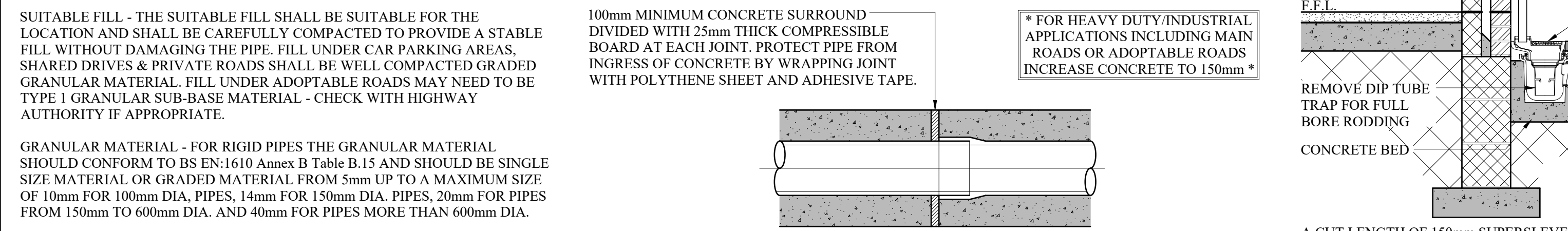
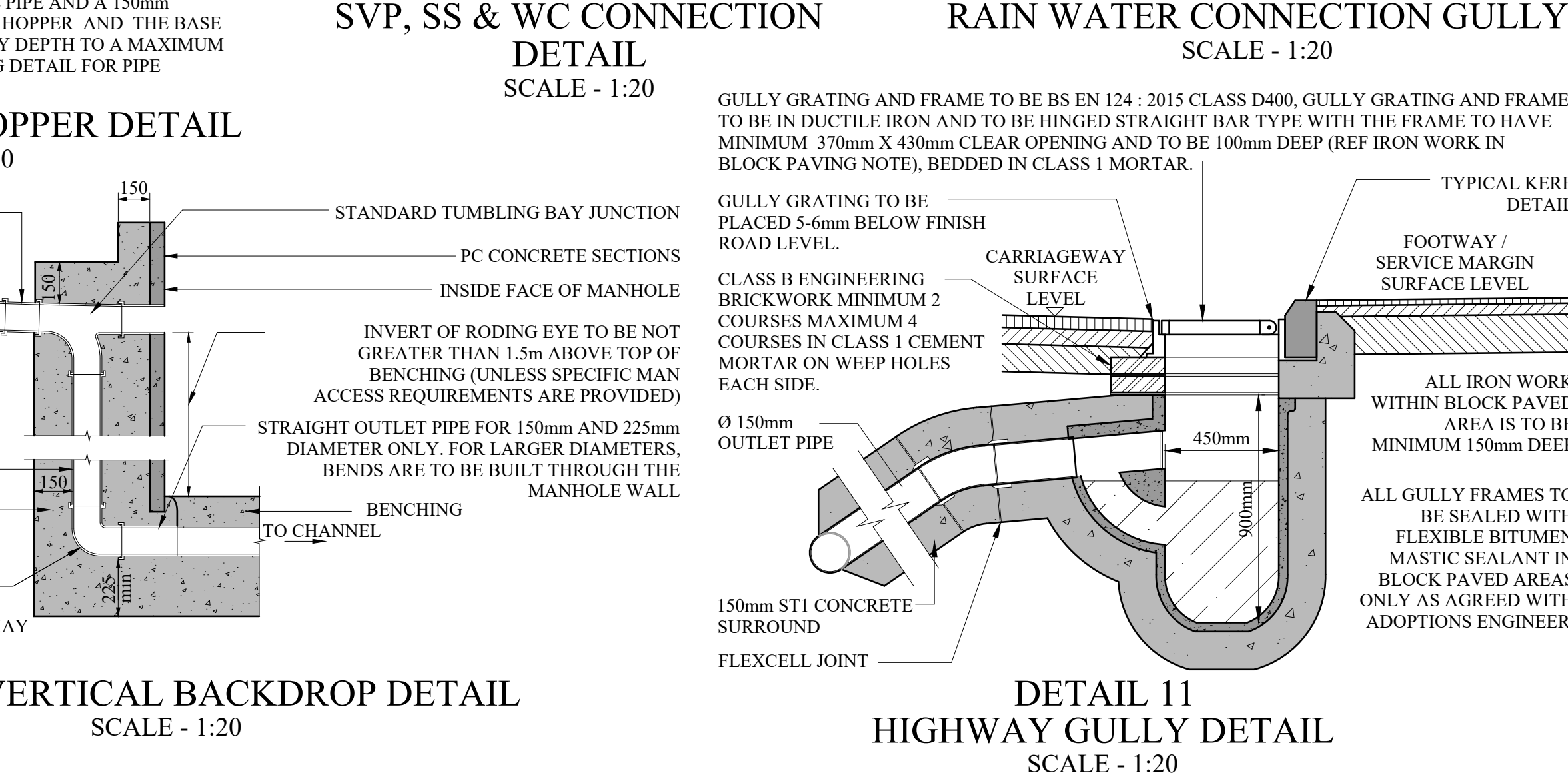
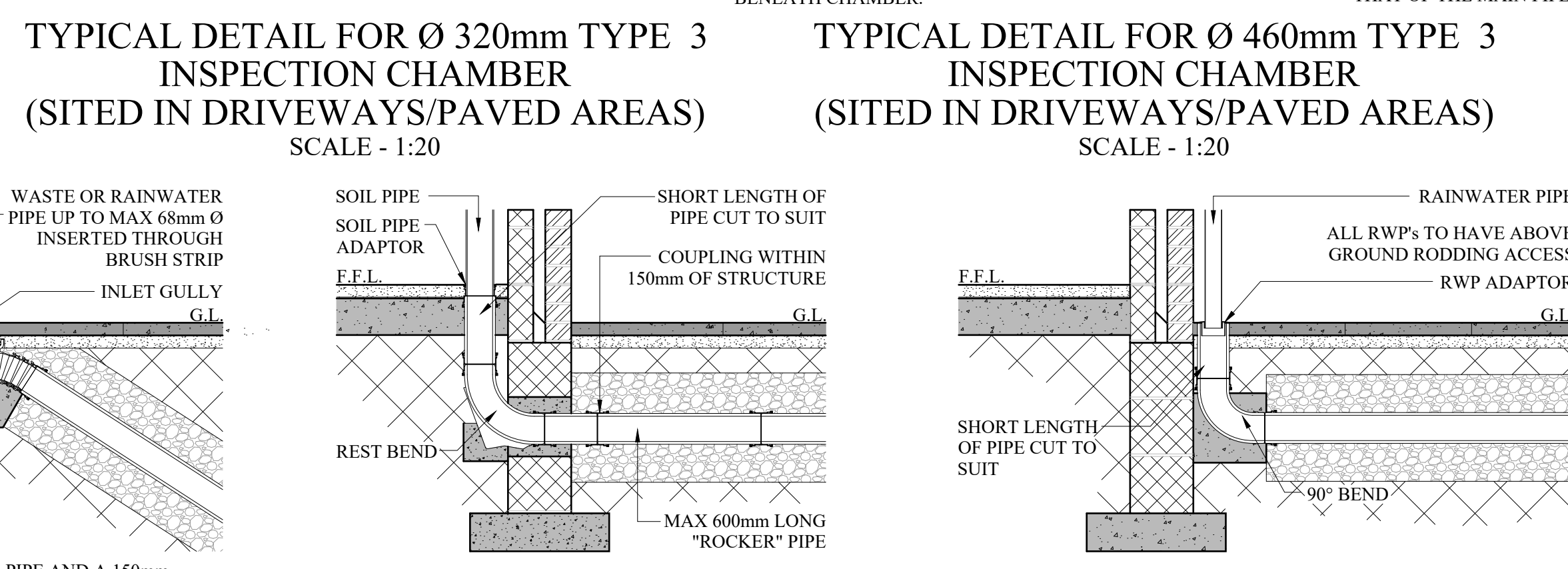
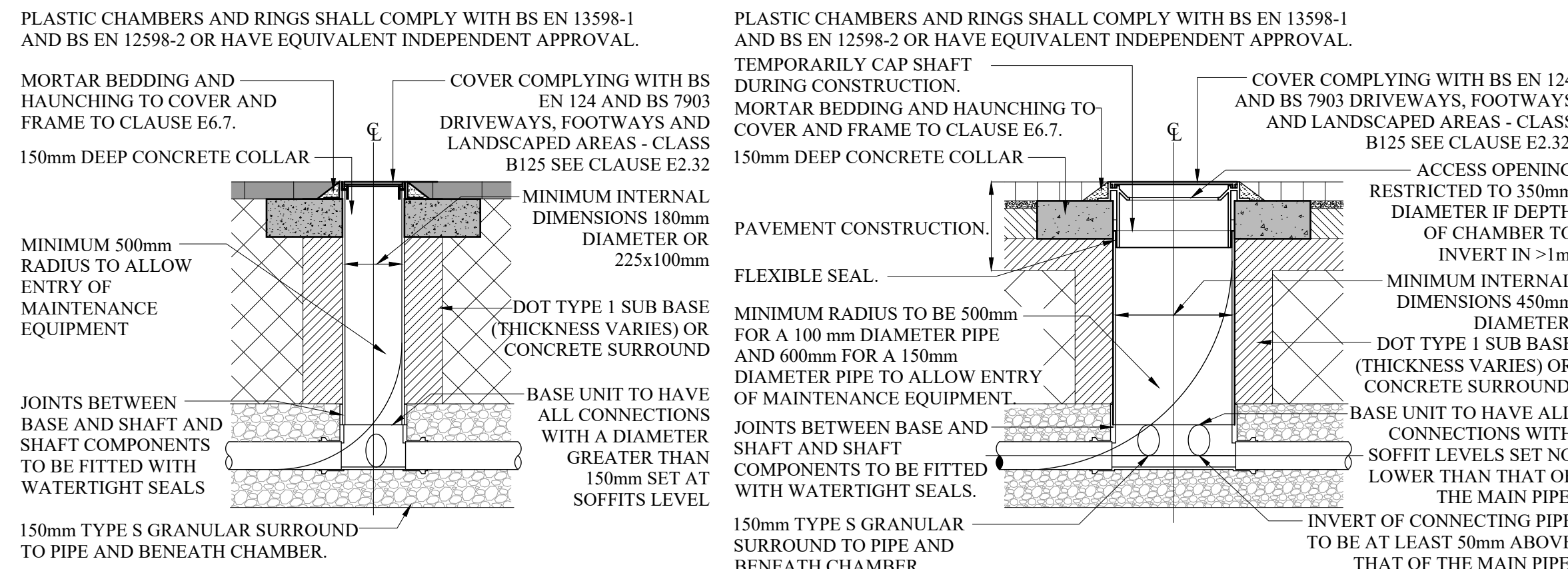
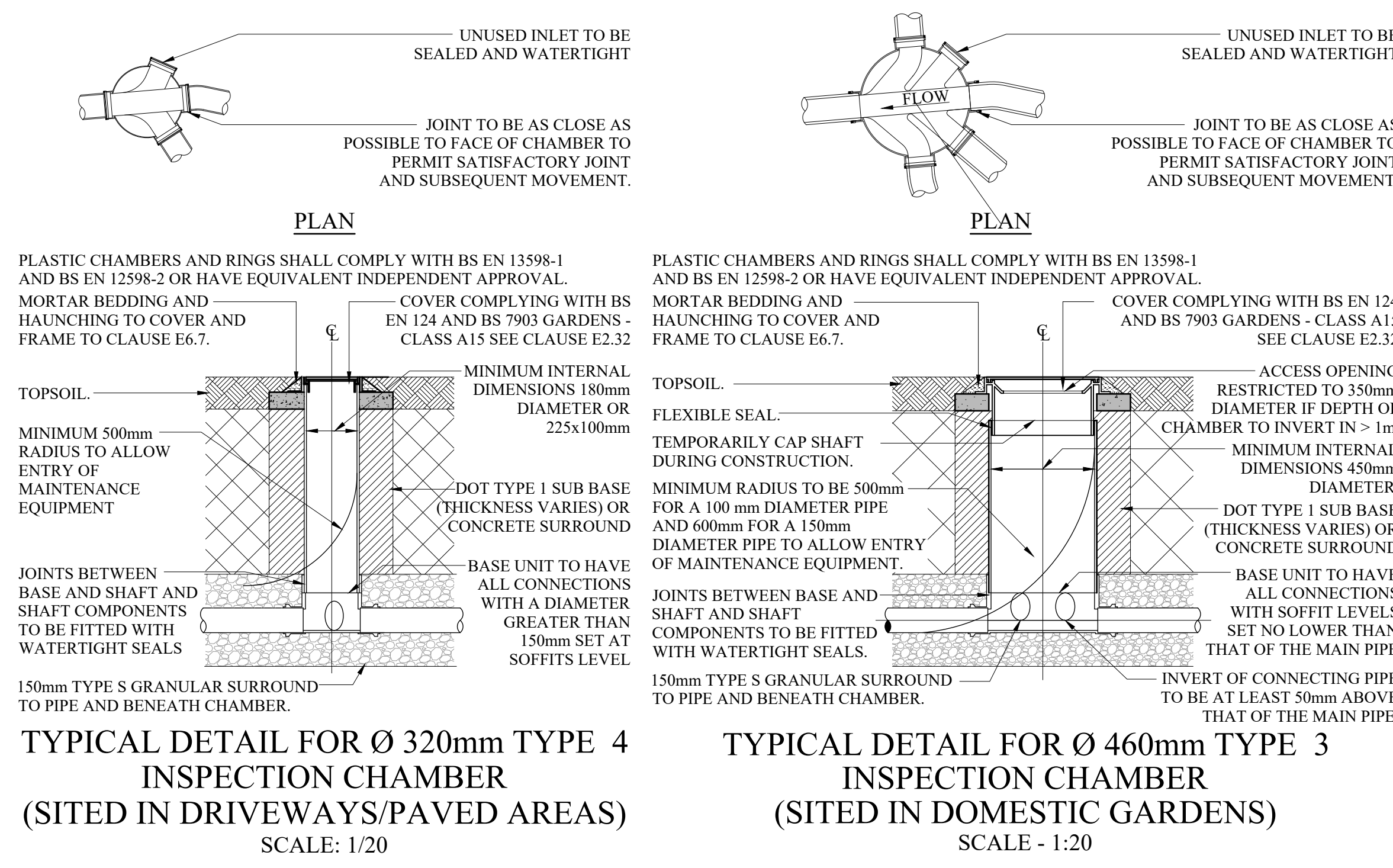
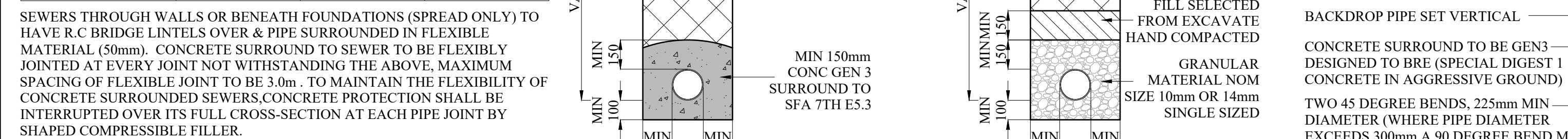


TYPICAL INSTALLATION DETAIL FOR TYPE 2 INSPECTION CHAMBER SCALE - 1:20

