

Node TANK_OUT Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	88.430
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	430.5	0.0	0.400	430.5	0.0	0.401	0.0	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	CHANNEL DRAIN	13	87.798	0.118	3.1	0.1757	0.0000	OK
15 minute winter	6.000:50%	13	87.798	0.120	5.2	0.7646	0.0000	OK
15 minute winter	EX_CHANNELDRAIN	13	87.797	0.122	5.1	0.1804	0.0000	OK
30 minute winter	6.001:50%	21	87.791	0.129	12.2	1.0675	0.0000	OK
15 minute winter	12	12	87.300	0.100	19.0	0.3570	0.0000	OK
15 minute winter	11	12	87.144	0.104	25.4	0.2151	0.0000	OK
15 minute winter	10	10	88.169	0.069	11.4	0.2592	0.0000	OK
15 minute winter	9	11	87.741	0.091	18.0	0.1818	0.0000	OK
15 minute winter	8	12	86.661	0.146	46.1	0.2739	0.0000	OK
15 minute winter	18	10	87.943	0.043	3.5	0.0835	0.0000	OK
15 minute winter	17	10	87.617	0.097	29.1	0.4724	0.0000	OK
15 minute winter	TANK_IN	10	88.535	0.085	13.8	0.4550	0.0000	OK
120 minute winter	TANK_OUT	82	88.467	0.057	11.2	15.4747	0.0000	OK
120 minute winter	15B	108	88.463	0.283	5.8	0.4997	0.0000	OK
120 minute winter	15A	108	88.462	0.512	5.1	0.9055	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	CHANNEL DRAIN	6.000	6.000:50%	2.2	0.114	0.055	0.5159	
15 minute winter	CHANNEL DRAIN	6.000	EX_CHANNELDRAIN	3.4	0.103	0.086	0.5293	
15 minute winter	EX_CHANNELDRAIN	6.001	6.001:50%	5.1	0.183	0.254	1.0124	
15 minute winter	EX_CHANNELDRAIN	6.001	12	10.7	0.499	0.535	0.7855	
15 minute winter	12	1.000	11	18.9	0.895	0.230	0.6145	
15 minute winter	11	1.001	8	24.9	1.170	0.250	1.1970	
15 minute winter	10	2.000	9	11.0	0.902	0.207	0.5419	
15 minute winter	9	2.001	8	17.4	1.175	0.335	0.7990	
15 minute winter	8	1.002	7	46.2	1.269	0.259	0.2740	
15 minute winter	18	3.000	17	3.4	0.820	0.174	0.0795	
15 minute winter	17	3.001	13	28.6	1.517	0.203	0.3347	
15 minute winter	TANK_IN	5.000	TANK_OUT	13.6	1.405	0.150	0.0617	
120 minute winter	TANK_OUT	5.001	15B	5.8	0.613	0.079	2.0024	
120 minute winter	15B	5.002	15A	5.1	0.349	0.070	3.6556	
120 minute winter	15A	5.003	15	3.0	0.522	0.039	0.0600	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	15	10	87.823	0.073	19.0	0.3364	0.0000	OK
15 minute winter	14	11	87.482	0.102	38.9	0.3883	0.0000	OK
15 minute winter	13	11	87.095	0.155	71.3	0.3057	0.0000	OK
15 minute winter	7	11	86.456	0.231	117.7	0.4073	0.0000	OK
15 minute winter	S4	11	86.351	0.206	117.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	15	4.000	14	18.5	0.863	0.058	0.8280	
15 minute winter	14	4.001	13	38.1	1.025	0.117	1.6214	
15 minute winter	13	3.002	7	72.0	1.612	0.211	0.6048	
15 minute winter	7	1.003	S4	117.6	1.384	0.340	1.3345	75.4

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	CHANNEL DRAIN	13	87.941	0.261	11.4	0.3888	0.0000	OK
15 minute winter	6.000:50%	13	87.941	0.263	20.6	3.6750	0.0000	OK
15 minute winter	EX_CHANNELDRAIN	13	87.940	0.265	20.6	0.3909	0.0000	OK
15 minute winter	6.001:50%	13	87.928	0.266	54.9	4.5431	0.0000	OK
15 minute winter	12	12	87.590	0.390	78.6	1.3887	0.0000	SURCHARGED
15 minute winter	11	12	87.423	0.383	97.5	0.7951	0.0000	SURCHARGED
15 minute winter	10	11	88.257	0.157	42.7	0.5879	0.0000	OK
15 minute winter	9	12	88.041	0.391	68.0	0.7797	0.0000	SURCHARGED
15 minute winter	8	11	86.952	0.437	171.4	0.8203	0.0000	SURCHARGED
15 minute winter	18	10	87.993	0.093	13.1	0.1805	0.0000	OK
15 minute winter	17	10	87.743	0.223	108.9	1.0866	0.0000	OK
15 minute winter	TANK_IN	10	88.619	0.169	51.5	0.9033	0.0000	OK
240 minute winter	TANK_OUT	232	88.612	0.202	20.7	75.5691	0.0000	OK
240 minute winter	15B	232	88.611	0.431	9.6	0.7624	0.0000	SURCHARGED
240 minute winter	15A	232	88.611	0.661	5.2	1.1682	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	CHANNEL DRAIN	6.000	6.000:50%	9.2	0.150	0.233	1.4761	
15 minute winter	CHANNEL DRAIN	6.000	EX_CHANNELDRAIN	15.4	0.173	0.389	1.4901	
15 minute winter	EX_CHANNELDRAIN	6.001	6.001:50%	21.0	0.327	1.051	2.3898	
15 minute winter	EX_CHANNELDRAIN	6.001	12	45.5	0.841	2.276	1.9152	
15 minute winter	12	1.000	11	77.2	1.198	0.941	2.0517	
15 minute winter	11	1.001	8	97.5	1.536	0.982	3.9676	
15 minute winter	10	2.000	9	42.0	1.194	0.787	1.4816	
15 minute winter	9	2.001	8	60.3	1.518	1.159	2.0788	
15 minute winter	8	1.002	7	172.3	1.706	0.964	0.8289	
15 minute winter	18	3.000	17	12.7	1.145	0.656	0.2148	
15 minute winter	17	3.001	13	107.2	2.056	0.763	0.9256	
15 minute winter	TANK_IN	5.000	TANK_OUT	51.3	1.988	0.566	0.1650	
240 minute winter	TANK_OUT	5.001	15B	9.6	0.620	0.131	3.1708	
240 minute winter	15B	5.002	15A	5.2	0.354	0.070	3.6970	
240 minute winter	15A	5.003	15	3.0	0.522	0.039	0.0600	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.90%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	15	10	87.896	0.146	71.1	0.6750	0.0000	OK
15 minute winter	14	10	87.589	0.209	146.0	0.7937	0.0000	OK
15 minute winter	13	11	87.299	0.359	270.9	0.7108	0.0000	OK
15 minute winter	7	11	86.842	0.617	437.4	1.0896	0.0000	SURCHARGED
15 minute winter	S4	11	86.589	0.444	437.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	15	4.000	14	70.0	1.221	0.220	2.2215	
15 minute winter	14	4.001	13	144.4	1.377	0.442	4.4620	
15 minute winter	13	3.002	7	270.9	2.190	0.795	1.6660	
15 minute winter	7	1.003	S4	437.7	2.042	1.268	3.2248	275.8

