

**National Asset Delivery
Technical Surveys and Testing**

**Works Information for A52 Priory QMC
Dunkirk MDP Surveying
GPR / Utility / Duct Proving survey**

CONTENTS AMENDMENT SHEET

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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 a GPR survey to PAS 128:2014 between Priory and QMC RBT's at location stated in drawings 605159-HE-VSS-A52 PRIORY-QMC-M2-EO-101 to 104* and provide subsequent report in accordance with the requirements detailed in the specification.

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 as follows:

- (i) The following information specifies the scope, survey type accuracy and deliverables required for this survey.
- (ii) The following surveys are to be carried out in accordance with PAS 128:2014. The details of how the specified survey type is to be carried out, including methodology and deliverables are included in this document. Further information is included below.

(iii) Type B survey

- Type B survey shall be undertaken using geophysical techniques to detect and identify utilities within the survey area in accordance with PAS128:2014 with the following parameters:
 - Quality level shall be QL-B1P with post processing. (Multiple geophysical techniques)
 - The verification shall be QL-A
 - The Method type shall be M3P with post processing (Passive and active EML and single/multi-channel GPR).
- The *Contractor* will be able to perform both the main topographical survey works required as detailed above and the utility detection works to reduce duplication of works.

(iv) Type A Survey

- A Type A survey shall be undertaken by inspection at access points such as in a manhole or inspection chamber to quality QL-A.

1.2.2 Following a type D and B survey the following underground utilities have been identified within the survey area at each site. Trial holes to be taken at the best location to fill in any gaps/discrepancies in coverage left by the

Type B survey and cover lifting, the table below indicates the expected number of trial holes at each location:

| Location | Underground Utilities Identified within survey area | Indicative Trial Holes Required |
|---|---|---|
| A52 Priory Roundabout to QMC Roundabout | See C2 Drawing(s) | 24 no. total trial holes within the extents of the survey area to locate the underground utilities identified. |
| A52 Priory Roundabout to QMC Roundabout | See C2 Drawing(s) | 8 (tbc) no. Transverse Trench Excavations (significant and comprehensively surveyed trial holes) within the extents to identify features for detailed footway widening design |

1.2.3 The quality level of trial holes shall be QL-A.

1.2.4 The *Contractor* will be able to perform both the main topographical survey works required as detailed above and the utility detection works to reduce duplication of works.

1.3 Deliverables

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

- (i) On completion of the survey, the *Contractor* shall supply, to the *Employer*, one clean set of CAD plans showing all the GPR test results. The plans shall be annotated to show any serious errors noted during the survey.

2 EXISTING INFORMATION

- 2.1.1 The Drawings listed in the table below detail the works to be undertaken as part of 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 Numbers | Title | Revision / Date |
|--|-----------------------------------|-----------------|
| 605159-HE-VSS-A52 PRIORY-QMC-M2-EO-101 to 106 NB: drawing ' <u>605159-HE-VSS-A52 PRIORY-QMC-M2-EO-104X</u> ' was included as an additional extents GPR requirement, thus this survey have 7 drawings, not 6. | Road Lighting Survey Locations | T0 |

Table references

| Table Number | Title | Revision / Date |
|--------------|---------------|-----------------|
| A1 | TST locations | V1 |

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 6.
- 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 within the provided roadspace (requiring liaison between *Contractor* and Principal Contractor) beginning 22/03/2021 (tbc) at 20:00 and ends on 03/04/2021 (tbc) at 06:00.
- 3.2.2 Refer to environmental assessment

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 relation to health and safety duties.
- 3.3.2 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. 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 can be found in Appendix 3 of works package.
- 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.

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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* (22/03/21 @ 20.00) and latest *completion date* (03/04/2021 @ 6.00) and any post site works, reporting and review period
 - (ii) The services and other things provided by *Employer* (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) 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) Programme of works
 - (iv) Working Hours shall be 20:00 – 06:00
 - (v) Weekend working is allowed for
 - (vi) All Traffic management is subject to traffic count taken on the night of the works.
 - (vii) The Principal Contractor is to ensure welfare facilities are to be in place prior to works commencing on site.
 - (viii) The *Contractor* is to allow for a prestart meeting on a date TBC, to develop the programme.
 - (ix) Survey results are expected to be returned within two weeks of the survey completing on site
- 4.1.5 The *Contractor* updates the programme every week. The *Contractor* submits an updated programme to the *Employer* upon request
- 4.1.6 Given the size of the site it is anticipated that several survey operations can be carried out simultaneously. The principal contractor is to programme the site works accordingly to minimize the programme which requires close liaison between PC and individual surveying contractors.

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) Temporary Traffic Management will be provided by others under the CWF by [REDACTED]. The Traffic Management is expected to consist of night-time traffic lights on the A52 at each site location, Contractor to confirm at pre-start meeting of this strategy suitability.

- (1) *Contractor* to liaise with *Employer* regarding the Temporary traffic management they require to carry out the works.

- (2) *Contractor* is to liaise with the *Employer* regarding access to site. *Contractor* is to communicate any access issues and how these may affect the work.

5.1.2 Road space on Highways England network is to be managed by the Principal Contractor.

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

- (1) Welfare facilities are to be provided by the Principal Contractor (HW Martin), needs are to be identified by the *Contractor* and communicated with the Principal Contractor.
- (2) Desktop search for utility information (Type D) survey. This information will be provided to the *Contractor* at the pricing stage.

6 SPECIFICATION FOR THE WORKS

- 6.1.1 The *Contractor* shall undertake the works in accordance with:
- 6.1.2 Buried utility survey to locate and verify underground utilities via scanning, GPR and trial holes in accordance with PAS 128:2014 Type A & B.

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