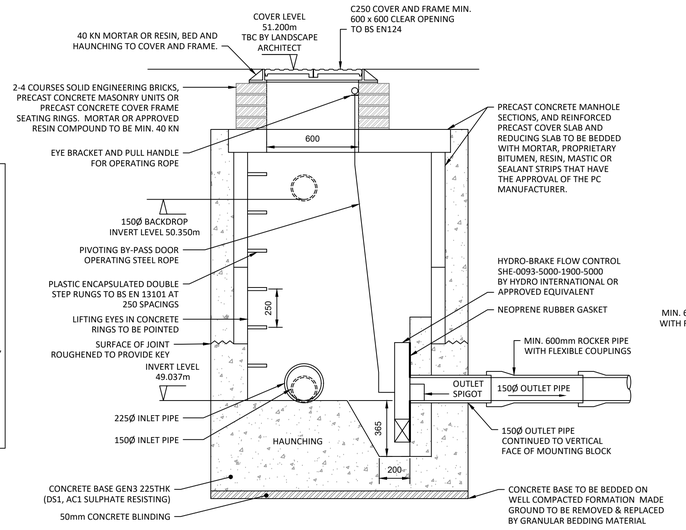
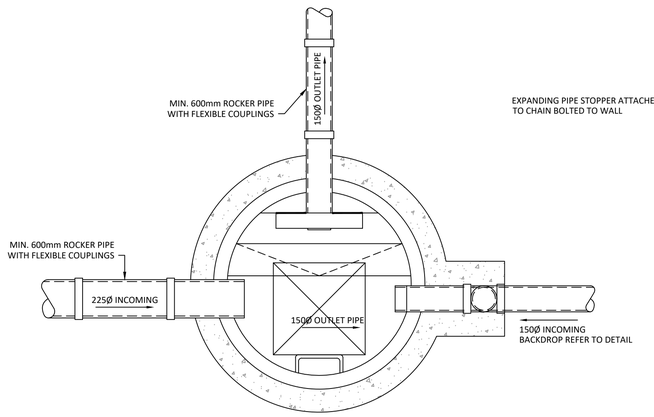
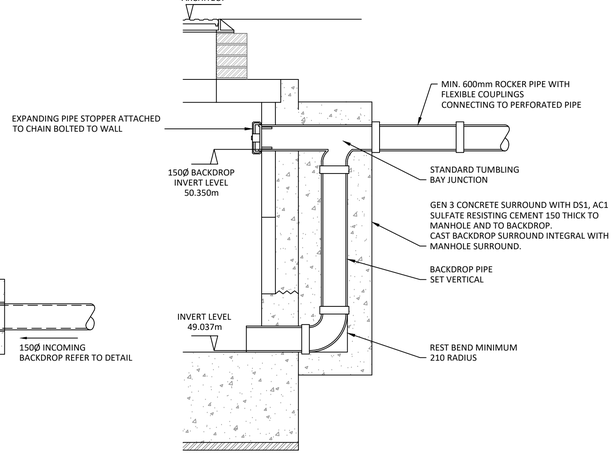
FLOW CONTROL MANHOLE NOTES

1. ALL DIMENSION ARE IN MILLIMETERS
2. PRECAST CONCRETE UNITS TO BE BS5911 PART 200 AND TO BE CONSTRUCTED WITH A MINIMUM CLASS 3 SULPHATE RESISTING CEMENT
3. ALL INSITU CONCRETE TO BE GEN3 SULPHATE RESISTING CONCRETE
4. MATERIALS FOR JOINTING MANHOLE RINGS TO BE A RUBBER BITUMEN COMPOUND OF APPROVED MANUFACTURER 'TOKSTRIP' OR SIMILAR.
5. ALL BRICKWORK TO BE CLASS B ENGINEERING -2 COURSES MIN:4 COURSES MAX; 225mm THICK
6. 20mm THICK GRANOLITHIC CONCRETE BENCHING TO BE BROUGHT UP TO A DENSE SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS. WHERE BENCHING IS LESS THAN 450mm WIDE, SLOPE TO BE 1:10; MORE THAN 450mm, 1:30
7. PIPES ENTERING MANHOLES TO HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH THE PIPE IS BUILT IN ORDER TO FACILITATE MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPELINES, BEDDING, LAYING AND JOINTING OF PIPES AND BACKFILING OF TRENCHES SHALL BE IN ACCORDANCE WITH THE W.S.A.SPEC 'SEWERS FOR ADOPTION' - 7TH EDITION TOGETHER WITH ANY LOCAL AUTHORITY REQUIREMENTS.



