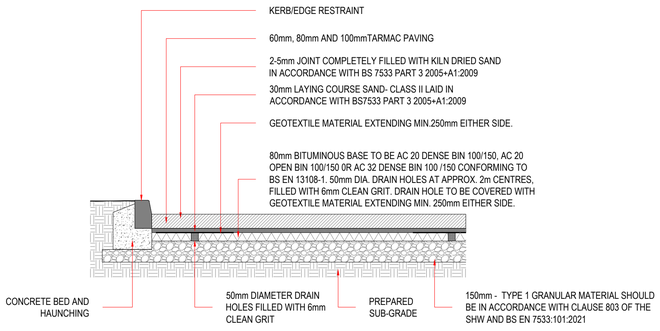
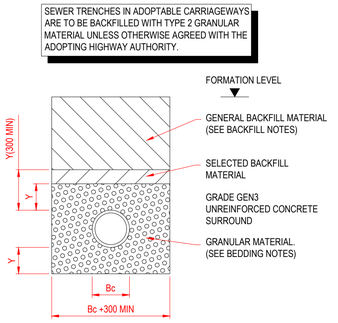
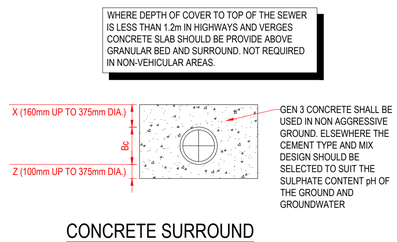


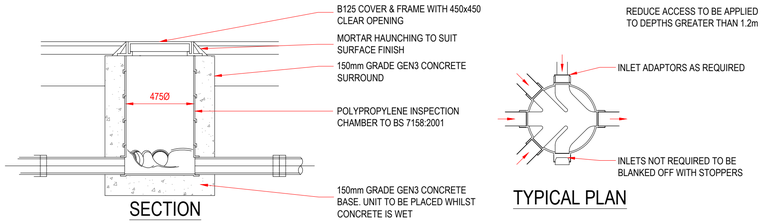
TARMAC PAVING & SUB BASE DETAIL FOR CAR PARKING SPACES
1:20



CLASS S DETAIL



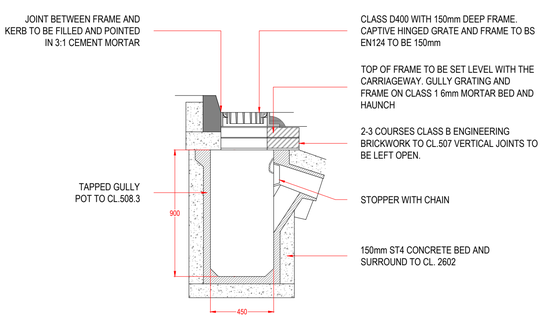
CONCRETE SURROUND (CLASS Z) DETAIL



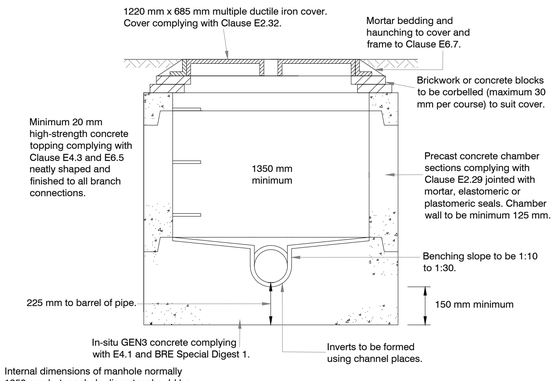
SECTION

TYPICAL PLAN

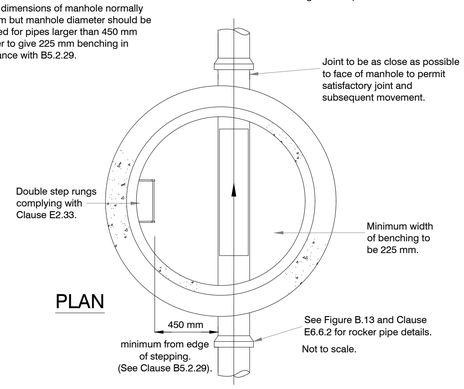
TYPE E POLYPROPYLENE INSPECTION CHAMBER (Private) DEPTH UP TO 2.00m
(SCALE 1:20)



ROAD GULLY DETAIL
1:20



Internal dimensions of manhole normally 1350 mm but manhole diameter should be increased for pipes larger than 450 mm diameter to give 225 mm benching in accordance with B5.2.29.



