



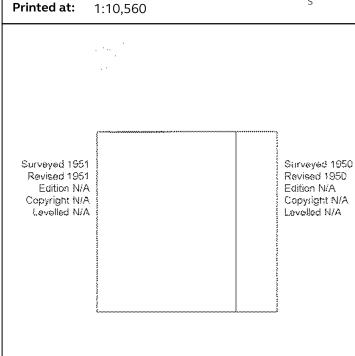
# Site Details: DARWEN MARKETS, DARWEN, BB3 1BG

4800227826 Client Ref: **Report Ref:** GS-3893091 369285, 422263 **Grid Ref:** 

Map Name: Provisional

Map date: 1950-1951

Scale: 1:10,560

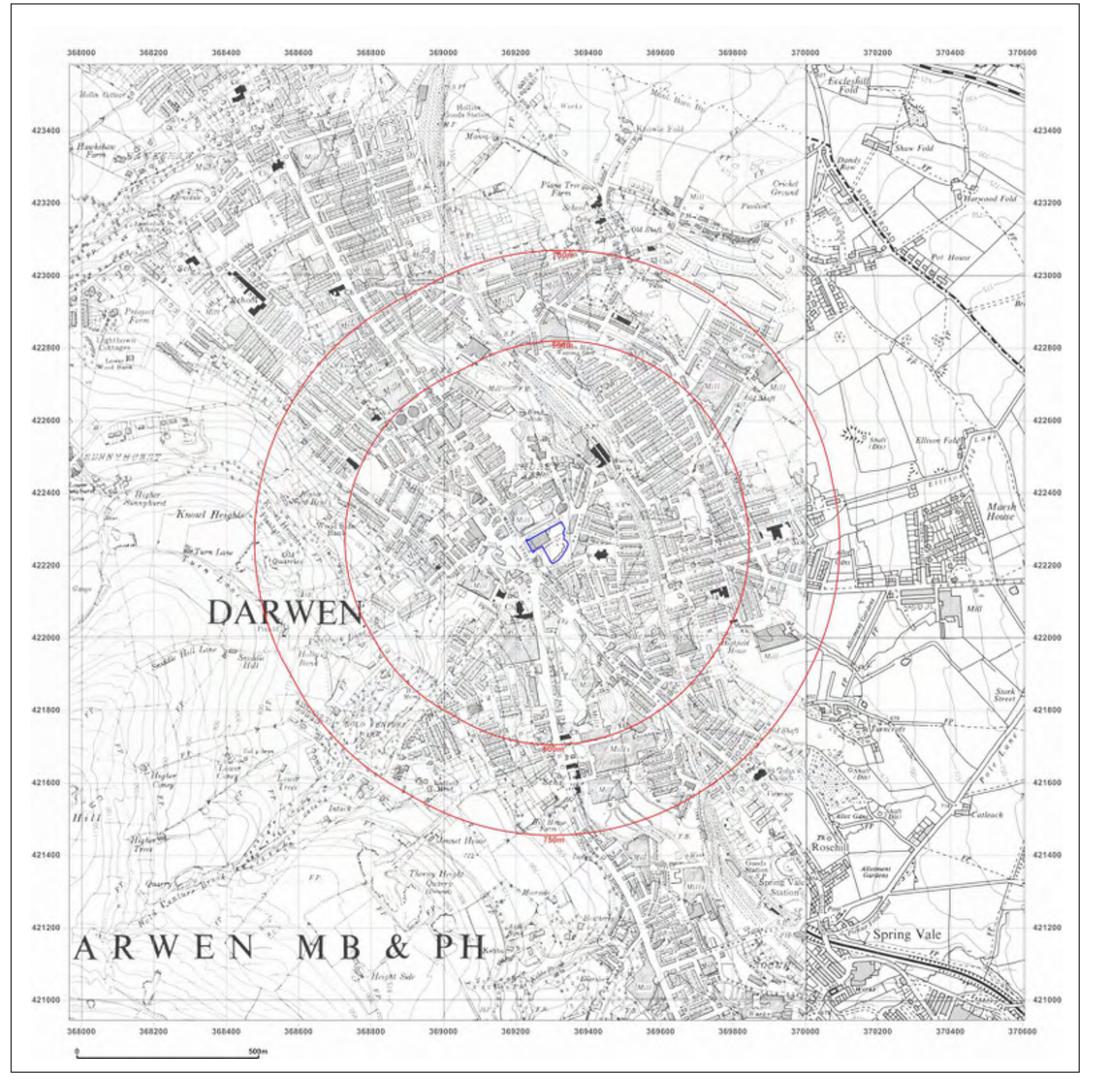




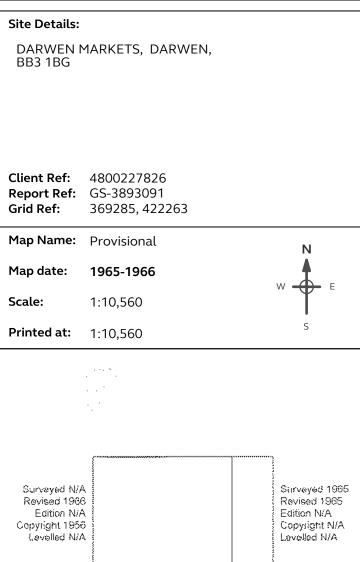
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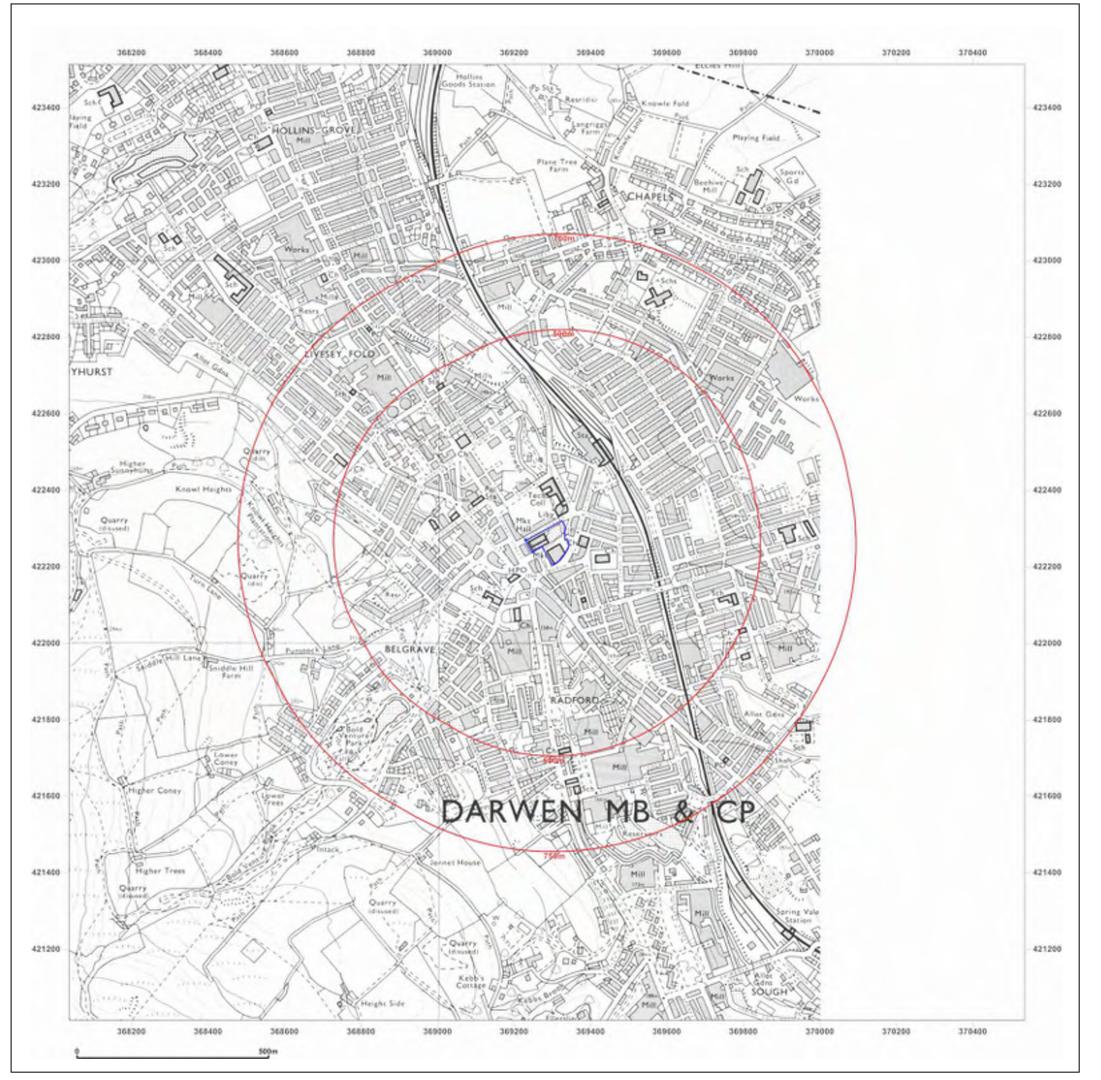




