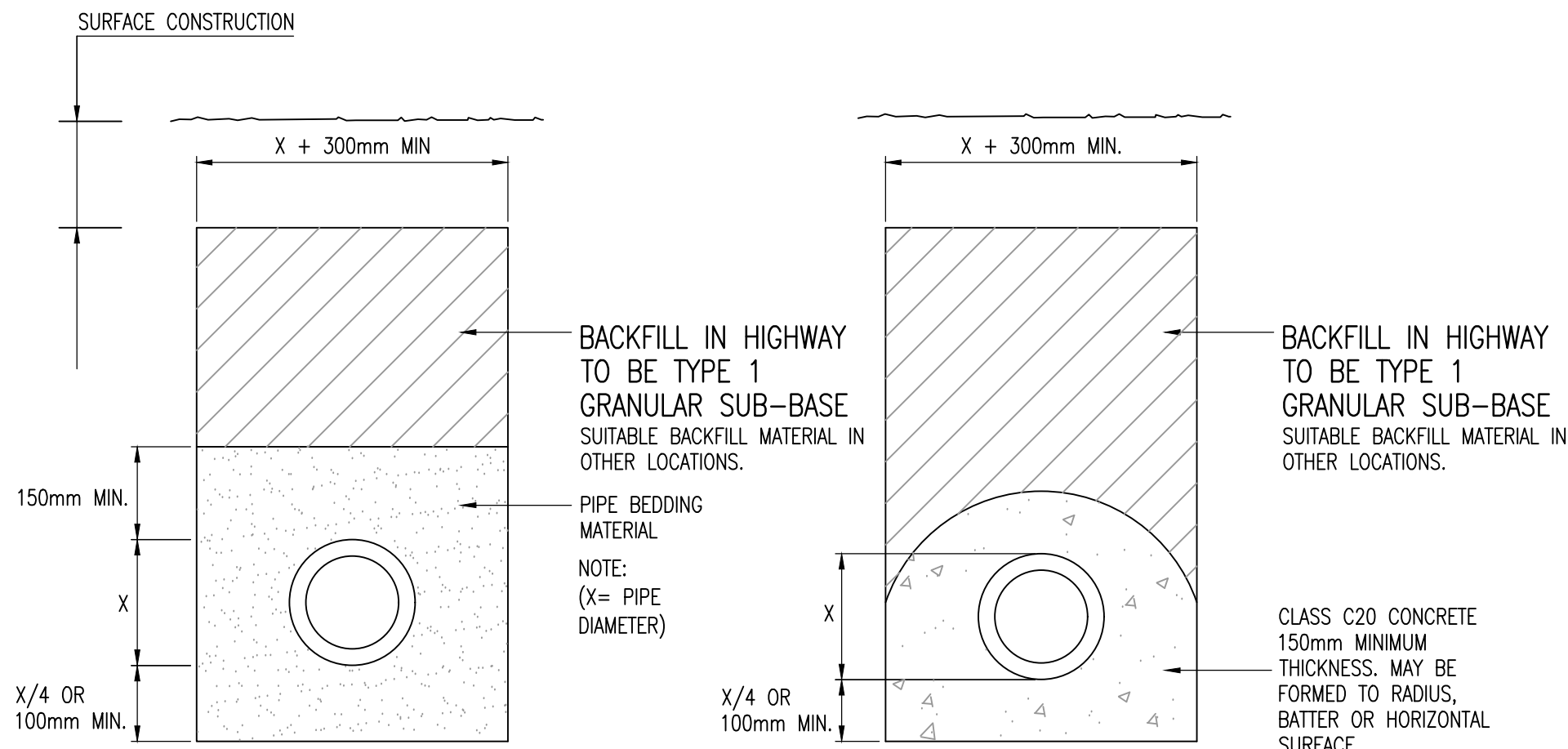




GRANULAR PIPE SURROUND DETAIL
CLASS 'S'
(1:10)

CONCRETE PIPE SURROUND DETAIL
CLASS 'Z'
(1:10)

