



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

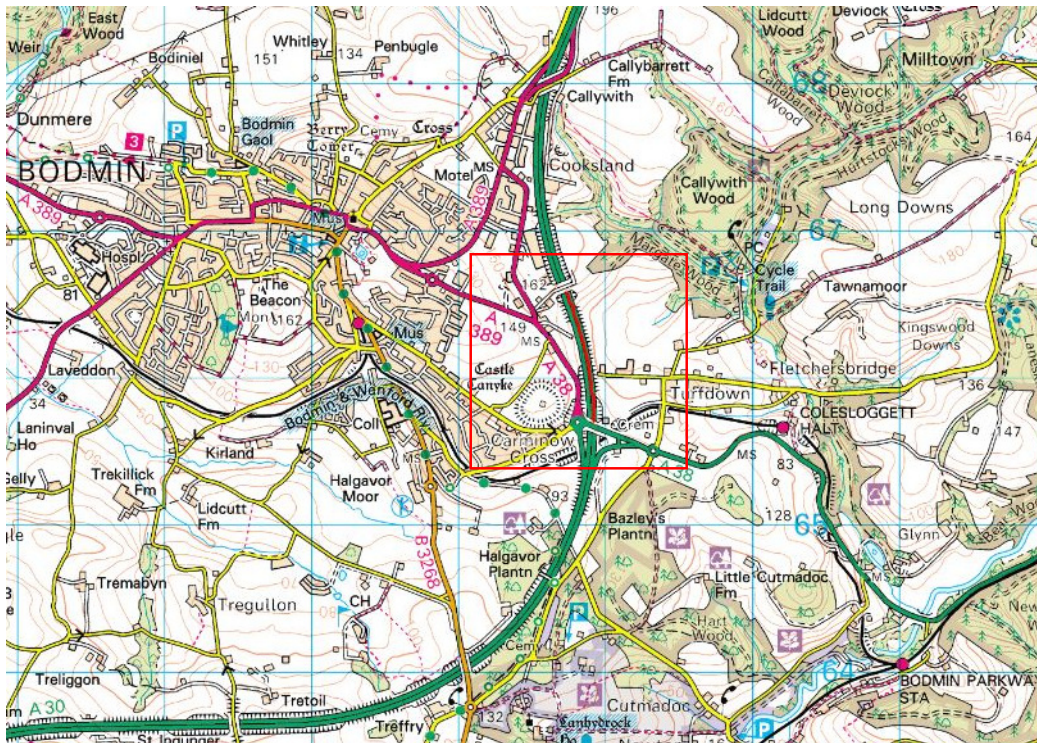
## **Site Information for 570131 A30 Carminow Cross-Holland Asbestos Testing**

## 1 SITE INFORMATION

### 1.1 Site boundary, extents and access arrangements

#### 1.1.1 Site Location

The site is located on the A30 east of Bodmin in Cornwall. MP 95/140 to MP 96/115. Refer to drawing no. HE570131D-KIER-VGN-A30\_MP\_95-97\_CR-DR-CH-010002.



#### 1.1.2 Site Boundaries

The site boundaries are constrained by the highway boundary defined by hedges, walls and fences. All of the survey works are confined to the central reservation.

#### 1.1.3 Access Arrangements

Access to be provided by Traffic Management. Traffic Management arrangements TBC by HE and CWF contractor.

### 1.2 Pavement

Not applicable as site is located within central reservation.

### **1.3 Drainage**

Existing drainage throughout the site extents within the central reservation is a gravity piped system with access through manholes and catchpits.

### **1.4 Geotechnical**

Not applicable as site is located within central reservation.

### **1.5 Soft Estate and Environment**

Soft estate within the entire central reservation.

### **1.6 Traffic Signs, Road Markings**

There are two traffic signs located within the central reservation. The existing carriageway road markings are installed to design standards and TSRGD 2016.

### **1.7 Lighting**

There is no street lighting within the site extents.

### **1.8 Structures and Buildings**

There is one overbridge located within the site extents:

Carminow Cross Location Ref: A38/2.90– Key: 6425 OSGR: 208922,65663

### **1.9 Tunnels**

There are no tunnels or culverts within the central reservation.

### **1.10 Technology**

Not applicable as site is located within central reservation.

### **1.11 Statutory Undertakers**

New (in date) C2 stats returns should be sought prior to undertaking works. Before digging, Contractor is to satisfy themselves of the location of buried services using technical surveys such as CAT and genny. The Contractor is responsible for ensuring a safe survey is undertaken and ensuring no damage to existing services. The Contractor is also responsible for ensuring any damage is reported to the Client and the owner of the asset, including suitable repairs where needed.

For location of existing services please refer to the scheme Stats drawing: HE570131-KIER-GEN-A30\_MP\_95-97\_CR-DR-CH-010001, 20210819-TOPO1250\_A30-0598, 20210819-TOPO1250\_A30-0599, 20210819-TOPO1250\_A30-0600, 20210819-TOPO1250\_A30-0601, 20210819-TOPO1250\_A30-0602 & 20210819-TOPO1250\_A30-0604.

Please note the overhead BT and electricity cables run across the site. Safe working heights have not been indicated and should be considered in accordance with the method of works adopted.

Wessex Water, Low voltage electricity, BT & highways drainage are in the vicinity.

### **1.12 Traffic**

2019 (WebTris) AADT EB 5060/1 = 18,986 (10.5%)

2019 (WebTris) AADT WB 5061/1 = 18,225 (9.9%)

The existing speed limit within the scheme extents is National Speed Limit for dual carriageways (70mph).

FOR INFORMATION ONLY



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

## **Works Information for**

### **570131 A30 Carminow Cross-Helland Asbestos Testing**

**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	01/11/21

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## LIST OF ANNEXES

Appendix 1 Supplementary Constraints

## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principle objective of this project is to undertake specialist sampling and testing of the highway drainage assets along the A30 between MP95/140 & MP96/115 central reserve, at the locations (survey area) shown on drawing HE570131D-KIER-VGN-A30\_MP\_95-97\_CR-DR-CH-010002 and provide subsequent reports in accordance with the requirements detailed in the specification.

a) Management Asbestos Survey Report

b) Asbestos Refurbishment Survey Report

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

### **1.2 Scope of works**

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

- (1) Undertake a detailed management asbestos survey and refurbishment survey of all drainage assets shown in the following location plan drawings HE570131D-KIER-VGN-A30\_MP\_95-97\_CR-DR-CH-010002 and as per the specification in section 6:

### **1.3 Deliverables**

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

- (1) A copy of the completed desktop study reports
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from with photos and test results.



## 2 EXISTING INFORMATION

2.1.1 Known drainage assets have been identified on drawing HE570131D-KIER-HDG-A30\_MP\_95-97\_CR-DR-CH-050001. This information available has been identified from HADDMS. It should be noted that this information has not been confirmed by previous surveys and therefore may be subject to inaccuracies. The purpose of this survey is to identify the location/type/dimension of the existing drainage asset and its condition, within the works boundary identified on the aforementioned drawing.

2.1.2 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
HE570131D-KIER-GEN-A30_MP_95-97_CR-DR-CH-010001	STATUTORY UNDERTAKERS PLANT	C2 - 28/06/2021
HE570131D-KIER-HDG-A30_MP_95-97_CR-DR-CH-050001	EXISTING DRAINAGE	C2 - 28/06/2021
HE570131D-KIER-VGN-A30_MP_95-97_CR-DR-CH-010002	CENTRAL RESERVATION SURVEYS	C2 - 28/06/2021

### **3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS**

#### **3.1 General**

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

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

- 3.2.1 The *Contractor's* working hours for site works shall be between the hours of 22:00 hrs and 06:00 hours.

