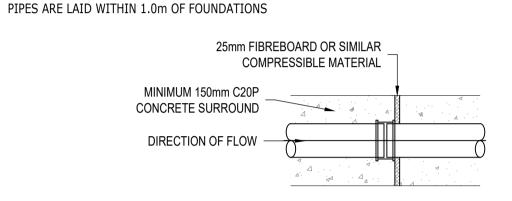
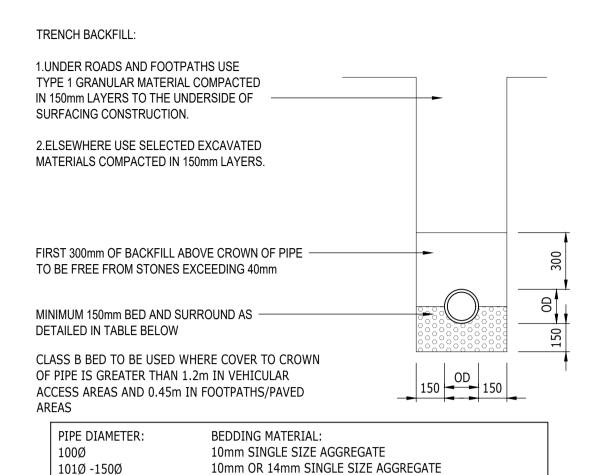
CLASS Z CONCRETE BED AND SURROUND

TRENCH BACKFILL: 1. UNDER ROADS AND FOOTPATHS USE TYPE 1 GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO THE UNDERSIDE OF SURFACING CONSTRUCTION. 2. ELSEWHERE USE SELECTED EXCAVATED MATERIALS COMPACTED IN 150mm LAYERS CONCRETE BED AND SURROUND SHALL BE INTERUPTED AT EACH PIPE JOINT USING 25mm THICK FIBRE BOARD TO THE FULL AREA OF THE CONCRETE - SEE DETAIL BELOW USE CLASS Z CONCRETE BED AND SURROUND UNDER ALL FOUNDATIONS AND FLOOR SLABS, WHERE COVER TO CROWN OF PIPE IS LESS THAN 0.75m IN VEHICULAR ACCESS AREAS, AND WHERE



CLASS B GRANULAR BED AND SURROUND

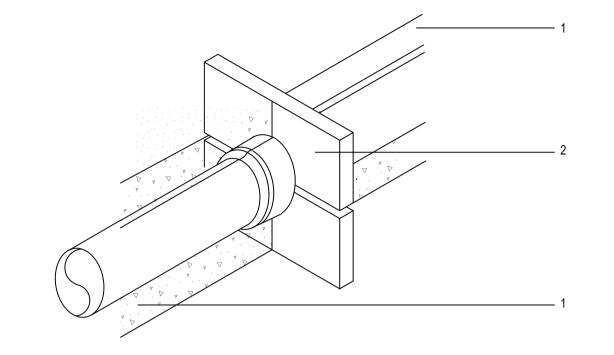


10mm, 14mm OR 20mm SINGLE SIZE AGGREGATE

10mm, 14mm, 20mm OR 40mm SINGLE SIZE CRUSHED ROCK

501Ø AND ABOVE THE ABOVE MATERIALS ARE FOR GUIDANCE OTHER BEDDING MATERIALS CAN BE USED IN ACCORDANCE WITH THE PIPE MANUFACTURES RECOMMENDATIONS I.E. SINTERED PULVERISED FUEL ASH AND AIR COOLED BLAST FURNACE SLAGS

DRAIN WITH CONCRETE SURROUND

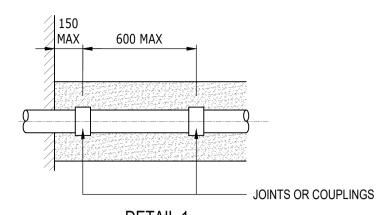


DESCRIPTION:

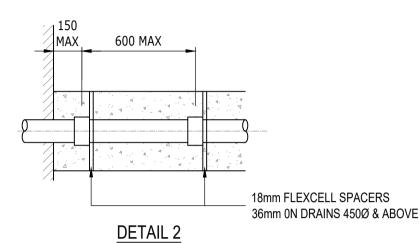
- 1 150mm MINIMUM THICK CONCRETE SURROUND.
- 2 COMPRESSIBLE MATERIAL EITHER FIBRE BOARD OR POLYSTYRENE 18mm MINIMUM THICKNESS

ROCKER PIPE ASSEMBLY

THESE DETAILS APPLY TO ALL DRAINS AT FIXED POINTS I.E. AT FACE OF STRUCTURE, CHAMBERS ETC.



