

DRAINAGE STRATEGY REPORT

**PROPOSED COMMERCIAL DEVELOPMENT
ROCHDALE SPORTS CLUB
REDBROOK
BRIDGEFOLD ROAD
ROCHDALE
OL11 5BX**

Author: Daniel Slattery
Client: Rochdale Padel Club
Doc Ref: rep-tjba-rochdale padel club-DSR-090625.docx

Revision	Date	Reason
0	Jun 2025	Original.
1	Oct 2025	UU comments.

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1 Introduction.

1.1 Purpose of Assessment.

The primary purpose of this report is to identify drainage strategy from the proposed development. The proposal is for a padel club within the curtilage of the existing Rochdale Sports Club grounds. The area where the proposal is to be situated is adjacent the main cricket pitch & car park.

A planning application is to be submitted in due course, presently there are no planning conditions to discharge.

The Site will be assessed in accordance with the national drainage hierarchy for surface water disposal & exceedance characteristics, also considering the proposed end adopters and their requirements.

Regarding Site assessment, this report will appraise the existing and local drainage infrastructure, assess the suitability of the proposed development, giving recommendations for drainage design & management, specifically for approval of the LLFA/EA/sewerage undertakers, as applicable.

Drainage from new developments is to be designed to follow the national drainage hierarchy for surface water discharge to the following networks in order of preference:

- infiltration.
- Watercourse.
- surface water sewer.
- combined sewer.

Flow rates (existing & proposed) are to be estimated for approval using the following methodology:

- Development should aim to deliver greenfield runoff on greenfield sites up to a 100yr rainfall event, considering climate change.
- Development should aim for a minimum reduction in surface water runoff rates of 50% for Brownfield sites on a 1yr rainfall event.
- Development should be designed so that there is no flooding to the development in a 30yr event, and so that there is no property flooding in a 100yr event considering climate change.

1.2 LLFA Consultation.

United Utilities provided a consultation on the 30th Oct 2025.

The consultation indicated that UU wanted the drainage hierarchy investigation in full prior to them allowing connection of surface water into a UU sewer.

1.3 LPA Planning.

No planning comments at the time of writing.

2 Site Proposals.

2.1 Location Plan.

See Location Plan in Appendix showing the area features.

Rochdale Sports Club is situated to the south of Bridgefold Road, in the Red Brook valley area between Spotland, Bamford & Oakenrod.

The Application Site is located to the east side of the cricket pitch on landscaped sports fields.

Red Brook was culverted c1970s, and is approximately 25m south of the Application Site boundary.

2.2 Site Plan.

Refer to Existing & Proposed Plans in the appendix.

The Application Site comprises a grass landscaped area bound by a wooded area to the east, and the existing cricket pitch to the west.

Existing Site areas are as follows:

Ex hardstandings	0 sqm.
------------------	--------

Soft landscaping	2400 sqm.
Total area	2400 sqm.

The padel club will comprise a nominally rectangular piece of land, accessed directly from the car park. It is proposed to have an entrance building with office, bar/seating area and changing facilities, leading through to 6 padel courts (2 uncovered, 4 covered).

The general site can be made permeable apart from the roof area to the entrance building & canopy area.

Proposed Site areas are as follows:

Building roof/canopy area (impermeable)	850 sqm.
Proposed courts & pathways (permeable)	1550 sqm.
Total area	2400 sqm.

2.3 Derivation of Data, Surveys and Models.

2.3.1 Existing and proposed topography.

A topographic survey has been undertaken which gives the approximate following levels in maOD:

Northwest corner: 128.39

Northeast corner: 129.12

Southwest corner: 127.90

Southeast corner: 128.00

There is no proposed site level indicated as yet.

2.3.2 Geology.

BGS Maps record the superficial cover to be glaciofluvial sand & gravels.

2.3.3 Drainage Surveys.

A drainage survey was undertaken by North West Drain Services for the existing cricket club in 2020.

The drainage survey noted a combined sewer around the front and east side of the existing clubhouse, heading north towards the UU combined system.

It also recorded a surface water network around the existing cricket pitch, comprising land drains and a catch pit, heading towards the south where the watercourse is located.

Refer to Appendix for report & plan.

2.3.4 Sewer Undertaker Records.

Sewer records for the local area show the nearest combined sewer to be to the north of the Site in Coptrod Road, MH 5404. The UU plans show the combined network associated with this manhole to be a private network which communicates with the UU adopted sewer at the next downstream manhole (MH 5401)

There is also a culverted watercourse to the south of the Site. The Application Site has manhole connections to this (MHs 5201-5203).

Refer to full plan in the Appendix.

2.3.5 BGS Borehole Records.

No relevant boreholes in close proximity to the Site.

2.3.6 Site Investigations.

No site investigation information has been obtained to date.

