



METHOD STATEMENT

Reference	IND602 – Quote 1238
Site Address	29 Snailbeach Shrewsbury SY5 0NS
Description of work	Excavation in carriageway for installation of new 150mm foul sewer connection in to existing 150mm sewer run
Work Commences on	September 2023
Duration	2 days

This Method Statement should be read along with the following documentation

Evans Construction Documentation

Site Specific Risk Assessment IND602-RA-01 Rev01
COVID-19 Risk Assessment Rev03

Sequence of Work

Operatives will be briefed on the contents of this Method Statement and associated Risk Assessment and will sign the briefing form to confirm they understand the contents.

Location of works





Traffic Management

Road closed signs, men at work signs, Chapter 8 barriers and COVID-19 social distancing signs will be erected at either end of the works area prior to works commencing.

Access will be maintained for properties on the road. Steel road plates will be kept available on site and used to cover excavations when access is required.

Welfare Compound and Materials Storage Area

A towable groundhog unit will be placed off the carriageway.

Heras fencing and signage will be erected around the materials storage area and welfare area.

Laying of foul sewer

Supervisor will take photographs of each stage of the works for reference and records.

All excavations will be carried out in accordance with HSG47. The carriageway will be scanned using a Cable Avoidance Tool (CAT) Scanner. Where services are known to be present, or identified with a cable avoidance tool, trial holes will be dug to determine the location and depth of services. These areas will be identified and marked and excavated only by hand dig using insulated tools. The CAT scanner will be used repeatedly throughout the duration of the works, at intervals not exceeding 300mm.

A 'Permit to Dig' will be issued by the Contracts Manager prior to excavation starting.

The line of the excavation will be marked with spray paint and then saw cut using a floorsaw.

Excavation will begin at the existing sewer in the carriageway (unadopted) and progress towards the boundary at the rear of 29 snailbeach.

The trench will be excavated using a 5T tracked excavator with a breaker attachment.

When the excavation reaches 1m in depth, or as ground conditions dictate, trench support will be installed. Trench support will extend 1m above the top of the excavation to act as edge protection and prevent falls. The excavator operator will then carry on excavating to the required level. Operates are not to enter any unsupported excavation over 1.2m in depth.

All arisings will be loaded in to a dumper and stockpiled off the highway (to be loaded off site at a later date).

The base of the trench will be trimmed and compacted. 100mm depth of pipe bedding gravel will be laid in the base of the trench. And levelled to accommodate the pipe.

A 150mm foul pipe will be laid to the required fall. Pipe bedding will then be placed at the sides of the pipe and compacted by hand. The pipe surround material will be placed carefully in the same manner, to a level of 30 cm in two layers above the crown of the pipe

The excavation is to be backfilled as soon as is practical with type 1 MOT, which will be placed into the excavation using the 360 excavator and compacted in accordance with the Specification using a suitable vibrating plate compactor in layers not exceeding 300mm. Any trench support will be progressively withdrawn during this operation.



This process will be repeated in sections.

Where excavations are left open, they will be barriered off and covered with road plates.

Dates for inspections will be notified in advance of works

Connection in to existing sewer (Approx 1m deep)

Connection to the existing sewer will be made by exposing and cleaning around the existing pipe.

Deal with existing flow (minimal) then cut out section of existing V.C. pipe. **By use of Stihl saw**

Fit band seals to each side and then install oblique junction and slide band seals into position.

Tighten band seals and set junction in to required line and level.

Pack junction with 10-14mm granular bed and surround

Confined Spaces Access Equipment will be set up and used for all entry into the manhole chamber if required.

Once the pipes are in position and surrounded as per the Specification using the specified pipe bedding and surround, the excavation is to be backfilled as soon as is practical with the specified material which will be placed into the excavation using the 360o excavator and compacted in accordance with the Specification using a suitable vibrating plate compactor or roller. Subject to the resultant depth of the excavation, any trench support will be progressively withdrawn during this operation.

A suitable inspection date will be arranged by giving sufficient notice to STWA

Reinstatement

After pipework has been completed and trenches backfilled, the trench will be reinstated using 6mm surface course.

After works have been completed, all traffic management, fencing and welfare cabin will be removed from site. The compound area will be reinstated to its previous condition.









Tools, Plant and Equipment	
5T Excavator	Digga Rentals
3T Dumper	Digga Rentals
Vibratory Concrete Poker	Griffiths Hire Shops
14" Floorsaw	Griffiths Hire Shops
Compactor Plate	Griffiths Hire Shops
2" Submersible Pump and Generator	Evans Construction
Heras Fencing and Site Signs	Evans Construction
Edge Protection and Trench Support	Evans Construction
Lifting Accessories (Chains, Slings etc.)	Evans Construction
Welfare Cabin	4M Portable Buildings

Materials	
150mm foul pipe and fittings & bandseals	TG Builders Merchants
Type 1 MOT	Hanson Aggregates
AC6 Surface Course	Tarmac



PPE Required

Operatives to wear PPE at all times. Hi-viz trousers, hi-viz long sleeve vest, safety helmet and safety boots as a minimum at all times. Other PPE to be worn as required for specific tasks.

 Head	 Foot	 Hi Viz	 Hand	 Eye	 Hearing	Other
Yes EN397	Yes EN345	Yes Class 3	Yes (task dependant)	Yes EN166 (Task dependant)	Yes EN352 (Task dependant)	FFP3 Dustmask (Task dependant)

Hazards Relating to Connection to Live Sewer

Contamination from sewage (Weils Disease)	
Risk of flooding due to rain – Continual monitoring of weather forecast	
Working in an excavation (unadopted road)	
Potential for confined space working	
Potential aggressive trade effluent, petrol etc entering system	

Construction Dust

Will the work create dust or fumes?	Yes
Identify specific control measures to avoid or control dust or fumes	All cutting to utilize dust suppression
Identify respiratory protective equipment required if dust or fumes cannot be avoided	FFP3 dust mask, goggles and gloves to be worn while cutting.

Hazardous Materials

Are hazardous materials to be used?	Yes
Are COSHH sheets available?	Yes 001 Bituminous Road Materials



	005 Unleaded Petrol 006 Diesel and Gas Oil 012 Readymix Concrete
Identify or attach specific control measures from COSHH Assessment	As identified on COSHH Assessments

Permit Required					
Permit to work (General)	No	Confined Space Permit	No	Excavation Permit	Yes
Hot-work permit	No	Out of hours permit	No	Other	N/A



Method Statement Briefing Register					
Project		Activity			
Date					
I confirm that I have been inducted on to this site and understand the requirements and obligations that are placed upon me. If I have any questions or medical conditions likely to affect me, I will raise these with the site supervisor. I confirm that I am not unduly fatigued or under the influence of illegal drugs, medicated drugs or alcohol.					
Date	Name	Company	Occupation	Approved competency cards held	Inducted by