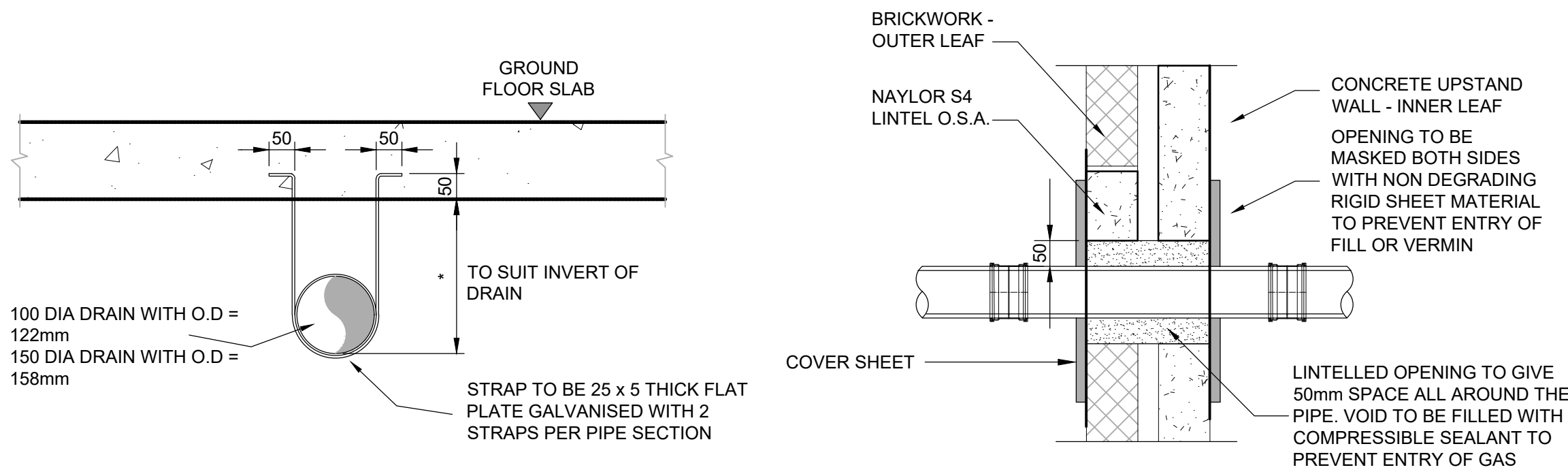
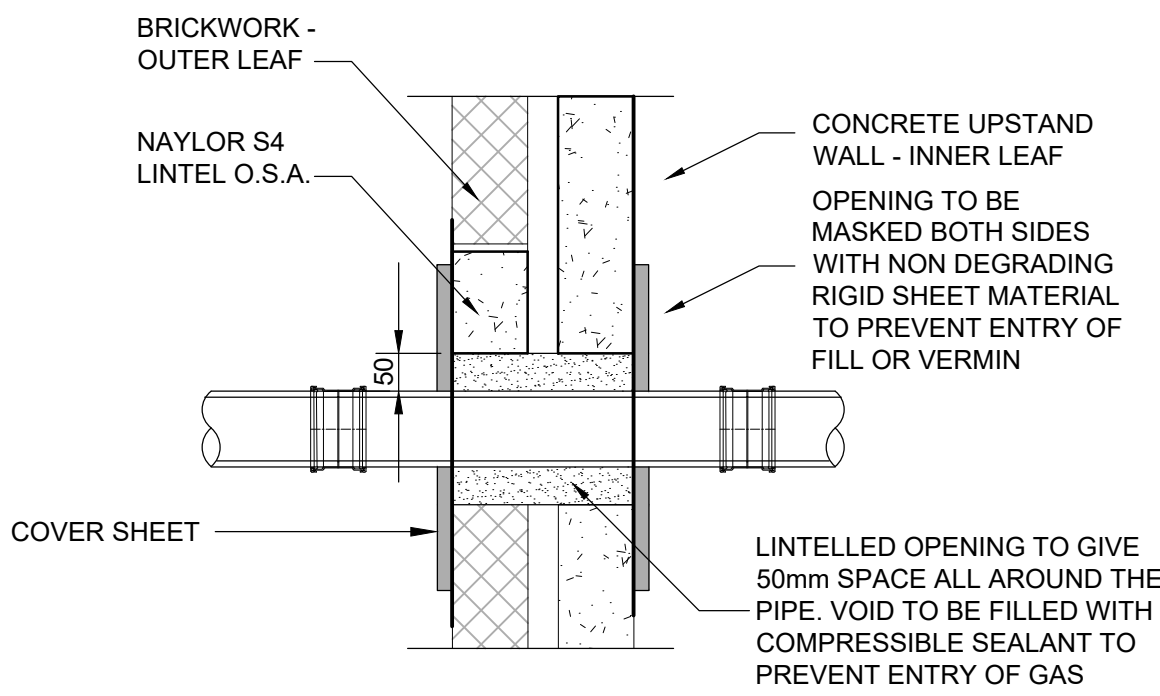
