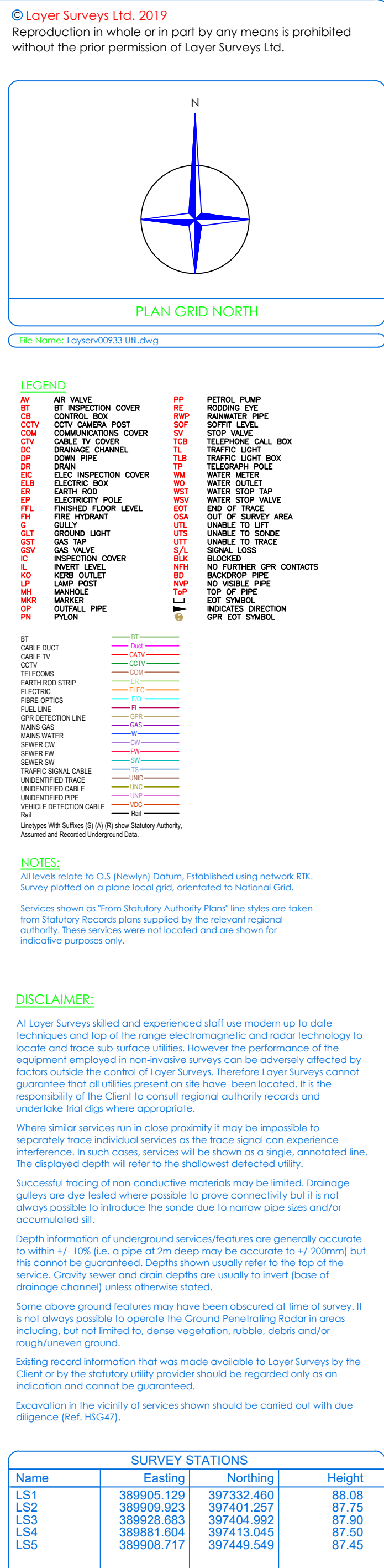
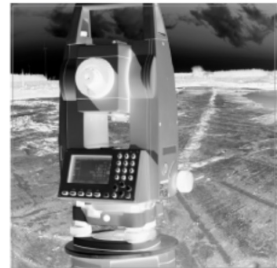
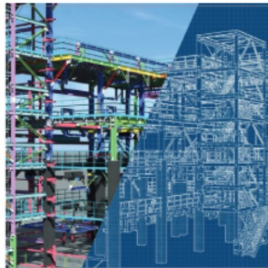
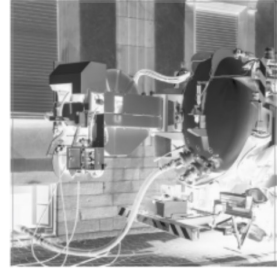


APPENDIX 6

EXISTING DRAINAGE SURVEY



SURVEY STATIONS			
Name	Easting	Northing	Height
LS1	389905.129	397332.460	88.08
LS2	389909.923	397401.257	87.75
LS3	389928.683	397404.992	87.90
LS4	389881.604	397413.045	87.50
LS5	389908.717	397449.549	87.45



LAYER SURVEYS LTD
SEE THE COMPLETE PICTURE

DRAINAGE SURVEY



Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEIYII63

Date
13/08/2021

Client Details:

Integra Consulting
Suite 4,
14-32 Hewitt Street, Manchester,
M15 4GB

Client Contact Name: Neville Shaw

Site Details:

THE FAIRFIELD
BACKWELL STREET
MANCHESTER
M11 1NE

Site Contact Name: Neville Shaw

Contractor Details:

Layer Surveys Ltd
Francis House
Meadowcroft Business Park
Pope Lane
Preston
Lancashire
PR4 4BA

Office Contact Number: 01772 611634

Purpose of Survey:



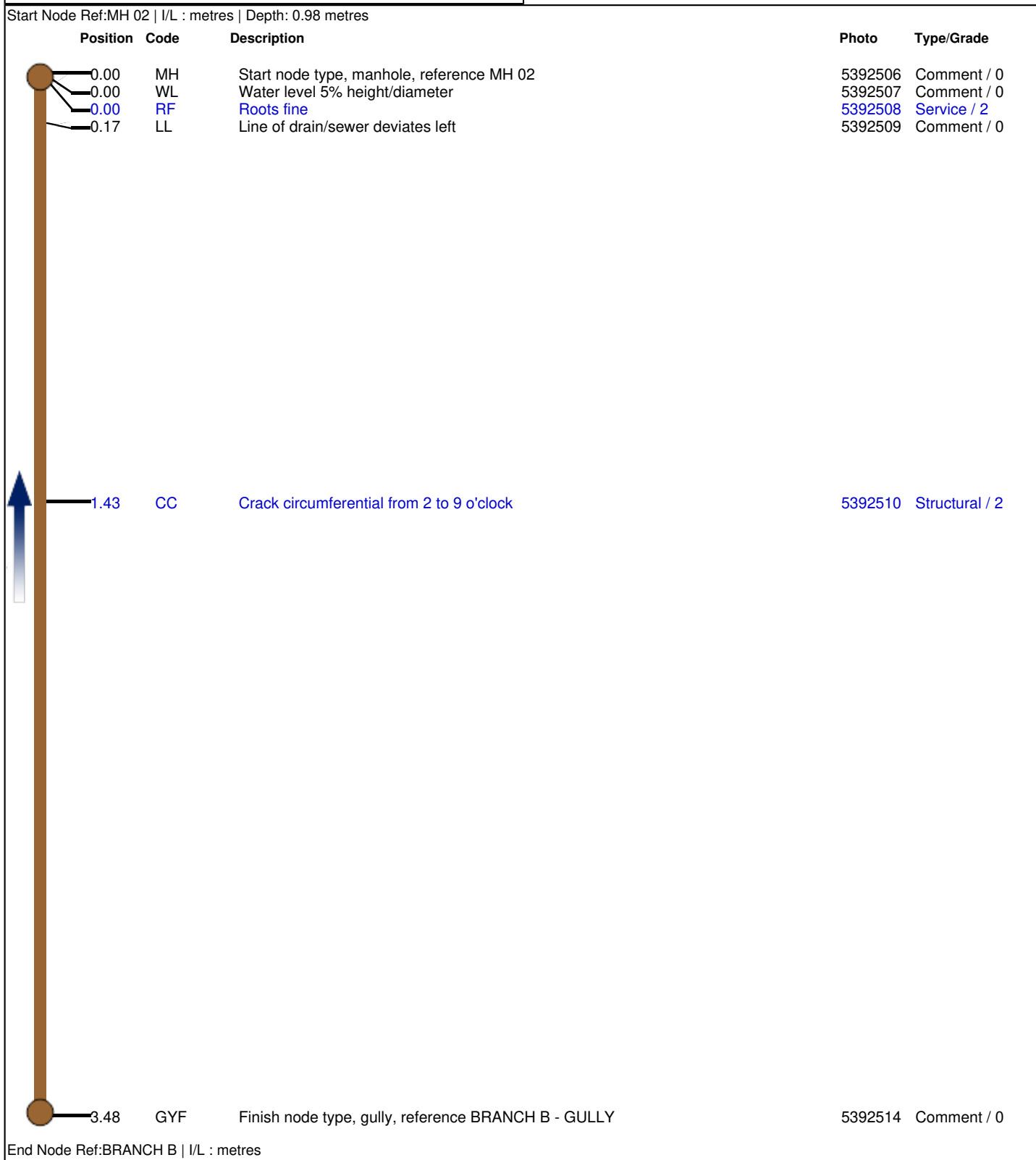
Job Number 000933	Surveyed by (Operator) LEE MORTON	Base Unit ELFEIYII63	Date 13/08/2021
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Page 16	Survey Run Sheet(Survey 6 - MH 03 to INTERNAL MH)
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Surveyed by (Operator) LEE MORTON	Job Number 000933	Pipe Length Reference(PLR) BRANCH B X	Date 13/08/2021	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 2/2	Base Unit ELFEIYII63	Section Number 1
Road THE FAIRFIELD Place BACKWELL STREET Location MANCHESTER		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH 02 End Node BRANCH B Total length 3.48 metres	
Scale 1:0.16 Direction Upstream				





Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEI1163

Date
13/08/2021



Start node type, manhole, reference MH 02



Water level 5% height/diameter



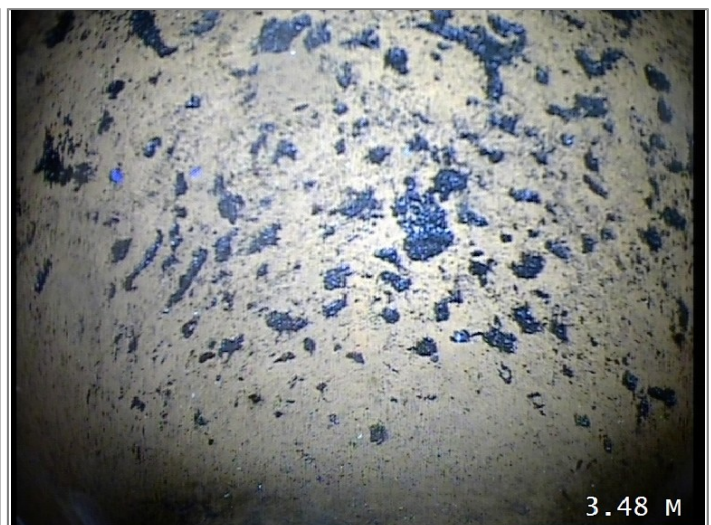
Roots fine



Line of drain/sewer deviates left



Crack circumferential from 2 to 9 o'clock



Finish node type, gully, reference BRANCH B - GULLY



Surveyed by (Operator) LEE MORTON	Job Number 000933	Pipe Length Reference(PLR) MH 02 X	Date 13/08/2021	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/3	Base Unit ELFEIYII63	Section Number 2
Road THE FAIRFIELD Place BACKWELL STREET Location MANCHESTER			Division District Location Details	
Purpose Duty Combined Catchment		Shape/Size 100mm Material Vitrified clay Category		Start Node MH 02 End Node MH 03 Total length 31.79 metres
Scale 1:1.63 Direction Downstream				

Start Node Ref:MH 02 | I/L : metres | Depth: 0.98 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH 02	5392520	Comment / 0
0.00	WL	Water level 5% height/diameter	5392521	Comment / 0
0.10	DER	Settled deposits coarse 20% cross-sectional area loss	5392522	Service / 4
4.81	JN	Junction at 3 o'clock, diameter 100mm	5392524	Comment / 0
5.36	FC	Fracture circumferential from 8 to 12 o'clock	5392530	Structural / 3
9.83	JN	Junction at 3 o'clock, diameter 100mm	5392531	Comment / 0
13.81	CC	Crack circumferential from 8 to 3 o'clock	5392533	Structural / 2
15.24	JN	Junction at 3 o'clock, diameter 100mm	5392536	Comment / 0
20.64	JN	Junction at 3 o'clock, diameter 100mm	5392555	Comment / 0
25.93	JN	Junction at 3 o'clock, diameter 100mm	5392563	Comment / 0
31.79	MHF	Finish node type, manhole, reference MH 03	5392579	Comment / 0

