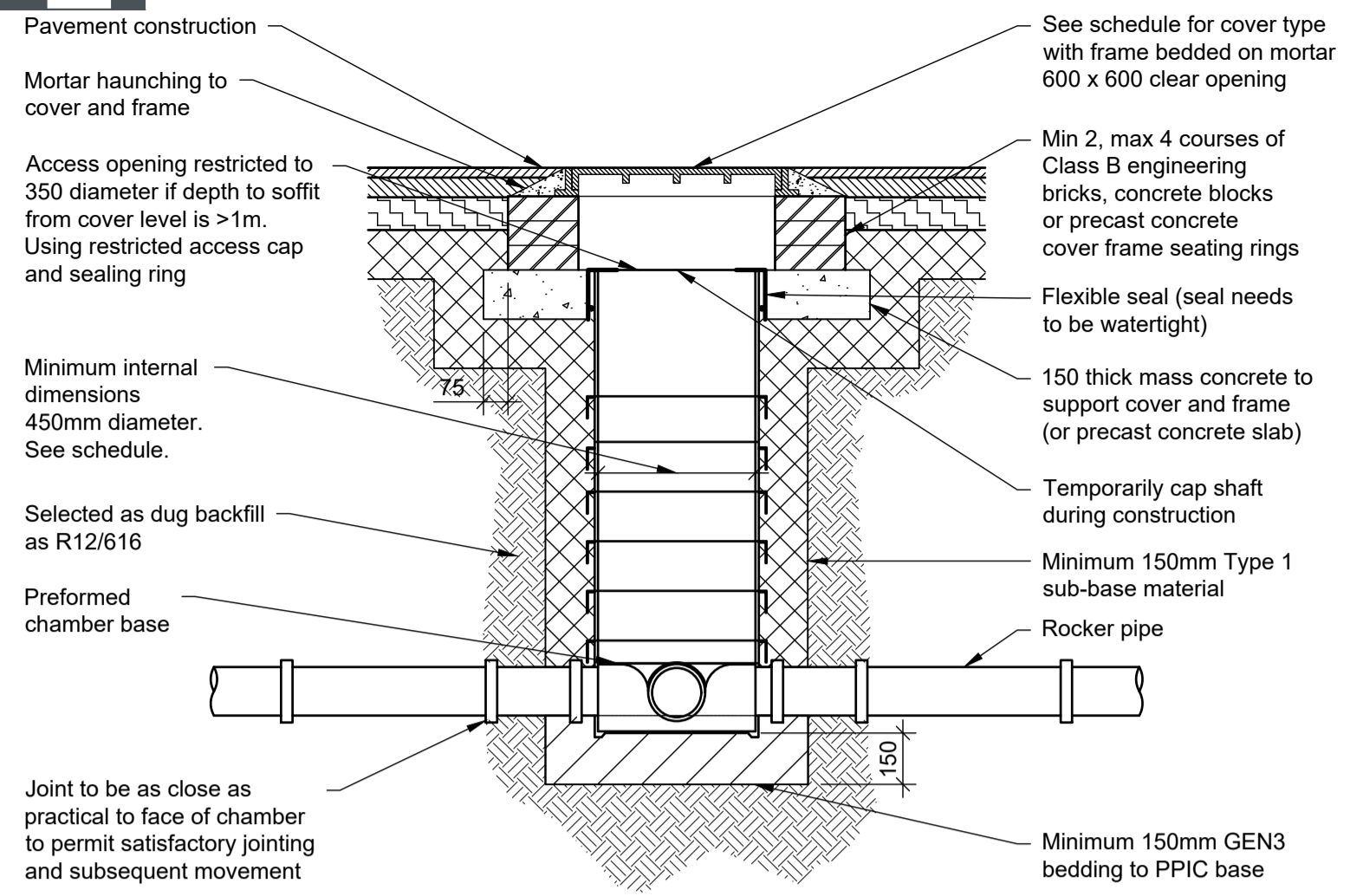