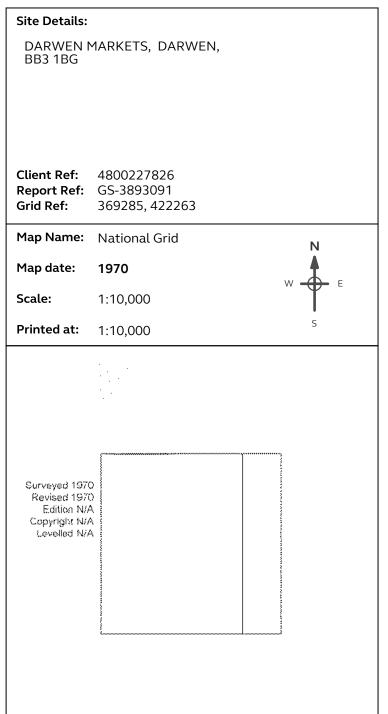


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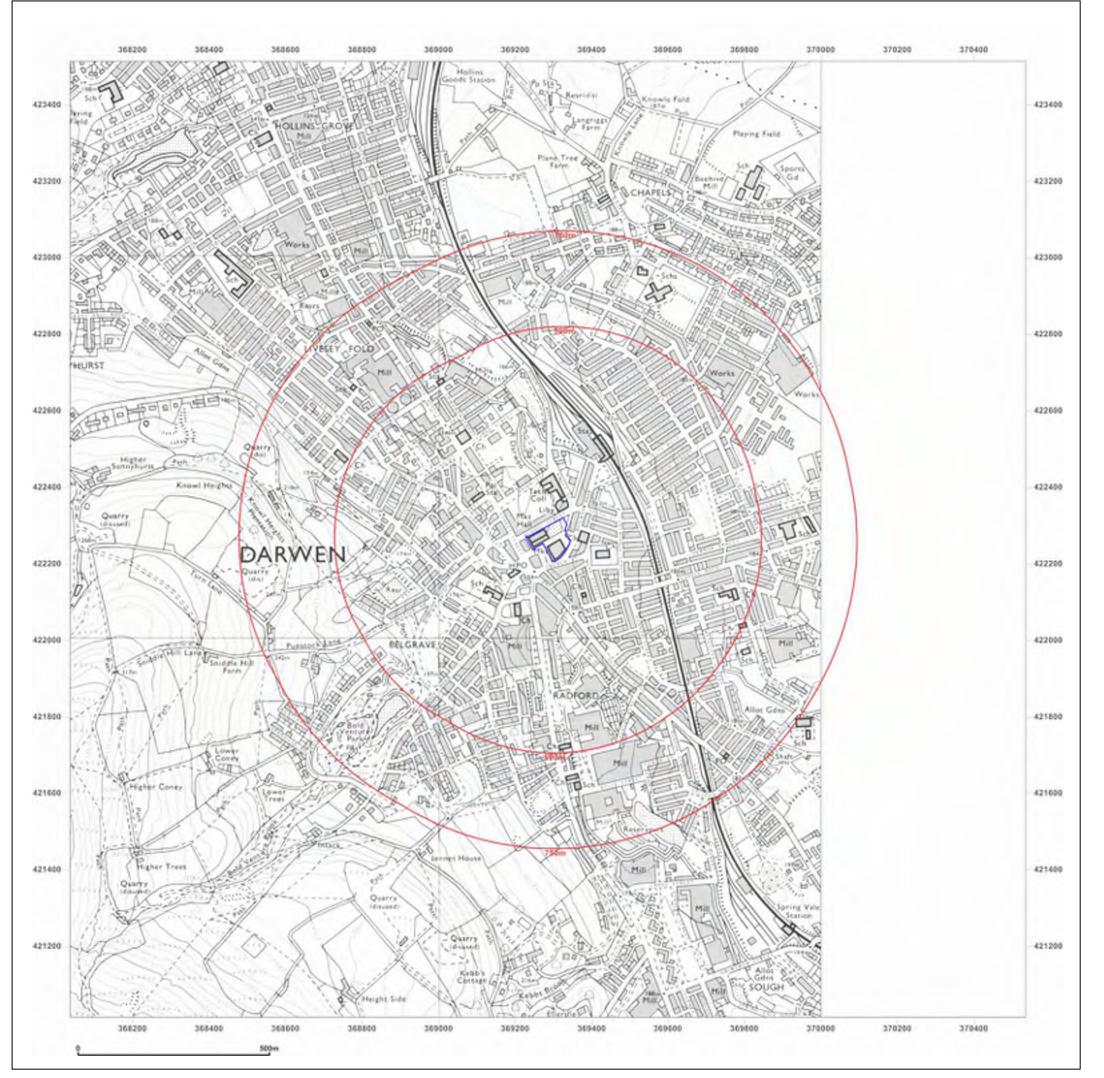




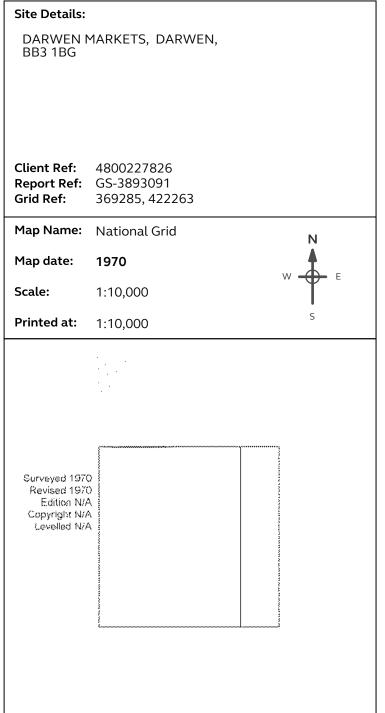


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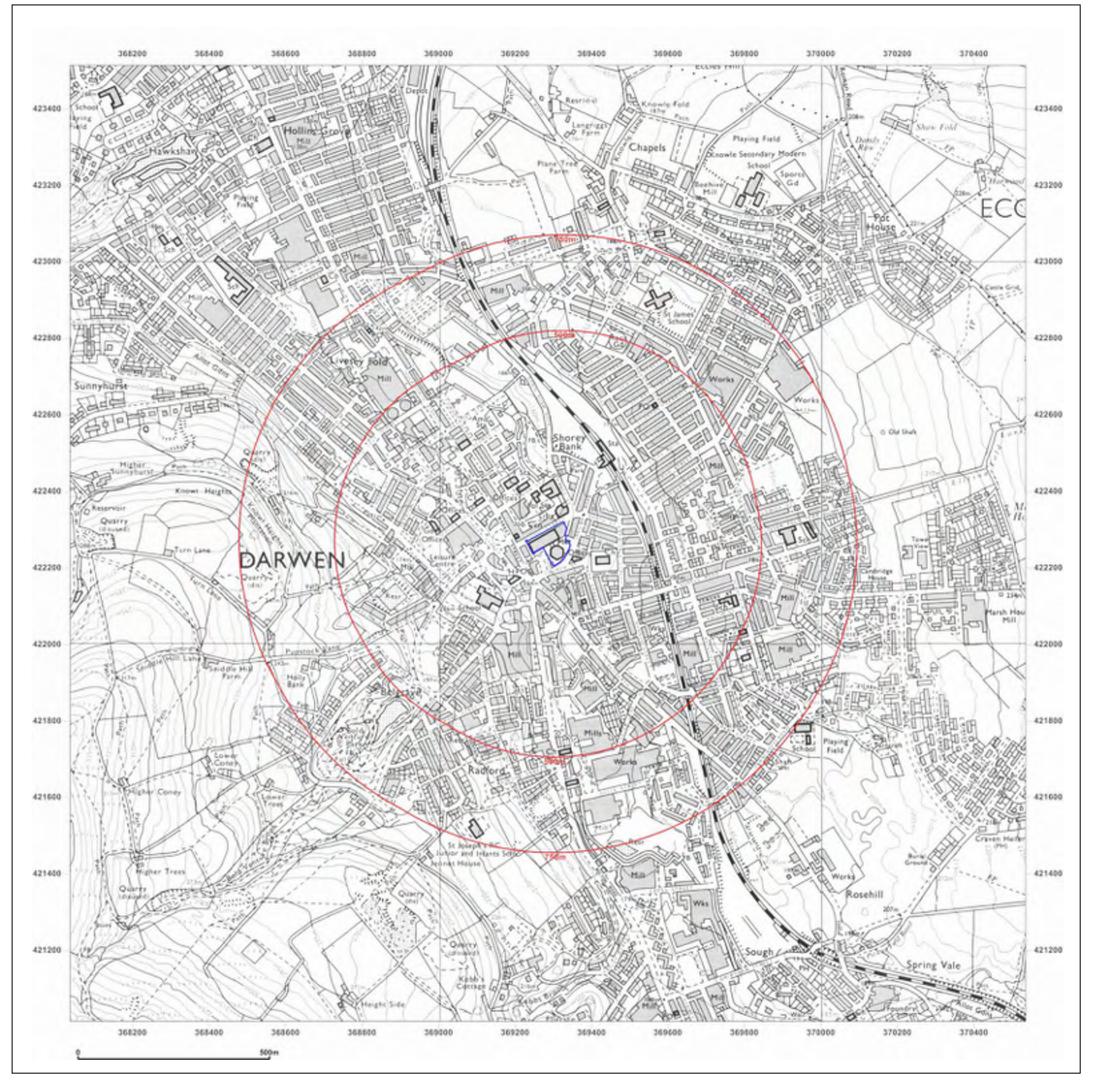




