TABLE 1: PROCESSED GRANULAR BEDDING AND SIDEFILL MATERIALS FOR RIGID PIPES

Pipe nominal size (DN)	Nominal maximum particle size (mm) See note (c)	Class of bedding See note (d)	Suitable Materials	
			EITHER: Maximum CF value for acceptability See note (b)	OR: Materials specified in British Standards See note (a)
100	10	S B F	0.15 0.30 0.15	10mm nominal single-size
		N	0.30	Fine aggregate
Over 100 to 150	16	S B F	0.15 0.30 0.15	10mm or 14mm nominal single-size
		N	0.30	Fine aggregate
Over 150 to 300	20	S B F	0.15 0.30 0.15	10, 14 or 20mm nominal single-size
		N	0.30	All-in aggregate or fine aggregate
Over 300 to 550	20	S B F	0.15 0.30 0.15	14mm or 20mm nominal single-size or 14mm to 5mm graded or 20 to 5mm graded
		N	0.30	All-in aggregate or fine aggregate
Over 550	40	S B F	0.15 0.30 0.15	14, 20 or 40mm nominal single-size crushed rock or 14mm to 5mm, 20 to 5mm or 40 to 5mm graded
		N	0.30	All-in aggregate or fine aggregate

Notes:

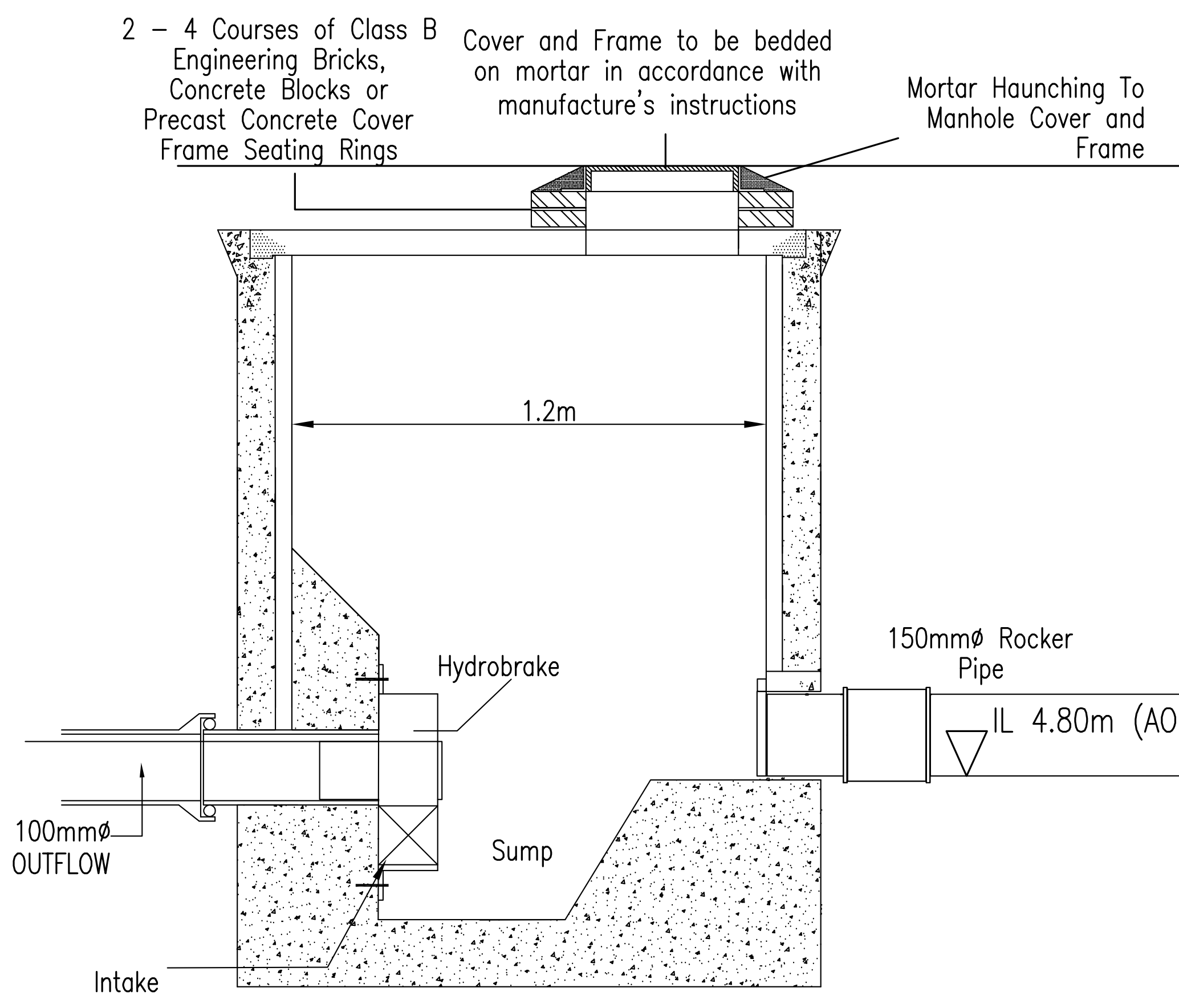
(a) Processed granular materials to include aggregates to BS EN 13242.

