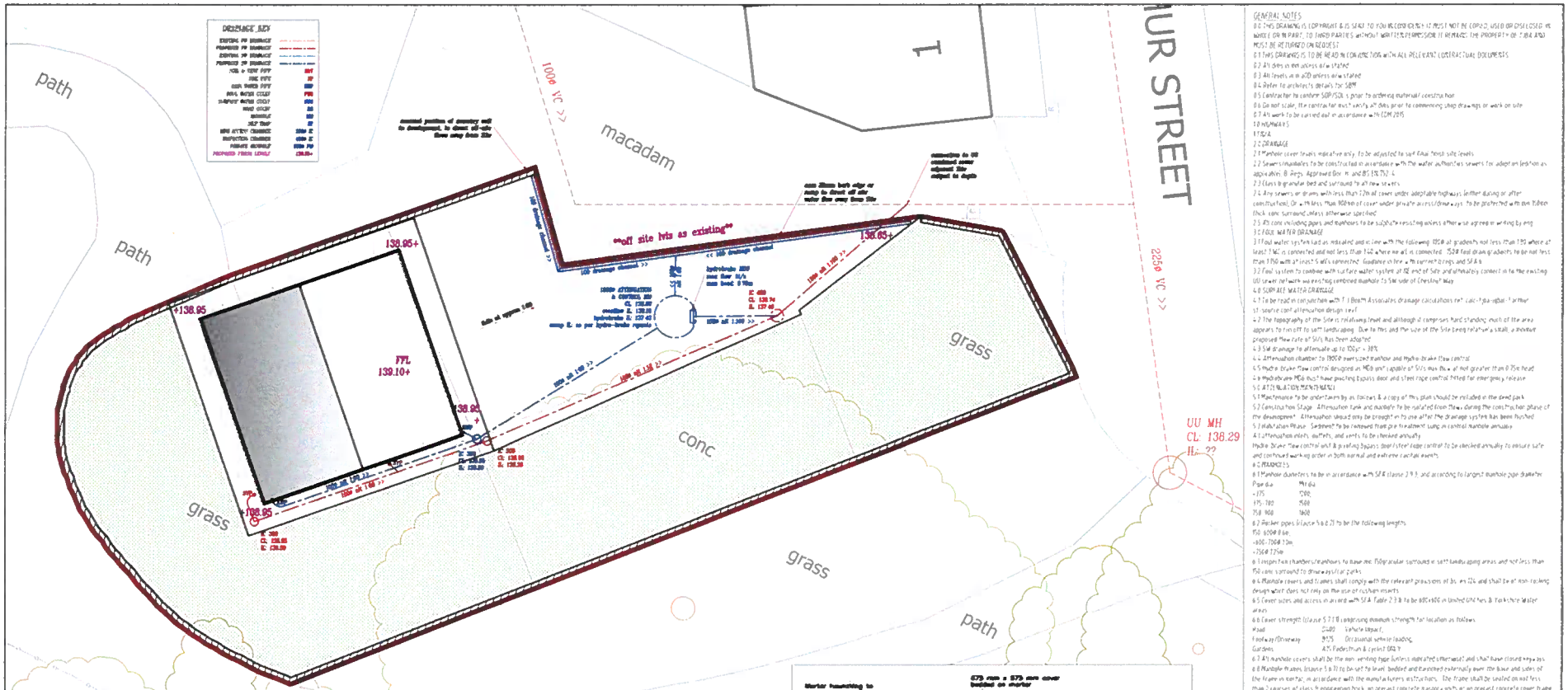


GENERAL NOTES

0.0 THIS DRAWING IS COPYRIGHT & IS SENT TO YOU IN CONFIDENCE IT MUST NOT BE COPIED, USED OR DISCLOSED IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT WRITTEN PERMISSION IF REQUESTED THE PROPERTY OF T J BTH ASS MUST BE RETURNED ON REQUEST

0.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTUAL DOCUMENTS

0.2 All dims in mm unless o/w stated

0.3 All levels in mAOD unless o/w stated

0.4 Refer to architects details for SDM

0.5 Contractor to confirm SOIP/SOL's prior to ordering materials/ construction

0.6 Do not scale, the contractor must verify all dims prior to commencing shop drawings or work on site

0.7 All work to be carried out in accordance with CDM 2015

1.0 HIGHWAYS

1.1 S.A.

2.0 DRAINAGE

2.1 Manhole cover levels indicative only, to be adjusted to suit final finish site levels

2.2 Sewers/manholes to be constructed in accordance with the water authorities sewers for adoption (as appropriate), & Regs. Approved Doc H and BS EN 752-4

2.3 Class B granular bed and surround to all new sewers

2.4 Any sewers or drains with less than 1.2m of cover under adoptable highways (either during or after construction), OR with less than 900mm of cover under private accesses/driveways to be protected with 150mm thick conc surround, unless otherwise specified

2.5 All conc including pipes and manholes to be sulphate resisting unless other wise agreed in writing by eng

3.0 FOUL WATER DRAINAGE

3.1 Foul water system laid as indicated and in line with the following: 150ø at gradients not less than 1:80 where at least 1 WC is connected and not less than 1:40 where no wc is connected. 225ø foul drain gradients to be not less than 1:150 with at least 5 wc's connected. Guidance in line with current Regs and Sf&A

3.2 Foul system to combine with surface water system at IC and of site and ultimately connect in to the existing UU sewer network via existing combined manhole to SW side of Chesham Way

4.0 SURFACE WATER DRAINAGE

4.1 To be read in conjuction with T J Booth Associates drainage calculations ref: calc-iqbal-1 arthur st source cont attenuation design level

4.2 The topography of the Site is relatively level and although it comprises hard standing, much of the area appears to run off to soft landscaping. Due to this and the size of the Site being relatively small, a greenfield proposed flow rate of 5l/s has been adopted.