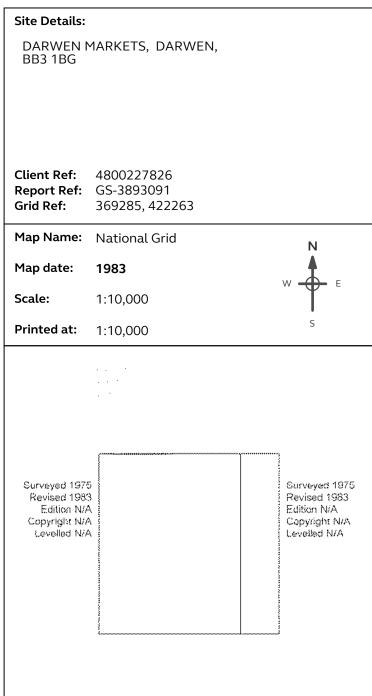


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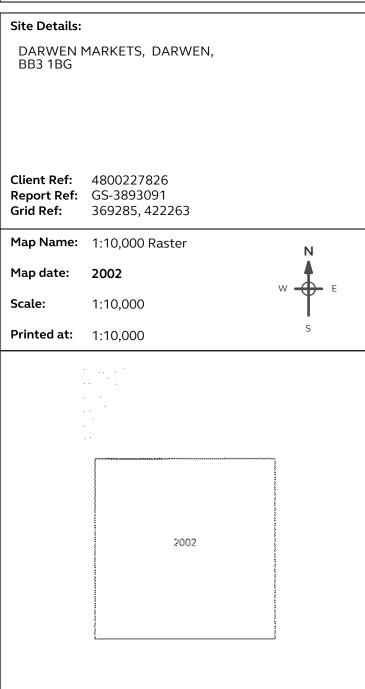


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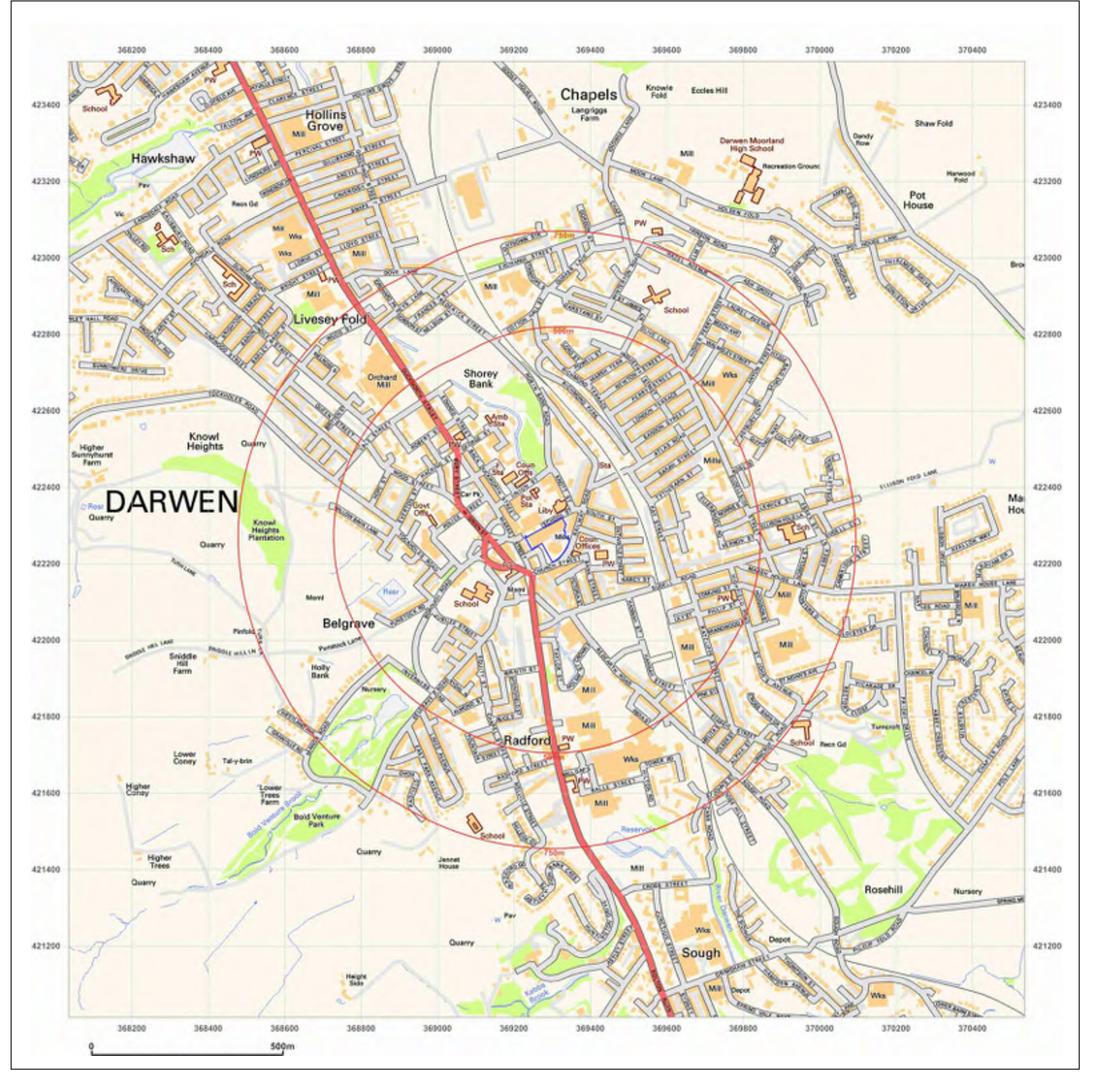




