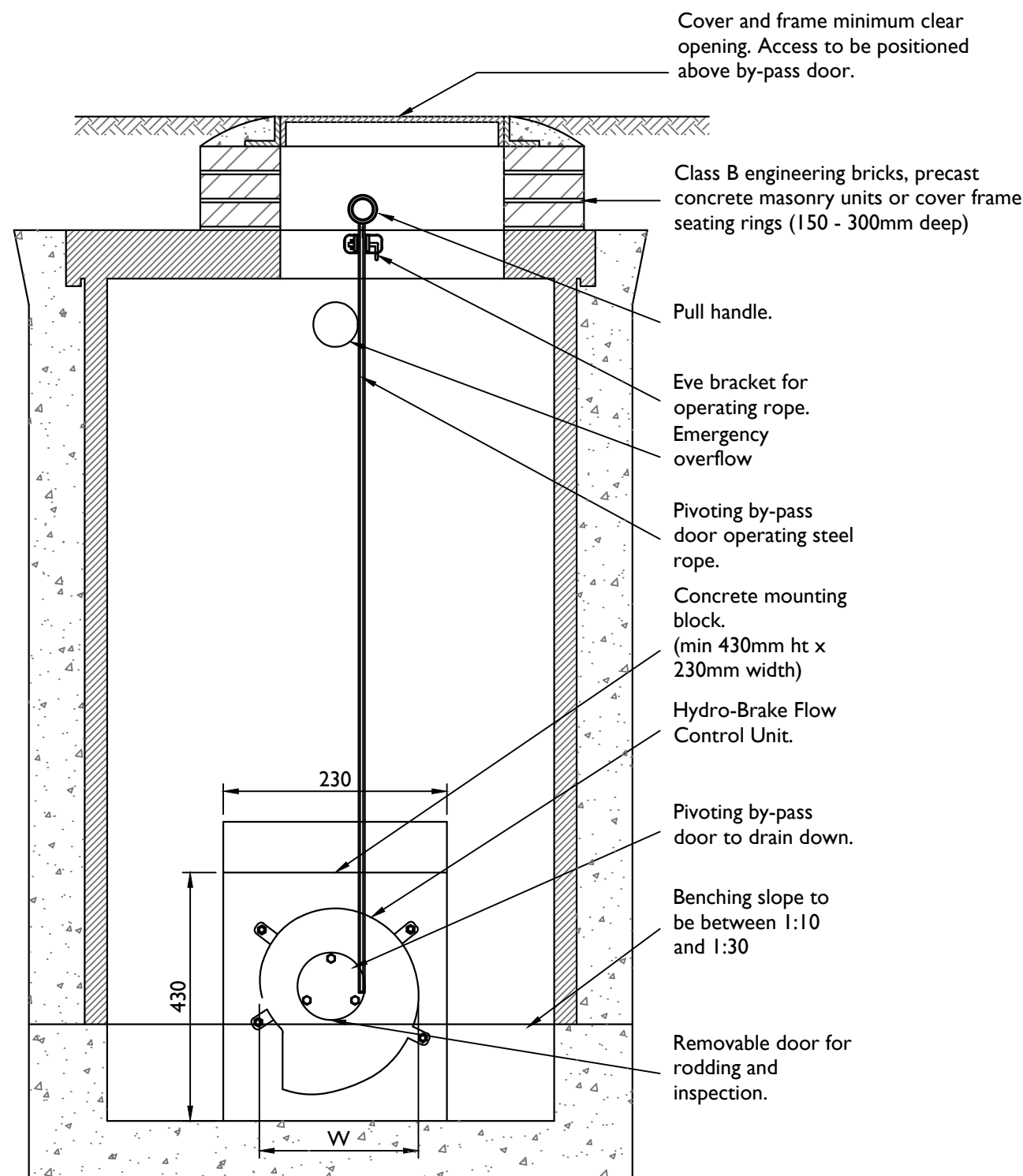
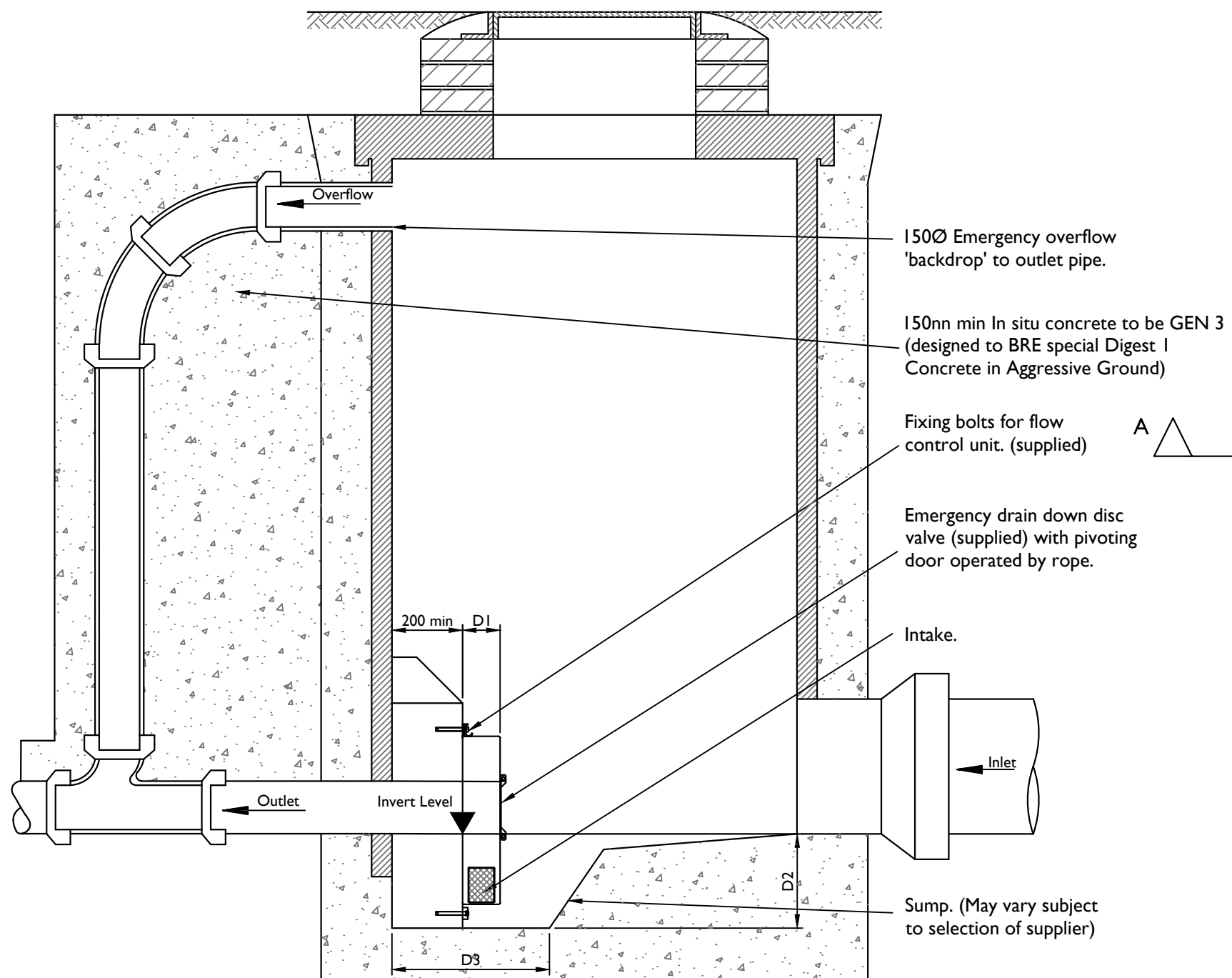
