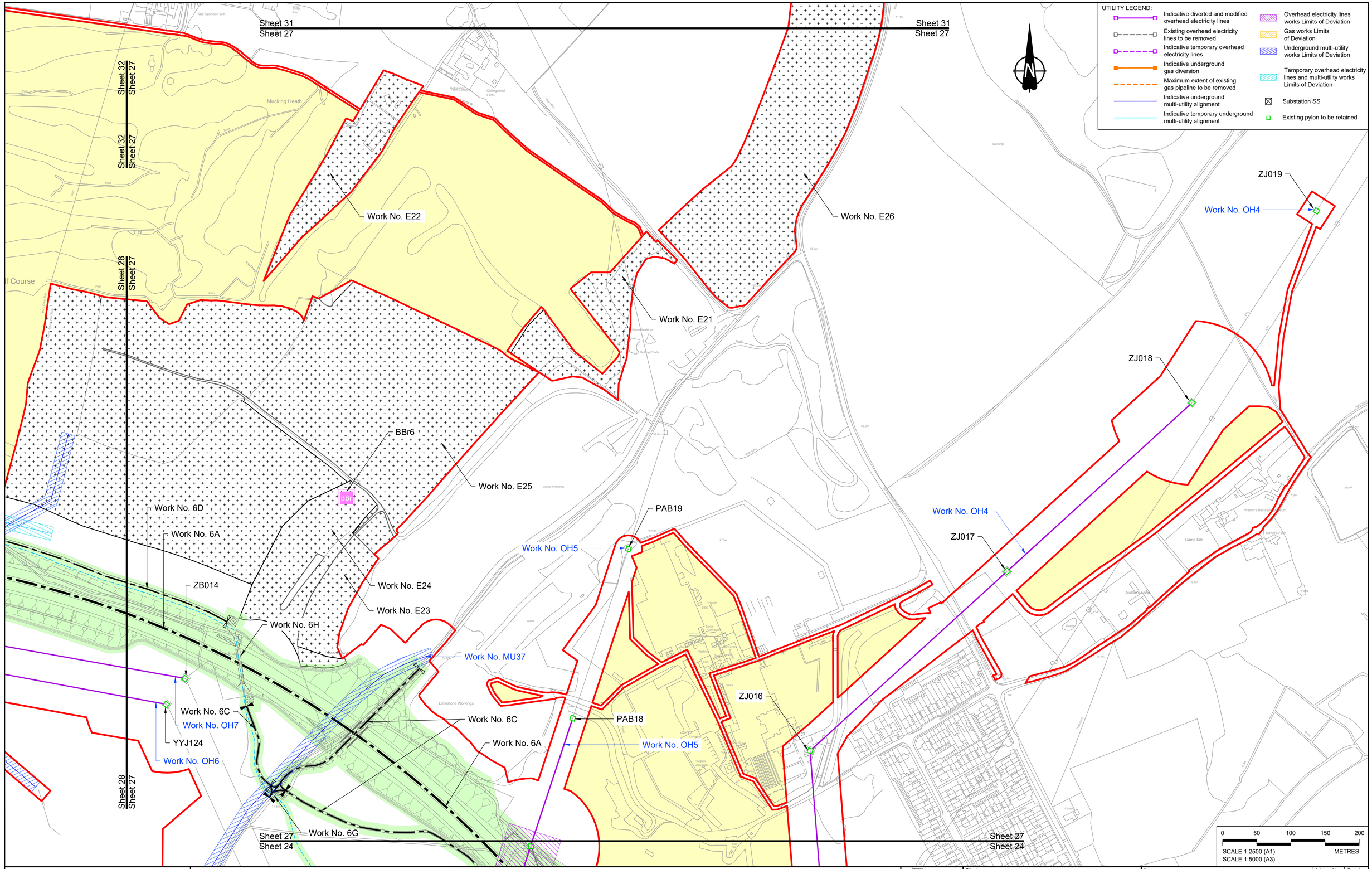
Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 26 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20023

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20023.dwg



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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- Construction Area - Main Works Compound
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- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