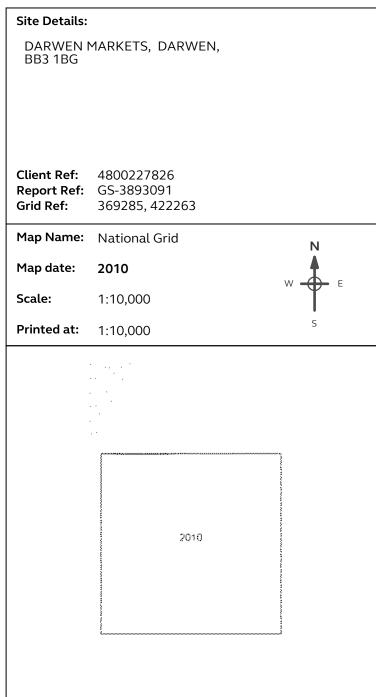


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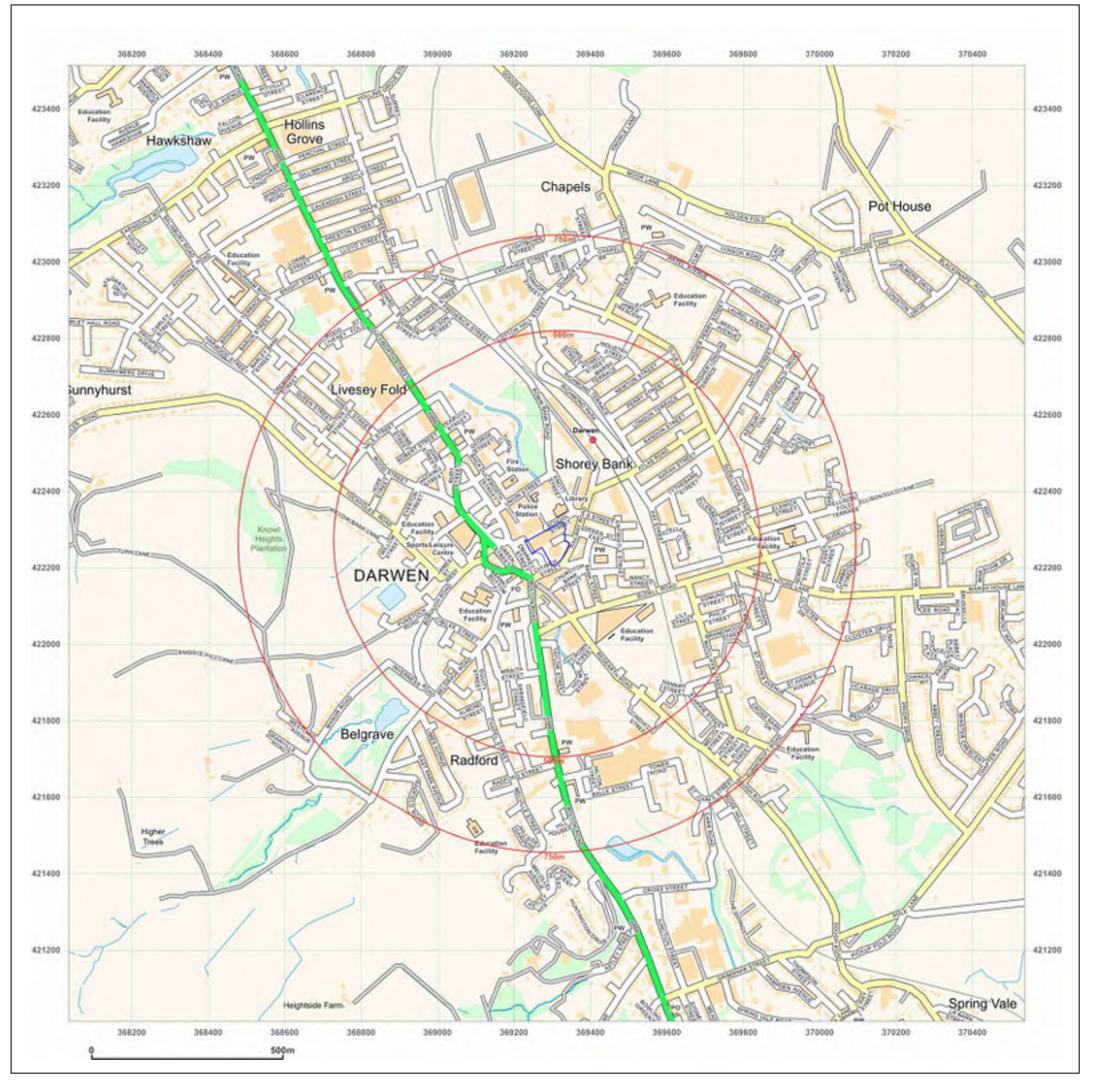




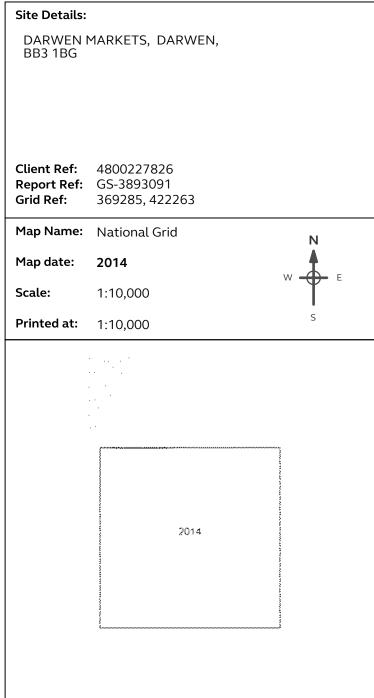


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# Appendix D BSG Borehole Logs

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23646 BOREHOLE LOG Darwen

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Type of Sample

Contract No.....

Client Blackburg Gorough Council

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#### **Holst Soil Engineering Limited** BOREHOLE LOG Contract No. ...... F3643 Datues Chans Blackburn Borough Council STUDGE 257 Rotary Abedies of Buring.... Clameter of Spreticle Oroclation of Stretz See percussion log 16.001 16.50 Righly weathered Nighly Fractured dark grey black shaley MODSTONE 202 9% LA,OD ta.26 Moderately weathered and stately transumed dark grey biack chaley 15% 1002 HUDSYORE 20.00 Remarks (Cospressions of Ground Wasse etc.) Tests of Sample Dungiturbia

I Water levels we exhibit so measured in Line Learnances producted and he seem in executive (

### Holst Soil Engineering Limited BOREHOLE LOG

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#### Key

- S Understand Sample Ø Angle of Friction
  O Dissiplied Sample Tale, Moleture Content
- O Dissiphed Sample IT C. Moleture Con A Water Sample v Bulk Datality
- Paratration Test N 5.P.T. Value

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## Holst Soil Engineering Limited BOREHOLE LOG

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Contract No. ...... £3648...

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# Appendix E Coal Authority Report



# CON29M Non-Residential Mining Report

DARWEN MARKETS
DARWEN
LANCASHIRE
BB3 1BG







Date of enquiry: 19 May 2017 Date enquiry received: 19 May 2017 Issue date: 19 May 2017

Our reference: 51001458846001 Your reference: GS-3893092

# CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

#### **Client name**

**GROUNDSURE LIMITED** 

#### **Enquiry address**

DARWEN MARKETS, DARWEN, LANCASHIRE, BB3 1BG

#### How to contact us

0345 762 6848 (UK) +44 (0)1623 637 000 (International)

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com

- in /company/the-coal-authority
- f /thecoalauthority
- /coalauthority



Approximate position of property



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# Summary

Has the search report highlighted evidence or potential of				
1	Past underground coal mining	Yes		
2	Present underground coal mining	No		
3	Future underground coal mining	Yes		
4	Mine entries	No		
5	Coal mining geology	No		
6	Past opencast coal mining	No		
7	Present opencast coal mining	No		
8	Future opencast coal mining	No		
9	Coal mining subsidence	Yes		
10	Mine gas	No		
11	Hazards related to coal mining	No		
12	Withdrawal of support	No		
13	Working facilities order	No		
14	Payments to owners of former copyhold land	No		
15	Information from the Cheshire Brine Subsidence Compensation Board	No		

Further recommended reports
Coal mining subsidence claims 50m buffer report
Coal mining subsidence claims history

For detailed findings, please go to page 4.

# Detailed findings

#### 1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 1 seam of coal at 140m to 150m depth, and last worked in 1850.

Any movement in the ground due to coal mining activity should have stopped.

#### 2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

#### 3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

#### 4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

#### 5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

© The Coal Authority Page 4 of 8

#### 6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

#### 7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

#### 8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

#### 9. Coal mining subsidence

There are 1 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

#### 10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

#### 11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

#### 12. Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

#### 13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

© The Coal Authority Page 5 of 8

#### 14. Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

#### 15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

© The Coal Authority Page 6 of 8

#### Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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# Enquiry boundary



Approximate position of enquiry boundary shown



Coal claims



#### How to contact us

0345 762 6848 (UK) +44 (0)1623 637 000 (International)

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com

- in /company/the-coal-authority
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Capita Real Estate and Infrastructure Ltd
The Observatroy
Chapel Walks
Manchester
M2 1HL