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

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* shall comply with the requirements of National Highways' 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the following document;  
HE570131D-KIER-VGN-A30\_MP\_95-97\_CR-CDM-CH-0001
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

##### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

##### Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period. The contractor should refer to the Pre-construction Information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

FOR INFORMATION ONLY

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works 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 *Employer* (see Section 5)
  - (iii) Survey to be undertaken concurrently with other survey activities where practicable to minimise traffic management requirements and disruption to public. The programme is to take this into account.
  - (iv) Survey results and report to be returned 2-3 weeks following completion of site works
- 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) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project
  - (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
  - (vi) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

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

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

- (1) Lane 2 EB/WB closures for central reservation works to be in place and moved as required.

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The *contractor* will be working under a CDM principle contractor, welfare facilities will be provided by the principle contractor.

FOR INFORMATION ONLY

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with: IAN 184/16 Highways Agency Data & CAD standard.

### **6.2 Asbestos Management Survey**

- 6.2.1 The surveys are to be carried out as per the Control of Asbestos Regulations 2012(CAR 2012) and the survey guide HSG 264. The survey is to include the areas indicated on the HE570131D-KIER-VGN-A30\_MP\_95-97\_CR-DR-CH-010002

- 6.2.2 Management asbestos survey report, in addition to production of new Asbestos Action Plan (AAP) is to be done as part of the deliverables.

### **6.3 Asbestos Refurbishment Survey.**

- 6.3.1 The Asbestos Refurbishment Survey is to be undertaken as the survey area which is indicated on drawing HE570131D-KIER-VGN-A30\_MP\_95-97\_CR-DR-CH-010002
- 6.3.2 The refurbishment survey is to be undertaken in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.3 Testing frequency is to be determined by the contractor and in agreement with HE
- 6.3.4 The contractor is to confirm access requirements necessary to complete the works to the employer prior to works being undertaken
- 6.3.5 Testing and subsequent reporting to be in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.6 The existing Annexe 3 AAP for the A30 South of Carminow to North of is to be updated following testing in accordance with the employer's requirements



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

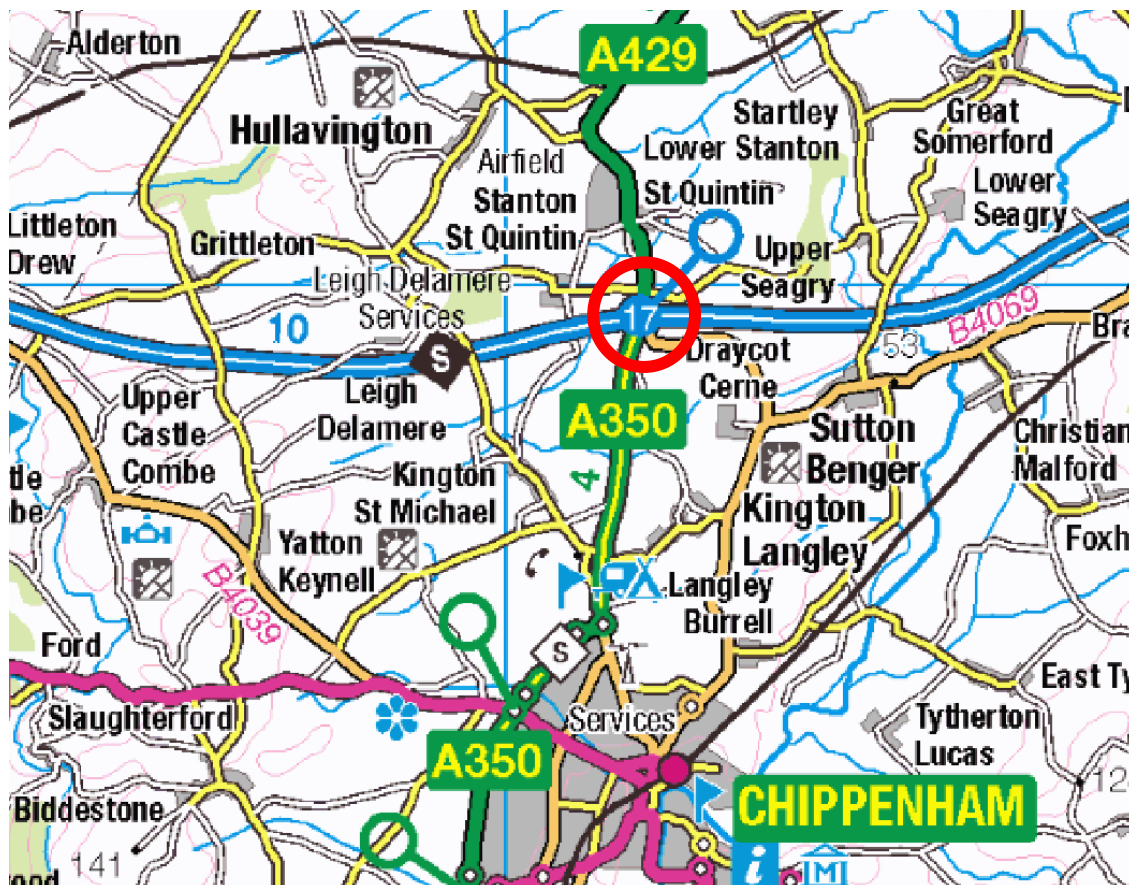
## **Site Information for 570131 M4 J17 Eastbound MP 152/3 - 153/6 Asbestos survey**

## 1 SITE INFORMATION

### 1.1 Site boundary, extents and access arrangements

#### 1.1.1 Site Location

The site is located along the eastbound verge of the M4 between Junction 17 and Junction 16, including the entry and exit slips at Junction 17. Between MP153.6 – MP152.1. Refer to drawing nos. HE570131D-KIER-VGN-M4\_J17\_J16\_B-DR-CH-010001 to 010003.



#### 1.1.2 Site Boundaries

The site boundaries follow the highway boundary defined by hedges, walls and fences.

#### 1.1.3 Access Arrangements

Access to be provided by Traffic Management. Traffic Management will be lane 1 closures and/or total slip road closures between the hours of 22:00 hours and 06:00 hours and be provided by Highways England.



## **1.2 Pavement**

Made up carriageway construction through the site extents.

## **1.3 Drainage**

Existing drainage throughout the site extents within the eastbound verge mainline and slips comprises of surface water channels, gullies linked to pipe systems, and surface and sub-surface filter drains.

## **1.4 Geotechnical**

The eastbound off slip on the near side at Junction 17 is generally at grade. The eastbound on slip on the near side at Junction 17 is in cutting at the top of the slip with an approximate slope height of 3.5 and angle of 1 in 2.4 which then levels off as it approaches the mainline. Between the offside of the slips and mainline the earthworks are in cutting, with a maximum slope height of 7m and angle of 1 in 2.2. The maximums are at the top of the slips on both sides of Junction 17 roundabout.

## **1.5 Soft Estate and Environment**

Southbound verge consists of grassland, scrub, tree clusters and small woodland areas. The site extents are within Winterbourne Railways Cutting SSSI, Stanton St. Quinn Quarry and Motorway Cutting SSSI, therefore consultation with Natural England may be required. The surrounding environment is rural.

## **1.6 Traffic Signs, Road Markings**

Traffic signs are located within the eastbound verge through the mainline and both slip roads. The current carriageway markings are installed to design standards and TSRGD 2016.

## **1.7 Lighting**

Street lighting is present at the top of the eastbound off and on slips.

## **1.8 Structures and Buildings**

There are several structures within the site extents:

### **1.8.1 Gantries and VMS**

MS4 Gantry 3532B 153.2+80m – Key: 26638

### **1.8.2 Overbridges**

Stanton St Quintin I/C West 153.0+80m – Key: 1140

Stanton St Quintin I/C East 152.9+50m – Key: 1138

## 1.9 Tunnels

There is one culvert within the site extents:

Watermain Culvert 153.6+0m – Key: 15132

## 1.10 Technology

Motorway communications do run along the eastbound verge of the mainline within the site extents. They also cross the carriageway at the top of the on slip road where two MS1 signs are located either side of the carriageway. Refer to statutory undertakers information for further details.

