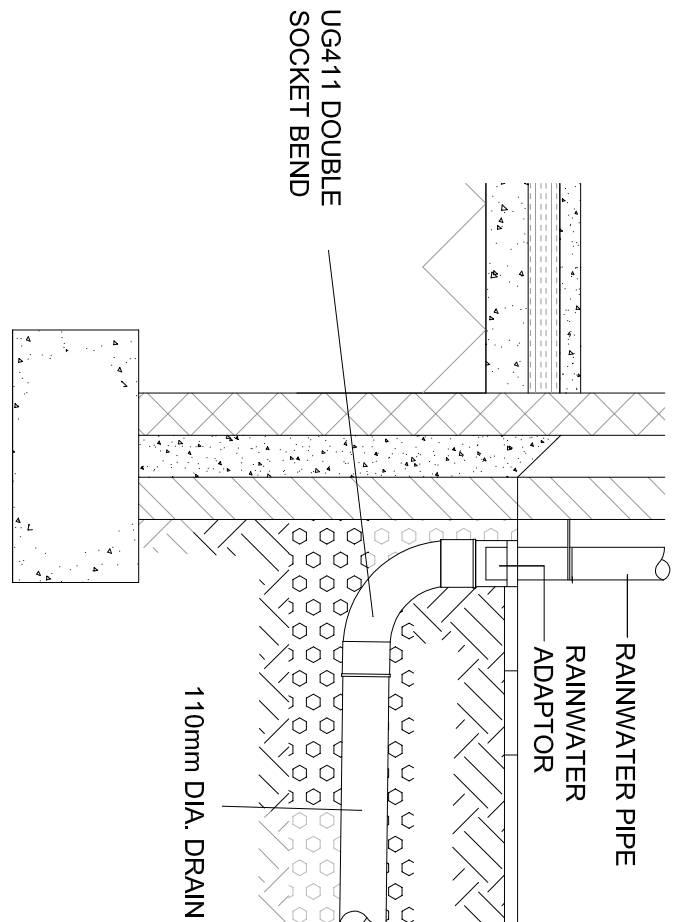