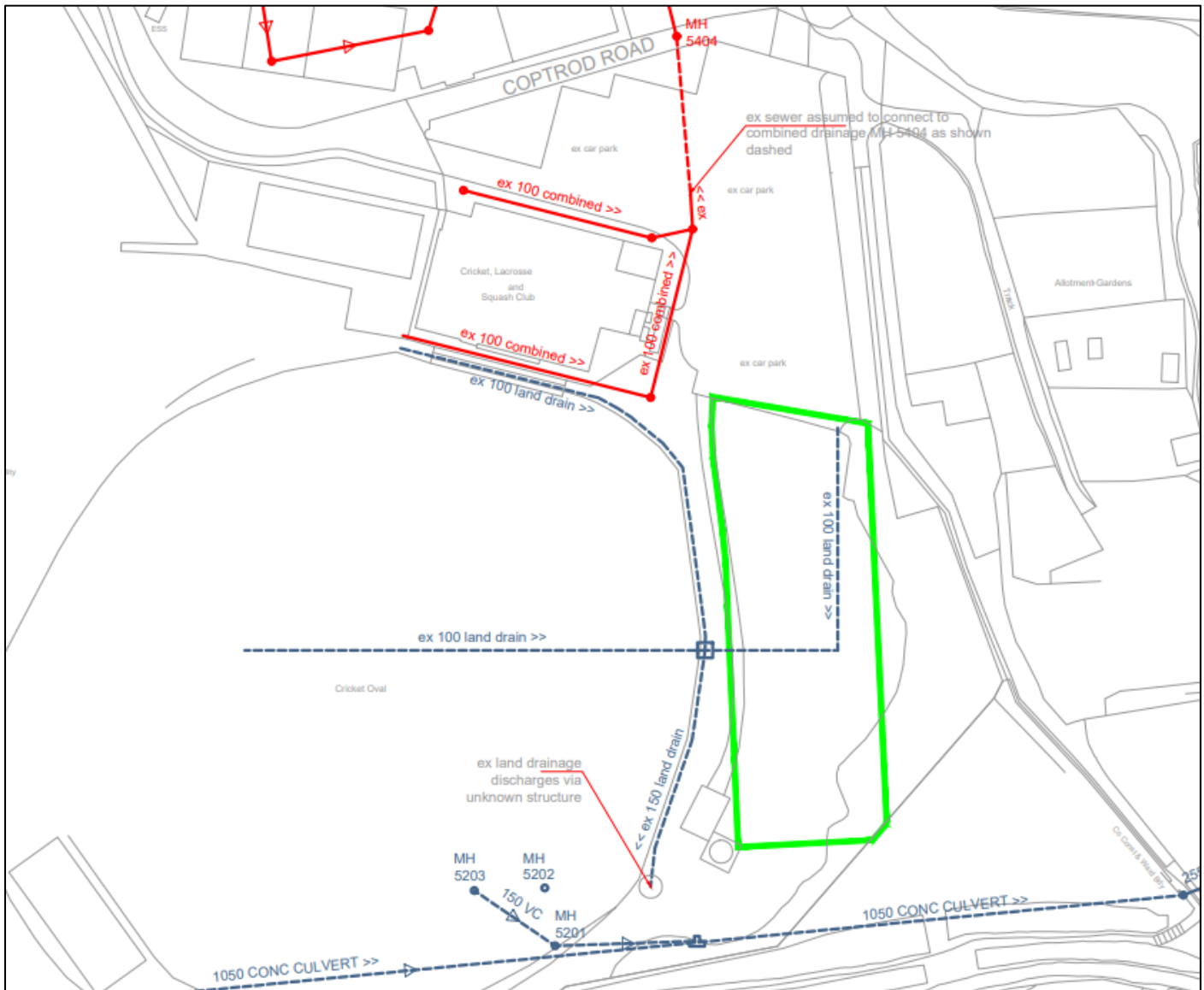
3 Drainage Strategy.

3.1 Existing Site rainfall & drainage systems.

The existing drainage around the site comprises a combined system which appears to communicate with the existing United Utilities network to the north of the Site.

There is also a network of land drains around the cricket field, which either flow to a soakaway, or manhole which then discharges to the culverted watercourse to the south.

Refer to indicative drainage plan below:



Local rainfall characteristics are as follows:

M5-60 rainfall depth (mm)	20
'r' ratio M5-60 / M5-2day	0.3
FEH/FSR conversion factor	1.12
Hydrological region	10

DESIGN RAINFALL 1YR (THE WALLINGFORD PROCEDURE)

Design rainfall in accordance with the Wallingford Procedure

Tedds calculation version 2.0.02

Design rainfall intensity

Location of catchment area
Storm duration

Other
D = **30** min

Return period	Period = 1 yr
Ratio 60 min to 2 day rainfall of 5 yr return period	r = 0.300
5-year return period rainfall of 60 minutes duration	M5_60min = 20.0 mm
Increase of rainfall intensity due to global warming	p _{climate} = 0 %
Factor Z1 (Wallingford procedure)	Z1 = 0.77
Rainfall for 30min storm with 5 year return period	M5_30min _i = Z1 ' M5_60min = 15.4 mm
Factor Z2 (Wallingford procedure)	Z2 = 0.62
Rainfall for 30min storm with 1 year return period	M1_30min = Z2 ' M5_30min _i = 9.6 mm
Design rainfall intensity	I _{max} = M1_30min / D = 19.1 mm/hr

DESIGN RAINFALL 30YR (THE WALLINGFORD PROCEDURE)

