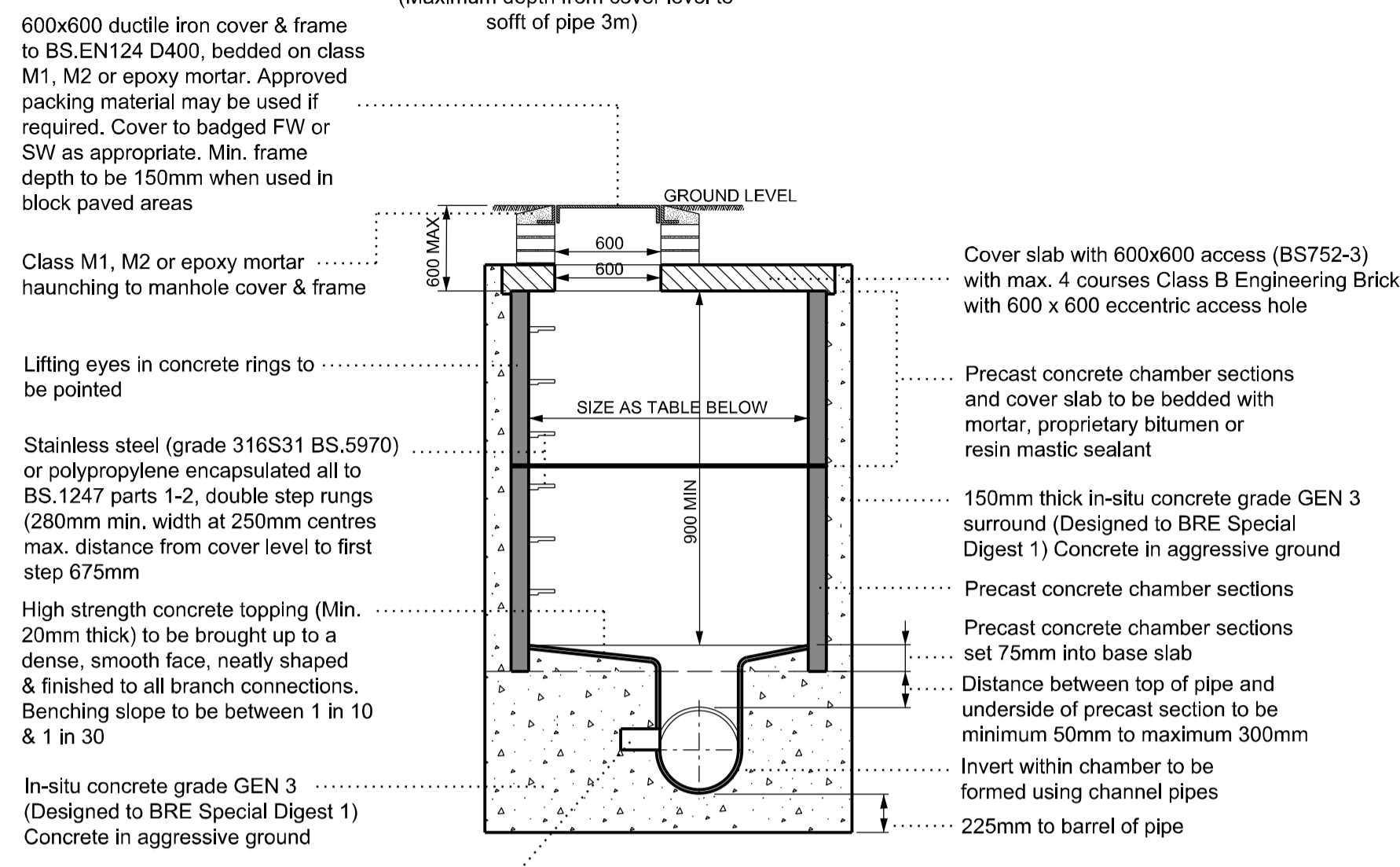