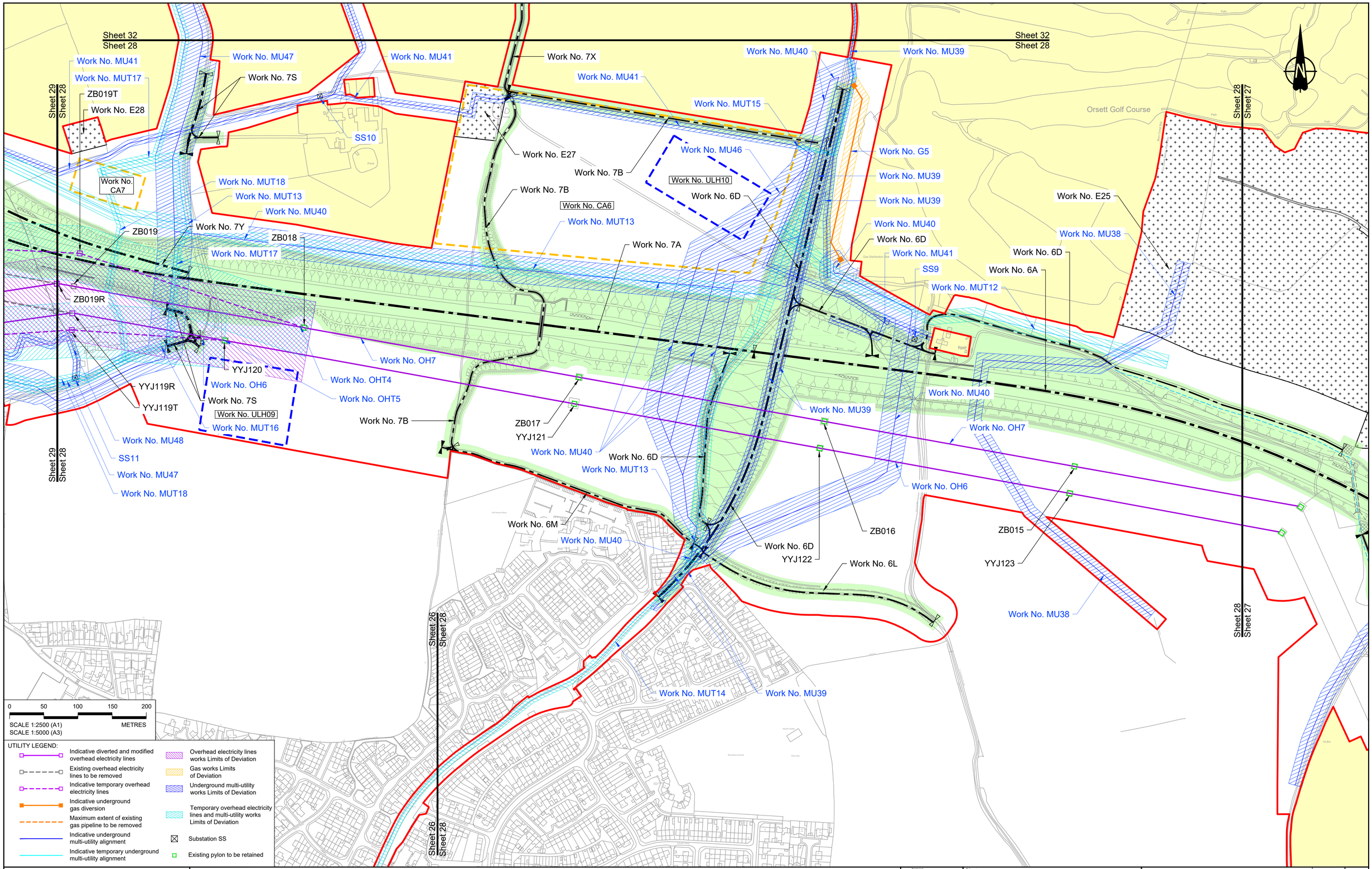
Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 27 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20024

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20024.dwg



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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- Construction Area - Main Works Compound
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- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

