

**Kier Highways Project No: 1050497**  
**Client Reference No: 570127K**  
**M5 J11-10 NB MP81.7**  
**Pre-Construction Information for Surveys**

	Yes	No
Is the Scheme notifiable under the CDM Regulations 2015?		No
1. Last longer than 30 working days and have more than 20 workers simultaneously at any point in the project;		No
2. Exceed 500 person days		No

<b>Project type as categorised by GG104 (if applicable to contract / delete in not required)</b>	<b>A</b>
--	----------

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

Prepared by: Designer			
Reviewed by; Design Team Lead			
Accepted by: Scheme PD			



Authorised By: [Redacted]	Page 1 of 11	SEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



Site Specific Hazards Identified in Design		
Activity	Residual Hazard	Comments
Surveys on earthworks	Triggering / worsening of existing geotechnical defects resulting in earthwork failure.	Loading of the slope arising from survey work is unlikely to change the stability, but areas of soil slip can lead to more difficult underfoot conditions
Surveys adjacent to live carriageway.	Constraints on works imposed by live traffic. Potential for road traffic collisions.	Proposal is to adopt TM. Remains a significant risk and needs careful planning of the construction works.
Surveys near underground services.	Service strike resulting in disruption of supply / injury / death of site staff undertaking excavation. Additional cost / time / to address and loss of reputation.	Statutory Undertaker Drawings are listed in Appendix B. No services are shown in the NB carriageway and NRTS equipment is in the SB carriageway.
Surveys - asbestos	If asbestos is damaged there is the potential to breathe in fibres	Vigilance is required and the CCTV drainage surveyor needs to implement appropriate working methodologies

1 Project Description	
<b>Scope of Works</b>	
Topographic survey and CCTV drainage survey are proposed, to obtain information for design of earthwork remediation.	
<b>Location</b>	
The M5 MP81/7 scheme is located on the northbound embankment of the M5 to the west of Cheltenham at approximate National Grid co-ordinates 389647, 222079. Repairs to an embankment defect (soil slip, bulge and tension crack ) are required, extending from 389650, 222067 to 389651, 222090. Access to the site is via the M5. Location Plans are in Appendix A.	
Site Address	M5 N/B Staverton, Tewkesbury, Gloucestershire, GL51 6SW

<b>Site Photographs</b>
Photographs are included in the site information

<b>OSGR, MP or</b>	From	389650, 222067	To	389651, 222090	
<b>Str Key / Name</b>	Str Key 28248	Structure Name Bamfurlong culvert			
To the north, near MP81/6					
<b>Traffic Management</b>					
Traffic Management will be hard shoulder and possible lane 1 closure The closure will be Night works					
Anticipated Working Hours 8pm to 6am					
<b>Mobilisation Period</b>	TBA	Anticipated Start Date	TBA	Anticipated End Date	TBA



3. Scheme Specific Requirements			
	Yes	No	Comments
A pre-start meeting may be required			
Does an H&S file exist?		Yes	
Site Welfare	Yes		<i>Mobile welfare van with toilet, hot and cold water, drinking water, seating and means of boiling water for tea and coffee and heating food</i>
Security / Segregation		No	
Are there any other projects taking place in the vicinity?		No	
Are there any restrictions on vehicle movements?	Yes		<i>All site vehicles (incl. delivery vehicles) must abide by the TM requirements and regulations</i> 1. <i>enter and exit site from the dedicated points;</i> 2. <i>Comply with the designated site safety speed limits;</i> <i>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.</i> <i>No waste shall be stored on site.</i> <i>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.</i> <i>All vehicles and plant shall be removed from the carriageway prior to removal of traffic management.</i> <i>No Private vehicles are allowed on site</i>
Height Restrictions		No	
Overhead Cables		No	
Structures	Yes		<i>Bamfurlong culvert to the north at MP81/6</i>
Will fire precautions be required?		No	
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.</i> <i>Nearest A&amp;E hospital is:</i> <i>Gloucestershire Royal Hospital</i> <i>Great Western Road, Gloucester, Gloucestershire, GL1 3NN</i> <i>Tel: 03004 222 222</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.</i> <i>Provision of minimum 20m Pedestrian worker Exclusion zone, behind and in front of Operating Road Sweeper to be in place.</i> <i>Sub-Contractor's Method Statements and Risk Statements shall contain suitable risk control to protect pedestrian workers and plant operators.</i>

3. Scheme Specific Requirements			
	Yes	No	Comments
Are there any noise restrictions?	Yes		<i>The woodland verge near Defect 2 is part of a management plan which seeks to provide a dense visual screen between the northbound carriageway, and commercial properties within close proximity.</i>
Are temporary works required?		No	
Are there any vibration restrictions?		No	
Are there any poor or hazardous ground conditions	Yes		<i>Steep earthwork, narrow verge, defects comprising slip, bulge and tension crack (located at the crest, 1.7m from the kerb line and 15.3m long). Drainage pipes may contain asbestos,</i>
Are there any unstable structures?		No	
Are there any areas classed (existing or designed) classed as confined spaces?		No	
Are there any smoking restrictions?	Yes		<i>No smoking is allowed on site. Designated smoking areas to be confirmed during site inductions.</i>
Any environmental constraints identified?	Yes		<i>The woodland verge near Defect 2 is part of a management plan which seeks to provide a dense visual screen between the northbound carriageway, with public rights of way and commercial properties within close proximity. Significant trees may not be removed to facilitate the survey.</i>