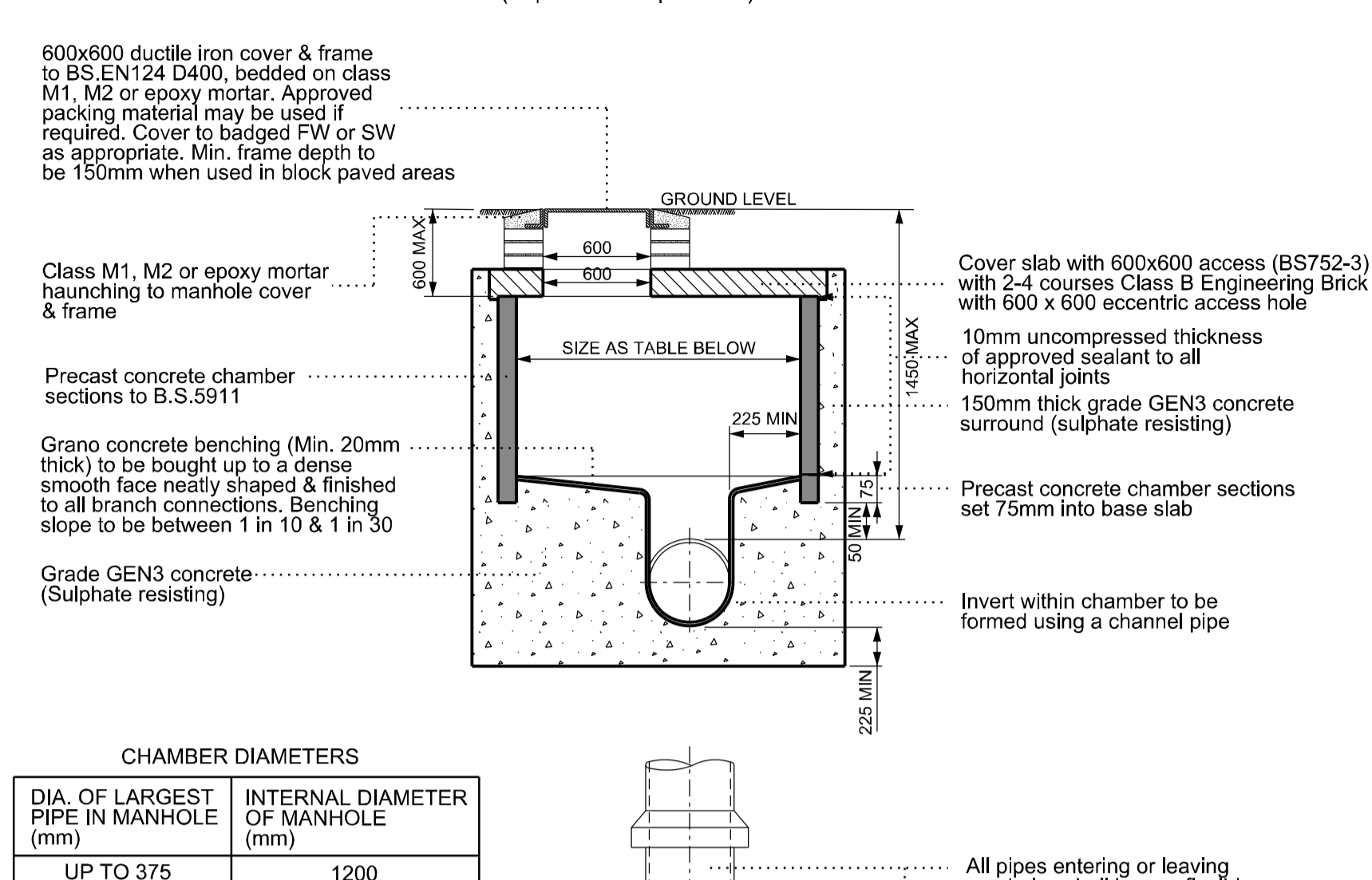


