

**National Asset Delivery
Technical Surveys and Testing**

**Site Information for 570122
M49 J22-18A SB MP 0 – 8.4 RS
GPR Survey**

1 SITE INFORMATION

1.1 Site boundary, extents and access arrangements

The survey is to be undertaken on the M49 between Junction 22 and Junction 18A Southbound MP 0 – 8.4. It includes two-lanes of a motorway. All works are within Highways England's Boundary. Access to the site will be via the Temporary Traffic Management (TTM). The location plan is shown on Figure 1.

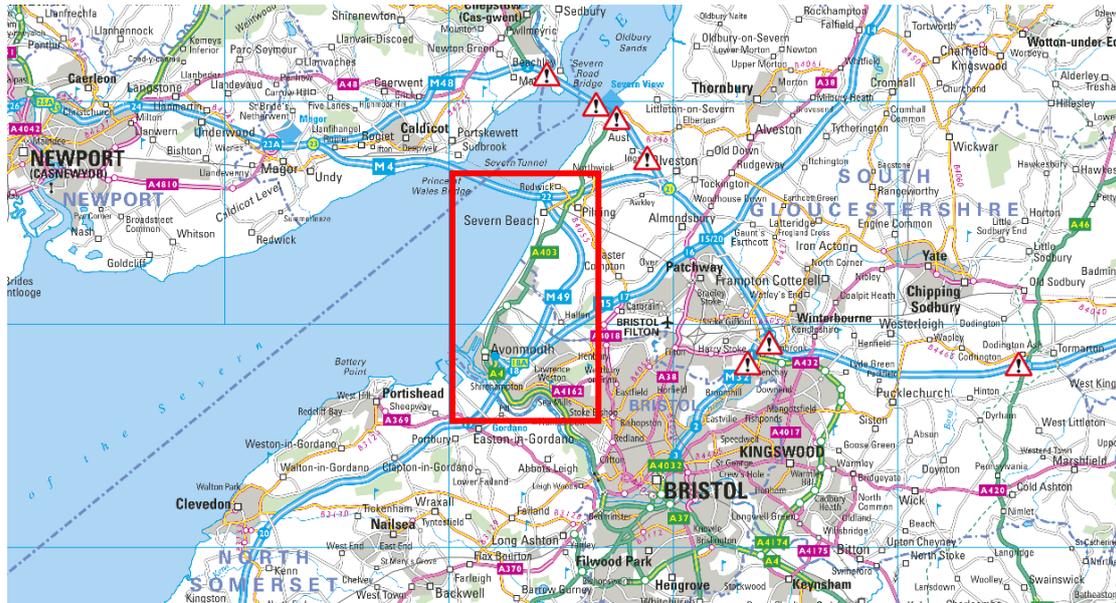


Figure 1: Location Plan

The road is subject to minor fretting, patch, potholes, rutting, construction joints, open joints. Longitudinal and transverse cracks have also been identified. Within the scheme extents, there are twenty-three following list of structures as stated below:

Structure	Structure Type	Structure Key
Green Lane Culvert (Not a Bridge)	Small Span Structure	34475
Green Lane (Highway Overbridge)	Bridge & Large Culvert	13376
Severn Tunnel Culvert (Not a Bridge)	Small Span Structure	34478
Church Road Footbridge (Footbridge)	Bridge & Large Culvert	13378
A403 Severn Beach (Footbridge)	Bridge & Large Culvert	13379
Bristol Water Culvert (Large Culvert)	Bridge & Large Culvert	13380
Edsleigh Farm (Highway Overbridge)	Bridge & Large Culvert	13381
Middle Compton Rhine (Not a Bridge)	Small Span Structure	34473
Noor Rhine (Not a Bridge)	Small Span Structure	34481
Farm Lane (Highway Overbridge)	Bridge & Large Culvert	13382
Red Rhine (Not a Bridge)	Small Span Structure	34479

MINORS LANE (Not a Bridge)	Small Span Structure	34472
Poplar Farm Culvert (Not a Bridge)	Small Span Structure	34480
Severn Road Hallen (Highway Overbridge)	Bridge & Large Culvert	13386
Moorhouse Lane (Highway Overbridge)	Bridge & Large Culvert	13388
Hallen Trough (Not a Bridge)	Service Crossing & Other Structures	13387
Poplar Farm (Highway Overbridge)	Bridge & Large Culvert	13425
Lawrence Weston Culvert (Not a Bridge)	Small Span Structure	34474
Lawrence Weston Subway (Pedestrian Subway)	Bridge & Large Culvert	13432
Frome Valley Sewer (HA own/maintain support slab) (Not a Bridge)	Service Crossing & Other Structures	13433
M49 Southbound (Highway Underbridge)	Bridge & Large Culvert	13434

For further details, please refer to Scheme Drawings – ‘225 – M49 J22-18A SB MP 0 - 8.4 RS Defect & Treatment Plan’.

1.2 Pavement

M49 J22-18A SB MP 0 – 8.4 Pavement both consists of a Hot Rolled Asphalt (HRA) and Thin Surface Course System (TSCS) laid back in between 1996 and since 2014 respectively.

1.3 Drainage

There are Highway Drainage Systems present within the scheme extents. For further details, please refer to STATS Drawings attached with Pre-Construction Information Pack (PCIP).

Pre-survey STATS check shall be undertaken prior to GPR Survey. However, it is anticipated that the survey work will not interface with any drainage apparatus.

1.4 Geotechnical

N/A

1.5 Soft Estate and Environment

N/A

1.6 Traffic Signs, Road Markings

N/A.

1.7 Lighting

N/A

1.8 Structures and Buildings

There are structures within the proposed survey works.

1.9 Tunnels

N/A

1.10 Technology

N/A

1.11 Statutory Undertakers

There are Statutory Undertakers within the scheme extents. For further details, please refer to STATS Drawings attached with Pre-Construction Information Pack (PCIP).

1.12 Traffic

According to WebTRIS 2018-2019, this section of the motorway has typical 24hr AADT of 12,001 and 12.8% of HGV.

In order to provide a safe working area, Temporary Traffic Management (TTM) will be provided by the Employer through the Construction Works Framework.