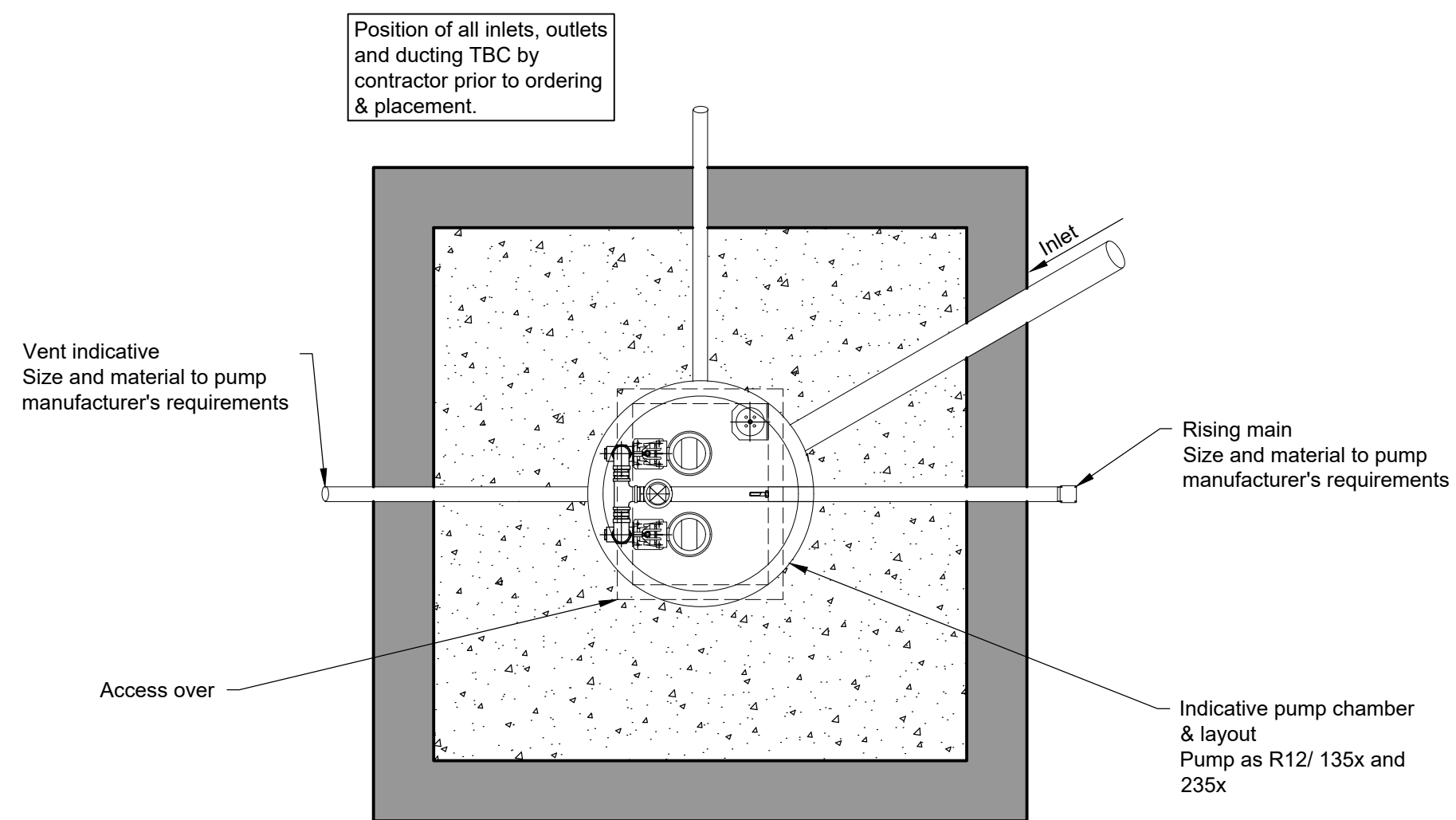


**GRP PUMP CHAMBER - SECTION VIEW**



**GRP PUMP CHAMBER - PLAN VIEW**

**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	
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.

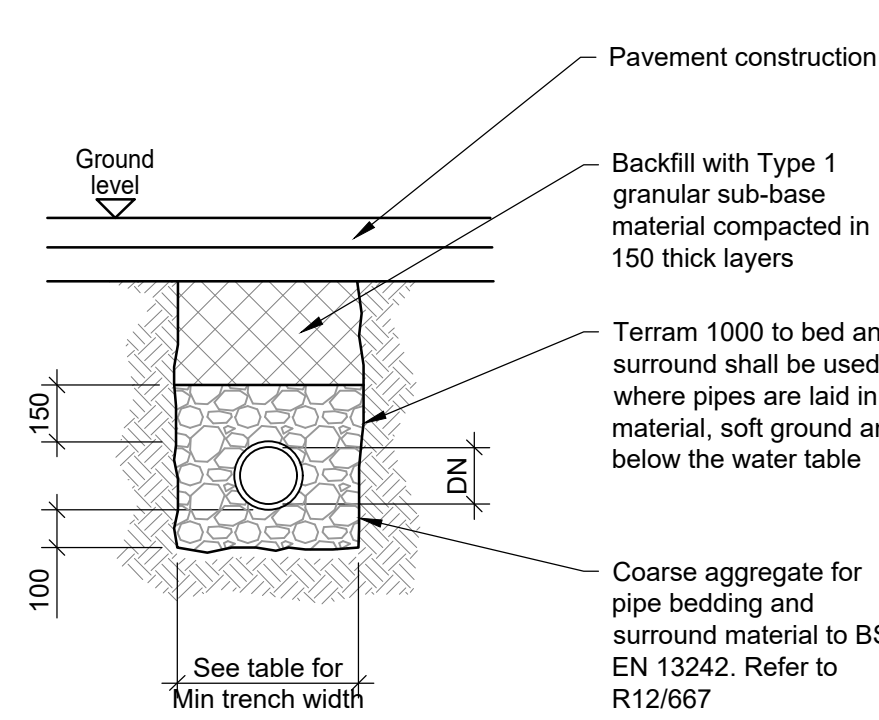