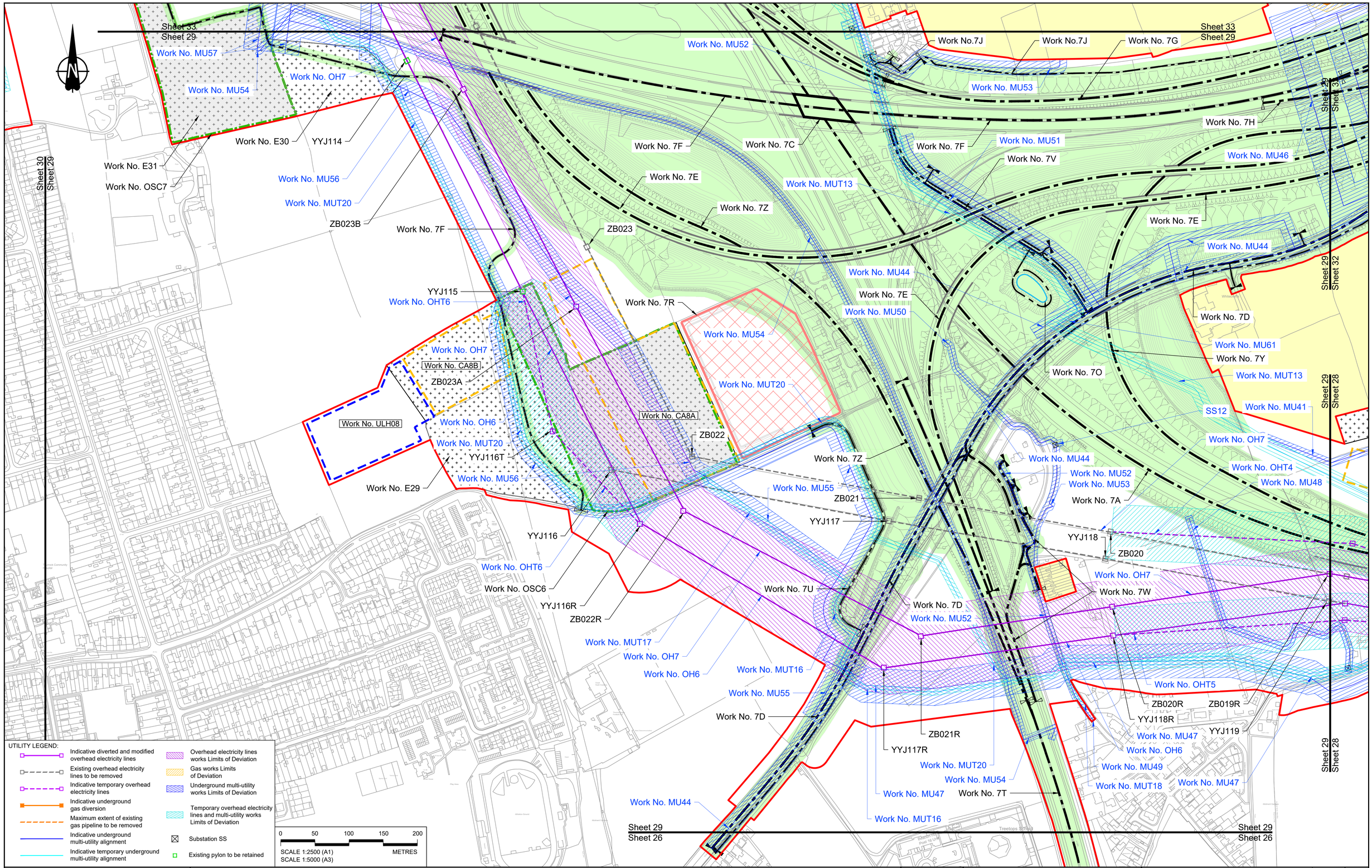
Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P02
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 28 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20025

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20025.dwg



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	DCO Application	MS	RO	ASB

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- Construction Area - Main Works Compound
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- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application

Original Size: A1

Revision: P02

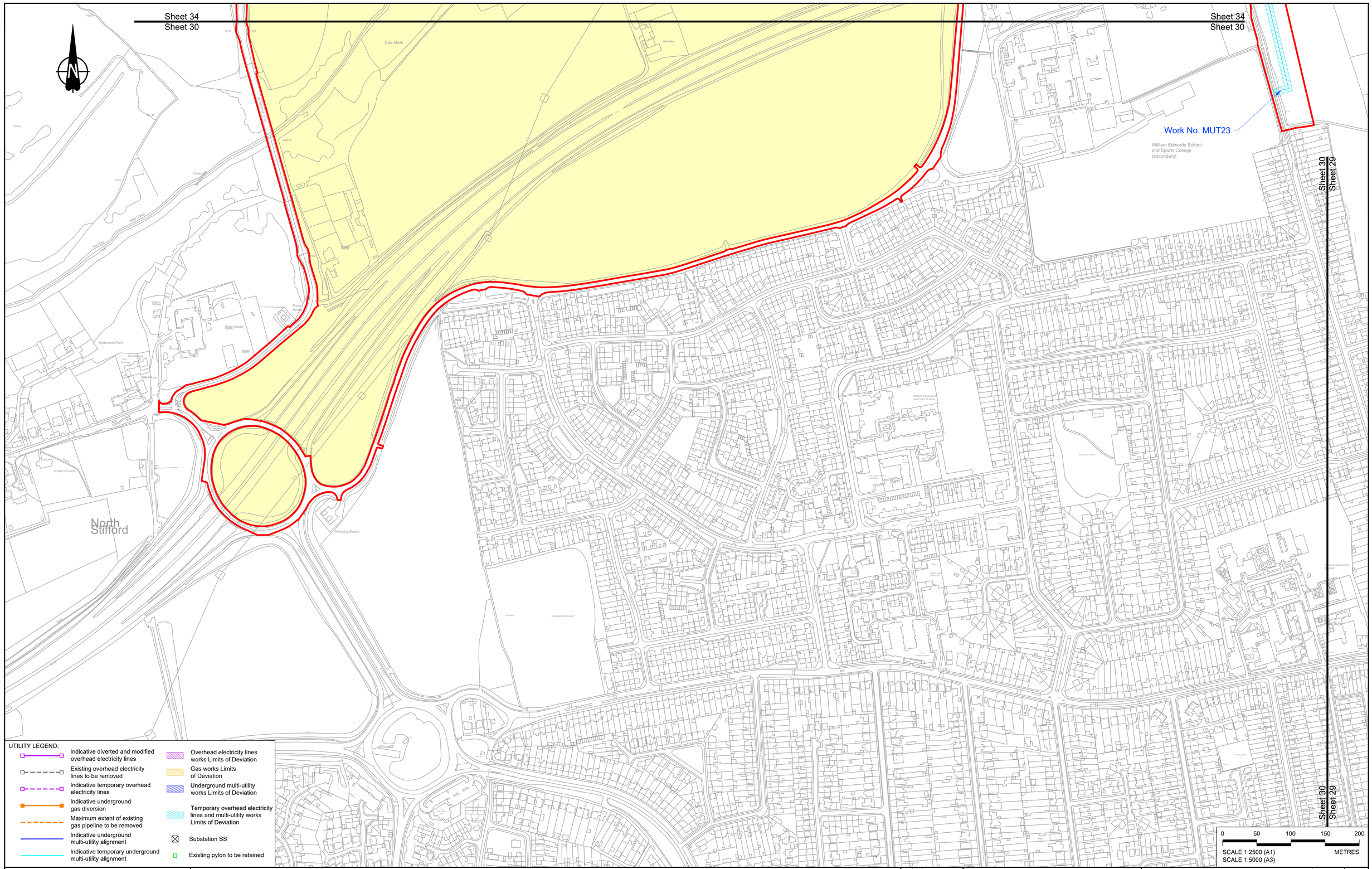
Application Document Number: TR010032/APP/2.6

