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RCA Document Reference: RCA A1 Landscape Version 1
M:\RCA Job Files\2013\2013_08 - Llys Wern, Neath\F - RCA Civil Drawings\2013_08-08.dwg

DO NOT SCALE

FIGURE B.20

ALTERNATIVE BASE LAYOUTS FOR TYPE 3 CHAMBERS

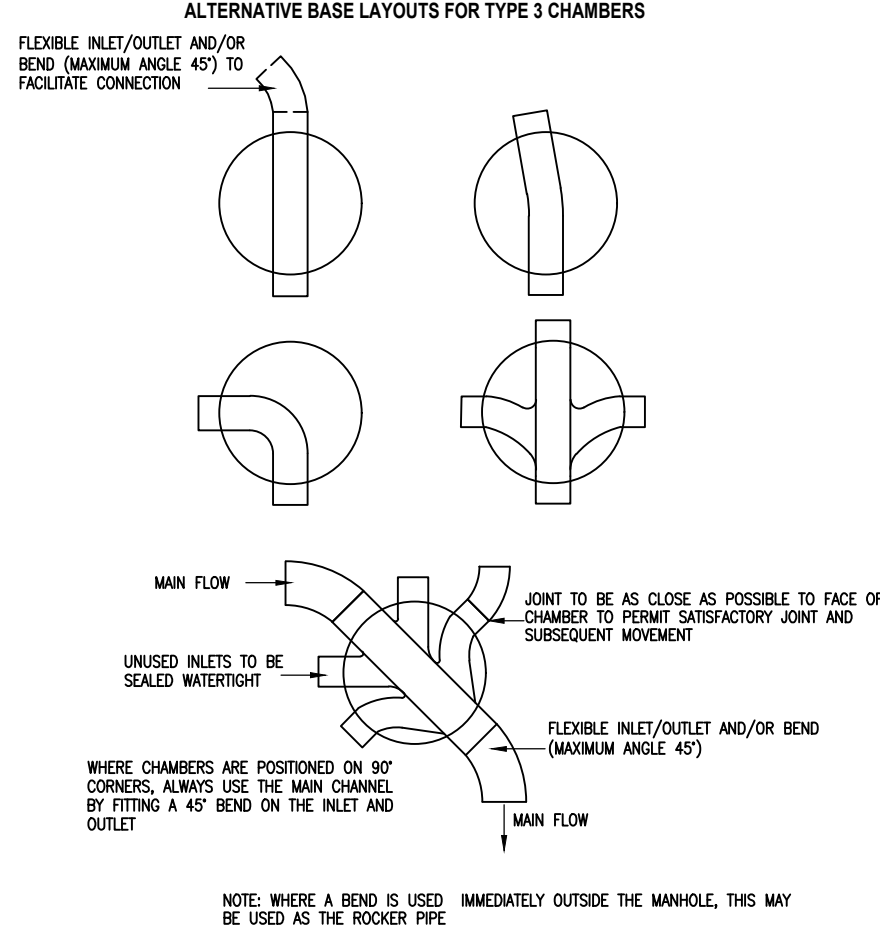


FIGURE B.1

PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS IN PROXIMITY TO BUILDINGS