**MINIMUM TRENCH WIDTH IN RELATION TO NORMAL SIZE DN**

**TABLE 2**

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

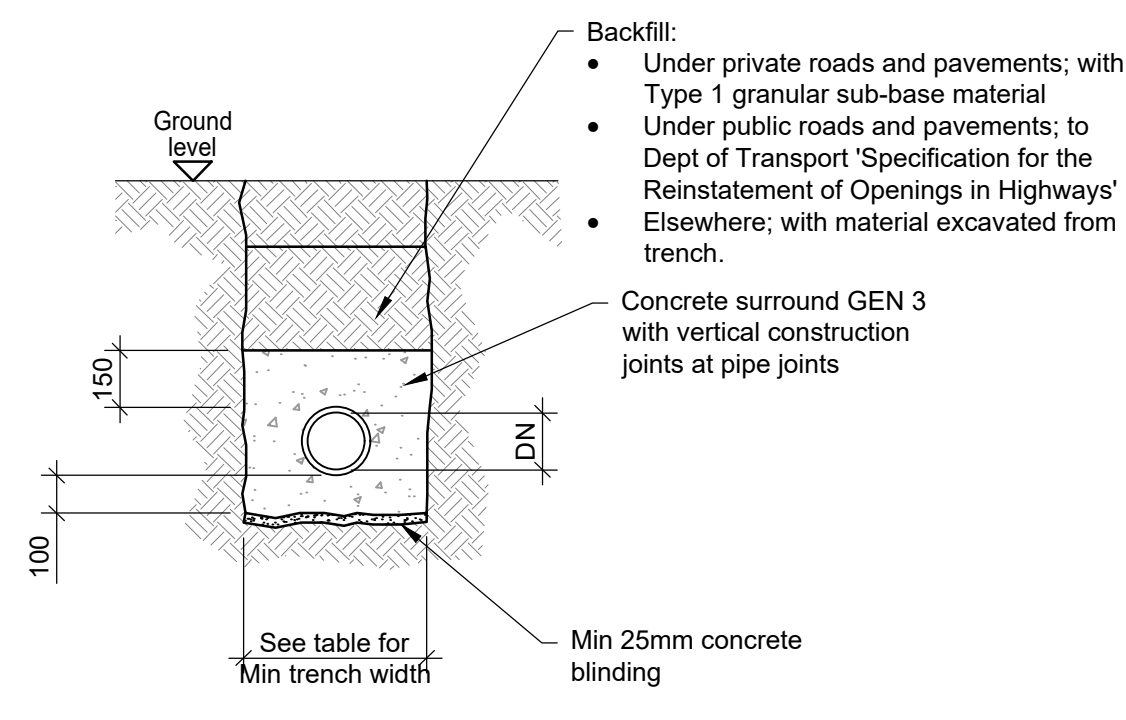
The minimum trench width shall be the greater of the values taken from tables 1 & 2.