Design rainfall in accordance with the Wallingford Procedure

Tedds calculation version 2.0.02

Design rainfall intensity

Location of catchment area	Other
Storm duration	D = 30 min
Return period	Period = 30 yr
Ratio 60 min to 2 day rainfall of 5 yr return period	r = 0.300
5-year return period rainfall of 60 minutes duration	M5_60min = 20.0 mm
Increase of rainfall intensity due to global warming	p _{climate} = 0 %
Factor Z1 (Wallingford procedure)	Z1 = 0.77
Rainfall for 30min storm with 5 year return period	M5_30min _i = Z1 ' M5_60min = 15.4 mm
Factor Z2 (Wallingford procedure)	Z2 = 1.53
Rainfall for 30min storm with 30 year return period	M30_30min = Z2 ' M5_30min _i = 23.5 mm
Design rainfall intensity	I _{max} = M30_30min / D = 47.1 mm/hr

DESIGN RAINFALL 100YR (THE WALLINGFORD PROCEDURE)

Design rainfall in accordance with the Wallingford Procedure

Tedds calculation version 2.0.02

Design rainfall intensity

Location of catchment area	Other
Storm duration	D = 30 min
Return period	Period = 100 yr
Ratio 60 min to 2 day rainfall of 5 yr return period	r = 0.300
5-year return period rainfall of 60 minutes duration	M5_60min = 20.0 mm
Increase of rainfall intensity due to global warming	p _{climate} = 0 %
Factor Z1 (Wallingford procedure)	Z1 = 0.77
Rainfall for 30min storm with 5 year return period	M5_30min _i = Z1 ' M5_60min = 15.4 mm
Factor Z2 (Wallingford procedure)	Z2 = 1.99
Rainfall for 30min storm with 100 year return period	M100_30min = Z2 ' M5_30min _i = 30.7 mm
Design rainfall intensity	I _{max} = M100_30min / D = 61.4 mm/hr

3.2 Rainfall Climate Change Impacts.

Climate change allowances to peak rainfall intensity are given nationally across the whole of England, based upon river management catchment areas. Refer to graphic inset:

Given the proposed commercial end use, the 2050s epoch is considered suitable for climate change estimation cross referenced with the central allowance potential; which suggests the following allowance to be used:

30yr rainfalls +25% climate change allowance.

100yr rainfalls +25% climate change allowance.

3.3% annual exceedance rainfall event		
Epoch	Central allowance	Upper end allowance
2050s	25%	35%
2070s	30%	40%
1% annual exceedance rainfall event		
Epoch	Central allowance	Upper end allowance
2050s	25%	40%
2070s	30%	45%
*Use '2050s' for development with a lifetime up to 2060 and use the 2070s epoch for development with a lifetime		

3.3 Proposed Surface Water Drainage.

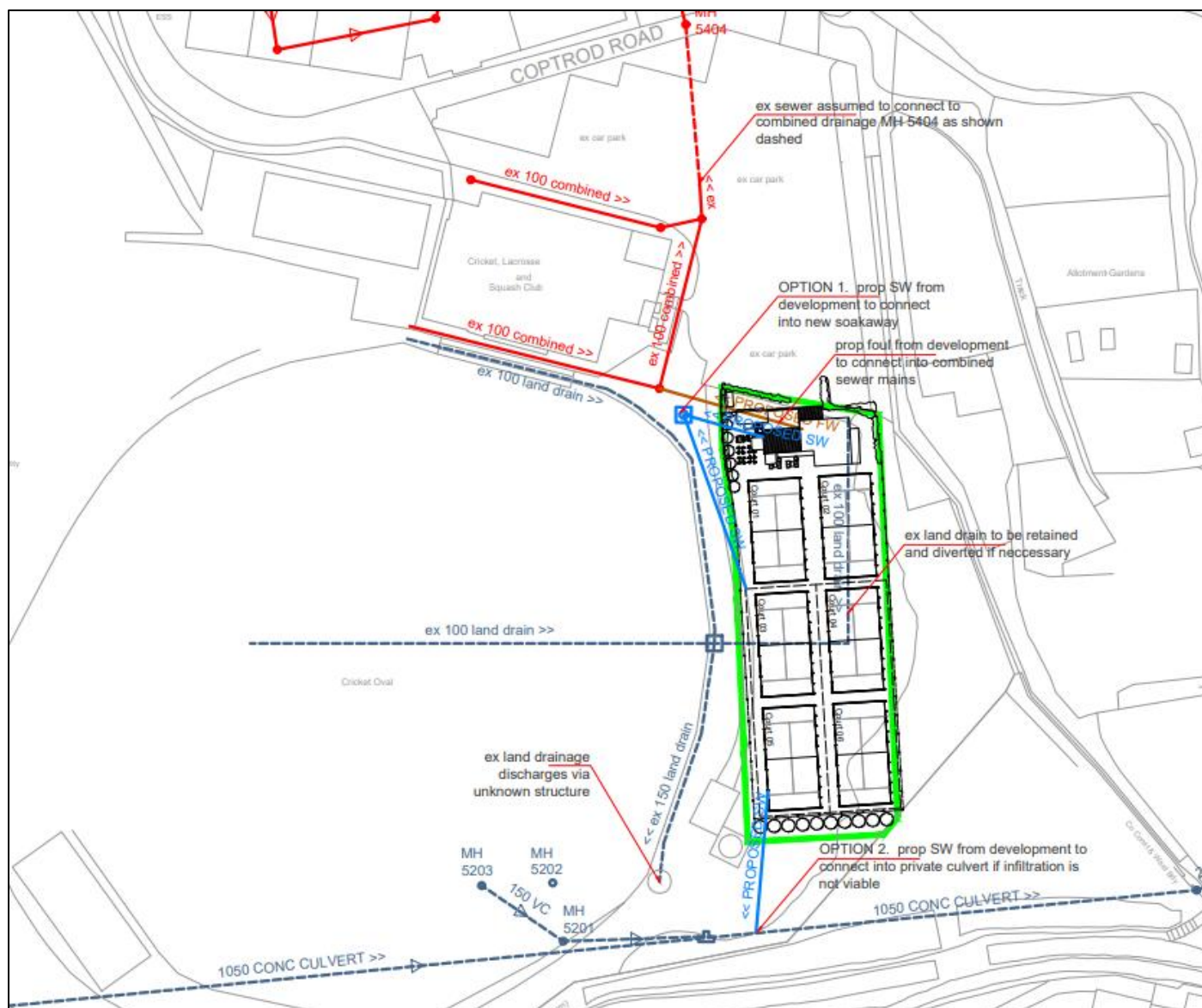
3.3.1 Infiltration.