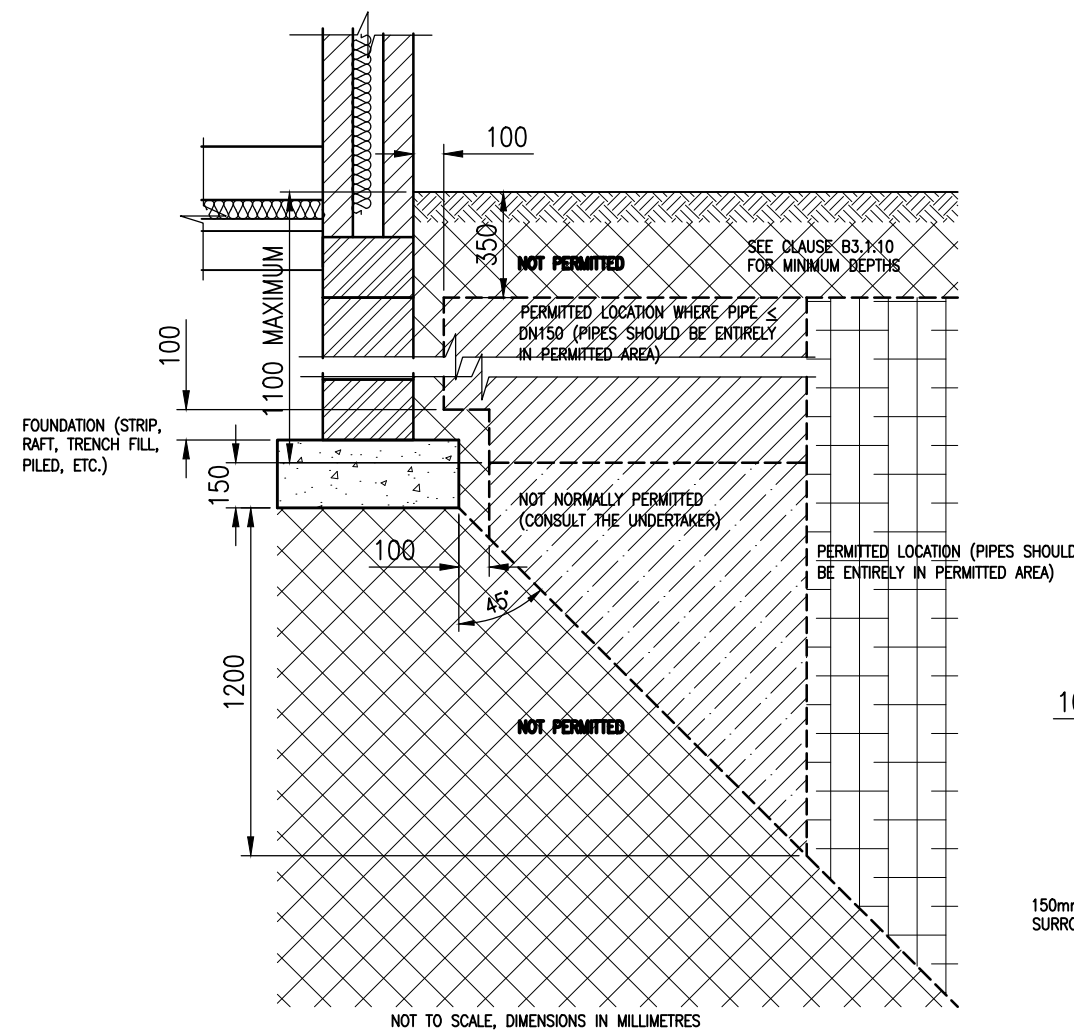
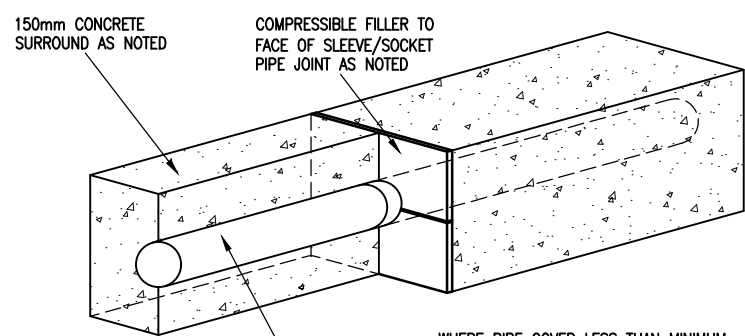