**MINIMUM TRENCH WIDTH IN RELATION TO TRENCH DEPTH**



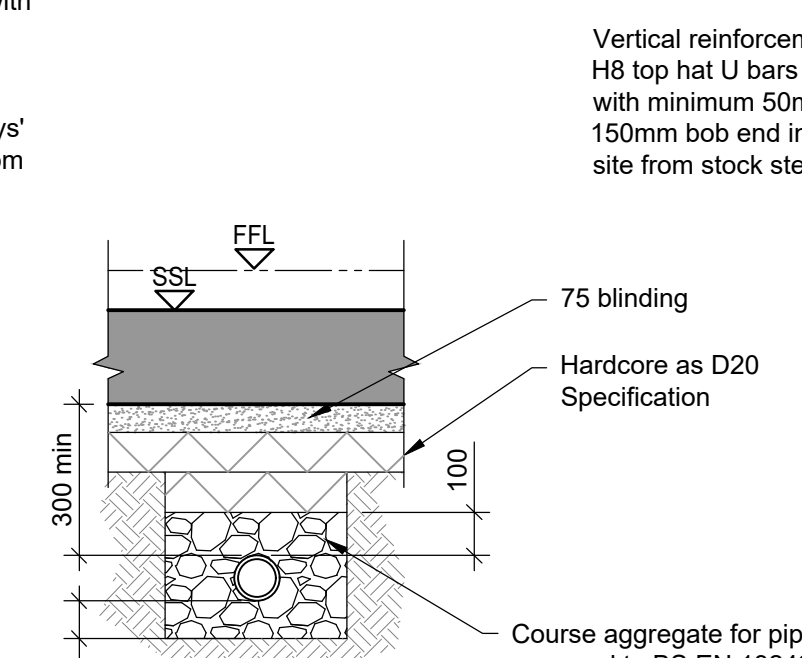
**CLASS S SURROUND**

GRANULAR SURROUND & BACKFILL FOR AREAS SUBJECT TO VEHICLE LOADING



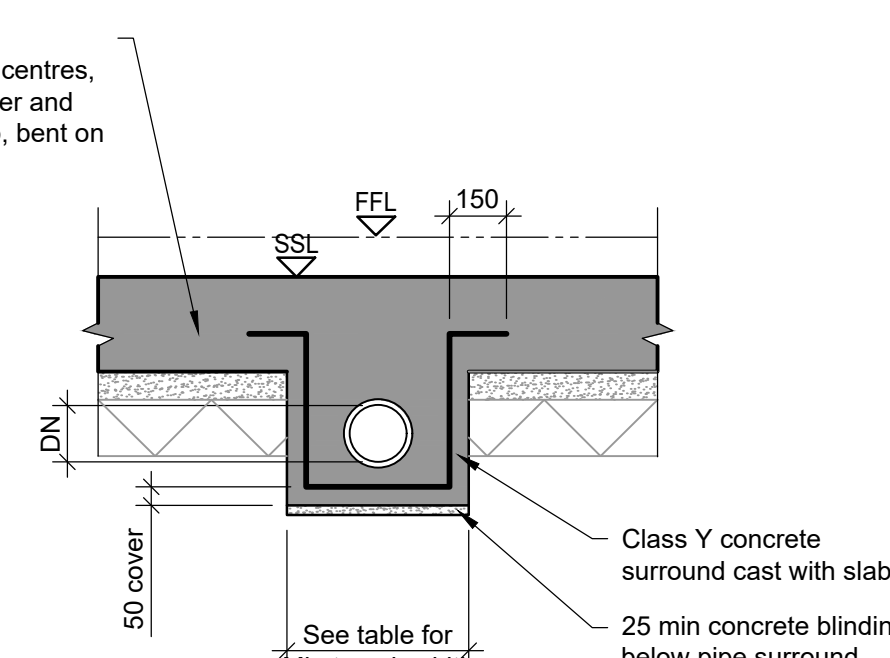
**CLASS Z SURROUND**

COMPLETE CONCRETE SURROUND