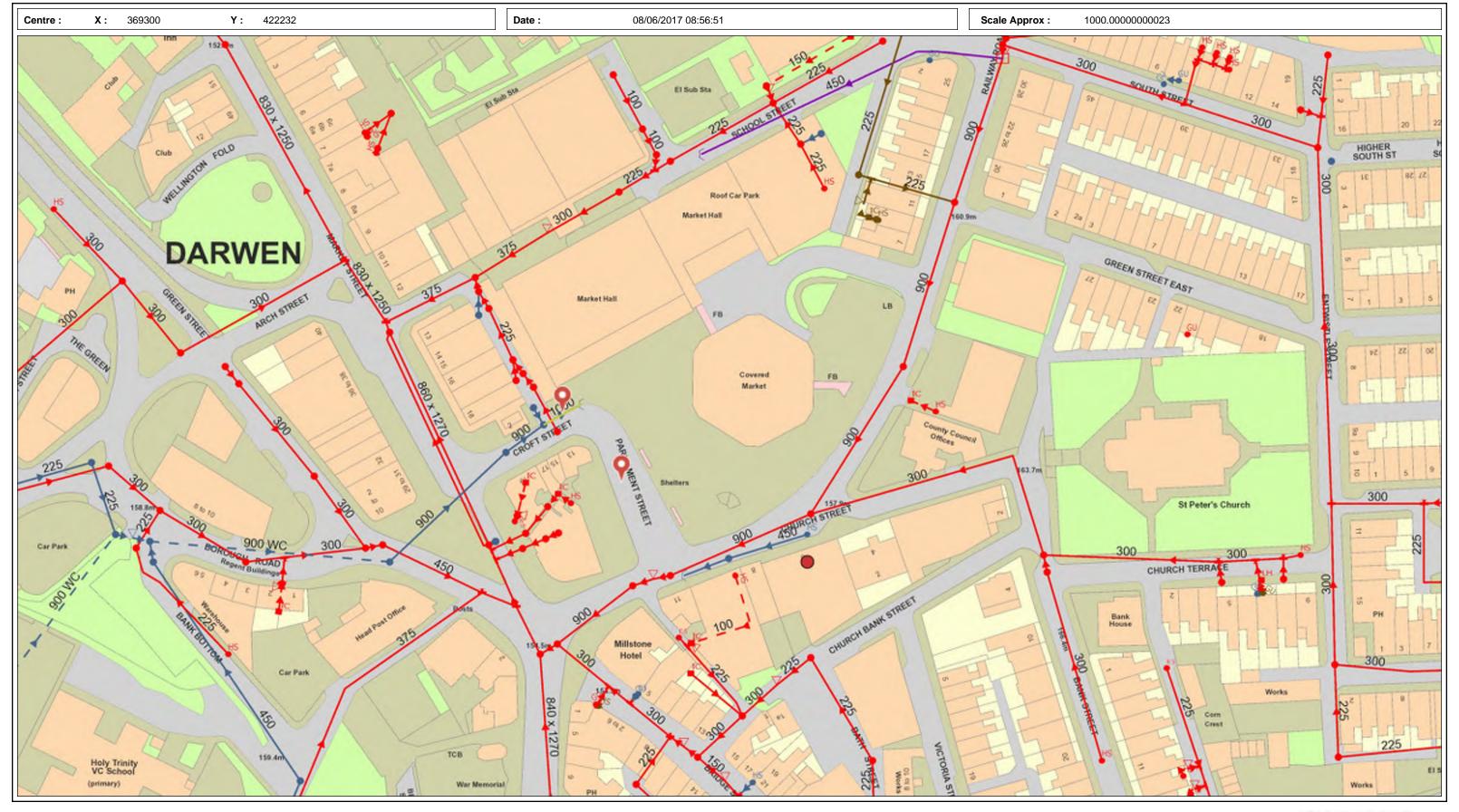


### **United Utilities SafeDig Website**

### Wastewater Symbology



### **UU Maps for Safe Dig**

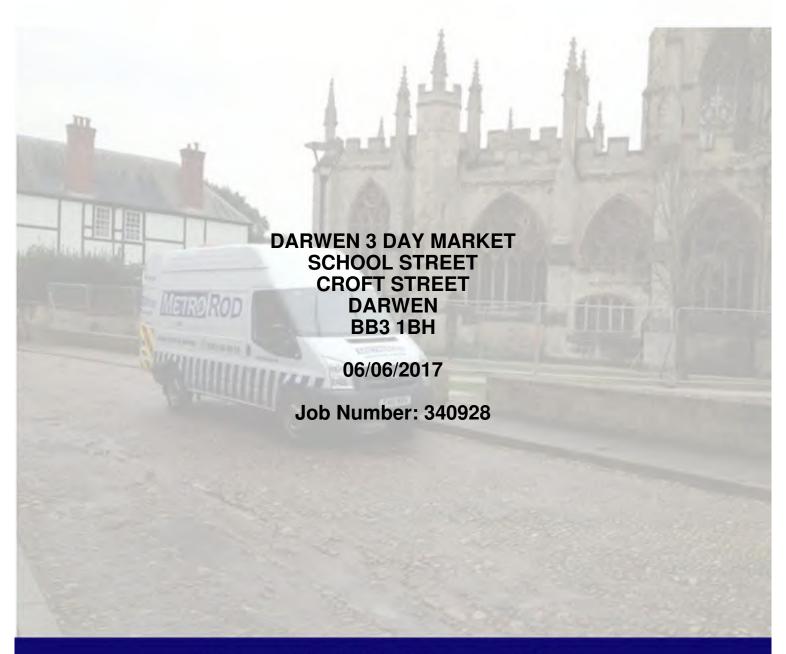


#### Extract from maps of United Utilities' Underground Assets

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. The actual positions may be different from those shown on the plan and private service pipes may be shown by a blue broken line. United Utilities Water will not accept liability for any damage caused by the actual position being different from those shown.







# Metro Rod (Mid Lancashire)

95 Newton Road, Billinge, Wigan, Lancashire, WN5 7LB Tel: 01943 221 804





IVIENE	Project Ir	nformation	Wigar Lancashire WN5 7LE
Job Number <b>340928</b>	Surveyed by (Operator) Mr JORDAN GRIMES	Base Unit K4E2VQVHT6	Date <b>06/06/2017</b>
Client Details:			
WADE GROUP			
Site Details:			
DARWEN 3 DAY MARKET SCHOOL STREET			
CROFT STREET DARWEN			
BB3 1BH			
Contractor Details:			
Metro Rod (Mid Lancs) 95 Newton Rd			
Billinge Wigan			
Lancashire WN5 7LB			
Purpose of Survey:			
CCTV SURVEY OF FOUL	AND SURFACE DRAINS TO FI	ND DIRECTIONS AS TO WHEF	RE DRAINS GO.



### Contents Page



Job Number	Surveyed by (Operator)	Base Unit	Date
340928	Mr JÓRDÁN GRIMES	K4E2VQVHT6	06/06/2017

#### **Report Contents**

Page 1	Cover Page
Page 2	Job Overview
Page 3	Contents Page
Page 4	Run List
Page 5	Grade Defect Descriptions
Page 6	Site Drawings
Page 7	Survey Run Sheet(Survey 1 - MHS 3 to MHS 2)
Page 9	Survey Run Sheet(Survey 2 - MHC 1 to MHF 1)
Page 12	Survey Run Sheet(Survey 3 - MHC 1 L1 to GULLY 1)
Page 14	Survey Run Sheet(Survey 4 - MHC 1 L2 to GULLY 2)
Page 16	Survey Run Sheet(Survey 5 - MHC 1 L3 to GULLY 3)
Page 18	Survey Run Sheet(Survey 6 - MHC 1 L4 to GULLY 4)
Page 20	Survey Run Sheet(Survey 7 - MHS 2 to MHS 1 BURIED)
Page 22	Defect Summary
Page 24	Job Summary
Page 26	Defect Summary





### Main Sections

Job Number	Surveyed by (Operator) Mr JORDAN GRIMES	Base Unit	Date
<b>340928</b>		<b>K4E2VQVHT6</b>	<b>06/06/2017</b>

No.	US MH	DS MH	Date	Road	Material	m
1	MHS 3	MHS 2	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	10.72
2	MHC 1	MHF 1	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	16.01
3	MHC 1 L1	GULLY 1	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	3.64
4	MHC 1 L2	GULLY 2	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	6.81
5	MHC 1 L3	GULLY 3	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	3.53
6	MHC 1 L4	GULLY 4	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	6.71
7	MHS 2	MHS 1 BURIED	06/06/2017	DARWEN 3 DAY MARKET	Vitrified clay	11.23

Pipe size: 150 = 38.04m	
Pipe size: 100 = 20.69m	

All sections = 58.73m



### **Defect Grade Descriptions**



,	Defect Grade	Descriptions	
Job Number <b>340928</b>	Surveyed by (Operator) Mr JORDAN GRIMES	Base Unit <b>K4E2VQVHT6</b>	Date <b>06/06/2017</b>
1: Occurences without damage.	For example, laterals, joints,etc	).	
NO DEFECTS WERE DETEC	TED.		
2: Constructional deficiencies or	accurances with incignificant in	fluonoo to tightnoon, hydroulia	or static proceure or pipe: Eq
2: Constructional deficiencies or wide joints, badly torched intake			or static pressure or pipe. Eg.
REHABILITATION CAN BE SO	CHEDULED LONG-TERM.		
3: Constructional deficiencies dis obstructions such as calcite build pipe walls etc.			
REHABILITATION IS NECESS	SARY MEDIUM-TERM WITHIN	3 TO 5 YEARS.	
4. Constructional demand on with		io on timbto coo. Far. oviol/modici	Laine huuste laine
4: Constructional damages with deformations, visually noticeable penetrations, severe corrosion of	e infiltration/exfiltration, cavities,		
	RE IS URGENT AND HAS TO ONS HAS TO BE EXAMINED.	BE COMPLETED WITHIN 1 T	O 2 YEARS. NECESSITY
5: Pipe is already or will shortly be loses water or danger of backwa		pipe, deeply rooted pipe or oth	ner drainage obstructions. Pipe
	T AND SHORT-TERM. IN ORD HAS TO BE CONDUCTED ON		DAMAGE, NECESSARY



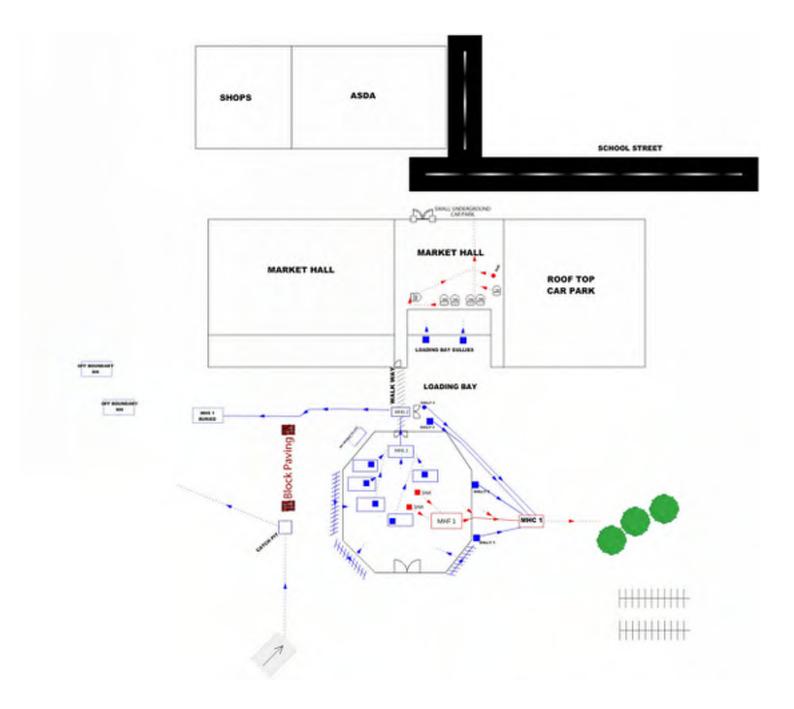
### Site Drawings/Photos

Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 7LB

 Job Number
 Surveyed by (Operator)
 Base Unit
 Date

 340928
 Mr JORDAN GRIMES
 K4E2VQVHT6
 06/06/2017

This sketch is not to scale and does not represent the exact routing of the drainage system







Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR)  MHS 3 X	Date <b>07/06/2017</b>	Pre Cleaned Flushed through to enable survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/3	Base Unit <b>K4E2VQVHT6</b>	Section Number 1
Road DARWEN 3 DAY MARKET Place SCHOOL STREET		Division District		

Location Details

Road **DARWEN 3 DAY MARKET** Place **SCHOOL STREET** Location **CROFT STREET** 

Shape/Size 150mm Material Vitrified clay Category

Start MH MHS 3 End MH MHS 2 Total length 10.72 metres

Purpose Duty **SURFACE** Catchment

Scale	e 1:0.52 ction <b>Downstrea</b>	n			
M/H F	Ref:MHS 3   I/L Position		Depth: 1100mm  Description	Photo	Type/Grade
	0.00	MH WL	Start node type, manhole, reference MHS 2 Water level 0% height/diameter	1995: 1995:	Comment / 0 Comment / 0 Comment / 0
	1.55	OJM	Open joint medium	1995	312 Structural / 1
*	8.19	FC	Fracture circumferential from 9 to 3 o'clock	1995	327 Structural / 3
	9.01 9.01 9.31 9.37	OJM LL JN OJM	Open joint medium Line of drain/sewer deviates left quarter Junction at 2 o'clock, diameter 100mm Open joint medium	1995; 1995; 1995; 1995;	966 Comment / 0
	10.72	MHF	Finish node type, manhole, reference MHS 2	2 1995	337 Comment / 0
M/H F	Ref:MHS 2   I/L	:mm   M/H E	Depth: 1200mm		



Surveyed by (Operator)
Mr JORDAN GRIMES Base Unit K4E2VQVHT6 Date 07/06/2017 Job Number **340928** 



Open joint medium



Fracture circumferential from 9 to 3 o'clock



Open joint medium



Open joint medium





Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR)  MHF 1 X	Date <b>07/06/2017</b>	Pre Cleaned Flushed through to enable survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/4	Base Unit <b>K4E2VQVHT6</b>	Section Number 2
Road DARWEN 3 DAY MARKET Place SCHOOL STREET		Division District		

Location Details

Road DARWEN 3 DAY MARKET Place SCHOOL STREET Location CROFT STREET

Shape/Size **150mm** Material **Vitrified clay** Category

Start MH MHC 1 End MH MHF 1 Total length 16.09 metres

Scale 1:0.84

Duty **Combined**Catchment

Direct	ion <b>Upstream</b>				
M/H R			Depth: 300mm		
	Position	Code	Description	Photo	Type/Grade
	0.00 0.00 0.36	MH WL SC	Start node type, manhole, reference MHC 1 Water level 0% height/diameter Dimension of drain/sewer changes to 100mm	1995419 1995420 1995422	Comment / 0 Comment / 0 Comment / 0
	1.33	FC B	Fracture circumferential from 12 to 12 o'clock Broken pipe at 7 o'clock	1995433 1995435	Structural / 3 Structural / 4
	2.04 2.04 2.23	FL FL B	Fracture longitudinal at 7 o'clock Fracture longitudinal at 1 o'clock Broken pipe from 2 to 9 o'clock	1995442 1995443 1995445	Structural / 3 Structural / 3 Structural / 4
<b>†</b>	6.81	JN	Junction at 2 o'clock, diameter 100mm	1995448	Comment / 0
	10.43	JN REM	Junction at 2 o'clock, diameter 100mm FAT AND GREASE IN JUNCTION.	1995453 1995978	Comment / 0 Comment / 0
M/H R	15.37 15.76 15.80 16.01 ef:MHF 1   I/L :	DEE LL FL MHF mm   M/H I	Attached deposits, encrustation from 11 to 6 o'clock 10% cross sectional area loss Line of drain/sewer deviates left quarter Fracture longitudinal at 5 o'clock Finish node type, manhole, reference MHF 1 Depth: 250mm	1995460 1995996 1995997 1998725	Service / 3 Comment / 0 Structural / 3 Comment / 0





Fracture circumferential from 12 to 12 o'clock



Broken pipe at 7 o'clock



Fracture longitudinal at 7 o'clock



Fracture longitudinal at 1 o'clock



Broken pipe from 2 to 9 o'clock



FAT AND GREASE IN JUNCTION.





Attached deposits, encrustation from 11 to 6 o'clock 10% cross sectional area loss



Fracture longitudinal at 5 o'clock



Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 7LB

Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR) <b>GULLY 1 X</b>	Date <b>07/06/2017</b>	Pre Cleaned  HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/4	Base Unit <b>K4E2VQVHT6</b>	Section Number <b>3</b>

Road **DARWEN 3 DAY MARKET** Place **SCHOOL STREET** Location **CROFT STREET** 

Division District Location Details

Purpose Duty **Combined** Catchment Shape/Size 100mm Material Vitrified clay Category Start MH MHC 1 L1 End MH GULLY 1 Total length 3.64 metres

Scale 1:0.16
Direction Upstream









Broken pipe from 2 to 10 o'clock



Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 7LB

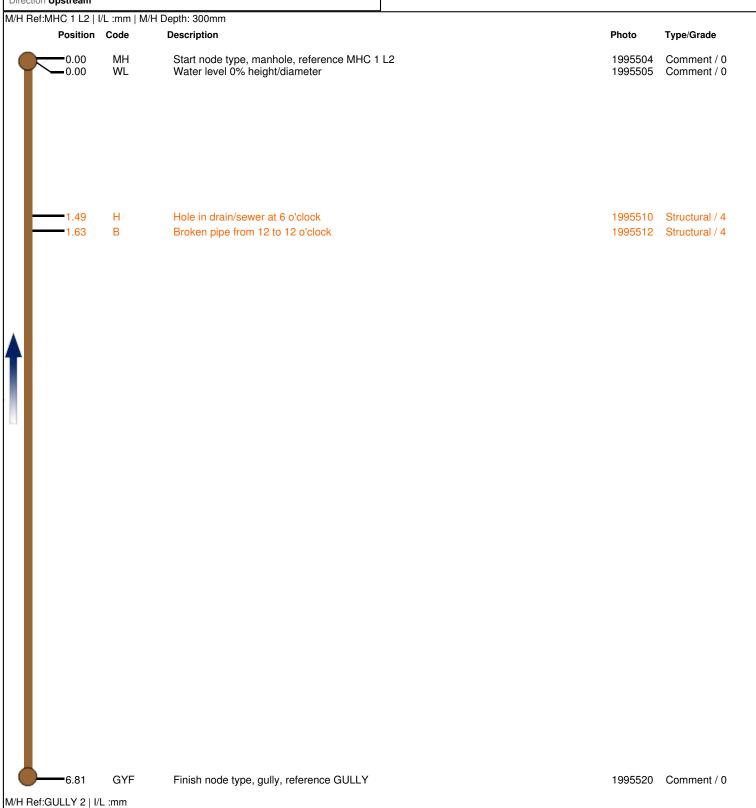
Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR) <b>GULLY 2 X</b>	Date <b>07/06/2017</b>	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/4	Base Unit <b>K4E2VQVHT6</b>	Section Number  4

Road **DARWEN 3 DAY MARKET** Place **SCHOOL STREET** Location **CROFT STREET** 

Division District Location Details

Purpose Duty **Combined** Catchment Shape/Size 100mm Material Vitrified clay Category Start MH MHC 1 L2 End MH GULLY 2 Total length 6.81 metres

Scale 1:0.31 Direction Upstream







Hole in drain/sewer at 6 o'clock



Broken pipe from 12 to 12 o'clock



Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 7LB

Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR) <b>GULLY 3 X</b>	Date <b>07/06/2017</b>	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/4	Base Unit <b>K4E2VQVHT6</b>	Section Number <b>5</b>

Road DARWEN 3 DAY MARKET Place SCHOOL STREET Location CROFT STREET

Division District Location Details

Purpose Duty **Combined** Catchment Shape/Size 100mm Material Vitrified clay Category Start MH MHC 1 L3 End MH GULLY 3 Total length 3.53 metres

