



# Drainage Investigations Report

Report number 1244791  
Client Crawfords  
Site 6 Nicholas Way, Northwood, Hillingdon  
Client Ref SU2205005  
Date of Visit 14/03/2023

3 Boundary Court, Willow Farm Business Park  
Castle Donington  
Leicestershire  
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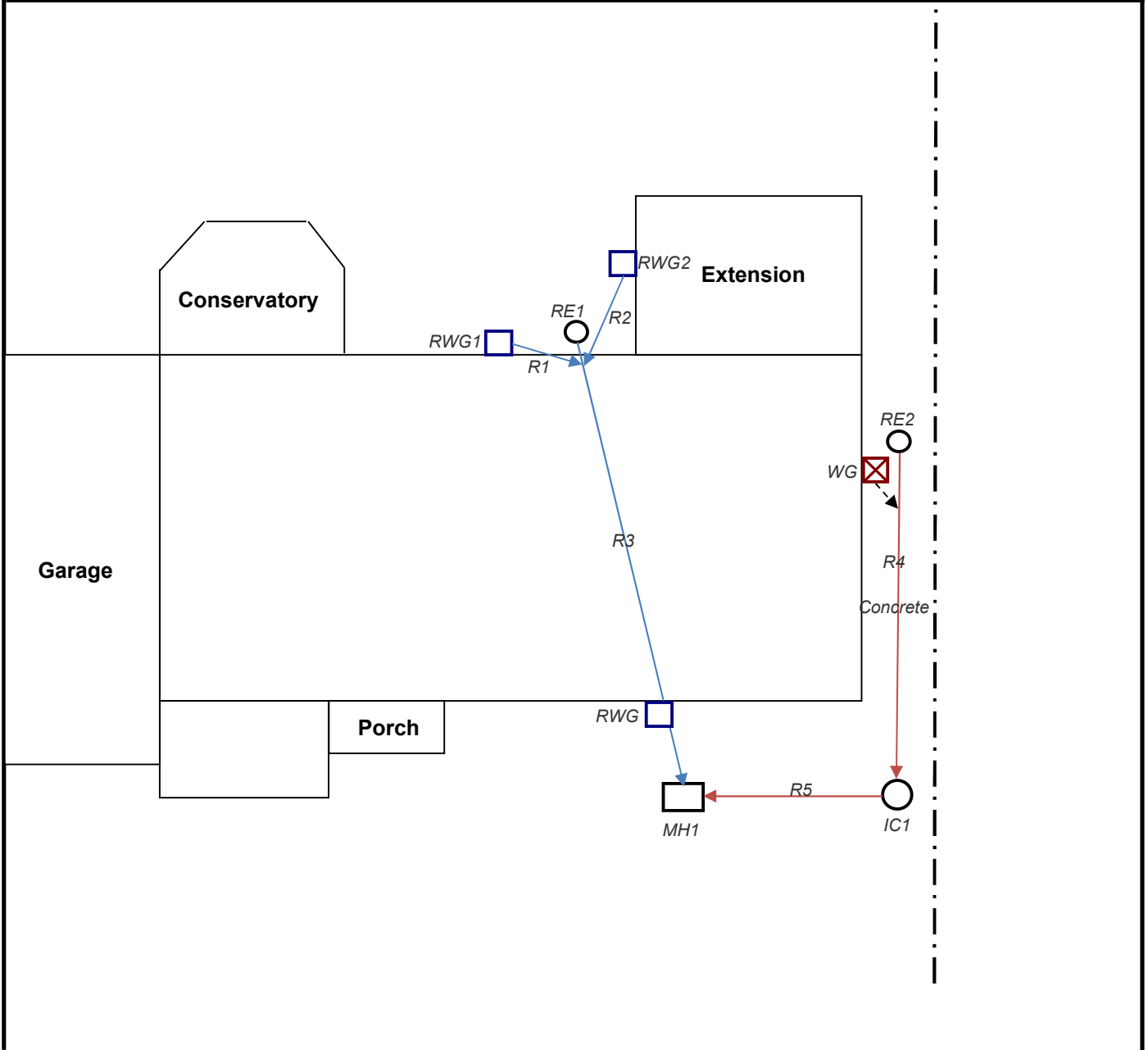
CET is the trading name of CET Structures Limited  
Registered in England No 02527130





# SITE AND DRAINAGE LAYOUT

Visit Date: 14/03/2023



General Comments:

*(This plan is not to be scaled and is provided to illustrate general layout only)*



To:	<b>Crawfords</b>	Client Ref:	SU2205005
Ftaco:		Job No.	1244791
Site:	<b>6 Nicholas Way</b>	Claim No:	
		Date:	17-May-23

**ESTIMATE**

Item	Amount
1.0 Location Shared System Condition Grade Drain Serviceability Work Spec	£551.84
<b>RE1 Downstream to MH1 Run 3</b> No  RE1 Downstream to MH1 Run 3 - Install patch liner at 4m downstream to cover defect. HPWJ the remainder of the run to MH1, CCTV survey downstream and report findings from site.	