PLAN

Note: The use of precast concrete chamber units to E2.29 with 150 mm Gen3 in-situ concrete complying with e4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.

TYPICAL MANHOLE DETAIL - TYPE C
Depth from cover to soffit of pipe less than 1.5 m
Maximum pipe size 450 mm diameter
Rigid material construction

Extract from Table A2 WIS 4-08-02
Processed granular bedding and sidefill materials for flexible pipes

Pipe nominal bore (mm) see note (d)	Nominal maximum partical size (mm)	Materials specific in British Standards see note (a)
100	10	10mm nominal single-size
Over 100 to 150	15	10 or 14mm nominal single-size or 14mm to 5mm graded
Over 150 to 300	20	10, 14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
Over 300 to 550	20	14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded
Over 550	40	14 or 20mm nominal single-size or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded

Notes:
(a) Processed granular materials to include aggregates to BS 882, air-cooled blast furnace slag to BS1047 and lightweight aggregates to BS 3797.
(c) For the purpose of thus table, PE pipe of 630mm OD can be regarded as having nominal bores of over 550mm, irrespective of wall thickness.
(d) Nominal bore is used in preference to DN because of the different nominal size classifications for flexible pipes.

Requirements for all manhole types.

All pipe entering or leaving manholes shall have a Stub End pipe built into the structure so that a flexible joint is provided as close as practicable (and in any event within 600mm of inside face of manhole) to the outside of the chamber whilst still retaining movement in the flexible joint. The next pipe (rocker pipe) shall be of the following

lengths :-

100 - 600dia 600 long rocker
601 - 750dia 1000 long rocker
over 750dia 1250 long rocker
The Stub End shall project into the chamber so that the joint with the open channel is within the internal dimensions of the chamber by 100 min.

Channel shall be constructed in half section pipes, size and material to match outgoing pipeline (Plastic channels are NOT acceptable). All bends on Adoptable pipelines to be located in open channel of chamber. All incoming side branches to be built in at level soffit with main and with open channels swept in to give an oblique with the flow entry to the main channel. Steps or ladder to land onto benching clear of Main or incoming side branches Slope of benching to be between 1:30 - 1:10.

Unless otherwise instructed by the Engineer, a 20mm thick High Strength Concrete Topping shall be applied to the benching, and shaped neatly to branch channels Refer to Specification clauses 5.4.3. In all cases the benching final finish shall be Wood Floated For pipes exceeding 600dia outgoing toe holds are to be provide in the side of the channel under the steps/ladder at the same spacing as for step rungs.

* these areas of slab exposed when square brickwork built off slab with circular opening are to be filleted with mortar.

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING, ALL DETAILS AND DIMENSIONS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
3. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE
4. ALL LEVELS ARE RELEVANT TO ORDNANCE DATUM (NEWLYN).
5. LOCATION OF EXISTING SEWERS, UTILITIES AND SERVICES TO BE SURVEYED BEFORE COMMENCING WORK ON SITE.
6. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "SEWERS FOR ADOPTION" 6TH EDITION, THE RELEVANT BRITISH/EUROPEAN AND UNITED UTILITIES'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.

Rev:	Description:	Date:	By:	Chkd:
B	Table omitted	07.07.26	ET	DW
A	Manhole detail removed	06.07.26	ET	DW
/	First Issue	02.06.26	ET	DW

Status: DETAILED

Client: WATSON CONSTRUCTION LTD

Project: THE PARK WYTHENSHAWE

Drg Title: DRAINAGE CONSTRUCTION DETAILS

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Scale:	Size:	First Issue:	Drawn:	Checked:	Rev:
1:500	A1	06/ 26	ET	DW	B

Drawing No: 25020-C-1600

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