Scale 1:0.16
Direction Upstream

Direction Upstream				
M/H Ref:MHC 1 L3   I			<b>-</b>	
Position	Code	Description	Photo	Type/Grade
0.00	MH WL	Start node type, manhole, reference MHC 1 L3 Water level 0% height/diameter	1995523 1995524	Comment / 0 Comment / 0
1.24	JDM	Joint displaced medium	1005525	Structural / 1
1.24	JDM	Joint displaced medium	1995535	Structural / 1
1.68	FL FL	Fracture longitudinal at 3 o'clock Fracture longitudinal at 9 o'clock	1995536 1995543	Structural / 3 Structural / 3
<del></del> 2.23	DEG	Attached deposits, grease from 1 to 10 o'clock 15% cross section	onal area loss 1995558	Service / 3
2.59	В	Broken pipe from 8 to 4 o'clock	1995559	Structural / 4
3.17	GYF	Finish node type, gully, reference GULLY	1995581	Comment / 0
3.37	LR	Line of drain/sewer deviates right quarter	1995561	Comment / 0
3.53	OJL	Open joint large	1995560	Structural / 1
M/H Ref:GULLY 3   I/	L :mm			





Joint displaced medium



Fracture longitudinal at 3 o'clock



Fracture longitudinal at 9 o'clock



Attached deposits, grease from 1 to 10 o'clock 15% cross sectional area



Broken pipe from 8 to 4 o'clock



Open joint large



Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 7LB

Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR) <b>GULLY 4 X</b>	Date <b>07/06/2017</b>	Pre Cleaned  HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/4	Base Unit <b>K4E2VQVHT6</b>	Section Number 6

Road **DARWEN 3 DAY MARKET** Place **SCHOOL STREET** Location **CROFT STREET**  Division District Location Details

Purpose Duty **Combined** Catchment Shape/Size 100mm Material Vitrified clay Category Start MH MHC 1 L4 End MH GULLY 4 Total length 6.71 metres

Scale 1:0.31
Direction Upstream

M/H Ref:MHC 1 L4	I/L:mm   M/H	1 Denth: 300mm		
Position	Code	Description	Photo	Type/Grade
0.00 0.00 0.25	MH WL OJM	Start node type, manhole, reference MHC 1 Water level 0% height/diameter Open joint medium	L4 19955 19955	85 Comment / 0
0.64	WL	Water level 10% height/diameter	19955	97 Comment / 0
3.44	В	Broken pipe from 12 to 12 o'clock	19958	98 Structural / 4
4.77	JDM	Joint displaced medium	19956	02 Structural / 1
6.71	GYF	Finish node type, gully, reference GULLY	19956	05 Comment / 0





Open joint medium



Broken pipe from 12 to 12 o'clock



Joint displaced medium





Surveyed by (Operator) Mr JORDAN GRIMES	Job Number <b>340928</b>	Pipe Length Reference(PLR)  MHS 2 X	Date <b>08/06/2017</b>	Pre Cleaned HPWJ to clean prior to survey
Weather 2 - Heavy Rain	Customer Present	Service Grade/Structural Grade 3/3	Base Unit <b>K4E2VQVHT6</b>	Section Number <b>7</b>

Road DARWEN 3 DAY MARKET Place SCHOOL STREET Location CROFT STREET Division District Location Details

Purpose Duty **Combined** Catchment Shape/Size 150mm Material Vitrified clay Category Start MH MHS 2 End MH MHS 1 BURIED Total length 11.23 metres

Scale 1:0.58
Direction Downstream

Description  Start node type, manhole, reference MHS 1  Water level 10% height/diameter	Photo	Type/Grade
Start node type, manhole, reference MHS 1 Water level 10% height/diameter		
· · · · · · · · · · · · · · · · · · ·	1998165 1998166	Comment / 0 Comment / 0
Settled deposits fine 10% cross-sectional area loss	1998169	Service / 3
Fracture circumferential from 7 to 11 o'clock	1998171	Structural / 3
Line of drain/sewer deviates left quarter	1998185	Comment / 0
Line of drain/sewer deviates right quarter	1998186	Comment / 0
Joint displaced medium	1998191	Structural / 1
Finish node type, manhole, reference MHS 1 OUTFALL	1998192	Comment / 0
	Line of drain/sewer deviates right quarter  Line of drain/sewer deviates right quarter  Joint displaced medium	Line of drain/sewer deviates left quarter 1998185  Line of drain/sewer deviates right quarter 1998186  Joint displaced medium 1998191





Settled deposits fine 10% cross-sectional area loss



Fracture circumferential from 7 to 11 o'clock



Joint displaced medium



# Structural Defects (SRM 4)

	Job Number <b>340928</b>			Surveyed by (Operator) Mr JORDAN GRIMES			Base Unit <b>K4E2VQVHT6</b>			Date <b>06/06/2017</b>			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	MHS 3 X	D	Х	150	06/06/2017	Vitrified clay	10.72 metres	10.72		40	3	4.01	43
2	MHF 1 X	U	С	150	06/06/2017	Vitrified clay	16.09 metres	16.01		80	4	19.99	320
3	GULLY 1 X	U	С	100	06/06/2017	Vitrified clay	3.64 metres	3.64		80	4	21.98	80
4	GULLY 2 X	U	С	100	06/06/2017	Vitrified clay	6.81 metres	6.81		80	4	23.49	160
5	GULLY 3 X	U	С	100	06/06/2017	Vitrified clay	3.53 metres	3.53		80	4	46.18	163
6	GULLY 4 X	U	С	100	06/06/2017	Vitrified clay	6.71 metres	6.71		80	4	12.22	82
7	MHS 2 X	D	С	150	06/06/2017	Vitrified clay	11.23 metres	11.23		40	3	3.65	41



# Service Defects (SRM 4)

	Job Number <b>340928</b>			Surveyed by (Operator) Mr JORDAN GRIMES			Base Unit K4E2VQVHT6			Date <b>06/06/2017</b>			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	MHS 3 X	D	Х	150	06/06/2017	Vitrified clay	10.72 metres	10.72		0	1	0	0
2	MHF 1 X	U	С	150	06/06/2017	Vitrified clay	16.09 metres	16.01		2	3	0.12	2
3	GULLY 1 X	U	С	100	06/06/2017	Vitrified clay	3.64 metres	3.64		0	1	0	0
4	GULLY 2 X	U	С	100	06/06/2017	Vitrified clay	6.81 metres	6.81		0	1	0	0
5	GULLY 3 X	U	С	100	06/06/2017	Vitrified clay	3.53 metres	3.53		2	3	0.57	2
6	GULLY 4 X	U	С	100	06/06/2017	Vitrified clay	6.71 metres	6.71		0	1	0	0
7	MHS 2 X	D	С	150	06/06/2017	Vitrified clay	11.23 metres	11.23		2	3	0.18	2



### Report Summary

Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan

Job Number Surveyed by (Operator)
Mr JORDAN GRIMES Rase Unit Date K4E2VQVHT6 340928 06/06/2017

#### Job Information

Total Distance Surveyed: 58.73 metres Engineer: Mr JORDAN GRIMES

Number of Surveys: 7

Number of Surveys grade 4 or above: 5

#### Job Comments

MULTIPLE DEFECTS WITHIN LINES AS SEEN ON SURVEY RECORDINGS.

PLAN NOT TO SCALE.

MHS 2 UN ABLE TO LIFT IN WALK WAY BETWEEN TWO MARKETS. NOTHIN FROM 6 DAY MARKET IS RUNNING INTO 3 DAY MARKET.

POSSIBLE THAT SOME SURFACE WATER DRAIS FROM 6 DAY DO CONNECT ONTO MHS 2 THAT WE CAN NOT GET UP. RECCOMEND WHEN DEMOLITION TAKES PLACE TO BREAK INTO MANHOLE TO CARRY OUT CCTV SURVEY OF ANY CONNECTIONS.

#### Section 1 Overview (07/06/2017)

Manholes: MHS 3 to MHS 2 Pipe Length: 10.72 metres Structural Grade: 3 Service Grade: 0 Material: Vitrified clay Pipe Size: 150mm Use: SURFACE

#### Section 2 Overview (07/06/2017)

Manholes: MHC 1 to MHF 1 Pipe Length: 16.09 metres Structural Grade: 4 Service Grade: 3 Material: Vitrified clav Pipe Size: 150mm

Use: Combined

BURIED MANHOLE AT FINISH. FOUND MULTIPLE DEFECTS IN LINE

#### Section 3 Overview (07/06/2017)

Manholes: MHC 1 L1 to GULLY 1 Pipe Length: 3.64 metres Structural Grade: 4 Service Grade: 0 Material: Vitrified clay Pipe Size: 100mm Use: Combined

BROKEN PIPEWORK FOUND IN LINE.