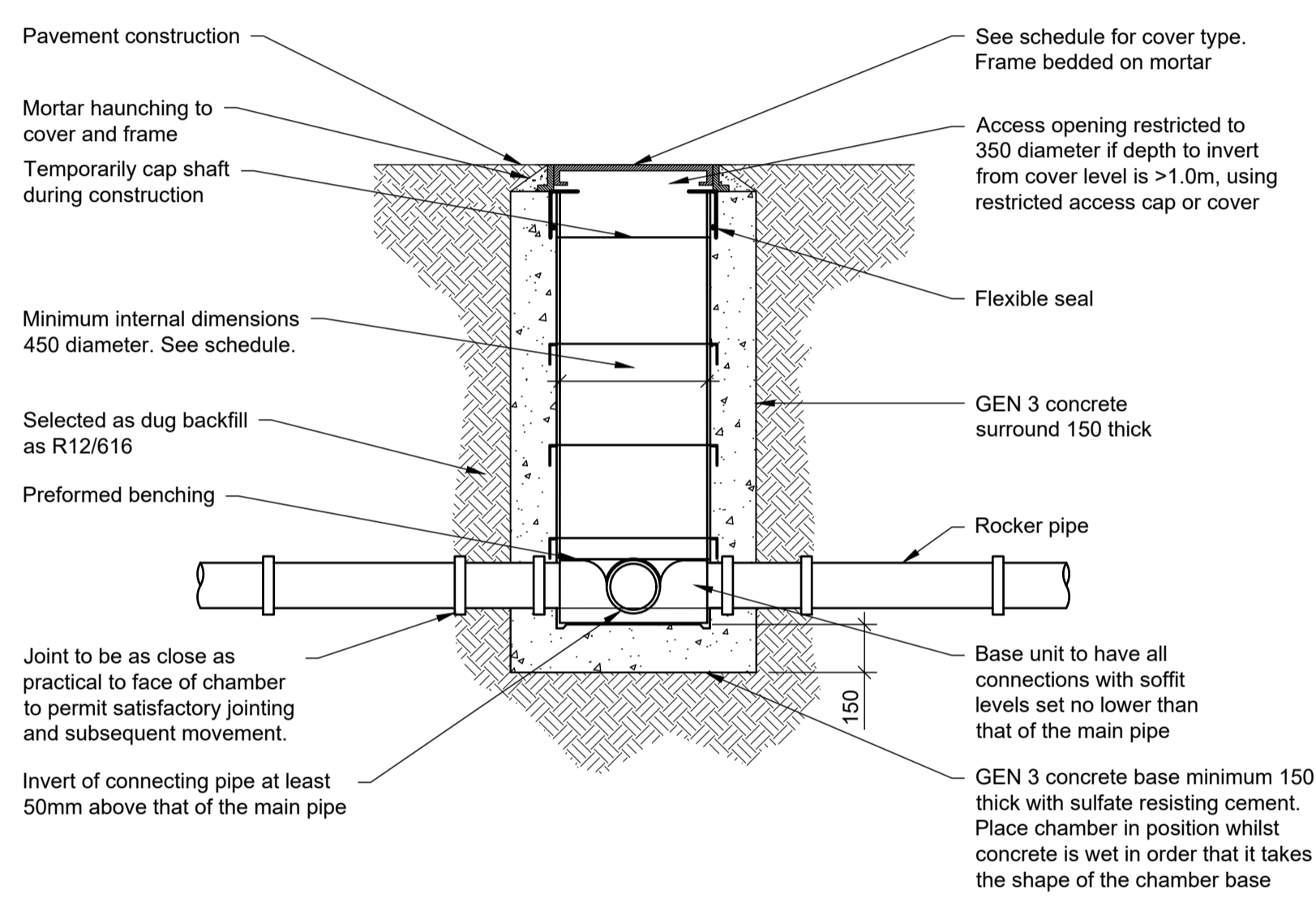