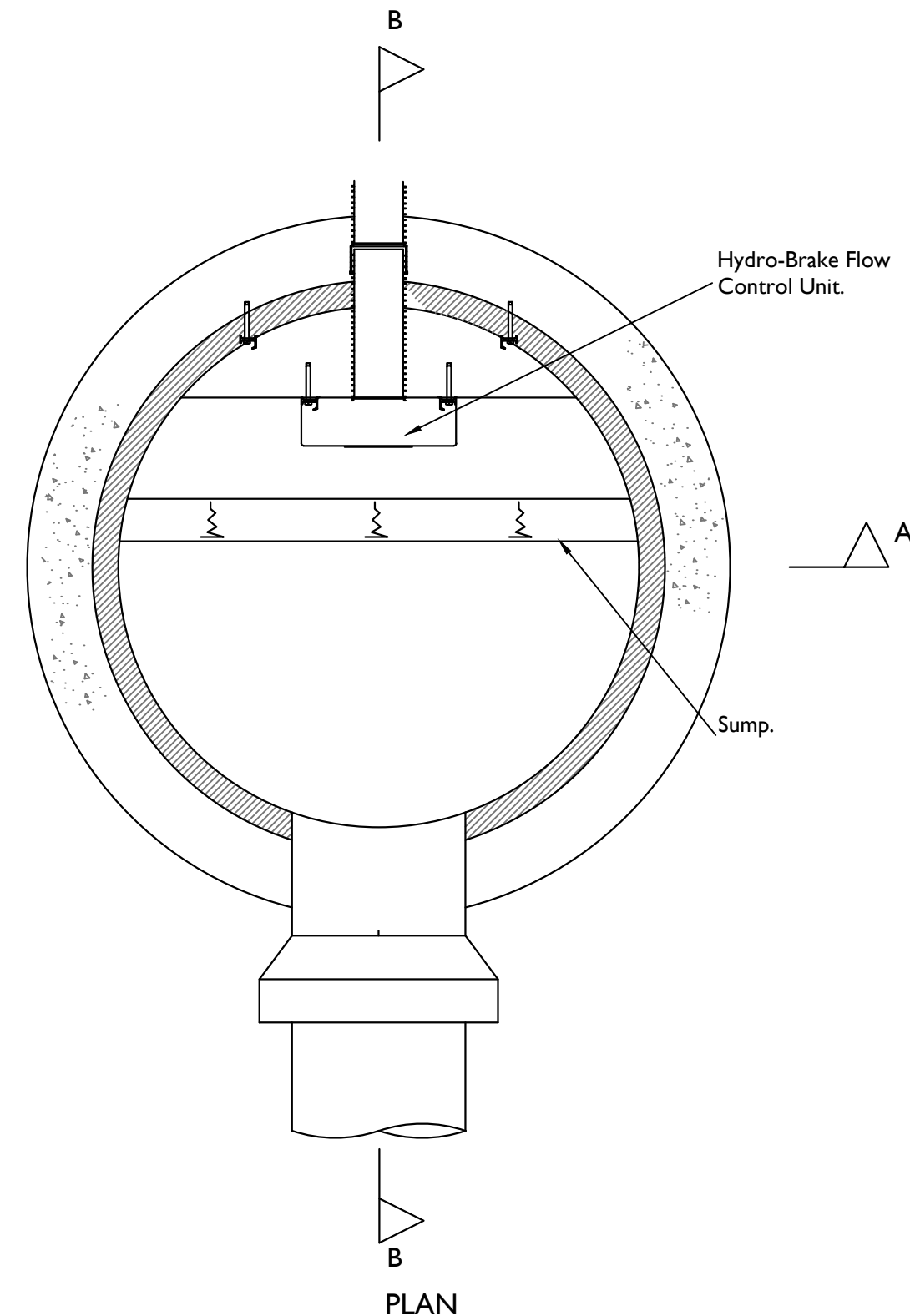