BGS maps suggest the majority of the Application Site is underlain by glaciofluvial sand & gravels which includes all the land under the proposed building and courts 1-4.

The very south part of the site is potentially partly underlain by some made ground attributed to the former Red Brook landfill area, which may have varying properties.

Site investigation & infiltration testing should be undertaken in due course.

It is anticipated that all external areas such as the open air courts and general pathways, will be suitable for permeable paving. The proposed roof and canopy areas should be suitable for connection to soakaway, subject to satisfactory infiltration testing (Option1 on plan illustrated below).



3.3.2 Watercourse.

Red Brook is located nominally 25m south of the Site in a 1050 concrete culvert. Discharge to this watercourse will only be used if site investigations indicate poor infiltration results (Option 2 on plan above).

3.3.3 SW Sewer.

NO SURFACE WATER FROM THE SITE WILL BE DIRECTLY OR INDIRECTLY DISCHARGED TO THE UNITED UTILITIES PUBLIC SEWER.

3.3.4 Combined Sewer.

Not required.

3.4 Proposed Foul Water Drainage.

There are existing combined sewers in the vicinity of the proposed building, adjacent to the existing clubhouse. It is proposed to connect foul drainage to this network.

3.5 Adoption.

The drainage systems drainage will remain private.

3.6 Maintenance.

Maintenance of SUDS will be private.

4 Conclusion & Residual risks.

4.1 Drainage.

It is considered that the proposal will be suitable for infiltration techniques such as permeable paving/surfaces and soakaway design.

This report should be suitable for initial planning validation.

It is considered that a condition for detailed drainage design can be placed on a planning approval if the LPA are minded to approve the application.

Prior to detailed design, the following will be required:

- Site investigation & infiltration testing.
- Full drainage surveys of the existing site drainage systems.

4.2 UU Consultation Response.

An indicative drainage plan has been included in the report.

Surface water drainage proposals will discharge either via infiltration if possible, OR via attenuation to the culverted (Red Brook) watercourse if infiltration is not suitable.

No surface water from the development will be discharged to the United Utilities public sewer.

Signed.....  .

D.S. Slattery BSc (Hons).

T J Booth Associates.

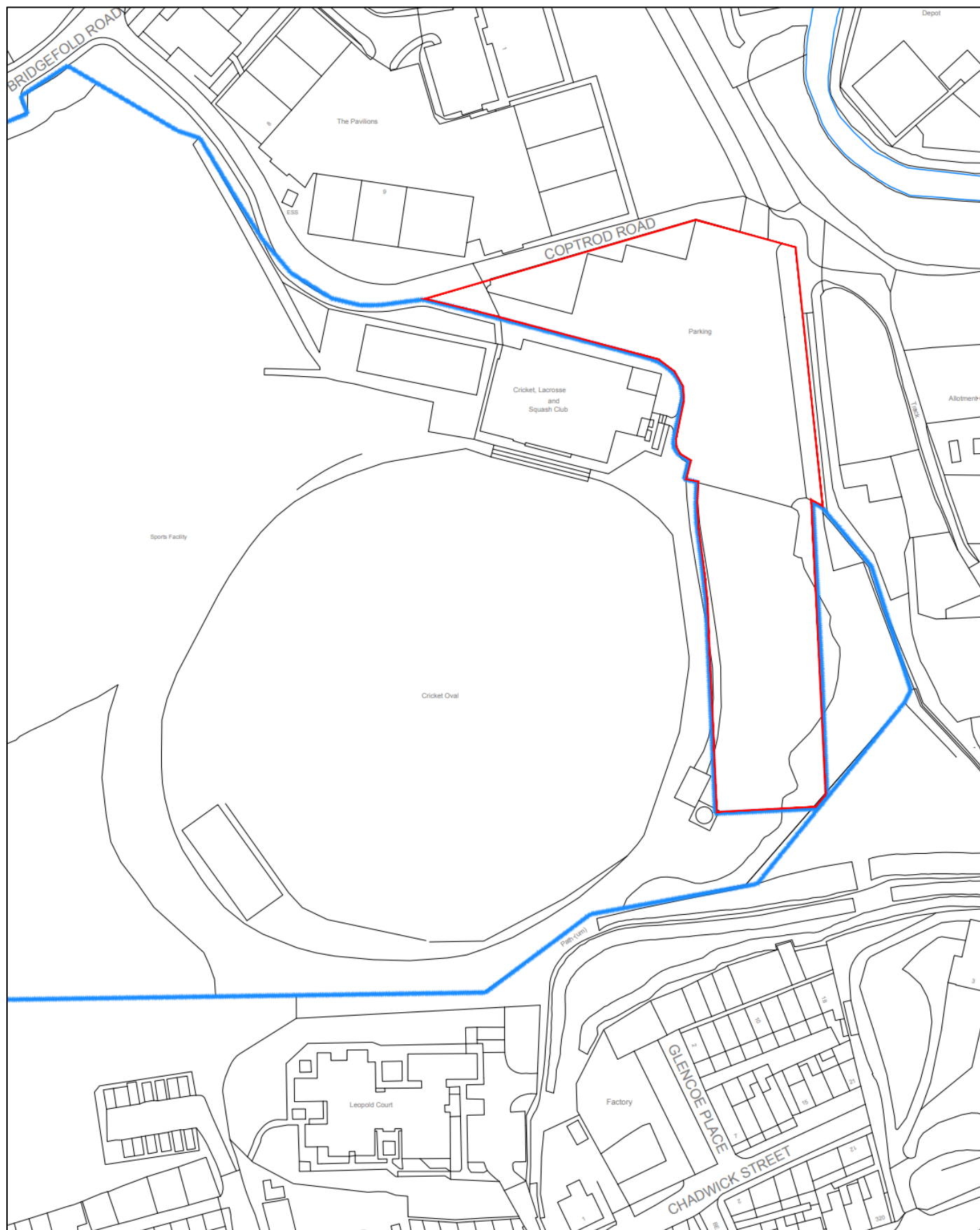
Authorised...  .