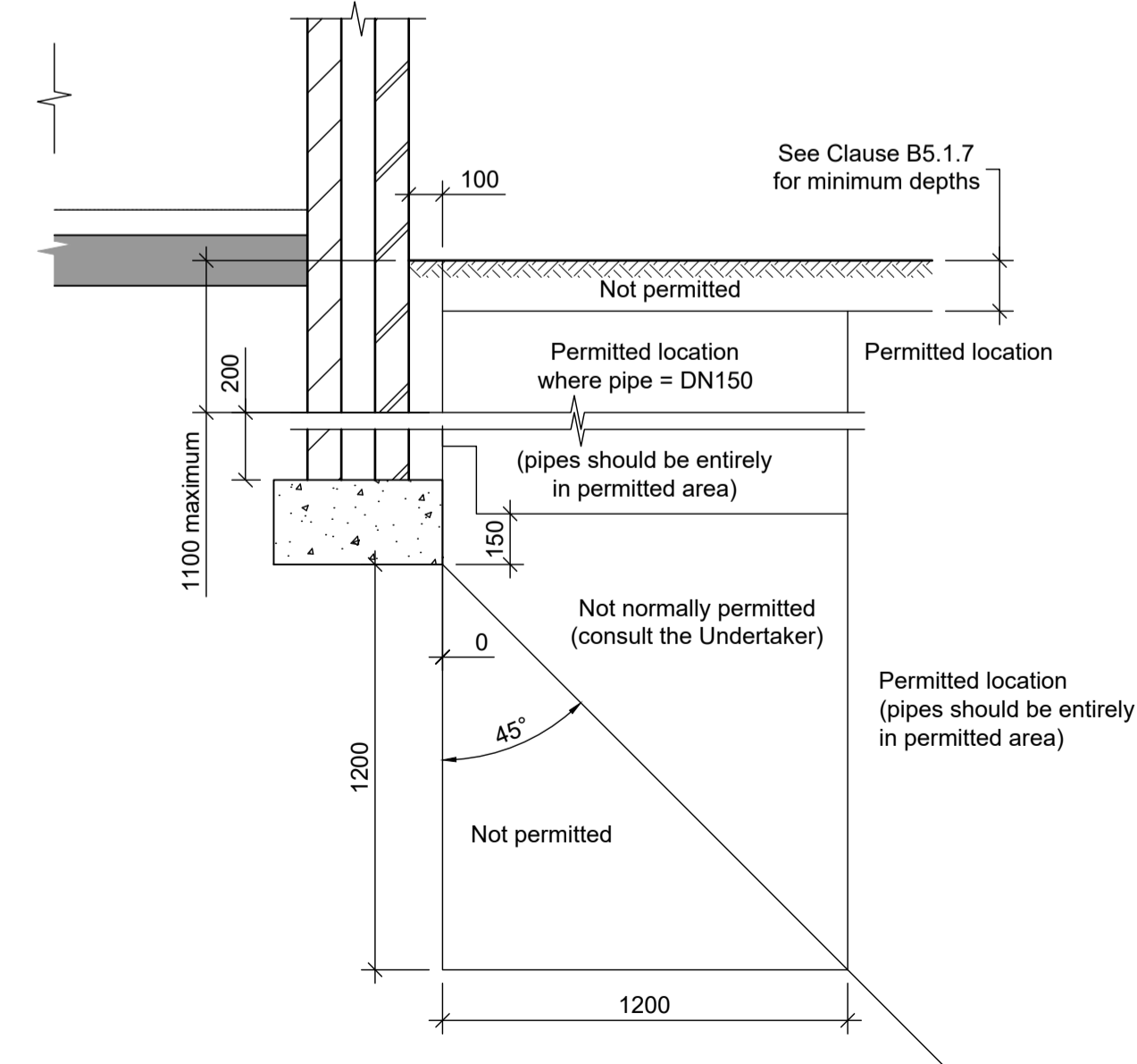
- GENERAL NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERING AND ARCHITECT'S DETAILS.
 - THE DESIGN DETAILS PRESENTED MUST BE REVIEWED IN CONJUNCTION WITH THE WIDER SITE INFORMATION AND SITE CONSTRAINTS WHICH MAY NOT BE EVIDENT ON DRAWING AND MUST BE REQUESTED IF NOT ALREADY PROVIDED. THIS INCLUDES, BUT NOT LIMITED TO, GROUND CONDITIONS (GEOTECHNICAL AND GEO-ENVIRONMENTAL), GROUNDWATER LEVELS, BURIED SERVICES, REMNANT OBSTRUCTIONS, ECOLOGY, TREE PROTECTION AND TOPOGRAPHY.
 - THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, IN WRITING, SHOULD ANY ERRORS OR DISCREPANCIES BE FOUND PRIOR TO THE COMMENCEMENT OR CONTINUATION OF ANY WORKS.
 - ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BRITISH STANDARDS, BUILDING REGULATIONS AND NHBC STANDARDS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH AND SAFETY AT WORK ACT 1974, AND THE C.D.M. REGULATIONS 2015. THE CONTRACTOR WILL BE DEEMED TO HAVE ALLOWED FOR FULL COMPLIANCE, INCLUDING FULL LIAISON WITH THE CDM CO-ORDINATOR, WITHIN HIS RATES.
 - ANY EXISTING DETAILS WHICH ARE SHOWN ON THIS DRAWING ARE FOR GUIDANCE ONLY AND ARE TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY VARIATIONS ARE TO BE RECORDED AND REPORTED TO THE ENGINEER IMMEDIATELY.
 - BEFORE WORK COMMENCES CONTRACTOR SHOULD CONSULT THE ENGINEER AND THE SI REPORT REGARDING ANY CONTAMINATION ISSUES. ALL NECESSARY HEALTH AND SAFETY MEASURES TO BE TAKEN.
 - THE DETAILS PROVIDED ARE IN LINE WITH DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION UNDER THE CODE FOR ADOPTION AGREEMENTS FOR WATER AND SEWERAGE COMPANIES OPERATING WHOLLY OR MAINLY IN ENGLAND (THE CODE) APPROVED VERSION 2.1 - 25 MAY 2021