(b) Compaction Fraction value (CF), see Appendix B of WIs IGN No. 4-08-02.

(c) The nominal maximum particle sizes apply both to processed and as-dug materials (see Section 4 of IGN No. 4-08-01-Issue 4 and No.4-08-01 Amendment [Nov 2008]).

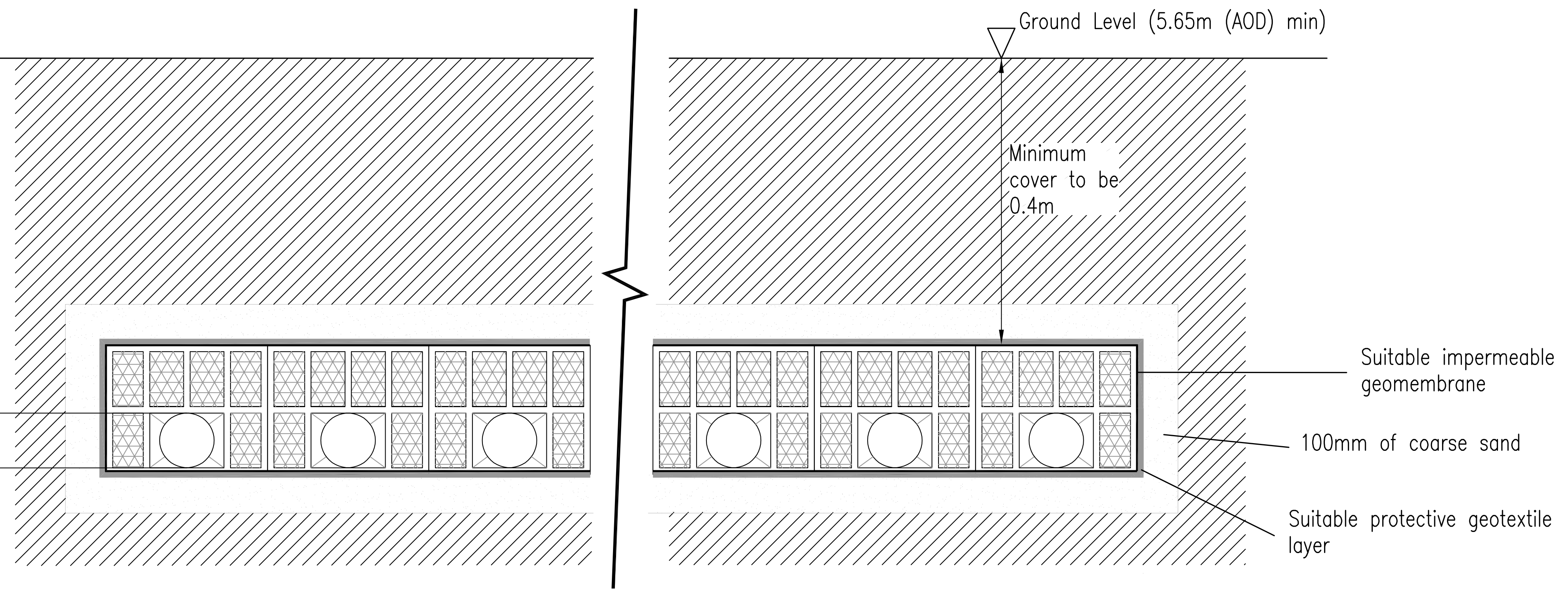
(d) Bedding classes are defined in:-
BS EN 1295-1:1997 Structural Design of Buried Pipelines under various conditions of loading.
TRRL - Simplified Table of External Loads on Buried Pipelines.