SECTION A-A



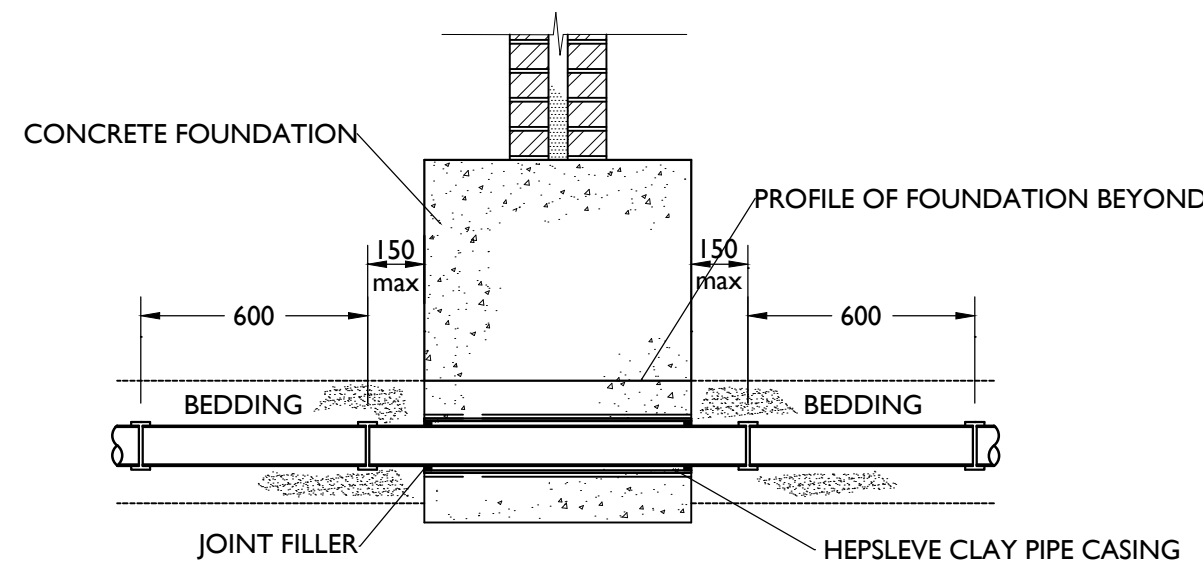
SECTION B-B



PLAN

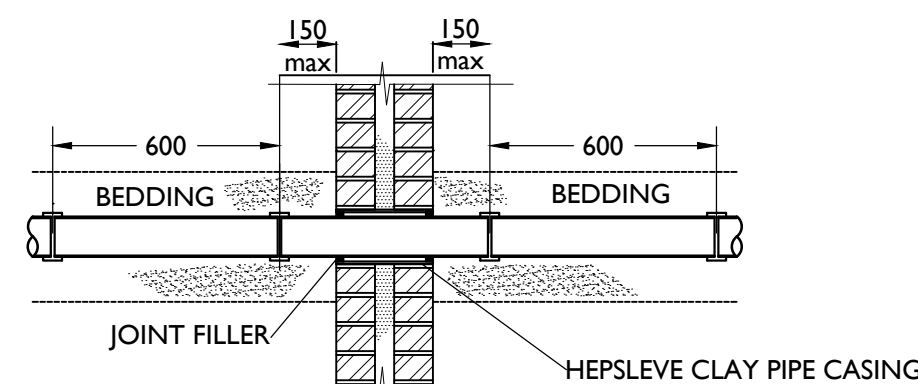
CHURCHILLS FLOW CONTROL MANHOLE

SCALE 1:20



DRAIN PASSING BELOW FOUNDATION

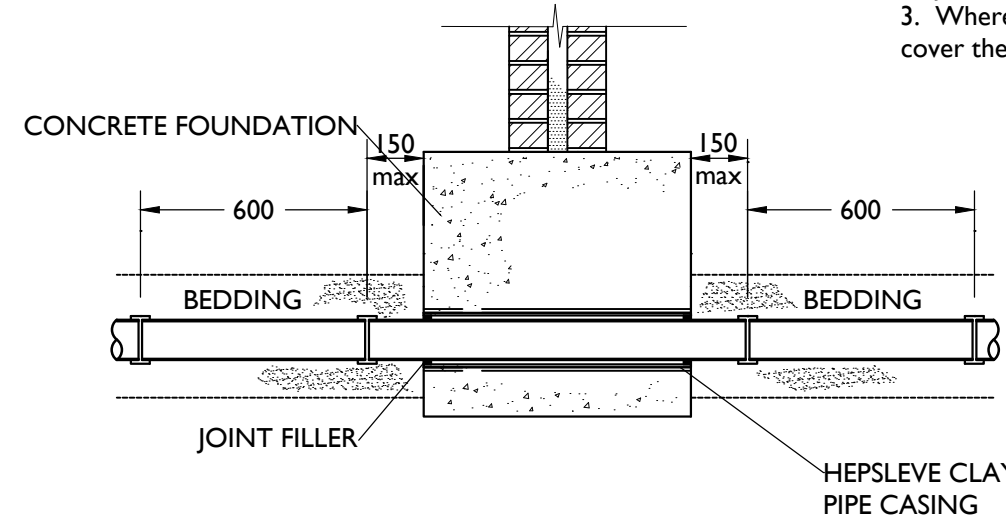
(Encase in concrete below footing)



DRAIN PASSING THROUGH WALLS