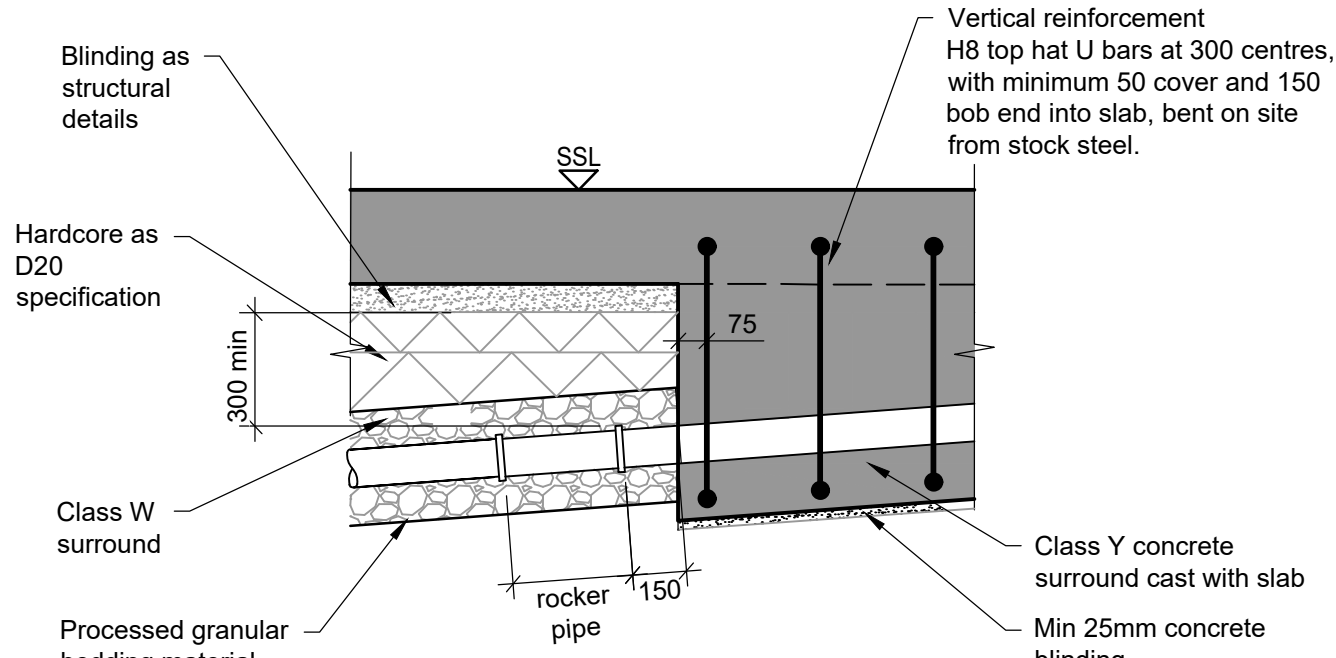
**CLASS W SURROUND**

FOR PIPES WITH CROWN >300 UNDER BUILDING

