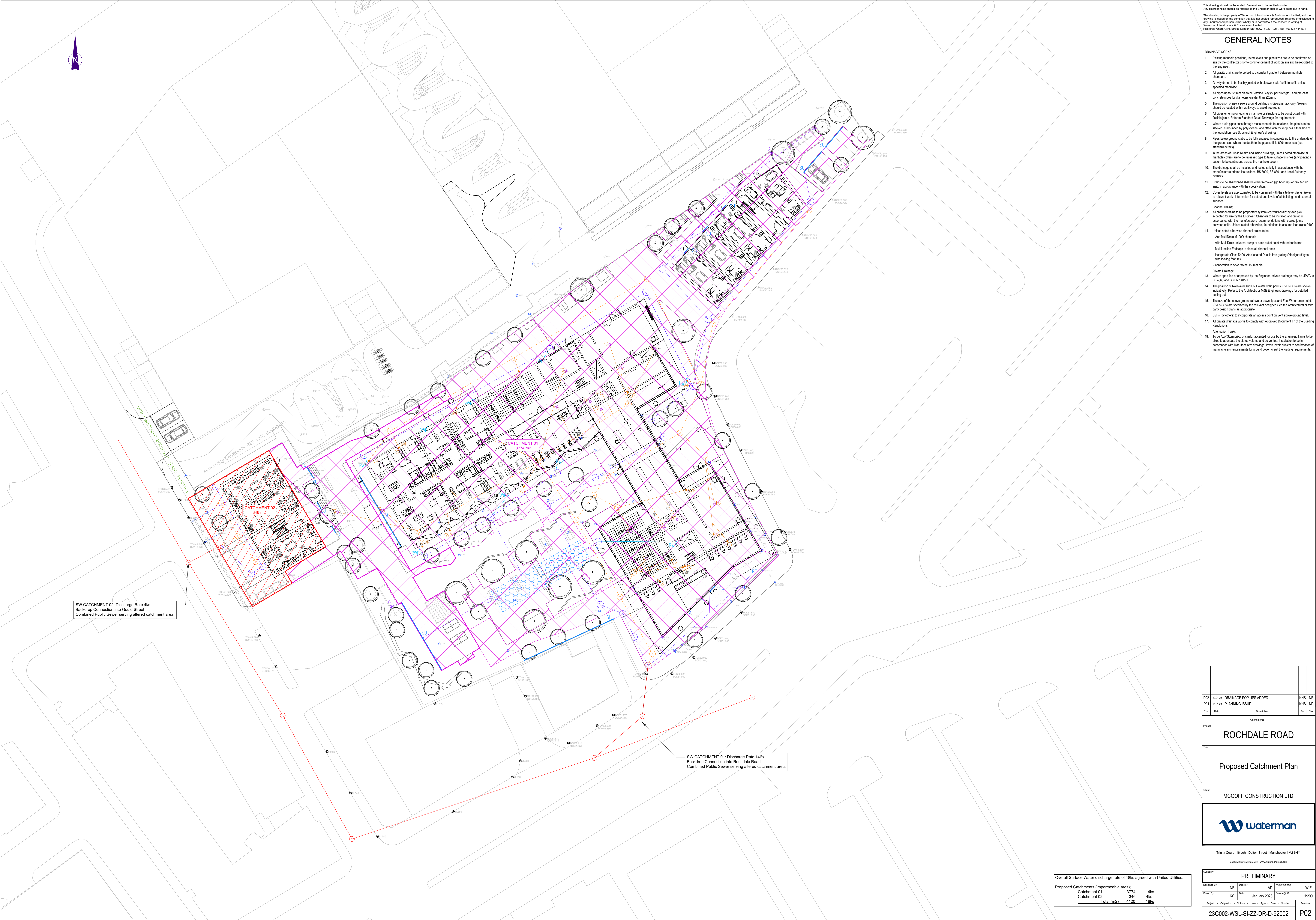




This drawing should not be scaled. Dimensions to be verified on site.
Any discrepancies should be referred to the Engineer prior to work being put in hand.
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GENERAL NOTES

