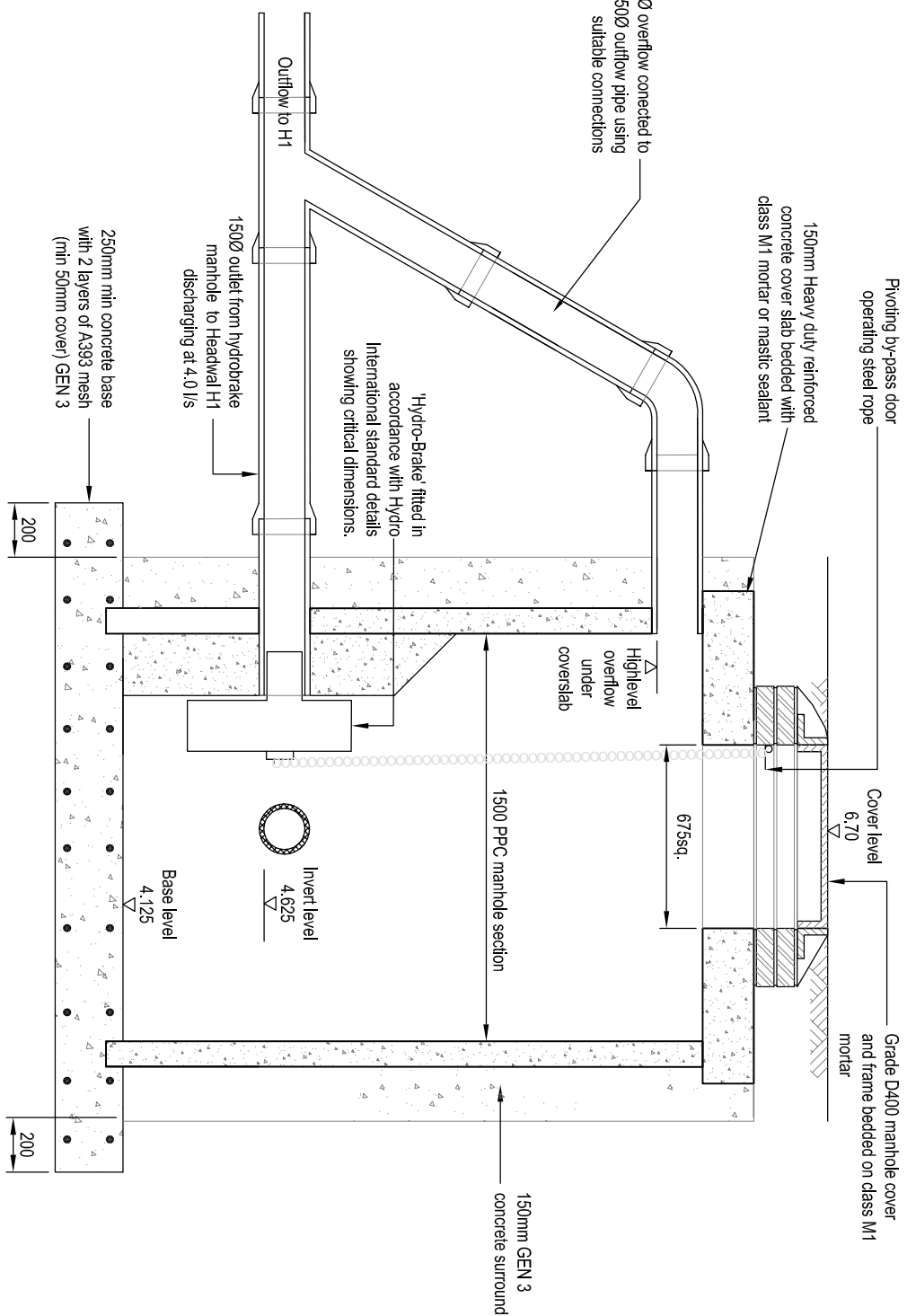
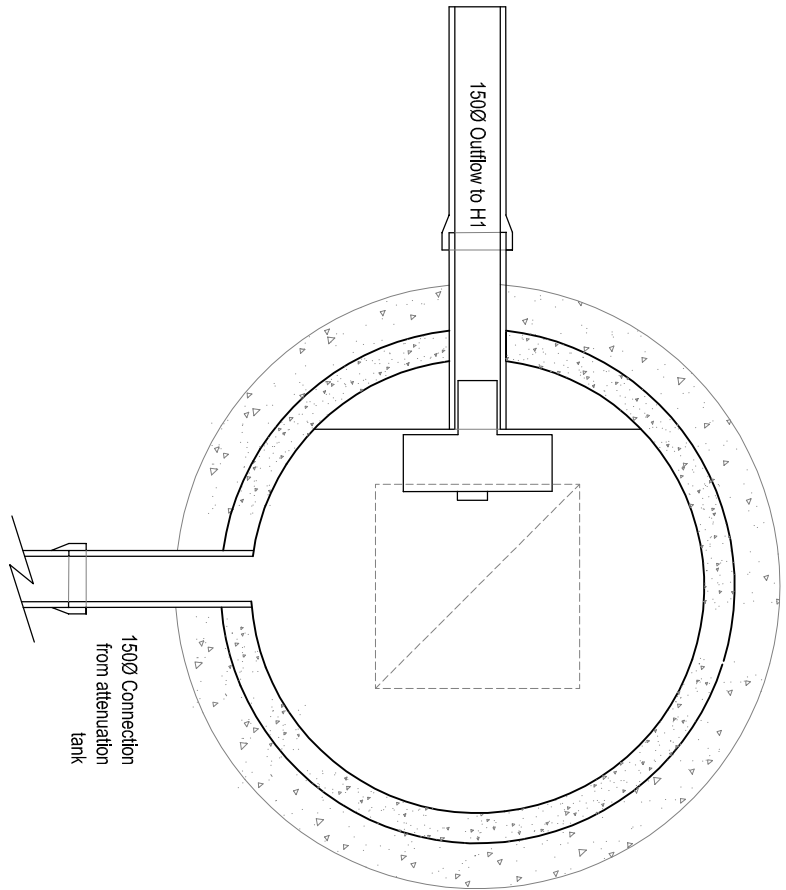




