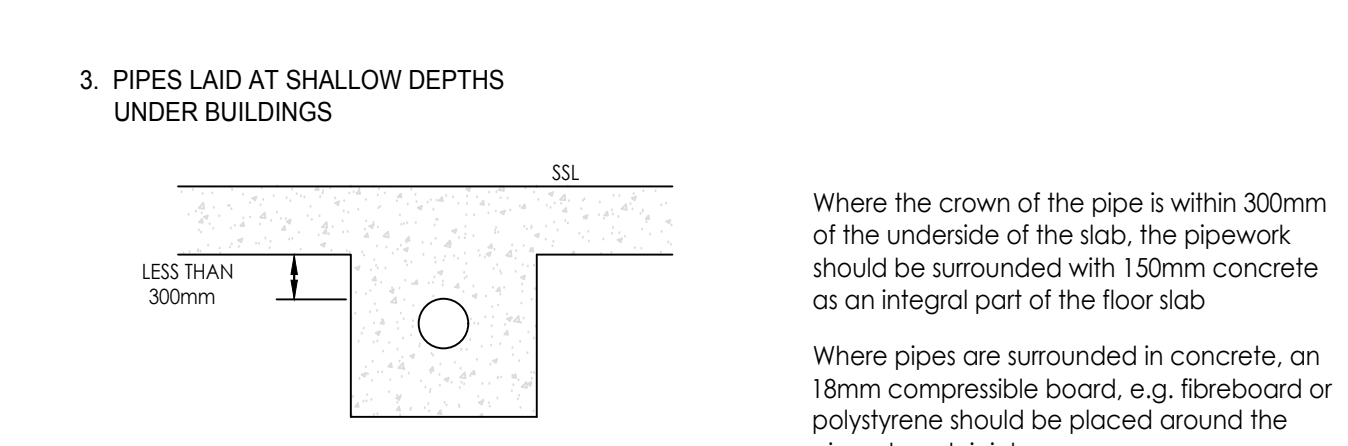
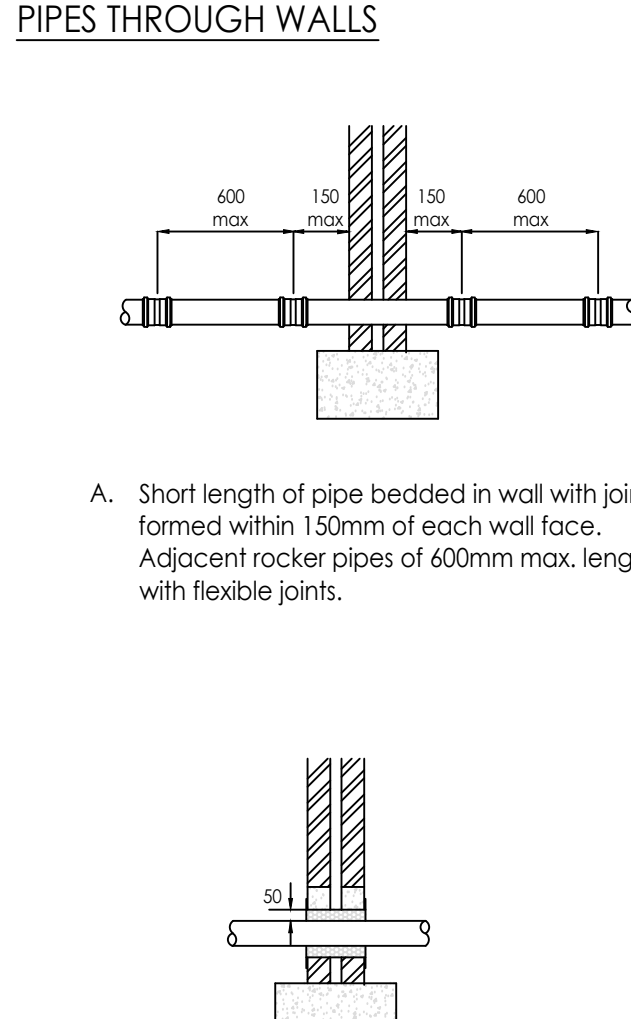
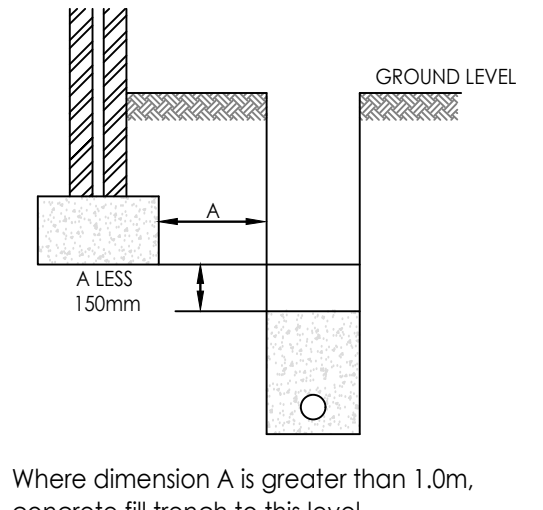