(e) The sulphate content of bedding and sidefill materials for use with cementitious pipe should not be greater than 0.3% as sulphur trioxide.


2 - 4 Courses of Class B Engineering Bricks, Concrete Blocks or Precast Concrete Cover Frame Seating Rings
Cover and Frame to be bedded on mortar in accordance with manufacture's instructions
Mortar Haunching To Manhole Cover and Frame
1.2m
Hydrobrake
150mmø Rocker Pipe
IL 4.80m (AOD)
100mmø OUTFLOW
Sump
Intake

Typical Hydrobrake Manhole

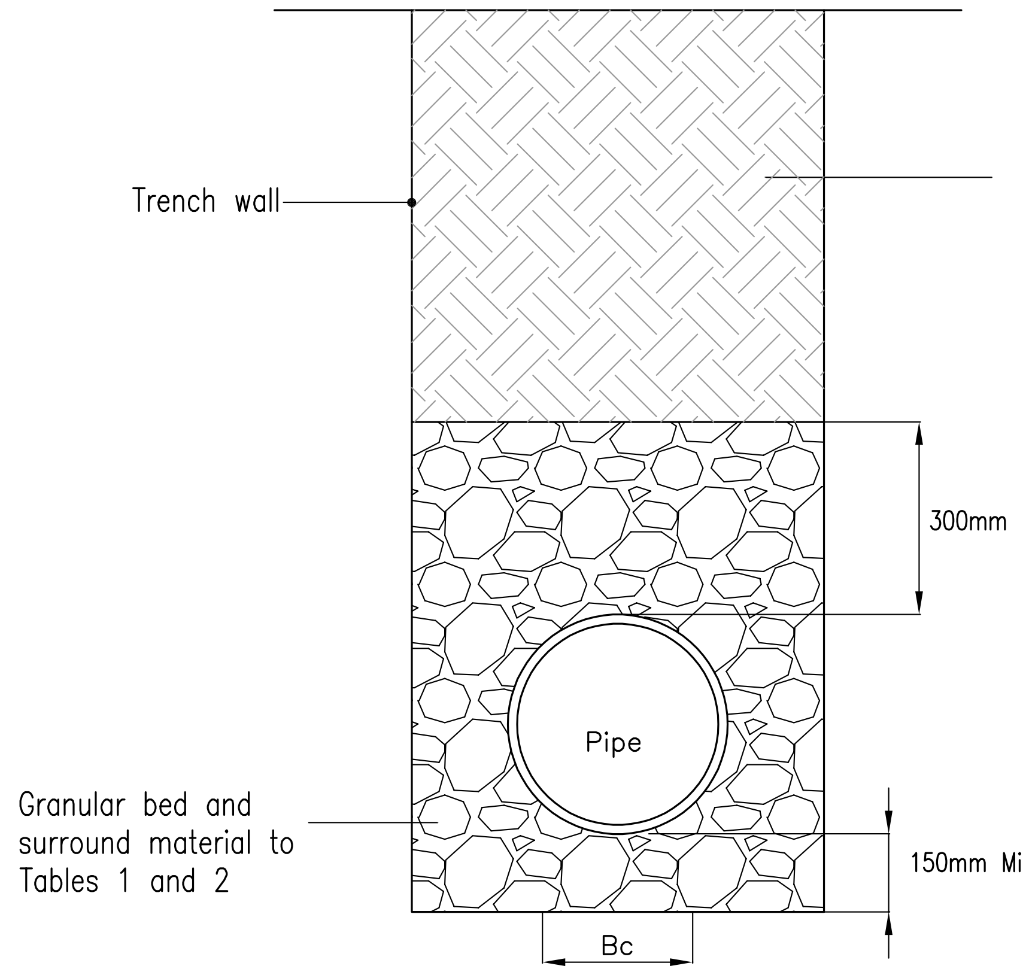
Scale N.T.S.


