

Kier Highways project No: 1050266
Client Reference No. 570127C
Ground Investigation for M5 Junction 11/A40 Eastbound
Onslip
Pre-Construction Information Pack

	Yes	No
Are Works to be carried out under the Commission/Contract Health and Safety Plan?	✓	
Is the Scheme likely to be notifiable under the CDM Regulations 2015?	✓	
1. Construction work that will last longer than 30 working days <u>and</u> have more than 20 workers simultaneously at any point in the project; or	✓	
2. Exceeds 500 person days		

Purpose:

This document has been produced in accordance with the requirements and recommendations of the Construction (Design and Management) Regulations 2015.

Prepared by:
(Designer)

Reviewed by:
(Team leader)*

Accepted by:
(Scheme Principal Designer)

* If GG104 is applicable to your contract this will determine the Kier Highways review level. For Type A projects the Design team lead, for Type B projects the Senior Manager and for Type C projects the Kier Highways Service Director must approve.

Project type as determined by GG104 (if applicable to contract)

A

Site specific hazards identified in design (*ONLY* include significant and unusual hazards not obvious to a competent contractor or likely to be difficult to manage effectively)

Note – Consideration to be given to all 'populations' affected

Activity	Residual hazard	Comment
Intrusive ground investigation on earthworks	Triggering / worsening of existing geotechnical defects resulting in earthwork failure.	Voided ground shall be grouted and if required weights added to the toe to temporarily stabilise the earthwork.
Intrusive ground adjacent to live carriageway.	Constraints on construction works imposed by live traffic. Potential for road traffic collisions.	Lane closures required for construction works, along with measures to limit duration and staff exposure. Proposal is to adopt TM. Remains a significant risk and needs careful planning of the construction works.
Underground services.	Service strike resulting in disruption of supply / injury / death of site staff undertaking excavation.	Utility plans will be obtained and provided to the Contractor. All excavations shall commence with CAT scan and hand dug

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	Additional cost / time / to address and loss of reputation.	service inspection pits to ensure the positions are free of underground services. Remains a significant risk and needs careful planning to obtain as much information as possible while limiting the risk.
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1. Project Description

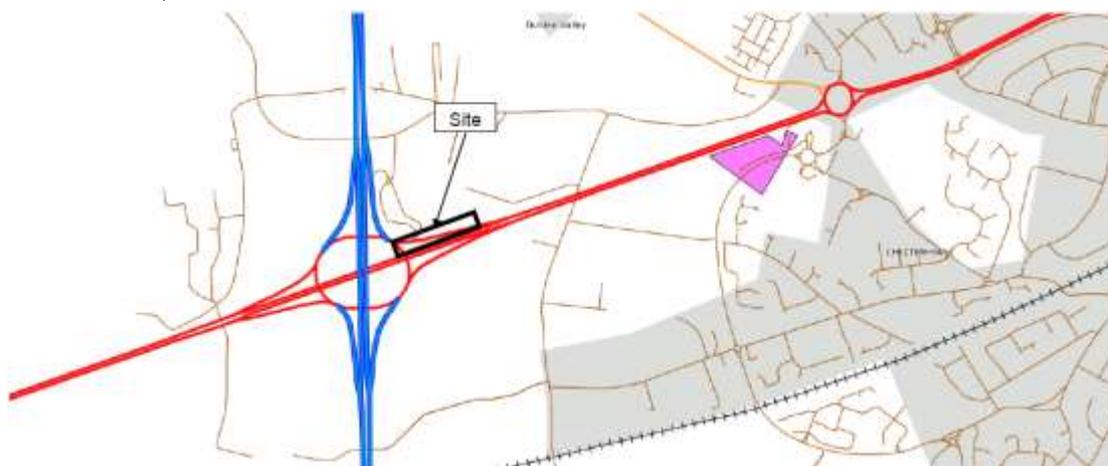
Scope of works

It is proposed to undertake intrusive ground investigation, and topographic and CCTV drainage surveys to obtain information for design of earthwork remediation.