TYPICAL INSTALLATION DETAIL FOR TYPE 1B INSPECTION CHAMBER SCALE - 1:20



LIMITS OF COVER IN ANY WIDTH OF TRENCH			
Nominal Size	Laid in Fields	Laid in Light Roads	Laid in Main Roads
CLASS 120 CLAYWARE PIPES (CLASS S BEDDING)			
100mm	0.9m - 8.0m+	1.2m - 8.0m+	1.2m - 8.0m
150mm	0.9m - 8.0m+	1.2m - 8.0m+	1.2m - 8.0m
225mm	0.9m - 5.0m	1.2m - 5.0m	1.2m - 4.5m
400mm	0.9m - 4.5m	1.2m - 4.5m	1.2m - 4.0m
600mm	0.9m - 4.5m	1.2m - 4.5m	1.2m - 4.0m
CLASS 120 CONCRETE PIPES (CLASS S BEDDING)			
300mm	0.9m - 3.0m	1.2m - 3.0m	1.2m - 2.5m
450mm	0.9m - 3.5m	1.2m - 3.5m	1.2m - 2.5m
600mm	0.9m - 3.5m	1.2m - 3.5m	1.2m - 3.0m
THERMOPLASTIC PIPES (CLASS S BEDDING)			
100 - 300mm	0.9m - 7.0m	0.9m - 7.0m	0.9m - 7.0m
300 - 600mm	0.9m - 4.5m	0.9m - 4.5m	0.9m - 4.5m



NOTES

- ALL LEVELS IN METRES UNLESS NOTED OTHERWISE ON DRAWING.
- ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO UNDERTAKING ANY WORKS, ORDERING MATERIALS OR FABRICATING ANY COMPONENTS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS' DRAWINGS AND RELEVANT SPECIFICATION CLAUSES.
- ALL DRAINAGE COMPONENTS ARE TO COMPLY WITH CURRENT BRITISH STANDARDS.
- ALL BURIED CONCRETE TO BE CHEMICAL CLASS DC1 CONCRETE DESIGNATION GEN1, SLUMP CLASS S1 IN STRICT ACCORDANCE WITH BS 8500 PART 2: 2006 AS UPDATED.
- ALL WORKS AND MATERIALS TO BE IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW SERIES 500).
- DRAIN PIPE THROUGH WALLS OR BENEATH FOUNDATIONS (SPREAD ONLY) TO HAVE R.C BRIDGE LINTELS OVER AND PIPE SURROUNDED IN FLEXIBLE MATERIAL (50mm).
- FINAL LOCATIONS AND DETAILS OF SOIL VENT PIPES, STUB STACKS, RAINWATER DOWN PIPES, GULLIES ETC. TO BE CONFIRMED BY REFERENCE TO ARCHITECT DRAWINGS.
- ALL THRESHOLD DRAIN DETAILS TO BE TO ARCHITECT DETAILS.
- ALL PIPES INTO CHAMBERS TO SOFFIT TO SOFFIT U.O.
- AT ALL OUTFALL POINTS TO AN EXISTING NETWORK, THE POSITION AND INVERT LEVEL OF EXISTING DRAINS MUST BE CONFIRMED WELL IN ADVANCE OF THE PROGRAMMED DATE FOR INSTALLING ANY OF THE UPSTREAM DRAINAGE, OR ORDERING OF ANY MATERIALS IN ORDER TO ALLOW TIME FOR ANY NECESSARY REVISIONS TO THE HYDRAULIC DESIGN.
- ALL GRAVITY UPVC PIPEWORK TO BE TO BS 4660 OR BS 5481 WHERE RELEVANT UNLESS NOTED OTHERWISE.
- ALL NON ADOPTABLE DOMESTIC FOUL AND SURFACE WATER PIPE RUNS SHALL CONSIST OF 100mm DIA. PIPES LAID AT NO FLATTER THAN 1 IN 80 FALLS UNO. A SEWER OR LATERAL DRAIN WITH A NOMINAL INTERNAL DIAMETRE OF 100mm, OR A LATERAL DRAIN SERVING TEN OR LESS PROPERTIES IS LAID TO A GRADIENT NOT FLATTER THAN 1:80, WHERE THERE IS AT LEAST ONE WC CONNECTED AND 1:40 IF THERE IS NO WC CONNECTED.
- ALL CONNECTIONS FROM HIGHWAY GULLIES TO BE 150mm DIA. LAID AT FALLS OF BETWEEN 1 IN 20 AND 1 IN 100 WITH TYPE 2 BED AND SURROUND TO ALL CONNECTIONS WITH MIN. 120mm COVER, TYPE 2 BED AND SURROUND TO ALL OTHER CONNECTIONS.