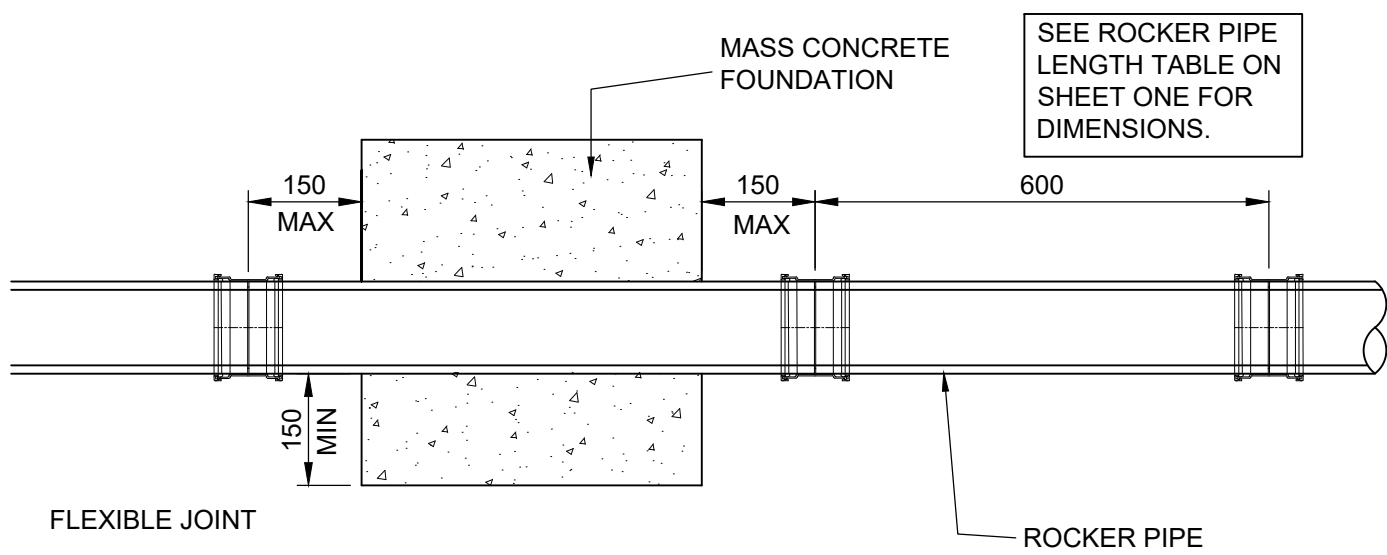




