



NOTE
NEW EXTENSION CONSTRUCTED OVER
EXISTING FOUL AND SURFACE WATER
DRAINS

SW1/04
ORIFICE FLOW CONTROL CHAMBER.
CHAMBER TO BE CONTROFLOW 500
SERIES BY SEL ENVIRONMENTAL OR
SIMILAR
ORIFICE SIZE = 45mm
OVERFLOW WEIR LEVEL = 234.851m
FLOW RATE = 3.5 l/s

1. ALL PROPOSED LEVELS TO BE CHECKED AND CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY. ALL DOWNSTREAM LEVELS TO BE CHECKED AND CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF ANY UPSTREAM DRAINAGE.
2. THE POSITION AND LEVELS OF ALL DRAINS ARE TO BE CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY DISCREPANCIES REPORTED IMMEDIATELY TO THE ENGINEER.
3. ALL PRIVATE DRAINAGE WITHIN THE SITE IS TO COMPLY WITH THE REQUIREMENTS OF BS EN 752:2017 AND BUILDING REGULATIONS PART H.
4. CONCRETE PROTECTION PIPEWORK IS TO BE PROVIDED AS FOLLOWS:
 - a. ALL PIPEWORK WITHIN PEDESTRIAN/ SOFT AREAS WITH LESS THAN 450mm COVER
 - b. ALL PIPEWORK SUBJECT TO VEHICULAR OVERRUN WITH LESS THAN 0.9m COVER. REINFORCED PROTECTIVE SLAB WHERE COVER IS LESS THAN 0.6m. ALSO REFER TO DETAIL WHERE IN CLOSE PROXIMITY TO FOUNDATIONS. ELSEWHERE PIPES TO HAVE CLASS S AND Z SURROUND.
4. ALL PIPEWORK WITHIN MANHOLES ARE TO BE LAID SOFFIT TO SOFFIT (UNLESS NOTED OTHERWISE). ALL CHAMBER INVERT LEVELS ARE FOR THE OUTGOING PIPE LEVELS. BACKDROP PIPEWORK SHALL BE CONNECTED AT SOFFIT TO SOFFIT WITH THE RODDING ACCESS LEVEL SPECIFIED.
5. ANY GRADIENTS OF DRAINS ARE INDICATIVE ONLY AND THE CONTRACTOR SHALL INSTALL THE DRAINS TO THE SPECIFIED LEVELS SHOWN FOR EACH MANHOLE (UNLESS NOTED OTHERWISE).
6. CO-ORDINATE SETTING OUT INFORMATION FOR MANHOLES IS TO THE INTERSECTION OF THE DRAINS AND NOT THE CENTRE OF THE MANHOLE.
7. COVER LEVELS OF THE MANHOLES ARE PROVISIONAL AND SUBJECT TO ADJUSTMENT ON SITE TO SUIT THE FINISHED GROUND LEVELS.
8. MANHOLE COVERS AND FRAMES ARE TO BE IN ACCORDANCE WITH BS EN 124 AND THE FOLLOWING:
 - a. HIGHWAY AREAS: CLASS D400, DOUBLE TRIANGULAR, 150mm DEEP DUCTILE IRON COVER AND FRAME WITH THREE POINT COVER SEATING, BADGED FW OR SW FOR FOUL OR SURFACE WATER DRAINAGE.
 - b. DRIVES AND OTHER LIGHT VEHICLE AREAS: CLASS B125.
 - c. PEDESTRIAN ONLY AREAS: CLASS A15, 100mm DEEP BADGED FW OR SW FOR FOUL OR SURFACE WATER DRAINAGE.
9. HEAVY DUTY COVER SLABS ARE TO BE USED WITHIN VEHICULAR TRAFFICKED AREAS.
10. GULLY GRATINGS AND STEEL CHANNEL COVERS ARE TO BE IN ACCORDANCE WITH BS EN 124 AS FOLLOWS:
 - a. AREAS SUBJECT TO GENERAL HIGHWAY VEHICLE OVERRUN CLASS D400 MINIMUM.
 - b. AREAS NOT SUBJECT TO REGULAR VEHICLE OVERRUN CLASS C250.