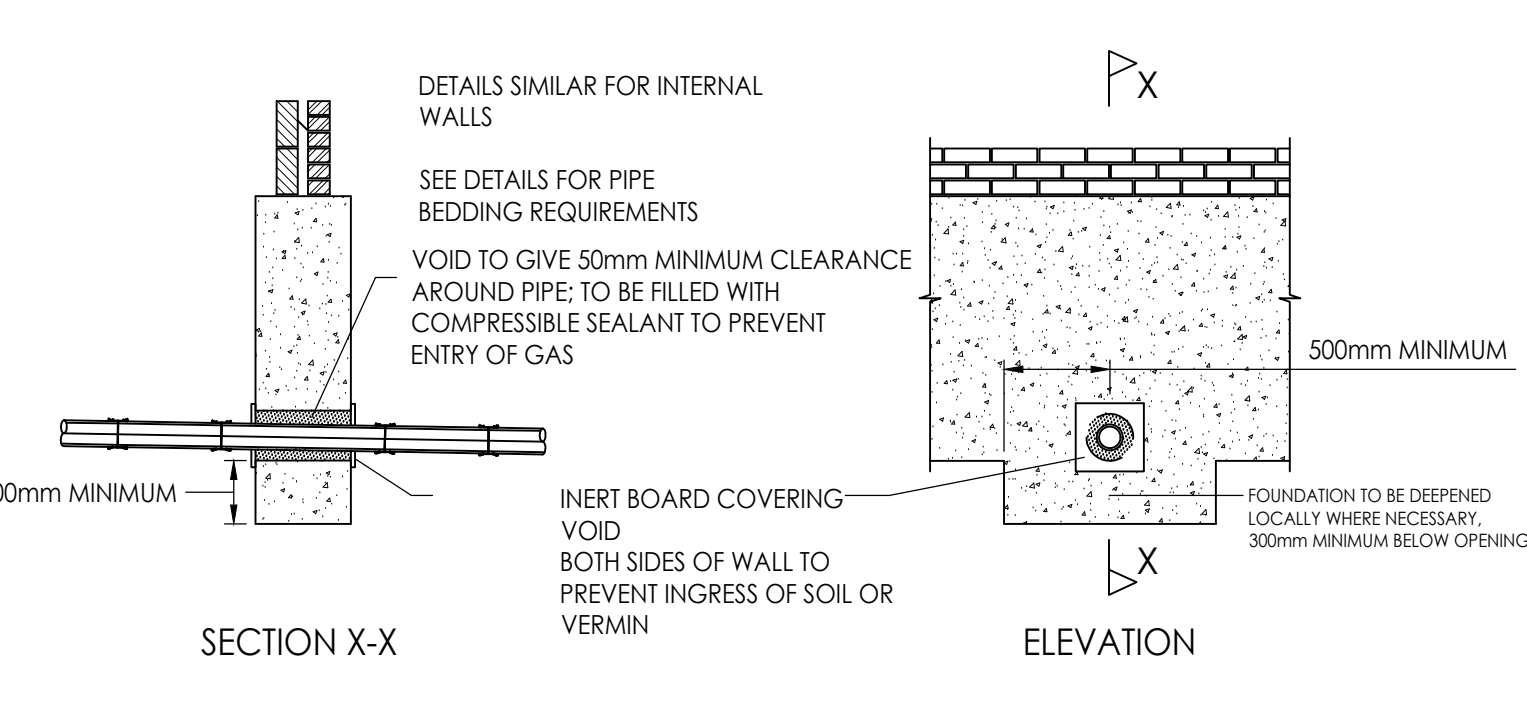
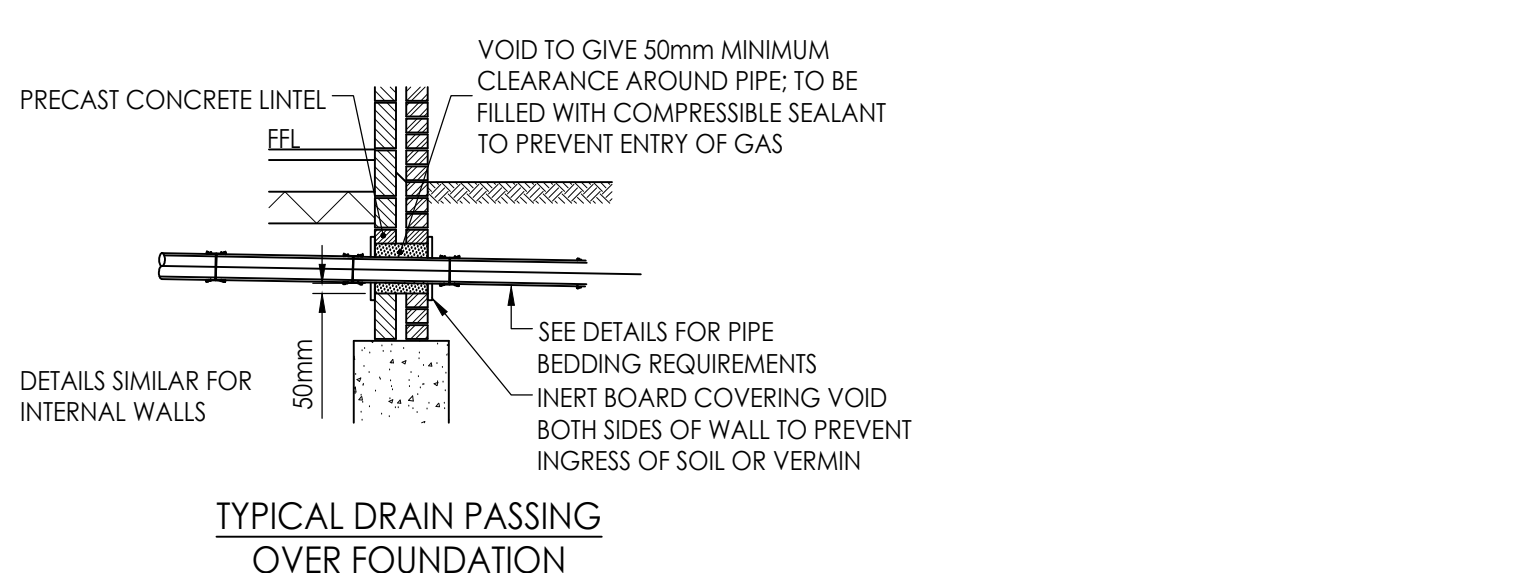


