

**National Asset Delivery  
Technical Surveys and Testing**

**Site Information for  
HE605181 - A43 MP34/5A Syresham  
Bypass Cutting Repair**

## 1 SITE INFORMATION

### Site boundary, extents and access arrangements

Figure 1 below shows the site location. The site is centred on the A43 MP34/5 NB. The area to be surveyed extends from NGR 461434, 240357 to 461584, 240427 and comprises the northbound carriageway, verge and earthwork for the ground investigation and topographic surveys.

For the FADDs survey the works will include the southbound carriageway, verge and earthwork as shown in drawing HE605181-KIER-HGT-A43\_NB\_MP34\_5A-DR-CE-604.

Figure 1: Location Plan



Some surveys may encroach onto third party land that is outside Highways England's boundary and so Surveying Contractors should expect discussion and communication with such land-owners.

Within the extents, the A43 is a 70mph dual carriageway with no hard shoulder.

For collaborative purposes, the scheduled survey types envisaged at the time of tender are:

Survey category	Description
Asbestos	To establish whether asbestos is present in the soil or in the construction materials.
Drainage	Requirements: <ul style="list-style-type: none"> <li>Establish the condition of the filter drain at the toe and the ditch at the crest of the slope</li> <li>the filter drain in the NB verge</li> <li>gullies and connecting pipework in the NB verge ditch at the crest of the earthwork adjacent to the northbound carriageway</li> <li>survey the outfalls NB</li> <li>survey the outfall into the pond/stream SB</li> </ul>
Environmental	To investigate impacts of scheme proposals on the environment
Geotechnical	To establish specific ground conditions & to ensure sufficient geotechnical information is obtained to design a remedial solution to the earthwork defect

Survey category	Description
Topographic	Establish the ground profile and to map slope defects

See Section 1.12 for carriageway closures and traffic management

## 1.1 Pavement

The carriageway is a dual two lane all-purpose road, with hard strip to both sides.

No pavement works are proposed. A ridged "rib line" delineates the edge of the running lane. Extruded asphalt kerbs are present at the west end of the section where the road is at-grade or in cutting.

There is wire rope VRS in the central reserve but none in the verge except for a short section of box-beam VRS at the end of the bridge.

## 1.2 Drainage

The surface water drainage is known to change at MP 34/5, a short distance west of the site and comprises;

- To the west: kerb and gully drainage, with a 150mm carrier pipe, falling in an easterly direction;
- To the east: a filter drain with 225mm uPVC pipe, also falling in an easterly direction;
- NB:- 150mm dia. UPVC pipe;
- SB:- 225mm dia. UPVC pipe;
- Cross carriageway:- 550mm dia. UPVC pipe.

There is believed to be an unlined ditch behind the earthwork crest.

The toe bulge associated with the earthwork slip spills onto the toe filter drainage and a drainage survey is required to inform remediation of the toe drain.

## 1.3 Geotechnical

A 15m long soil slip was first recorded during routine inspection works in 2008. The condition of the slip was noted to have deteriorated during subsequent inspections.

An intrusive ground investigation is proposed to provide information on the ground conditions, groundwater conditions and geotechnical parameters in order to inform the design of the slope repair. The ground investigation will comprise two boreholes, in situ testing, environmental, chemical and geotechnical laboratory testing and factual reporting

## 1.4 Soft Estate and Environment

Survey Contractors should minimise disturbing existing soft estate by not parking vehicles on verges or by using protective mats. There are trees and bushes on the side slopes and a rabbit fence is present on the mid slope.

The works information contains requirements for vegetation clearance. Trimming back and coppicing of scrub and woody vegetation is recommended for the technical surveys, therefore minimising vegetation removal over the extent of proposed swathes.

### 1.5 Traffic Signs, Road Markings

No traffic signs are present along the scheme extents. Road markings are present.

### 1.6 Lighting

No streetlighting is present along the scheme extents.

### 1.7 Structures and Buildings

An underbridge (large culvert) is present at the eastern (southern) extent of survey area, however these are not required to be part of required surveying tasks for the scheme.

### 1.8 Tunnels

There are no tunnels within scheme extents.

### 1.9 Technology

Traffic loops and camera technology are not anticipated within the scheme extents.

### 1.10 Statutory Undertakers

A statutory services plan (ref: HE605181-KIER-HGT-A43 NB MP 345A-DR-CE-602) has been collated. Details of statutory services affecting the project are listed in the below table.

Apparatus	Details
Overground electricity 11kv	Runs NE-SW north of the balancing pond near the NB carriageway
CATCHPIT GULLY MANHOLE OUTFALL CULVERT below footbridge PIPEWORK	Highway drainage

### 1.11 Traffic

It is anticipated that live carriageway traffic will be controlled with Traffic Management during the works, utilising a lane one closure on the NB carriageway during night time hours for completion. In addition, for the drainage survey, lane 1 closure of the SB carriageway is also required.

Each survey contractor is to liaise with TM contractor to co-ordinate the programme of works and appropriate TM requirements, where the shared ambition is to minimise the impact on the road users required.

FOR INFORMATION ONLY  
DO NOT COMPLETE AT THIS STAGE