Scale: 1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 29 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20026

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20026.dwg



UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

NOTES:

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- Area excluded from Order Limits
- Flood compensation area
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- Commencement and termination of linear work
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- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client

national highways

Project

LOWER THAMES CROSSING

Status	DCO Application
Application Document Number	TR010032/APP/2.6
Original Size	A1
Revision	P01
Scale	1:2500
Drawing title	WORKS PLANS REGULATION 5(2)(j) SHEET 30 - COMPOSITE
Drawing Number	HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20027

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20027.dwg

Work No. 7F

Work No. G6

Work No. G6a

Work No. G6

Work No. MU42

Work No. ULH06

Work No. E26

Sheet 32
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Sheet 31
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Sheet 31
Sheet 27

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Appr'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 31 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20028

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20028.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Work No. MUT19
Work No. 7J
Work No. G6
Work No. MUT19
Work No. MU45
SS15
Work No. 7F
See Introducion paragraph 1.1.12.
Work No. 7F
Work No. ULH06
Work No. 7F
Work No.7J
Work No.7I
Work No.7G
Work No. G6
Work No. 7G
Work No. MU46
Work No. G6b
Work No. MU39
Work No. MUT15
Work No. MUT19
Work No. MU44
SS14
Work No. 7H
Work No. 7H
Work No. MU43
Work No. MU43
Work No. 7D
Work No. 7E
Work No. MU44
Work No. 7H
Work No. MU41
Work No. 7E
Work No. 7Y
Work No. MU43
Work No. MU46
Work No. MU47
Work No. MU44
Work No. MUT17
Work No. MU41
Work No. MUT15
Work No. 7X
Work No. MU39