**Notes**

Repairs to shared runs and off boundary pipe-work may be the responsibility of the water authority.

Total £551.84

**Condition Grade**

- A - Structurally sound with no leakage evident.
- B - Cracks and fractures observed.
- C - Structurally unsound

plus VAT @20% £110.37

**Total + VAT £662.20**

Quotation is binding only if accepted within 28 days from date of issue and is subject to our Standard Terms and Conditions  
The price qualification notes, stated on the drainage solutions schedule of rates, apply to this quotation.  
CET Structures Ltd undertakes to return to site free of charge to carry out remedial work to the drainage repairs set out above for a period of 2 months from the date of this invoice. The company standard charge rates will apply to the visit should the work requested be unrelated to the said repairs.

<b>ESTIMATING &amp; COSTING SHEET - DOMESTIC DRAINAGE</b>		Client Ref	SU2205005		
Site:-	6 Nicholas Way	Job No.	1244791		
Client :-	<b>Crawfords</b>	Claim No			
		Date			
		Recommendation	1		
Description		Unit	Qty	Rate	Amount
<b>Rate Code</b>	<b>RE1 Downstream to MH1 Run 3</b>				
<b>TITLE</b>	<b>Survey</b>				
SN0511	CCTV Survey of underground drainage & report - including up to 1 hr HP Water Jetting or other cleaning.	nr	1	£183.38	£183.38
SN0530	High Pressure Water Jetting - Additional 1/2 hours on site.	1/2hr	2	£26.55	£53.11
<b>TITLE</b>	<b>Preparations / General Groundworks / Reinstatements</b>				
SN0025	Protection Temporary works to floors, 1000 gauge polythene.	m2	2	£1.83	£3.67
<b>TITLE</b>	<b>Drain Lining</b>				
SN1180	Patch Lining. Up to 2 m x 100mm diameter	nr	1	£311.68	£311.68
<b>Total subject to VAT @ 20%</b>					<b>£551.84</b>
Note: Subject to the attached Terms and Conditions					
Depths are taken to the base of excavations. Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed. All rates exclude VAT. Depths are taken to the base of excavations. The above rates are subject to re-measurement. Daywork rates do not include for materials that are charged at cost plus					
KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour					

## **CET STRUCTURES LTD TERMS AND CONDITIONS**

**Site:-** 6 Nicholas Way

**Client Ref:-** SU2205005

**Client :-** Crawfords

**Job No.:-** 1244791

**Attention of:-**

**Claim No:-**

**Date:-** 17-May-23

### **General Terms and Conditions**

- 1 On site parking is a prerequisite of any drain repair contract. This quotation is to the addressee only and should not be forwarded unless prior agreement is obtained from CET Structures Ltd. Every effort will be made to match existing surfaces however, there will be evidence of excavation works in certain circumstances.
- 2 The rates do not include for excavation of surfaces other than soft ground or concrete < 100mm thick; reinstatement other than concrete <100mm thick; internal excavations; reinstatement >750mm in width; excavation of depths greater than 1.2m; reinforced concrete.
- 3 CET's standard soakaway that is priced on the agreed alliance schedule of drainage rates is constructed to dimensions specified in the NHBC Guidelines for small soakaways. The soakaway is generally located 5m from any foundations (should site constraints permit) and is constructed to provide adequate short term surface water storage and percolation into surrounding ground. This small 1m<sup>3</sup> soakaway is usually of sufficient capacity to accommodate average rainfall from an average surface area of roof space, however in extreme weather conditions and /or larger than average roof surface area feeding the soakaway, surcharging may occur. Alternative designs and prices are available at a cost along with percolation testing. Certain ground conditions may not be suitable for soakaway design due to low permeability and this information is not always readily available.

### **Notes**

For excavation and reinstatement of any steps, will be done on day work rate.

With a minimum of 4 hours. Materials at cost plus 25%.