GRANULAR MATERIAL	
DIA OF DRAIN	AGGREGATE
100	6mm SINGLE SIZE
150	10 OR 14mm SINGLE SIZE OR 14-5mm GRADED *
150-500	10, 14 OR 20mm SINGLE SIZE OR 20-5mm GRADED *
OVER 500	10, 14, 20 OR 40mm SINGLE SIZE OR 40-5mm GRADED *

* NON PREFERRED

NOTE	
1.	NO MECHANICAL COMPACTION WITHIN 300mm OF CROWN OF PIPE.
2.	DRAINAGE TRENCHES IN ROADS TO HAVE HIGHWAYS AGENCY SPECIFICATION FOR ROADS AND BRIDGE WORKS TYPE 1 GRANULAR MATERIAL.

LOCATION	COVER TO SOFFIT	BEDDING
ROADS.	>1.2m	CLASS 'S' GRANULAR BED AND SURROUND.
	<1.2m	CLASS 'Z' CONCRETE SURROUND.
NON- ADOPTABLE SEWERS BELOW CAR PARKING.	>0.9m	CLASS 'S' GRANULAR BED AND SURROUND.
	<0.9m	CLASS 'Z' CONCRETE SURROUND.
HARD AND SOFT LANDSCAPING.	>0.6m	CLASS 'S' GRANULAR BED AND SURROUND.
	<0.6m	CLASS 'Z' CONCRETE SURROUND.

NOTE
PROTECTION FROM SETTLEMENT
TAKEN FROM BUILDING REGULATIONS PART H

- WHERE THE TRENCH IS WITHIN 1m OF THE FOUNDATION THE TRENCH IS FILLED WITH CONCRETE UP TO THE LOWEST LEVEL OF THE FOUNDATION; OR
- WHERE THE TRENCH IS FURTHER THAN 1m FROM THE BUILDING, THE TRENCH IS FILLED WITH CONCRETE TO A LEVEL BELOW THE LOWEST LEVEL FOR THE BUILDING EQUAL TO THE DISTANCE FROM THE BUILDING, LESS 150mm.

TYPICAL PIPE BEDDING AND TRENCH DETAILS

NOTE: NO MECHANICAL COMPACTION WITHIN 300mm OF CROWN PIPE.