## 1.11 Statutory Undertakers

For information on statutory undertakers apparatus refer to drawing nos. HE570131D-KIER-HGN-M4\_J17-J16\_B-DR-CH-010005 to 010007.

## 1.12 Traffic

Traffic Flows (Webtris 2019):

Site	Reference	OSGR	Average ADT	HGV
MIDAS M4/3537B	Eastbound mainline on link between M4 J18 and J17	E: 390973 N: 179506	42162	10.2%
MIDAS M4/3532B	Eastbound mainline on link M4 J17 intra-junction	E: 391466 N: 179567	35590	15.1%
MIDAS M4/3522B	Eastbound mainline on link between M4 J17 and J16	E: 392466 N: 179585	43117	11.7%
MIDAS M4/3533L	Eastbound off slip at J17	E: 391368 N: 179583	7875	14.7%
MIDAS M4/3526M	Eastbound on slip at J17	E: 392064 N: 179609	7822	7.6%



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

## **Works Information for**

**570131 M4 J17 Eastbound MP 152/3 - 153/6  
Asbestos survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
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## LIST OF ANNEXES

### Appendix 1 Supplementary Constraints

## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principle objective of this project is to undertake specialist sampling and testing of the highway drainage assets within the area shown on drawing nos. HE570131D-KIER-VGN-M4\_J17\_J16\_B-DR-CH-010001 to 010003 and provide a subsequent report in accordance with the requirements detailed in the specification.

a) Management Asbestos Survey Report

b) Asbestos Refurbishment Survey Report

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

### **1.2 Scope of works**

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

- (1) Undertake a detailed management asbestos survey and refurbishment survey of all drainage assets shown in the following location plan drawings HE570131D-KIER-VGN-M4\_J17\_J16\_B-DR-CH-010001 to 010003 and as per the specification in section 6:

### **1.3 Deliverables**

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

- (1) A copy of the completed desktop study reports
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from with photos and test results.

## 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
HE570131D-KIER-HGN-M4_J17_J16_B-DR-CH-000001	LOCATION PLAN	C1 / 01/12/2020
HE570131D-KIER-HGN-M4_J17_J16_B-DR-CH-010005	STATUTORY UNDERTAKERS PLAN SHEET 1 OF 3	C1 / 11/12/2020
HE570131D-KIER-HGN-M4_J17_J16_B-DR-CH-010006	STATUTORY UNDERTAKERS PLAN SHEET 2 OF 3	C1 / 11/12/2020
HE570131D-KIER-HGN-M4_J17_J16_B-DR-CH-010007	STATUTORY UNDERTAKERS PLAN SHEET 3 OF 3	C1 / 11/12/2020
HE570131D-KIER-VGN-M4_J17_J16_B-DR-CH-010001	SURVEY LOCATION PLAN SHEET 1 OF 3	C2 / 08/06/2021
HE570131D-KIER-VGN-M4_J17_J16_B-DR-CH-010002	SURVEY LOCATION PLAN SHEET 2 OF 3	C2 / 08/06/2021
HE570131D-KIER-VGN-M4_J17_J16_B-DR-CH-010003	SURVEY LOCATION PLAN SHEET 3 OF 3	C2 / 08/06/2021

### **3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS**

#### **3.1 General**

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

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

- 3.2.1 The *Contractor's* working hours for site works 22:00 – 05:00.

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

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* shall comply with the requirements of National Highways' 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the following document;  
HE570131D-KIER-VGN-M4\_J17\_J16\_B-CDM-CH-0001 &  
HE570131D-KIER-VGN-M4\_J17\_J16\_B-CDM-CH-0002.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

##### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

##### Risk Management



- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period. The contractor should refer to the Pre-construction Information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

FOR INFORMATION ONLY

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works 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 *Employer* (see Section 5)
  - (iii) Survey to be undertaken concurrently with other survey activities where practicable to minimise traffic management requirements and disruption to public. The programme is to take this into account.
  - (iv) Survey results and report to be returned 2-3 weeks following completion of site works
- 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) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project
  - (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
  - (vi) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

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

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

- (1) Lane 1 and hard shoulders closures for verge works and/or full closures of the exit and entry slip roads.

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The *contractor* will be working under a CDM principal contractor, welfare facilities will be provided by the principal contractor.

FOR INFORMATION ONLY

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with: IAN 184/16 Highways Agency Data & CAD standard.

### **6.2 Asbestos Management Survey**

- 6.2.1 The surveys are to be carried out as per the Control of Asbestos Regulations 2012(CAR 2012) and the survey guide HSG 264. The survey is to include the areas indicated on the HE570131D-KIER-VGN-M4\_J17\_J16\_B-DR-CH-010001 to 010003
- 6.2.2 Management asbestos survey report, in addition to production of new Asbestos Action Plan (AAP) is to be done as part of the deliverables.

### **6.3 Asbestos Refurbishment Survey.**

- 6.3.1 The Asbestos Refurbishment Survey is to be undertaken as the survey area which is indicated on drawing HE570131D-KIER-VGN-M4\_J17\_J16\_B-DR-CH-010001 to 010003
- 6.3.2 The refurbishment survey is to be undertaken in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.3 Testing frequency is to be determined by the contractor and in agreement with HE
- 6.3.4 The contractor is to confirm access requirements necessary to complete the works to the employer prior to works being undertaken
- 6.3.5 Testing and subsequent reporting to be in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.6 The existing Annexe AAPs (011 AAP M4 J15\_J18 & 188 AAP M4 J15\_J18) are to be updated following testing in accordance with the employer's requirements



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

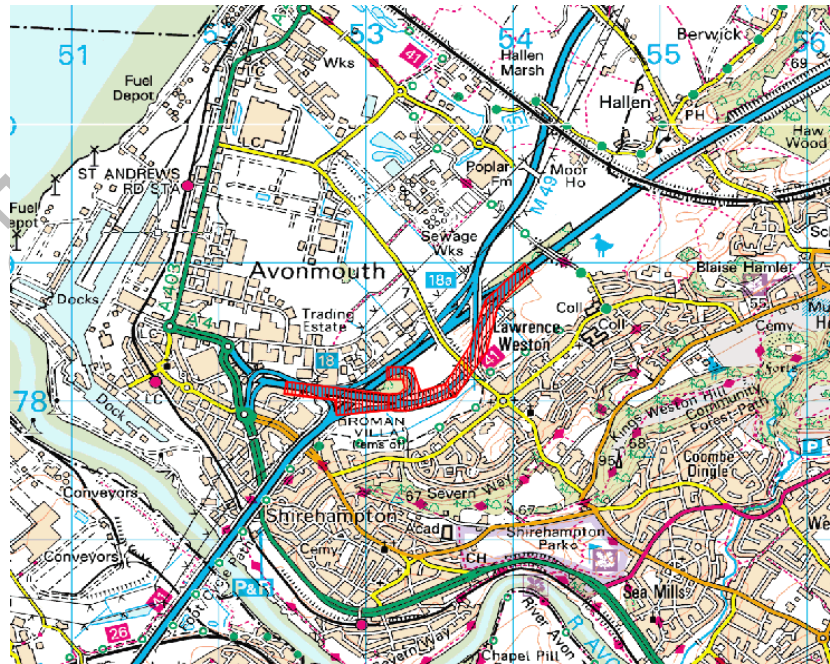
## **Site Information for 570131 M5 J18 Asbestos survey**