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0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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- Commencement and termination of linear work
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- Construction Area - Main Works Compound
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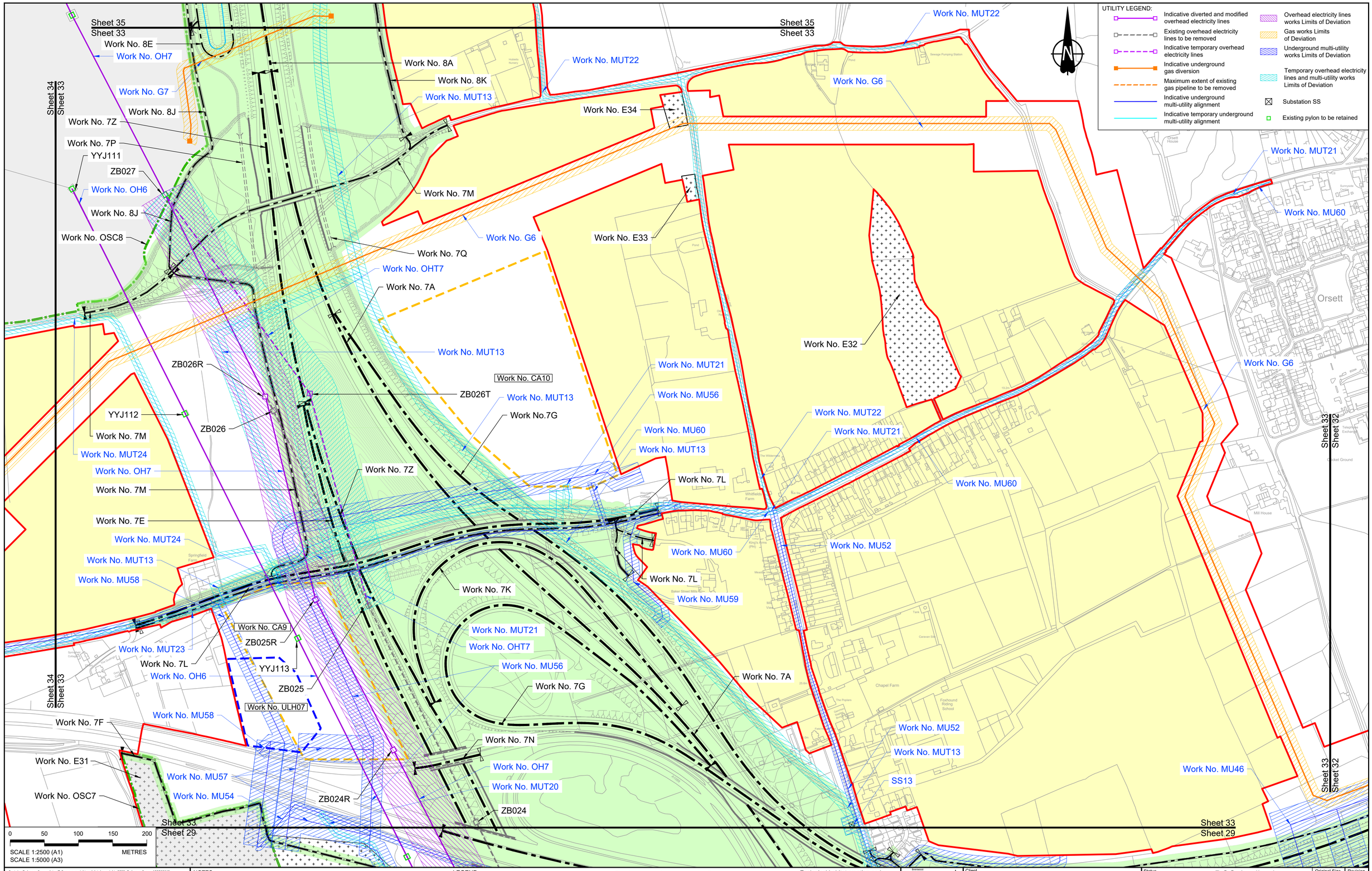
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/2.6
Scale: 1:2500
Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 32 - COMPOSITE
Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20029

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20029.dwg



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P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 33 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20030

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20030.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

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Sheet 36 Sheet 34
Sheet 35 Sheet 34
Sheet 35 Sheet 34
Sheet 34 Sheet 33
Sheet 34 Sheet 33
Sheet 34 Sheet 30
Sheet 34 Sheet 30

Work No. MUT24
Work No. MUT24
Work No. OH6
YYJ110
Work No. OSC8
Work No. G6
Work No. ULH05
Work No. MU60
Work No. MU60
Work No. MUT23

Water
Pond
Grangewaters
Outdoor Activity Centre
Mardyke Country Park
Landing Stage
Car Park
Ponds
Stifford Clays
Stifford Clays Farm Cottage
Cats Mede
Mar Dyke
Ward Bay
Gas Distribution Station
A 13
Post

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.6	A1	P02
		Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 34 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20031

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20031.dwg

Sheet 38
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Sheet 37
Sheet 35

Sheet 37
Sheet 35

Orsett Fen

Sheet 36
Sheet 35

Work No. 8J

Work No. E36

Work No. OH7

ZB031

Work No. FCA3

ZB030

BBr8

Work No. 8G

Work No. 8A

Work No. 8G

Work No. E36

Work No. FCA2

Work No. 8K

Work No. 8B

Work No. CA11

Work No. E37

Work No. E35

BBr7

Work No. MUT25

Work No. MUT25

Work No. MUT22

Work No. MUT13

Work No. 8F

Work No. 8S

Work No. 8F

Work No. 8K

Work No. MUT22

Work No. E36

ZB029

Work No. OH7

Work No. 8A

Work No. 8J

Work No. 8E

Work No. OSC8

Work No. MUT24

ZB028

Work No. 8E

Work No. G7

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Sheet 35
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Sheet 35
Sheet 34

Sheet 35
Sheet 33

0 50 100 150 200

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
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- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P02
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 35 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20032

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20032.dwg

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Work No. E38

Work No. MUT24

Sheet 36
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Sheet 36
Sheet 35

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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- Construction Area - Main Works Compound
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- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 36 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20033