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	CHANNEL DRAIN	14	88.013	0.333	14.3	0.4958	0.0000	OK
15 minute winter	6.000:50%	14	88.012	0.335	26.3	5.9417	0.0000	OK
15 minute winter	EX_CHANNELDRAIN	13	88.010	0.335	28.5	0.4944	0.0000	FLOOD RISK
15 minute winter	6.001:50%	12	87.992	0.329	67.3	6.9902	0.0000	SURCHARGED
15 minute winter	12	12	87.935	0.735	93.4	2.6187	0.0000	FLOOD RISK
15 minute winter	11	11	87.760	0.720	109.1	1.4936	0.0000	SURCHARGED
15 minute winter	10	12	88.695	0.595	53.6	2.2308	0.0000	SURCHARGED
15 minute winter	9	12	88.355	0.704	75.7	1.4062	0.0000	SURCHARGED
15 minute winter	8	11	87.141	0.626	199.0	1.1757	0.0000	SURCHARGED
15 minute winter	18	10	88.011	0.111	16.4	0.2139	0.0000	OK
15 minute winter	17	10	87.800	0.280	136.9	1.3621	0.0000	OK
240 minute winter	TANK_IN	236	88.678	0.228	12.8	1.2210	0.0000	OK
240 minute winter	TANK_OUT	236	88.678	0.268	25.4	102.9752	0.0000	OK
240 minute winter	15B	236	88.678	0.498	9.7	0.8793	0.0000	SURCHARGED
240 minute winter	15A	236	88.677	0.727	4.9	1.2852	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	CHANNEL DRAIN	6.000	6.000:50%	11.6	0.165	0.291	1.9423	
15 minute winter	CHANNEL DRAIN	6.000	EX_CHANNELDRAIN	24.6	0.217	0.620	1.9496	
15 minute winter	EX_CHANNELDRAIN	6.001	6.001:50%	31.4	0.446	1.570	2.5527	
15 minute winter	EX_CHANNELDRAIN	6.001	12	58.5	0.928	2.928	2.5293	
15 minute winter	12	1.000	11	90.7	1.288	1.104	2.0517	
15 minute winter	11	1.001	8	111.1	1.615	1.120	3.9676	
15 minute winter	10	2.000	9	44.9	1.204	0.842	1.7006	
15 minute winter	9	2.001	8	69.7	1.754	1.340	2.1095	
15 minute winter	8	1.002	7	200.2	1.815	1.120	0.8289	
15 minute winter	18	3.000	17	16.1	1.167	0.830	0.2902	
15 minute winter	17	3.001	13	133.2	2.102	0.948	1.1177	
240 minute winter	TANK_IN	5.000	TANK_OUT	12.6	0.705	0.139	0.3715	
240 minute winter	TANK_OUT	5.001	15B	9.7	0.598	0.133	3.5913	
240 minute winter	15B	5.002	15A	4.9	0.355	0.067	3.6970	
240 minute winter	15A	5.003	15	3.0	0.522	0.039	0.0600	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.86%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	15	10	87.917	0.167	89.4	0.7745	0.0000	OK
15 minute winter	14	10	87.615	0.235	183.4	0.8927	0.0000	OK
15 minute winter	13	11	87.440	0.500	338.6	0.9883	0.0000	SURCHARGED
15 minute winter	7	11	86.983	0.758	532.5	1.3400	0.0000	SURCHARGED
15 minute winter	S4	11	86.622	0.477	534.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	15	4.000	14	88.0	1.288	0.277	2.6197	
15 minute winter	14	4.001	13	181.6	1.407	0.556	5.2233	
15 minute winter	13	3.002	7	335.1	2.262	0.984	1.9689	
15 minute winter	7	1.003	S4	534.9	2.477	1.549	3.3140	336.2

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	CHANNEL DRAIN	13	88.119	0.439	20.8	0.6543	0.0000	OK
15 minute winter	6.000:50%	13	88.118	0.441	48.9	10.2843	0.0000	OK
15 minute winter	EX_CHANNELDRAIN	13	88.115	0.440	42.0	0.6485	0.0000	FLOOD RISK
30 minute winter	6.001:50%	23	88.062	0.399	90.9	16.5821	0.0000	PONDING
15 minute winter	12	9	87.950	0.750	125.8	2.6723	15.2314	FLOOD
15 minute winter	11	10	87.873	0.833	117.7	1.7283	0.0000	SURCHARGED
15 minute winter	10	10	89.100	1.000	77.7	3.7510	5.6457	FLOOD
15 minute winter	9	11	88.864	1.214	89.5	2.4231	0.0000	SURCHARGED
15 minute winter	8	11	87.368	0.853	218.3	1.6020	0.0000	SURCHARGED
15 minute winter	18	11	88.651	0.751	23.8	1.4503	0.0000	FLOOD RISK
15 minute winter	17	11	88.376	0.856	190.7	4.1644	0.0000	SURCHARGED
360 minute winter	TANK_IN	352	89.083	0.633	13.7	3.3893	0.0000	FLOOD RISK
360 minute winter	TANK_OUT	352	89.083	0.673	27.0	167.4975	0.0000	FLOOD RISK
360 minute winter	15B	352	89.082	0.902	7.1	1.5941	0.0000	FLOOD RISK
360 minute winter	15A	352	89.082	1.132	3.9	1.9998	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	CHANNEL DRAIN	6.000	6.000:50%	17.3	0.176	0.436	2.4258	
15 minute winter	CHANNEL DRAIN	6.000	EX_CHANNELDRAIN	30.7	0.263	0.774	2.4263	
15 minute winter	EX_CHANNELDRAIN	6.001	6.001:50%	43.3	0.615	2.167	2.5527	
15 minute winter	EX_CHANNELDRAIN	6.001	12	75.9	1.129	3.799	2.5517	
15 minute winter	12	1.000	11	96.9	1.377	1.181	2.0517	
15 minute winter	11	1.001	8	113.6	1.613	1.145	3.9676	
15 minute winter	10	2.000	9	48.3	1.223	0.907	1.7006	
15 minute winter	9	2.001	8	81.6	2.051	1.568	2.1438	
15 minute winter	8	1.002	7	214.2	1.942	1.199	0.8289	
15 minute winter	18	3.000	17	23.6	1.341	1.215	0.3387	
15 minute winter	17	3.001	13	183.1	2.600	1.303	1.2497	
360 minute winter	TANK_IN	5.000	TANK_OUT	13.3	0.605	0.147	0.4225	
360 minute winter	TANK_OUT	5.001	15B	7.1	0.558	0.096	3.6969	
360 minute winter	15B	5.002	15A	3.9	0.337	0.053	3.6970	
360 minute winter	15A	5.003	15	3.0	0.522	0.039	0.0600	