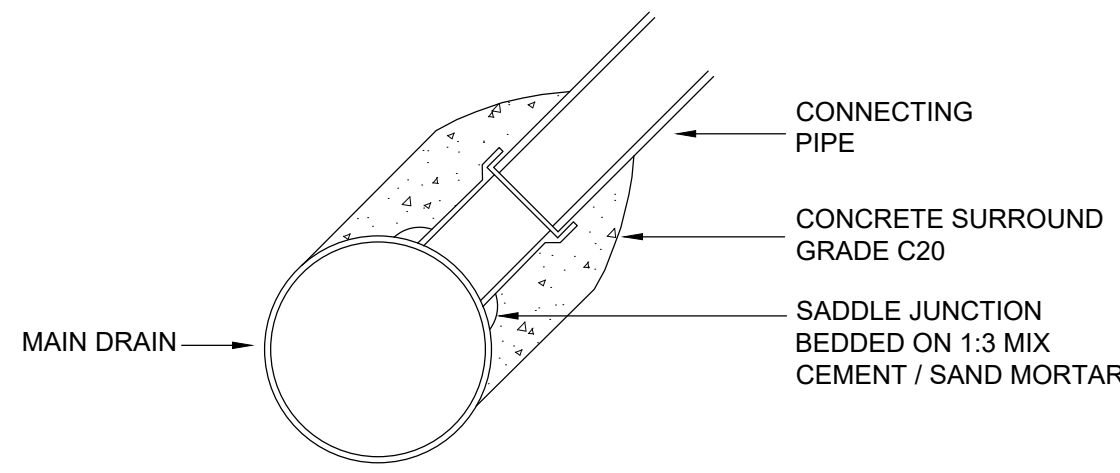
TYPICAL DETAIL OF PIPE SUPPORT BELOW
SUSPENDED FLOOR SITUATIONS
SCALE 1:10



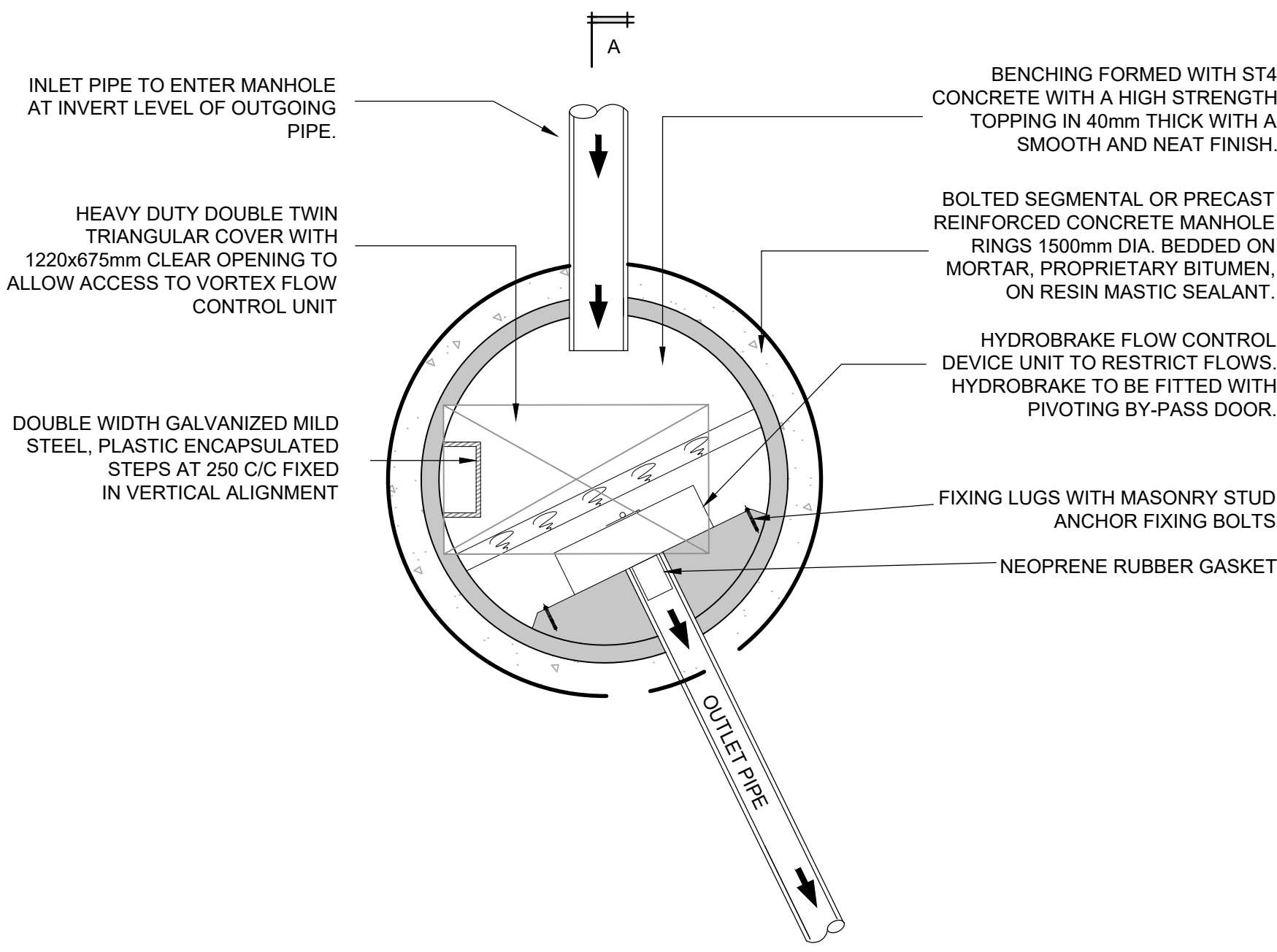
TYPICAL WALL PENETRATION DETAIL
SCALE 1:10