MINIMUM DIMENSIONS FOR MANHOLES					
TYPE OF ACCESS	SIZE OF LARGEST PIPE (mm)	MINIMUM INTERNAL DIMENSIONS ¹		MINIMUM CLEAR OPENING SIZE ²	
		RECTANGULAR (DEPTH x WIDTH) (mm x mm)	CIRCULAR DIAMETER (mm)	RECTANGULAR (DEPTH x WIDTH) (mm x mm)	CIRCULAR DIAMETER (mm)
MANHOLE	LESS THAN OR EQUAL TO 150	750 x 475 ³	1000 ⁴	750 x 475 ³	N/A ⁵
LESS THAN 1.5m DEEP TO SCUFF	225	1200 x 475	1200	1200 x 475 ³	
	300	1200 x 750	1200		
	GREATER THAN 300	1800 x (200+420)	THE LARGER OF 1800 (mm) (200+420)		
MANHOLE	LESS THAN OR EQUAL TO 225	1050 x 1000	1200	800 x 400	600
GREATER THAN 1.5m DEEP TO SCUFF	300	1200 x 1075	1200		
	375-450	1300 x 1225	1200		
	GREATER THAN 450	1800 x (200+775)	THE LARGER OF 1800 (mm) (200+775)		
MANHOLE SHIRT ⁶	SHIRT ⁶	1050 x 800	800	400 x 400	600
GREATER THAN 1.5m DEEP TO SCUFF	LOADING ⁷	1200 x 800	1200		
	WHICH ⁸	800 x 800	800	400 x 400	600

