

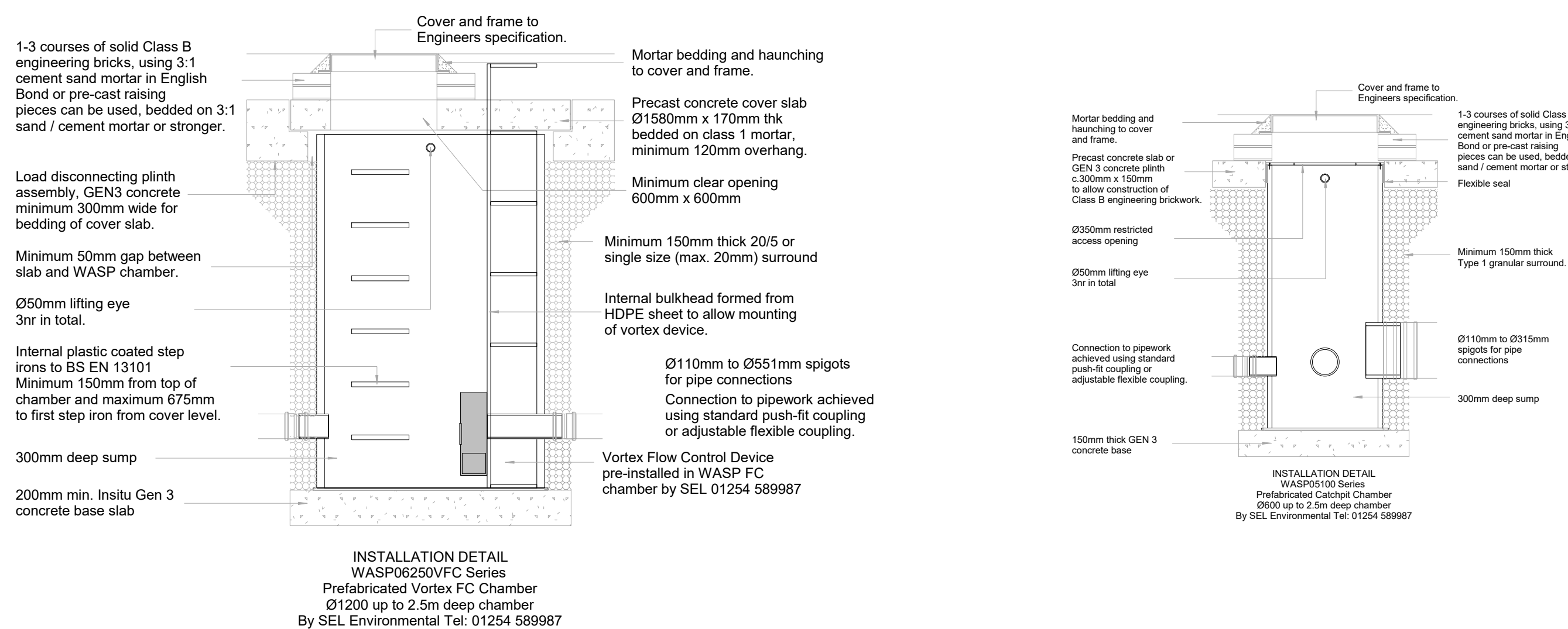
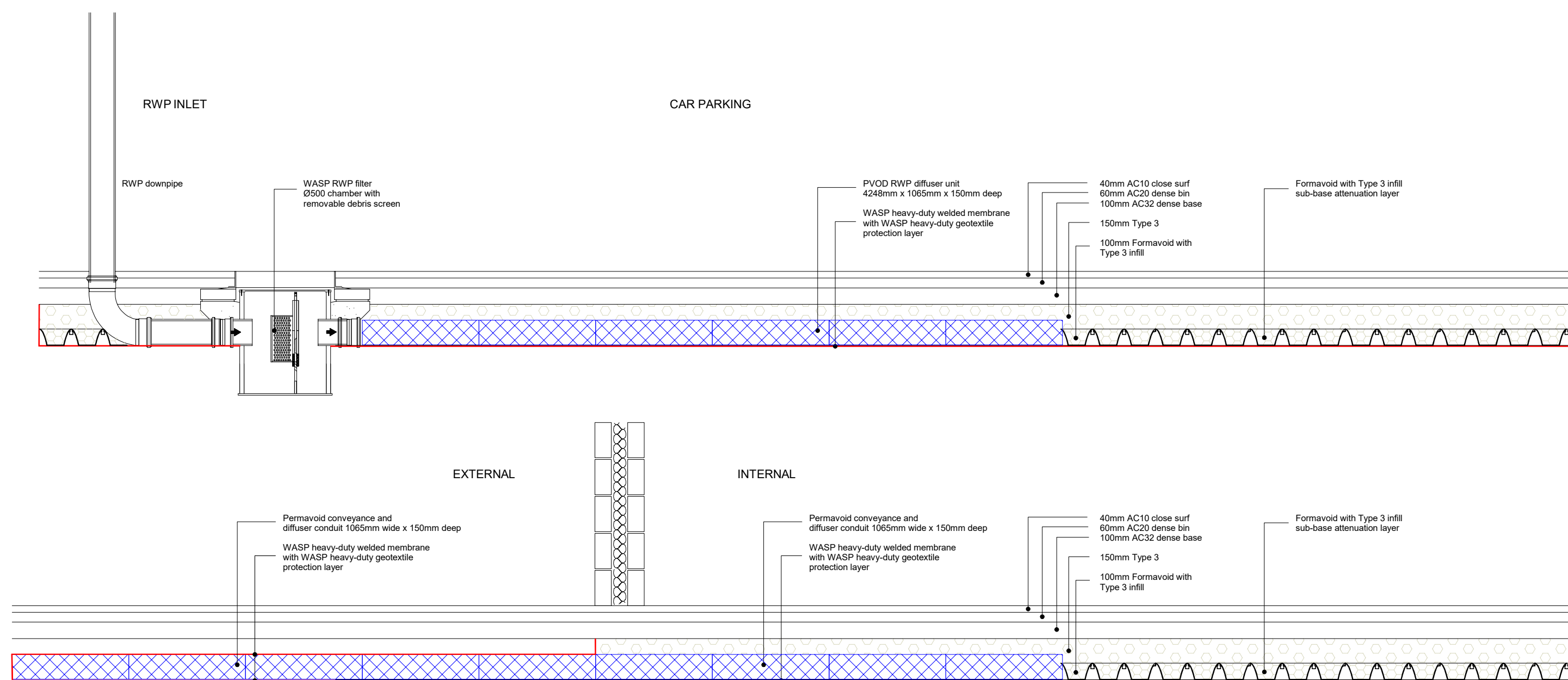
PHYSICAL	
Unit Dimensions	577mm (L) x 577mm (W) x 100mm (D) 3 units per m ²
Unit Weight	1.5kg
Void Ratio	75% <i>When filled with 30% void aggregate with 50mm cover</i>
Vertical Compressive Strength	>1,200kN/m ² <i>When filled with 30% void aggregate with 150mm cover</i>