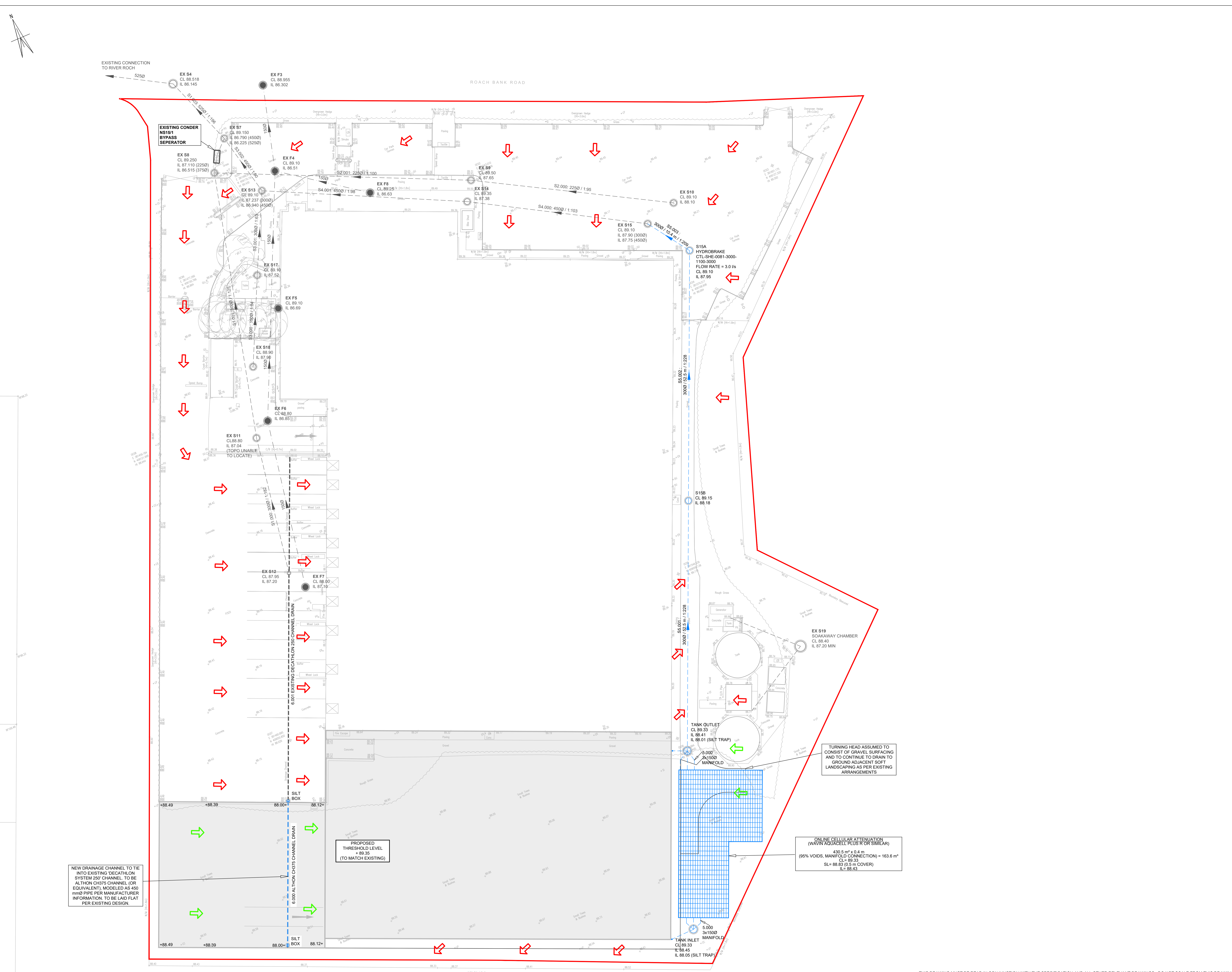
Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.92%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	15	11	88.044	0.294	130.4	1.3618	0.0000	OK
15 minute winter	14	11	88.009	0.629	252.3	2.3869	0.0000	SURCHARGED
15 minute winter	13	11	87.702	0.762	455.4	1.5069	0.0000	SURCHARGED
15 minute winter	7	11	87.187	0.962	667.2	1.7001	0.0000	SURCHARGED
15 minute summer	S4	11	86.642	0.497	653.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	15	4.000	14	125.0	1.265	0.393	5.1140	
15 minute winter	14	4.001	13	240.8	1.520	0.737	6.8364	
15 minute winter	13	3.002	7	454.3	2.868	1.334	2.1219	
15 minute winter	7	1.003	S4	666.6	3.086	1.931	3.3581	446.5

ANNEX 8

Preliminary Surface Water Drainage Layout



NOTES

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT WEETWOOD DRAWINGS. ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF WEETWOOD.
- ANNUAL EXCEEDANCE PROBABILITY RAINFALL EVENTS:
 - 100.0% (1:1) AEP RAINFALL EVENT
 - 3.3% (1:30) AEP RAINFALL EVENT
 - 1.0% (1:100) AEP RAINFALL EVENT
- PROPOSED SITE LAYOUT TAKEN FROM UMC ARCHITECTS 'PROPOSED SITE PLAN' DRAWING (REF: 21663-F002-8, AUG 2022).
- EXISTING LEVEL INFORMATION TAKEN FROM N D OLIVER & CO 'TOPOGRAPHIC SURVEY' (REF: 11903, JUL 2022).
- EXISTING DRAINAGE INFORMATION TAKEN FROM CLIENT SUPPLIED RECORDS DRAWING BY BURKS GREEN (NOV 2004)
 - 'COORDINATED DRAINAGE LAYOUT' (REF: 14224/ A1 / 310 REV D)
 - 'INTERCEPTOR DETAILS' (REF: 14224/ A1 / 318 REV A)
 - 'OVERALL SITE DRAINAGE' (REF: 14224/ A1 / 806 REV H)

DRAINAGE KEY

- EXISTING PRIVATE FOUL WATER SEWER
- EXISTING PRIVATE SURFACE WATER SEWER
- EXISTING DRAINAGE CHANNEL
- PROPOSED SURFACE WATER SEWER
- PROPOSED DRAINAGE CHANNEL
- EXISTING SURFACE WATER MANHOLE
- EXISTING COMBINED FOUL WATER MANHOLE
- PROPOSED SURFACE WATER MANHOLE/PPIC
- PROPOSED CELLULAR STORAGE
- EXISTING LEVEL
- PROPOSED EXTERNAL LEVEL
- SITE BOUNDARY
- EXISTING OVERLAND FLOW ROUTE
- PROPOSED OVERLAND FLOW ROUTE

P2	12.03.26	ISSUED TO ACCOMPANY DVC TECHNICAL NOTE	DSH	TB
P1	26.08.22	ISSUED FOR INFORMATION	MD	TB
REV	DATE	DESCRIPTION	DRAWN BY	CHECK BY

Development • Planning • Environment

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Bymer Gwari, Mold
CH7 1FQ
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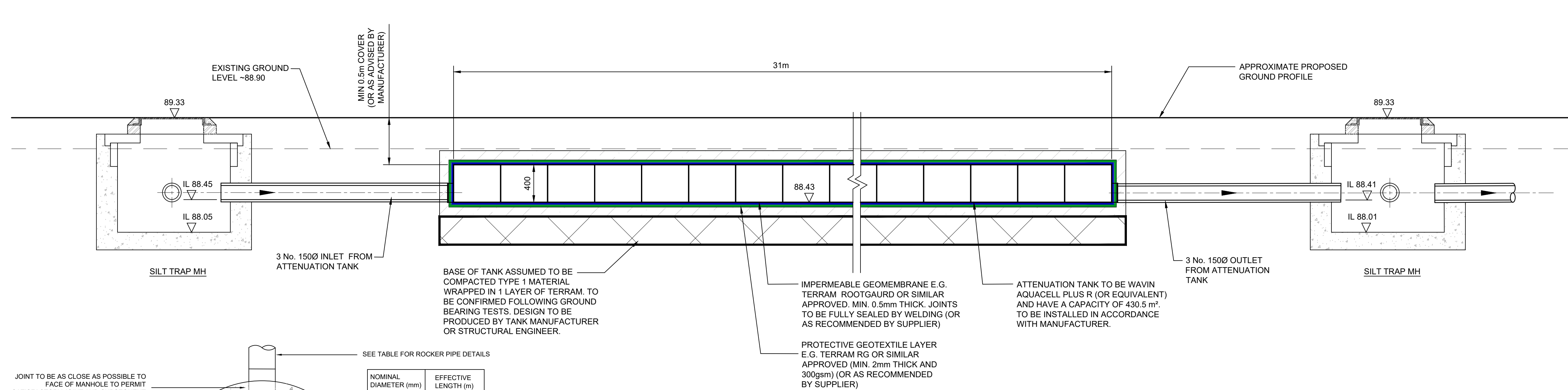
Client

ROACH PILSWORTH LTD

Drawing Status	Date
PLANNING	AUG 2022
Project	Drawn by
UNIT 3 - L'OREAL FACILITY	MD
Roach Bank Road, Bury	Check by
	TB
Drawing Number	Revision
5655-WTWD-00-XX-DR-D-100	P2
Drawing Title	
PRELIMINARY SURFACE DRAINAGE LAYOUT	