#### Section 4 Overview (07/06/2017)

Manholes: MHC 1 L2 to GULLY 2 Pipe Length: 6.81 metres Structural Grade: 4 Service Grade: 0 Material: Vitrified clay Pipe Size: 100mm Use: Combined

BROKEN PIPEWORK IN LINE AND ALSO HOLE IN PIPEWORK NEEDS STRAIGHT LSR COVERAGE.

#### Section 5 Overview (07/06/2017)

Manholes: MHC 1 L3 to GULLY 3 Pipe Length: 3.53 metres Structural Grade: 4 Service Grade: 3 Material: Vitrified clay Pipe Size: 100mm

Use: Combined

MAJOR DEFECTS WITHIN LINE, EXCAVATION WILL BE NEEDED TO SORT OUT THESE ISSUES, LSR COVERAGE NOT AN OPTION AS LINE WOULD NEED WARTHOG JETTING TO REMOVE FAT AND GREASE BUT THIS WOULD CAUSE MORE DAMAGE.



## Report Summary

Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 71 R

 Job Number
 Surveyed by (Operator)
 Base Unit
 Date

 340928
 Mr JORDAN GRIMES
 K4E2VQVHT6
 06/06/2017

Section 6 Overview (07/06/2017)

Manholes: MHC 1 L4 to GULLY 4
Pipe Length: 6.71 metres
Structural Grade: 4
Service Grade: 0
Material: Vitrified clay
Pipe Size: 100mm

DEFECTS WITH IN LINE COULD POSSIBLY BE SOLVED BY A STRAIGHT LSR COVERAGE, BUT WILL LEAVE THIS TO OFFICE AND SEE HOW THEY WOULD RECTIFY THIS.

Section 7 Overview (08/06/2017)

Manholes: MHS 2 to MHS 1 BURIED

Pipe Length: 11.23 metres Structural Grade: 3 Service Grade: 3 Material: Vitrified clay Pipe Size: 150mm Use: Combined

Use: Combined

DISLACED JOINT IN LINE NEEDS STRAIGHT LSR COVERAGE.



## Grade 3,4 & 5 Summary

Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire

Job Number	Surveyed by (Operator) Mr JORDAN GRIMES	Base Unit	Date
<b>340928</b>		<b>K4E2VQVHT6</b>	<b>06/06/2017</b>

#### STRUCTURAL DEFECTS

Grade 3; Best practice suggests consideration to be given to repair in the medium term.

Grade 4; Best practice suggests consideration to be given to repair to avoid potential collapse.

Grade 5; Best practice suggests this pipe is at risk of collapse at any time; urgent consideration should be given to repair to avoid collapse.

Structural Defects						
Section	PLR	Grade	Fault Description			
1	MHS 3 X	3	Fracture circumferential from 9 to 3 o'clock			
2	MHF 1 X	4	Broken pipe at 7 o'clock			
			Broken pipe from 2 to 9 o'clock			
3	GULLY 1 X	4	Broken pipe from 2 to 10 o'clock			
4	GULLY 2 X	4	Hole in drain/sewer at 6 o'clock			
			Broken pipe from 12 to 12 o'clock			
5	GULLY 3 X	4	Broken pipe from 8 to 4 o'clock			
6	GULLY 4 X	4	Broken pipe from 12 to 12 o'clock			
7	MHS 2 X	3	Settled deposits fine 10% cross-sectional area loss			
			Fracture circumferential from 7 to 11 o'clock			

#### **SERVICE / OPERATIONAL DEFECTS**

Grade 3; Best practice suggests consideration to be given to maintenance activities in the medium term.

Grade 4; Best practice suggests consideration to be given to maintenance to avoid potential blockage.

Grade 5; Best practice suggests this pipe is at risk of backing up / causing flooding.

Service	Service Defects							
Section	PLR	Grade	Fault Description					
2	MHF 1 X	3	Fracture circumferential from 12 to 12 o'clock					
			Fracture longitudinal at 7 o'clock					
			Fracture longitudinal at 1 o'clock					
			Attached deposits, encrustation from 11 to 6 o'clock 10% cross sectional area loss					
			Fracture longitudinal at 5 o'clock					
5	GULLY 3 X	3	Fracture longitudinal at 3 o'clock					
			Fracture longitudinal at 9 o'clock					
			Attached deposits, grease from 1 to 10 o'clock 15% cross sectional area loss					
7	MHS 2 X	3	Settled deposits fine 10% cross-sectional area loss					
			Fracture circumferential from 7 to 11 o'clock					



# Grade 3,4 & 5 Summary

Metro Rod (Mid Lancs) 95 Newton Rd Billinge Wigan Lancashire WN5 718

		· · · · · · · · · · · · · · · · · · ·	
Job Number	Surveyed by (Operator)	Base Unit	Date
340928	Mr JORDAN GRIMES	K4E2VQVHT6	06/06/2017

#### **ABANDONED SURVEYS**

Camera	Camera no access						
Section	PLR Fault Description						
All surve	All surveys completed.						

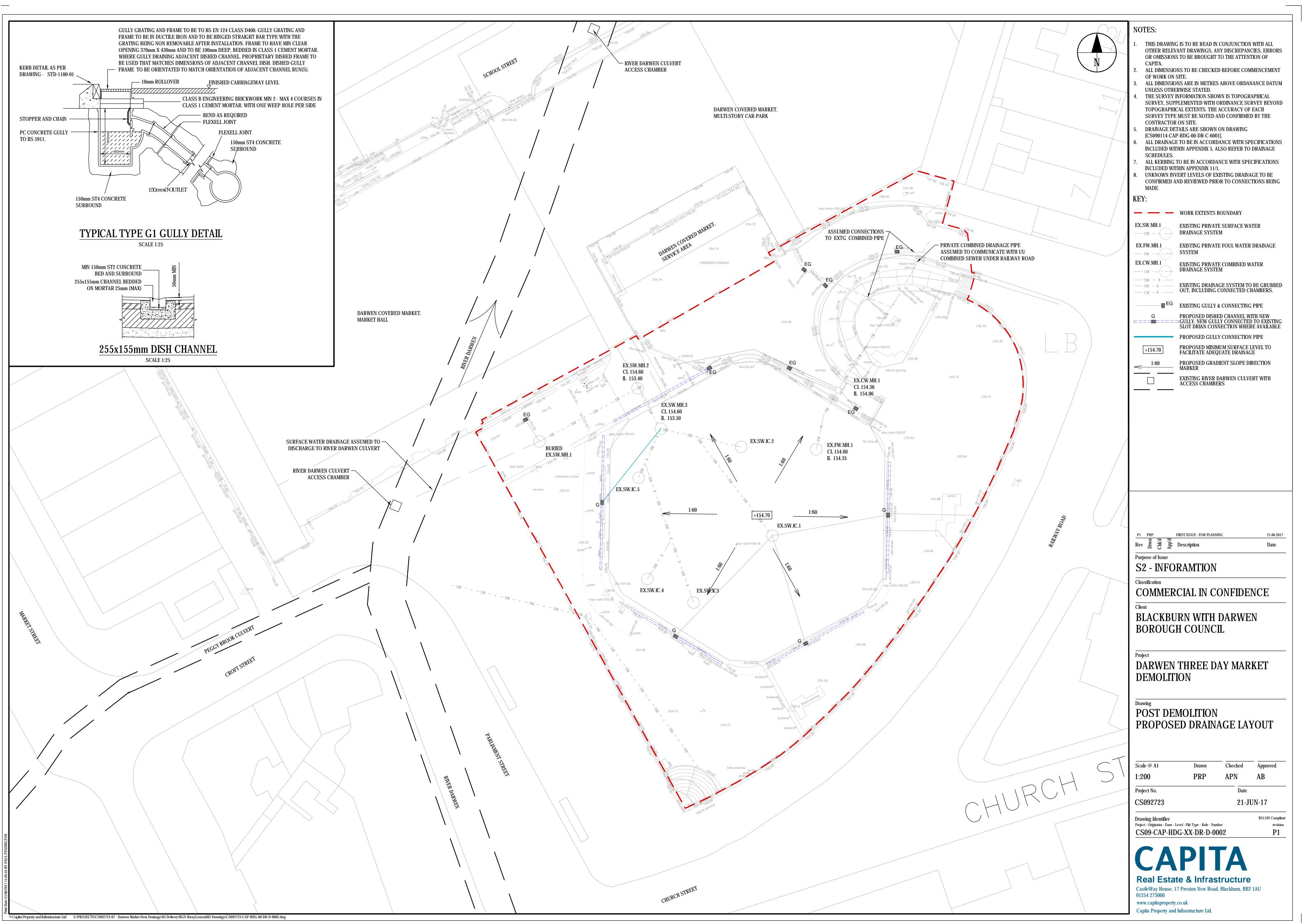
#### **INFORMATION**

These summaries are based on the SRM grading from the WRC



# Appendix C Capita Drawings

C.1 CS-092723-HDG-XX-DR-D-0001-Darwen Three Day Market – Post Demolition – Proposed Drainage Layout



Capita Property and Infrastructure Ltd 5th Floor Churchgate House, 56 Oxford Street, Manchester