### Materials and Substances with Health and/or Safety Hazards

#### Asbestos

*If Asbestos Containing Materials are found , the survey contractor shall implement appropriate measures to prevent fragments become dislodged, airborne and inhaled.*

*Under no circumstances will the Contractor attempt to remove any Asbestos Containing Materials without prior consent from the overseeing organisation.*

#### Lead

*Scope of Works are unlikely to encounter lead. Consider existing paint coatings to bridge beams.*

#### Tar based pavement/surfacing

*Not applicable as no excavation within pavement.*

**Leptospirosis/Weil's disease / Psittacosis** *Contact with highway drainage during resurfacing works potential risk of Weil's disease. The Contractor is to ensure sufficient welfare facilities are in place at all times. All appropriate PPE must be worn at all times.*

*Any instances of illness / sickness on site should be reported to the Site Manager/Principal Contractor Representative immediately and the persons affected should seek medical advice.*



Authorised By: [REDACTED]	Page 7 of 11	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



4. Existing Services		Refer to STATS plans listed in Appendix B		
Statutory Undertaker	Not Present	Over head	Under ground	Comments
<b>Electricity</b> If overheads cables are identified they should be clearly marked on the scheme drawings				
400/132kV [pylons]	X			
66kV	X			
33kV	X			
11kV	X			
240/415Volts	X			
<b>Water (Foul and Potable)</b>				
Public Foul	X			
Pressurised Foul	X			
Public Combined Gravity	X			
Pressurised Combined	X			
Culverted Watercourse	X			
Water Main	X			
Aqueduct	X			
<b>Communications</b>				
Communications	X			
<b>British Telecom</b> If overheads cables are identified they should be clearly marked on the scheme drawings				
British Telecom	X			
<b>National Grid</b>				
National Grid	X			
<b>Cadent</b>				
LP Mains	X			
MP Mains	X			
IP Mains	X			
LHP Mains	X			
NHP Mains	X			
<b>Government Pipelines</b>				
Government Pipelines	X			
<b>Fisher German Pipelines</b>				
Fisher German Pipelines	X			
<b>Energis</b>				
Energis	X			
<b>Motorway Communication</b>				
Motorway Comms	X			Shown in the southbound carriageway only
<b>Street Lighting</b>				
Street lighting	X			
<b>Highway Drainage</b>				
			X	
<b>Other</b>				

**5. Health and Safety file requirements**

The survey output documents will constitute the Health & Safety File.