PACKAGING

Pallet Size	1.2m (L) x 1.2m (W) x 1.2m (H)
Pallet Weight	195kg
Packaging	Rigid Card Corners & Shrink Wrap
Pallet Capacity	120nr / 40m²
Storage Guidance	Suitable to be stacked - maximum 4nr pallets high. Where possible prevent direct exposure to sunlight during long periods of storage.

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CLASS 8 BED & SURROUND

Backfill with selected subbase-as-dug material up to formation level

Heavy compacted of the main backfill material shall be applied until the pipe has minimum cover to the crown of 250mm. The main backfill material shall be divided into compacted layers not greater than 250mm thick, unless stated otherwise.

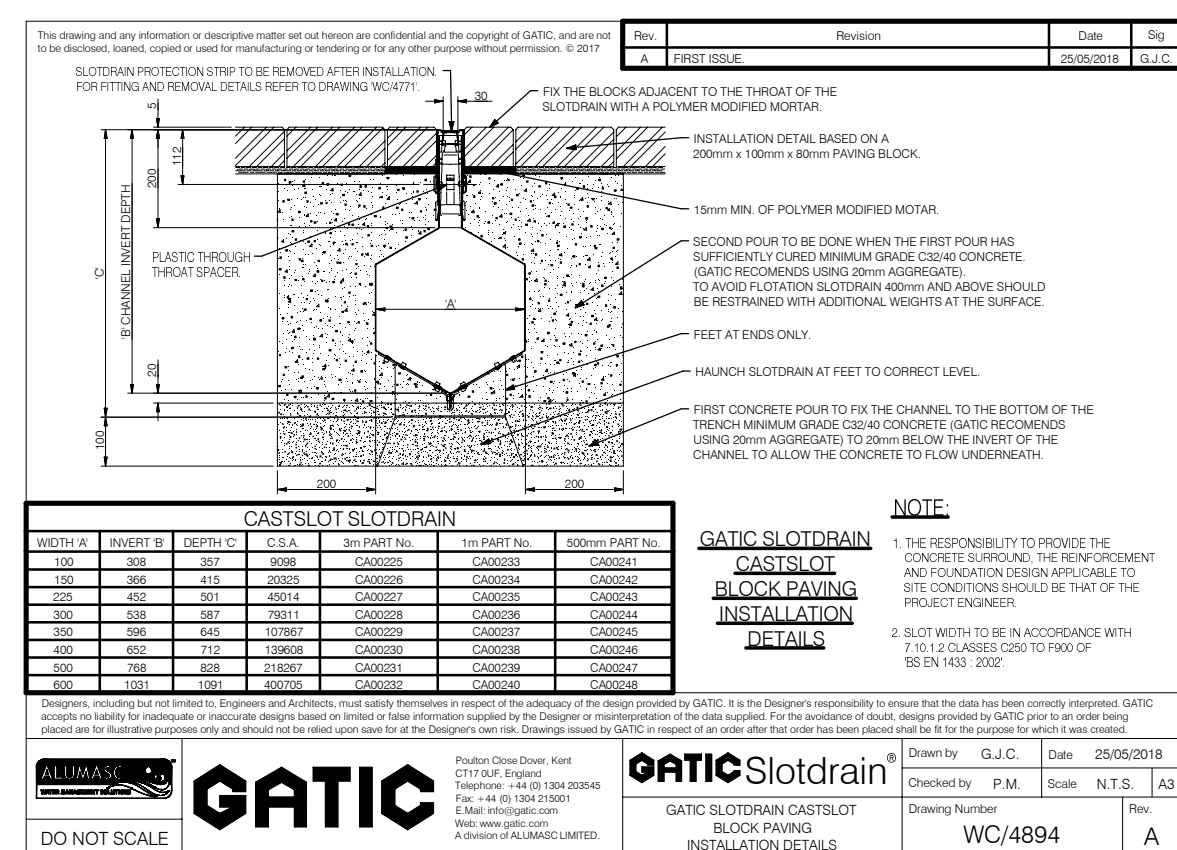
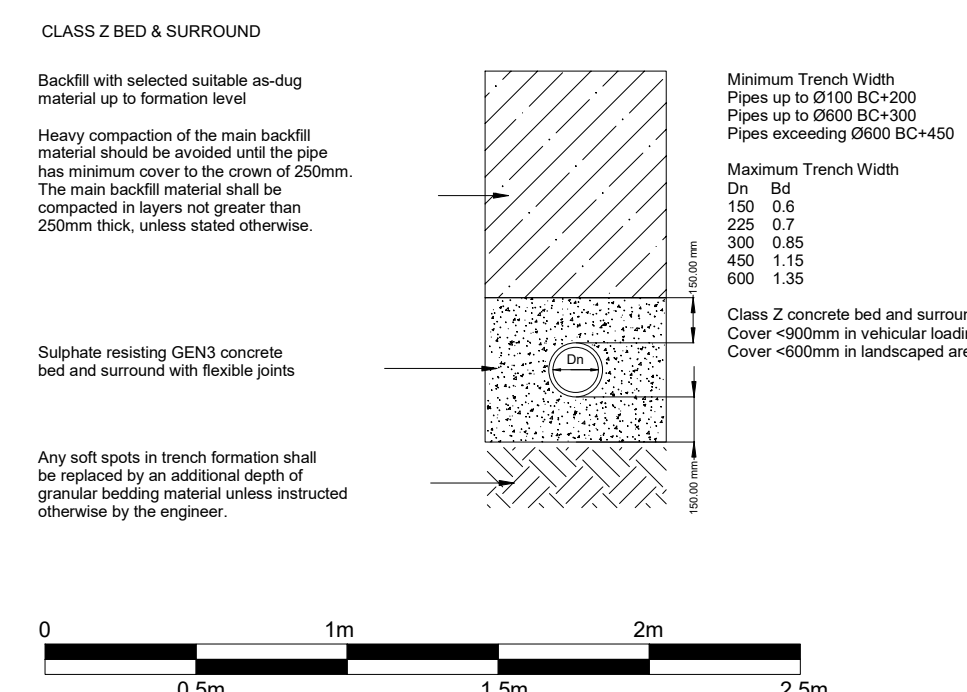
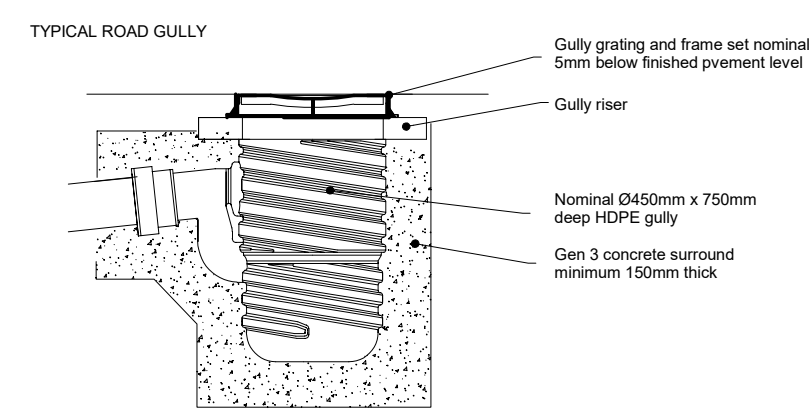
Well compacted pipe bedding material