- DRAINAGE WORKS**
- Existing manhole positions, invert levels and pipe sizes are to be confirmed on site by the contractor prior to commencement of work on site and be reported to the Engineer.
 - All gravity drains are to be laid to a constant gradient between manhole chambers.
 - Gravity drains to be flexibly jointed with pipework laid 'softly to soft' unless specified otherwise.
 - All pipes up to 225mm dia to be Vitrified Clay (super strength), and pre-cast concrete pipes for diameters greater than 225mm.
 - The position of new sewers around buildings is diagrammatic only. Sewers should be located within walkways to avoid tree roots.
 - All pipes entering or leaving a manhole or structure to be constructed with flexible joints. Refer to Standard Detail Drawings for requirements.
 - Where drain pipes pass through mass concrete foundations, the pipe is to be sleeved, surrounded by polyethylene, and filled with roller pipes either side of the foundation (see Structural Engineer's drawings).
 - Pipes below ground slabs to be fully encased in concrete up to the underside of the ground slab where the depth to the pipe soffit is 800mm or less (see standard details).
 - In the areas of Public Realm and inside buildings, unless noted otherwise all manhole covers are to be recessed type to take surface finishes (any jointing / pattern to be continuous across the manhole cover).
 - The drainage shall be installed and tested strictly in accordance with the manufacturers printed instructions, BS 8000, BS 6301 and Local Authority byelaws.
 - Drains to be abandoned shall be either removed (grubbed up) or grouted up in situ in accordance with the specification.
 - Cover levels are approximate / to be confirmed with the site level design (refer to relevant works information for setout and levels of all buildings and external surfaces).
- Channel Drains:**
- All channel drains to be proprietary system (eg 'Multi-drain' by Acc pte), accepted for use by the Engineer. Channels to be installed and tested in accordance with the manufacturers recommendations with sealed joints between units. Unless stated otherwise, foundations to assume load class D400.
 - Unless noted otherwise channel drains to be:
 - Acc MultiDrain M1000 channels
 - with MultiDrain universal sump at each outlet point with rotable trap
 - Multifunction Endcapps to close all channel ends
 - incorporate Class D400 'Aloc' coated Ductile Iron grating (Huegaurd type with locking feature)
 - connection to sewer to be 150mm dia.
- Private Drainage:**
- Where specified or approved by the Engineer, private drainage may be UPVC to BS 4060 and BS EN 1401-1.
 - The position of Rainwater and Foul Water drain points (S/Pu/Ss) are shown indicatively. Refer to the Architect's or M&E Engineers drawings for detailed setting out.
 - The size of the above ground rainwater downpipes and Foul Water drain points (S/Pu/Ss) are specified by the relevant Designer. See the Architectural or third party design plans as appropriate.
 - S/Pu (by others) to incorporate an access point on vent above ground level.
 - All private drainage works to comply with Approved Document 1F of the Building Regulations.
- Attenuation Tanks:**
- To be Acc 'Stemblock' or similar accepted for use by the Engineer. Tanks to be sized to attenuate the stated volume and be verified. Installation to be in accordance with Manufacturers drawings. Invert levels subject to confirmation of manufacturers requirements for ground cover to suit the loading requirements.

P12	20.01.23	DRAINAGE POP UPS ADDED	KHS	NF
P01	16.01.23	PLANNING ISSUE	KHS	NF
Rev	Date	Description	By	CHK

Project
ROCHDALE ROAD

Title
Proposed Catchment Plan

Client
MCGOFF CONSTRUCTION LTD


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mail@watermangroup.com www.watermangroup.com

Drawn by
PRELIMINARY

Designed by
NF AD WIE
KS January 2023 Scale @ A3 1:200

Project - Originator - Volume - Level - Type - Rate - Number Revision
23C002-WSL-SI-ZZ-DR-D-92002 **P02**

Overall Surface Water discharge rate of 18l/s agreed with United Utilities.

Proposed Catchments (impermeable area):		
Catchment 01	3774	14l/s
Catchment 02	346	4l/s
Total (m2)	4120	18l/s