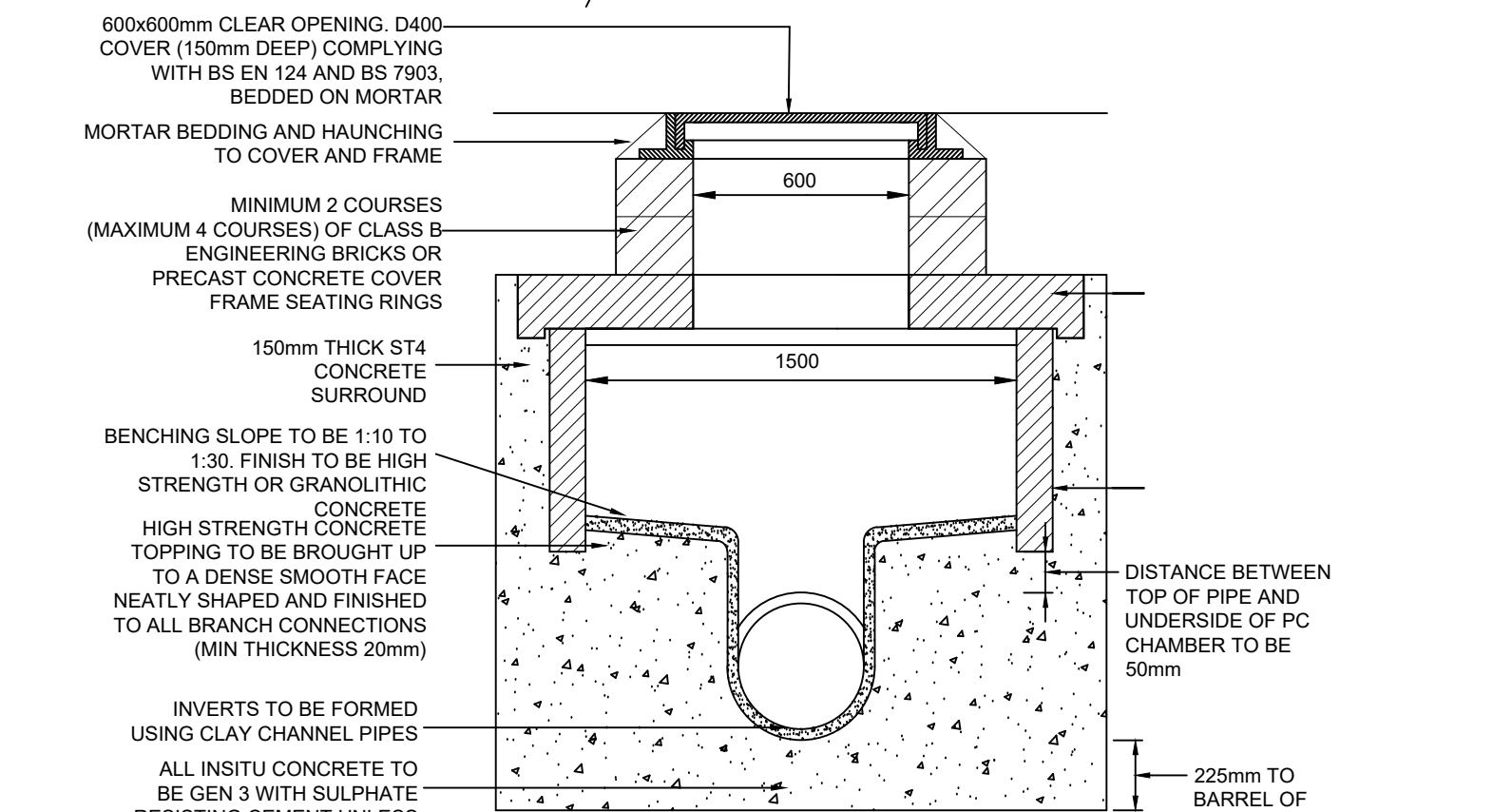
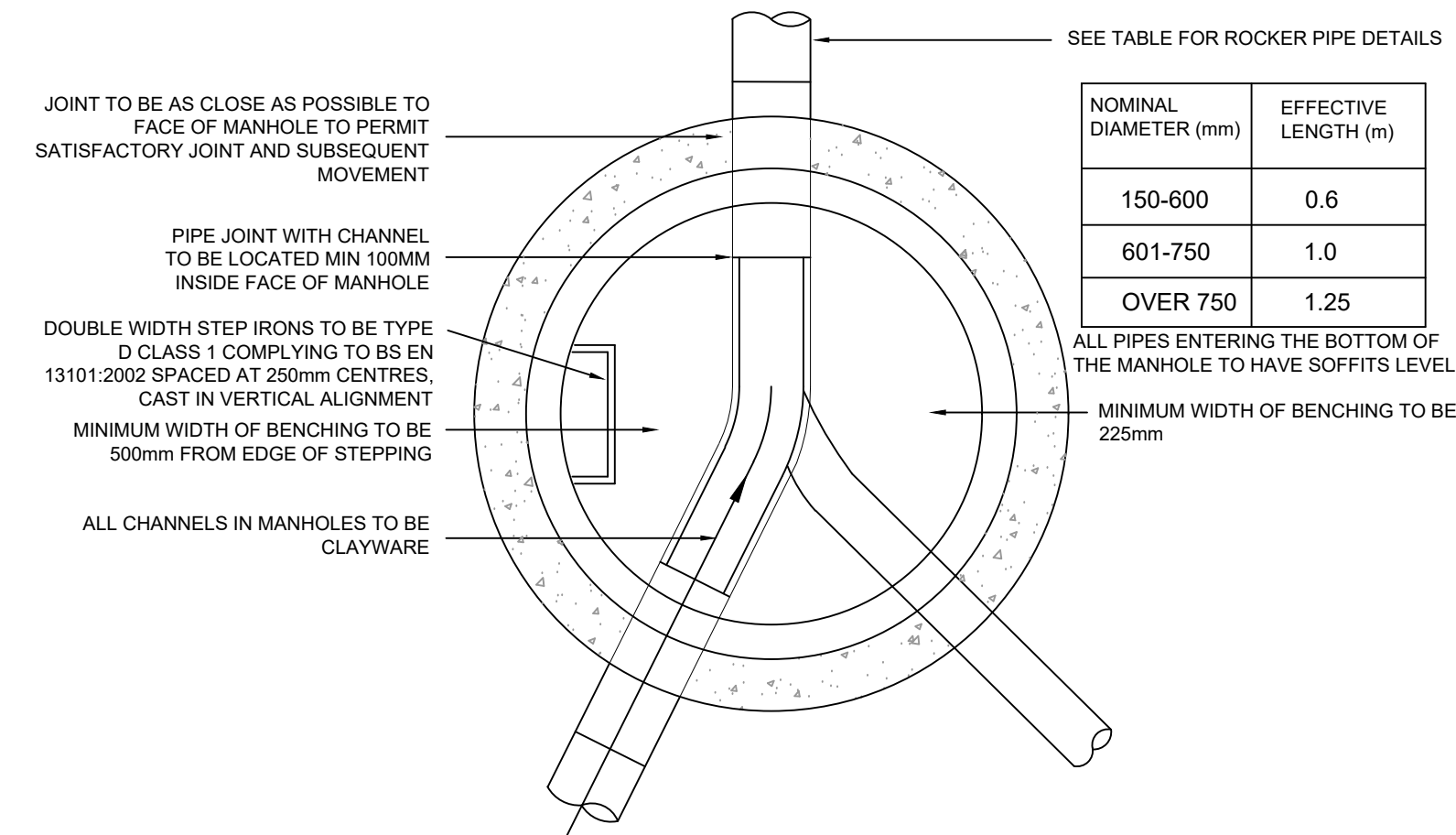
ANNEX 9