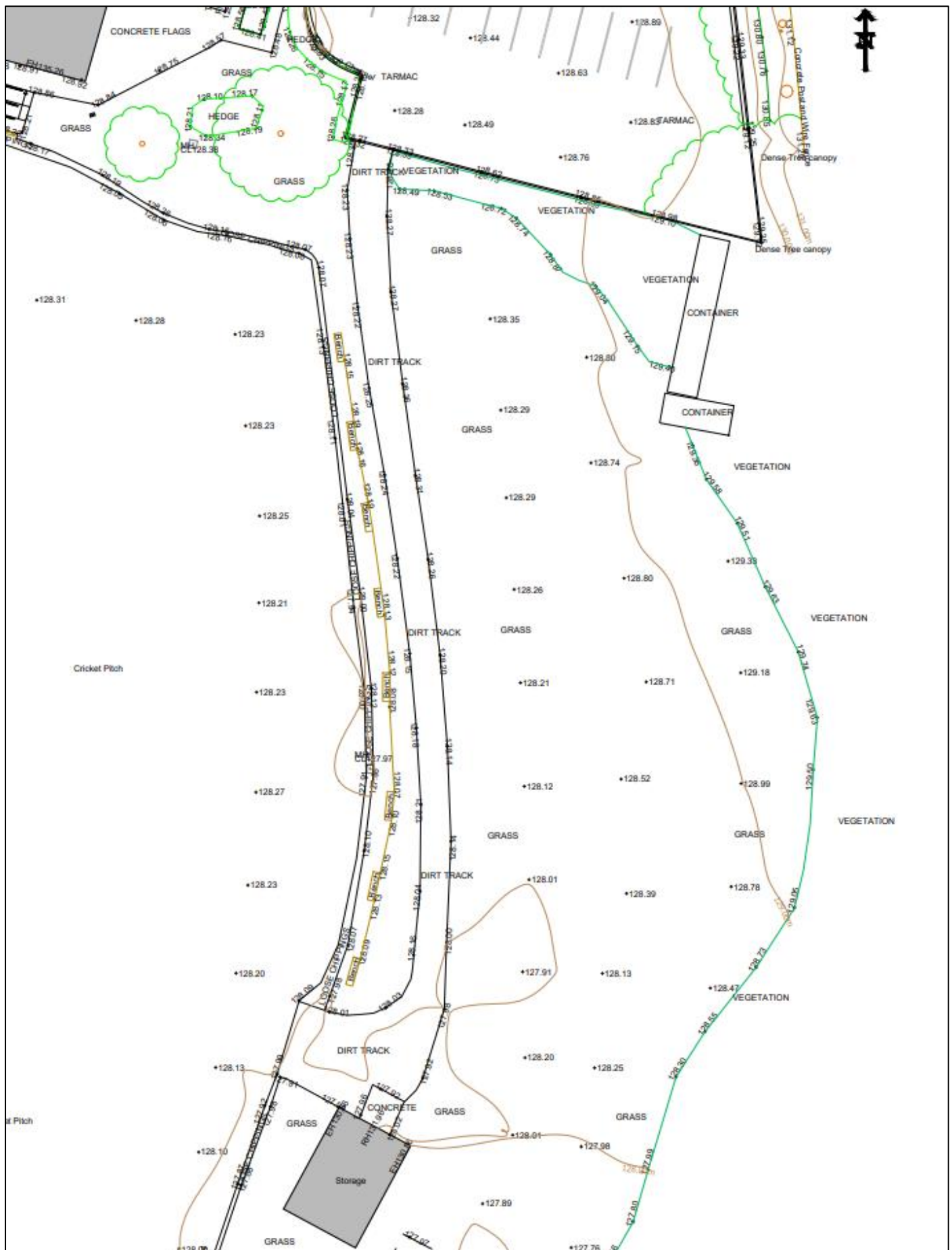
T J Booth BSc (Hons), C. Eng. C. Env. MICE.