Ground Level (5.65m (AOD) min)
Minimum cover to be 0.4m
Suitable impermeable geomembrane
100mm of coarse sand
Suitable protective geotextile layer

TYPICAL CELULAR TANK SECTION

(TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS)

SCALE NTS

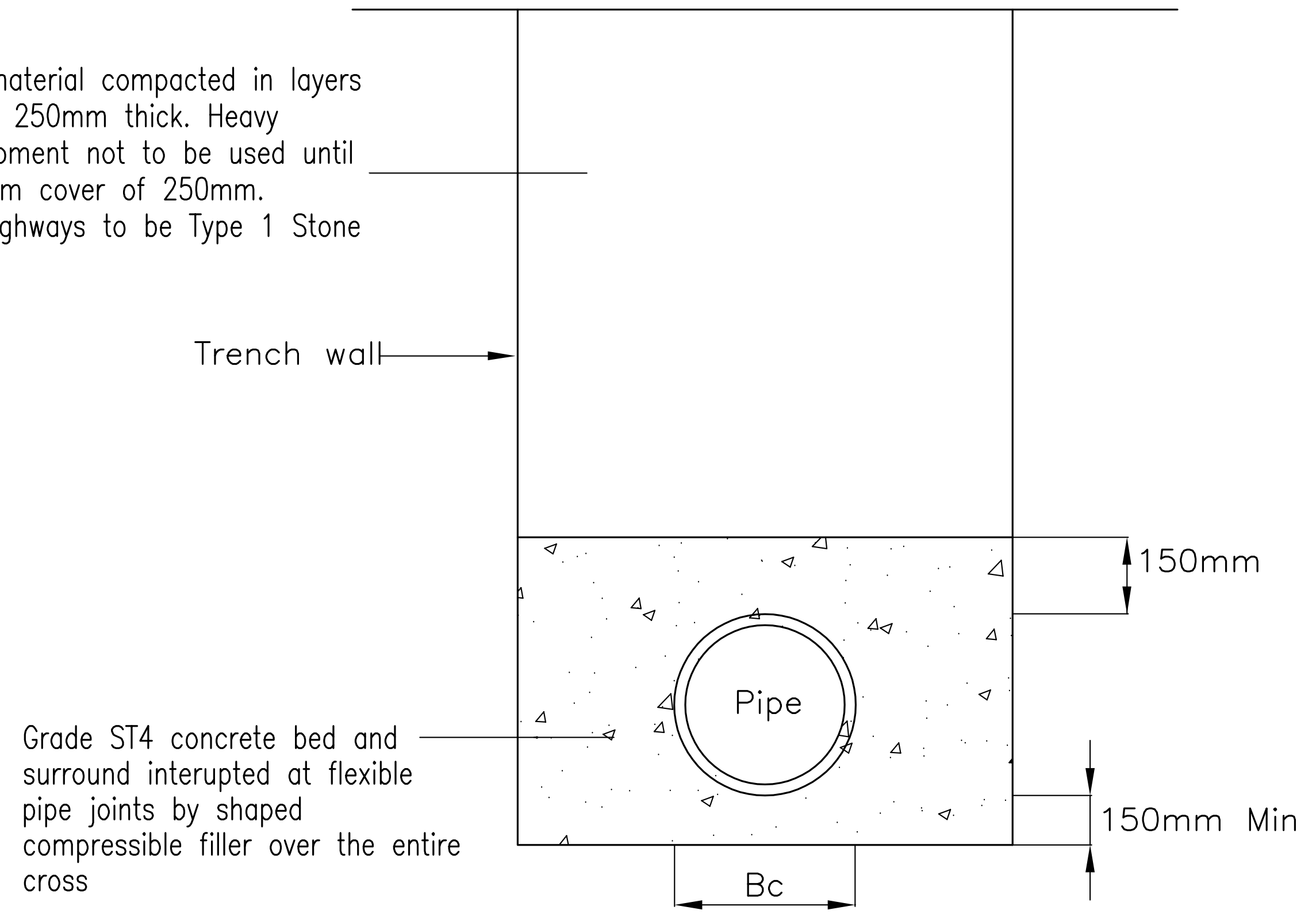


Trench backfill material compacted in layers not greater than 250mm thick. Heavy compaction equipment not to be used until pipe has minimum cover of 250mm. Backfill Under Highways to be Type 1 Stone

