

FIGURE B.21

TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4 (Flexible material detail)

Maximum depth from cover level to soffit of pipe 2 m, non-entry

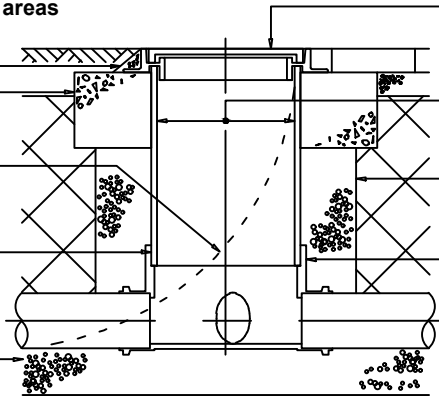
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval

Sited in driveways/paved areas

Mortar bedding and haunching to cover and frame to Clause E6.7
150 mm deep concrete collar
Minimum radius to be 500 mm for a 100 mm diameter pipe and 600 mm for a 150 mm diameter pipe to allow entry of maintenance equipment

Joints between base and shaft and shaft components to be fitted with watertight seals

Granular bedding material



Cover complying with BS EN 124 and BS 7903 Driveways, footways and landscaped areas - Class B125 See Clause E2.32

Minimum internal dimensions 180 mm diameter or 225 mm x 100 mm

DOT Type 1 sub base (thickness varies) or concrete surround

Base unit to have all connections with a diameter greater than 150 mm set at soffits level

Sited in domestic gardens

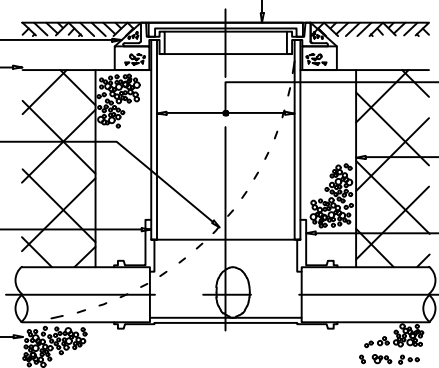
Mortar bedding and haunching to cover and frame to Clause E6.7

Topsoil

Minimum radius to be 500 mm for a 100 mm diameter pipe and 600 mm for a 150 mm diameter pipe to allow entry of maintenance equipment

Joints between base and shaft and shaft components to be fitted with watertight seals

Granular bedding material



Cover complying with BS EN 124 and BS 7903 Gardens - Class A15 See Clause E2.32

Minimum internal dimensions 180 mm diameter or 225 mm x 100 mm

DOT Type 1 sub base (thickness varies) or concrete surround

Base unit to have all connections with soffit levels set no lower than that of the main pipe

Flexible inlet/outlet and/or bend (maximum angle 45°)

Unused inlet to be sealed and watertight

Where chambers are positioned on 90° corners, always use the main channel by fitting a 45° bend on the inlet and outlet

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

Not to scale

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

Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval

Mortar bedding and haunching to cover and frame to Clause E6.7

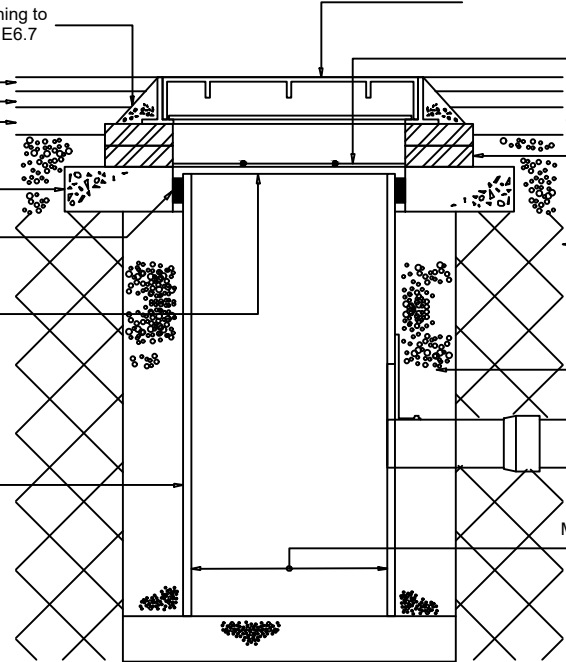
Surface course
Binder course
Base course

Precast concrete slab or in-situ concrete slab to support cover and frame

Flexible seal

Temporarily cap shaft during construction

Joints between base and shaft and between shaft components to be fitted with watertight seals



**CATCHPIT CHAMBER
500mm SUMP**

Manhole cover to suit BS EN 124 loading Highways - Class D400 600 mm clear opening

Access opening restricted to 350 mm diameter or 300 mm x 300 mm if depth of chamber to invert is > 1 m

Class B engineering brickwork or precast concrete cover frame seating rings

DOT Type 1 sub base (thickness varies)

DOT Type 1 sub base (thickness varies) or concrete surround

Minimum internal dimensions 450 mm diameter or 450 mm x 450 mm

REV DATE INT DESCRIPTION CHK

Issue Status **FOR APPROVAL**



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CLIENT Keith Langmead Ltd

PROJECT South Yard
Wicks Farm
South Yard B - North West

TITLE Drainage Strategy
Manhole Details

DRAWN M Pacifico	DATE Jan 2022	PROJECT NO. 23420
ENGINEER S Burgess	CHECKED SAB	REV.
SCALE 1:25 @ A4		08