DETAIL 1 DRAIN WITH GRANULAR SURROUND

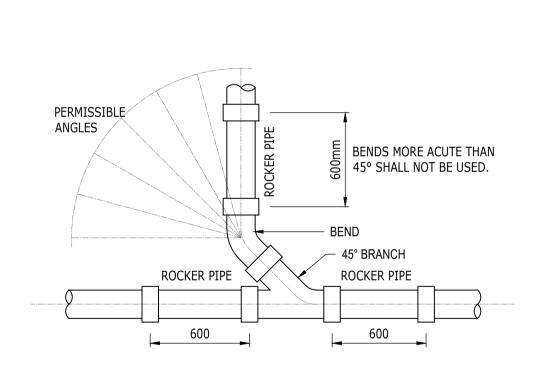


DRAIN WITH CONCRETE SURROUND

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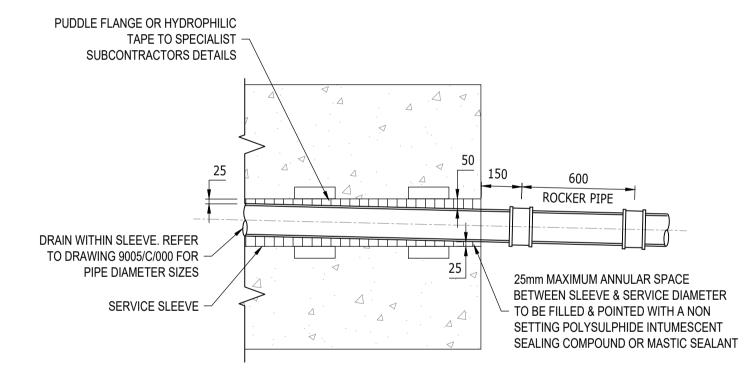
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- DRAWINGS. THIS IS NOT AN INSTALLATION DRAWING NOR A
- CO-ORDINATION DRAWING. REFER TO RAMBOLL DRAWING
- BAR-RAM-ZZ-XX-DR-CD-00100 FOR THE DRAINAGE
- THE DESIGN AND CONSTRUCTION OF MANHOLES WILL NEED TO COMPLY WITH THE RELEVANT UNDERTAKER'S SAFETY POLICY.