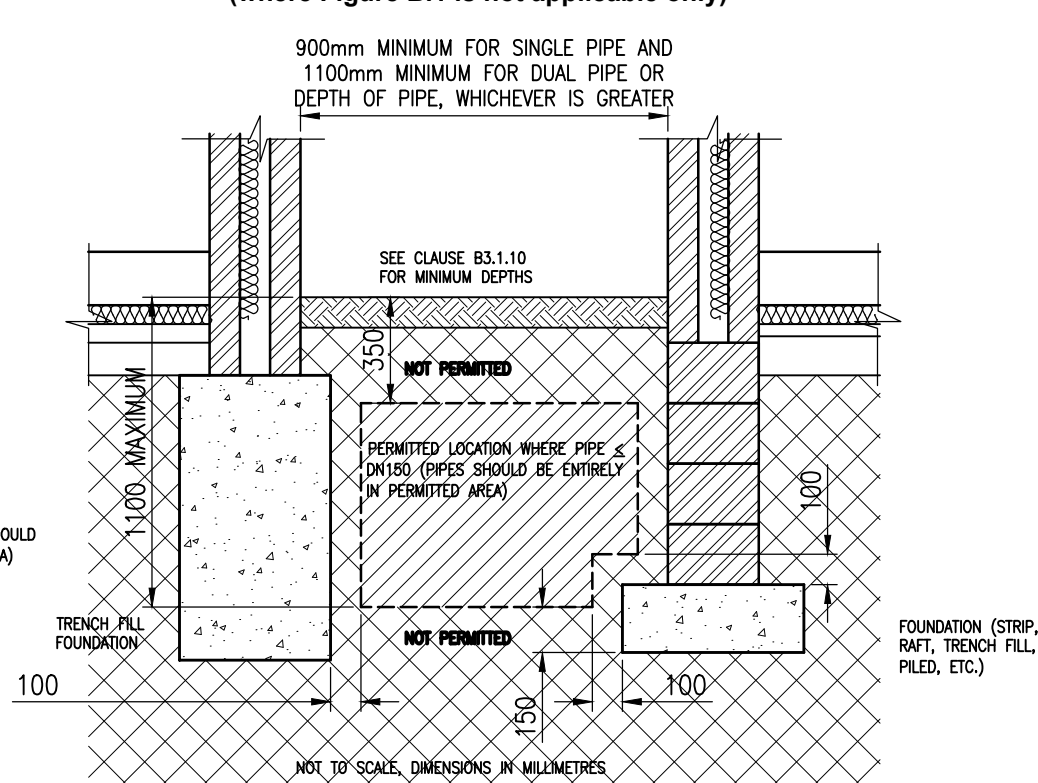
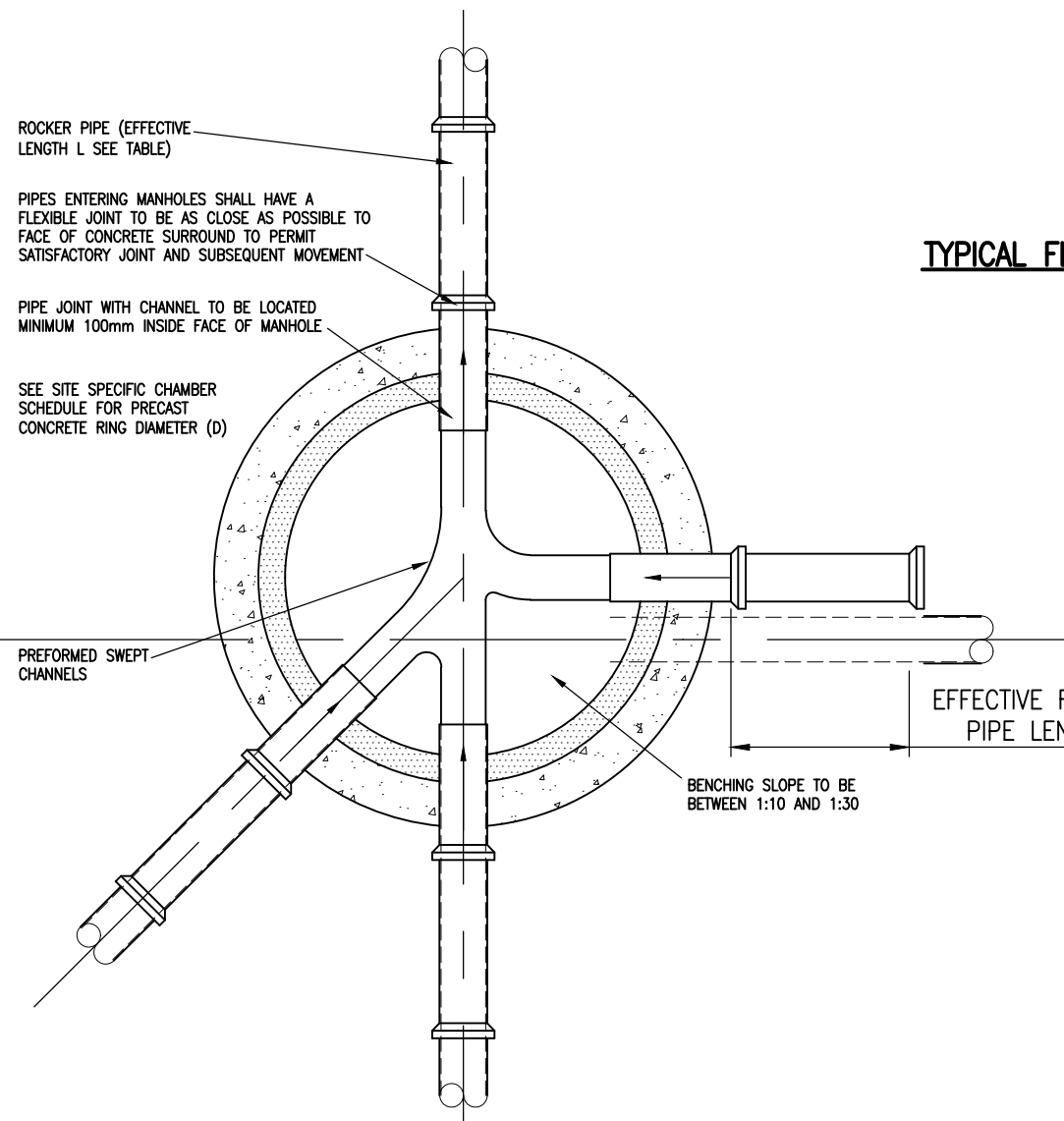