Minimum Trench Width	
Pipes up to Ø100 BC-200	100
Pipes up to Ø600 BC-300	225
Pipes exceeding Ø600 BC-450	300

Maximum Trench Width	
Nd	100
Dd	150
225	0.7
300	0.85
450	1.15
600	1.35

Class 8 granular bed and surround
 Cover > 250mm in vehicular loading area
 Cover > 400mm in landscaped areas

Nominal Pipe Size Dn	Pipe Bedding Requirement Size of Aggregate mm
150	10 or 14 nominal single size or 14 to 5 graded
225-525	10, 14 or 20 nominal size or 14 to 5 graded or 20 to 5 graded
>525	10, 14, 20 or 40 nominal single crushed rock or 14 to 5 graded or 20 to 5 graded or 40 to 5 graded



NOTES

GENERAL

This drawing is to be read in conjunction with all relevant Engineers and Architects drawings.

For setting out refer to Architects drawings

All dimensions are in millimetres and levels are in metres unless noted otherwise.

Contractor to take all relevant dimensions on site

Any discrepancies to be advised to the Engineer.

Contractor to check/scan for services prior to construction to avoid any damage during works.

DRAINAGE

Any information given on this drawing regarding existing services is believed to be correct.

The contractor must check this information and determine the nature and location of other existing services from the various statutory authorities before commencing excavation works.

Drainage works to be constructed in accordance with BS EN 752 and Approved Document H.

All soft spots and unacceptable material encountered in drainage excavations is to be removed and replaced with granular material to the requirements of the building control officer.

Pipes to be installed to manufacturers recommendations

Pipes under buildings to be laid to a fall of 1:40 minimum unless noted otherwise.

Plastic plain wall pipes to be PVC-U to BS EN 1401-1, class SN4, with flexible joints Kitemark certified. Structured wall plastic pipes to be to WIS 04-35-01, Kitemark certified

Clay pipes to be vitrified clay to BS EN 295-1, with flexible joints, Kitemark certified. Clayware pipes must be extra strength classification protected in accordance with the specified details.

Bedding of pipes to be in accordance with approved document H1.

Rocker pipes with flexible joints are to be provided at a distance of 150mm and 750mm from the face of construction to manholes, where pipes pass above, below or through ground beams or foundations; at gully connections and soil stack ends.

Manhole access covers are to be located at the outgoing side of manholes

Cover levels are to be fixed on site to suit finished levels. Covers and frames EN124, Grade D to be used in areas subject to heavy vehicular loading, Grade C in areas subject to light vehicular loading and Grade B to be used elsewhere.

P01	First issue	16/05/2022	MG	JS
REV.	DESCRIPTION	DATE	DRW.	CHK.

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PROJECT

North Manchester General Hospital

TITLE

MSCP SW Drainage Sections

STATUS S3	PURPOSE OF ISSUE Planning		
DRAWN BY MG		CHECKED BY JS	DATE 16/05/2022
SCALE (@A1) NTS		PROJECT NUMBER 20200 MSCP	
FILE DRAWING NUMBER 20200-SEL-NM110-EX-DR-Y-0011			REV. P01