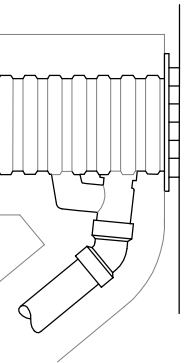
Section Through Hydrobrake Chamber HB1



Hydro-Brake Manhole Details

Plan on Hydrobrake Chamber HB1

300mm dia x 600mm deep polypropylene trapped yard gully with grade B 300mm x 300mm cast iron hinged grating and frame to BS EN124 and 150mm thickness grade GEN3 concrete surround as shown.



'ULTRA-RB' Yard Gully

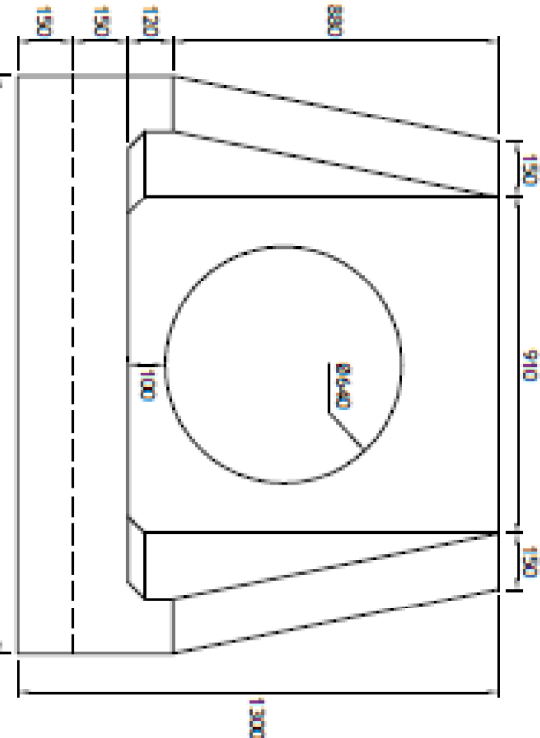
Class B Engineering Bricks bedded on Class 1 cement mortar. 2 courses min. 5 courses max.

Bend to suit angle of connection

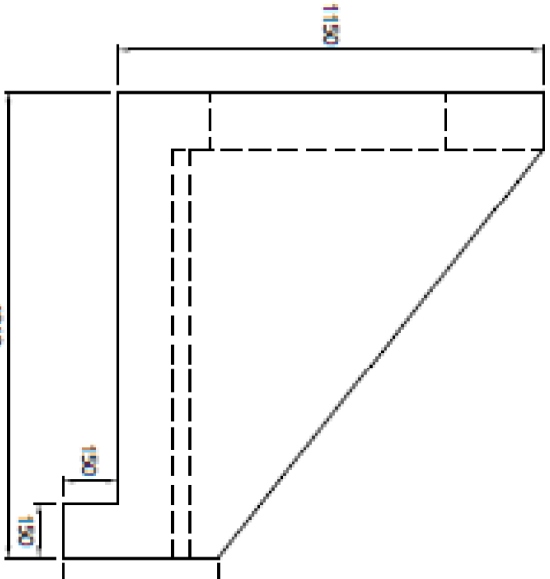
150mm thick grade GEN 3 concrete surround

