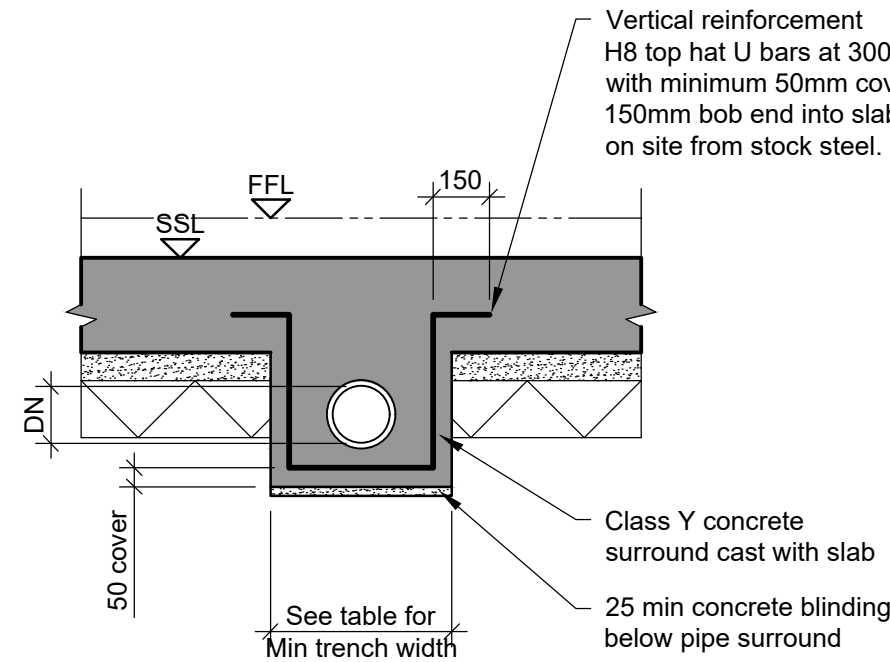
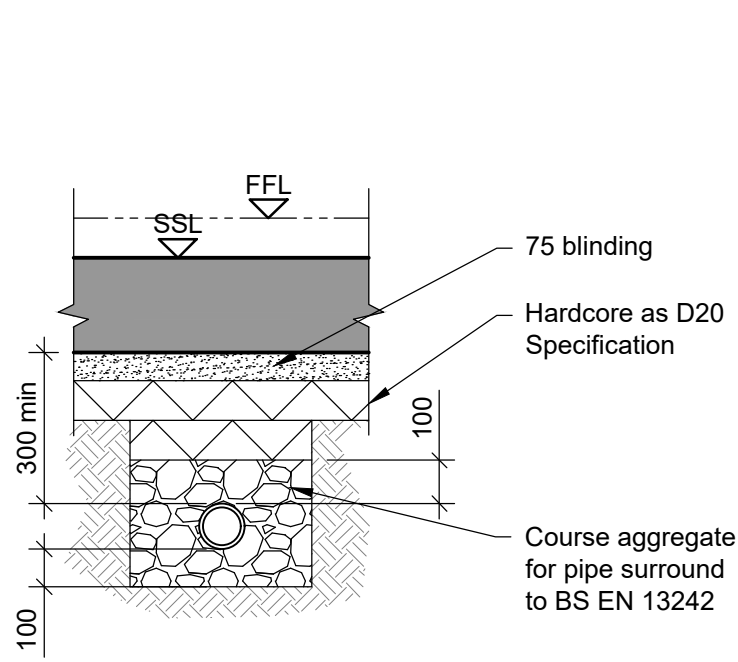
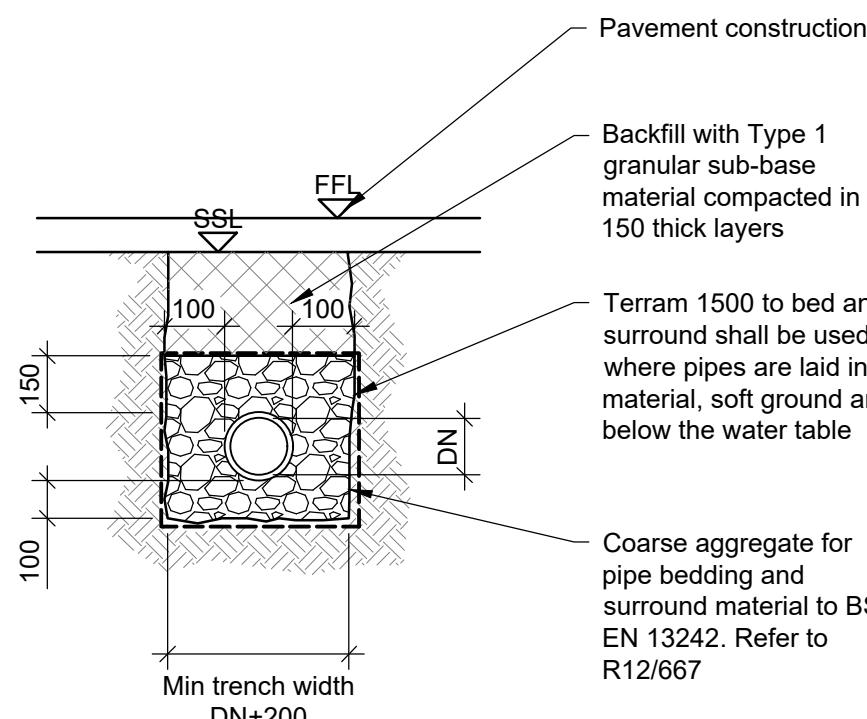