# 1 SITE INFORMATION

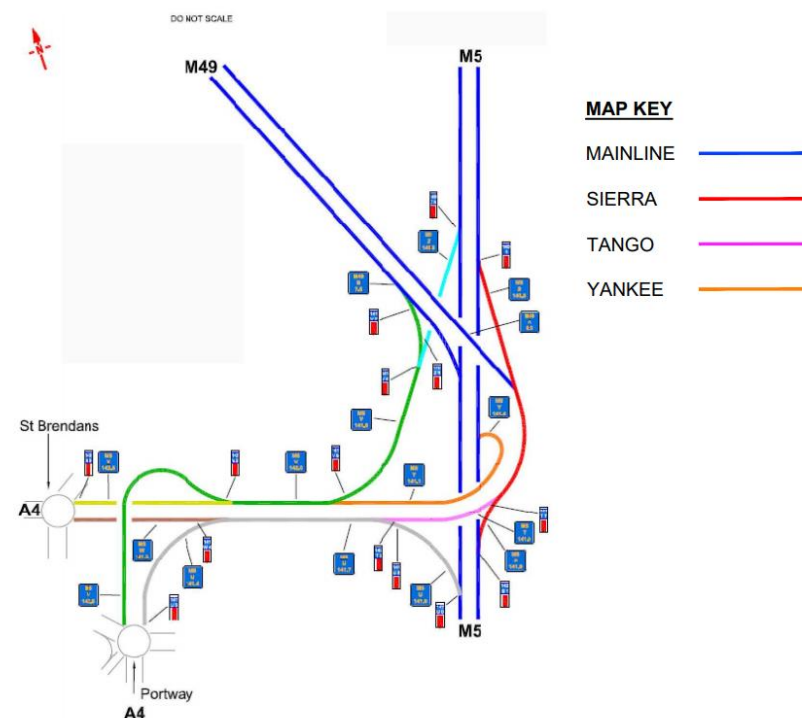
## 1.1 Site boundary, extents and access arrangements

### 1.1.1 Site Location

The site is located at Junction 18 of the M5, and includes the T, Y and S Loops



**M5 JUNCTIONS 18 - 18A LINK ROAD NOMENCLATURE SCHEMATIC**



### 1.1.2 Site Boundaries

The site boundaries are constrained by the highway boundary defined by hedges, walls and fences. The majority of survey works are within the verges.

### 1.1.3 Access Arrangements

Access to be provided by Traffic Management. Traffic Management arrangements TBC by HE and CWF contractor.

## 1.2 Pavement

Made up carriageway construction through the site extents. Central reservation is hardened for approx. 260m, in two locations, on and adjacent to the Avonmouth interchange underbridge.

## 1.3 Drainage

Existing drainage within the central reservation is a gravity piped system with access through manholes and catchpits. Channel drainage and gullies can be typically found on the edge of carriageway. HADDMS records for the extents are incomplete.

## 1.4 Geotechnical

T Loop: Nearside is negative gradient verge, offside is the central reserve.

Y Loop: Nearside is negative gradient verge becoming level along the length.

Offside is central reserve, transitioning to level verge.

S Loop: Both verges at different gradients changing throughout.

## 1.5 Soft Estate and Environment

Soft estate within the central reservation is considered to be species poor grassland. The surrounding environment is rural on the southbound carriageway side and predominantly industrial but with residential properties a few hundred metres away on the northbound carriageway side.

## 1.6 Traffic Signs, Road Markings

Traffic signs are located within the verge, there are also emergency roadside telephones and communication cabinets. The current carriageway road markings are installed to design standards and TSRGD 2016.

## 1.7 Lighting

Street lighting present throughout extents in verges/central reserve.

## 1.8 Structures and Buildings

There are two underbridges and one underbridge located within the site extents. The structures identified within the extents are listed below:

Structure	Type	Location Ref	Str key	OSGR
Gantry G141E	Sign/Signal Gantry	140.30	13454	353960, 178830
Gantry G142E	Sign/Signal Gantry	140.30	13455	353980, 178810
M5 Southbound Off	Highway Underbridge	140.60	13456	353860, 178690
Kings Weston Lane Culvert	Small Span Structure	141.00	34464	353691, 178251
Kings Weston Lane East	Highway Overbridge	141.10	13458	353670, 178230
Gantry G9E	Sign/Signal Gantry	141.10	13461	353680, 178240
Gantry G10E	Sign/Signal Gantry	141.30	13463	353500, 178050
Gantry 11e	Sign/Signal Gantry	141.60	13464	353220, 177980
Avonmouth Interchange	Highway Underbridge	141.70	1756	352940, 178040
Gantry G24e	Sign/Signal Gantry	141.90	17388	352990, 178030
Avonmouth Interchange Culvert 'C'	Small Span Structure	142.00	15758	353092, 178021
Avonmouth Link Road Culvert	Small Span Structure	142.00	15757	353099, 177989
Gantry G17e	Sign/Signal Gantry	142.00	17389	352810, 178070
CCTV Mast 00041 48420 SB	CCTV Mast	142.10	26958	352750, 178055
Gantry G18e (A)	Sign/Signal Gantry	142.30	17390	352590, 178080
Gantry G18e (B)	Sign/Signal Gantry	142.30	17391	352620, 178100

## 1.9 Tunnels

There are two culverts and one pedestrian subway within the scheme extents.

## 1.10 Technology

Motorway communications do not run along the central reservation within the site extents, though they do cross the carriageway at MP142.2+90m, 142.0+40m, 141.7+25m, 141.4 and 140.4+50m. Refer to statutory undertakers information for further details.

## 1.11 Statutory Undertakers

For information on statutory undertakers apparatus refer to drawing no. HE570131D-KIER-GEN-M5\_TYS\_LOOP-DE-CH-000001 to 000003.

## 1.12 Traffic

Site	Reference	OSGR	AADT	HGV
TAME 30360106	link connector at M5 J18/M49/A4	E: 353187 N: 177999	14642	19.7%



TMU Site 5268/1	link M5 J18 southbound access from A4/A403	E:353206 N: 178201	9628	15.5%
TMU Site 5270/1	link M5 J18 southbound exit	E:353978 N:178814	9967	22.0%

FOR INFORMATION ONLY



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

## **Works Information for**

**570131 M5 J18 Asbestos survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
0	1	Reduced survey extents	ET	01/11/21

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## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principle objective of this project is to undertake specialist sampling and testing of the highway drainage assets at M5 J18 T, Y and S loops, at the locations (survey area) shown on drawing HE570131D-KIER-HRR-M5\_TYS\_LOOP-DE-CH-010001 to 010003 and provide subsequent reports in accordance with the requirements detailed in the specification.

a) Management Asbestos Survey Report

b) Asbestos Refurbishment Survey Report

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

### **1.2 Scope of works**

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

- (1) Undertake a detailed management asbestos survey and refurbishment survey of all drainage assets shown in the following location plan drawings HE570131D-KIER-HRR-M5\_TYS\_LOOP-DE-CH-010001 to 010003 and as per the specification in section 6:

### **1.3 Deliverables**

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

- (1) A copy of the completed desktop study reports
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from with photos and test results.

## 2 EXISTING INFORMATION

1.1.1 Known drainage assets have been identified on drawing HE570131D-KIER-HDG-M5\_TYS\_LOOP-DE-CH-050001 to 050003. This information available has been identified from HADDMS. It should be noted that this information has not been confirmed by previous surveys and therefore may be subject to inaccuracies.

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
HE570131D-KIER-GEN-M5_TYS_LOOP-DE-CH-000001	STATUTORY UNDERTAKERS PLAN SHEET 1 OF 3	C2
HE570131D-KIER-GEN-M5_TYS_LOOP-DE-CH-000002	STATUTORY UNDERTAKERS PLAN SHEET 2 OF 3	C2
HE570131D-KIER-GEN-M5_TYS_LOOP-DE-CH-000003	STATUTORY UNDERTAKERS PLAN SHEET 3 OF 3	C2
HE570131D-KIER-HRR-M5_TYS_LOOP-DE-CH-010001	SURVEYS SHEET 1 OF 2	C2
HE570131D-KIER-HRR-M5_TYS_LOOP-DE-CH-010002	SURVEYS SHEET 2 OF 3	C2
HE570131D-KIER-HRR-M5_TYS_LOOP-DE-CH-010003	SURVEYS SHEET 3 OF 3	C2
HE570131D-KIER-HDG-M5_TYS_LOOP-DE-CH-050001	EXISTING DRAINAGE SHEET 1 OF 3	C2
HE570131D-KIER-HDG-M5_TYS_LOOP-DE-CH-050002	EXISTING DRAINAGE SHEET 2 OF 3	C2
HE570131D-KIER-HDG-M5_TYS_LOOP-DE-CH-050003	EXISTING DRAINAGE SHEET 3 OF 3	C2

### **3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS**

#### **3.1 General**

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

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

- 3.2.1 The *Contractor's* working hours for site works shall be between the hours of 22:00 hrs and 05:00 hours.