Typical Drainage Details

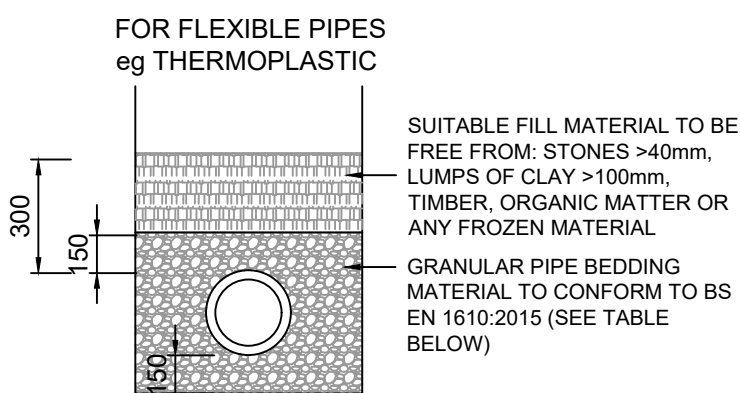


ATTENUATION TANK SECTIONAL DETAIL

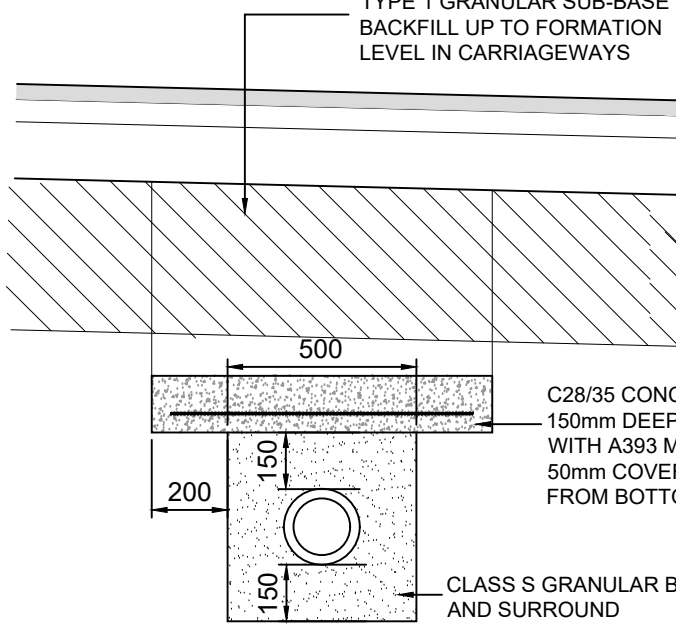
SCALE 1:25



TYPICAL MANHOLE DETAIL TYPE B1/E MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE <1500

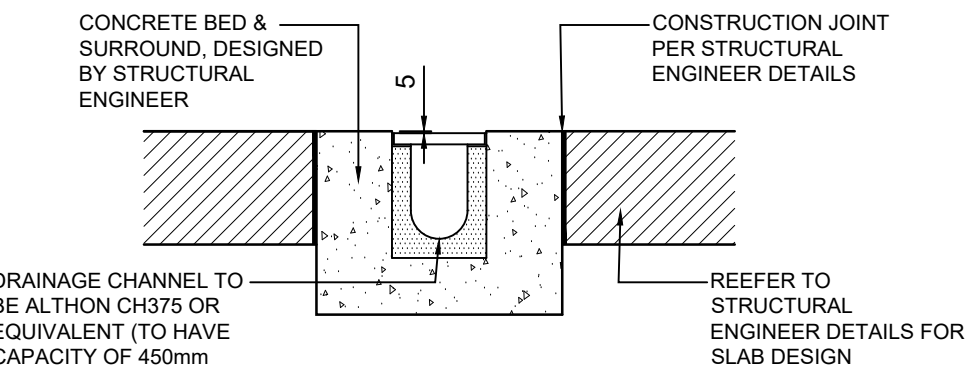


CLASS S BEDDING DETAIL

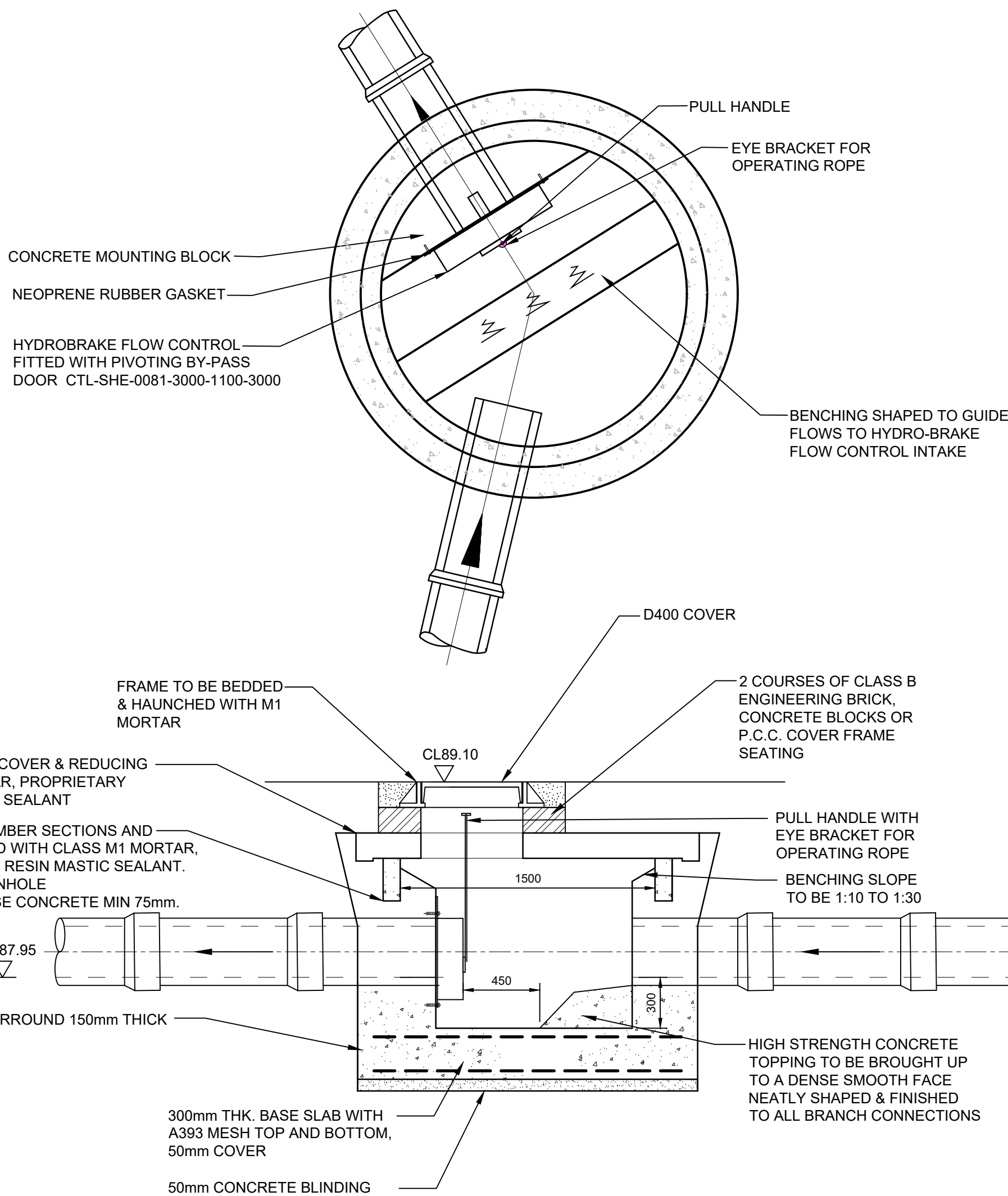


CONCRETE SLAB PROTECTION DETAIL

REQUIRED WHEN DEPTH TO PIPE SOFFIT IS LESS THAN 1.2m (OR 0.9m IN NON-TRAFFICKED AREAS)