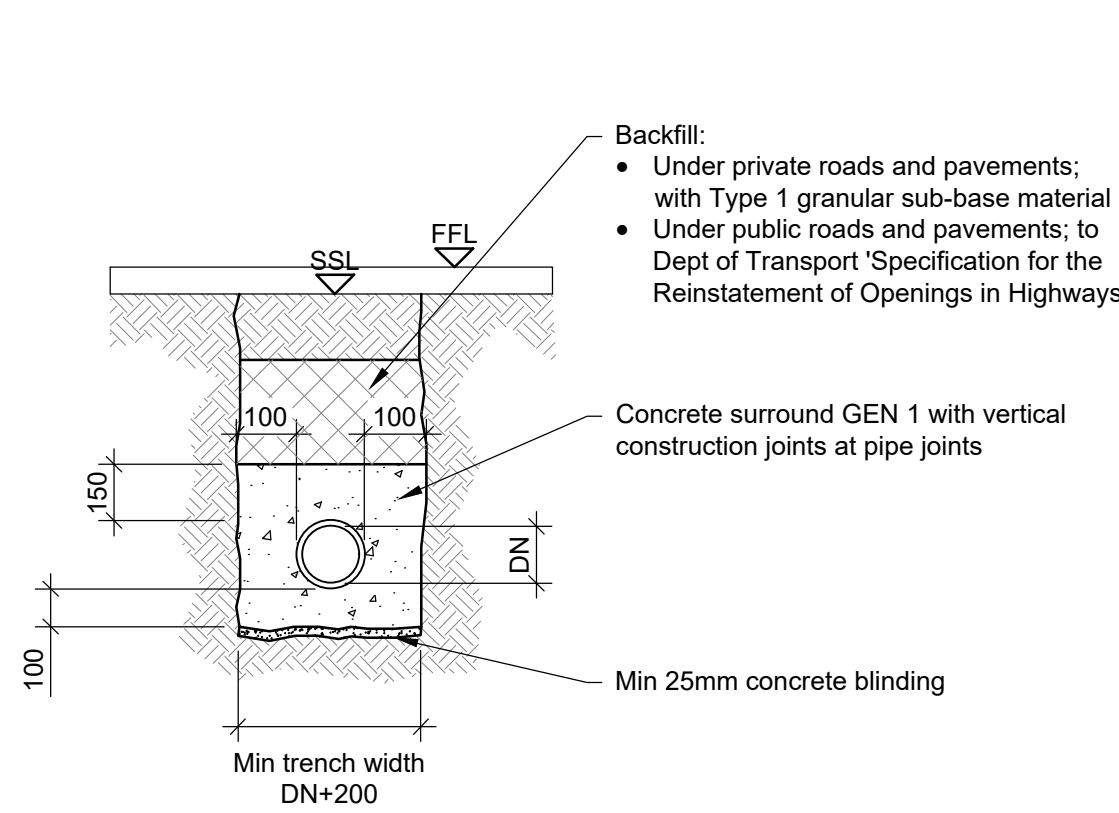
CLASS Y SURROUND
FOR PIPES WITH CROWN <300 UNDER BUILDING



