

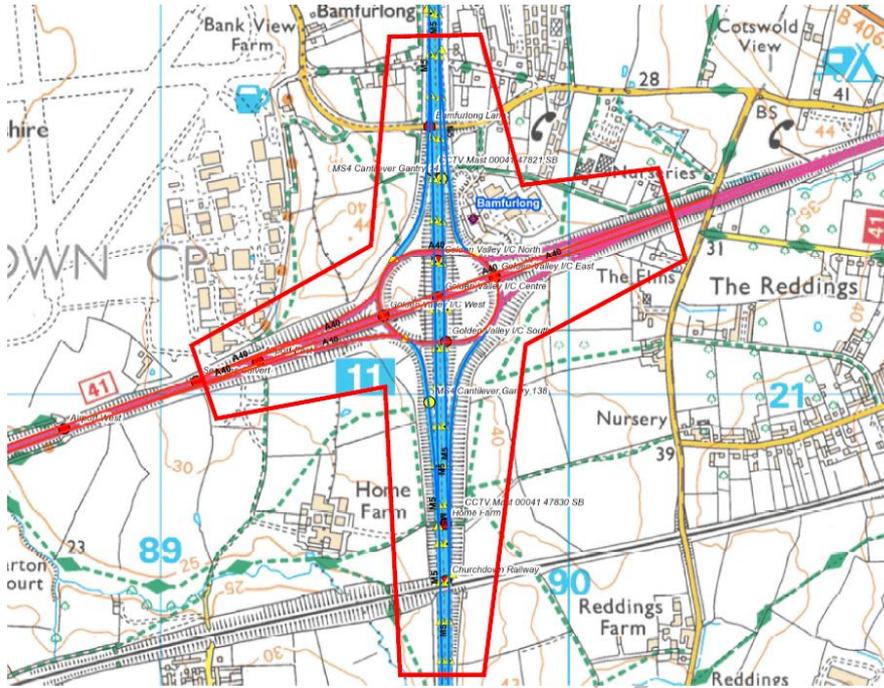
**National Asset Delivery  
Technical Surveys and Testing**

**Site Information for:  
569549 M5 J11 Capacity Improvements  
Drainage Surveys and Assessments**

## 1 SITE INFORMATION

### 1.1 Site boundary, extents and access arrangements

The site is the M5 Junction 11, including the M5 mainline, the junction circulatory and the A40 APTR. The scheme extents are between M5 81.700 – 83.400km and A40 160.900 – 162.300km. The site is only accessible with suitable traffic management in the form of hard shoulder closures as a minimum.



Overview of site extents

### 1.2 Pavement

The M5 in this locality is 3-lane carriageway, with hard shoulder in both directions, with an approximate carriageway width of 30m. The carriageway passes through sections of cutting, embankment and at grade topography .

The A40 is dual carriageway in both directions, sited predominantly upon embankment throughout this location.

### 1.3 Drainage

Drainage within the scheme extents consists primarily of slip-formed kerb line or concrete edge-channel, collected by gullies on the northbound and southbound carriageway hard shoulder, and some filter drains in the central reservation and both carriageway verges.

#### 1.4 Soft Estate and Environment

Both the M5 and A40 carriageways are bordered along its entire length with grass verge of varying widths. The land immediately beyond the highway verge is comprised of medium to large trees, surrounded by dense scrub and low-level bush in close proximity to the edge of the carriageway.

#### 1.5 Traffic Signs

Various traffic signs and VMS are located throughout the scheme extents on both the M5 and A40 verges, and in the central reservation. These are unlikely to conflict with the required surveys.

#### 1.6 Lighting

There is no street lighting furniture present at M5 Junction 11, on either the M5 or A40 carriageway.

#### 1.7 Structures and Buildings

Structure	Type	Location Ref	Str key	OSGR
Rail Overbridge at 83.200km	Overbridge	M5 MP 83/2	1669	389700E 220540N
Home Farm Overbridge at 83.050km	Overbridge	M5 MP 83/05	1668	389700E 220680N
Bamfurlong Lane Overbridge at 82.100km	Overbridge	M5 MP 82/1	1664	389660E 221660N
Golden Valley Interchange North Overbridge 82.400km	Overbridge	M5 MP 82/4	1665	389680E 221330N
Golden Valley Interchange Centre Overbridge 82.500km	Overbridge	M5 MP 82/5	1666	389682E 221239N
Golden Valley Interchange South Overbridge 82.600km	Overbridge	M5 MP 82/6	1667	389700E 221130N
Golden Valley Interchange West Overbridge 161.750km	Overbridge	A40 MP 161/75	6688	389548E 221193N
Golden Valley Interchange East Overbridge 161.450km	Overbridge	A40 MP 161/45	6687	389820E 221288N
Airport East Underbridge 162.100km	Underbridge	A40 MP 162/1	6689	389240E 221080N
A40 West Services Culvert 162.200km	Culvert	A40 MP 162/2	6690	389090E 221032N

## 1.8 Statutory Undertakers

Drawing Number:	Title	Valid Until
TOPO1250_M5_196_3613	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_196_5581	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_196_5582	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_196_5583	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_197_3615	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_197_3616	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_197_3617	M5 C2 Stats Service Locations	16-10-19
TOPO1250_M5_197_4392	M5 C2 Stats Service Locations	16-10-19
TOPO1250_A40_42_4388	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_42_4389	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_42_4390	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_42_4391	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_43_3614	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_43_3837	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_43_4376	A40 C2 Stats Service Locations	16-10-19
TOPO1250_A40_43_4377	A40 C2 Stats Service Locations	16-10-19
Jacobs Option 7A-201	A40 EB to M5 NB Existing Services	1-05-19
Jacobs Option 7A-202	M5 SB to A40 EB Existing Services	1-05-19
Jacobs Option 7A-203	M5 NB to A40 WB Existing Services	1-05-19

Note: Although now out of date, Jacobs Stats drawings have been included (for reference) as the drawings include Jacobs Design overlay for both current options. But – these will need to be verified against the most recent Stats drawings.

## 1.9 Traffic

Traffic flows Northbound circa 43000 AADT, with HGV content >6.6m 18%.

Traffic flows Southbound circa 44000 AADT, with HGV content >6.6m 16%.