PLASTIC GRAVITY SEWER PIPE SPECIFICATION

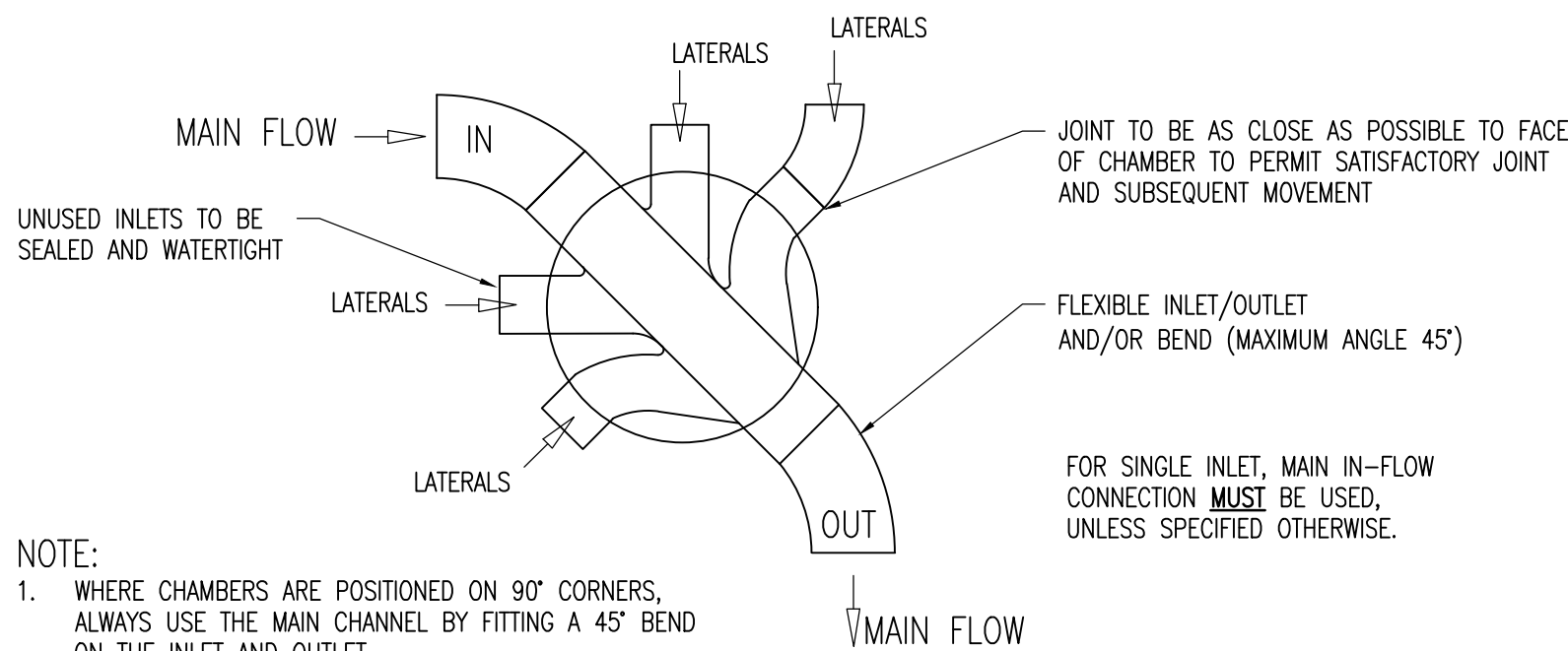
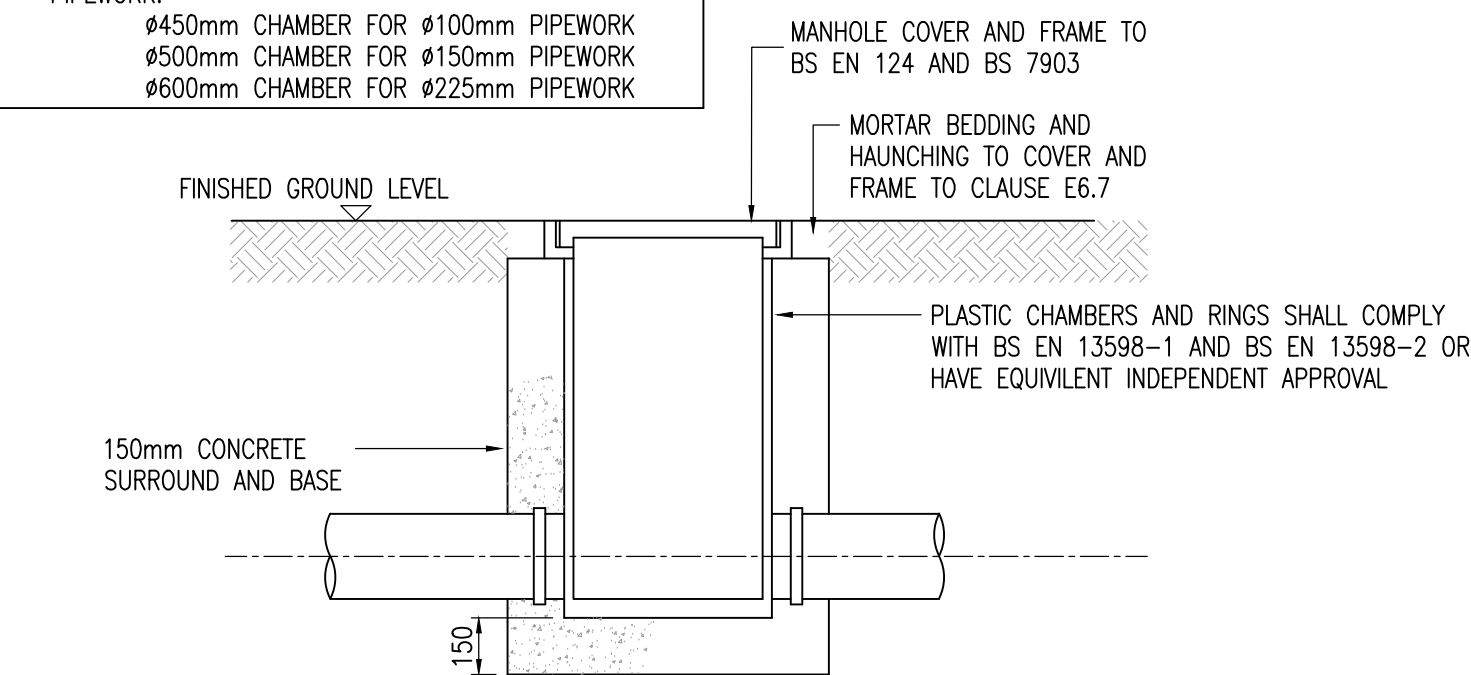
THERMOPLASTIC PIPE, JOINTS AND FITTINGS FOR GRAVITY SEWERS MUST COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 1401-1, BS EN 1852 AND BS EN 12666-1. BS EN 1295-1 GIVES GUIDANCE ON THE STRUCTURAL DESIGN OF UNDERGROUND NON-PRESSURE PVC-U PIPES.