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20033.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
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- Maximum extent of existing gas pipeline to be removed
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- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Stringcock Fen

Work No. E39

Work No. OSC9

Work No. 8K

Work No. E36

Work No. FCA2

Work No. E37

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Sheet 35

Orsett Fen

Castle's Gorse

Parker's Farm

Parker's Cottages

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 37 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20034

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20034.dwg

UTILITY LEGEND:

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- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
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- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Sheet 41
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Work No. MUT26
Work No. MU65
Work No. CA13
Work No. MUT27
Work No. 8V
Work No. 8M
Work No. MU64
Work No. OH7
ZB035
Work No. MU63
Work No. 8C
Work No. 8M
Work No. 8J
See Introducion paragraph 1.1.12.
Work No. G8
Work No. MU63
Work No. E36
ZB034
Work No. ULH04
Work No. 8P
Work No. 8A
Work No. 8A
Work No. G8
Work No. 8I
Work No. 8I
Work No. 8H
Work No. 8V
Work No. MU65
Work No. MU62
Work No. OHT8
ZB033R
Work No.8O
Work No. FCA4
Work No. 8L
Work No. OSC9
Work No. 8H
Work No. 8C
Work No. MU62
Work No. MU61
Work No. 8U
Work No. E36
Work No. FCA2
Work No. 8B
Work No. 8K
Work No. FCA3
Work No. 8T
ZB033
Work No. E40
Work No. OH7
Work No. 8L
ZB033T
Work No. OHT8
Work No. 8J
Work No. FCA4
Work No. OH7
ZB032
Work No. E36
Sheet 38
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Sheet 35

0 50 100 150 200
METRES
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)

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- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 38 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20035

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20035.dwg

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Work No. 9W
Work No. 9M
Work No. CA14
Work No. 9W
Work No. 8D
Work No. 8N
Work No. MUT28
London Borough of Havering
Thurrock Council
Work No. MUT29
Work No. E41
Work No. 9B
Work No. MU71
Work No. MU72
Work No. G9
Work No. MU70
Work No. 8D
Work No. MUT28
Work No. MUT26
See Introducion paragraph 1.1.12.
See Introducion paragraph 1.1.12.
Work No. G9
Work No. MU68
Work No. MUT27
Work No. 8R
Work No. 8D
Work No. 8R
Work No. 8D
Work No. 8V
Work No. 8M
Work No. CA13
Work No. G8
Work No. MU64
Work No. 8A
Work No. 8Q
Work No. 8A
Work No. 8D
Work No. 8D
Work No. MU67
Work No. MU69
Work No. 8Q
Work No. 8D
Work No. MU68
Work No. MU66
Work No. 8D

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Sheet 42
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Sheet 40
Sheet 39

Sheet 39
Sheet 36
Sheet 39
Sheet 36

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

NOTES:

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4. The definition of streets is included in the Development Consent Order (application document reference TR010032/APP/3.1).

LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P02
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 39 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20036

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20036.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1) METRES
SCALE 1:5000 (A3)

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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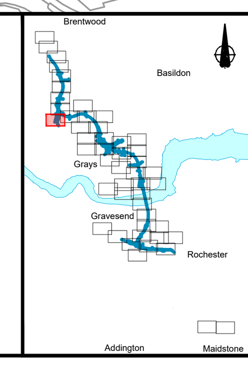
LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve



Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application

Application Document Number: TR010032/APP/2.6

Original Size: A1 | Revision: P02 | Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 40 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20037

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20037.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

ZB039
ZB038
ZB037
ZB036
Work No. OH7
Work No. E42
Work No. E36
Work No. MUT26
Work No. MU63
Work No. 8M
Work No. 8J

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Sheet 41 Sheet 38
Sheet 41 Sheet 39

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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LEGEND:

