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- The diagram illustrates a cross-section of a road drainage system. On the left, a 'Polypipe Permachannel with Class D400 heavy duty ductile iron self locking channel grating' is shown. Below it, a 'Polypipe Permachannel Universal Connector' is indicated. The drainage system is integrated into a road structure. The layers from top to bottom are: a 'Surface course (typical)', a 'Binder course (typical)', and a 'Granular layer dot type 1'. A bracket on the right indicates a 'Min. 260mm total cover to Road Engineers detail' for these three layers. Below the granular layer is a 'Polypipe Permatex 300 permeable Geotextile'. This is followed by a '300mm Permavoid unit fully wrapped in Permatex 300 permeable Geotextile.', which contains several oval-shaped voids. Below the Permavoid unit is a 'Permafilter Biomat'. At the very bottom is a '50mm Granular bedding layer'. A 'Polypipe Permafilter Geotextile' is shown at the base of the bedding layer.
- Polypipe Permachannel with Class D400 heavy duty ductile iron self locking channel grating
- Polypipe Permachannel Universal Connector
- Surface course (typical)
- Binder course (typical)
- Granular layer dot type 1
- Min. 260mm total cover to Road Engineers detail
- Polypipe Permatex 300 permeable Geotextile
- 300mm Permavoid unit fully wrapped in Permatex 300 permeable Geotextile.
- Permafilter Biomat
- 50mm Granular bedding layer
- Polypipe Permafilter Geotextile

150mm thick stone pitching set in and bedded on 150mm thick grade GEN3 concrete (designed to BRE Special Digest 1 Concrete in Aggressive Ground).

Safety grill.

Water level.

Construction joints.

Rocker pipe.

150mm minimum concrete bed and surround to pipe cast integrally with headwall.

Note: Stone pitching to be smooth, hard and durable.

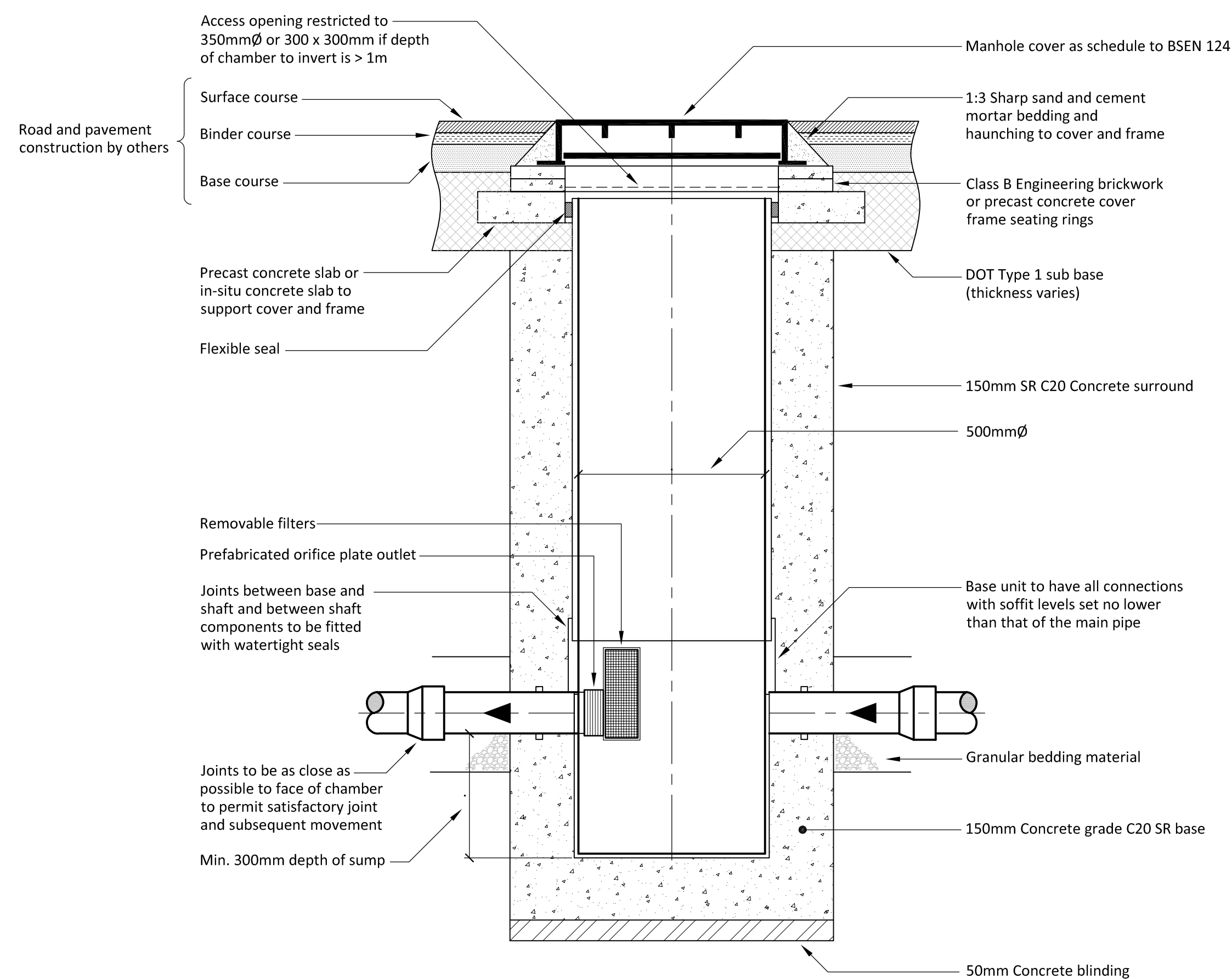
500mm Minimum

500mm Minimum

Diagram illustrating the components and dimensions of a manhole assembly:

- Safety grill:** The top cover of the manhole.
- Dimension to be agreed with Local Land Drainage Authority:** The height of the safety grill above the ground level.
- Pipe diameter:** The diameter of the vertical pipe leading into the manhole.

Detail 'M'
Typical Drainage Outfall to or
Inlet From a Watercourse



00	23.12.19	Planning Submission Outline Scheme	RG	CS
Revision	Date	Description	Drawn	Checked



hilsonmoran.com info@hilsonmoran.com

Client
Castle Property Developments Ltd
1 & 2 The Barn, West Stoke Road,
Lavant, Chichester, West Sussex
PO18 9AA

Project
The Cottage
Shirpney Road
Bognor
PO22 9PA

Drawing Title

Public Health Services
Drainage Details
Sheet 4

Scale	Sheet Size	Checked	Approved
NTS	A1	RG	CS

Drawing No.	Rev.
22761-HM-XX-XX-DR-PH-0304	00