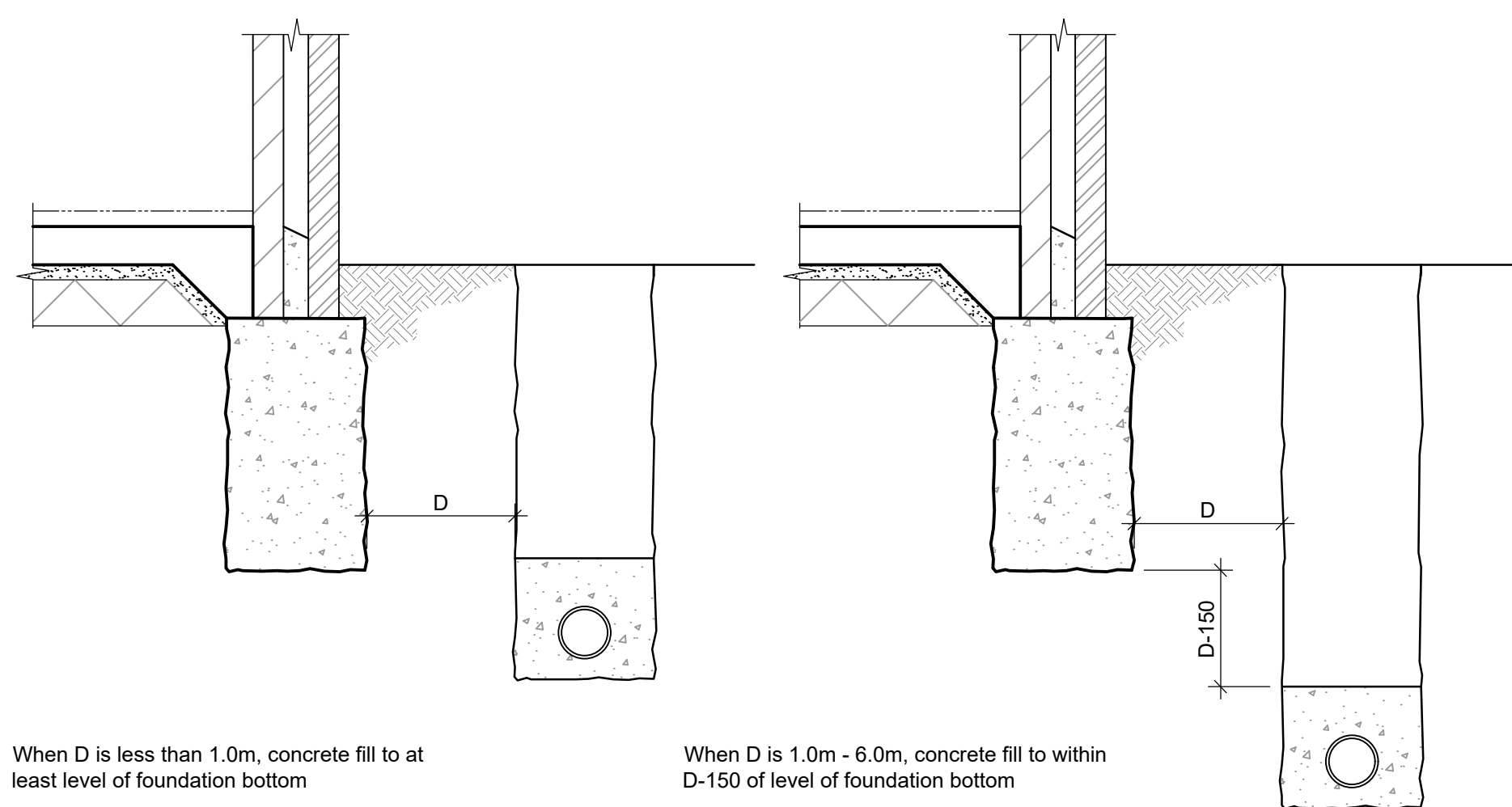


**CLASS Y SURROUND**

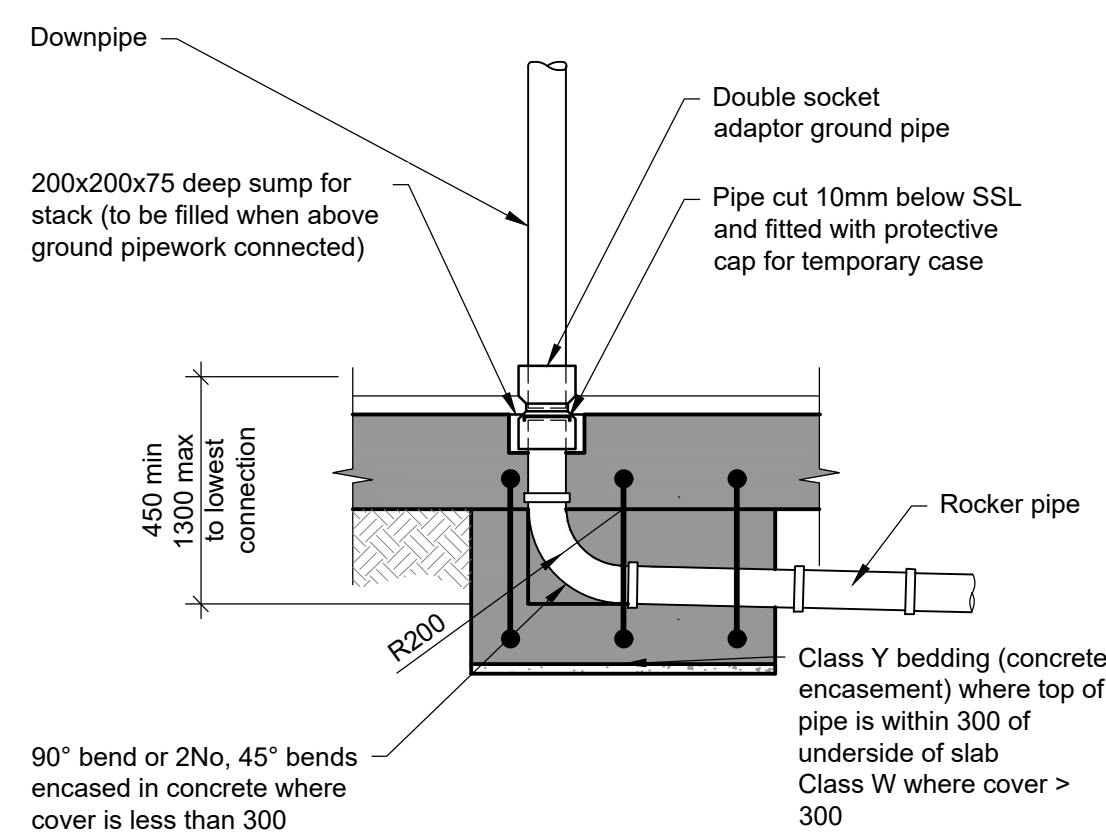
FOR PIPES WITH CROWN < 300 UNDER BUILDING