Any obstacles, shrubs & plants that are located in the working area will need to be removed by others to allow for these works











## Water Authority Sewer Condition Codes

<b>B</b> Broken pipe at... (or from... to...) o'clock	<b>JN</b> Junction at...o'clock, diameter...mm
<b>BR</b> Branch Major	<b>JX</b> Junction defective at.. o'clock, diameter.. mm
<b>CC</b> Crack circumferential from... to... o'clock	<b>LC</b> Lining of sewer changes/starts/finishes at this point
<b>CL</b> Crack longitudinal @... o'clock	<b>LD</b> Line of sewer deviates down
<b>CM</b> Cracks multiple from... to... o'clock	<b>LL</b> Line of sewer deviates left
<b>CN</b> Connection at... o'clock, diameter... mm	<b>LN</b> Line defect at (or from.. to.. ) o'clock
<b>CNI</b> Connection at... o'clock, diameter... mm, intrusion... mm	<b>LR</b> Line of sewer deviates right
<b>CU</b> Camera under water	<b>LU</b> Line of sewer deviates up
<b>CX</b> Connection defective at... o'clock	<b>MB</b> Missing bricks at.. (or from.. to..) o'clock
<b>CXI</b> Connection defective at... o'clock, diameter... mm, intrusion... mm	<b>MC</b> Material of sewer changes at this point
<b>D</b> Deformed sewer... %	<b>MH</b> Manhole/node
<b>DB</b> Displaced bricks at (or from.. to..) o'clock	<b>MM</b> Mortar missing medium at.. (or from.. to..) o'clock
<b>DC</b> Dimension of sewer changes at this point	<b>MS</b> Mortar missing surface at.. (or from.. to..) o'clock
<b>DE</b> Debris (non silt/grease)... % cross-sectional loss	<b>MT</b> Mortar missing total at.. (or from.. to..) o'clock
<b>DEG</b> Debris grease... % cross-sectional area loss	<b>OB</b> Obstruction... % height/diameter loss
<b>DES</b> Debris silt... % cross-sectional area loss	<b>OJL</b> Open joint large
<b>DI</b> Dropped invert, gap... mm	<b>OJM</b> Open joint medium
<b>EHJ</b> Encrustation heavy from.. to.. o'clock % cross-sectional area loss (at joint)	<b>PC</b> Length of pipe forming sewer changes at this point, new length...mm
<b>ELJ</b> Encrustation light from.. to.. o'clock%	<b>RFJ</b> Roots fine (at joint)
<b>EMJ</b> Encrustation medium from.. to.. o'clock %, cross-sectional area loss (at joint)	<b>RMJ</b> Roots mass... % cross-sectional area loss (at joint)
<b>ESH</b> Scale heavy... % cross-sectional area loss from... to... o'clock	<b>RTJ</b> Roots tap (at joint)
<b>ESL</b> Scale light from... to... o'clock	<b>SA</b> Survey abandoned
<b>ESM</b> Scale medium... % cross-sectional area loss from... to... o'clock	<b>SC</b> Shape of sewer changes at this point
<b>FC</b> Fracture circumferential from... to... o'clock	<b>SSL</b> Surface damage, spalling large at (or from.. to..) o'clock
<b>FL</b> Fracture longitudinal at... o'clock	<b>SSM</b> Surface damage, spalling medium at (or from.. to..) o'clock
<b>FM</b> Fractures multiple from... to... o'clock	<b>SSS</b> Surface damage, spalling slight at (or from.. to..) o'clock
<b>GO</b> General observation at this point	<b>SWL</b> Surface damage, wear large at... (or from.. to..) o'clock
<b>GP</b> General photograph number... taken at this point	<b>SWM</b> Surface damage, wear medium at... (or from.. to..) o'clock
<b>H</b> Hole in sewer at... o'clock	<b>SWS</b> Surface damage, wear slight at.. (or from.. to..) o'clock
<b>IDJ</b> Infiltration dripper at (or from... to...) o'clock (at joint)	<b>V</b> Vermin (rats and mice)
<b>IGJ</b> Infiltration gusher at (or from... to...) o'clock (at joint)	<b>WL</b> Water level... % height/diameter
<b>IRJ</b> Infiltration runner at (or from... to...) o'clock (at joint)	<b>X</b> Sewer collapsed... % cross-sectional area loss
<b>ISJ</b> Infiltration seeper at (or from... to...) o'clock (at joint)	<b>FH</b> End of survey
<b>JDM</b> Joint displaced medium	
<b>JDL</b> Joint displaced large	