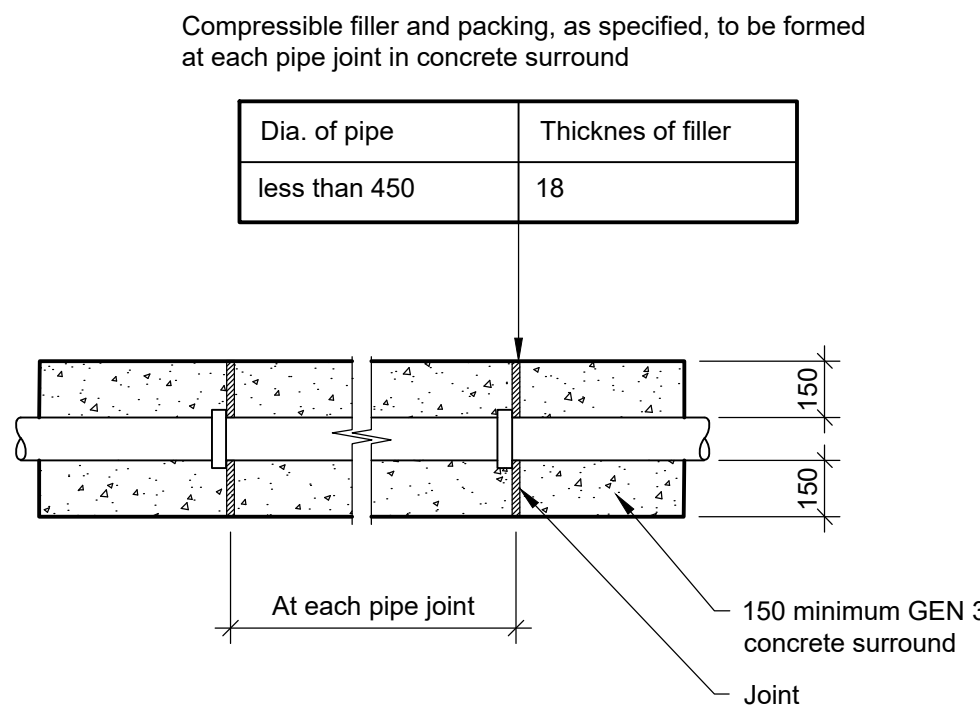
CLASS W SURROUND
FOR PIPES WITH CROWN >300 UNDER BUILDING



CLASS S SURROUND
GRANULAR SURROUND & BACKFILL FOR AREAS SUBJECT TO VEHICLE LOADING FOR PIPES WITH > 600 COVER



CLASS Z SURROUND
COMPLETE CONCRETE SURROUND FOR EXTERNAL PIPES WITH < 600 COVER



CLASS Z SURROUND
FLEXIBLE JOINTS IN CONCRETE SURROUND

TABLE 1

DN	Minimum trench width (OD + x)		
	Supported trench	Unsupported trench	
		# > 60°	# < 60°
less 225	600	600	600
225 to 350	800	800	800
350 to 700	OD + 700	OD + 700	OD + 400
700 to 1200	OD + 850	OD + 850	OD + 400
greater 1200	OD + 1000	OD + 1000	OD + 400

In the values OD + x, x/2 equals the minimum working space between the pipe and the trench wall or support, where:
OD is external diameter.
is angle of unsupported trench side measured to the horizontal.