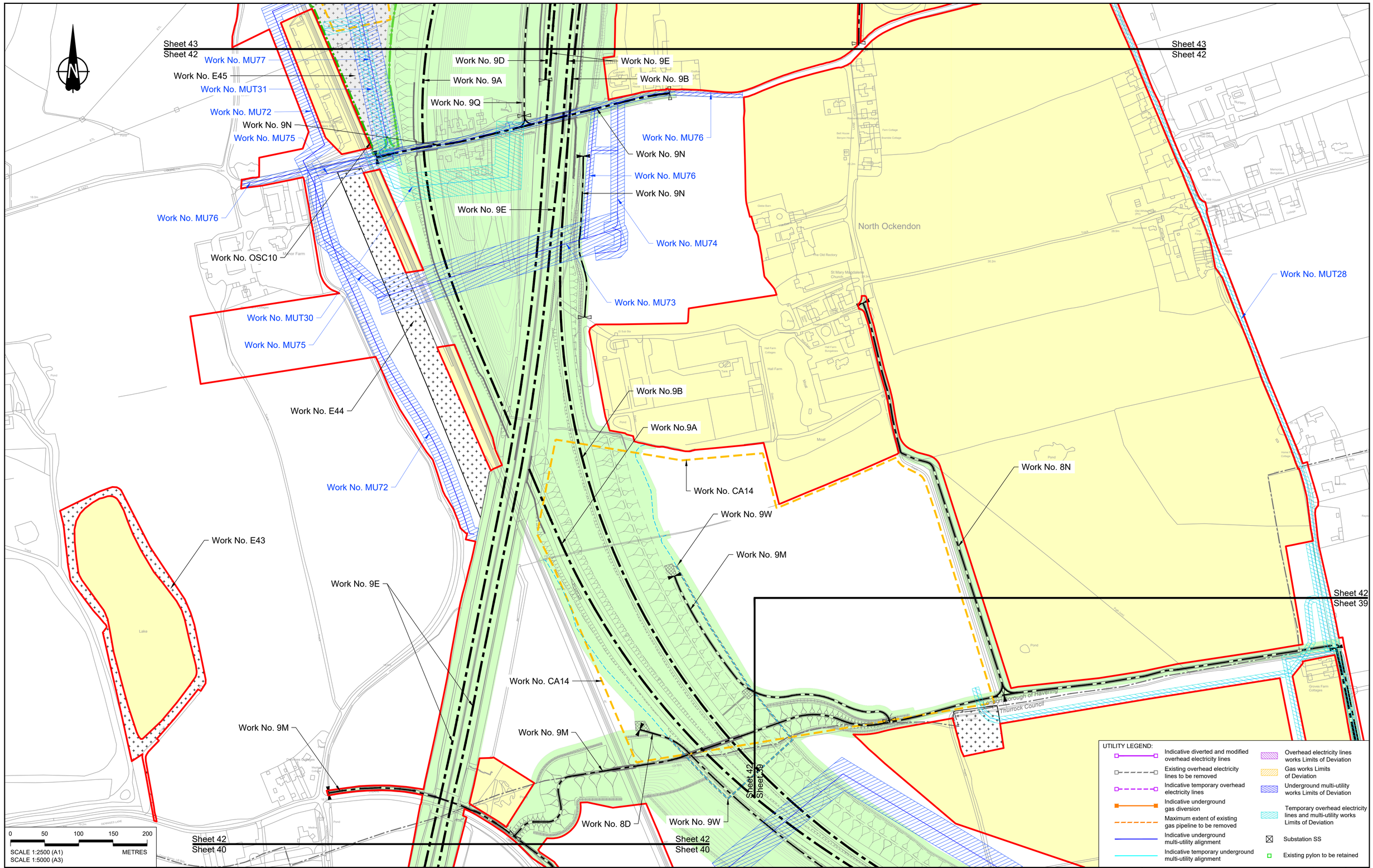
- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P01
Application Document Number: TR010032/APP/2.6
Scale: 1:2500
Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 41 - COMPOSITE
Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20039

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20039.dwg



UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
		A1	P01
Application Document Number	TR010032/APP/2.6	Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 42 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20040

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20040.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

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Sheet 43

Work No. 9D
Work No. 9C
Work No. 9O
Work No. E46
Work No. MU72
Work No. OH8
Work No. MU78
Work No. 9R
Work No. 9E
PB03
PB04
PB05R
PB05
PB06R
PB06
PB07
BBr9
BBr
Work No. 9A
Work No. 9X
Work No. 9Q
Work No. 9B
Work No. E45
Work No. OSC10
Work No. CA15A
Work No. MUT31
Work No. MU77
Work No. MUT28

Sheet 43
Sheet 42

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 43 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20041

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20041.dwg

Sheet 45
Sheet 44

Sheet 45
Sheet 44

Work No. 9D
Work No. MU86
Work No. 9P
Work No. MU84
Work No. 9D
Work No. MU83
Work No. 9T
Work No. MU82
Work No. MU80
Work No. E48
Work No. MU72
Work No. 9D
Work No. OSC11
Work No. FCA6
Work No. FCA7
Work No. 9O

Work No. 9U
Work No. MU81
Work No. 9P
Work No. 9E
Work No. MU81
Work No. 9E
Work No. MU83
Work No. MU82
Work No. MU81
Work No. MU80
Work No. MU79
Work No. MU72
Work No. 9S
Work No. 9E
Work No. E47
Work No. 9S
Work No. 9X
Work No. FCA5
Work No. 9R

Brentwood Borough Council
London Borough of Havering

Sheet 44
Sheet 43

Sheet 44
Sheet 43

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 44 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20042

