

# **National Asset Delivery Technical Surveys and Testing**

## **Scope for 566149 A36 Wilton Skew Bridge GPR Survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
0	0	Original version issued with tender	ET	14/01/20 20

**TABLE OF CONTENTS**

<b>1</b>	<b>PURPOSE OF THE <i>SERVICES</i></b> .....	<b>4</b>
<b>2</b>	<b>EXISTING INFORMATION</b> .....	<b>5</b>
<b>3</b>	<b>CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES</b> ...	<b>6</b>
<b>4</b>	<b>REQUIREMENTS FOR THE PROGRAMME</b> .....	<b>8</b>
<b>5</b>	<b>SERVICES AND OTHER THINGS PROVIDED BY THE <i>CLIENT</i></b> .....	<b>9</b>
<b>6</b>	<b>SPECIFICATION FOR THE SERVICES</b> .....	<b>10</b>

**LIST OF ANNEXES**

**Appendix 1    Supplementary Constraints**

## **1 PURPOSE OF THE *SERVICES***

### **1.1 Project objectives**

1.1.1 The principle objective of this project is as follows:

- To undertake Ground Penetrating Radar (GPR) surveys at locations identified in drawings HE566149-KIER-HDG-A36\_59.1\_61.7\_Z-DE-CD-0000-12 to 16.

1.1.2 The specification that applies to the *works* is included in Section 6.

### **1.2 Scope of *services***

1.2.1 The *services* to be provided under this contract are:

- GPR survey to determine locations of buried services as specified at locations identified on the survey drawings.

### **1.3 Deliverables**

1.3.1 The *Consultant* is required to produce the following deliverables:

GPR Survey and Mapping to include;

- Type of service
- Chamber extents
- Diameter and depths of services
- Extents and depths of anomalous areas

## 2 EXISTING INFORMATION

- 2.1.1 The Drawings listed below apply to this contract. Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

Drawing Number	Title	Revision / Date
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-01	Site Location Plan (Sheet 1 of 1)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-02	Statutory Undertakers Plan (Sheet 1 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-03	Statutory Undertakers Plan (Sheet 2 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-04	Statutory Undertakers Plan (Sheet 3 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-05	Statutory Undertakers Plan (Sheet 4 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-06	Statutory Undertakers Plan (Sheet 5 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-12	GPR Survey and Core Sampling Locations (Sheet 1 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-13	GPR Survey and Core Sampling Locations (Sheet 2 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-14	GPR Survey and Core Sampling Locations (Sheet 3 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-15	GPR Survey and Core Sampling Locations (Sheet 4 of 5)	1 First Issue – October 19
HE566149-KIER-HDG-A36_59.1_61.7_Z-DE-CD-0000-16	GPR Survey and Core Sampling Locations (Sheet 5 of 5)	1 First Issue – October 19

### **3 CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES**

#### **3.1 General**

- 3.1.1 The *Consultant* provides the *Services* in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.
- 3.1.2 The *Consultant* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Consultant* submits information detailing how the *Consultant* will provide the *Services* to the *Client* prior to the *services* commencing. This information will include any lifting plans, risk assessments, method statements, the *Consultant's* staff training information and any other relevant Health and Safety requirements.

#### **3.2 Working hours & site specific constraints**

- 3.2.1 The *Consultant's* working hours for site works are 2000 hrs – 0500 hrs.
- 3.2.2 The traffic management anticipated will comprise of night temporary traffic lights, full closures with diversion routes, and lane closures.
- 3.2.3 The site comprises of a two-way traffic single carriageway throughout the scheme extents. There is a mini roundabout located at MP 59.2 + 80m.
- 3.2.4 There are a number of residential properties adjacent to the scheme extents.

#### **3.3 Health, Safety and Environment & Risk Management**

##### Health and Safety requirements

- 3.3.1 In Providing the *Services* the *Consultant* meets the requirements of Annex 2 of the supplementary constraints relation to health and safety duties.
- 3.3.2 The *Consultant* shall comply with the requirements of Highways England's safety passport scheme and ensure that all of his employees, and any of his subcontractor's, are registered in accordance with the implementation of the scheme. Details on the scheme can be found here:  
<http://www.highwayssafetyhub.com/safety-passport.html>
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which has been provided with this document.
- 3.3.4 Before commencing the construction phase of the *services*, the *Consultant* confirms to the *Client* that adequate welfare facilities are in place. Where the facilities detailed in Section 5 are not deemed adequate, the *Consultant*

provides all necessary facilities to provide the Services and to comply with the minimum requirements set out in HSE guidance document L153.