- THERMOPLASTIC PIPES & FITTINGS:
THERMOPLASTIC PIPES, JOINTS & FITTINGS FOR GRAVITY SEWERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 1401-1, BS EN 1852 & BS EN 12666-1.
THERMOPLASTIC STRUCTURED WALL PIPE:
THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 & WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE ISI KITEMARKED OR HAVE EQUIVALENT THIRD PART CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm IN DIAMETRE SHALL HAVE NOMINAL SHORT-TERM RING STIFFNESS NOT LESS THAN 8kN/m² (SNS) OR BE SUBJECT TO A QUALITY SYSTEM FOR STORAGE & EMBEDMENT.
Nom. SHORT TERM RING STIFFNESS OF 2kN/m² (SN2) IS ACCEPTABLE FOR PIPES GREATER THAN Ø500mm, SUBJECT TO SUPPORTING STRUCTURAL DESIGN LOAD CALCULATIONS BEING PROVIDED.
TRANSPORTATION, HANDLING, STORAGE AND LAYING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
WHERE A FITTING IS INSTALLED ON A SEWER LENGTH, IT SHALL HAVE THE SAME INTERNAL BORE AS THE SEWER. Max. LENGTH OF PIPE FOR LAYING IS 3.0m OR Ø x 10, WHICHEVER IS THE GREATER, UNLESS WELDED JOINTS ARE USED.
- CONNECTION TO THE PUBLIC SEWER
A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW. THE DEVELOPER SHALL GIVE 21 DAYS NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY A DCWW HEALTH AND SAFETY APPROVED CONTRACTOR.
- OPTIMUM TRENCH WIDTH
OPTIMUM TRENCH WIDTH = PIPE + 300mm. CONTRACTOR TO ENSURE TRENCH WALLS ARE SUITABLY PROPPED.
- BACKFILLING TO PIPE TRENCHES BENEATH ROADS, CAR PARKING AND STRUCTURES TO BE M.O.T. TYPE 1 GRANULAR MATERIAL UP TO FORMATION LEVEL FROM THE TOP OF THE SPECIFIED PIPE SURROUND (WELL COMPACTED IN 150mm LAYERS).
- BACKFILLING TO PIPE TRENCHES BENEATH LANDSCAPED AREAS TO BE SELECTED EXCAVATE MATERIAL FREE FROM LARGE STONES GREATER THAN 75mm, LUMPS OF CLAY OVER 100mm, ANY TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER UP TO FORMATION / GROUND LEVEL FROM THE TOP OF THE SPECIFIED PIPE SURROUND (WELL COMPACTED IN 150mm LAYERS).
- CONNECTION TO THE PUBLIC SEWER
A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW. THE DEVELOPER SHALL GIVE 21 DAYS NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY A DCWW HEALTH AND SAFETY APPROVED CONTRACTOR.
- CONSTRUCTION OF SEWER TO BE IN ACCORDANCE WITH WELSH MINISTERS STANDARDS AND SFA 7TH EDITION.
- THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED ADOPTABLE LATERAL DRAIN ARE IN ACCORDANCE WITH THOSE SET OUT IN 'SEWERS FOR ADOPTION' 7TH EDITION, THE WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF DCWW AS THE STATUTORY SEWERAGE UNDERTAKER.

S1	P01	14.10.21	FIRST ISSUE						
SUITABILITY	REV	DATE	DESCRIPTION	Org	Check	Approved	Auth		
DRAWING STATUS:									
PROJECT TITLE:									
MORETUBE, BRYN CEFNI									
DRAWING TITLE:									
PROPOSED DRAINAGE CONSTRUCTION DETAILS									
DRAWING NO:									
PROJECT	ORIGINATOR	VOL	LOC	TYPE	ROLE				
004221	CCE	V1	XX	40:40:01	C				
CLASSIFICATION		NO	SUITABILITY	REVISION					
50:30		0006	S1	P01					
ORIGINATOR:	DATE:	SCALE:	ORIGINAL SIZE:						
M.JONES	14.10.2021	1:20	A1						

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