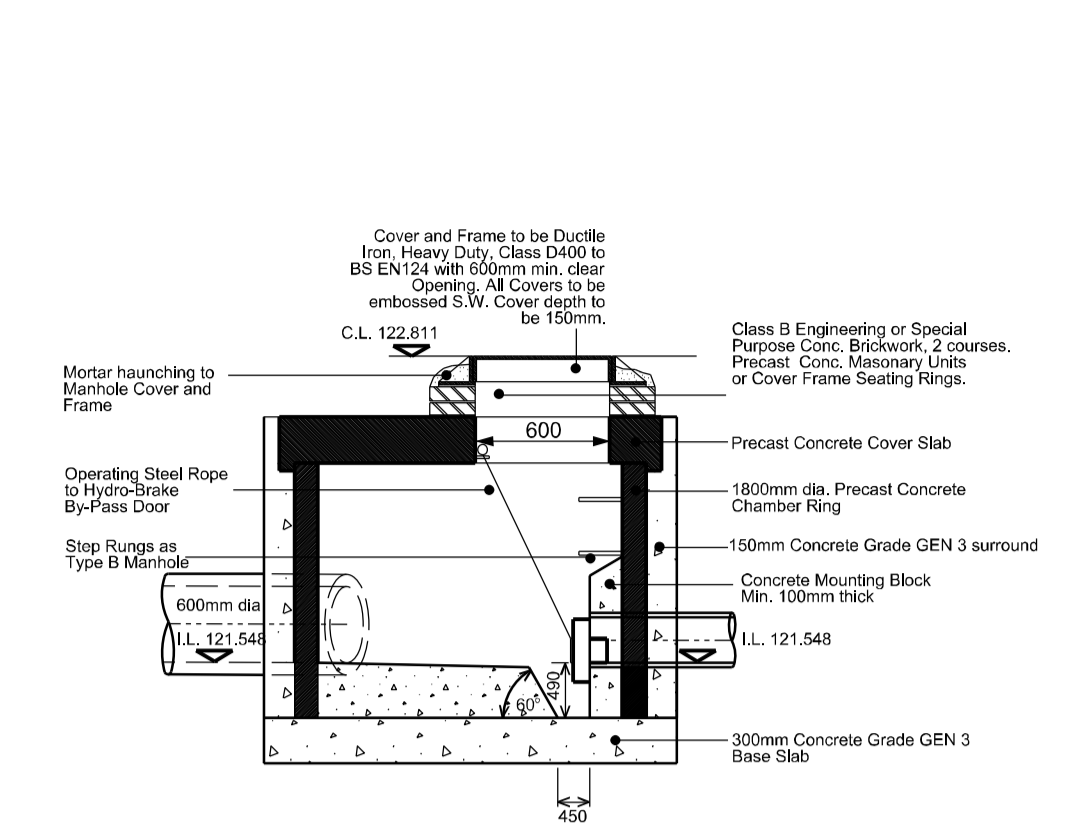
TYPICAL MANHOLE DETAIL TYPE B



TYPICAL MANHOLE DETAIL TYPE X (NON ACCESS)



CONTROL CHAMBER



Notes

- Contractors must check all dimensions on site. Only figured dimensions are to be worked from. Discrepancies must be reported to the Architect or Engineer before proceeding. © This drawing is copyright
- All works to be undertaken in accordance with Sewers for Adoption 6th Edition with any Anglian Water additions or deletions

CHAMBER DIAMETERS

DIA. OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200
375 TO 700	1500
750 TO 900	1800