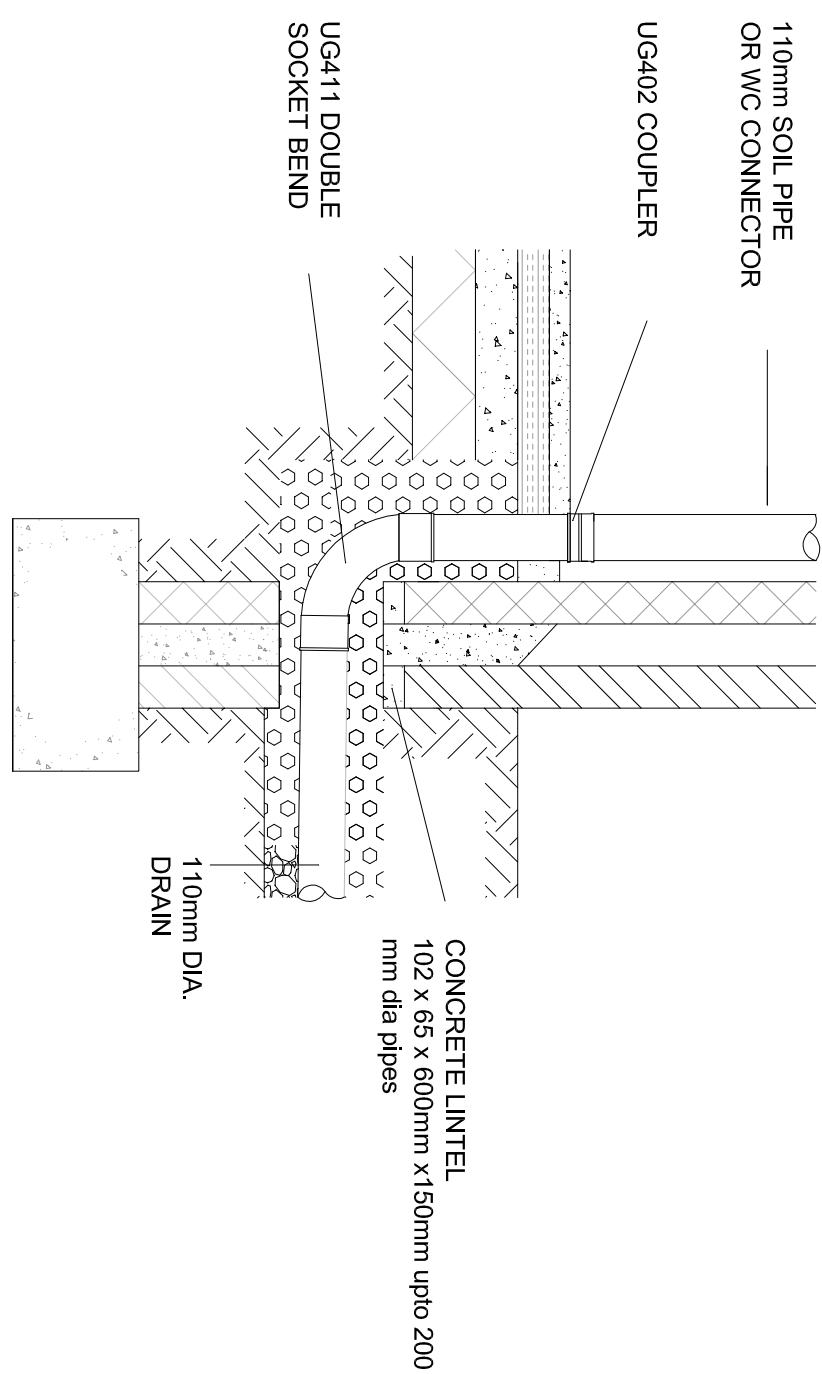