STRUCTURED WALL PIPES AS FOLLOWS:

- OSMA ULTRARIB SYSTEM BY WAVIN PLASTICS LIMITED IN STIFFNESS CLASS SN8 BETWEEN 150mm AND 300mm DIAMETER.
- MARLEY TWINWALL SYSTEM BY MARLEY PLUMBING AND DRAINAGE IN STIFFNESS CLASS SN8 BETWEEN 150mm AND 300mm DIAMETER.
- UPONOR ULTRARIB SYSTEM BY UPONOR LIMITED IN STIFFNESS CLASS SN8 BETWEEN 150mm AND 300mm DIAMETER.
- POLYSEWER TWINWALL SYSTEM BY POLYPIPE BUILDING PRODUCTS LIMITED IN STIFFNESS CLASS SN8 BETWEEN 150mm AND 300mm DIAMETER.
- RIDGISEWER TWINWALL SYSTEM BY POLYPIPE CIVILS LIMITED IN STIFFNESS CLASS SN4 AND 8 BETWEEN 400mm AND 600mm DIAMETER AND IN STIFFNESS CLASS SN4 BETWEEN 750mm AND 900mm DIAMETER.

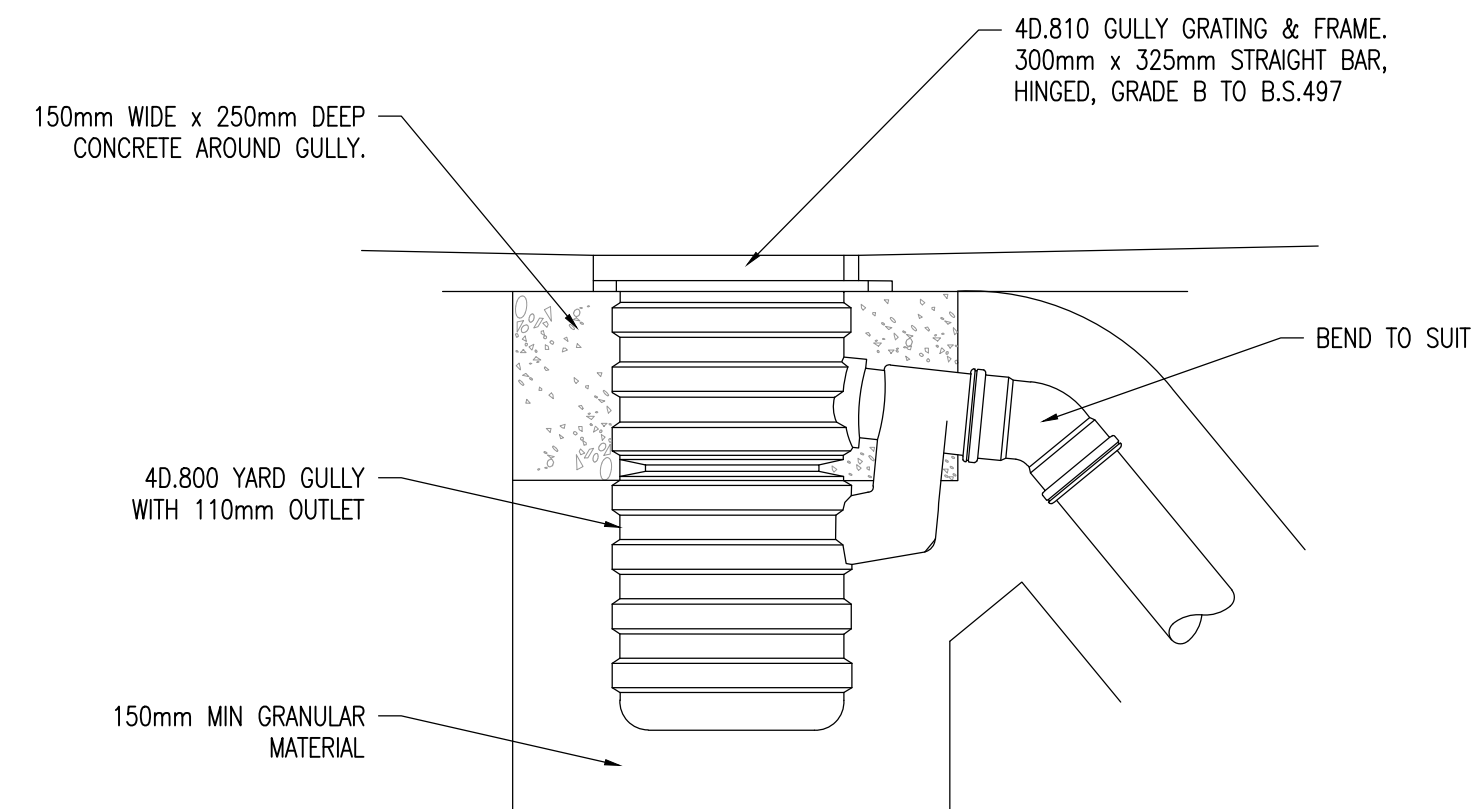
MAXIMUM ALLOWABLE PIPE LENGTH IS 3.0m

NOTE:
1. IN UNTRAFFICKED AREAS BASE AND SURROUND MAY BE SINGLE SIZED GRANULAR MATERIAL TO MATCH PIPE BEDDING.
2. MINIMUM RADIUS TO BE 500mm FOR A 100mm DIAMETER PIPE AND 600mm FOR A 150mm DIAMETER PIPE TO ALLOW ENTRY OF MAINTENANCE EQUIPMENT.
3. JOINTS BETWEEN BASE AND SHAFT AND SHAFT COMPONENTS TO BE FITTED WITH WATERTIGHT SEALS.
4. CHAMBER DIAMETER DIFFERS DEPENDING ON CONNECTING PIPEWORK:
ø450mm CHAMBER FOR ø100mm PIPEWORK
ø500mm CHAMBER FOR ø150mm PIPEWORK
ø600mm CHAMBER FOR ø225mm PIPEWORK

