



## Project: Aco-Drain Survey Junction 15, M40 Highways

<b>Location</b>	Junction 15 M40 Northbound, Warwick
<b>Client</b>	M40 UK Highways (UKH)
<b>Date</b>	June 2019
<b>Category</b>	Highways Drainage Surveys

### Project Summary

Project Activity: As-built survey to Aco-drain.

Hours of Works: Nighttime working

### Summary of Works:

In June 2019 Crown Plus (Crown Plus) were commissioned by M40 UK Highways (UKH) to undertake an as-built survey of an existing Aco-drain which was located between the slip road and lane 1 of the M40 northbound at junction 15.

Whilst in discussions with UKH regarding the commission Crown Plus Contracts Director undertook a preliminary risk assessment to inform the pricing of the project and its scope. At this stage a desktop study was conducted together with a drive-through survey at traffic speed which identified that multiple gratings had collapsed and were in need of replacement, and that the Junction 15 northbound exit slip would require a full closure along with a lane 1 & 2 closure on the northbound carriageway.

Crown Plus undertook the drainage technical surveys over a one-night period acting as principal contractor under the CDM regulations, including provision of a Welfare Van and appointment of traffic management subcontractor.

Following the survey an as-built drawing in AutoCAD was produced for UK Highways which identified 120m of drain requiring replacement. In collaboration with UKH the commission was extended with Crown Plus appointed principal contractor for the necessary drain replacement works.



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## Full Programme Details

Once the commission was formalised, the initial work was transferred into Risk Assessment Method Statements (RAMS) document. Key risks identified included:

- High speed road with leaving and joining traffic
- Work between two live lanes
- Night working
- Covid-19 precautions

As principal contractor, Crown Plus appointed the traffic management contractor. As with all contractors who work for us, we have a requirement for them to complete our supply chain questionnaire. This questionnaire requires the supplier to provide information that covers:

- Health & Safety Management & Policy
- Environmental Management & Policy
- Training & Awareness
- Compliance & Risk
- Accident Statistics

Following this assessment Crown Plus appointed Quantum Traffic Management to provide traffic management.

### Traffic Management

Informed by the drive-through survey and following a desktop study it was evident that Junction 15 northbound exit slip would require a full closure along with a lane 1 & 2 closure on the northbound carriageway. This would ensure all the information required to produce an as-built drawing suitable for the design team to use could be produced.

Quantum Traffic Management produced the traffic management plans required.

These traffic management drawings were shared with the local authority (Warwickshire County Council), EGIS (maintenance contractor for M40) and Kier Area 9 to ensure there were no clashes with other works taking place adjacent to or on the diversion route. A date for the survey was subsequently agreed with all parties.

### Planning the site survey

In order to provide an up-to-date AutoCAD drawing we were required to identify the following from the initial site survey its:

- physical dimensions
- current structural condition
- current specification
- current outfall details
- catchment area

### Undertaking the survey

As principal contractor our Contract Director oversaw the preparation of the Construction Phase Plan which consisted of:

- Description of the project
- Management arrangements
- Arrangements for controlling site Health & Safety Risks
- Arrangements for the preparation of the Health & Safety File
- Appendices including RAMS, COSHH Assessments, location of A&E Hospitals

Crown Plus were also responsible for providing Welfare which in the instance was a welfare van. Once the CPP was approved by the client we arranged and undertook the survey works.

Full Programme Details (cont.,)

**Induction/Briefing & COVID Compliance.**

All contractors involved in the scheme were briefed on the contents of the CPP and the RAMS. They were then requested to sign a copy of the briefing sheet. Additional copies of the CPP were made available for each respective principal contact to take away for use with their own site teams when briefing the works. Copies of the briefing sheets were retained for the Health and Safety File.

In addition, COVID 19 self-assessment forms and risk assessments were circulated to all attending site.

**Output of survey**

Following the survey Crown Plus produced an as-built drawing in AutoCAD for UK Highways which identified 120m of drain required replacement. In collaboration with UKH the commission was extended, with Crown Plus appointed principal contractor for the drain replacement works.