4.3 SW drainage to attenuate up to 100yr + 30%

4.4 Attenuation chamber to 1800ø oversized manhole and Hydro-Brake flow control

4.5 Hydro Brake flow control designed as MD8 unit capable of 5l/s max flow at not greater than 0.75m head

4.6 Hydrobrake MD8 must have grating bypass door and steel rope control fitted for emergency release

5.0 ATTENUATION MAINTENANCE

5.1 Maintenance to be undertaken by as follows & a copy of this plan should be included in the deed pack

5.2 Construction Stage Attenuation tank and manhole to be isolated from flow during the construction phase of the development. Attenuation should only be brought in to use after the drainage system has been flushed

5.3 Habitation Phase Sediment to be removed from pre treatment using in control manhole annually

5.4 Attenuation inlets, outlets, and vents to be checked annually

Hydro Brake flow control unit & grating bypass door/steel rope control to be checked annually to ensure safe and continued working order in both normal and extreme rainfall events

6.0 TRAINAGE

6.1 Manhole diameters to be in accordance with SFA clause 2.9.1, and according to largest manhole pipe diameter

Pipe dia	Manhole
<175	1200
175-700	1500
750-900	1800

6.2 Perforated pipes (clause 5.6.2) to be the following lengths

150 600ø Perf.

>600-750ø 12m

>750ø 125m

6.3 Irrigation chambers/manholes to have min 750gr granular surrounds at soft landscaping areas and not less than 150 conc surround to driveways/car parks

6.4 Manhole covers and frames shall comply with the relevant provisions of BS en 124 and shall be of non-rocking design where does not rely on the use of rubber inserts

6.5 Cover sizes and access in accord with SFA Table 2.3 (a to be 600x600 in limited circ'ns & 750x450 in larger areas

6.6 Cover strength (clause 5.7.1) (approximate strength for location as follows

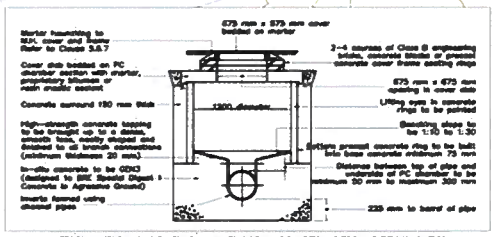
Road	D400 Vehicle Impact
Footway/Driveway	B125 Occasional vehicular loading
Gardens	A15 Pedestrian & cyclist only

6.7 All manhole covers shall be the non-rocking type (unless indicated otherwise) and shall have closed top trays

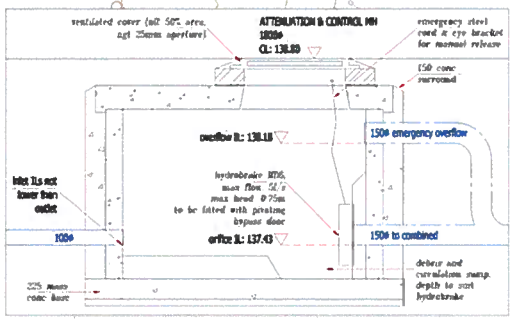
6.8 Manhole frames (clause 5.8.1) to be set to level, bedded and haunched externally over the base and sides of the frame in mortar, in accordance with the manufacturers instructions. The frame shall be sealed on not less than 2 courses of class B engineering brick on precast concrete ring/cone with, or on precast concrete cover frame sealing ring, to regulate the distance between the top of the cover and the top rung to no greater than 450mm. A mortar fillet shall be provided where the concrete to an opening in a slab are chamfered and the bedding is not flush with the edges of the opening

7.0 GENERAL NOTES

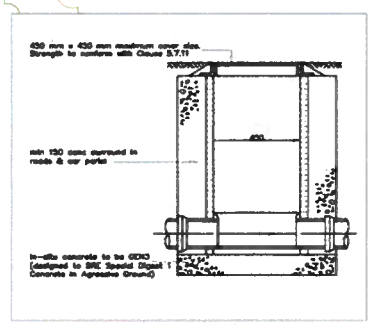
7.1 As per Architect's details



ATTENUATION & CONTROL MH TYPICAL CONSTRUCTION DETAIL (NTS)



ATTENUATION & CONTROL MANHOLE GENERAL ARRANGEMENT (1:25)



300ø & 450ø IC TYPICAL DETAIL (NTS)



Location Plan 1:1250

PLANNING

AMENDMENTS/ ISSUES			
p3	updated per ref. to LA comments	sept 2018	GS
p2	updated	oct 2018	GS
REVISION	REASON CHANGE	DATE	BY

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Iqbal / 1 Arthur Street, Rochdale

PROPOSED DRAINAGE PLAN & DETAILS

FILE NAME: dwg-tjbe-iqbal-1 arthur st-051018.dwg

SCALE: 1 : 100 & as indicated @ A2