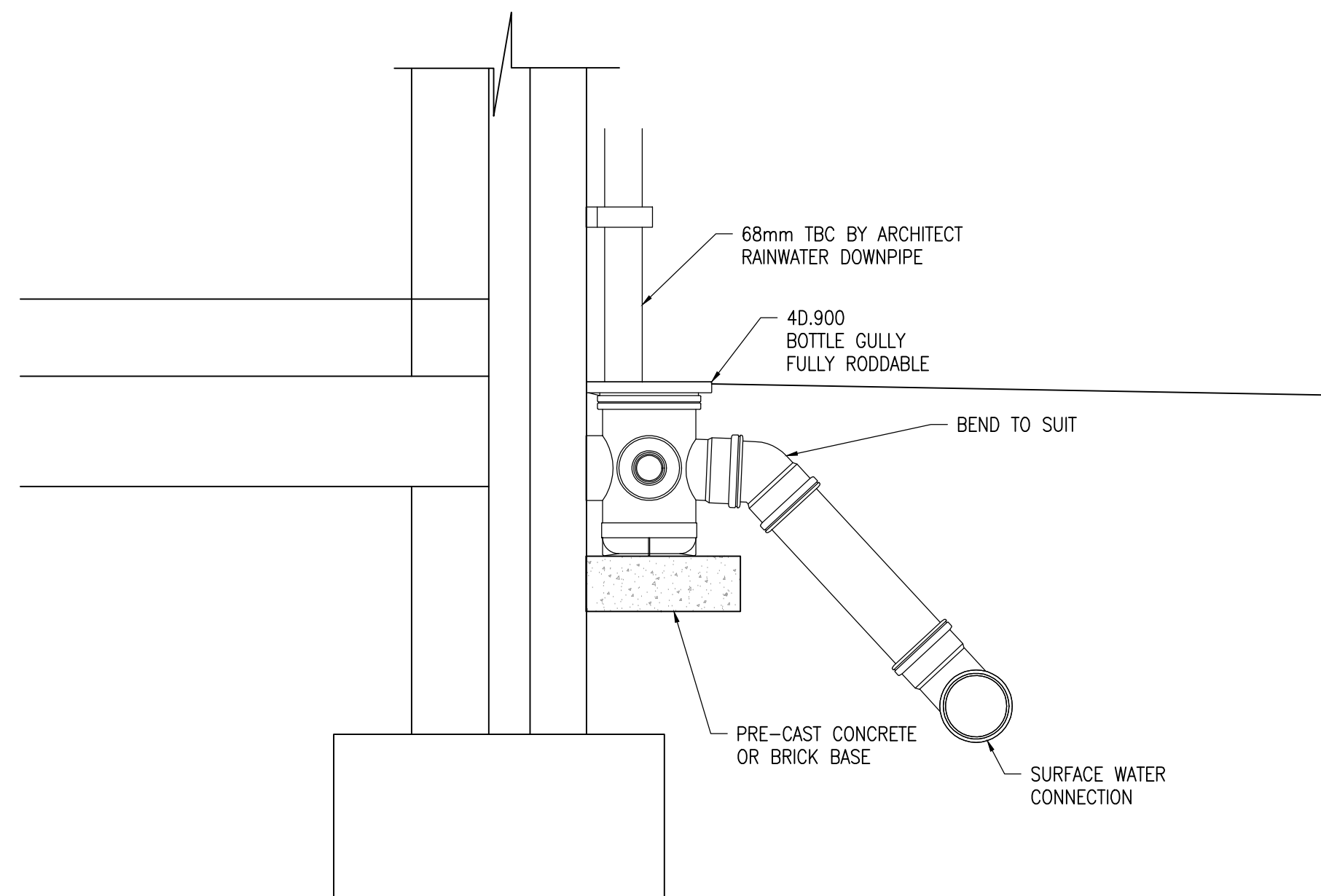


NOTE:
1. WHERE CHAMBERS ARE POSITIONED ON 90° CORNERS, ALWAYS USE THE MAIN CHANNEL BY FITTING A 45° BEND ON THE INLET AND OUTLET.
2. WHERE A BEND IS USED IMMEDIATELY OUTSIDE THE MANHOLE, THIS MAY BE USED AS THE ROCKER PIPE.
3. HALF CHANNEL UPSTAND PROVIDED FOR LATERAL INLETS AT DESIGN STAGE FOR PREFORMED BASES, CONTRACTOR MUST INFORM ENGINEER IF THIS DIFFERS.