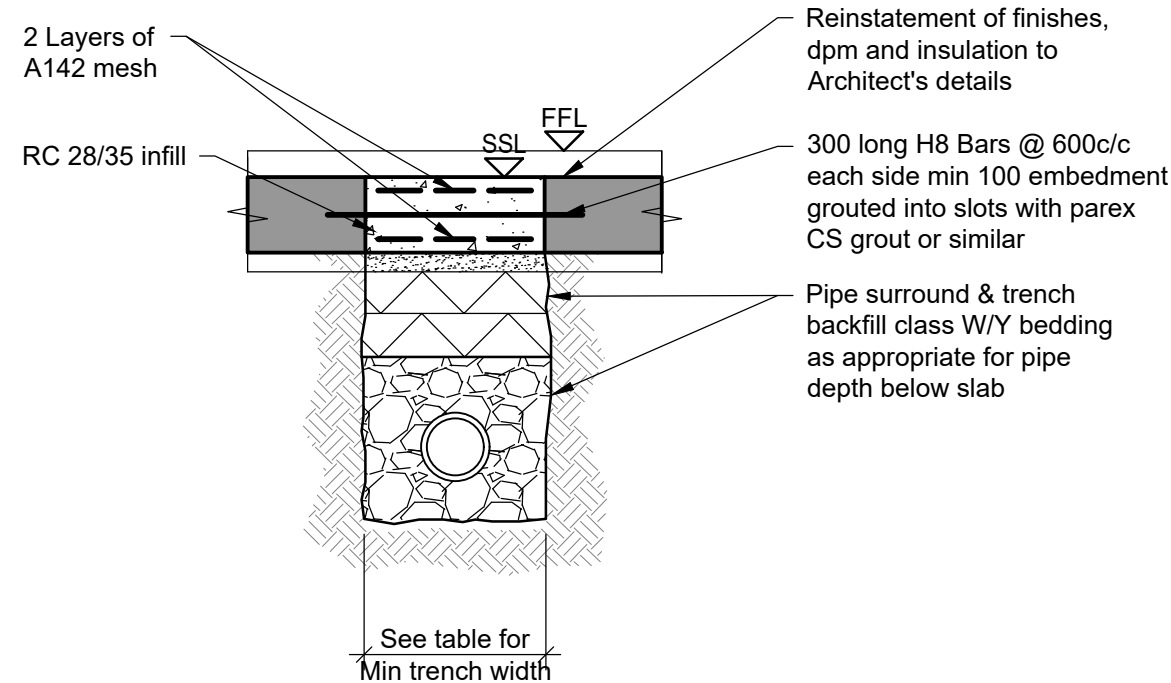
MINIMUM TRENCH WIDTH IN RELATION TO NORMAL SIZE DN

TABLE 2

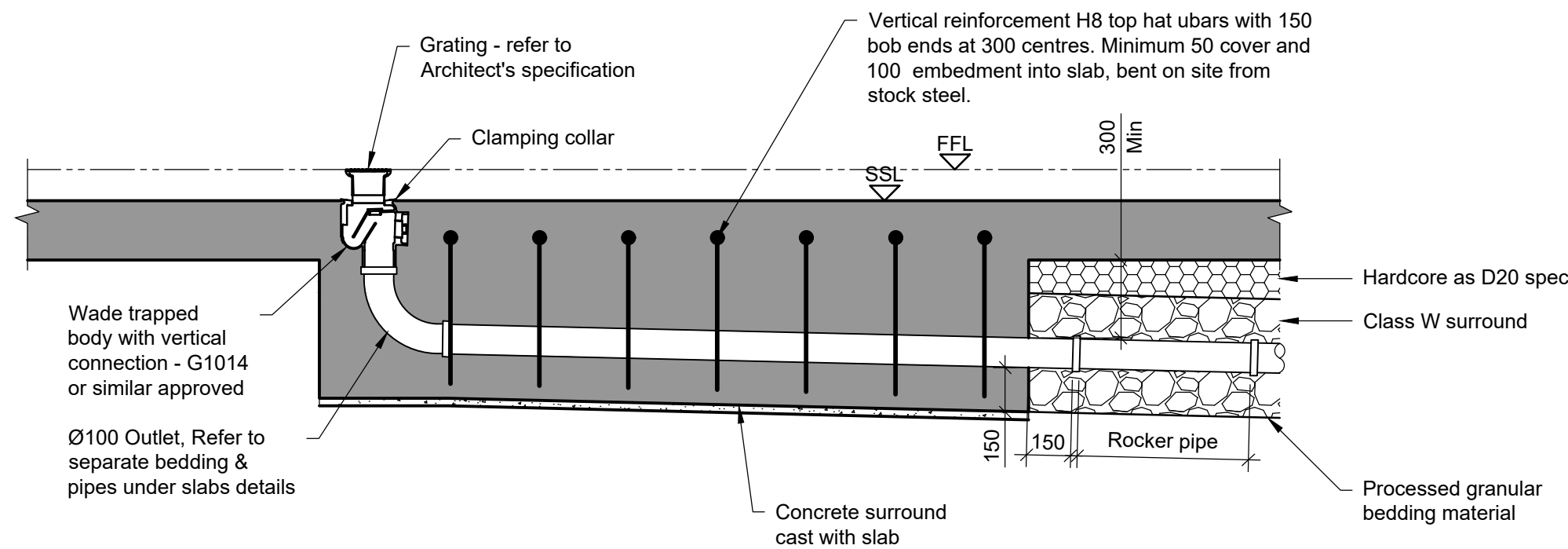
Trench depth	Minimum trench width
less 100	As Table 1
1000 to 1750	800
1750 to 4000	900
greater 4000	1000