 - c. GULLY GRATES ADJACENT TO KERBS SHALL BE HINGED ON THE SIDE OF THE TRAFFIC DIRECTION (LEFT HAND SIDE).
11. PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS-EN 13598-1 AND BS-EN13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.
12. TESTING OF THE DRAINAGE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE BRITISH STANDARDS AND CURRENT BUILDING REGULATIONS. A SIGNED RECORD BY AN AUTHORISED PERSON OF THE TESTING SHALL BE KEPT AND MADE AVAILABLE TO THE ENGINEER IF REQUESTED.
13. UPON COMPLETION OF THE WORKS, ALL THE DRAINS SHALL BE CLEANED BY JETTING, REMOVING ALL DEBRIS FROM THE SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE OFF SITE PIPEWORK OR ENVIRONMENT.
14. THE CONTRACTOR SHALL ALLOW FOR JETTING OF BOTH FOUL AND SURFACE WATER DRAINAGE SYSTEMS ON COMPLETION. AFTER CLEANING A COLOUR CCTV SURVEY OF ALL THE DRAINAGE SYSTEM AND PROVIDE THE ENGINEER WITH TWO COPIES OF THE CCTV ON DVD IN WINDOWS MEDIA FORMAT (MPEG) AND REPORTS.
15. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH GROUNDWATER IN ALL EXCAVATIONS AND OBTAIN ALL RELEVANT PERMITS FOR TEMPORARY DISPOSAL.
16. PLASTIC PIPES FOR GRAVITY SEWERS, FOR 150-300mm DIAMETER ARE AS FOLLOWS:
 - MARLEY TWINWALL SYSTEM
 - UPONER ULTRARIB SYSTEM
 - OSMA ULTRARIB SYSTEM
 - POLYSEWER TWINWALL SYSTEM
 - POLYPIPES RIGISEWER (400-600MM & 750-900MM)
17. THE INSTALLER OF UPVC PIPEWORK TO ADAPTABLE SEWERS MUST BE ACCREDITED WITH THE BRITISH PLASTICS FEDERATION (BPF), PLASTIC PIPES GROUP. A COPY OF THE ACCREDITATION CERTIFICATE TO BE ISSUED BEFORE ANY WORK ON SITE IS COMMENCED.
18. ALL PIPES TO BE PLASTIC IN ACCORDANCE WITH SFA 7TH EDITION PART E AND NOTE 17 ABOVE.
19. ALL SURFACE WATER DRAINS IN FILTER DRAINS AND BELOW POROUS SURFACES TO HAVE PERFORATED PIPES.
20. ALL YARD GULLY & RAINWATER PIPE CONNECTIONS TO BE 100Ø UNLESS NOTED OTHERWISE.
21. ALL ROAD GULLY CONNECTIONS TO BE 150Ø UNLESS NOTED OTHERWISE.
22. ALL CONCRETE TO HAVE BES 6001 CERTIFICATION.

1. DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. SEE DRAWING 4937-CAU-MYC-XX-DR-7600 FOR MANHOLE SCHEDULE.
4. SEE DRAWING 4937-CAU-XX-XX-DR-C-5600 TO 5602 FOR CONSTRUCTION DETAILS.

 EXISTING FOUL WATER PIPE
 EXISTING SURFACE WATER PIPE
 EXISTING COMBINED WATER PIPE
 EXISTING FOUL WATER CHAMBER
 EXISTING SURFACE WATER CHAMBER
 PROPOSED FOUL WATER PIPE
 PROPOSED SURFACE WATER PIPE
 PROPOSED FOUL WATER CHAMBER
 PROPOSED SURFACE WATER CHAMBER
 PROPOSED BUILDING EXTENSION

Registered Office: InTec, Parc Menai, Bangor, Gwynedd, LL57 4FG Company Registered No: 06716319