#### Environmental requirements

- 3.3.5 In providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

#### Risk Management

- 3.3.6 The *Consultant* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Consultant* submits a risk register, which captures all risks associated with the delivery of the services including those identified by the *Client*, with his tender and maintains it for the contract period.

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Consultant* submits programme to the *Client* with his tender.
- 4.1.2 The *Consultant* provides the *Services* taking into account the following programme constraints:
- (i) the *Starting Date* and *Completion Date* and any post site works, reporting and review period
  - (ii) The *Services* and other things provided by *Client* (see Section 5)
- 4.1.3 The programme should be in the form of an activity and time related bar chart, produced as a result of a critical path analysis.
- 4.1.4 The programme should preferably be provided in either a PDF or MS Excel format and cover the full contract period including post site activities. Activities should be clearly defined and named and the programme should detail the following:
- (i) the *Starting Date*, *Completion Date* & *Consultant's* planned completion
  - (ii) for each activity, the proposed resources (plant & labour) expected to deliver each activity should be shown on the programme
  - (iii) review periods for any reporting requirements
  - (iv) key dates for the *Client* to provide 'services and other things'
  - (v) key dates for co-ordination with *Others*
- 4.1.5 The *Consultant* should provide details of the proposed resources (plant, labour, subcontractors etc.) expected to deliver each activity. This information can either be shown on the programme itself or provided in an associated resource statement included in the Proposal for Providing the *Services*.
- 4.1.6 The *Consultant* updates the programme every week. The *Consultant* submits an updated programme to the *Client* upon request.



## **5 SERVICES AND OTHER THINGS PROVIDED BY THE *CLIENT***

5.1.1 The following temporary traffic management will be provided by the *Employer* to allow the *Contractor* to Provide the Works:

- (1) Temporary lane closures utilising traffic lights where possible to maintain access to residential properties.

Full details will be finalised upon successful award of the contract.

## 6 SPECIFICATION FOR THE SERVICES

6.1.1 The *Consultant* is required to produce the following deliverables:

Utility Survey – A buried utility survey to locate and verify underground utilities via scanning in accordance with PAS 128:2014 Type A. this information is to include;

- Type of service
- Chamber extents
- Diameter and depths of services
- Extents and depths of anomalous areas

6.1.2 A detailed specification for the **Type A and Type B surveys** is included in the table below:

Survey Extent	Location plan attached	✓	Textual Description		Proposals Plan			
Scale	1:50		1:100	✓	1:200			
Location Accuracy		Horizontal		±50mm	Vertical	±25mm		
Plan control grid and datum	All PAS 128 surveys to be referenced to National Grid							
	GNSS derived datum (recommended)	✓	Benchmark derived datum					
Type D desktop utility records search		A	Type C Site reconnaissance					
Type B detection survey		✓	Type A verification survey			✓		
Type B detection methods	M1	✓	M2		M3		M4	
	Post-processing of GPR data			Yes	✓	No		
Type A verification Methods	Inspection chamber survey	✓	Hand dug trial holes			Vacuum excavation		
	Number of inspection chambers		Soft dig (number)			Hard dig (number)		
Deliverables and delivery medium	CAD		PDF		BIM	B	GIS	
	Email	✓	DVD		Paper		Other	

Notes:

- C2 returns provided by Client as part of task order package.
- All drawings to be provided in AutoCAD Civil 3D 2018.dwg format using the linetypes supplied as part of the task order package.

- 6.1.3 *Consultant* shall Provide the Services in accordance with: HD 29/08 Data for Pavement Assessment, PAS128:2014, Specification for underground utility detection & IAN 184/16 Highways Agency Data & CAD standard.
- 6.1.4 In addition to the programme of works required under Section 4 of this document, the *Contractor* is to provide method statements, risk assessments and safety plans for the survey to the *Client* before commencing works on site