Bed Type S >1.2m

PIPE BEDDING DETAIL

Not To Scale


Trench wall
150mm
Pipe
Grade ST4 concrete bed and surround interupted at flexible pipe joints by shaped compressible filler over the entire cross
150mm Min
Bc

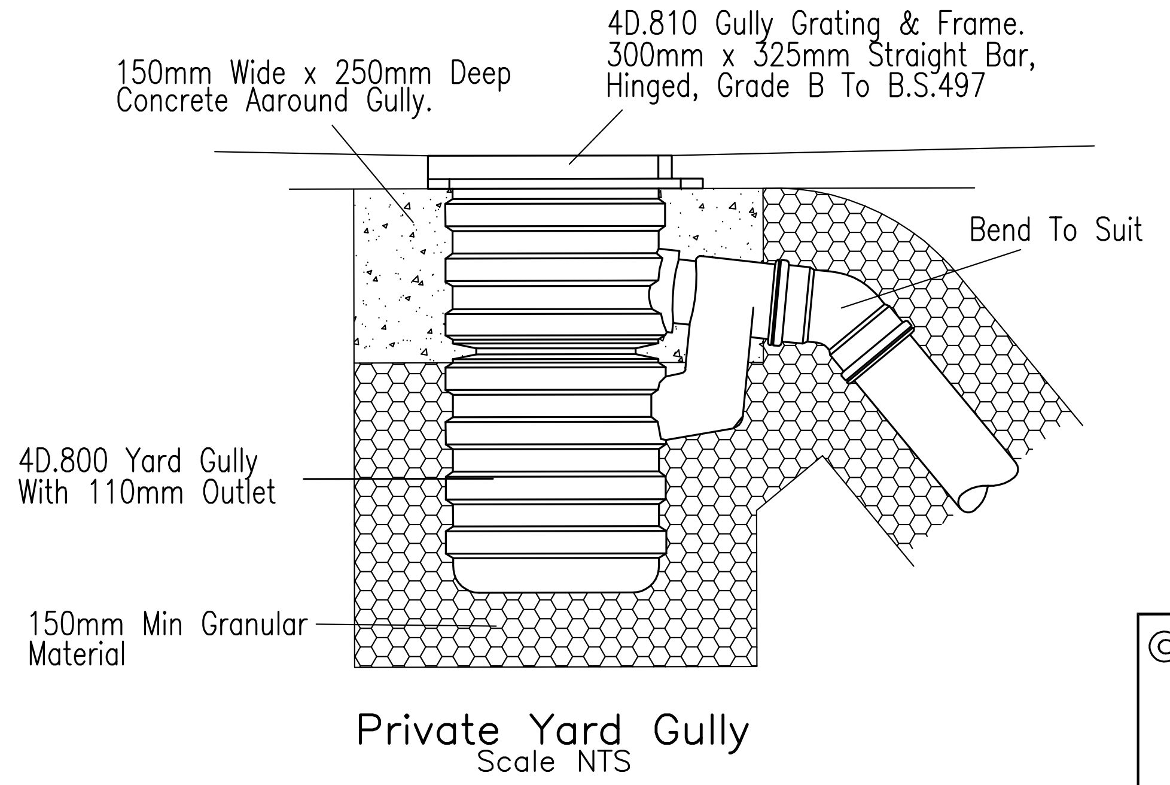
Bed Type Z <1.2m

CONCRETE SURROUND

Not To Scale

Bedding and Sidefill Material

Bedding, sidefill and surround materials shall comply with Water Industry Specification No. 4-08-02. Bedding and sidefill material to be selected imported granular material complying with Tables 1 and 2 for rigid and flexible pipes respectively.