T J Booth Associates.

5 Appendix.

5.1 Location Plan.



5.2 Existing Plans/Topographic Survey.

5.3 Proposed Site Plan.



5.4 Drainage Survey & Plan.





Inspection Report

Page 1

Rochdale Cricket Club - CCTV Survey Report : 20/08/20

Name : NORTH WEST DRAIN SERVICES LTD
 Contact :
 Location : Unit G10 Falcon Mill
 Town : Bolton
 Region : Lancashire
 Postcode : BL1 8BL
 Tel : 01204 689677
 Mobile : 07756631110 / 07429611080
 Email : drainservices@googlemail.com
 Fax :

Client Information

Name : Googlies Ltd
 Contact :
 Location : 2 Beamonds Way
 Town : Rochdale
 Region : Greater Manchester
 Postcode : OL11 5NL
 Tel :
 Mobile :
 Email :
 Fax :

Site Information

Name : Rochdale Cricket Club
 Contact :
 Location : Bridgeford Road
 Town : Rochdale
 Region : Greater Manchester
 Postcode : OL11 5BX
 Tel :
 Mobile :
 Email :
 Fax :

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Graded defect count per section

This section shows the number of graded defects per individual survey. A grade 5 defect being serious and indicating more urgent repair. Grade 3-4 defects are less serious and are less urgent concerning repair. Grade 1-2 defects are relatively minor and could be monitored and/or repaired if thought necessary.

Section: 1 **Start:** Catchpit 1 **End:** Z **Road:** Bridgeford Road
Length: 16.41 **Use:** Surface Water **Depth:** 0 **Place:** Rochdale

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 16.41m	100	Polyethylene	0	0	1

Section: 2 **Start:** Catchpit 1 **End:** Z **Road:** Bridgeford Road
Length: 17.88 **Use:** Surface Water **Depth:** 0 **Place:** Rochdale

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 17.88m	150	Polyethylene	0	0	0

Section: 3 **Start:** Catchpit 1 **End:** Inlet 2 **Road:** Bridgeford Road
Length: 9.03 **Use:** Surface Water **Depth:** 0 **Place:** Rochdale

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 09.03m	100	Polyethylene	0	0	1

Section: 4 **Start:** Catchpit 1 **End:** Inlet 3 **Road:** Bridgeford Road
Length: 20.45 **Use:** Surface Water **Depth:** 0 **Place:** Rochdale

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 06.72m	100	Polyvinyl Chloride	0	0	0
06.72m - 20.45m	100	Polyethylene	0	0	1

Section: 5 **Start:** MH01 **End:** Z **Road:** Bridgeford Road
Length: 17.53 **Use:** Surface Water **Depth:** 0 **Place:** Rochdale

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 17.53m	100	Vitrified Clay (i.e. all clayware)	1	0	0

Section: 6 **Start:** MH01 **End:** Z **Road:** Bridgeford Road
Length: 12.05 **Use:** Surface Water **Depth:** 0 **Place:** Rochdale

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 12.05m	100	Vitrified Clay (i.e. all clayware)	2	1	0

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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**NorthWest
DrainServices**

Inspection Report

Page 3

Site: Bridgeford Road Rochdale

Section 1

Client: Googlies Ltd	Location (Street Name): Bridgeford Road	City/Town/Village Rochdale	Cust Job Ref.	Surveyors Name: Shaun	Date: 20/08/2020
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Start Node Ref: Catchpit 1	Finish Node Ref: Z	Direction: U	Height/Dia: 100
Start Node Depth: 0	Finish Node Depth: 0	Use: S	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	16.41	

Position	Code	Description	CD	Pic	Grade
00.00m	CP	Start node type, catch pit			0
00.00m	WL	S1 Water level 10%	S1	0_1	0
01.56m	LRQ	Line of drain/sewer deviates right [quarter]			0
05.32m	WL	C1 Water level 25%	C1	0_3	0
06.70m	WL	C1 Water level 60%	C1	0_4	0
09.31m	WL	C1 Water level 25%	C1	0_5	0
13.29m	WL	C1 Water level 30%	C1	0_6	0
15.19m	WL	C1 Water level 10%	C1	0_7	0
16.41m	WL	S2 Water level 25%	S2	0_8	0
16.41m	D	Deformed drain/sewer 10%			5
16.41m	SA	Survey abandoned			0

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Descriptive Report with Remarks and Observation Images

Pos	Code	Description	Image
00.00m	CP	Start node type, catch pit Catchpit 1	
00.00m	S1 WL	Water level 0m - 0m: 10% Height/Diameter	Image Provided - Ref: 0_1
01.56m	LRQ	Line of drain/sewer deviates right [quarter]	
05.32m	C1 WL	Water level: 25% Height/Diameter	Image Provided - Ref: 0_3
06.70m	C1 WL	Water level: 60% Height/Diameter	Image Provided - Ref: 0_4

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Pos	Code	Description	Image
09.31m	C1 WL	Water level: 25% Height/Diameter	Image Provided - Ref: 0_5
13.29m	C1 WL	Water level: 30% Height/Diameter	Image Provided - Ref: 0_6
15.19m	C1 WL	Water level: 10% Height/Diameter	Image Provided - Ref: 0_7