FIGURE B.2

ADDITIONAL DETAIL - PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS BETWEEN BUILDINGS (where Figure B.1 is not applicable only)



TYPICAL FLEXIBLE JOINT IN CONCRETE SURROUND (ISOMETRIC)

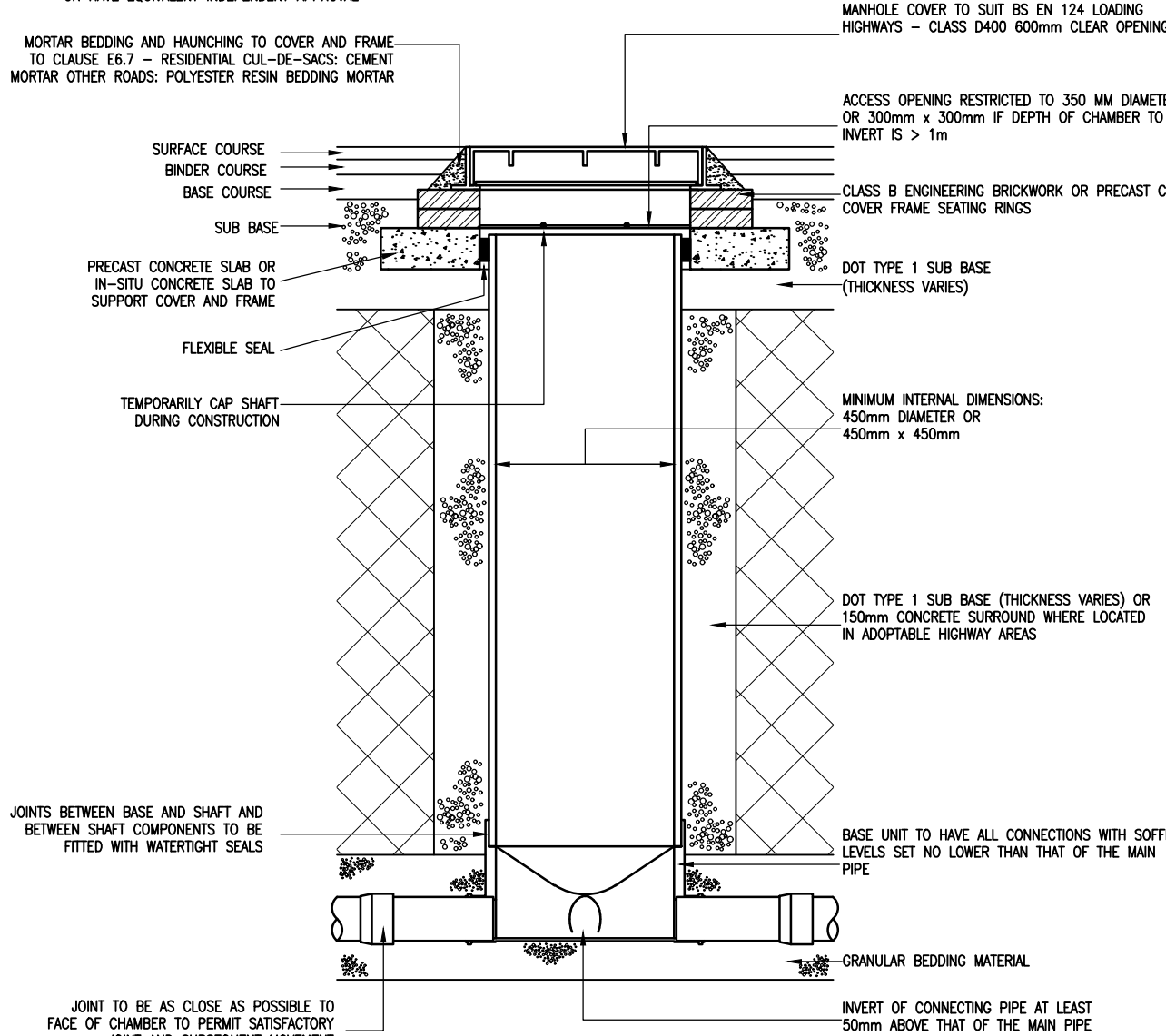


PIPES BUILT INTO MANHOLE SHOULD HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO THE EXTERNAL FACE OF THE MANHOLE STRUCTURE AND THE LENGTH OF THE NEXT ROCKER PIPE SHOULD BE AS SHOWN BELOW. ALL PIPES ENTERING THE BOTTOM OF THE MANHOLE TO HAVE SLOTTED JOINTS.

NOMINAL DIAMETER (mm)	EFFECTIVE ROCKER PIPE LENGTH (m)
150 - 600	0.600
601 - 750	1.000
OVER 750	1.250

TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES

NOTE: PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.



TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3 (FLEXIBLE MATERIAL DETAIL)

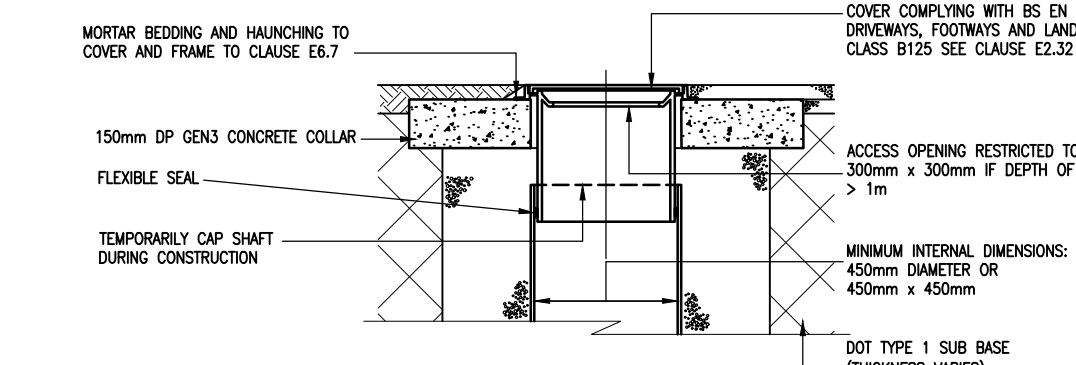
MAXIMUM DEPTH FROM COVER LEVEL TO SOFT OF PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3m, NON-ENTRY