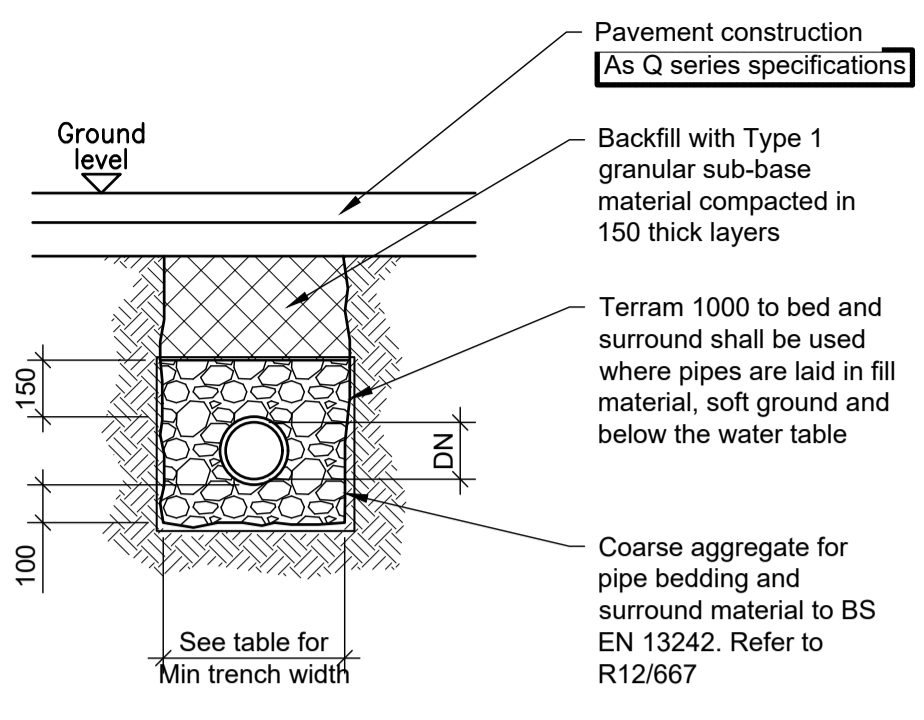
TYPE D1 PLASTIC INSPECTION CHAMBER
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 2M.
FLEXIBLE MATERIAL CONSTRUCTION FOR USE IN AREAS
SUBJECT TO VEHICLE LOADING



