

FLOW CONTROL UNIT TO RESTRICT DISCHARGE TO GREENFIELD Q-BAR RUN OFF RATES ALLOWING FOR ALL STORM EVENTS UPTO AND INCLUDING 100 YEAR EVENT + 45% CLIMATE CHANGE + 10% URBAN CREEP ALLOWANCE  
DESIGN HEAD: 1.0m  
DESIGN FLOW: 4.5l/s

ATTENUATION TANK  
206m<sup>2</sup> X 1.2m DEEP  
I.L = 118.858

CONNECTION TO EXISTING SURFACE DRAINAGE SHOWN AS PRELIMINARY ONLY. ASSUMED DRAINAGE BASED ON JLP SURVEYING DRAWING S18-396-2 AND UU MAPS. ALL EXISTING DRAINAGE INFORMATION T.B.C

MANHOLES AND PIPE POSITIONED OUT OF CARRIAGEWAY TO AVOID EXISTING WATER MAIN EASEMENT. WATER MAIN LEVELS AND EASEMENT TO BE CONFIRMED

APPROXIMATE POSITION OF EXISTING 500mm $\varnothing$  WATER MAIN

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DESIGN HEAD: 1.0m  
DESIGN FLOW: 2.5l/s

ATTENUATION TANK  
210M<sup>2</sup> X 0.8M DEEP  
I.L = 126.215

ATTENUATION TANK  
40m<sup>2</sup> X 0.8m DEEP  
I.L = 119.04m

#### NOTES

- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
  - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDANCE AND WHERE APPLICABLE UNITED UTILITIES DETAILS
  - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPATABLE HIGHWAYS SHALL BE 150mm
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
  - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
  - ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
  - ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
  - WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPATABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH-PERFORMANCE PIPE ASSOCIATION.
  - A CLASS 5 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1m OF HIGHWAY SHALL, AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4.
  - DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

|           | FOUL    | S.W.     |
|-----------|---------|----------|
| HEAD RUN  | 1 IN 40 | 1 IN 60  |
| ELSEWHERE | 1 IN 80 | 1 IN 100 |
  - ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED UPVC UNLESS NOTED OTHERWISE
  - MINIMUM COVER TO DRAINAGE SOFFIT LEVEL;

|  | LANDSCAPING | TRAFFICKED AREAS | HIGHWAYS |
|--|-------------|------------------|----------|
|  | 0.600m      | 0.900m           | 1.200m   |
- CLASS 'S' BEDDING AND SURROUND MUST BE USED WHERE MINIMUM COVER IS ACHIEVED.
  - WHERE MINIMUM COVER IS NOT ACHIEVED CLASS 'Z' BEDDING AND SURROUND (CONCRETE ENCASEMENT) IS TO BE USED.

#### KEY:

- SURFACE WATER SEWER
- SURFACE WATER FLOW CONTROL
- FOUL WATER SEWER
- RISING MAIN
- EXISTING SEWER
- EXISTING 5M WATER MAIN EASEMENT
- SITE BOUNDARY
- DEVELOPMENT BOUNDARY

DRAWING SUBMITTED FOR INFORMATION PURPOSES ONLY

|     |          |    |                                          |
|-----|----------|----|------------------------------------------|
| PO4 | 27.04.26 | PB | Client comments                          |
| PO3 | 05.03.26 | KF | Revised Site Boundary                    |
| PO2 | 03.03.26 | KF | Revised to suit latest Architects layout |
| PO1 | 15.09.25 | KF | Preliminary Issue                        |
| Rev | Date     | By | Description                              |

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Client  
BMC Rochdale Limited

Project  
Royle Road, Rochdale

Title  
Drainage Strategy - Sheet 1

| Status                   | Suitability Description For Information | Structural Stage | Date        |
|--------------------------|-----------------------------------------|------------------|-------------|
|                          |                                         |                  | 15.09.25    |
| Designed By              | Drawn By                                | Scale @ A1       | Project No. |
| KF                       | KF                                      | 1:250            | 2885        |
| Sheet No.                | Revision                                |                  |             |
| 2885-SCE-00-00-DR-C-0001 | PO4                                     |                  |             |

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DETAILS OF EXISTING WATER MAIN AND ALL EXISTING DRAINAGE TO BE CONFIRMED PRIOR TO WORKS ON SITE. DRAINAGE LAYOUT HAS BEEN SHOWN FOR INFORMATION PURPOSES ONLY AND IS SUBJECT TO CHANGE UPON RECEIVAL OF SUPPORTING INFORMATION