FIGURE B.17
ALTERNATIVE TOP DETAILS FOR LIGHT VEHICLE LOADING AND LANDSCAPED AREAS - TYPE 3 (Flexible material detail)

Maximum depth from cover level to soft of pipe in areas subject to vehicle loading 3 m, non-entry

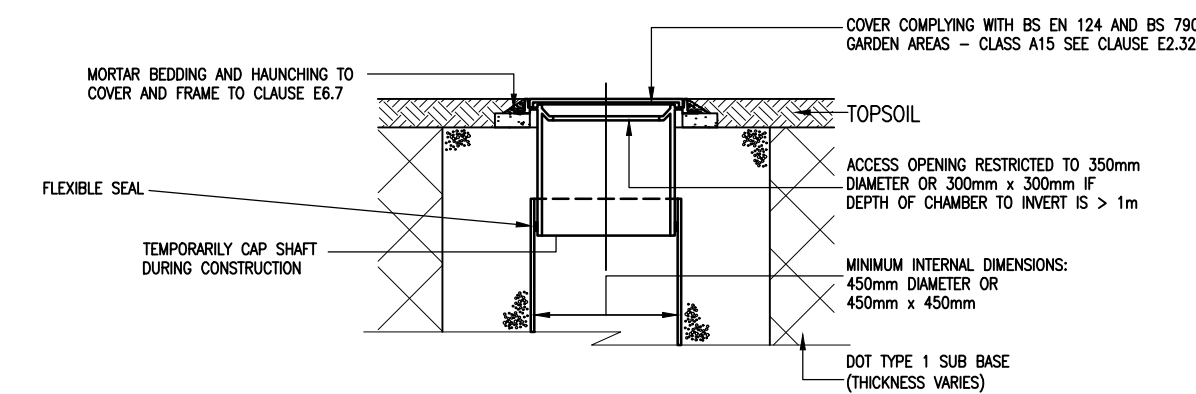
SITED IN DOMESTIC DRIVEWAY OR FOOTPATHS

PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.

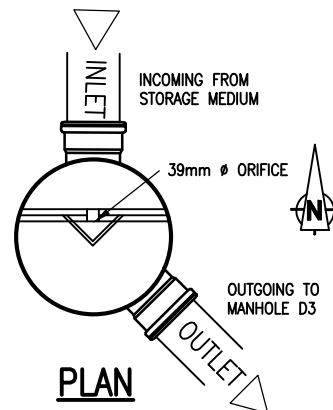


SITED IN DOMESTIC GARDENS

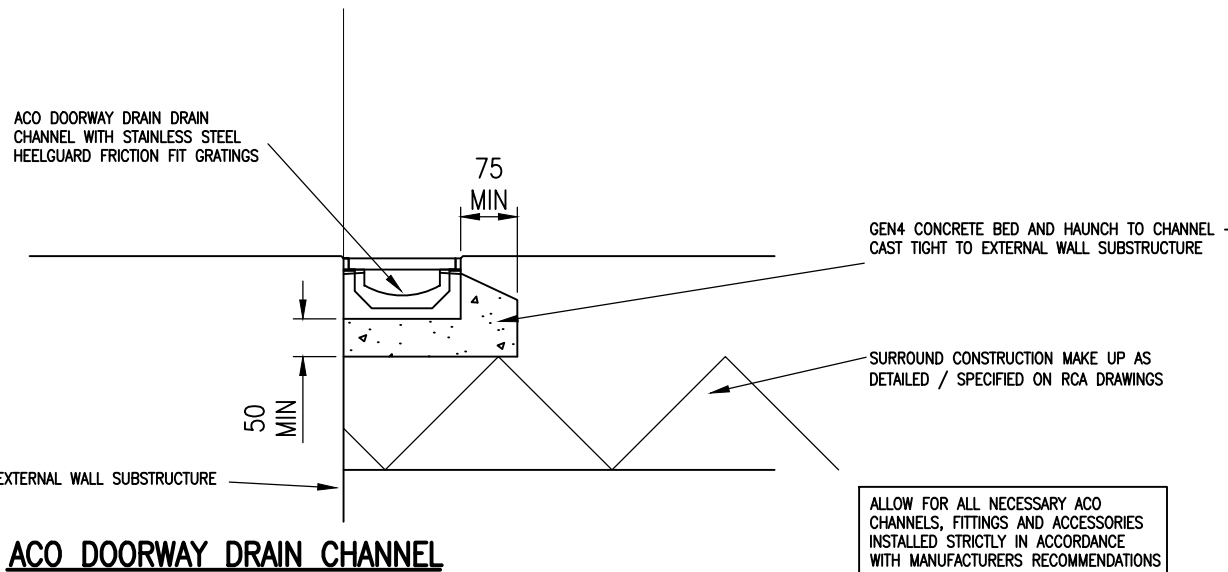
PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL.