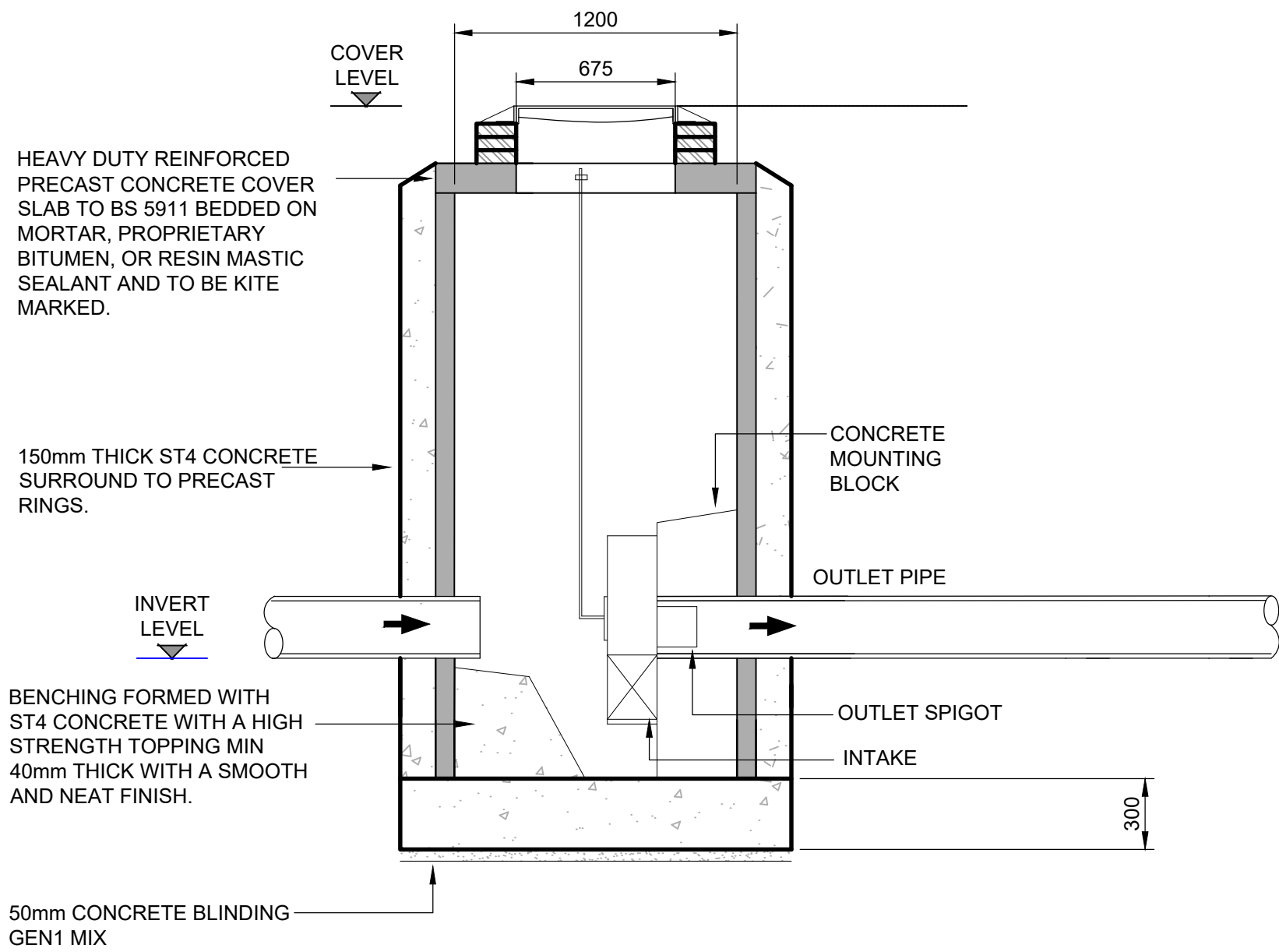
TYPICAL FOUNDATION PENETRATION DETAIL
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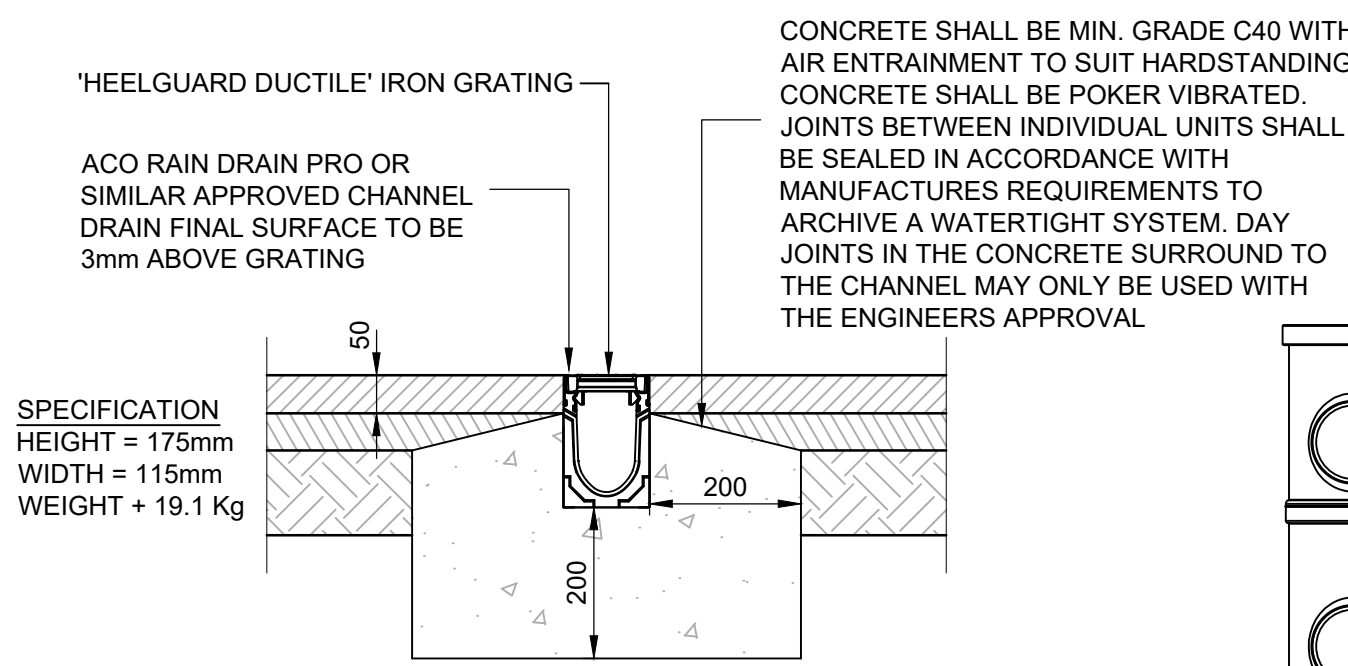
SADDLE CONNECTION
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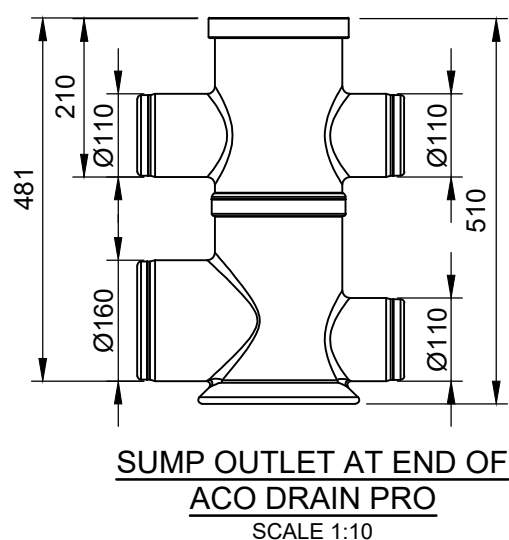
TYPICAL HYDROBRAKE CHAMBER
SCALE 1:25