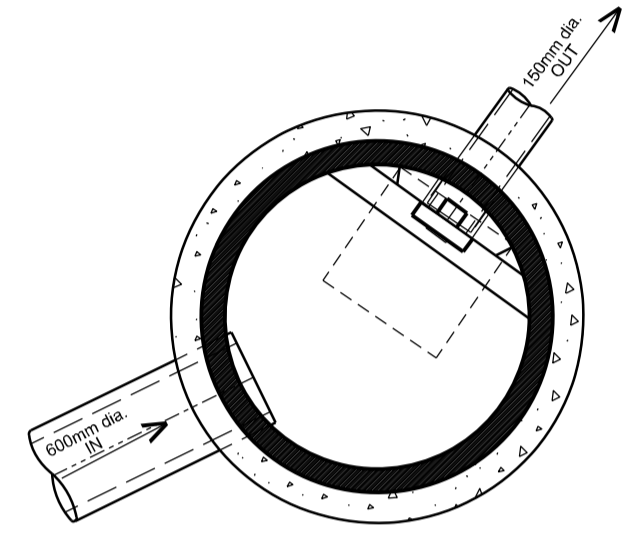
ROCKER PIPES

SEWER DIAMETER (mm)	EFFECTIVE LENGTH (mm)
150 TO 600	600
601 TO 750	1000
OVER 750	1250

CHAMBER DIAMETERS

DIA. OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
UP TO 375	1200

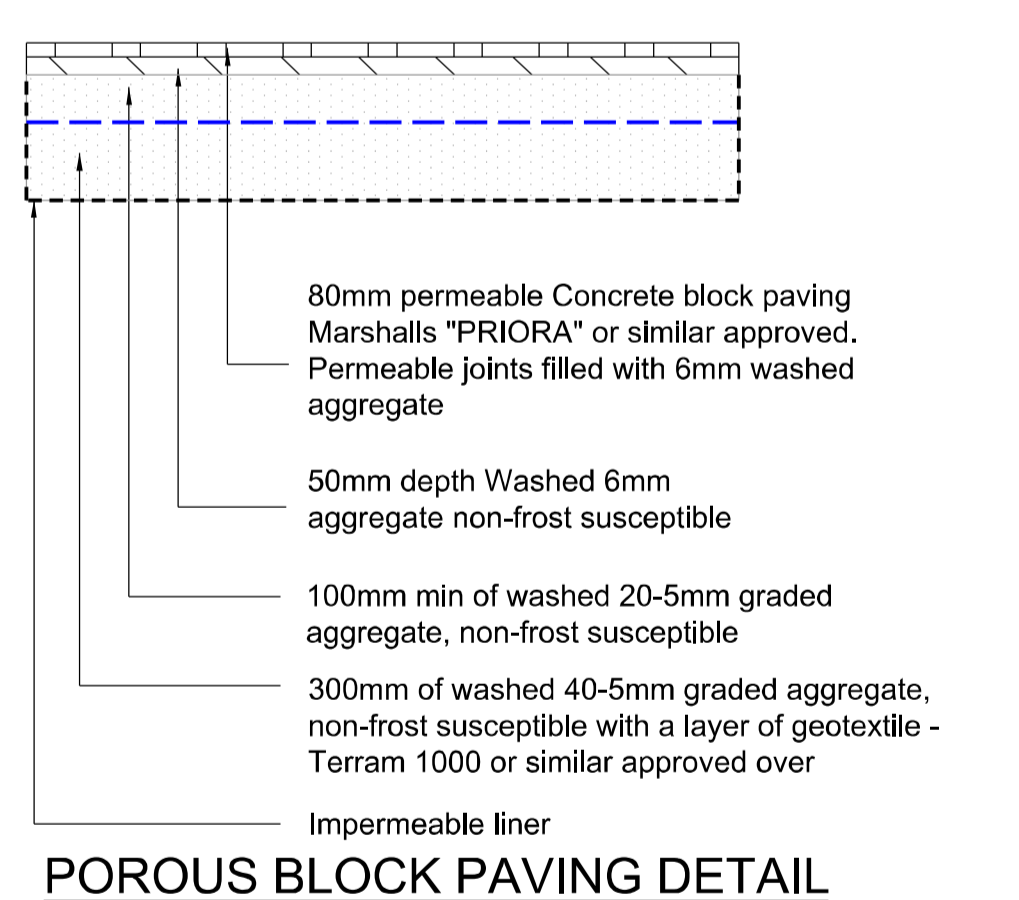
Notes:-
Where the pipe diameter is 375mm or greater, a 1500mm ring should be used.