Note: Where the access chamber is in the highway the Highway Authority can have specific requirements

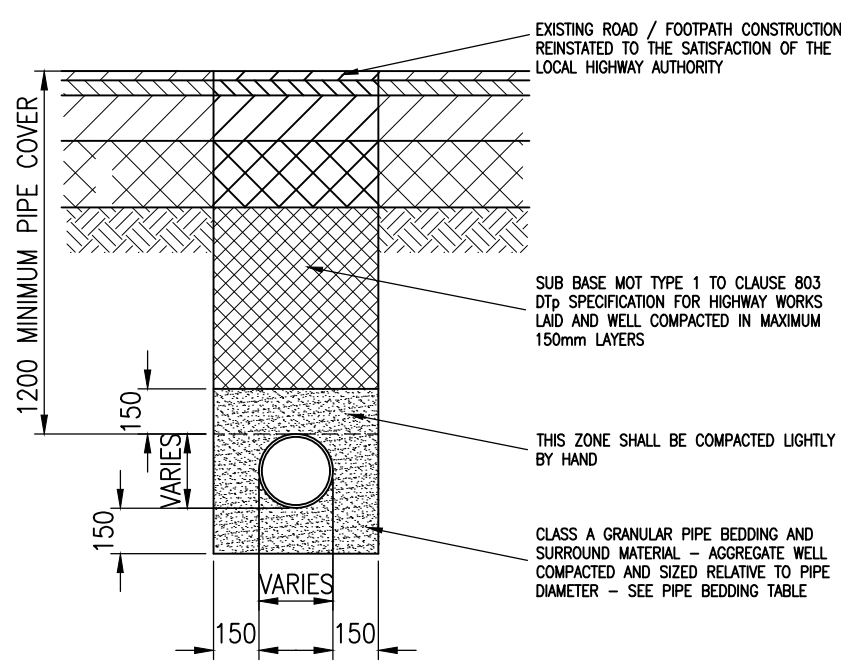


PRE-FABRICATED CONTROFLOW 500 PLASTIC CHAMBER INSTALLED AS TYPE 3 DETAIL (WITH ORIFICE PLATE - S14)