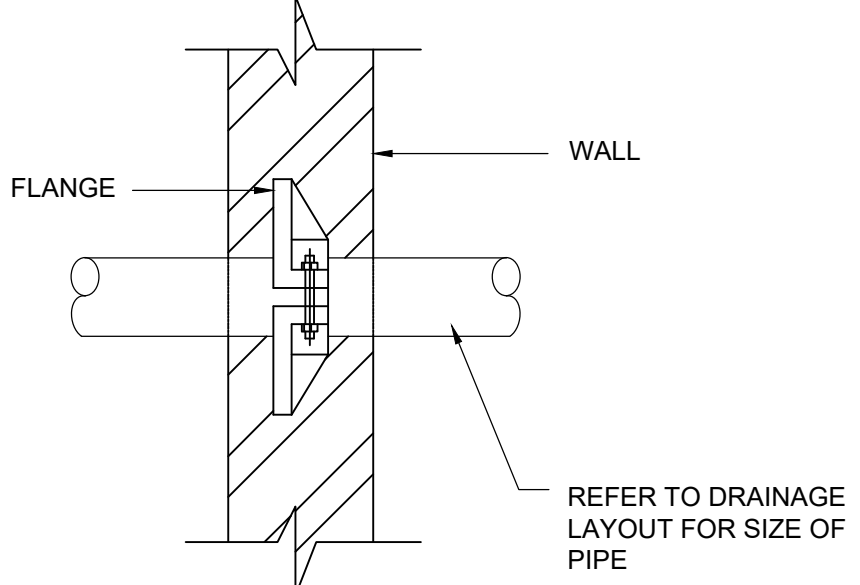
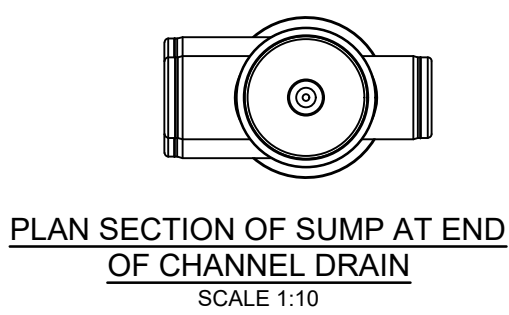
SECTION A-A
SCALE 1:25