End Node Ref:MH 03 | I/L : metres



Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEI1163

Date
13/08/2021



Start node type, manhole, reference MH 02



Water level 5% height/diameter



Settled deposits coarse 20% cross-sectional area loss



Junction at 3 o'clock, diameter 100mm



Fracture circumferential from 8 to 12 o'clock



Junction at 3 o'clock, diameter 100mm



Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEIYII63

Date
13/08/2021



Crack circumferential from 8 to 3 o'clock



Junction at 3 o'clock, diameter 100mm



Junction at 3 o'clock, diameter 100mm



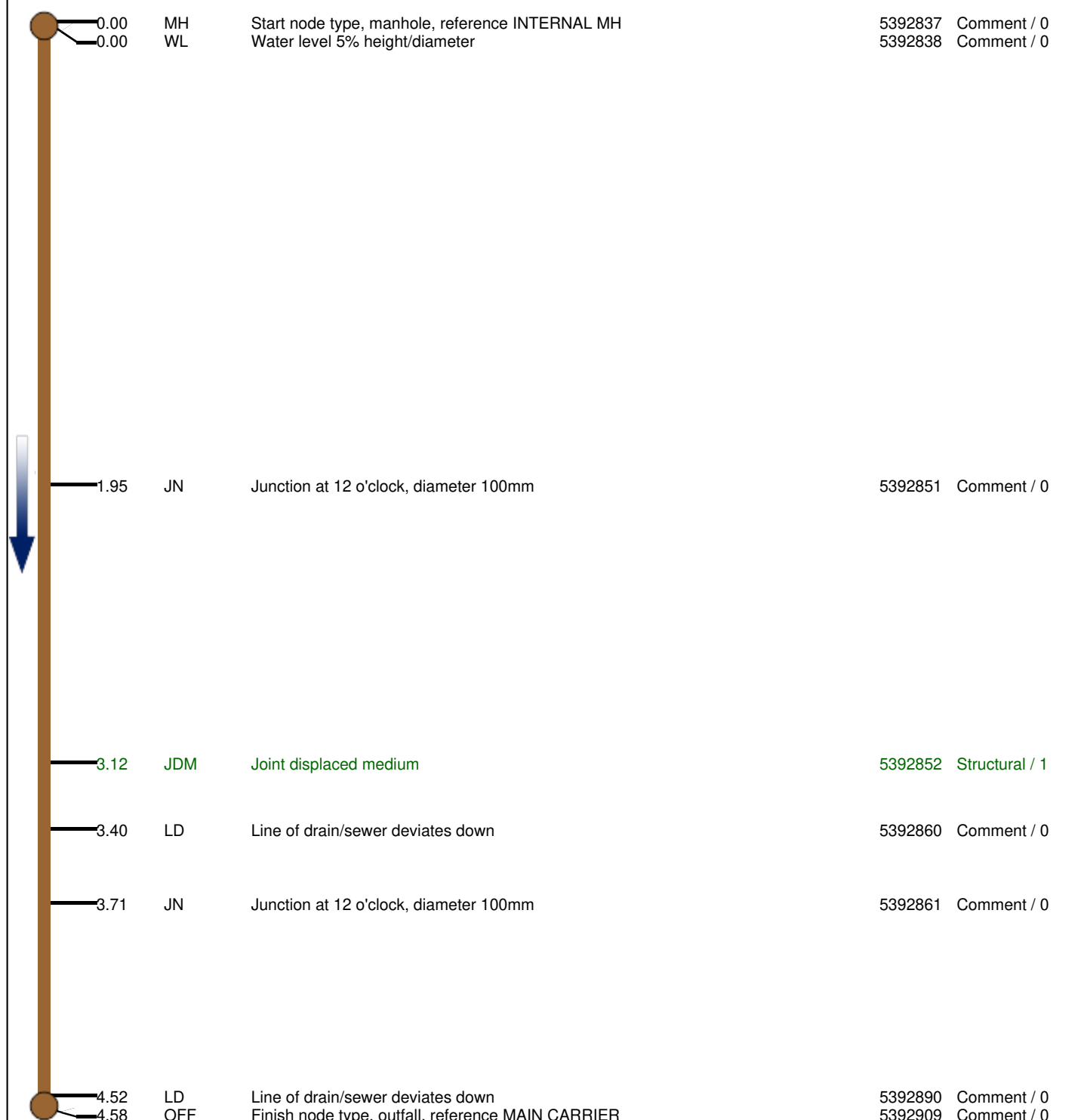
Junction at 3 o'clock, diameter 100mm



Finish node type, manhole, reference MH 03



Surveyed by (Operator) LEE MORTON	Job Number 000933	Pipe Length Reference(PLR) INTERNAL MX	Date 13/08/2021	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/1	Base Unit ELFEIYII63	Section Number 3
Road THE FAIRFIELD Place BACKWELL STREET Location MANCHESTER		Division District Location Details		
Purpose Duty Combined Catchment		Shape/Size 100mm Material Vitrified clay Category		Start Node INTERNAL MH End Node MAIN CARRIER Total length 4.58 metres
Scale 1:0.21 Direction Downstream				

Start Node Ref:INTERNAL MH I/L : metres					Photo	Type/Grade
Position	Code	Description				
0.00	MH	Start node type, manhole, reference INTERNAL MH Water level 5% height/diameter			5392837	Comment / 0
0.00	WL				5392838	Comment / 0
						
1.95	JN	Junction at 12 o'clock, diameter 100mm			5392851	Comment / 0
3.12	JDM	Joint displaced medium			5392852	Structural / 1
3.40	LD	Line of drain/sewer deviates down			5392860	Comment / 0
3.71	JN	Junction at 12 o'clock, diameter 100mm			5392861	Comment / 0
4.52	LD	Line of drain/sewer deviates down			5392890	Comment / 0
4.58	OFF	Finish node type, outfall, reference MAIN CARRIER			5392909	Comment / 0
End Node Ref:MAIN CARRIER I/L : metres						



Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEI1163

Date
13/08/2021



Start node type, manhole, reference INTERNAL MH