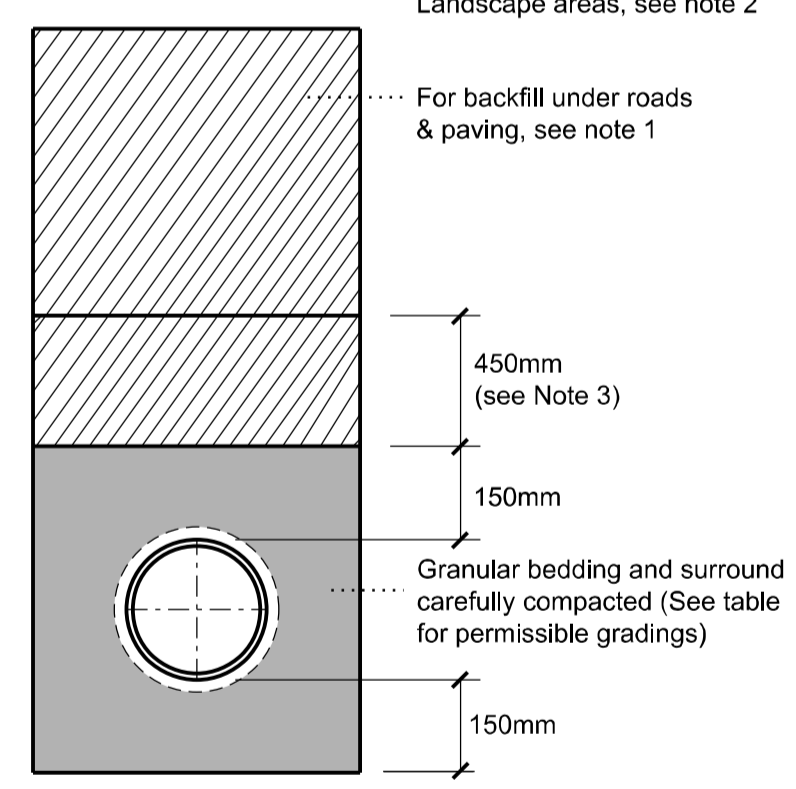
HYDRO-BRAKE MOUNTING BLOCK

Notes.

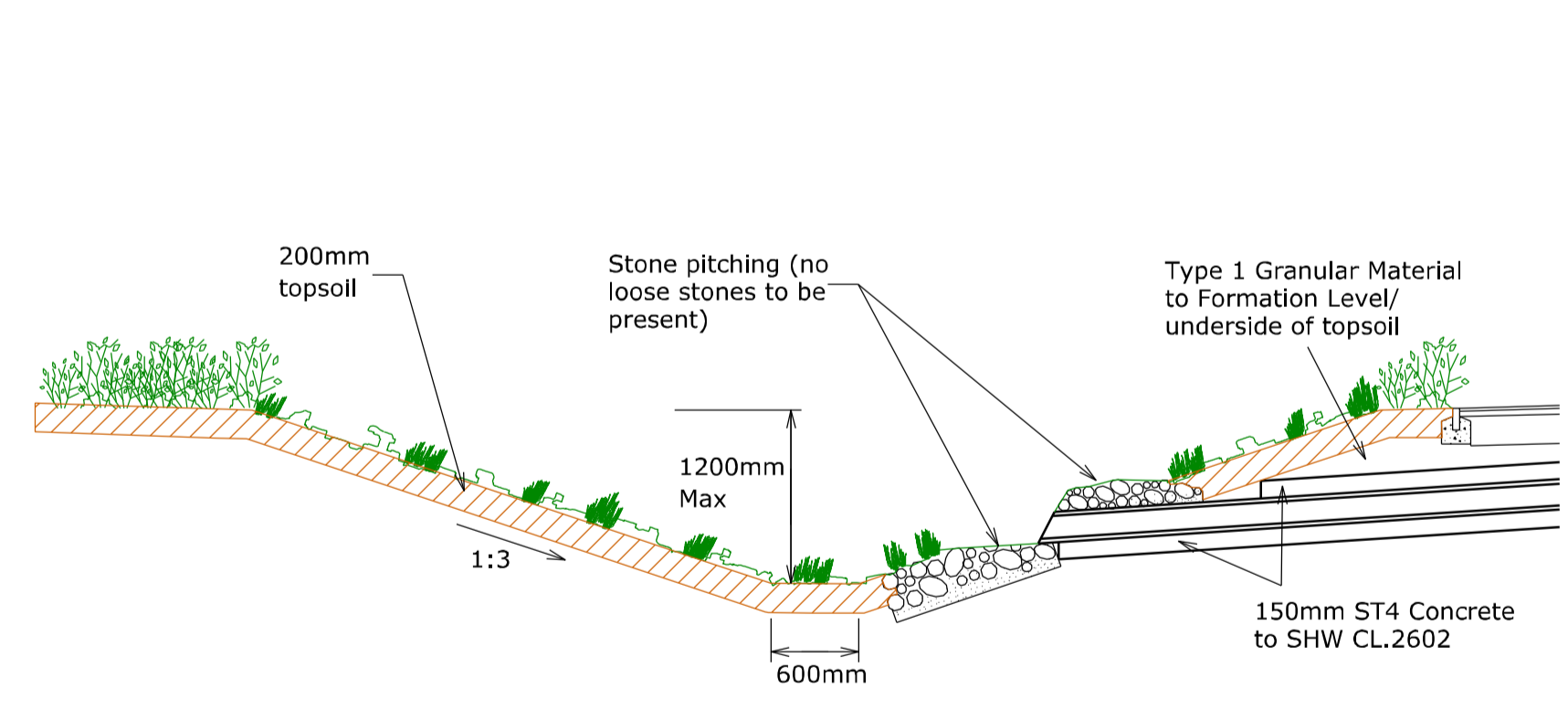
- Backfilling under roads and paving: Backfill from top of granular bedding up to formation level with Granular Subbase Material Type 1 to Highways Agency specification for Highway Works 1998 Clause 603, laid and compacted in 150mm layers.
- Backfilling under landscaped areas: Backfill from top of granular bedding up to underside of topsoil with selected Class 1B material. Class 1B fill whether selected from locally excavated material or imported, shall consist of uniform readily compactible material, free from vegetable matter, building rubbish and frozen material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 and materials of excessively high moisture content. Clay lumps and stones retained on 75mm and 37.5mm sieves respectively shall be excluded from the fill material. Laid and compacted in layers not exceeding 300mm.
- Do not use heavy compactors before there is 600mm of material over pipe.