EXTERNAL RAINWATER PIPE CONNECTION

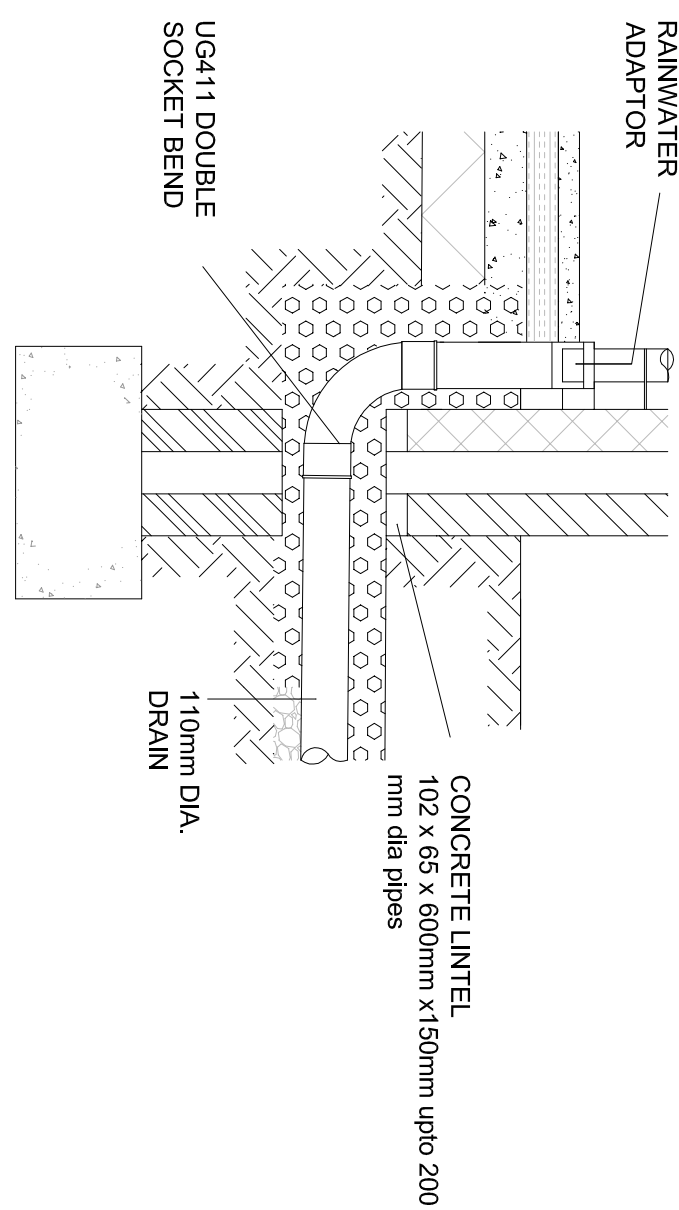


WHERE A COMBINED DRAINAGE SYSTEM IS BEING USED, A TRAPPED GULLY SHOULD BE USED AT THE BASE OF THE RAINWATER PIPE.

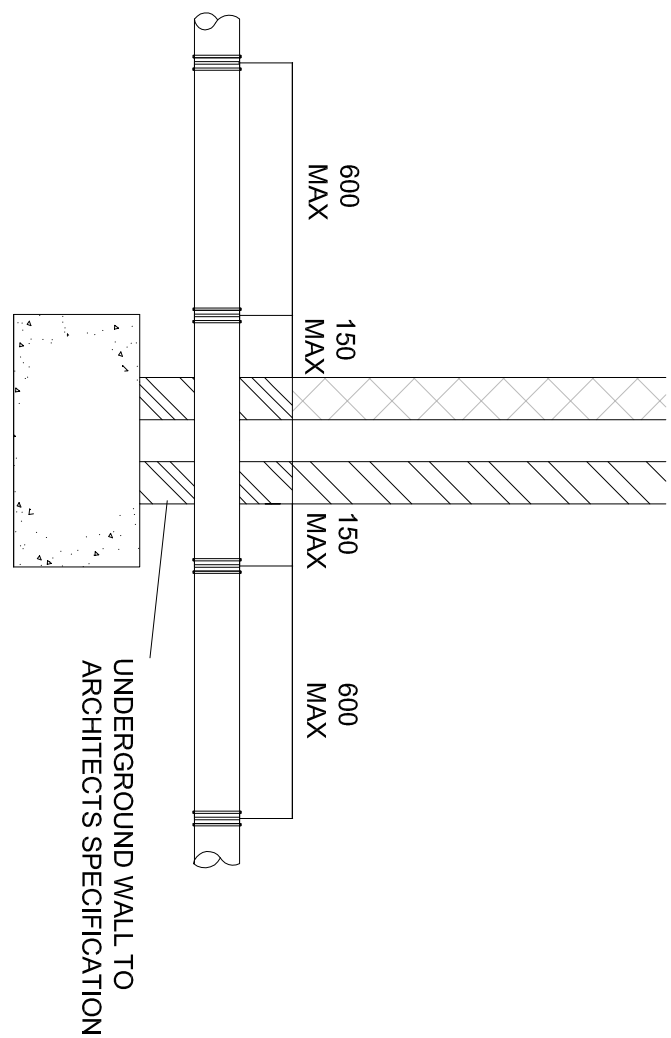
SOIL PIPE/MC CONNECTION



RAINWATER PIPE CONNECTION.