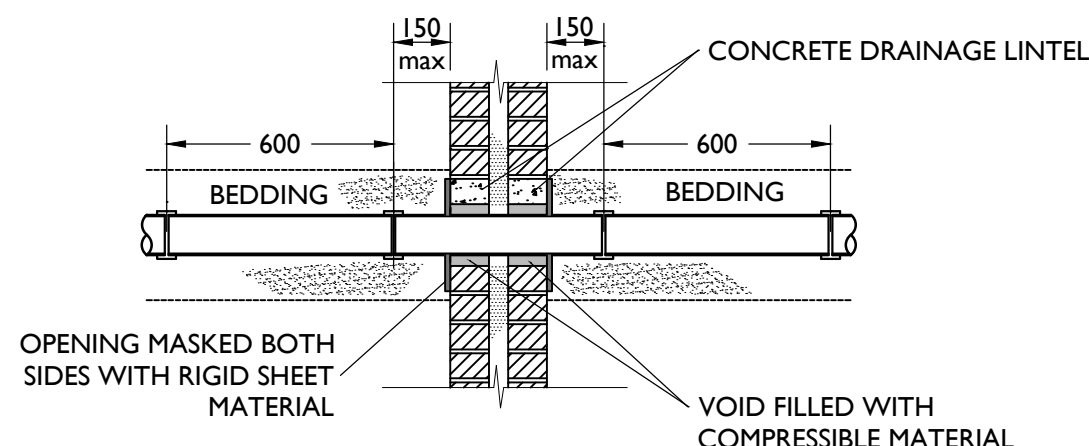
NOTES

1. When foundation is more than 450mm above drain do not encase in concrete.
2. Joint Filler to be plastazote or similarly approved.
3. Where drainage pipes under buildings have less than 300mm cover they shall have 150mm concrete encasement.