The minimum trench width shall be the greater of the values taken from tables 1 & 2.

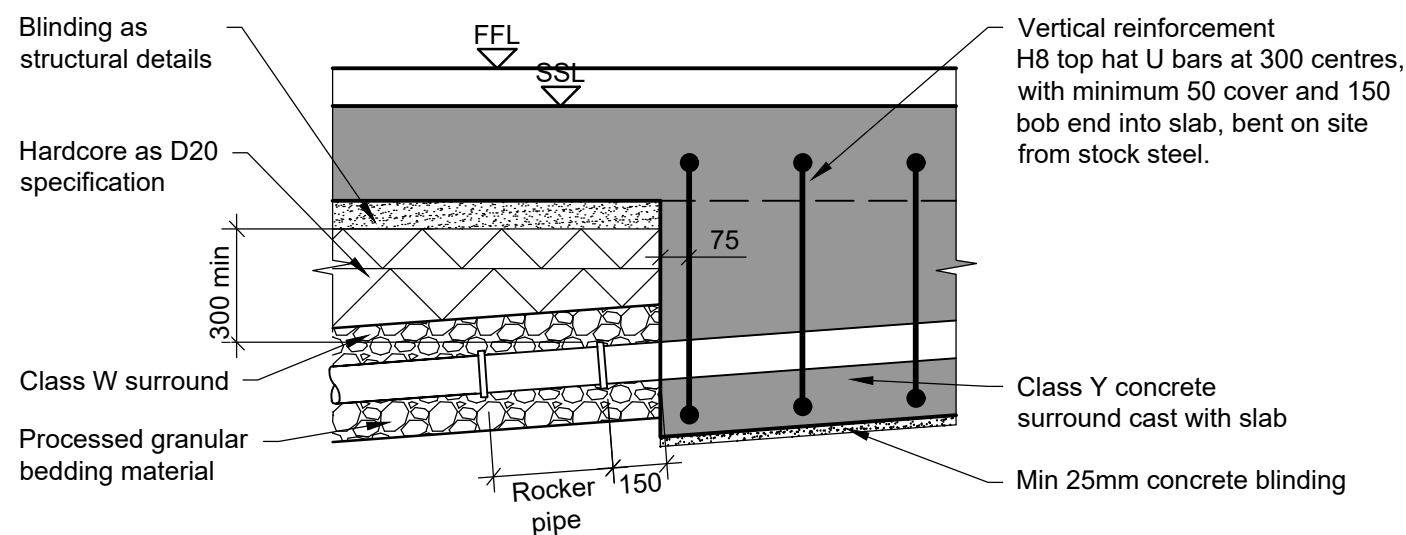
MINIMUM TRENCH WIDTH IN RELATION TO TRENCH DEPTH