4D.810 Gully Grating & Frame. 300mm x 325mm Straight Bar, Hinged, Grade B To B.S.497
150mm Wide x 250mm Deep Concrete Aaround Gully.
Bend To Suit
4D.800 Yard Gully With 110mm Outlet
150mm Min Granular Material

Private Yard Gully

Scale NTS

General Notes

1. Access cover Grades
BSEN 124 : 1994
Class D400 - Carriageway and parking areas
Class B125 - Footways
Class A15 - Areas inaccessible to motor vehicles
All covers to be ductile iron.

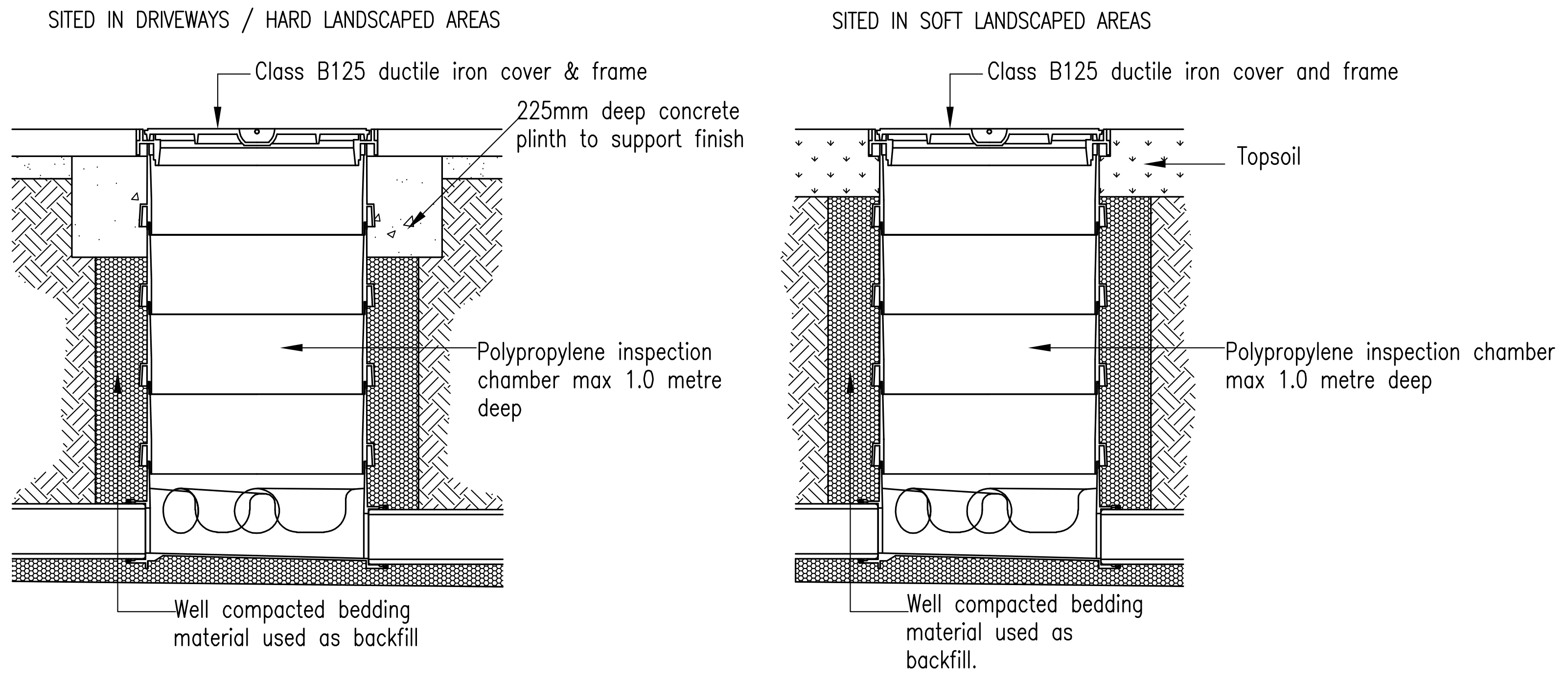
2. Pipes built into manholes shall have a flexible joint as close as feasible to the external face of the structure and the length of the first pipe and rocker pipe shall be as shown.