Location plan / map

The defective section of carriageway is identified on the Highways Agency Geotechnical Data Management System as Earthwork 63685 on the A40 East Bound embankment, adjacent to the M5 J11/A40 interchange EB on-slip between:

- Start NGR: 389889, 221333
- End NGR: 389927, 221345



Based upon Historic and Authorised Landfill Site Boundaries Maps on HAGDMS © Crown Copyright

Legend

Historic Landfill	Active Landfill
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Site photographs



NGR	From	389889, 221333	To	389927, 221345
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Traffic Management arrangements

Traffic Management will be lane 1 and EB onslip closure and will require removal of vegetation and VRS to enable access to the exploratory holes.

Anticipated working hours	As a preliminary guide, TM cannot be set out before 8pm and lifted by 6am. This will give a maximum working window of 9pm to 5am. High traffic flows often reduce this working window to 10pm to 4am. The Contractor shall make allowances for these working time restrictions in estimating the works.				
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Mobilisation period	TBA	Anticipated start date	TBA	Anticipated end date	TBA
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2. Scheme Management and contact details		
Client – Highways England		
	Contact	
	Position	
	Tel	
	Email	
Concept TM Designer – Subject to procurement		
	Contact	
	Position	
	Tel	
	Email	
Local Authority (Environmental Health) if prior consent under Section 61 (control of pollution act) is required		
Not required	Contact	
	Position	
	Tel	
	Email	
Local Authority (Highways) if works affect adjoining local highway authority routes		
Not required	Contact	
	Position	
	Tel	
	Email	



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3. Scheme Specific Requirements			
	Yes	No	Comments
Does an H&S file exist?		No	
Site Welfare	Yes		<i>Mobile unit to be provided by the Contractor. Nearest depot and Welfare facilities: Bamfurlong Depot, off M5 J11/A40 GL51 6SU</i>
Are there requirements for site security?		No	
Are there any restrictions on vehicle movements?	Yes		<i>All site vehicles (incl. delivery vehicles) must abide by the TM requirements and regulations 1. enter and exit site from the dedicated points; 2. Reverse in-line with the Kier Highways Vehicle Reversing Policy; 3. Comply with the designated site safety speed limits; All vehicles within Traffic Management shall comply with the conspicuity requirements of Chapter 8.</i>
Are there any restrictions on deliveries, waste collection, or storage?	Yes		<i>No deliveries to take place unless Traffic Management is in place. No waste shall be stored on site. Waste Carriers Licence required</i>
Are there any parking restrictions?	Yes		<i>All vehicles and plant within the works area shall be parked in a safe area clear of access and egress points. All vehicles and plant shall be removed from the carriageway prior to removal of traffic management. No Private vehicles are allowed on site</i>
Height Restrictions (Structures & OH Cables)		No	<i>Have overhead cables been identified on site? NO If YES to any of the above detail the controls you are putting in place in 'Site Specific Hazards'.</i>
Are emergency procedures and means of escape required?	Yes		<i>The Contractor shall ensure that emergency procedure plans are in place and all staff have been inducted. One lane will remain serviceable throughout the works duration for emergency services at all times. Nearest A&E hospital to be indicated in Part B.</i>
Are there any areas in or around the site classified as no-go areas?	Yes		<i>No site personnel shall enter the safety zones or tapers within the extents of the traffic management unless trained and competent for installation/removal/maintenance of TM. Provision of minimum 20m Pedestrian worker Exclusion zone, behind and in front of Operating Road Sweeper to be in place. Sub-Contractor's Method Statements and Risk Statements shall contain suitable risk control to protect pedestrian workers and plant operators.</i>
Are there any noise restrictions?		No	
Adjacent land uses, for example schools, railway lines	Yes		<i>M5 and A40</i>
Are temporary works required?	Yes		<i>Vegetation and VRS clearance</i>
Are there any poor or hazardous ground conditions	Yes		<i>Existing geotechnical defects / cracking</i>
Are there any unstable structures?		No	