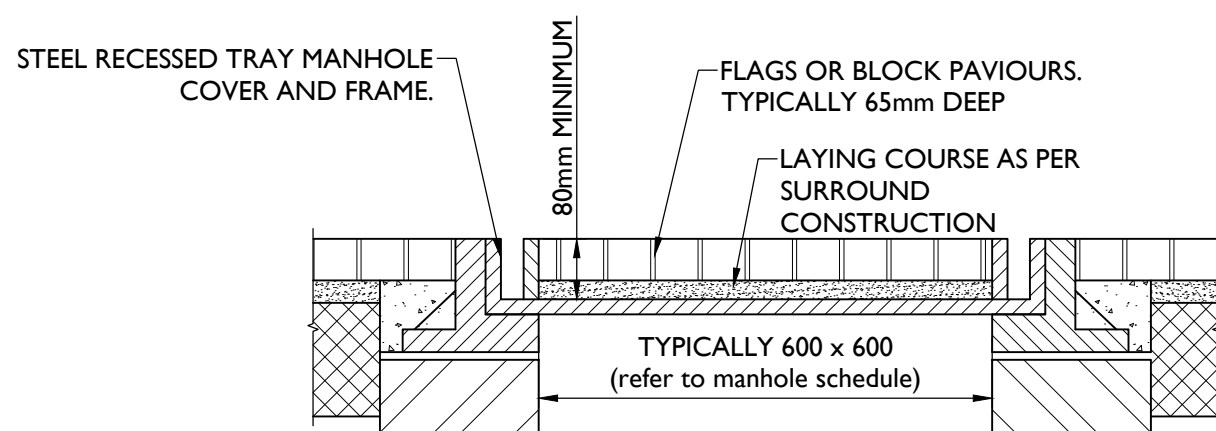


DRAIN PASSING THROUGH FOUNDATION

SCALE 1:20



DRAIN PASSING THROUGH WALL USING LINTEL



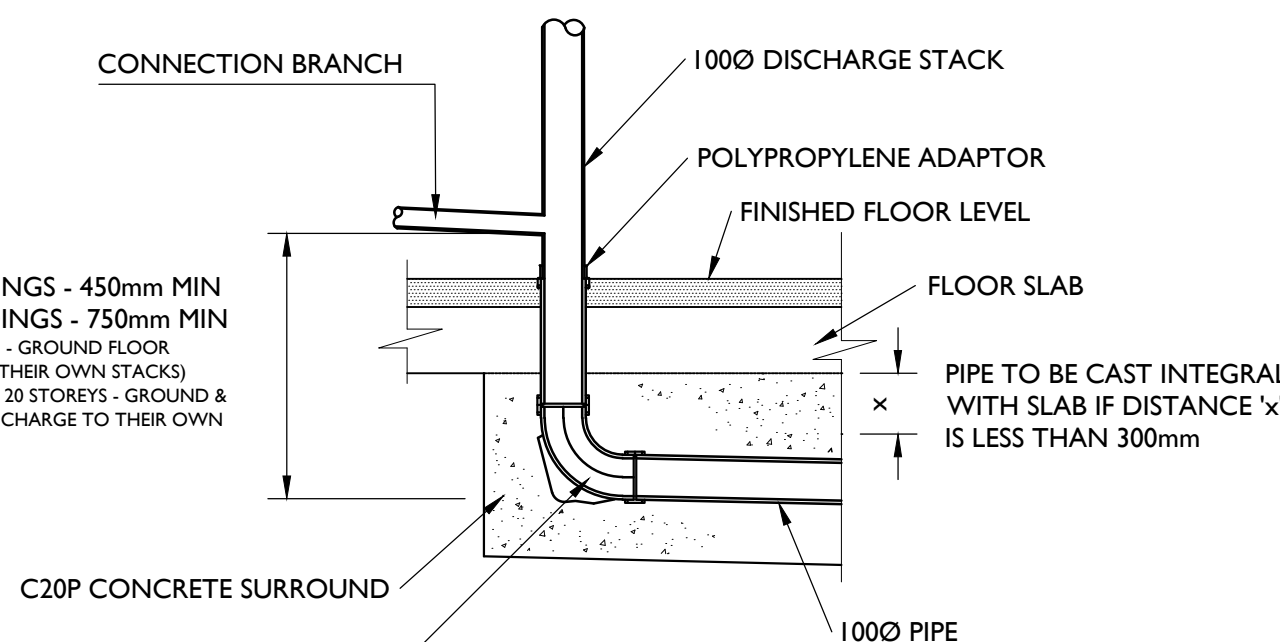
RECESSED MANHOLE COVER DETAIL

SCALE 1:10

STEEL RECESSED TRAY COVERS
ALL WELDS SHOULD COMPLY WITH BS4872
AND GALVANISING SHOULD BE TO BS729.
THE EQUIVALENT FACTA LOAD CLASS
SHOULD BE USED AS PER THE TABLE BELOW:

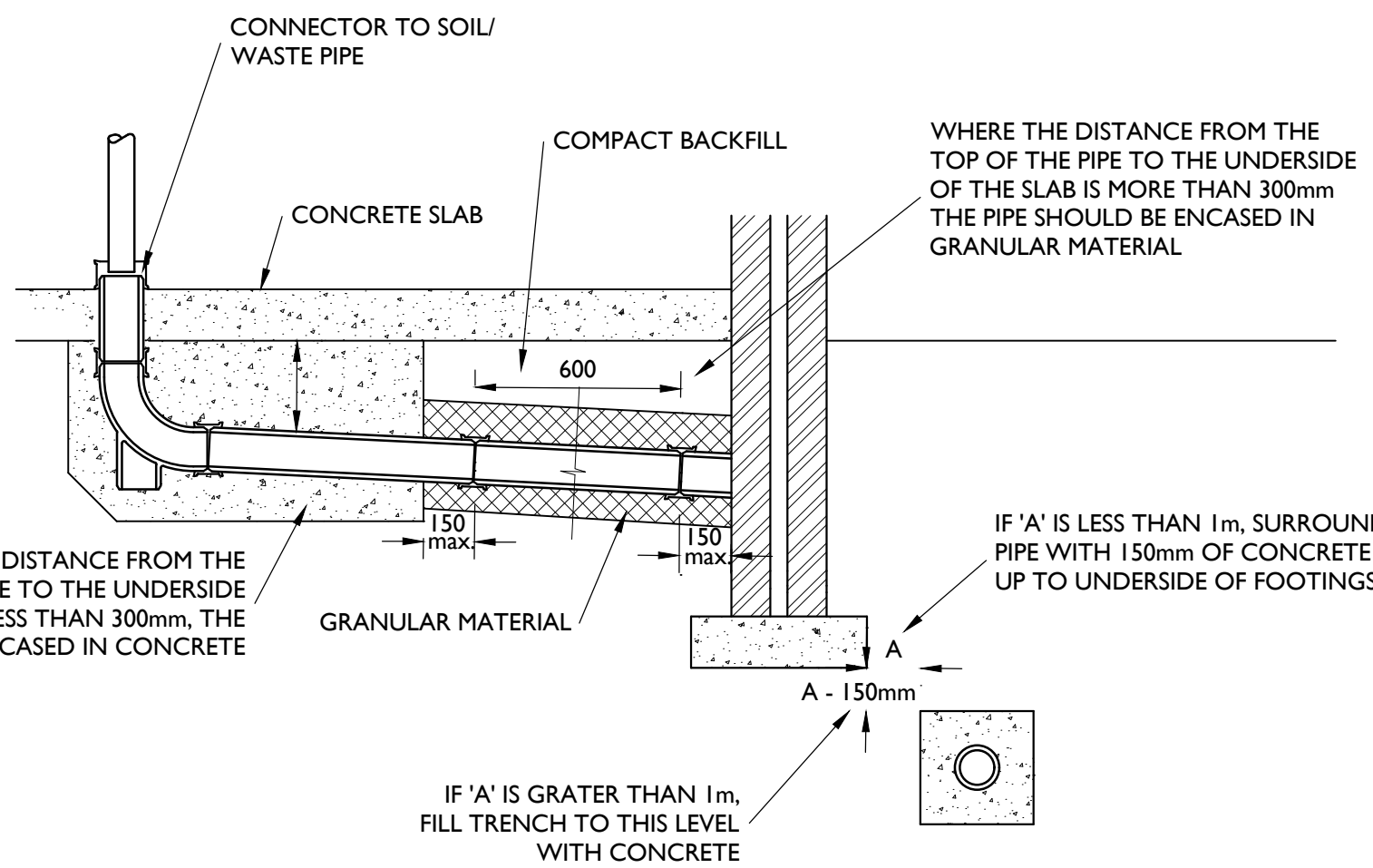
BS EN 124	FACTA
A15	CLASS A
B125	CLASS AA
C250	CLASS AAA
D400	CLASS B

CONTRACTOR IS TO COAT THE EXTERNAL
EDGES OF THE TRAY AND THE INTERNAL
FACES WITH A NON-SETTING LUBRICANT.