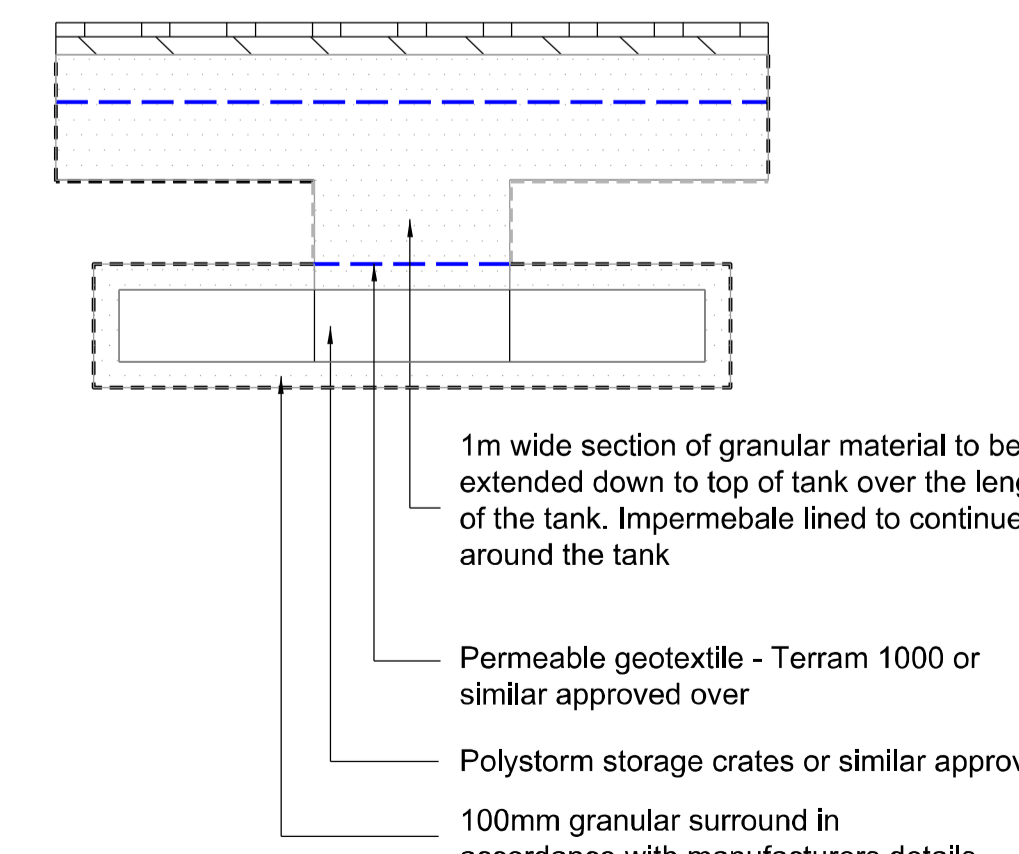
POROUS BLOCK PAVING DETAIL



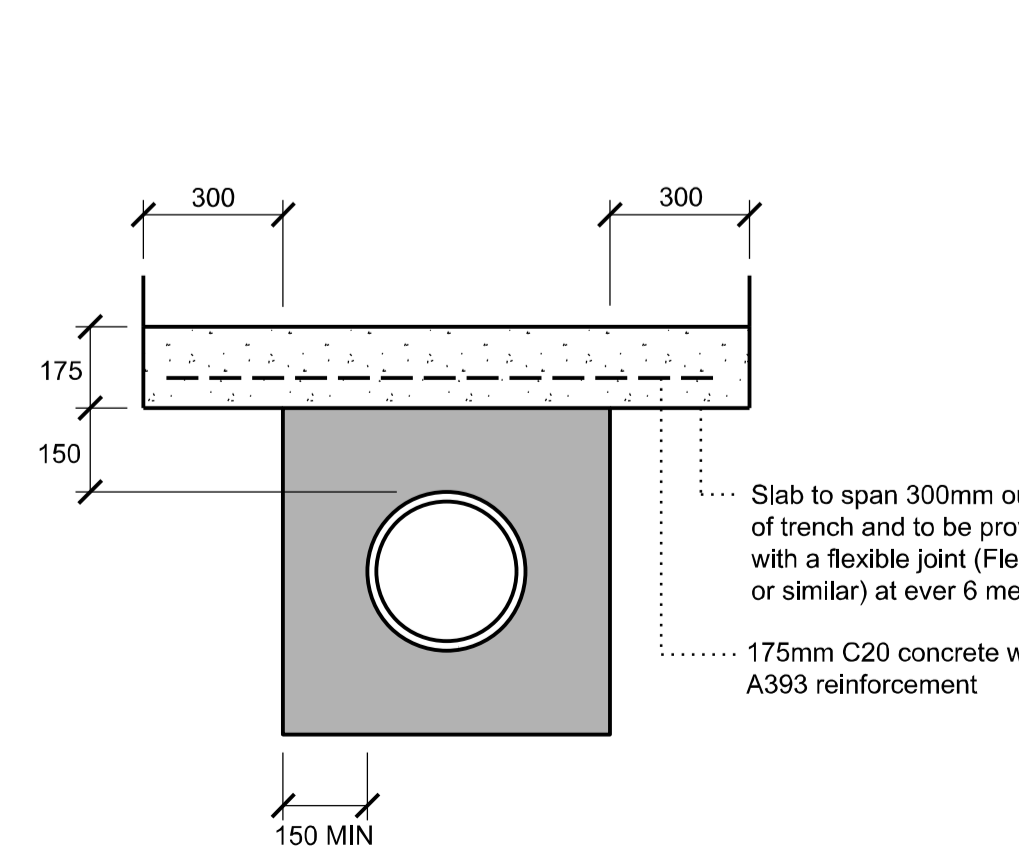
CLASS S BEDDING DETAIL (Rigid Pipes)