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3. Scheme Specific Requirements			
Are there any areas likely to be classed (existing or designed) as confined spaces?		No	
Are there any other projects taking place within the vicinity?		No	<i>No known works are taking place within the vicinity.</i>
Are there any Environmental restrictions?		No	

Materials and Substances with Health and/or Safety Hazards
<p>Asbestos <i>Has an Asbestos control checklist been completed? YES</i> <i>Provide information of known or suspected asbestos containing materials. No asbestos reported within the verge.</i></p> <p>Lead <i>Scope of Works are unlikely to encounter lead.</i></p> <p>Tar based pavement/surfacing <i>Depth of surfacing is currently unknown, tar is unlikely to be encountered.</i></p> <p>Leptospirosis/Weil's disease <i>Contact with highway drainage during resurfacing works. The Contractor is to ensure sufficient welfare facilities are in place at all times. All appropriate PPE must be worn at all times.</i> <i>Any instances of illness / sickness on site should be reported to the Site Manager/KIER HIGHWAYS Representative immediately and the persons affected should seek medical advice.</i></p>

4. Existing Services					Refer to STATS plans listed in Appendix B
Statutory Undertaker	Not Present	Over head	Under Ground	Comments	
Electricity (NGrid or WPD)					
400/132kV [pylons]	X			The exploratory holes to be positioned away from underground services, with CAT scan and hand dug service inspection pits. The overhead cables are to the east of the eastern site extent (around 25m away)	
66kV	X				
33kV	X				
11kV		X			
240/415Volts	X				
Water (Foul and Potable)					
Public Foul	X				
Pressurised Foul	X				
Public Combined Gravity	X				
Pressurised Combined	X				
Culverted Watercourse	X				
Water Main	X				
Aqueduct	X				
Communications					
British Telecom					
British Telecom		X	X	The exploratory holes to be positioned away from overhead or underground services, with CAT scan and hand dug service inspection pits (overhead cables around 65m to the west of the western site extent)	
Communications (others)	X				

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4. Existing Services Refer to STATS plans listed in Appendix B		
	Present	Comments
Gas & Oil		
Cadent / Wales and West Gas	No	
Government Pipelines		
Government Pipelines	No	
High Pressure Oil and Gas Pipelines (contact Fisher German)		
High Pressure Oil and Gas Pipelines	No	
Energis		
Energis	No	
Motorway Communication (Genesys)		
Motorway Comms	No	
Street Lighting		
Street lighting	No	
Other		
Highways drainage	Yes	The exploratory holes to be positioned away from underground services, with CAT scan and hand dug service inspection pits.

5. Health and Safety file requirements
Two copies of all information will be produced in an electronic format. The format of the electronic data issued is to be as follows: All documents and product data sheets are to be in PDF format, Design Team drawings are to be in PDF and AutoCAD DWG format.
The Principal Contractor shall collate all appropriate information as it becomes available, and this shall subsequently be collated in the File. The Principal Contractor is to implement an early procedure that advises contractors and materials suppliers of the detailed requirements for this record information. The health and safety file will be created and/or updated in accordance with the requirements of the IAN105/08.

Appendix A1 - Construction Drawings

Reference	Rev	Title
HE570127C-KIER-HGT-M5_J11_A40-DR-CE-0600_01		Exploratory hole location plan (Sheet 1 of 2)
HE570127C-KIER-HGT-M5_J11_A40-DR-CE-0600_02		Exploratory hole location plan (Sheet 2 of 2)
HE570127C-KIER-HGT-M5_J11_A40-DR-CE-0600_03		Topographic & CCTV drainage survey extends

Appendix A2 – Existing As-built Drawings & records

Reference	Rev	Title

Appendix B - Statutory Undertaker Drawings

The original C2 statutory undertakers returns are included in the TST documentation pack. The locations of services are shown on the exploratory hole location plan.

Appendix C - List of Structures

Structure Name	Structure No	Type	Str ID
Golden Valley I/C East	A40/161.50	Bridge and large culvert	6687

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Appendix D - Asbestos Control Checklist

Not applicable

Appendix E – Overhead cables

Not applicable

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