Nominal diameter(mm).	Rocker Pipe length(m).
150 - 600	0.60
675 - 750	1.00
825 & Over	1.25

3. All pipes entering the bottom of the manhole to have the same soffit level unless otherwise shown on plan.

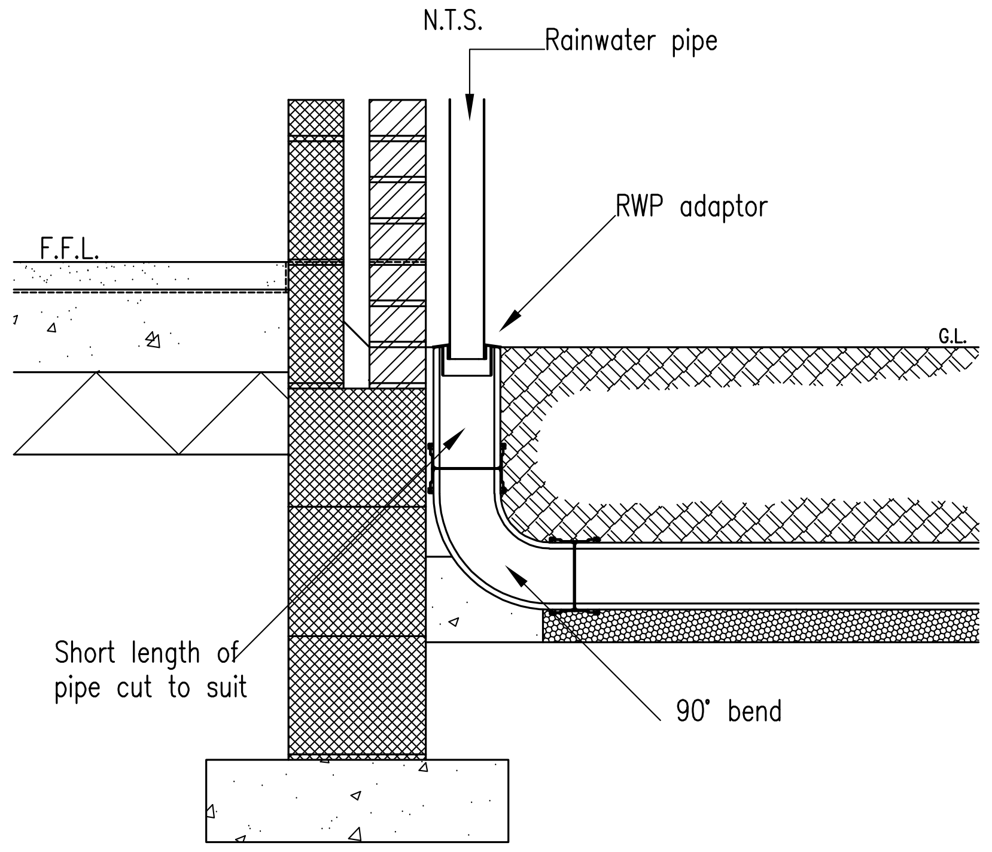
POLYPROPYLENE INSPECTION CHAMBER INSTALLATION DETAIL

N.T.S.


SITED IN DRIVEWAYS / HARD LANDSCAPED AREAS
Class B125 ductile iron cover & frame
225mm deep concrete plinth to support finish
Polypropylene inspection chamber max 1.0 metre deep
Well compacted bedding material used as backfill
SITED IN SOFT LANDSCAPED AREAS
Class B125 ductile iron cover and frame
Topsoil
Polypropylene inspection chamber max 1.0 metre deep
Well compacted bedding material used as backfill.

EXTERNAL RAINWATER PIPE CONNECTION DETAIL

N.T.S.



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Client
Store Property Investments Limited

Job Title
Proposed Drive-Thru
Worthing Road
Rustington

Drawing Title
Drainage Construction Details

Drawing Status:

FOR COMMENT	FOR PLANNING	FOR TENDER	FOR APPROVAL	FOR CONSTRUCTION	AS BUILT
☒					
CONSTRUCTION AT CLIENT / CONTRACTOR RISK					

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Drawn by: RT
Checked by: AD
Date: June 2017
Scale: As Shown @ A1
Drg. No. 5753/07
Rev. -

ARUN DISTRICT COUNCIL LU/[illegible]