HIGH CAPACITY CHANNEL DRAIN DETAIL



S15A FLOW CONTROL MANHOLE DETAIL

SCALE 1:25

NOTES

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT WEETWOOD DRAWINGS. ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE OVERSEEING ORGANISATION.
- THE WORKS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, NATIONAL BUILDING SPECIFICATION (NBS), DESIGN AND CONSTRUCTION GUIDANCE SEWERAGE SECTOR GUIDANCE APPENDIX C AND VOLUME 1 OF THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS.
- THE CONTRACTOR TO CONFIRM POSITION OF ALL ON-SITE EXISTING SEWERS, AND OTHER BELOW GROUND SERVICES, TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
- THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DEALING WITH AND DISPOSING OF GROUND/SURFACE WATER ENCOUNTERED DURING EXCAVATIONS.
- ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED FOLLOWING THE INSTALLATION OF ALL DRAINAGE WORKS. ALL SURFACE MARKINGS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED.
- ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE.
- UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AS BUILT SETTING OUT CO-ORDINATE AND LEVEL INFORMATION.
- ANY AND ALL STATUTORY UNDERTAKERS EQUIPMENT TO BE DIVERTED / PROTECTED AS REQUIRED BY EACH INDIVIDUAL STATUTORY UNDERTAKER.
- ROCKER PIPES TO BE PROVIDED AT ENTRY AND EXIT OF MANHOLES FOR ALL PIPES OF 750mm AND LESS.
- INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS 4027, UNLESS AGREED OTHERWISE WITH THE ADOPTING AUTHORITY.
- VITRIFIED CLAY PIPES AND FITTINGS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EQUIVALENT BS EN295 PIPE CRUSHING STRENGTH.
- MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN124, HAVE 800 x 800 CLEAR OPENINGS UNLESS OTHERWISE SPECIFIED AND BE OF A NON-ROCKING DESIGN WITHOUT CUSHION INSERTS. LOAD CLASS D400 IN VEHICULAR TRAFFICKED AREAS AND LOAD CLASS C250 IN ESTATE ROADS AND CAR PARKING AREAS.
- GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN295 AND BE OF A NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 IN VEHICULAR TRAFFICKED AREAS AND LOAD CLASS C250 IN ESTATE ROADS AND CAR PARKING AREAS.
- SEWERS TO BE LAID IN CLASS 'S' BEDDING (150mm GRANULAR BED & SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONE VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED & SURROUND.
- SELECTED BACKFILL MATERIAL SHALL CONSIST OF UNIFORM SOIL, FREE FROM STONES LARGER THAN 40mm, TREE ROOTS, ORGANIC MATTER AND FROZEN SOIL. ALTERNATIVELY CLASS 8F1 CAPPING LAYER CAN BE USED (SEE NOTE 17).
- GENERAL BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF NOTE 15 AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 150mm, EACH LAYER TO BE WELL COMPACTED TO FORM A SUITABLE TRENCH BACKFILL. ALTERNATIVELY CLASS 8F1 CAPPING LAYER CAN BE USED.
- BACKFILL AND REINSTATEMENT TO TRENCHES IN HIGHWAYS TO BE IN ACCORDANCE WITH "THE STREET WORKS REGULATIONS" AND RELEVANT PROVISIONS OF H.A.U.C. "SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS" BOTH UNDER SECTION 71 OF THE NEW ROADS AND STREET WORKS ACT 1991.
- ALL DIMENSIONS INDICATED ARE MINIMUM.
- ALL DRAINAGE WORK TO COMMENCE AT OUTFALL AND PROCEED UPSTREAM.
- ALL DRAINAGE GOODS SHALL BE KITEMARKED.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING STATUTORY SERVICES WITHIN OR IMMEDIATELY ADJACENT TO THE CULVERTS / CHANNEL AND BASIN AND AGREE SAFE WORKING METHODS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE AND LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE INSTALLATIONS.
- ANY AREAS OF POOR GROUND IN THE AREA OF THE CHANNEL / BASIN TO BE EXCAVATED AND REMOVED DURING FORMATION AND BACKFILLED WITH SUITABLE STRUCTURAL MATERIAL. CONTRACTOR TO ALLOW FOR POSSIBLE OVER DIG IN AREAS TO REMOVE UNSUITABLE MATERIAL.
- ALL BULK BACKFILL MATERIALS USED IN THE CONSTRUCTION OF THE OPEN CHANNEL AND FLOOD STORAGE ARE

P1	11.03.26	ISSUED TO ACCOMPANY Doc TECHNICAL NOTE	DSH	TB
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REV	DATE	DESCRIPTION	DRAWN BY	CHECK BY
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Development • Planning • Environment

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Client	ROACH PILSWORTH LTD
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Drawing Status	Date
PLANNING	MAR 2026
Project	Scale (A1)
UNIT 3 - L'OREAL FACILITY ROACH BANK ROAD, BURY	1:500
Drawn by	DSH
Check by	TB
Drawing Number	Revision
5655-WTWD-00-XX-DR-D-110	P1