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20042.dwg

Sheet 46
Sheet 45

Work No. 9L
Work No. E49
Work No. 9E
Work No. 9I
Work No. MU88
Work No. MU89
Work No. 9K
Work No. MU91
Work No. 9Z
Work No. MU90
Work No. 9P
Work No. 9J
Work No. 9Z
Work No. 9I
Work No. 9J
Work No. MU91
Work No. 9Y
Work No. 9H
Work No. MU88
Work No. 9G
Work No. 9D
Work No. 9F
Work No. 9G
Work No. 9P
Work No. 9F
Work No. MU87
Work No. 9D
Work No. 9P
Work No. MU86
Work No. MU85
Work No. 9E
Work No. MU87
Work No. CA16
Work No. 9U
Work No. MUT32
Work No. MU85
Work No. 9P
Work No. 9U
Work No. MU87
Work No. MU86

Sheet 45
Sheet 44

Sheet 46
Sheet 45

0 50 100 150 200
METRES
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
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- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

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- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
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- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P02
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS REGULATION 5(2)(j) SHEET 45 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20043

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20043.dwg

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
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- Indicative temporary underground multi-utility alignment
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- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

Sheet 47
Sheet 46

Work No. E51
Work No. ULH01
Work No. ULH02
Work No. G10
Work No. 9E
Work No. MU92
Work No. E52
Work No. E50
Work No. 9V
Work No. 9K
Work No. E49
Work No. 9J
Work No. E50
Work No. 9E
Work No. 9L
Work No. 9K

Sheet 46
Sheet 45

Sheet 46
Sheet 45

Folkes Lane Woodland

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
0 50 100 150 200
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application
Original Size: A1
Revision: P01
Application Document Number: TR010032/APP/2.6
Scale: 1:2500

Drawing title:
WORKS PLANS
REGULATION 5(2)(j)
SHEET 46 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20044

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20044.dwg

Sheet 48
Sheet 47

Sheet 48
Sheet 47

Great Warley

Work No. 9E

Work No. E52

Work No. OSC12

Work No. E50

Work No. E51

Work No. ULH01

Sheet 47
Sheet 46

Sheet 47
Sheet 46

Brentwood Borough Council/
London Borough of Havering

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
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- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB
P02	S8	13/12/2022	Revision following S51 advice	MS	RO	ASB

NOTES:

1. The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
2. These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1), the Land Plans (application document reference TR010032/APP/2.2) and the Engineering Drawings and Sections (application document reference TR010032/APP/2.9).
3. Proposed works are shown adjacent to the Order Limits to provide greater clarity of the extent of the work but could extend to the Order Limits as well.
4. The definition of streets is included in the Development Consent Order (application document reference TR010032/APP/3.1).

LEGEND:

- Order Limits
- Linear Work Centreline (including streets)
- Local Authority boundary
- Highway Work (includes structures) Limits of Deviation
- Area excluded from Order Limits
- Flood compensation area
- Culvert
- Bridge/structure
- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P02
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 47 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20045

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20045.dwg

Sheet 49
Sheet 48

Sheet 49
Sheet 48

Work No. 9E

Brentwood Borough Council
London Borough of Havering

Sheet 48
Sheet 47

Sheet 48
Sheet 47

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
0 50 100 150 200
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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- Culvert
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- Watercourse diversion work centreline
- Infiltration basin, detention basin or retention pond boundary
- Major structure
- Commencement of linear work
- Commencement and termination of linear work
- Termination of linear work
- Bat Barn structure
- Construction Area - Utilities Logistic Hub
- Construction Area - Main Works Compound
- Ecological habitat creation and receptor site for protected species
- Temporary ecological habitat
- Open space provision, replacement open space or replacement common land
- Travellers site
- Water inlet with self-regulating valve

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 48 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20046

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20046.dwg

Brentwood Borough Council
London Borough of Havering

Work No. 9E

Sheet 49
Sheet 48

Sheet 49
Sheet 48

UTILITY LEGEND:

- Indicative diverted and modified overhead electricity lines
- Existing overhead electricity lines to be removed
- Indicative temporary overhead electricity lines
- Indicative underground gas diversion
- Maximum extent of existing gas pipeline to be removed
- Indicative underground multi-utility alignment
- Indicative temporary underground multi-utility alignment
- Overhead electricity lines works Limits of Deviation
- Gas works Limits of Deviation
- Underground multi-utility works Limits of Deviation
- Temporary overhead electricity lines and multi-utility works Limits of Deviation
- Substation SS
- Existing pylon to be retained

0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	MS	RO	ASB

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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Application
Original Size	A1
Revision	P01
Application Document Number	TR010032/APP/2.6
Scale	1:2500

Drawing title: WORKS PLANS
REGULATION 5(2)(j)
SHEET 49 - COMPOSITE

Drawing Number: HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20047

HE540039-CJV-BOP-SZZ_GN000000_-DR-CX-20047.dwg

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