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

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the following document;  
HE570131D-KIER-VGN-M5\_TYS\_LOOP\_A-CDM-CH-0001.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

##### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period. The contractor should refer to the Pre-construction Information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

FOR INFORMATION ONLY



## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works 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 *Employer* (see Section 5)
  - (iii) Survey to be undertaken concurrently with other survey activities where practicable to minimise traffic management requirements and disruption to public. The programme is to take this into account.
  - (iv) Survey results and report to be returned 2-3 weeks following completion of site works
- 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) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project
  - (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
  - (vi) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

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

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

- (1) Slip closures required for Y loop M5 SB entry and S loop SB entry, Lane 1 and Lane 2 closures for S loop (incl. M5 SB exit slip) as required for verge surveys and Lane 2 closures in both directions for T loop central reserve surveys.

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The *contractor* will be working under a CDM principal contractor, welfare facilities will be provided by the principal contractor.

FOR INFORMATION ONLY

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with: GG 184 - Specification for the use of computer aided design.

### **6.2 Asbestos Management Survey**

- 6.2.1 The surveys are to be carried out as per the Control of Asbestos Regulations 2012(CAR 2012) and the survey guide HSG 264. The survey is to include the areas indicated on the HE570131D-KIER-HRR-M5\_TYS\_LOOP-DE-CH-010001 to 010003.
- 6.2.2 Management asbestos survey report, in addition to production of new Asbestos Action Plan (AAP) is to be done as part of the deliverables.

### **6.3 Asbestos Refurbishment Survey.**

- 6.3.1 The Asbestos Refurbishment Survey is to be undertaken as the survey area which is indicated on drawing HE570131D-KIER-HRR-M5\_TYS\_LOOP-DE-CH-010001 to 010003.
- 6.3.2 The refurbishment survey is to be undertaken in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.3 Testing frequency is to be determined by the contractor and in agreement with HE
- 6.3.4 The contractor is to confirm access requirements necessary to complete the works to the employer prior to works being undertaken
- 6.3.5 Testing and subsequent reporting to be in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.6 The existing Annex 3 M5 J17-19 AAP is to be updated following testing in accordance with the employer's requirements



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

## **Site Information for**

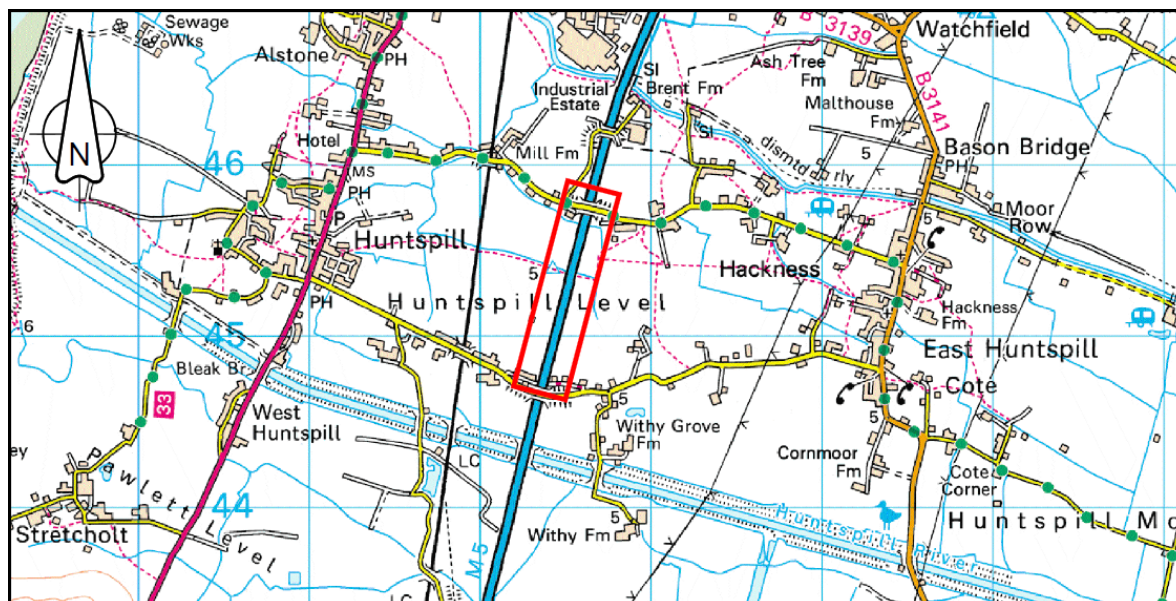
**570131 M5 J22-J23 SB Asbestos survey**

## 1 SITE INFORMATION

### 1.1 Site boundary, extents and access arrangements

#### 1.1.1 Site Location

The site is located along the southbound verge of the M5 between Junction 22 and Junction 23. MP 183.5 – MP 184.6. Refer to drawing nos. HE570131D-KIER-VGN-M5\_J22\_J23\_ML\_A-DR-CH-010001 and 010002.



#### 1.1.2 Site Boundaries

The site boundaries are constrained by the highway boundary defined by hedges, walls and fences.

#### 1.1.3 Access Arrangements

Access to be provided by Traffic Management. Traffic Management will be a lane 1 closure between the hours of 22:00 hours and 06:00 hours and be provided by Highways England.

### 1.2 Pavement

Made up carriageway construction through site extents.

### 1.3 Drainage

Existing drainage throughout the site extents within the southbound verge comprises of gullies linked to pipe systems. There is also a ditch running behind the verge throughout the majority of the site extents, it is set back approximately 10m from the carriageway edge.

## **1.4 Geotechnical**

The southbound verge is generally at grade between MP183.5 – 183.6, where beyond MP 183.6 the embankment varies in height between 0.7 – 1.5m with a slope gradient of 1 in 2.25 which is fairly consistent to MP 184.5.

## **1.5 Soft Estate and Environment**

Southbound verge consists of open grassland with scrub and occasional singular trees and tree clusters. The surrounding environment is predominantly rural, though there are a few residential properties within close proximity to the site extents.

## **1.6 Traffic Signs, Road Markings**

Traffic signs are located within the verge, there are also emergency roadside telephones and communication cabinets. The current carriageway road markings are installed to design standards and TSRGD 2016.

## **1.7 Lighting**

There is no street lighting within the site extents.

## **1.8 Structures and Buildings**

There are two structures within or just outside of the site extents:

New Road at 183.5+30m (within the site extents)

Withy Road at MP 184/6+30m (just outside the site extents)

## **1.9 Tunnels**

Not applicable

## **1.10 Technology**

Motorway communication cables are present within the southbound verge. Refer to statutory undertakers information for further details.

## **1.11 Statutory Undertakers**

For information on statutory undertakers apparatus refer to drawing nos. HE570131D-KIER-HGN-M5\_J22\_J23\_ML\_A-DR-CH-010004 and 010005.

## **1.12 Traffic**

Traffic Flows:

Southbound: AADT of 42777 with HGV usage of 13.2% (Webtris 2019)

Speed limits: National speed limit



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

## **Works Information for 570131D M5 J22-J23 SB Asbestos Testing**

**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	01/11/21



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## LIST OF ANNEXES

### Appendix 1 Supplementary Constraints

## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principle objective of this project is to undertake specialist sampling and testing of the highway drainage assets along the M5 between MP183/493 to MP184/57 SB Verge, at the locations (survey area) shown on drawing HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-DR-CH-010001 to 010002 and provide subsequent reports in accordance with the requirements detailed in the specification.

a) Management Asbestos Survey Report

b) Asbestos Refurbishment Survey Report

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

### **1.2 Scope of works**

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

- (1) Undertake a detailed management asbestos survey and refurbishment survey of all drainage assets shown in the following survey plan drawings HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-DR-CH-010001 to 010002 and as per the specification in section 6:

### **1.3 Deliverables**

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

- (1) A copy of the completed desktop study reports
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from with photos and test results.