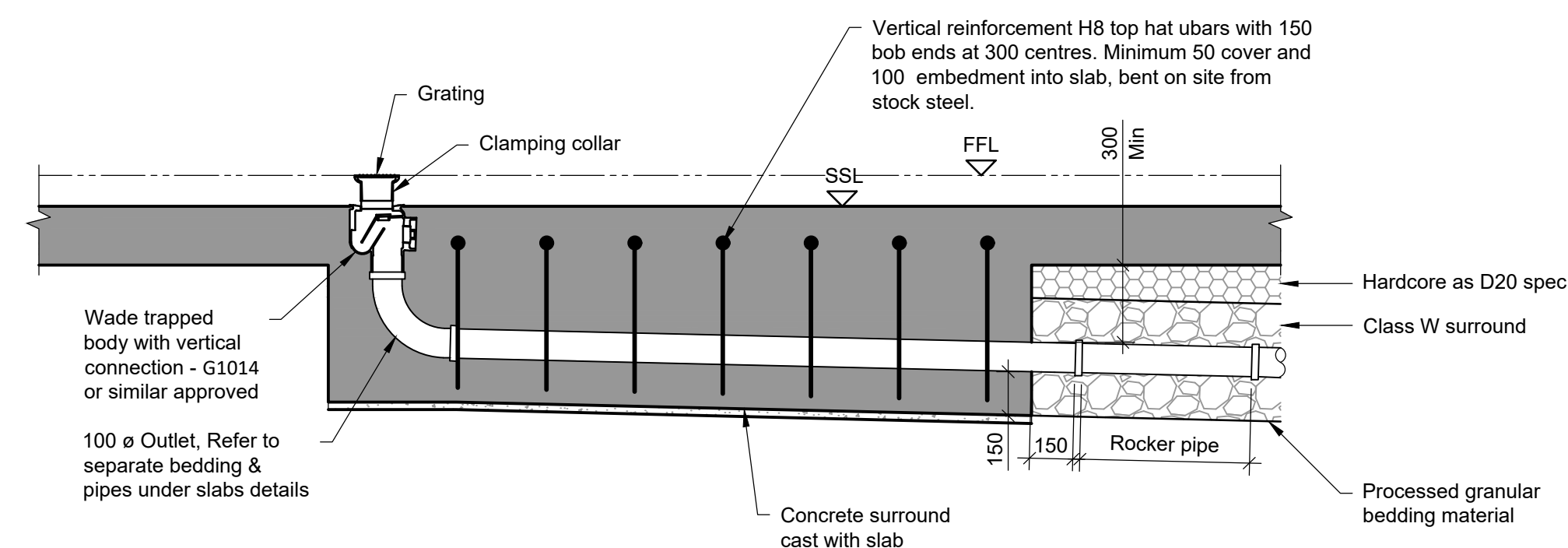
**TYPICAL DETAIL FOR PIPELINES UNDER SLABS: CLASS Y AND W SURROUND**



**PIPES NEAR BUILDINGS**



**TYPICAL FOUL STACK DETAIL**



**INDICATIVE INTERNAL FLOOR GULLY**

**Notes :**

1. This drawing is to be read in conjunction with all relevant Architect's, Engineer's and specialists' drawings and specifications.
2. Do not scale from this drawing in either paper or digital form. Use written dimensions only. To check that this drawing has been printed to the intended scale this bar should be 50mm long @ A1 or 25mm long @ A3.
3. Health & Safety : All specific drawing notes are to be read in conjunction with the project "Information Pack" and "Site Rules".

Ver	Date	Drawn	Eng	Amendment
1	24.03.20	PJ	YA	Issued for information

**8 OAKHILL AVENUE,  
LONDON, NW3 7RE**

**DRAINAGE DETAILS**

Status **FOR INFORMATION**  
NOT FOR CONSTRUCTION

Drawn PJ	Eng YA
Scales NTS at A1	
Drawing No	Ver
<b>28373/ 6100</b>	<b>1</b>