Gully grating & frame Class D400 to BS EN 124, non rock. Clear opening 440mm x 400mm

Gully Details

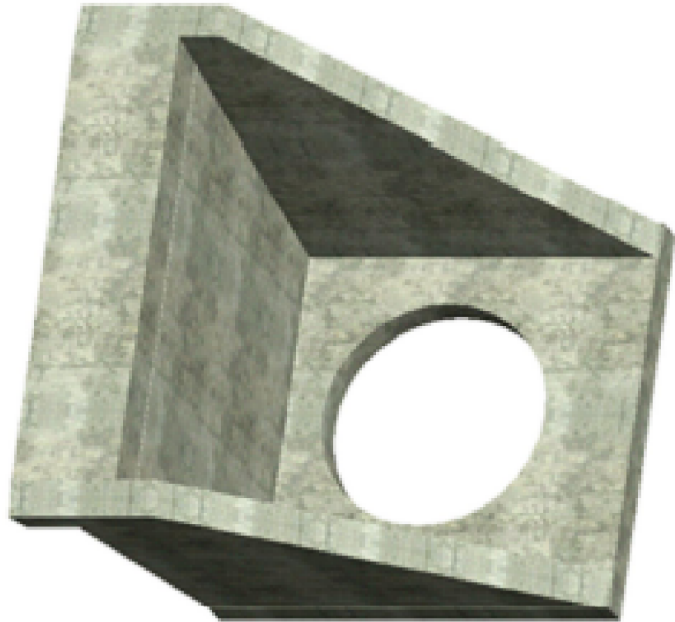


FRONT VIEW



SIDE ELEVATION VIEW

PLAN VIEW



GENERAL INFORMATION			
1	Project Name	2	Client
3	Design Stage	4	Design Date
5	Design By	6	Check By
7	Scale	8	Revision
9	Drawn By	10	Drawn Date
11	Drawn No.	12	Drawn Size
13	Drawn No.	14	Drawn No.
15	Drawn No.	16	Drawn No.
17	Drawn No.	18	Drawn No.
19	Drawn No.	20	Drawn No.
21	Drawn No.	22	Drawn No.
23	Drawn No.	24	Drawn No.
25	Drawn No.	26	Drawn No.
27	Drawn No.	28	Drawn No.
29	Drawn No.	30	Drawn No.
31	Drawn No.	32	Drawn No.
33	Drawn No.	34	Drawn No.
35	Drawn No.	36	Drawn No.
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81	Drawn No.	82	Drawn No.
83	Drawn No.	84	Drawn No.
85	Drawn No.	86	Drawn No.
87	Drawn No.	88	Drawn No.
89	Drawn No.	90	Drawn No.
91	Drawn No.	92	Drawn No.
93	Drawn No.	94	Drawn No.
95	Drawn No.	96	Drawn No.
97	Drawn No.	98	Drawn No.
99	Drawn No.	100	Drawn No.

Headwall Details: NTS Tracey Concrete Standard Small Hheadwall Detail Drg No SMH_150_450

Back fill with non angular as dug material. Selected fill material should be compacted to 90% maximum dry density. a minimum of 300mm working space will be required around units for compacting.

Proprietary inspection access sited at 25 metre intervals

SURFACE COURSE - 20mm of AC 10mm close surf 100/50 PSV 55 to (EN 13108-1)

BINDER COURSE - 60mm of AC 20 dense bin 0/60 (EN 13108-1)

SUB-BASE - 225mm of Type 1 to Clause 803 MCDHW

1000x500x400 Aquacell 'Prime' cellular infiltration units.

Access track

Suitable 300g woven permeable geotextile suitably lapped to manufacturers guide lines

Aquacell Units should be laid in 'brick bonded' formation and pegged together using proprietary pegs.

Aquacell Units size 1.0m (L) x 0.5m (W) x 0.4m (D)

150mmØ overflow pipe connecting Aquacell systems B-C-D

Access Track Details Aquacell Drainage Details

- Notes:**
- All dimensions are in mm unless otherwise stated
 - Concrete: Grade C40/50 w/c Ratio 0.35, 400kg/m³ Cement UNO. Suitable reinforcing concrete capable of resisting Class 3 sulphate attack. Cover min 35mm, max 45mm. All Ref: wet cast mix.
 - Exposure Class: XF4
 - Handling: 4 nos. RCC4 hollow shaped end lifting inserts per unit located in base where indicated. maximum angle 30° to the vertical. Recommended lifter RCC4 (liftin loop/P)
 - Reinforcement: Grade strength of reinforcing steel to BS5006, conforming to BS4449:2005. Scheduling, dimensioning, bending and cutting to BS6666
 - Course design to EC2, BS EN 1992-1-1:2004