## 2 EXISTING INFORMATION

- 2.1.1 Known drainage assets have been identified on drawing HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-DR-CH-010001 TO 010002. This information available has been identified from HADDMS. It should be noted that this information has not been confirmed by previous surveys and therefore may be subject to inaccuracies. The purpose of this survey is to identify the location/type/dimension of the existing drainage asset and its condition, within the works boundary identified on the aforementioned drawing.
- 2.1.2 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
HE570131D-KIER-HGN-M5_J22-J23_ML_A-DR-CH-000001	LOCATION PLAN	C1 / 10.02.2021
HE570131D- KIER-HGN-M5_J22-J23_ML_A-DR-CH-010004	STATUTORY UNDERTAKERS PLAN SHEET 1 OF 2	C1 / 10.02.2021
HE570131D- KIER-HGN-M5_J22-J23_ML_A-DR-CH-010005	STATUTORY UNDERTAKERS PLAN SHEET 2 OF 2	C1 / 10.02.2021
HE570131D-KIER-VGN-M5_J22-J23_ML_A-DR-CH-010001	SURVEYS SHEET 1 OF 2	C3 / 08.06.2021
HE570131D-KIER-VGN-M5_J22-J23_ML_A-DR-CH-010002	SURVEYS SHEET 2 OF 2	C3 / 08.06.2021

### **3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS**

#### **3.1 General**

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

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

- 3.2.1 The *Contractor's* working hours for site works 21:00 – 05:00.

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

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the following document;  
HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-CDM-CH-0001 &  
HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-CDM-CH-0002.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

##### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

##### Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period. The contractor should refer to the Pre-construction Information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

FOR INFORMATION ONLY

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works 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 *Employer* (see Section 5)
  - (iii) Survey to be undertaken concurrently with other survey activities where practicable to minimise traffic management requirements and disruption to public. The programme is to take this into account.
  - (iv) Survey results and report to be returned 2-3 weeks following completion of site works
- 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) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project
  - (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
  - (vi) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

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

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

- (1) Lane 1 and hard shoulders closures for verge works.

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The *contractor* will be working under a CDM principal contractor, welfare facilities will be provided by the principal contractor.

FOR INFORMATION ONLY

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with: IAN 184/16 Highways Agency Data & CAD standard.

### **6.2 Asbestos Management Survey**

- 6.2.1 The surveys are to be carried out as per the Control of Asbestos Regulations 2012(CAR 2012) and the survey guide HSG 264. The survey is to include the areas indicated on the drawing HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-DR-CH-010001 to 010002
- 6.2.2 Management asbestos survey report, in addition to production of new Asbestos Action Plan (AAP) is to be done as part of the deliverables.

### **6.3 Asbestos Refurbishment Survey.**

- 6.3.1 The Asbestos Refurbishment Survey is to be undertaken as the survey area which is indicated on drawing HE570131D-KIER-VGN-M5\_J22-J23\_ML\_A-DR-CH-010001 to 010002
- 6.3.2 The refurbishment survey is to be undertaken in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.3 Testing frequency is to be determined by the contractor and in agreement with HE
- 6.3.4 The contractor is to confirm access requirements necessary to complete the works to the employer prior to works being undertaken
- 6.3.5 Testing and subsequent reporting to be in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.6 The existing Annexe AAPs (020 AAP M5 J19\_J24) is to be updated following testing in accordance with the employer's requirements





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

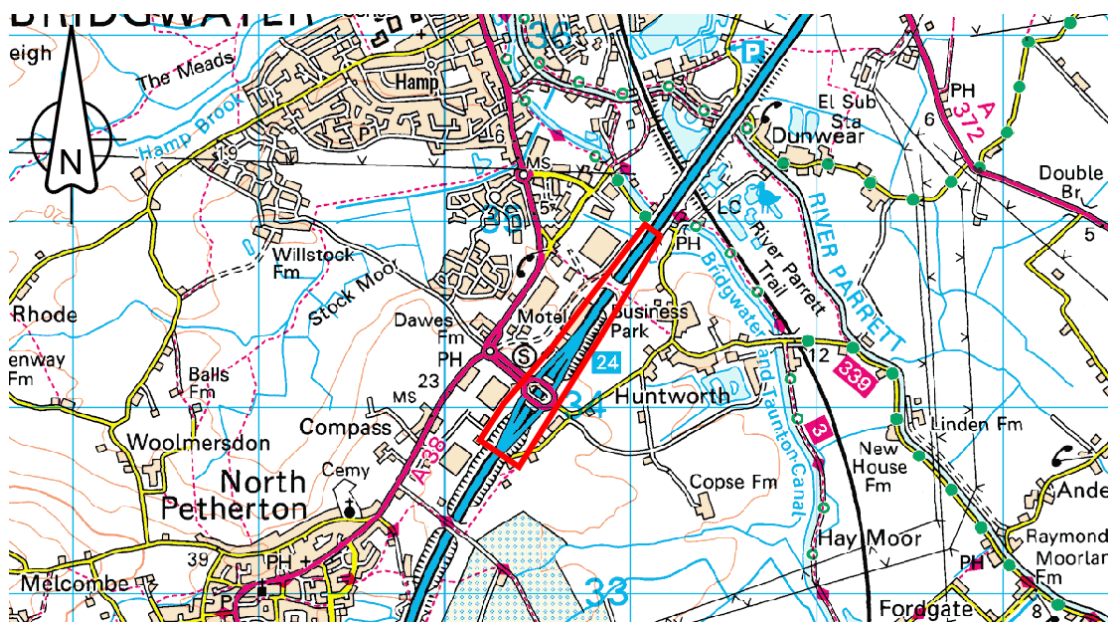
## **Site Information for 570131 Priority M5 J23-24 Both directions MP 195.1 to MP 196**

## 1 SITE INFORMATION

### 1.1 Site boundary, extents and access arrangements

#### 1.1.1 Site Location

The site is located at Junction 24 of the M5. MP 195.1 – MP 196.4.  
Refer to drawing no. HE570131D-VGN-M5\_J24\_CR-DR-CH-010001-02.



#### 1.1.2 Site Boundaries

The site boundaries are constrained by the highway boundary defined by hedges, walls and fences. The majority of survey works are confined to the central reservation.

#### 1.1.3 Access Arrangements

Access to be provided by Traffic Management. Traffic Management will be lane 3 both way closures between the hours of 22:00 hours and 06:00 hours and be provided by Highways England.

### 1.2 Pavement

Made up carriageway construction through the site extents. Central reservation is hardened between MP 195.1+45m and 195.2+60m.

### 1.3 Drainage

Existing drainage throughout the site extents within the central reservation is a gravity piped system with access through manholes and catchpits.

#### 1.4 Geotechnical

Not applicable as site is located within central reservation.

#### 1.5 Soft Estate and Environment

Soft estate within the central reservation is considered to be species poor grassland. The surrounding environment is rural on the southbound carriageway side and predominantly industrial but with residential properties a few hundred metres away on the northbound carriageway side.

#### 1.6 Traffic Signs, Road Markings

There are no traffic signs located within the central reservation. The existing carriageway road markings are installed to design standards and TSRGD 2016.

#### 1.7 Lighting

There is no street lighting within the site extents.

#### 1.8 Structures and Buildings

There are three overbridges located within the site extents:

Huntworth Lodge 195.3+80m – Key: 1831  
 Huntworth I/C North 196.0+0m – Key: 1832  
 Huntworth I/C South 196.10m – Key: 1833

#### 1.9 Tunnels

There are no tunnels or culverts within the scheme extents.