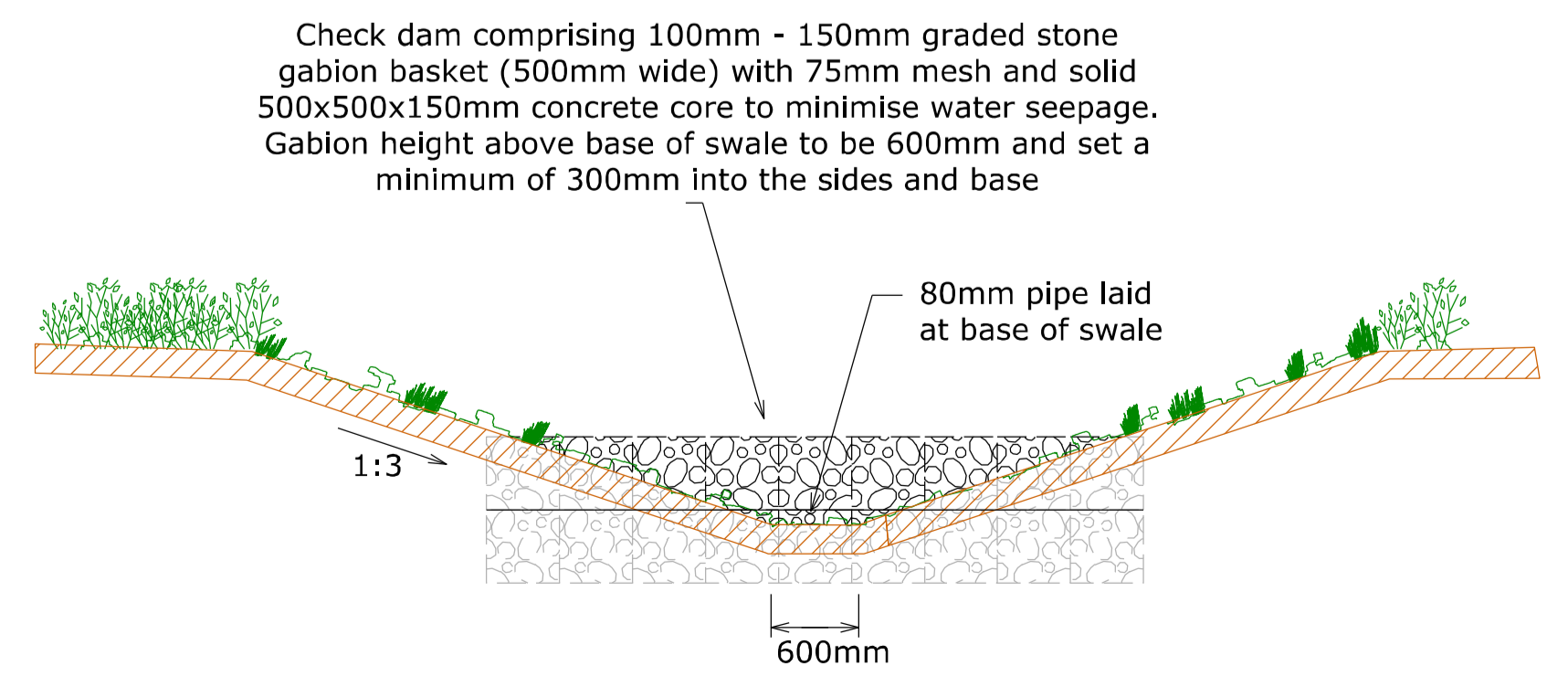
TYPICAL SWALE DETAIL



POROUS DETAIL OVER STORAGE TANK



CLASS S(S) CONCRETE PROTECTION



TYPICAL CHECK DAM DETAIL

Table - Granular bedding and sidefill materials for rigid pipes

Pipe Nominal Bore (DN)	Maximum Particle Size (mm)	Class of Bedding	Suitable materials	
			Imported granular materials (Note a)	Maximum CF value for as-dug granular material (Note b)
100	10	S	10mm nominal single-size	0.15
		B	10mm nominal single-size	0.30 (Note c)
		N	Course, Medium or fine sand	0.15
Over 100 to 150	15	S	14mm to 5mm graded	0.15
		B	14mm to 5mm graded	0.30 (Note c)
		F	14mm to 5mm graded	0.15
Over 150 to 500	20	S	All in aggregate or coarse medium or fine sand	0.15
		B	14mm to 5mm graded or 20mm to 5mm graded	0.30 (Note c)
		F	14mm to 5mm graded or 20mm to 5mm graded	0.15
Over 500 (Note d)	40	S	14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded	0.15
		B	14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded	0.30 (Note c)
		N	All in aggregate or coarse medium or fine sand	0.15

Notes

- Imported granular materials to include aggregates to BS 882, air-cooled blast furnace slag to BS 1047 and sintered pulverized-fuel ash to BS 3797. Compaction fraction value, See Appendix A
- The higher the CF value for as dug bedding and sidefill materials the greater the required effort for adequate compaction.
- Angular materials should be chosen to ensure sufficient support is provided to these heavier pipes. Crushed rock aggregates to BS 882 are recommended. Air-cooled blast furnace slag to BS 3797 or other granular materials may be used if they show a similar degree of angularity

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UPPER HEYFORD

BOVIS SHOW HOMES
TYPICAL DRAINAGE DETAILS

Scale: N.T.S @ A1 Date: JUNE 2013 Drawn: SD Chk: JF

Please consider the environment before printing this drawing

HEYF/5/602 F