FLOW CONTROL MANHOLE S5.0 DETAIL





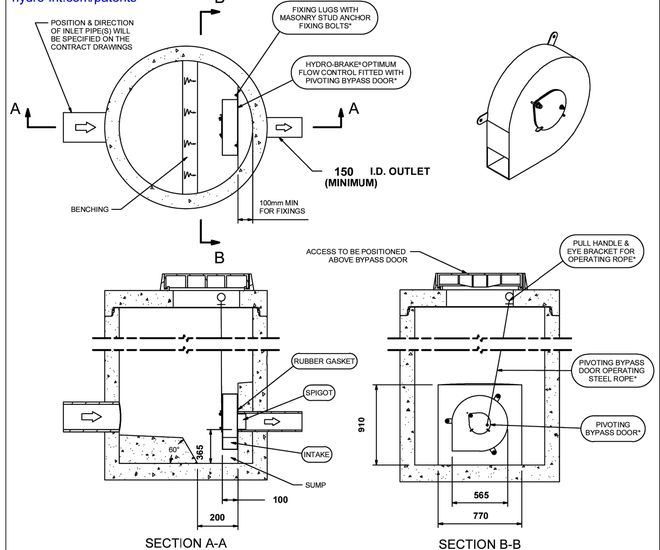
BACK DROP DETAIL

Technical Specification		
Control Point	Head (m)	Flow (l/s)
Primary Design	1.900	5.000
Flush-Flo™	0.406	4.270
Kick-Flo®	0.830	3.410
Mean Flow		4.011

Hydro-Brake® Optimum Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting by-pass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Beed blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet
- Indicative Weight: 20 kg

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SECTION A-A SECTION B-B

IMPORTANT: LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE !

The head/flow characteristics of this SHE-0093-5000-1900-5000 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

DATE	12/03/2024 10:16
SITE	Ancoats Green
DESIGNER	Zac Gannon
REF	1826-01

SHE-0093-5000-1900-5000
Hydro-Brake® Optimum

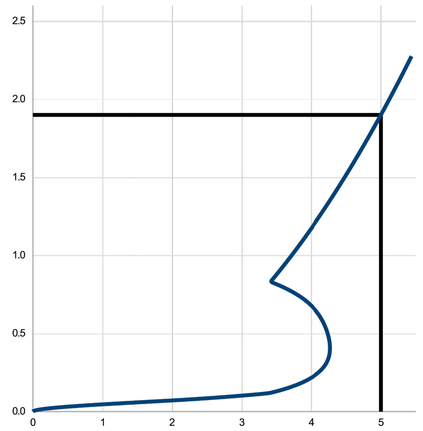
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zac.gannon@civicengineers.com

Technical Specification		
Control Point	Head (m)	Flow (l/s)
Primary Design	1.900	5.000
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Kick-Flo®	0.830	3.410
Mean Flow		4.011

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Head (m)	Flow (l/s)
0.000	0.000
0.066	1.760
0.131	3.508
0.197	3.915
0.262	4.132
0.328	4.236
0.393	4.269
0.459	4.259
0.524	4.219
0.590	4.151
0.655	4.047
0.721	3.887
0.786	3.643
0.852	3.450
0.917	3.570
0.983	3.685
1.048	3.796
1.114	3.903
1.179	4.008
1.245	4.109
1.310	4.207
1.376	4.304
1.441	4.397
1.507	4.489
1.572	4.578
1.638	4.666
1.703	4.752
1.769	4.836
1.834	4.919
1.900	5.000



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SHE-0093-5000-1900-5000
Hydro-Brake® Optimum

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STANDARD NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND THE SPECIFICATIONS.
2. THIS DRAWING SHOULD NOT BE SCALED.
3. ALL DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE.
4. ALL DISCREPANCIES SHOULD BE REPORTED TO C.A./E.A. PRIOR TO THE COMMENCEMENT OF WORKS.

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FINAL CONSTRUCTION
THIS DRAWING HAS BEEN ISSUED AS A RECORD OF DESIGN INFORMATION PROVIDED FOR CONSTRUCTION. IT SHOULD NOT BE RELIED UPON AS AN ACCURATE AS-BUILT RECORD OF COMPLETED WORKS

DATE	REV	DESCRIPTION	DRAWN	CHKD
19.06.25	C03	FINAL CONSTRUCTION ISSUE	TC	CK
12.03.24	C02	UPDATED TO SUIT LATEST DRAINAGE DESIGN	ZG	TC
12.01.24	C01	STAGE 5 ISSUE	ZG	CK

Civic Engineers
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LEEDS 1 Saw Mill Street, Water Lane, Leeds, LS11 5WE. Tel: 0113 2025 130
GLASGOW 35 Virginia Street, Glasgow, G1 1TN. Tel: 0141 370 1829
www.civicengineers.com

PROJECT
POLAND STREET ZONE

TITLE
ANCOATS GREEN
HYDROBRAKE DETAIL

DRAWING STATUS	STATUS CODE
FINAL CONSTRUCTION	-

CE PROJECT No.	SCALE @ A1	DATE CREATED	DRAWN	CHECKED
1826-01	1:20	JAN 24	ZG	CK

DRAWING No. 1826-01-CIV-XX-XX-D-C-31004 REV C03

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