#### 1.10 Technology

Motorway communications do not run along the central reservation within the site extents, though they do cross the carriageway at MP195.1+20m and 196.1+30m. Refer to statutory undertakers information for further details.

#### 1.11 Statutory Undertakers

For information on statutory undertakers apparatus refer to drawing no. HE570131D-KIER-HGN-M5\_J24\_CR-DR-CH-010004-05.

#### 1.12 Traffic

Traffic flows:

Site	Reference	OSGR	Average ADT	HGV
TAME	Northbound on link M5 J23	E:332313	37793	13.0%

30360138	and J24	N:136951		
TMU Site 528/2	Southbound on link M5 J23 intra-junction	E:331564 N: 141572	32808	13.0%
TAME 30360140	Southbound on M5 J23 entry slip road	E:331528 N:141161	5016	No data
-	Combined Southbound data between J23 & 24	-	37824	13.0% assumed
TMU 5255/2	Northbound on link M5 J24 intra-junction	E:330362 N:133924	32095	12.7%
TMU 5256/2	Southbound on link M5 J24 intra-junction	E:330650 N:134292	32651	12.4%

FOR INFORMATION ONLY



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

## **Works Information for**

**570131 M5 J23-24 Both directions MP 195.1 to  
MP 196 Asbestos 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	01/11/21

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## LIST OF ANNEXES

### Appendix 1 Supplementary Constraints

## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principle objective of this project is to undertake specialist sampling and testing of the highway drainage assets along the M5 between MP195/1 to MP196/0 central reserve, at the locations (survey area) shown on drawing HE570131D-KIER-VGN-M5\_J24\_CR-DR-CH-010001 to 010002 and provide subsequent reports in accordance with the requirements detailed in the specification.

a) Management Asbestos Survey Report

b) Asbestos Refurbishment Survey Report

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

### **1.2 Scope of works**

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

- (1) Undertake a detailed management asbestos survey and refurbishment survey of all drainage assets shown in the following survey plan drawings HE570131D-KIER-VGN-M5\_J24\_CR-DR-CH-010001 to 010002 and as per the specification in section 6:

### **1.3 Deliverables**

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

- (1) A copy of the completed desktop study reports
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from with photos and test results.



## 2 EXISTING INFORMATION

- 2.1.1 Known drainage assets have been identified on drawing HE570131D-KIER-VGN-M5\_J24\_CR-DR-CH-010001 to 010002. This information available has been identified from HADDMS. It should be noted that this information has not been confirmed by previous surveys and therefore may be subject to inaccuracies. The purpose of this survey is to identify the location/type/dimension of the existing drainage asset and its condition, within the works boundary identified on the aforementioned drawing.
- 2.1.2 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
HE570131D-KIER-HGN-M5_J24_CR-DR-CH-000001	LOCATION PLAN	C1 / 10.02.2021
HE570131D- KIER-HGN-M5_J24_CR-DR-CH-010004	STATUTORY UNDERTAKERS PLAN SHEET 1 OF 2	C1 / 10.02.2021
HE570131D- KIER-HGN-M5_J24_CR-DR-CH-010005	STATUTORY UNDERTAKERS PLAN SHEET 2 OF 2	C1 / 10.02.2021
HE570131D-KIER-VGN-M5_J24_CR-DR-CH-010001	SURVEYS SHEET 1 OF 2	C2 / 08.06.2021
HE570131D-KIER-VGN-M5_J24_CR-DR-CH-010002	SURVEYS SHEET 2 OF 2	C2 / 08.06.2021

### **3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS**

#### **3.1 General**

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

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

- 3.2.1 The *Contractor's* working hours for site works 21:00 – 05:00.

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

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the following document;  
HE570131D-KIER-VGN-M5\_J24\_CR-CDM-CH-0001 &  
HE570131D-KIER-VGN-M5\_J24\_CR-CDM-CH-0002.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

##### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

##### Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period. The contractor should refer to the Pre-construction Information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

FOR INFORMATION ONLY

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works 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 *Employer* (see Section 5)
  - (iii) Survey to be undertaken concurrently with other survey activities where practicable to minimise traffic management requirements and disruption to public. The programme is to take this into account.
  - (iv) Survey results and report to be returned 2-3 weeks following completion of site works
- 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) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project
  - (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
  - (vi) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

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

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

- (1) Lane 1 and hard shoulders closures for verge works and Lane 3 SB/NB closures for central reservation works to be in place and moved as required

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The *contractor* will be working under a CDM principal contractor, welfare facilities will be provided by the principal contractor.

FOR INFORMATION ONLY

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with: IAN 184/16 Highways Agency Data & CAD standard.

### **6.2 Asbestos Management Survey**

- 6.2.1 The surveys are to be carried out as per the Control of Asbestos Regulations 2012(CAR 2012) and the survey guide HSG 264. The survey is to include the areas indicated on the drawing HE570131D-KIER-VGN-M5\_J24\_CR-DR-CH-010001 to 010002
- 6.2.2 Management asbestos survey report, in addition to production of new Asbestos Action Plan (AAP) is to be done as part of the deliverables.

### **6.3 Asbestos Refurbishment Survey.**

- 6.3.1 The Asbestos Refurbishment Survey is to be undertaken as the survey area which is indicated on drawing HE570131D-KIER-VGN-M5\_J24\_CR-DR-CH-010001 to 010002
- 6.3.2 The refurbishment survey is to be undertaken in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.3 Testing frequency is to be determined by the contractor and in agreement with HE
- 6.3.4 The contractor is to confirm access requirements necessary to complete the works to the employer prior to works being undertaken
- 6.3.5 Testing and subsequent reporting to be in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.6 The existing Annexe AAPs (020 AAP M5 J19\_J24 & 021 AAP M5 J24\_J27) is to be updated following testing in accordance with the employer's requirements



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

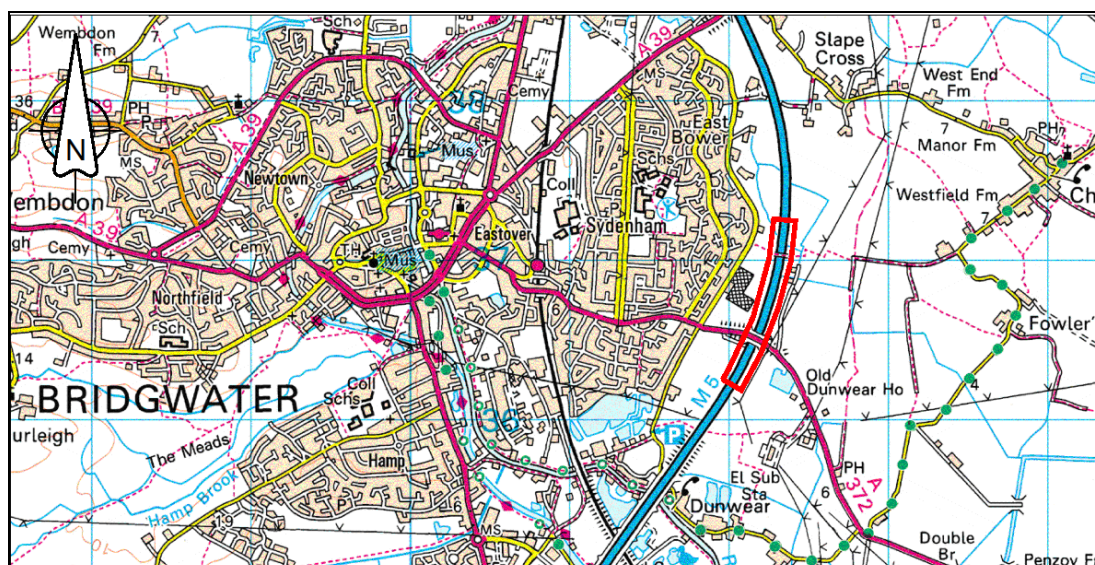
## **Site Information for 570131 M5 J23-J24 Both directions MP 192.4 to MP 193.6 Asbestos survey**

## 1 SITE INFORMATION

### 1.1 Site boundary, extents and access arrangements

#### 1.1.1 Site Location

The site is located within the central reservation of the M5 between Junction 23 and Junction 24. MP 192.3 – MP 193.6. Refer to drawing no. HE570131D-KIER-VGN-M5\_J23-24\_CR-DR-CH-010001-02.