Water level 5% height/diameter



Junction at 12 o'clock, diameter 100mm



Joint displaced medium



Line of drain/sewer deviates down



Junction at 12 o'clock, diameter 100mm



Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEIYI163

Date
13/08/2021



Line of drain/sewer deviates down



Finish node type, outfall, reference MAIN CARRIER



Surveyed by (Operator) LEE MORTON	Job Number 000933	Pipe Length Reference(PLR) BRANCH A X	Date 13/08/2021	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit ELFEIYII63	Section Number 4
Road THE FAIRFIELD Place BACKWELL STREET Location MANCHESTER			Division District Location Details	
Purpose Duty Combined Catchment		Shape/Size 100mm Material Vitrified clay Category		Start Node MH 03 End Node BRANCH A Total length 6 metres
Scale 1:0.31 Direction Upstream				

Start Node Ref:MH 03 | I/L : metres | Depth: 0.86 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH 03	5392986	Comment / 0
0.00	WL	Water level 5% height/diameter	5392989	Comment / 0
0.76	DES	Settled deposits fine 10% cross-sectional area loss	5392992	Service / 3
2.07	DER	Settled deposits coarse 40% cross-sectional area loss	5392994	Service / 4
3.21	SA	Survey abandoned - Remark: DEBRIS 75%	5393015	Comment / 0

End Node Ref:BRANCH A | I/L : metres



Job Number
000933

Surveyed by (Operator)
LEE MORTON

Base Unit
ELFEIYI163

Date
13/08/2021



Start node type, manhole, reference MH 03



Water level 5% height/diameter



Settled deposits fine 10% cross-sectional area loss



Settled deposits coarse 40% cross-sectional area loss



Survey abandoned - Remark: DEBRIS 75%



Surveyed by (Operator) LEE MORTON	Job Number 000933	Pipe Length Reference(PLR) BRANCH C X	Date 13/08/2021	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit ELFEIYII63	Section Number 5
Road THE FAIRFIELD Place BACKWELL STREET Location MANCHESTER		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH 03 End Node BRANCH C Total length 4 metres	
Scale 1:0.21 Direction Upstream				