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Pos	Code	Description	Image
16.41m	S2 WL	Water level 16.41m - 0m: 25% Height/Diameter	Image Provided - Ref: 0_8
16.41m	D	Deformed drain/sewer: 10% Height/Diameter - Grade 5	
16.41m	SA	Survey abandoned Z - Abandoned Due To Deformed Drain	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Site: Bridgeford Road Rochdale

Section 2

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Googlies Ltd	Bridgeford Road	Rochdale		Shaun	20/08/2020

Start Node Ref:	Catchpit 1	Finish Node Ref:	Z	Direction:	D	Height/Dia:	150
Start Node Depth:	0	Finish Node Depth:	0	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	PE	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	17.88	

Position	Code	Description	CD	Pic	Grade
00.00m	CP	Start node type, catch pit			0
00.00m	CUW	S1 Loss of vision, camera under water	S1	1_1	0
00.51m	CUW	F1 Loss of vision, camera under water	F1	1_-1	0
00.51m	WL	S2 Water level 15%	S2	1_2	0
09.73m	JN	Junction 2 : 100mm Diameter			0
11.15m	CUW	S3 Loss of vision, camera under water	S3	1_4	0
14.17m	CUW	F3 Loss of vision, camera under water	F3	1_-4	0
14.17m	WL	C2 Water level 50%	C2	1_5	0
15.11m	CUW	S4 Loss of vision, camera under water	S4	1_6	0
17.88m	SA	Survey abandoned			0

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
-----------------	---	-----------------	---	-----------------	---	-----------------	---	-----------------	---



Descriptive Report with Remarks and Observation Images

Pos	Code	Description	Image
00.00m	CP	Start node type, catch pit Catchpit 1	
00.00m	S1 CUW	Loss of vision, camera under water 0m - 0.51m	Image Provided - Ref: 1_1
00.51m	F1 CUW	Loss of vision, camera under water Defect End	
00.51m	S2 WL	Water level 0.51m - 0m: 15% Height/Diameter	Image Provided - Ref: 1_2
09.73m	JN	Junction at 2 o'clock: 100mm Diameter	
11.15m	S3 CUW	Loss of vision, camera under water 11.15m - 14.17m	Image Provided - Ref: 1_4
14.17m	F3 CUW	Loss of vision, camera under water Defect End	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Pos	Code	Description	Image
14.17m	C2 WL	Water level: 50% Height/Diameter	Image Provided - Ref: 1_5
15.11m	S4 CUW	Loss of vision, camera under water 15.11m - 0m	Image Provided - Ref: 1_6
17.88m	SA	Survey abandoned Z - Abandoned Survey Due To Water Level	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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NorthWest DrainServices

Inspection Report

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Site: Bridgeford Road Rochdale
Section 3

Client: Googlies Ltd	Location (Street Name): Bridgeford Road	City/Town/Village Rochdale	Cust Job Ref.	Surveyors Name: Shaun	Date: 20/08/2020
-------------------------	--	-------------------------------	---------------	--------------------------	---------------------

Start Node Ref: Start Node Depth: Start Node Coordinate:	Catchpit 1 0	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Inlet 2 0	Direction: Use: Material:	U S PE	Height/Dia: Shape: Cleaned	100 C N
--	-----------------	---	--------------	---------------------------------	--------------	----------------------------------	---------------

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	9.03	

Position	Code	Description	CD	Pic	Grade
00.00m	CP	Start node type, catch pit			0
00.00m	WL	S1 Water level 10%	S1	2_1	0
00.91m	CN	Connection other than junction 12 : 100mm Diameter		2_2	0
01.64m	LRQ	Line of drain/sewer deviates right [quarter]			0
03.00m	WL	F1 Water level 10%	F1	2_-1	0
03.18m	CN	Connection other than junction 9 : 100mm Diameter			0
04.13m	WL	S2 Water level 15%	S2	2_5	0
07.67m	WL	F2 Water level 15%	F2	2_-5	0
08.48m	CN	Connection other than junction 9 : 100mm Diameter			0
08.48m	WL	S3 Water level 10%	S3	2_7	0
08.67m	D	Deformed drain/sewer 25%		2_8	5
09.03m	SA	Survey abandoned			0

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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**NorthWest
DrainServices**

Inspection Report

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Descriptive Report with Remarks and Observation Images

Pos	Code	Description	Image
00.00m	CP	Start node type, catch pit Catchpit 1	
00.00m	S1 WL	Water level 0m - 3m: 10% Height/Diameter	Image Provided - Ref: 2_1
00.91m	CN	Connection other than junction at 12 o'clock: 100mm Diameter	Image Provided - Ref: 2_2
01.64m	LRQ	Line of drain/sewer deviates right [quarter]	
03.00m	F1 WL	Water level Defect End: 10% Height/Diameter	
03.18m	CN	Connection other than junction at 9 o'clock: 100mm Diameter	
04.13m	S2 WL	Water level 4.13m - 7.67m: 15% Height/Diameter	Image Provided - Ref: 2_5

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
-----------------	---	-----------------	---	-----------------	---	-----------------	---	-----------------	---