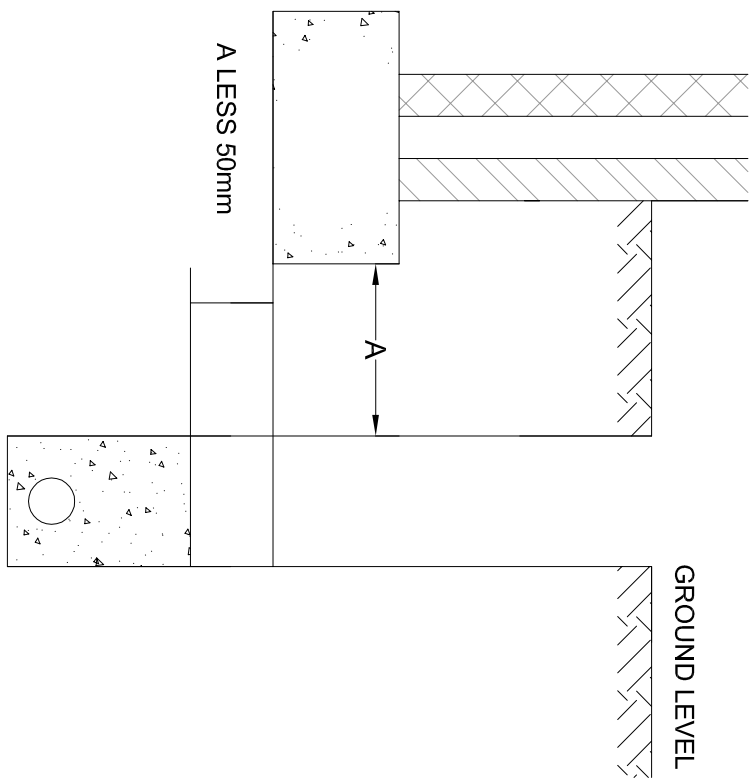


PIPES THROUGH WALLS



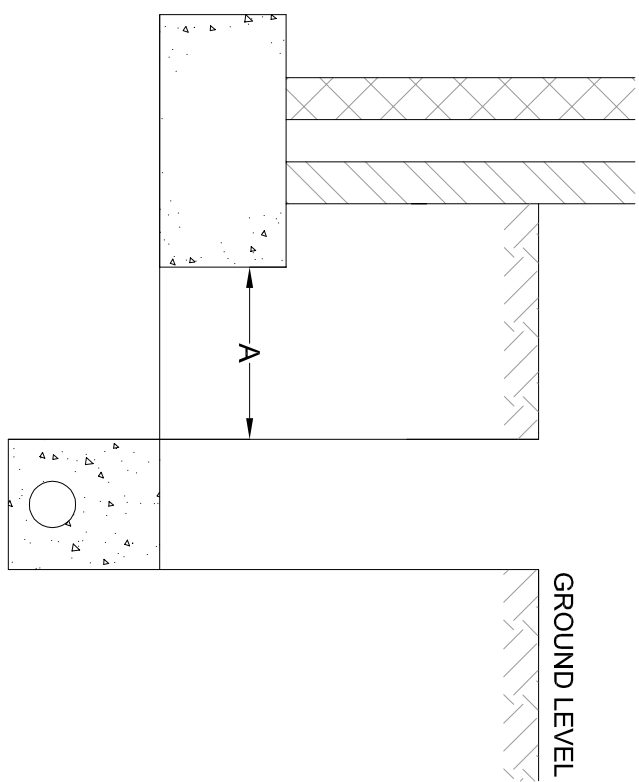
SHORT LENGTH OF PIPE BEDDED IN WALL WITH JOINTS WITHIN 150mm OF EACH WALL FACE.

PIPES NEAR BUILDINGS



WHERE DIMENSION A IS GREATER THAN 1.0m, CONCRETE FILL TRENCH TO THIS LEVEL.