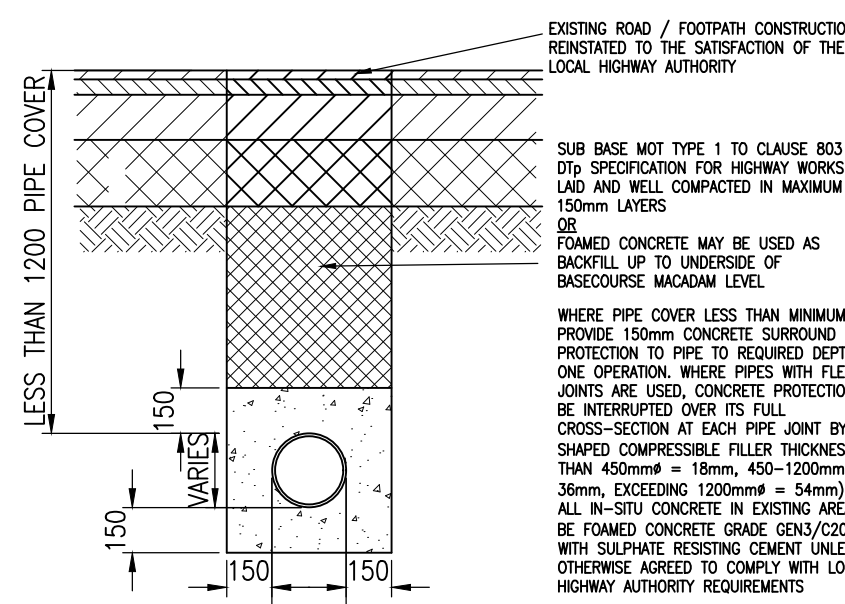


ACO DOORWAY DRAIN CHANNEL INSTALLATION SECTION AT PEDESTRIAN DOORS

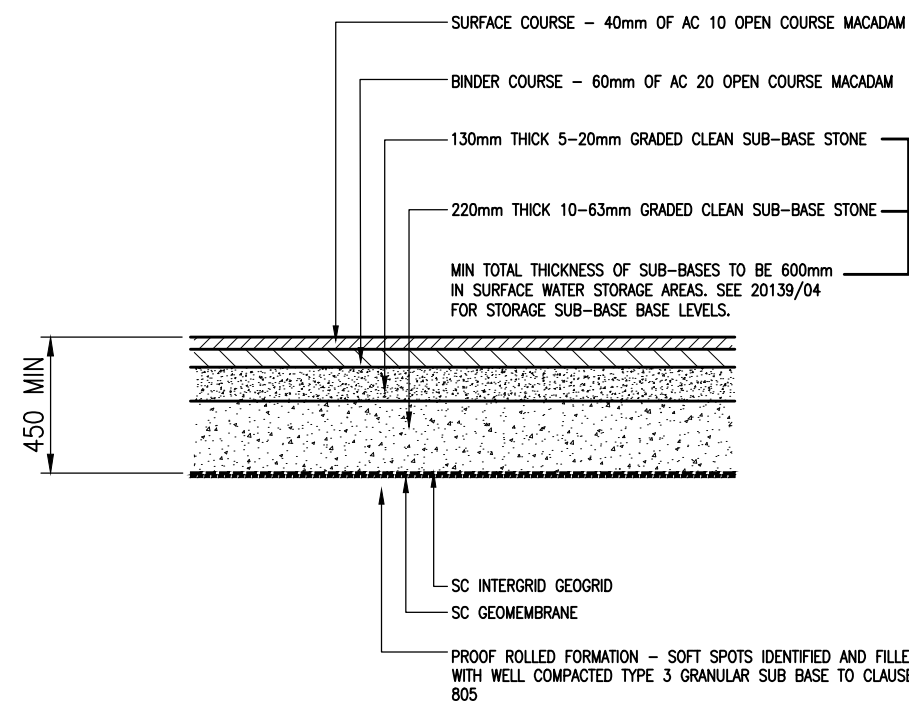
SCALE 1:10



TYPICAL SEWER TRENCH DETAIL
SEWER LAID IN EXISTING
ROADS / FOOTPATHS / HARD LANDSCAPING / ETC.

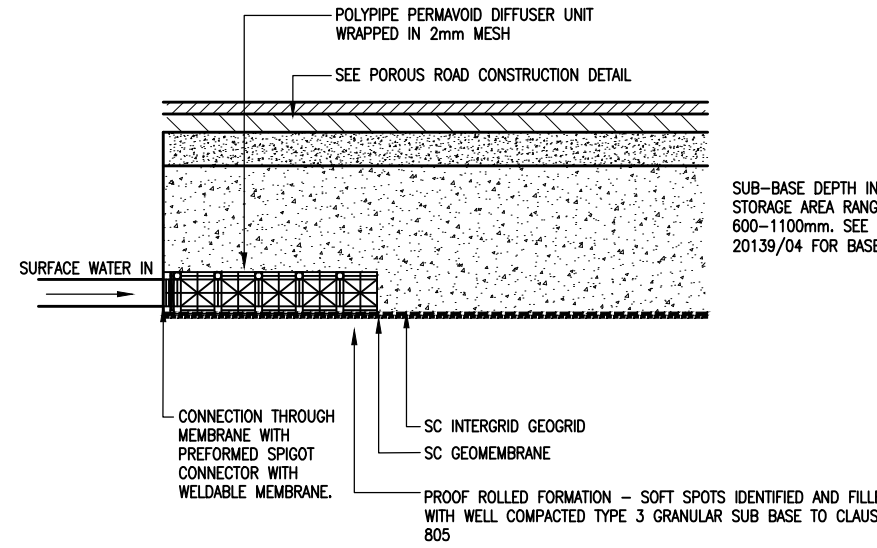


TYPICAL SEWER TRENCH DETAIL
SEWER LAID IN EXISTING
ROADS / FOOTPATHS / HARD LANDSCAPING / ETC.



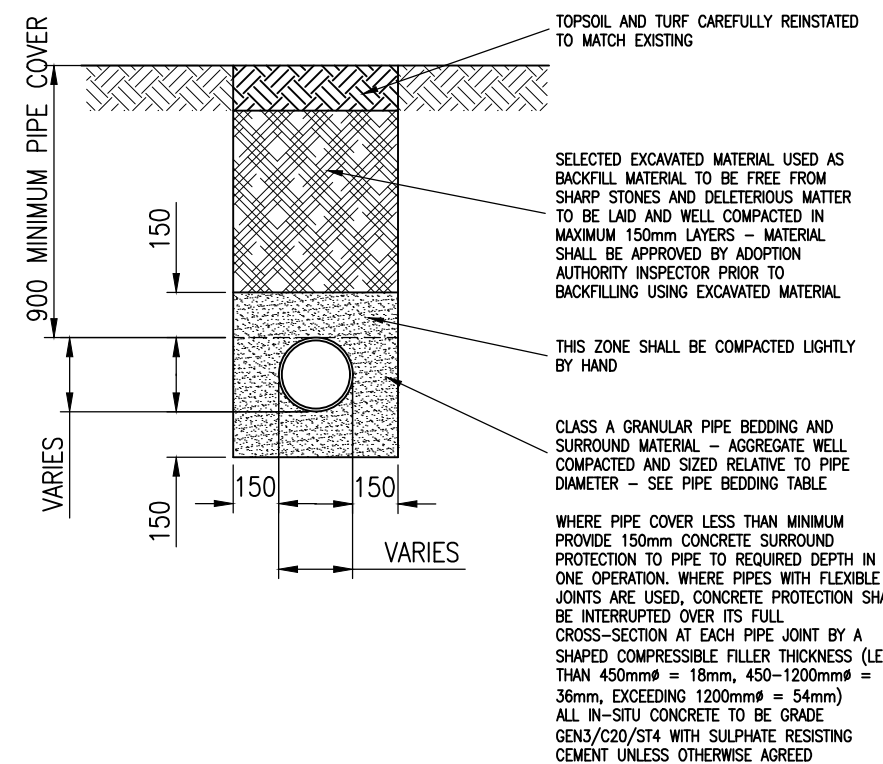
PERMEABLE MACADAM CAR PARKING CONSTRUCTION SECTION

