

National Asset Delivery Technical Surveys and Testing

Works Information for HE607429 A1 NB

Tuxford to Apleyhead Pavement –

Cores and DCP Surveys

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
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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 Coring and Dynamic Cone Penetrometer (DCP) at the locations stated in schedules and plans and provide subsequent reports and testing 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:
 - (1) Attendance at a pre-start meeting date to be confirmed
 - (2) Coring and DCP
 - (3) Reinstatement of core holes
 - (4) Indirect tensile stiffness modulus test (ITSM) testing to binder course layer
 - (5) Pak marker testing
 - (6) Subsequent potential testing for PAH
 - (7) Storage of cores
 - (8) Disposal of cores
 - (9) Coring backfill requirements:
 - Fully flexible Cold asphalt
 - Flexible composite Quick set concrete with at least 180mm asphalt on top
 - · Rigid with no asphalt surfacing Quick set concrete
 - Rigid with asphalt surfacing Quick set concrete at least 180mm asphalt on top
 - (10) Note all cold asphalt is to be compacted mechanically with a Kango.

1.3 Deliverables

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

Coring

- (1) Core logs should at least contain following information:
- (2) Core Number

- (3) Core Location (chart section, section chainage, marker post, position of core, lane, traffic direction, GPS coordinates)
- (4) Total core thickness
- (5) Thickness of each individual layer
- (6) Any missing layers
- (7) Material description of each individual layer
- (8) Condition of each individual layer (e.g. intact, voided, disintegrated, cracked, etc.)
- (9) Condition of the bonding between layers
- (10) Aggregate type of each individual layer
- (11) PAK-marker result of each individual layer as a positive or negative reaction
- (12) Nature of the material at the bottom of the core hole (e.g. crushed stone, gravel, etc.)
- (13) Photographs from a minimum of two angles
- (14) Photograph of the top of the core showing the surfacing
- (15) Photograph of core hole
- (16) All the cores should be kept for 12 months from the date of receipt of the core log for potential further required testing. They should be kept in the appropriate temperature and moisture content as per the standard laboratory practices.
- (17) All details are to be provided within a month of undertaking the surveys and supplied in electronic format. And kept by the contractor for a period of 1 year from the date of the original submission.

PAH test requirements

(18) Following the Pak marker testing the designer may request subsequent testing for Tar bound materials PAH 17 (USEPA 16 + Coronene) + Leachable Phenol (in line with the Adepts guidance "Managing Reclaimed Asphalt - Highways and pavements)

Dynamic Cone penetrometer (DCP)

- (19) DCP result should at least contain following information:
- (20) DCP Number (same as the corresponding core number)
- (21) Location (same as coring requirements)
- (22) Hole depth below ground surface
- (23) Thickness of disturbed material (where applicable)

- (24)Layer thickness
- (25)Accumulated No. of blows
- (26)Strength (mm/blow)
- (27)Calculated CBR
- (28)CBR graph

ITSM Testing

- TSM in HE60.

 The Contractor shall requirement in requirement in the contractor shall require ITSM tests to be carried out to the Binder layer of the cores as indicated in HE607429-KIER-VGN-A1-ML-Z-DE-CH-01-NB Schedules and plans.

2 EXISTING INFORMATION

- 2.1.1 The Drawings listed below apply to this contract.
- 2.1.2 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
HE607429-KIER-GEN- A1_A_TUXFORD_Z-DE-Z-0000-01 Location Plan	Location Plan	P01
HE607429-KIER-VUT-	Statutory	P01
A1_A_TUXFORD_Z-DR-CH-2700- 01- 07 STATS	Undertakers Plans (Sheet 1 to 7)	
HE607429-KIER-VGN-A1-ML-Z-DE- CH-01-NB	Schedules and Plans	

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 21:00 to 06:00hrs.
- 3.2.2 Provisional Road space availability begins on 27 April 2021 at 21:00 and ends on 01 May 2021 at 06:00.
- 3.2.3 Refer to Environmental Assessment for environmental constraints.

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 here HE607429-KIER-GHS-A1_A_TUXFORD_Z-HS-ZS-02 Pre-Construction Information.
- 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.
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 his tender and i. 3.3.7 with the delivery of the works including those identified by the Employer, with

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 (27/04/2021) and completion date (01/05/2021) 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
- ie every w yer upon requ 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) The assumed traffic management is as follows:
 - Full closure of the A1 Northbound dual carriageway between Apleyhead (A57/A614) and Tuxford (A6075) junctions.
 - Closure of all slip roads within the mainline carriageway closure extents.
 - Closure of lay-bys and central reserve gaps within the mainline carriageway closure extents.
- 5.1.2 The other things that will be provided by the *Employer* are as follows:
 - (1) Welfare facilities will be provided by the principal contractor (the TM provider).
 - Desktop search for utility information (PAS128 Type D) survey. This information will be provided to the contractor at the pricing stage. The contractor is not required to send out for this information again.

6 SPECIFICATION FOR THE WORKS

- 6.1.1 The Contractor shall undertake the works in accordance with National AD Technical Surveys & Testing contract documentation as well as the additional requirements:
- 6.1.2 Coring Surveys in accordance with DMRB CS 229 Section 6.
- 6.1.3 Dynamic Cone Penetrometer in accordance with DMRB CS 229 Section 6.
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 PAH 17 (
 Adepts guia.
 pavements). 6.1.4