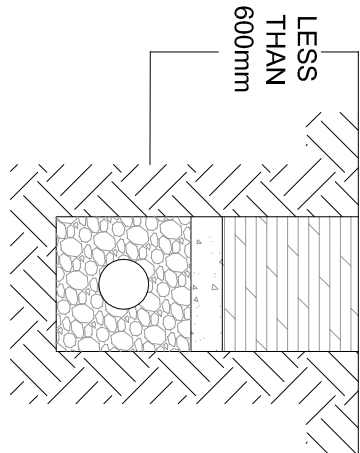
PIPES NEAR BUILDINGS



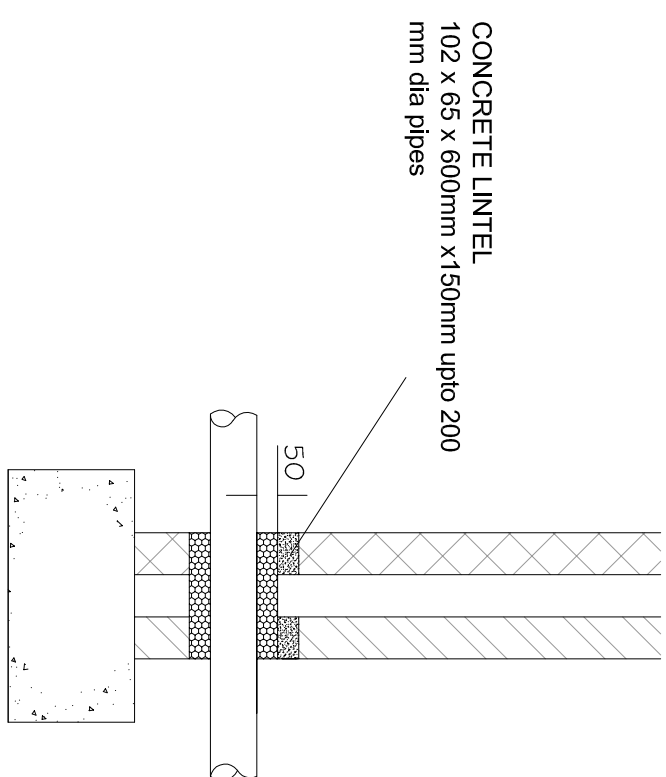
WHERE DIMENSION A IS LESS THAN 1m, CONCRETE FILL TRENCH TO LEVEL OF UNDERSIDE OF FOUNDATIONS.

PROTECTION FOR PIPES

1. PIPES LAID AT SHALLOW DEPTHS IN NON-TRAFFICKED AREAS.



PIPES THROUGH WALLS



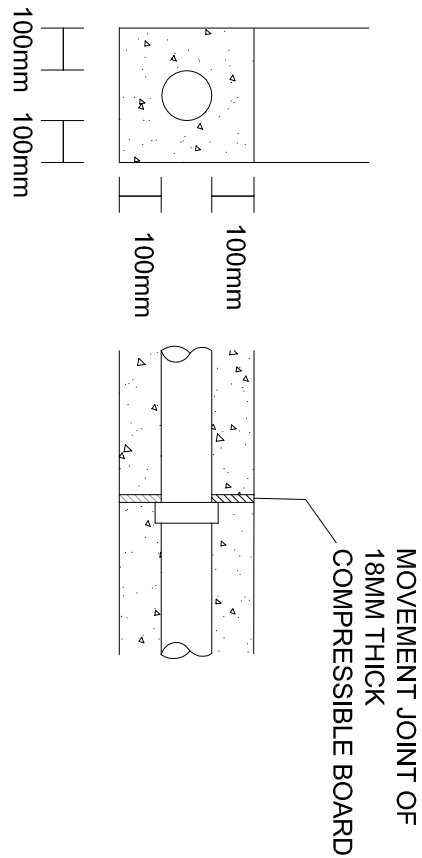
ARCH OR LINTEL OPENING TO GIVE 50mm SPACE ALL AROUND THE PIPE.

MASK OPENING ON BOTH SIDES OF THE WALL WITH RIGID

EQUIVALENT APPROVED BY BUILDING CONTROL TO PREVENT ENTRY OF FILL OR VERMIN.