OBLIQUE JUNCTION ARRANGEMENT

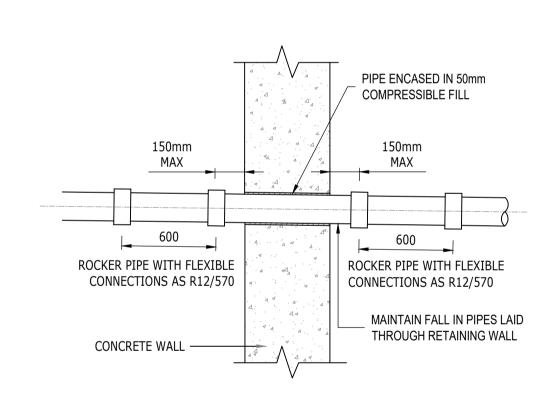


INDICATIVE DRAINAGE FOUNDATION PENETRATION DETAIL

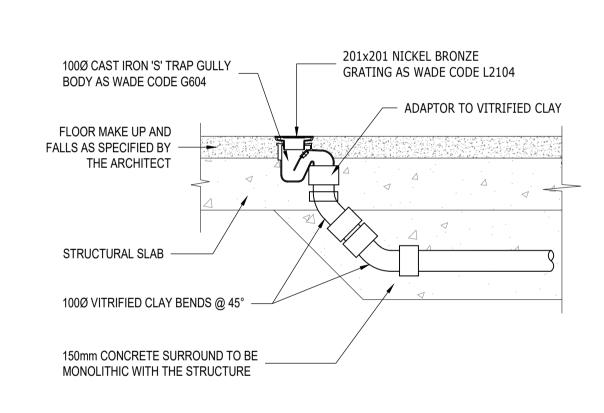
151Ø - 500Ø



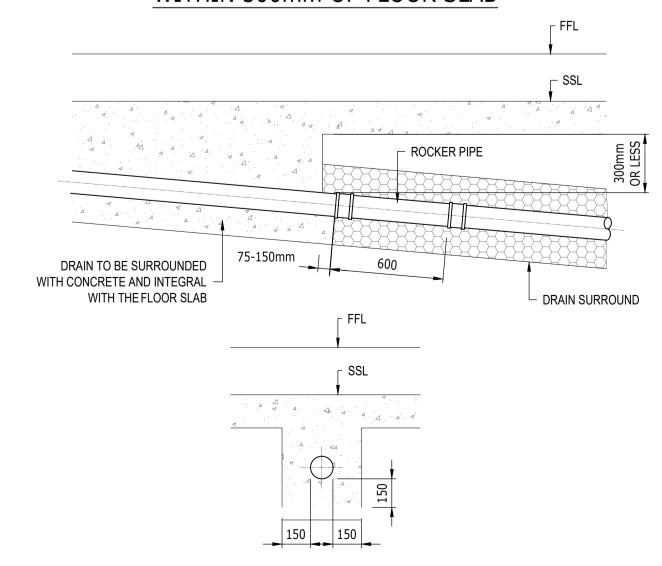
PIPE PENETRATION THROUGH A CONCRETE WALL



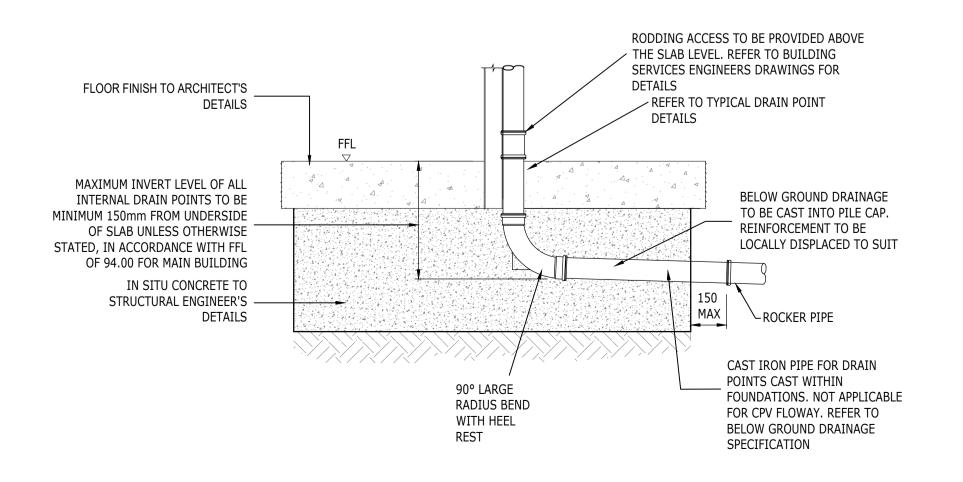
TYPICAL TRAPPED FLOOR GULLY (FG)



CLASS Y CONCRETE SURROUND WITHIN 300mm OF FLOOR SLAB



TYPICAL DRAIN POINT DETAIL GOING THROUGH IN SITU FOUNDATION (THROUGH GROUND-BEARING STRUCTURE)



10.03 EA NH 2023 DOC T2 ISSUED FOR TENDER 19.02 EA NH 2023 DOC I ISSUED FOR TENDER Date By Ap Rev Description

TENDER

ONSIDE - BARNSLEY YOUTH ZONE

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PROPOSED DRAINAGE DETAILS SHEET 1

Project No: 1620014415-004	Scale (@A1): NTS	Drawn: EA	Date: FEB 2023
Drawing No:			Rev:
BAR-RAM-ZZ-XX-DR-CD-00400			T2