TYPE D3 PLASTIC INSPECTION CHAMBER
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 2M.
FLEXIBLE MATERIAL CONSTRUCTION FOR USE IN AREAS
SUBJECT TO VEHICLE LOADING



PERMITTED LOCATIONS OF ADOPTABLE SEWERS AND LATERAL DRAINS IN PROXIMITY TO BUILDINGS



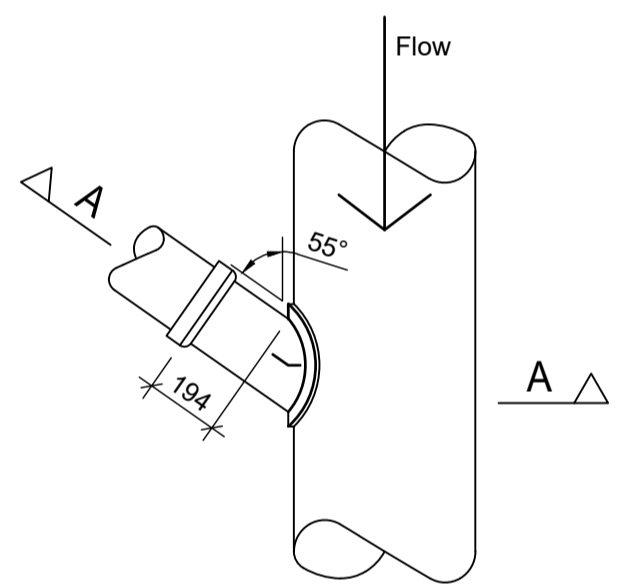
CLASS S SURROUND
GRANULAR SURROUND & BACKFILL FOR AREAS SUBJECT TO VEHICLE LOADING

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

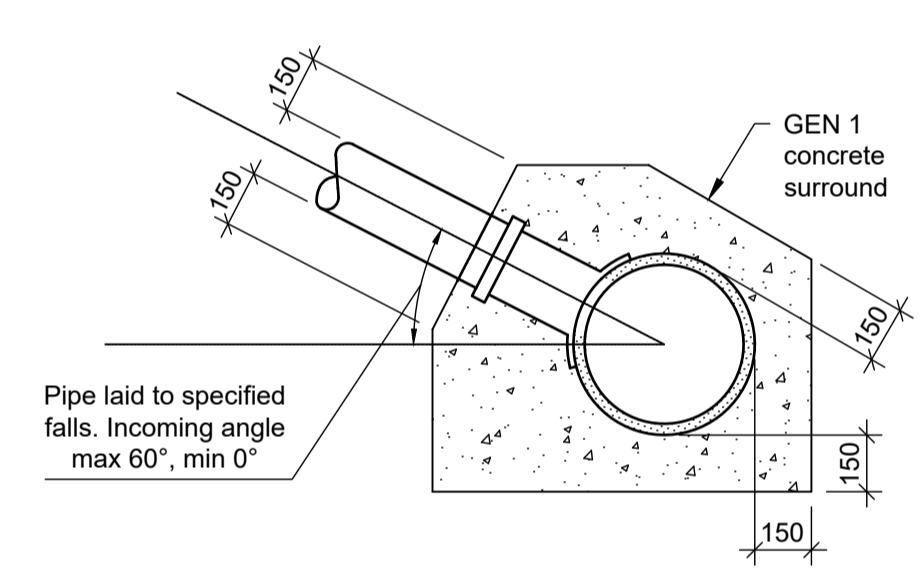
In the values OD + x, x/2 equals the minimum working space between the pipe and the trench wall or support, where:
OD is external diameter.
is angle of unsupported trench side measured to the horizontal.