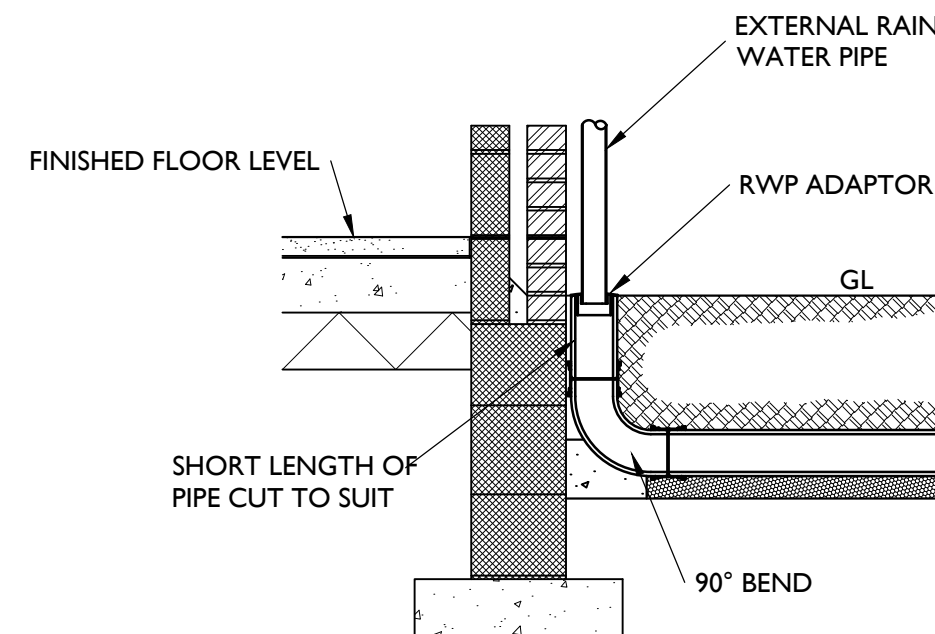
FOUL OUTLET CONNECTION DETAIL

SCALE 1:20



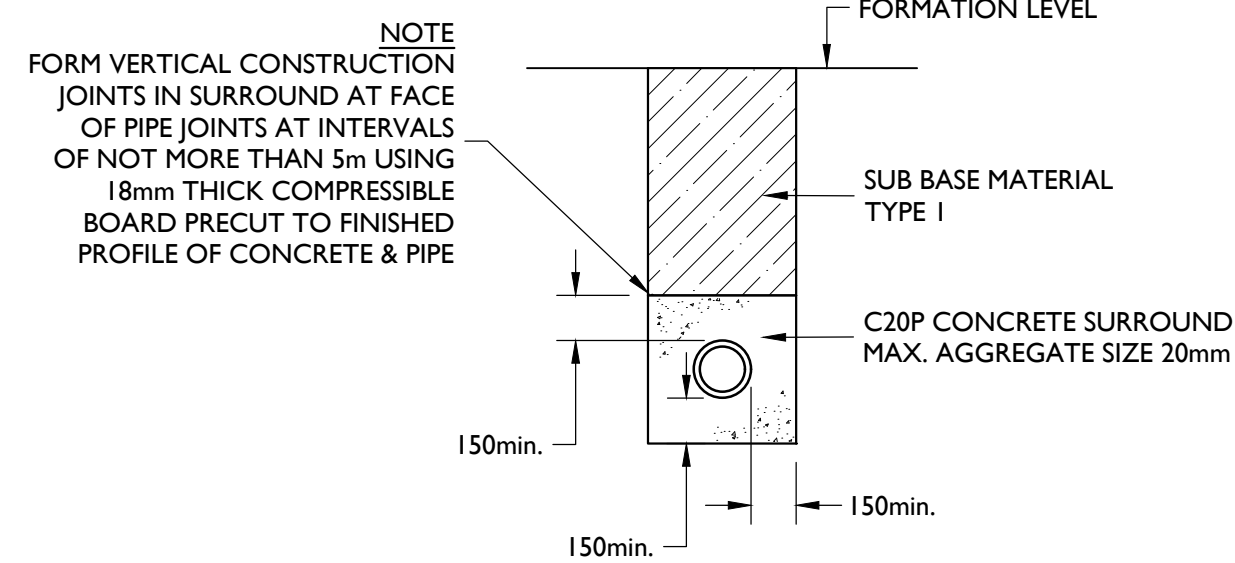
PIPE BEDDING - TYPE W & Y

SCALE 1:20



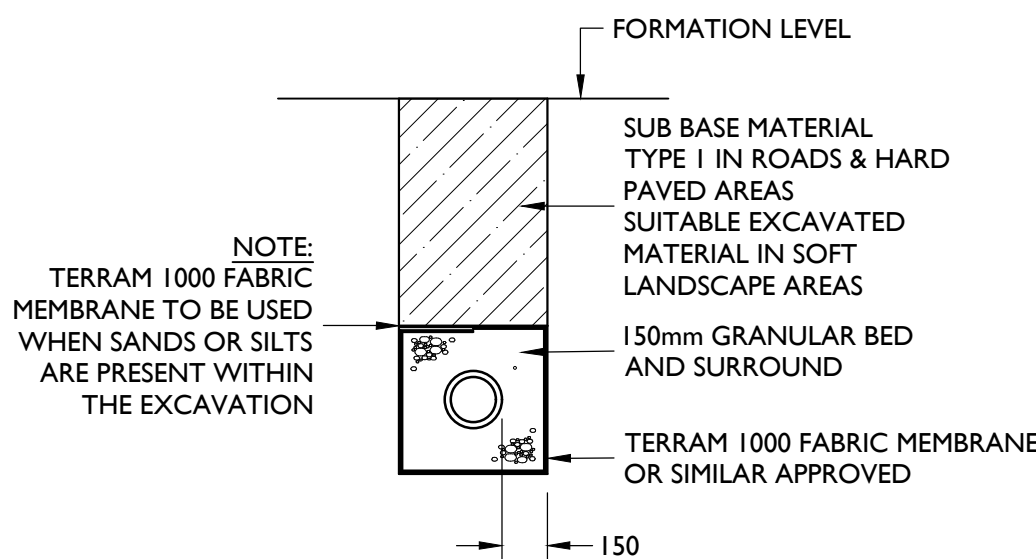
R.W.P. CONNECTION DETAIL

SCALE 1:20



PIPE BEDDING - TYPE Z

SCALE 1:25



PIPE BEDDING - TYPE S

SCALE 1:25

Flow Control Notes

(Type B Manhole):

1. Maximum depth from cover level to soffit of pipe 3.0m.
2. Safety chain to be used where sewer diameter exceeds 600mm.
3. The centre line of the manhole is not necessarily co-incidental with the centre line of the main pipe run.
4. Sulphate resisting cement and concrete products to be used throughout.
5. Works to be carried out in strict accordance with 'Sewers For Adoption 7th Edition'.
6. Control Chamber:
The chamber shall be of suitable size, type and construction. It shall include an emergency drain down pipe in addition to the controlled outlet pipe. A suitable drain valve must be provided to close the drain down pipe.
7. Flow Control Unit:
The flow control device shall be supplied by Hydro-Brake International or equivalent approved by the Engineer.
8. A water tight rodding/access door shall be provided on the upstream end of the flow control unit. This door should be held firmly closed by a minimum of three stainless steel bolts or studs to prevent leakage or accidental opening.

NOTES

1. ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.
2. CONSTRUCTION AND TESTING OF DRAINS AND SEWERS TO COMPLY WITH BS EN 1610. CONTRACTOR SHALL NOTE THAT TOLERANCES OF + OR - 5% OF THE PIPES INTERNAL DIAMETER MUST BE ACHIEVED UP TO A MAXIMUM OF 20mm
3. FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.
4. PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917
5. POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.
6. BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.
7. CLAY PIPES TO COMPLY TO BS EN 295
8. CONCRETE PIPES TO COMPLY TO BS EN 1916
9. TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.
10. PLASTIC PIPE ALTERNATIVES
IN NON-AGGRESSIVE SOIL CONDITIONS PLASTIC PIPE ALTERNATIVES WILL BE DEEMED ACCEPTABLE. IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS 4660 - THE FOLLOWING STANDARDS WILL BE REQUIRED:

DRAINAGE CONNECTIONS OF LESS THAN 1500 SHALL BE SOLID WALL uPVC PIPES COMPLYING WITH BS EN 1401-1

PIPE SIZES 150-9000 (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WIS 4-35-01

PIPE SIZES 150-9000 (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.

THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PLASTIC PRODUCTS FOR APPROVAL BY THE ENGINEER.

11. THE CONTRACTOR SHALL ALSO NOTE THAT CONNECTIONS TO PUBLIC SEWERS & MATERIALS USED IS SUBJECT TO AGREEMENT WITH THE ADOPTING AUTHORITY AND THE CONTRACTOR SHALL THEREFORE ASSUME THAT 'TRADITIONAL' MATERIALS MUST BE USED UNLESS EXPRESSLY INFORMED OTHERWISE.

12. MOULDED PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 75mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

13. MOULDED MINI PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 35mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE MINI PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

REV	DESCRIPTION	BY	CHK	APR	DATE
-	-	-	-	-	-



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PURPOSE OF ISSUE	PRELIMINARY	STATUS	P
PROJECT	FORMER GREENFINCH PUBLIC HOUSE LAPWING LANE DIDSURY	TITLE	DRAINAGE SCHEME CONSTRUCTION DETAILS 2
CLIENT	Churchill Retirement Living	DRAWN BY	RH
		CHECKED BY	MM
		APPROVED BY	JP
DATE	31.03.2026	SCALE (@ A1)	As Shown
		PROJECT NUMBER	90023
DRAWING NUMBER	0606	REV	P01