**NorthWest
DrainServices**

Inspection Report

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Pos	Code	Description	Image
07.67m	F2 WL	Water levelDefect End: 15% Height/Diameter	
08.48m	CN	Connection other than junction at 9 o'clock: 100mm Diameter	
08.48m	S3 WL	Water level8.48m - 0m: 10% Height/Diameter	Image Provided - Ref: 2_7
08.67m	D	Deformed drain/sewer: 25% Height/Diameter - Grade 5	Image Provided - Ref: 2_8
09.03m	SA	Survey abandoned Inlet 2	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Site: Bridgeford Road Rochdale

Section 4

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Googlies Ltd	Bridgeford Road	Rochdale		Shaun	20/08/2020

Start Node Ref:	Catchpit 1	Finish Node Ref:	Inlet 3	Direction:	U	Height/Dia:	100
Start Node Depth:	0	Finish Node Depth:	0	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	PVC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	20.45	

Position	Code	Description	CD	Pic	Grade
00.00m	CP	Start node type, catch pit			0
00.00m	WL	Water level 0%			0
05.69m	WL	S1 Water level 10%	S1	3_2	0
06.72m	MC	Material of drain/sewer changes			0
07.47m	LLQ	Line of drain/sewer deviates left [quarter]			0
07.69m	LLH	Line of drain/sewer deviates left [half]			0
17.99m	WL	S2 Water level 10%	S2	3_6	0
18.56m	WL	C2 Water level 30%	C2	3_7	0
20.11m	D	Deformed drain/sewer 15%		3_8	5
20.45m	SA	Survey abandoned			0

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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**NorthWest
DrainServices**

Inspection Report

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Descriptive Report with Remarks and Observation Images

Pos	Code	Description	Image
00.00m	CP	Start node type, catch pit Catchpit 1	
00.00m	WL	Water level: 0% Height/Diameter	
05.69m	S1 WL	Water level 5.69m - 0m: 10% Height/Diameter	Image Provided - Ref: 3_2
06.72m	MCPE	Material of drain/sewer changes: Material Changes To Polyethylene	
07.47m	LLQ	Line of drain/sewer deviates left [quarter]	
07.69m	LLH	Line of drain/sewer deviates left [half]	
17.99m	S2 WL	Water level 17.99m - 0m: 10% Height/Diameter	Image Provided - Ref: 3_6

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Pos	Code	Description	Image
18.56m	C2 WL	Water level: 30% Height/Diameter	Image Provided - Ref: 3_7
20.11m	D	Deformed drain/sewer: 15% Height/Diameter - Grade 5	Image Provided - Ref: 3_8
20.45m	SA	Survey abandoned Inlet 3 - Abandoned Due To Deformed Drain	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Site: Bridgeford Road Rochdale

Section 5

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Googlies Ltd	Bridgeford Road	Rochdale		Shaun	20/08/2020

Start Node Ref:	MH01	Finish Node Ref:	Z	Direction:	U	Height/Dia:	100
Start Node Depth:	0	Finish Node Depth:	0	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	17.53	

Position	Code	Description	CD	Pic	Grade
00.00m	MH	Start node type, manhole			0
00.00m	WL	Water level 0%			0
06.94m	JN	Junction 3 : 100mm Diameter			0
07.27m	JD	Joint displaced medium	4_3		2
17.53m	SA	Survey abandoned			0

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Descriptive Report with Remarks and Observation Images

Pos	Code	Description	Image
00.00m	MH	Start node type, manhole MH01	
00.00m	WL	Water level: 0% Height/Diameter	
06.94m	JN	Junction at 3 o'clock: 100mm Diameter	
07.27m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 4_3
17.53m	SA	Survey abandoned Z - Survey Reached Point Of Interest	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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Inspection Report

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Site: Bridgeford Road Rochdale

Section 6

Client: Googlies Ltd	Location (Street Name): Bridgeford Road	City/Town/Village Rochdale	Cust Job Ref.	Surveyors Name: Shaun	Date: 20/08/2020
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Start Node Ref: MH01	Finish Node Ref: Z	Direction: D	Height/Dia: 100
Start Node Depth: 0	Finish Node Depth: 0	Use: S	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: VC	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	12.05	

Position	Code	Description	CD	Pic	Grade
00.00m	MH	Start node type, manhole			0
00.00m	WL	Water level 0%			0
00.51m	JD	Joint displaced medium	5_2		2
01.44m	JD	Joint displaced medium	5_3		2
09.79m	JN	Junction 3 : 100mm Diameter			0
12.05m	JN	Junction 9 : 100mm Diameter			0
12.05m	OB	Other obstacles 80%	5_6		3
12.05m	SA	Survey abandoned			0



Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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**NorthWest
DrainServices**

Inspection Report

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Descriptive Report with Remarks and Observation Images

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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**NorthWest
DrainServices**

Inspection Report

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Pos	Code	Description	Image
00.00m	MH	Start node type, manhole MH01	
00.00m	WL	Water level: 0% Height/Diameter	
00.51m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 5_2
01.44m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 5_3
09.79m	JN	Junction at 3 o'clock: 100mm Diameter	
12.05m	JN	Junction at 9 o'clock: 100mm Diameter	
12.05m	OB	Other obstacles: 80% Cross sectional area loss - Grade 3 Tin Can Wedged In Drain	Image Provided - Ref: 5_6
12.05m	SA	Survey abandoned Z	

Total grades for project

Grade 1 Defects	0	Grade 2 Defects	3	Grade 3 Defects	1	Grade 4 Defects	0	Grade 5 Defects	3
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