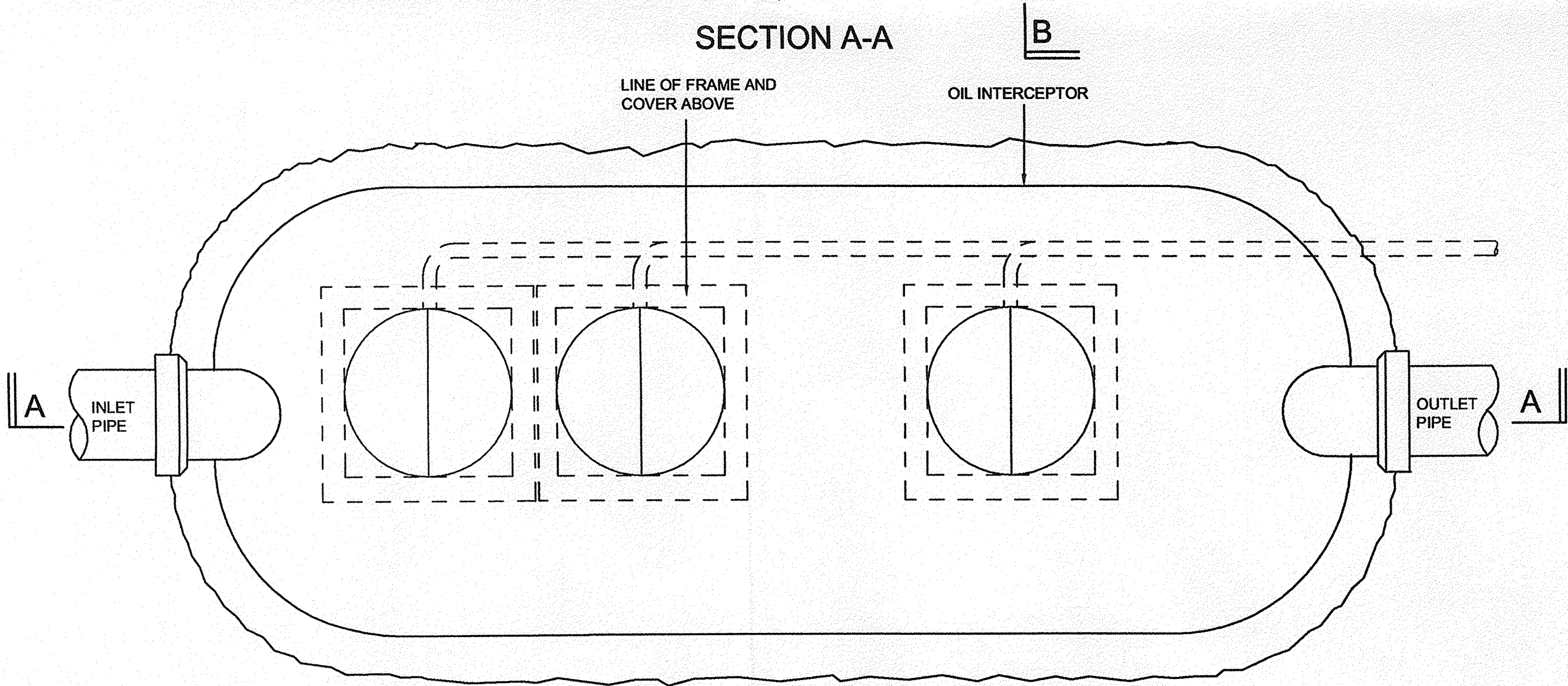
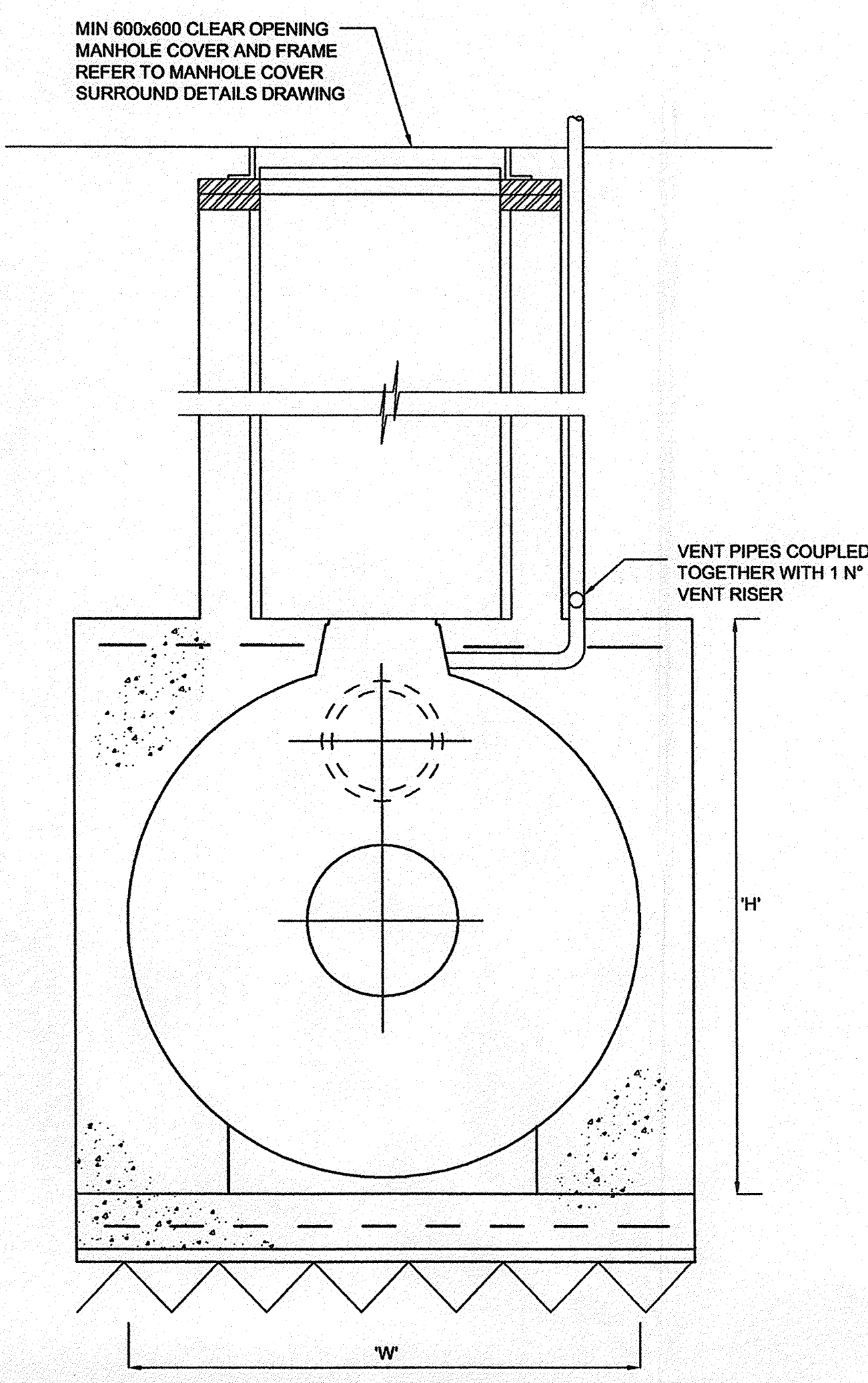
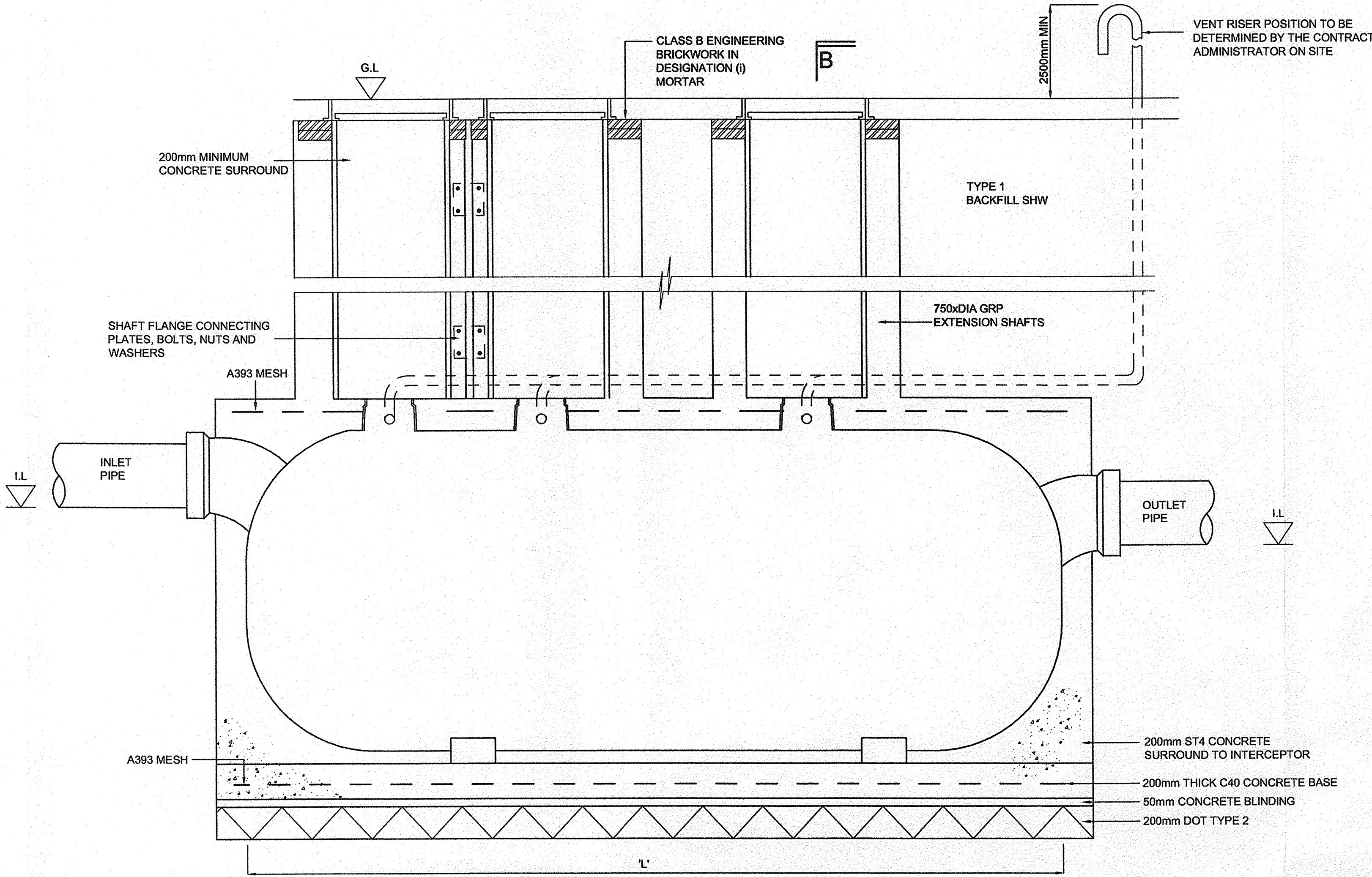
DRAINAGE DETAILS