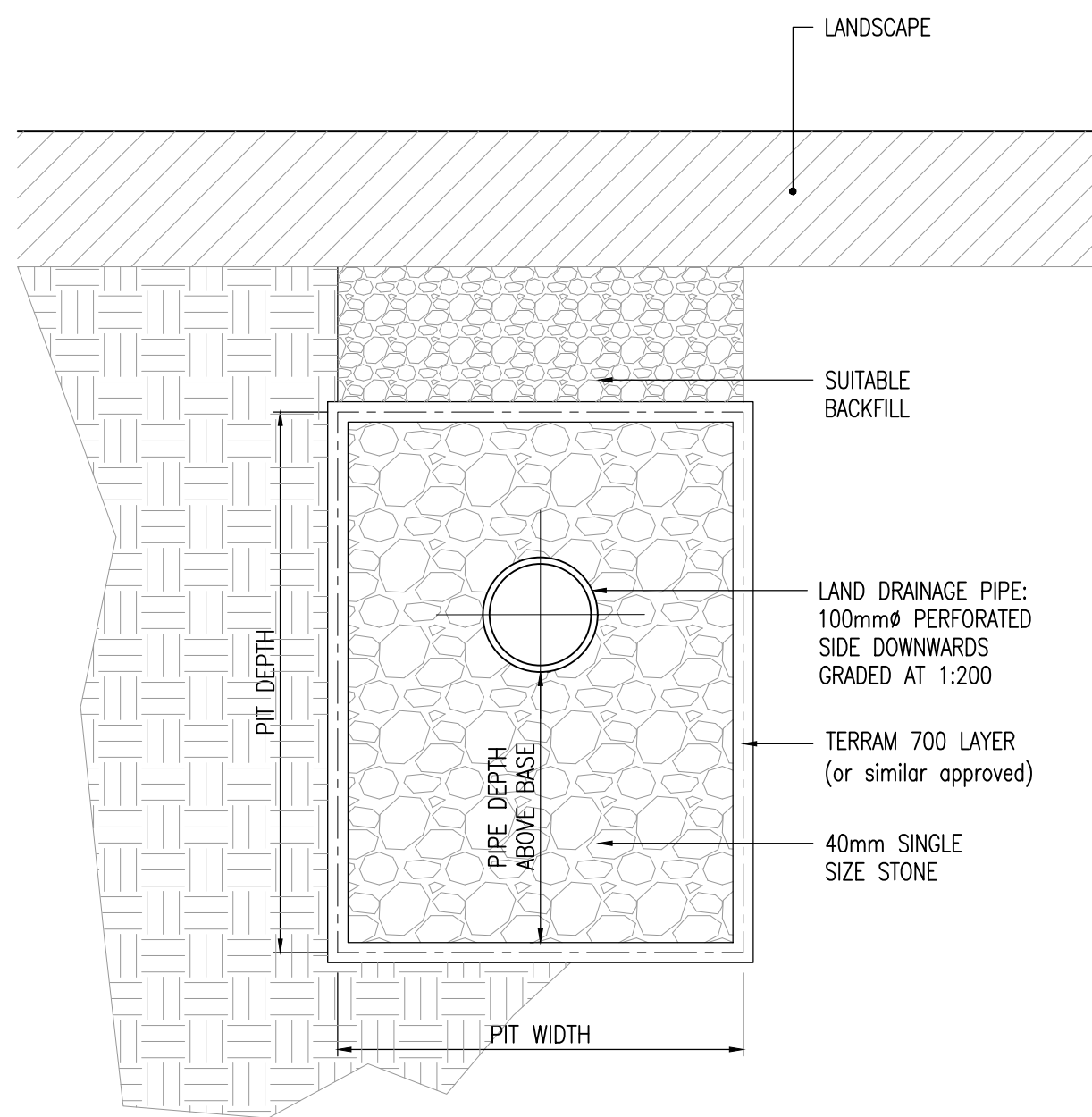
INSPECTION CHAMBER TYPE 4 (FLEX)
MAX. DEPTH TO SOFFIT OF PIPE 2m NON ENTRY
(N.T.S.)



TYPICAL YARD GULLY DETAIL
(OSMA YARD GULLY '4D.800' OR SIMILAR APPROVED)
(1:10)



TYPICAL RWP DETAIL
(OSMA BOTTLE GULLY 'BN 110 S/S' OR SIMILAR APPROVED)
(1:10)



INFILTRATION TRENCH
REFER TO SOAKAWAY TRENCH
SCHEDULE FOR DETAILS
(1:10)

GENERAL NOTES

- DO NOT SCALE THIS DRAWING.
- CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.
- ANY DISCREPANCY TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.

4 NO. RESIDENTIAL DEVELOPMENT
AT BARAN ROAD, RHYDAFRO

DRAINAGE STANDARD DETAILS

Mr E. EVANS
PLANNING

C-002 13.06.18 AS SHOWN