SCALE 1:20

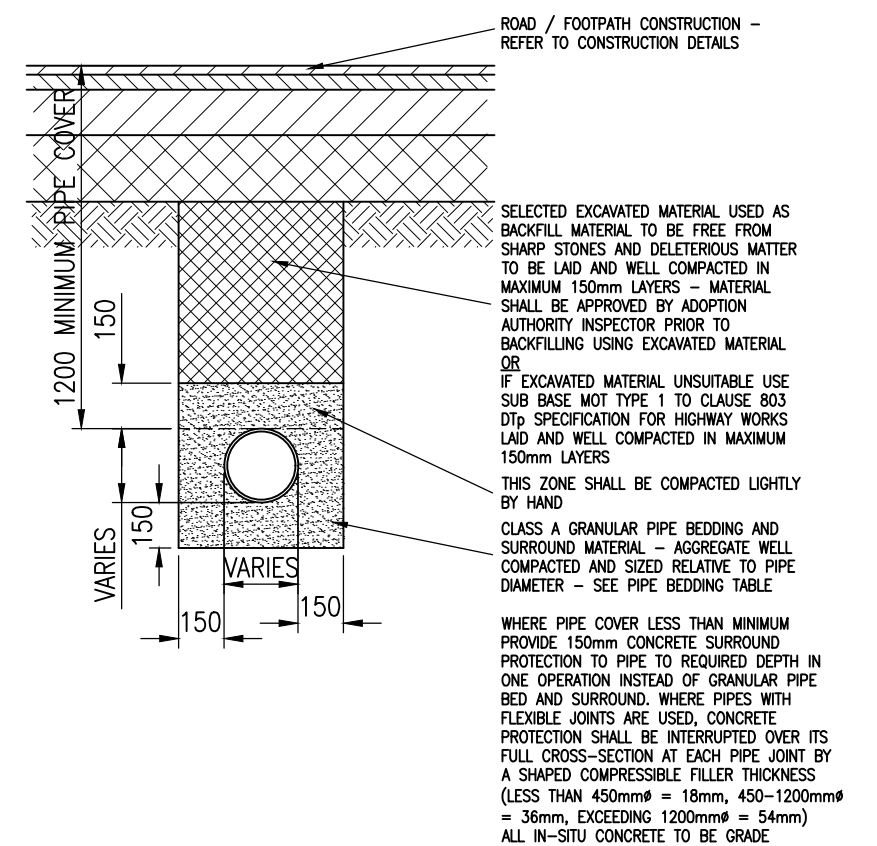


PERMAVOID DIFFUSER UNIT

INSTALLED TO MANUFACTURERS DETAILS (POLYPIPE)



TYPICAL SEWER TRENCH DETAIL
SEWER LAID IN GARDENS / SOFT LANDSCAPING / ETC.



TYPICAL SEWER TRENCH DETAIL
SEWER LAID IN NEW
ROADS / FOOTPATHS / HARD LANDSCAPING / ETC.

NOTES:

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THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED POTENTIALLY ADOPTABLE SEWERS ARE IN ACCORDANCE WITH THOSE SET OUT IN "SEWERS FOR ADOPTION - A DESIGN AND CONSTRUCTION GUIDE FOR DEVELOPERS" 7th EDITION AND CONFIRM THE SAME IN WRITING TO THE ADOPTION AUTHORITY.

THIS DRAWING INDICATES MINIMUM STANDARD REQUIREMENTS FOR ADOPTABLE DRAINAGE SYSTEMS IN TERMS OF MANHOLE DIAMETERS / SIZES, ETC. - REFER TO SITE SPECIFIC MANHOLE SCHEDULE - IF IN DOUBT ASK.

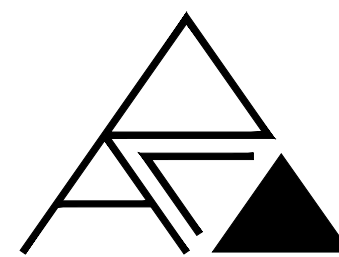
SEWERS MUST BE LAID AT A MAXIMUM GRADIENT OF 1:5 AND A MINIMUM GRADIENT OF 1:80 WHERE 10 OR LESS DWELLINGS ARE CONNECTED, WHERE 11 DWELLINGS OR MORE ARE CONNECTED THE MINIMUM SEWER GRADIENT SHALL BE 1:150.

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REV	DESCRIPTION	DRAWN	CHECK	DATE
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DRAWING STATUS:

PLANNING



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ARCHITECT:

EXPEDITE

PROJECT:

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DRAWING TITLE:

**DRAINAGE
CONSTRUCTION DETAILS**

DRAWN BY: BWE DESIGN BY: BWE CHECKED BY: PWJL DATE: 11/01/19

SCALES: 1:25 DRAWING No.: 20139/08 REVISION: -

ORIGINAL DRAWING A1

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