ANNEX 10

Conder Bypass Separator Information

notes :

1. IF THIS DRAWING HAS BEEN RECEIVED ELECTRONICALLY IT IS THE RECIPIENTS RESPONSIBILITY TO PRINT THE DOCUMENT TO THE CORRECT SCALE
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE IT IS RECOMMENDED THAT INFORMATION IS NOT SCALED OFF THIS DRAWING
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
4. ALL CONCRETE TO HAVE A CHARACTERISTIC COMPRESSIVE STRENGTH OF 40N/mm AT 28 DAYS
MAXIMUM FREE WATER / CEMENT RATIO = 0.55
NOMINAL MAXIMUM AGGREGATE SIZE = 20mm
5. MINIMUM COVER TO REINFORCEMENT TO BE 50mm UNLESS STATED OTHERWISE.
6. ALL CONCRETE TO BE VIBRATED TO FORM A DENSE MASS FREE OF VOIDS.
7. THE INSTALLATION AND CONCRETE SURROUND TO THE INTERCEPTOR ARE TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
8. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED, THE CONTRACTOR MAY OFFER AN EQUAL OR SUPERIOR QUALITY ALTERNATIVE FOR APPROVAL BY THE CONTRACT ADMINISTRATOR.
9. ALL EXTERNAL GULLY GRATINGS AND FRAMES TO BE MANUFACTURED TO MEET THE LOAD REQUIREMENTS OF BS EN 124/FAC1A:
CLASS A15/A - PEDESTRIAN AREAS;
CLASS C250/C - CARRIAGEWAYS (WITHIN 0.5m OF KERBLINE);
CLASS D400/D - CARRIAGEWAYS.
ALL COVERS IN CARRIAGEWAYS TO INCORPORATE AN ANTI-ROCKING DEVICE.
10. FOR DETAILS OF EXTERNAL MANHOLE COVER SURROUNDS, PLEASE REFER TO DRAWING NO 14224/A1/255
ALL MANHOLE COVERS ARE TO BE SEATED ON DESIGNATION (I) MORTAR IN ACCORDANCE WITH THE SPECIFICATION.
11. ALL INTERCEPTORS TO COMPLY WITH PPG3 GUIDELINES.
12. ALL INTERCEPTORS ARE TO BE FITTED WITH OIL LEVEL ALARM AND SILT LEVEL ALARM RELAYED TO BMS.
13. VENT PIPES TO BE 75mm Ø GALVANISED STEEL WRAPPED IN DENSOTAPE BELOW GROUND.



PLAN ON INTERCEPTOR

INTERCEPTOR DIMENSIONS TABLE													
INTERCEPTOR REFERENCE No.	NSB VALUE	MANUFACTURER AND MODEL *	TYPE AND CLASS	SILT CAPACITY	PIPE ORIENTATION	INCOMING PIPE DIAMETER (mm)	INCOMING PIPE INVERT LEVEL (m)	OUTGOING PIPE DIAMETER (mm)	OUTGOING PIPE INVERT LEVEL (m)	FALL ACROSS INTERCEPTOR (mm)	INTERCEPTOR LENGTH (mm)	INTERCEPTOR WIDTH (mm)	APPROXIMATE GROUND LEVEL
315	15	CONDER NS 15/1	1	1500	A	375	86.495	375	86.395	50	3844	1500	89.250

* OR SIMILAR APPROVED

100mm SCALE 1:20

FINAL ISSUE

A	Status Amended Interceptor Manufacturer revised	GB	17.11.2004
rev	amendments	by	date
Burks Green Sherwood House, Newark, Nottinghamshire, NG24 1QQ			
T +44 (0) 1636 605 700 F +44 (0) 1636 610 695 W www.burksgreen.com E mail@burksgreen.com			
Client: 			
Project: Roach Bank Farm			
Title: Interceptor Details			
Drawing Status: Final Issue	Date Created: 29.03.04	Drawing Scale: 1:20	
Drawing Number: 14224 /A1 / 315		Rev: A	
Project Leader: TG	Drawn By: JM	Initial Review: GB	

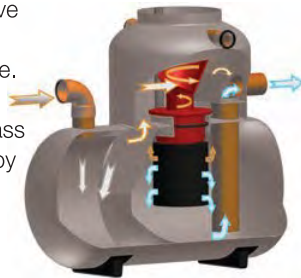
Conder Bypass Separators

Premier Tech Aqua's range of Conder Bypass Separators are used to fully treat all flows generated by rainfall rates of up to 6.5 mm/hr. Conder Bypass Separators are used when it is considered an acceptable risk not to provide full treatment for high flows, for example where only small spillages occur and the risk of spillage is small.



Performance

Conder Bypass Separators have been designed to treat all flow up to the designed nominal size. Any flow in excess of the nominal size is allowed to bypass the separation chamber, thereby keeping the separated and trapped oil safe.



How it Works

Step 1

During the early part of a rain storm, which is a time of high oil contamination, all of the contaminated water flow passes through the sediment collection chamber and enters the separation chamber through a patented oil skimming and filter device.

Step 2

All of the oil then proceeds to the separation chamber where it is separated to the Class 1 standard of 5 mg/L and safely trapped.

Step 3

As the rainstorm builds up to its maximum and the level of oil contamination reduces significantly, the nominal size flow continues to pass through the separation chamber and any excess flow of virtually clean water is allowed to bypass directly to the outlet.

Typical Applications

- Car parks
- Roadways and major trunk roads
- Light industrial and goods yards

Features and Benefits

- Innovative design
- Compact and easy to handle/install
- Fully compliant to the Environment Agency's PPG3 guidelines
- Low product and install costs
- Full BSI certification
- Exceeds industry standards
- Easy to service
- Fully tested and verified with a range from CNSB 3 to CNSB 1000 (Class 1)

Specifications Larger models up to CNSB 1000 are available.

Area Drained (m²)	Tank Code including Silt	Length including Silt (mm)	Silt Capacity (L)	Oil Storage Capacity (L)	Diameter (mm)	Height (mm)	Base to Inlet Invert (mm)	Base to Outlet Invert (mm)	Access (mm)
1667	CNSB3s/21	1400	300	45	1026	2200	1730	1680	750
2500	CNSB4.5s/21	1785	450	67.5	1026	1875	1270	1220	600
3333	CNSB6s/21	1975	600	90	1026	1875	1270	1220	600
4444	CNSB8s/21	2165	800	120	1026	1875	1270	1220	600
5555	CNSB10s/21	2485	1000	150	1026	1875	1270	1220	600
8333	CNSB15s/21	2670	1500	225	1210	2150	1450	1400	600
11111	CNSB20s/21	3115	2000	300	1210	2150	1450	1400	600
13889	CNSB25s/21	3555	2500	375	1210	2150	1450	1400	600
16667	CNSB30s/21	3470	3000	450	1510	2690	1770	1720	750
22222	CNSB40s/21	4040	4000	600	1510	2690	1770	1720	750
27778	CNSB50s/21	4655	5000	750	1510	2690	1770	1720	750
33333	CNSB60s/21	4415	6000	900	1880	3300	2025	1975	2 x 600
44444	CNSB80s/21	5225	8000	1200	1880	3300	2025	1975	2 x 600
55556	CNSB100s/21	6010	10,000	1500	1880	3300	2025	1975	2 x 600

Note: It is a requirement of PPG3 that you have a silt capacity either in your tank or in an upstream catch pit.

Delivering client focussed services nationally

Flood Risk Assessments
Flood Consequences Assessments
Surface Water Drainage
Foul Water Drainage
Environmental Impact Assessments
River Realignment and Restoration
Water Framework Directive Assessments
Environmental Permit and Land Drainage Applications
Sequential, Justification and Exception Tests
Utility Assessments
Expert Witness and Planning Appeals
Discharge of Planning Conditions

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