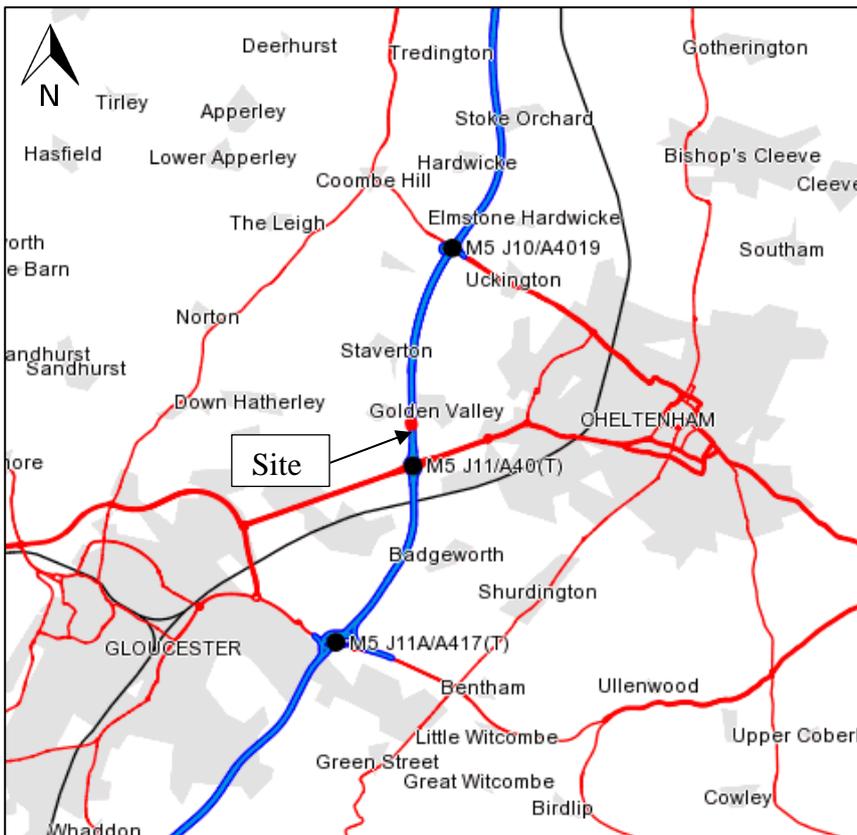
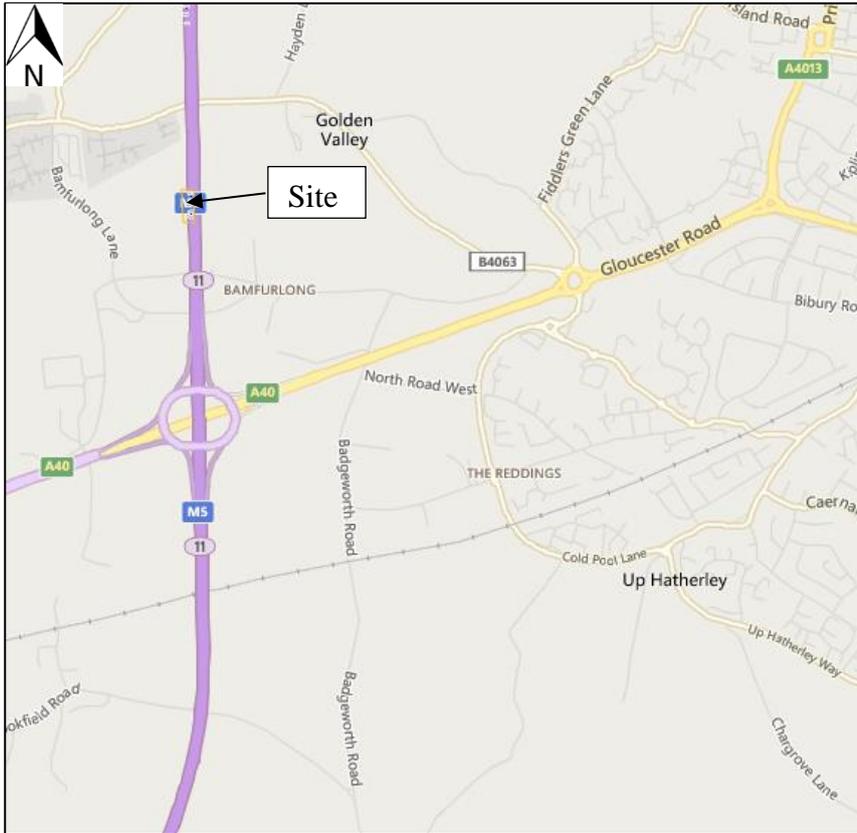
All information will be produced in an electronic format. The format of the electronic data issued is to be as follows: All documents and product data sheets are to be in PDF format, drawings are to be in PDF and AutoCAD DWG format.

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.



Authorised By: [REDACTED]	Page 9 of 11	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		





Authorised By: [REDACTED]	Page 10 of 11	SEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



**Appendix B - Statutory Undertaker Drawings**

Reference	Title	Company
291 - BT_SQU02217Z	Click Before You Dig	Openreach
291 - BT_XIM02218J	Click Before You Dig	Openreach
291 - BT_ZHE01467A	Click Before You Dig	Openreach
TZE05481L	Click Before You Dig	Openreach
299 - CityFibre_M5_197	Existing Plant	CityFibre
299 - CityFibre_M5_198	Existing Plant	CityFibre
CityFibre M5_196(116)	Existing Plant	CityFibre
M5_198 Telecoms supplied by Virgin Media	None	Virgin Media
2890 Telecoms A0 Landscape	None	Virgin Media
M5_197 Telecoms supplied by Virgin Media	None	Virgin Media
15978421 - LSBUD - -190711	beforeUdig	Linesearch
15978421 - WPD_422 - West Midlands	None	Western Power Distribution
15978421 - WWU_417	Dial before you dig	Wales & West Utilities
Instalcom_M5_198	None	Instalcom
2890 Clean Water A0 Landscape	None	Severn Trent Water
M5_197 STW Clean	None	Severn Trent Water
M5_197 STW Combined	None	Severn Trent Water
M5_197 STW Waste	None	Severn Trent Water
2890 Wastewater A0 Landscape	None	Severn Trent Water
M5_198 STW Clean	None	Severn Trent Water
M5_198 STW Combined	None	Severn Trent Water
M5_198 STW Waste	None	Severn Trent Water
STWcombined_M5_197_1447	None	Severn Trent Water
MCY_060_M5_AB_0810_0825	M5 Communications Records MP 81/0 to 82/5	GeneSys
SSETelecoms_M5_198	None	Scottish and Southern Electricity
TOPO1250_M5-107-05460	None, but shows combined services	Kier Highways
TOPO1250_M5-107-05461	None, but shows combined services	Kier Highways

**Appendix C - Construction Drawings**

Refer to the Works Information

**Appendix D - List of Structures**

Structure	Type	Location Ref	Str key	OSGR
/M5//81.60/Q	Bamfurlong culvert	-	28248	389665, 222153



Authorised By: [REDACTED]	Page 11 of 11	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		