¹ LARGER SIZES MAY BE REQUIRED FOR MANHOLES ON BRIDS OR WHERE THERE ARE JUNCTIONS.
² THE MINIMUM CLEAR OPENING SIZE IS THE MINIMUM CLEAR OPENING SIZE REQUIRED TO PASS THE LARGEST SIZE OF LOADS TO BE REQUIRED FOR NORMAL LOADING. CONSIDERATION MUST BE GIVEN TO A SAFE SYSTEM OF WORK BEING SPECIFIED.
³ NOT APPLICABLE TO WORKING SCAFFOLDS.
⁴ THE MINIMUM CLEAR OPENING SIZE IS THE MINIMUM CLEAR OPENING SIZE REQUIRED TO PASS THE LARGEST SIZE OF LOADS TO BE REQUIRED FOR NORMAL LOADING. CONSIDERATION MUST BE GIVEN TO A SAFE SYSTEM OF WORK BEING SPECIFIED.
⁵ MANHOLE CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE.
⁶ THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE.
⁷ THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE.
⁸ THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE. THE MINIMUM CLEAR SPACE SHALL BE WITHIN 200mm OF THE TOP OF THE MANHOLE.



A. Mask opening on both sides of the wall with rigid sheet material to prevent entry of fill or vermin.
Important: Fill void with compressible material to prevent entry of gas.

Where the crown of the pipe is within 300mm of the underside of the slab, the pipework should be surrounded with 150mm concrete as an integral part of the floor slab

Where pipes are surrounded in concrete, an 18mm compressible board, e.g. fibreboard or polystyrene should be placed around the pipe at each joint.

ALL BUILDING DRAINAGE TO BE INSTALLED AND TESTED IN COMPLIANCE WITH THE BUILDING REGULATIONS 2000, DRAINAGE AND WASTE DISPOSAL APPROVED DOCUMENT H, 2015 EDITION.

ALL COMPONENTS AND MATERIALS ARE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS, AND LAID AND BACKFILLED IN ACCORDANCE WITH THOSE STANDARDS, AND THE MANUFACTURERS' INSTRUCTIONS.

THE CONTRACTOR SHALL, BEFORE COMMENCING THE WORKS, VERIFY ALL SITE SETTING-OUT DIMENSIONS; THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUE POSITION, LEVELS, SETTING-OUT OF THE WORKS AND FOR THE CORRECTNESS OF THE POSITION, LEVELS, DIMENSIONS, AND ALIGNMENT OF ALL PARTS OF THE WORKS.

SMALL UNLIGHTWEIGHT ACCESS COVERS SHOULD BE SECURED (e.g. WITH SCREWS) TO DETERR UNAUTHORISED ACCESS.

MANHOLES DEEPER THAN 1m TO HAVE GALVANISED STEEL STEP IRONS OR FIXED LADDERS.

ALL ABOVE GROUND DRAINAGE TO INCORPORATE RODDING ACCESS FACILITIES.

INSTALL CONCRETE FOR USE IN GENERAL DRAINAGE WORKS TO BE GR5 G3/4