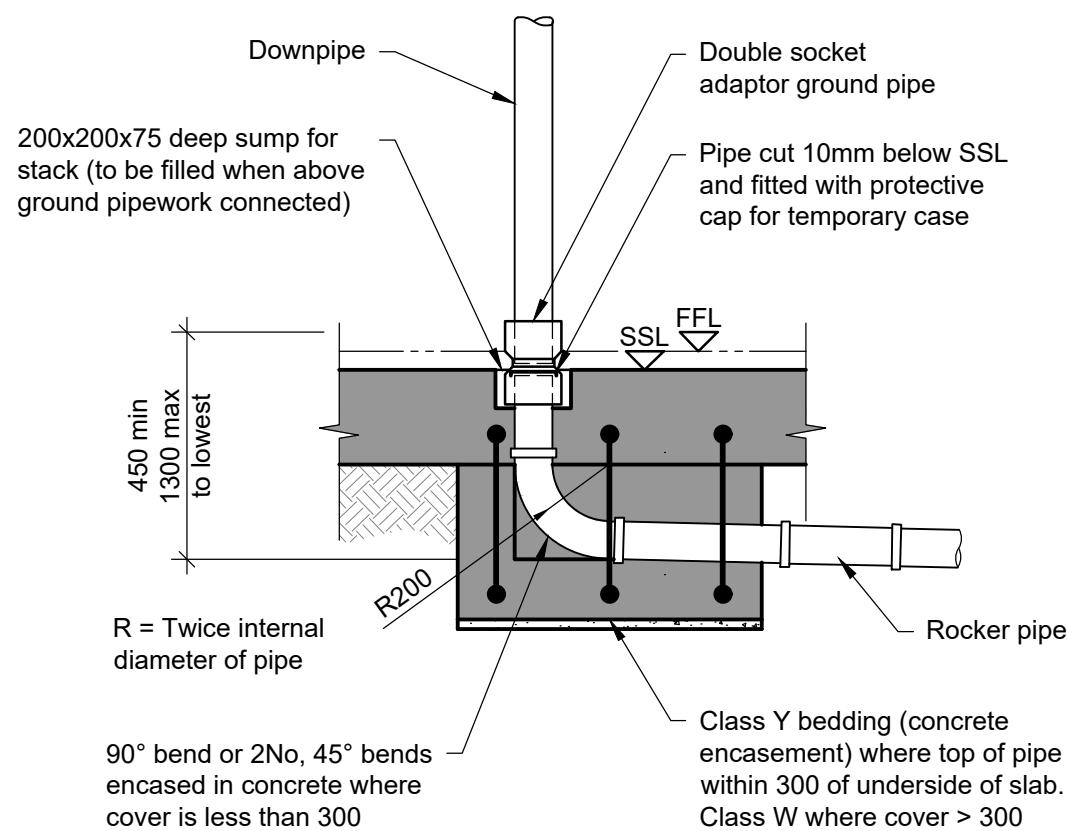
MAKING GOOD THE EXISTING SLAB



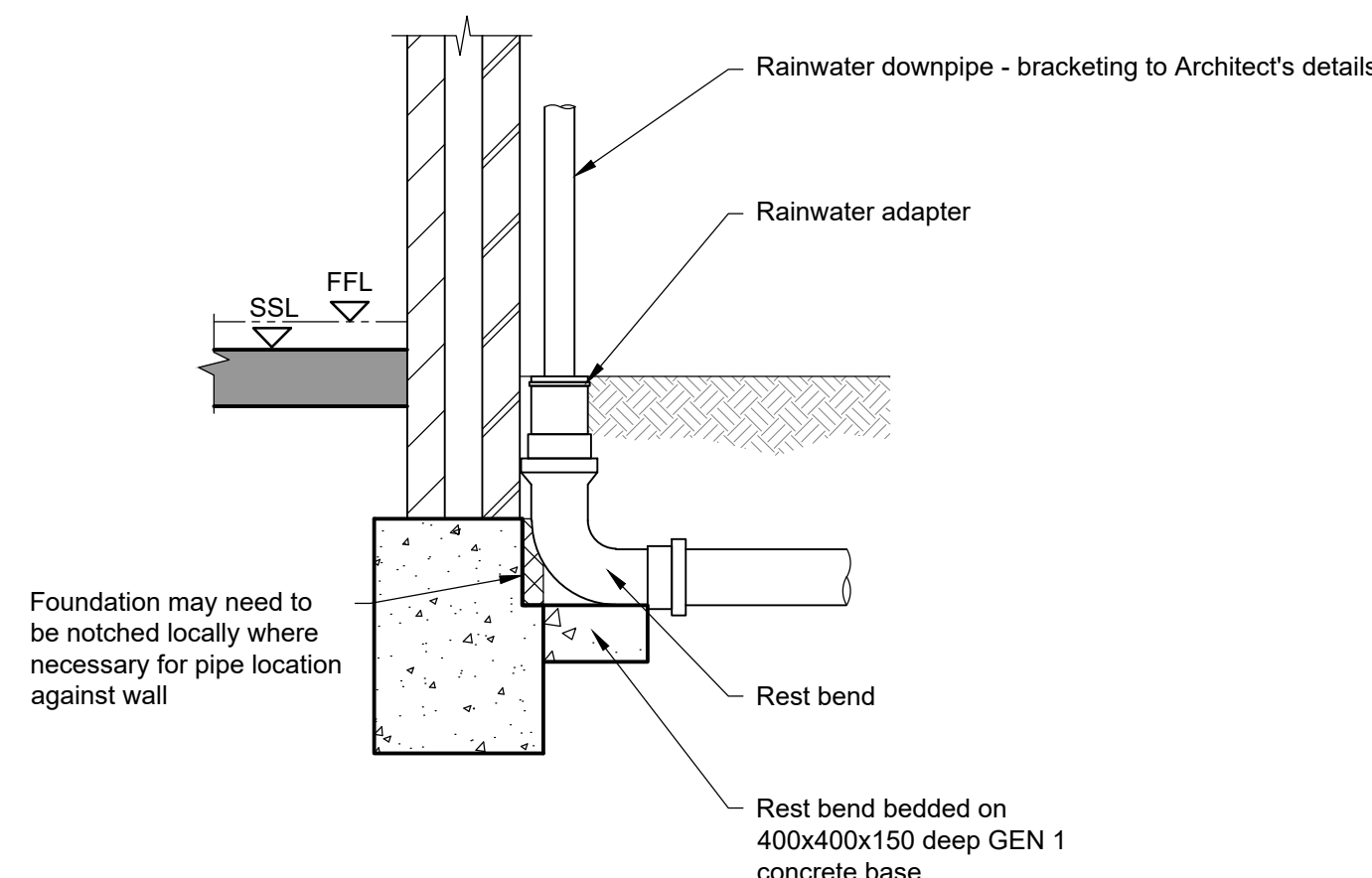
INDICATIVE INTERNAL FLOOR GULLY



TYPICAL DETAIL FOR PIPELINES UNDER SLABS: CLASS Y AND W SURROUND



TYPICAL FOUL STACK DETAIL



INDICATIVE EXTERNAL RAINWATER DOWNPIPE DETAIL

NOTES

- Co-ordination:** Read this drawing in conjunction with all relevant Architect's, Engineer's and specialist's drawings and specifications
- Scale:** Do not scale from this drawing, use written dimensions only. All dimensions are in millimetres and levels in metres. To check the drawing has been printed at the intended scale this bar should be 50mm long at A1 or 25mm long at A3.
- Health & Safety:** All specific drawing notes are to be read in conjunction with the Project Health & Safety Issues: Construction Stage document.
- General Notes:** Refer to drawing 31593-0002.

P01	07.07.25	KN	SRe	Issued for Stage 3
Rev.	Date	Drn.	Eng.	Amendment

THE PORTICO LIBRARY

BELOW GROUND DRAINAGE DETAILS

SHEET 1

Status
STAGE 3
NOT FOR CONSTRUCTION

Drawn	KN	Eng.	SRe
Scales	1:20 at A1	1:10 at A3	
Drawing No.	31593 / 6100	Rev.	P01

PRICE & MYERS

Consulting Engineers
020 7631 5128
mail@pricemyers.com
www.pricemyers.com

London Nottingham Oxford Manchester Bristol