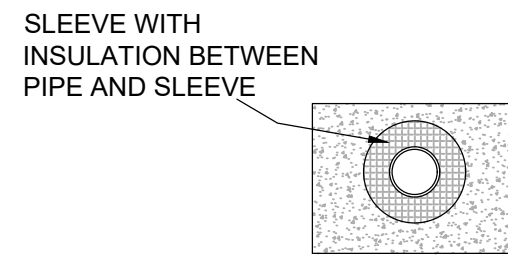
CHANNEL DRAIN
SCALE 1:10



ELEVATION OF SUMP
SCALE 1:10



PUDDLE FLANGE DETAIL



TYPICAL PENERTATION USING SLEEVE

Notes

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATIONS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE. DIMENSIONS MUST NOT BE SCALED FROM THIS DRAWING. ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES, UNLESS NOTED OTHERWISE

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS
- FOR DETAILS OF DEPTHS, NUMBER OF BRANCHES, AND PIPE SIZES REFER TO DRAINAGE PLANS OR SCHEDULE.
- FOR TYPES OF COVER AND FRAMES SUITABLE FOR THESE MANHOLES SEE DRAINAGE PLANS OR SCHEDULES.
- DIAMETER OF CONCRETE MANHOLE. RINGS SHALL BE AS SHOWN ON THE DRAWINGS AND/OR MANHOLE SCHEDULE
- WHEN DEPTH OF COVER LEVEL TO TOP OF BENCHING EXCEEDS 900mm STEP IRONS TO BS EN 1301 TO BE PROVIDED.
- INSITU MASS CONCRETE TO BE GEN3 STRENGTH CLASS C16/20. USE OF CEMENT REPLACEMENT ARE PERMITTED SUBJECT TO APPROVAL BY ENGINEER
- COVER SLABS & ALL REINFORCED CONCRETE TO BE RC25 STRENGTH CLASS C20/25. USE OF CEMENT REPLACEMENT ARE PERMITTED SUBJECT TO APPROVAL BY ENGINEER
- BELOW GROUND CONCRETE TO BE:MADE GROUND: DS-2 / AC-2ALLUVIUM SOILS: DS1 / AC-4zGLACIAL TILL: DS-1 / AC-1
- THE COVER FRAME SHALL BE BEDDED ON 1 TO 3 COURSES AS NECESSARY OF CLASS B ENGINEERING BRICKS & HAUNCHED IN CEMENT MORTAR 1:3
- BENCHING SHALL BE FORMED IN CONCRETE TOWELED SMOOTH TO A GRADIENT OF BETWEEN 1:10 AND 1:30.
- ALL PRECAST CONCRETE COMPONENTS SHALL BE IN ACCORDANCE WITH BS5911 PART 100.
- RINGS SHALL BE JOINED BY BUTTERING WITH WATERPROOF MASTIC JOINT (TOSSTRIP) MANUFACTURED BY WINN & COLES co. LTD JOINTS SHALL BE NEATLY FINISHED BOTH INTERNALLY & EXTERNALLY.
- CONCRETE BASES TO MANHOLES SHALL BE 150mm MIN FOR MANHOLES UP TO 1.8m DEEP 225mm MIN FOR MANHOLES BETWEEN 1.8m & 6.0m & 450mm FOR MANHOLES EXCEEDING 6.0m DEEP. BASES TO HAVE LAYER OF A193 MESH MANHOLES GREATER THAN 1400x900 (INT) OR 1800 (INT) TO HAVE REINFORCEMENT BARS TO DETAILS PROVIDED BY STRUCTURAL ENGINEER.
- ALL PRECAST CONCRETE MANHOLES (SHALLOW TO MEDIUM DEPTH) TO BE SURROUNDED WITH A MIN OF 150mm OF CONCRETE
- SINGLE SEAL MANHOLE COVER & FRAMES TO BE PROVIDED ON ALL FOUL & SURFACE WATER DRAINAGE (EXTERNALLY ONLY). DOUBLE SEAL MANHOLE COVER & FRAMES TO BE PROVIDED ON FOUL & SURFACE WATER DRAINAGE (INTERNALLY ONLY). ALL MANHOLE COVERS ARE TO BE CAST IRON TO BS 497 AND SHALL BE RECTANGULAR OR SQUARE & BE HEAVY DUTY WHERE LOCATED IN ROAD WAYS & MEDIUM DUTY ELSEWHERE UNLESS OTHERWISE INDICATED ON SCHEDULE.
- WHERE SHALLOW (MAX OF 0.7m DEEP) PRE-CAST CONCRETE MANHOLES ARE POSITIONED UNDER MAIN ROADS OR ARE POSITIONED SUBJECT TO VEHICULAR TRAFFIC THE MANHOLE IS TO BE SURROUNDED WITH A MIN OF 225mm CONCRETE.
- BRICKS FOR MANHOLE CONSTRUCTION TO BE CLASS B ENGINEERING BRICKS TO BS 3921 IN ENGLISH BOND SET IN CEMENT MORTAR 1:3.
- FLEXIBLE JOINTS ON PIPE WORK TO BE MADE WITHIN 150mm & ROCKER PIPE LENGTH FROM INSPECTION CHAMBER/MANHOLE CHAMBER/FOOTING/GROUND BEAM OR WALL.
- 150mm DEEP TOE HOLES TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 6000 FOR ACCESS TO INVERT. HOLES SHOULD BE STAGGERED HORIZONTALLY BY 150mm EITHER SIDE OF THE CL AND SPACED VERTICALLY SO THAT THE MAX. STEP WILL BE 300mm
- COVER AND FRAME TO BE CLASS D400 TO BS EN 124 WITH A 150mm DEEP FRAME IN ROADS AND CLASS B 125 IN OPEN SPACE WITH A 900mm CLEAR OPENING. ALL COVERS TO BE KITEMARKED WITH MANUFACTURERS NAME CLEARLY VISIBLE.
- MANHOLE STEPS SHOULD BE BUILT INTO THE WALL AT REGULAR HEIGHT INTERVALS OF BETWEEN 230mm AND 300mm. UNLESS DOUBLE STEPS (RUNG IRONS) THEY SHOULD BE STAGGERED IN TWO VERTICAL RUNS AT APPROX. 300mm C/C HORIZONTALLY. THE TOP STEP SHOULD BE NOT MORE THAN 675mm BELOW THE SURFACE AND THE LOWEST NOT MORE THAN 300mm ABOVE THE BENCHING.

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ISO 9001:2015
CERTIFIED

Client

Architect

DAY ARCHITECTURAL

Project

THE FAIRFAX, MANCHESTER

Title

DRAINAGE STANDARD DETAILS
SHEET 3

Scale	Drawn	Revision
1:200 @ A1	DAB	
Date	Checked	P1
FEB 2022	GB	

Drawing Ref :
Project no\Originator\Volume\level\Type\Role\Number

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