#### 1.1.2 Site Boundaries

The site boundaries are constrained by the highway boundary defined by hedges, walls and fences. The majority of survey works are confined to the central reservation.

#### 1.1.3 Access Arrangements

Access to be provided by Traffic Management. Traffic Management will be lane 3 both way closures between the hours of 22:00 hours and 06:00 hours and be provided by Highways England.

### 1.2 Pavement

Made up carriageway construction through the site extents. Central reservation is paved between MP 192/9+20 and 193/0+50. and between MP 193/5+20 and 193/5+40.

### 1.3 Drainage

Existing drainage throughout the site extents within the central reservation comprises of gullies linked to pipe systems, edge channels and a drainage channel block.



#### **1.4 Geotechnical**

Not applicable as site is located within central reservation.

#### **1.5 Soft Estate and Environment**

Soft estate within the central reservation is considered species poor grassland. The surrounding environment is rural on the southbound carriageway side and mainly residential on the northbound carriageway side.

#### **1.6 Traffic Signs, Road Markings**

There are no traffic signs located within the central reservation. The existing carriageway road markings are installed to design standards and TSRGD 2016.

#### **1.7 Lighting**

There is no street lighting within the site extents.

#### **1.8 Structures and Buildings**

There are two overbridges located within the site extents:

Summer Drove Footbridge MP192.5+80m – Key: 1827

Westonzoyland Road MP193.1+10m – Key: 1829

#### **1.9 Tunnels**

There are two culverts located within the site extents:

Box Culvert 1828 MP192.7+0m – Key: 1828

Westonzoyland Culvert MP192.7+40m – Key: 24162

#### **1.10 Technology**

Motorway communications do not run along the central reservation within the site extents, though they do cross the carriageway at MP193.6+30m. Refer to statutory undertakers information for further details.

#### **1.11 Statutory Undertakers**

For information on statutory undertakers apparatus refer to drawing no. HE570131D-KIER-HGN-M5\_J23-24\_CR-DR-CH-010004-05.

#### **1.12 Traffic**

Traffic flows (Webtris 2019):

Site	Reference	OSGR	Average ADT	HGV
TAME 30360138	Northbound on link M5 between J24 & J23	E: 332313 N: 136951	37793	13.0%
TMU 5258/2	Southbound on link M5 J23 intra-junction	E: 331564 N: 141572	32808	13.0%
TAME 30360140	Southbound on slip at J23	E: 331528 N: 141161	5016	No data
-	Southbound on link M5 between J23 & J24 (estimated from above southbound loops)	-	37824	13.0% (assumed)

Speed limits: National speed limit



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

## **Works Information for**

**570131 M5 J23-J24 Both directions MP 192.4 to  
MP 193.6 Asbestos 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	01/11/21

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## LIST OF ANNEXES

### Appendix 1 Supplementary Constraints

## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principle objective of this project is to undertake specialist sampling and testing of the highway drainage assets along the M5 between MP192/4 to MP193/6 central reserve, at the locations (survey area) shown on drawing HE570131D-KIER-VGN-M5\_J23-24\_CR-DR-CH-010001 to 010002 and provide subsequent reports in accordance with the requirements detailed in the specification.

a) Management Asbestos Survey Report

b) Asbestos Refurbishment Survey Report

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

### **1.2 Scope of works**

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

- (1) Undertake a detailed management asbestos survey and refurbishment survey of all drainage assets shown in the following survey plan drawings HE570131D-KIER-VGN-M5\_J23-24\_CR-DR-CH-010001 to 010002 and as per the specification in section 6:

### **1.3 Deliverables**

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

- (1) A copy of the completed desktop study reports
- (2) A copy of the targeted asbestos survey report including the locations of where samples were taken from with photos and test results.

## 2 EXISTING INFORMATION

2.1.1 Known drainage assets have been identified on drawing HE570131D-KIER-VGN-M5\_J23-24\_CR-DR-CH-010001 to 010002. This information available has been identified from HADDMS. It should be noted that this information has not been confirmed by previous surveys and therefore may be subject to inaccuracies. The purpose of this survey is to identify the location/type/dimension of the existing drainage asset and its condition, within the works boundary identified on the aforementioned drawing.

2.1.2 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
HE570131D-KIER-HGN-M5_J23_J24_CR-DR-CH-000001	LOCATION PLAN	C1 / 11.02.21
HE570131D-KIER-HGN-M5_J23_J24_CR-DR-CH-010004	STATUTORY UNDERTAKERS APPARATUS SHEET 1 OF 2	C1 / 11.02.21
HE570131D-KIER-HGN-M5_J23_J24_CR-DR-CH-010005	STATUTORY UNDERTAKERS APPARATUS SHEET 2 OF 2	C1 / 11.02.21
HE570131D-KIER-VGN-M5_J23_J24_CR-DR-CH-010001	SURVEYS SHEET 1 OF 2	C2 / 24.05.21
HE570131D-KIER-VGN-M5_J23_J24_CR-DR-CH-010002	SURVEYS SHEET 2 OF 2	C2 / 24.05.21

### **3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS**

#### **3.1 General**

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

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

- 3.2.1 The *Contractor's* working hours for site works 21:00 – 05:00.

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

##### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the following document;  
HE570131D-KIER-VGN-M5\_J23-24\_CR-CDM-CH-0001 &  
HE570131D-KIER-VGN-M5\_J23-24\_CR-CDM-CH-0002.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

##### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

##### Risk Management



- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period. The contractor should refer to the Pre-construction Information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.

FOR INFORMATION ONLY

## 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works 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 *Employer* (see Section 5)
  - (iii) Survey to be undertaken concurrently with other survey activities where practicable to minimise traffic management requirements and disruption to public. The programme is to take this into account.
  - (iv) Survey results and report to be returned 2-3 weeks following completion of site works
- 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) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
  - (ii) activities associated with delivering the project
  - (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
  - (vi) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request.

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

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

- (1) Lane 3 NB/SB closures for central reservation works to be in place and moved as required.

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The *contractor* will be working under a CDM principal contractor, welfare facilities will be provided by the principal contractor.

FOR INFORMATION ONLY

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with: IAN 184/16 Highways Agency Data & CAD standard.

### **6.2 Asbestos Management Survey**

- 6.2.1 The surveys are to be carried out as per the Control of Asbestos Regulations 2012(CAR 2012) and the survey guide HSG 264. The survey is to include the areas indicated on the drawing HE570131D-KIER-VGN-M5\_J23-24\_CR-DR-CH-010001 TO 010002

- 6.2.2 Management asbestos survey report, in addition to production of new Asbestos Action Plan (AAP) is to be done as part of the deliverables.

### **6.3 Asbestos Refurbishment Survey.**

- 6.3.1 The Asbestos Refurbishment Survey is to be undertaken as the survey area which is indicated on drawing HE570131D-KIER-VGN-M5\_J23-24\_CR-DR-CH-010001 TO 010002
- 6.3.2 The refurbishment survey is to be undertaken in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.3 Testing frequency is to be determined by the contractor and in agreement with HE
- 6.3.4 The contractor is to confirm access requirements necessary to complete the works to the employer prior to works being undertaken
- 6.3.5 Testing and subsequent reporting to be in accordance with HSG264: HSE Asbestos: The Survey Guide
- 6.3.6 The existing Annexe AAP (020 AAP M5 J19\_J24) is to be updated following testing in accordance with the employer's requirements



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

## **Site Information for 570131 M5 J25-J26 Both directions MP 207.5 to MP 217.5 Asbestos survey**