**TOPOGRAPHICAL PAVEMENT SURVEY SPECIFICATION**

**1.1.0 AREA / REQUIREMENTS**

 The survey shall include:

* + 1. Topographical pavement survey for a given phase of the Music Walk of Fame indicated by a Phase Map
		2. Statutory underground utility trace including invert levels of all drainage covers, pipe sizes, direction of flow and identification.

**1.2.0 PERMANENT GROUND MARKERS**

Permanent ground markers (PGM) shall be established on stable features and co-ordinated to the National Grid. Levels of PGMs shall be related to Ordnance Datum Newlyn and based on the nearest available benchmarks, or directly from the GPS active network.

**1.3.0 STANDARDS & ACCURACIES**

 The survey shall be carried out in accordance with the requirements of BS EN ISO 9001: 2015.

1.3.1 PGMs

The error between PGMs shall not exceed 1:20000. For distances between PGMs of less than 300m the error shall not exceed +/-15mm. The height difference between PGMs shall not exceed +/-(12Ök)mm, where k is distance in kilometres, or +/-5mm, whichever is the greater.

1.3.2 PLANIMETRY

The absolute plan position of any well defined point of detail shall be correct within +/-0.3mm r.m.s.e. at the plan scale when checked from the nearest control point.

1.3.3 LEVELS

Spot levels on hard surfaces shall be correct to +/- 10mm r.m.s.e. and elsewhere to +/- 25mm except on ploughed or otherwise broken surfaces.

**2.0 DETAILED REQUIREMENTS**

1. Location of permanent ground markers with co-ordinates and levels quoted against all permanent stations.
2. Boundary features, walls, fences, hedges etc. with description, heights and widths, where applicable.
3. Outlines of existing buildings and structures, bases, and hardstandings.
4. Road verges, kerbs, dropkerbs, lay-bys, traffic islands, pavements and footpaths, with surface changes annotated.
5. Street furniture, bollards, guardrailing, gates, fences, seats, benches, outline of tables, planters and cycle parking etc., manhole covers, road gullies and visible service features, including overhead. All manhole covers. At least 3 corners are to be surveyed and cover to be orientated correctly on plan. Description for manhole covers should state type of provider i.e. “Telecoms”, “Electric”, “Gas”, “Water”.
6. Rainwater pipes, down pipes\and soil vent pipes.
7. Slopes, earthworks, banks and ditches.
8. Individual trees with girth and spread drawn together with heights annotated. Encroaching trees.

**2.1 ADDITIONAL REQUIREMENTS**

1. The Topographical Pavement Survey will also include the outlines of Table and Chairs Licenses and any other specific areas of use in accordance with the requirements of the Local Planning Authority.

**2.2** **LEVELS & HEIGHTS**

Levels shall be recorded across the site at approximately 5-10m centres, additional levels will be surveyed to accurately represent site topography.

1. **PRESENTATION**

The above shall be supplied as a 1:200 AutoCAD 2010 drawing files (where one CAD unit equals one metre) as an e-mail attachment. An indicative north point shall be added.

**4.0 PROGRAMME**

The survey can commence within 14 working days of a formal order and would anticipate completion approximately 14 working days thereafter with the actual programme agreed prior to commencement.

1. **ACCESS**

Access is assumed to be available to all areas between normal business hours.