MINIMUM TRENCH WIDTH IN RELATION TO NORMAL SIZE DN

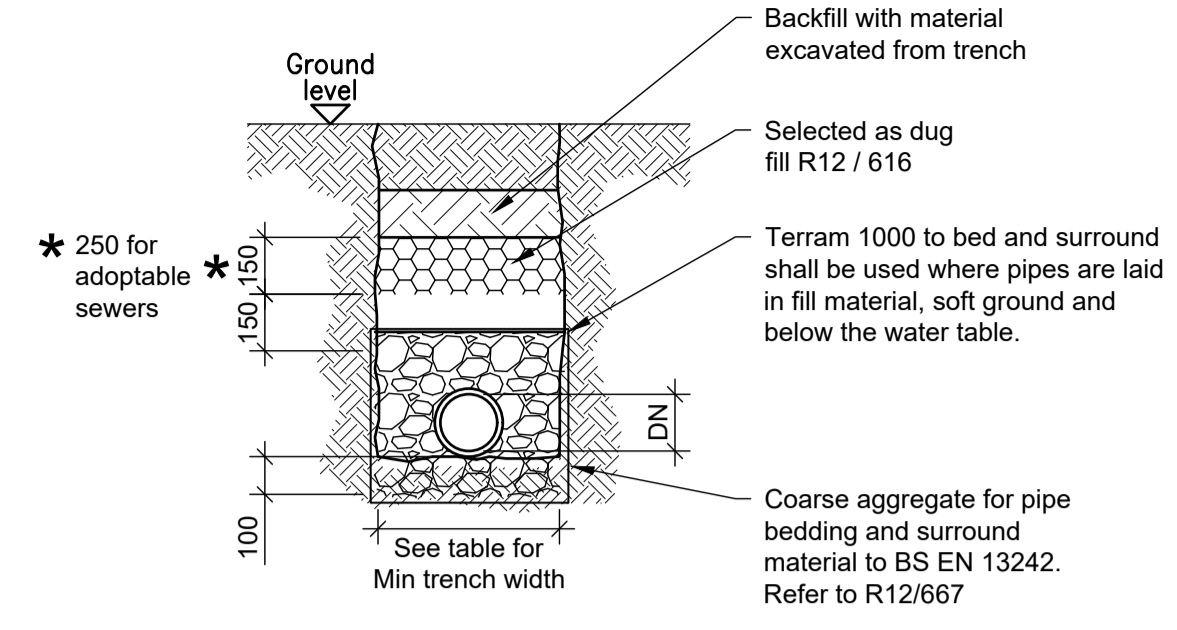


SADDLE CONNECTION - PLAN VIEW

MINIMUM TRENCH WIDTH IN RELATION TO TRENCH DEPTH



SADDLE CONNECTION - SECTION A-A

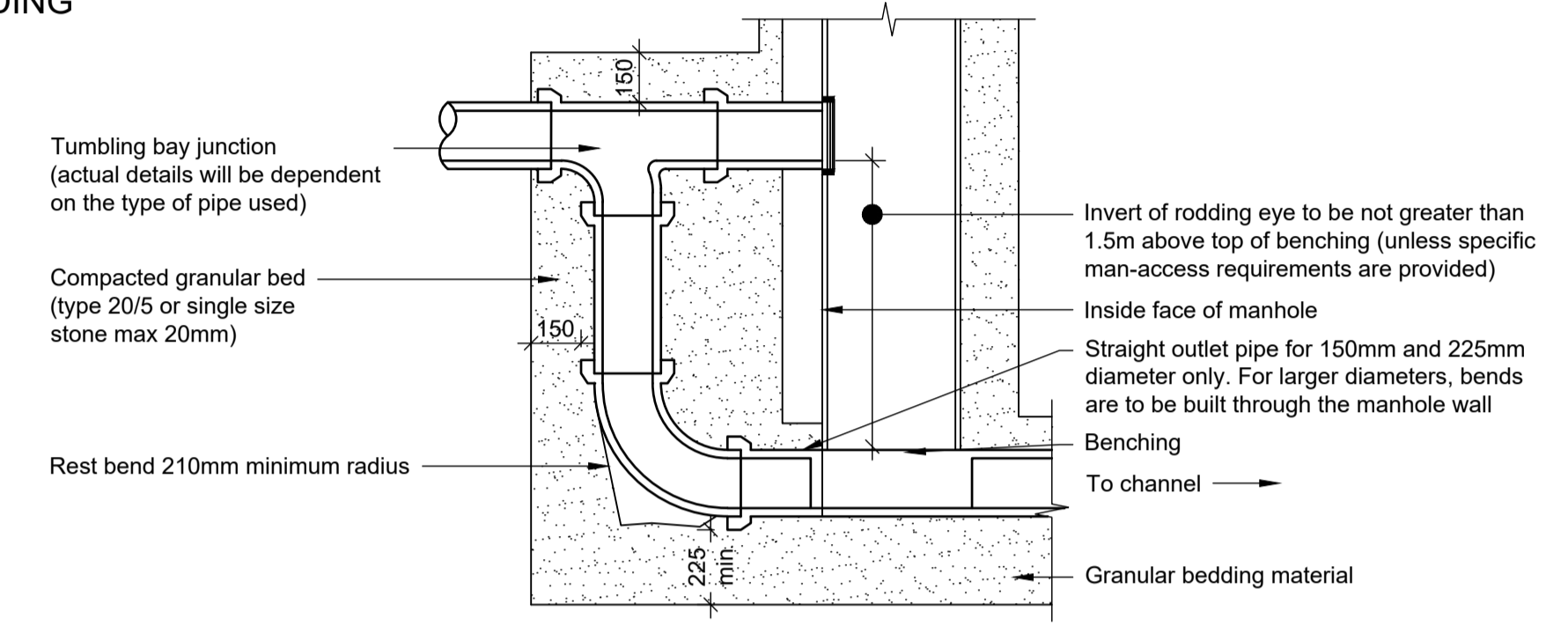


CLASS S SURROUND
GRANULAR SURROUND & BACKFILL FOR SOFT OR HARD LANDSCAPING AREAS NOT SUBJECT TO VEHICLE LOADING

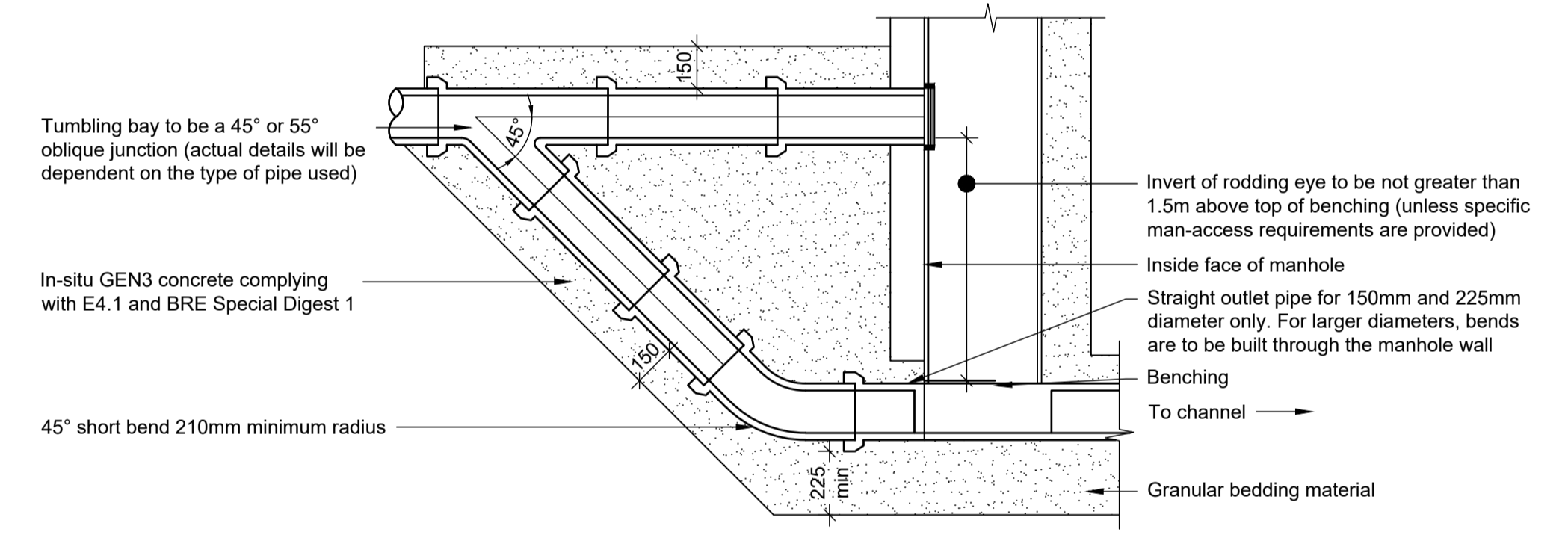
TABLE 2

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.



EXTERNAL VERTICAL BACKDROP
(FLEXIBLE MATERIALS)
FOR USE IN MANHOLE TYPES A TO D



EXTERNAL RAMPED BACKDROP
(FLEXIBLE MATERIALS)
FOR USE IN MANHOLE TYPES A TO D

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
P02	06.03.26	SP	ISSUED FOR TECHNICAL APPROVAL	AC	RJ
P01	06.11.25	AC	TENDER DRAWING	RJ	RJ

STATUS DESCRIPTION STATUS

FOR TECHNICAL APPROVAL S4

HBL Craig House, 33 Ballbrook Avenue, Manchester M20 3JD +44 (0)161 432 9977 | www.hbl Ltd Consulting Civil & Structural Engineers

PROJECT	WOOLLEY COLLIERY		
DRAWING TITLE	S104 CONSTRUCTION DETAILS SHEET SHEET 2		
CLIENT	MJ GLEESON		
HBL REF.	10701	DATE	29.09.25
SCALE(S)	1:20	APPROVED	A1
DRAWN	AC	CHECKED	RJ
DRAWING No.	10701-HBL-XX-XX-DR-C-5532	APPROVED	RJ
REV.	P02		