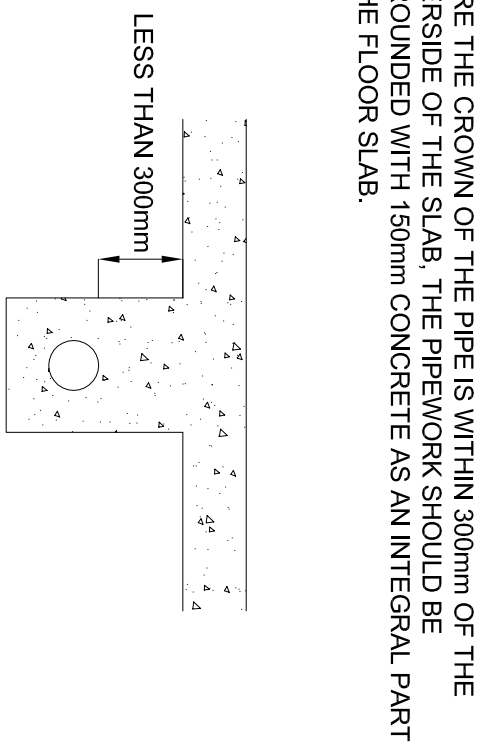
**IMPORTANT FILL VOID WITH EXPANDING FOAM
COMPRESSIBLE MATERIAL TO PREVENT ENTRY OF GAS.**

JOINT FOR CONCRETE ENCASED PIPE



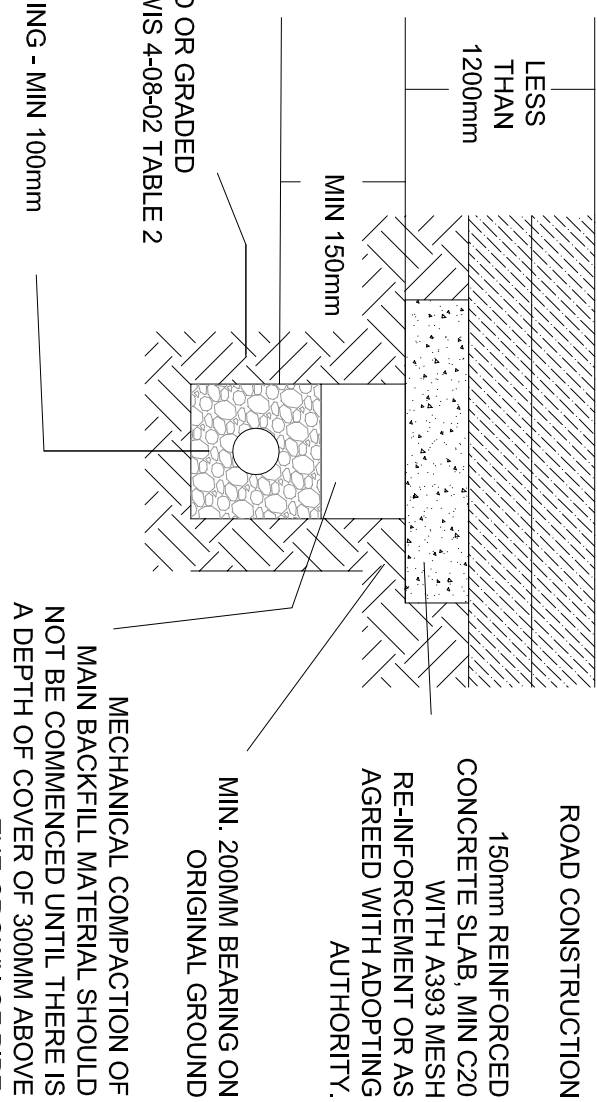
WHERE PIPES ARE SURROUNDED IN CONCRETE TO PROTECT NEARBY FOUNDATIONS, AN 18mm COMPRESSIBLE BOARD, E.G. FIBREBOARD OR POLYSTYRENE SHOULD BE PLACED AROUND THE PIPE AT EACH JOINT.

PIPES LAID AT SHALLOW DEPTHS UNDER BUILDINGS



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.

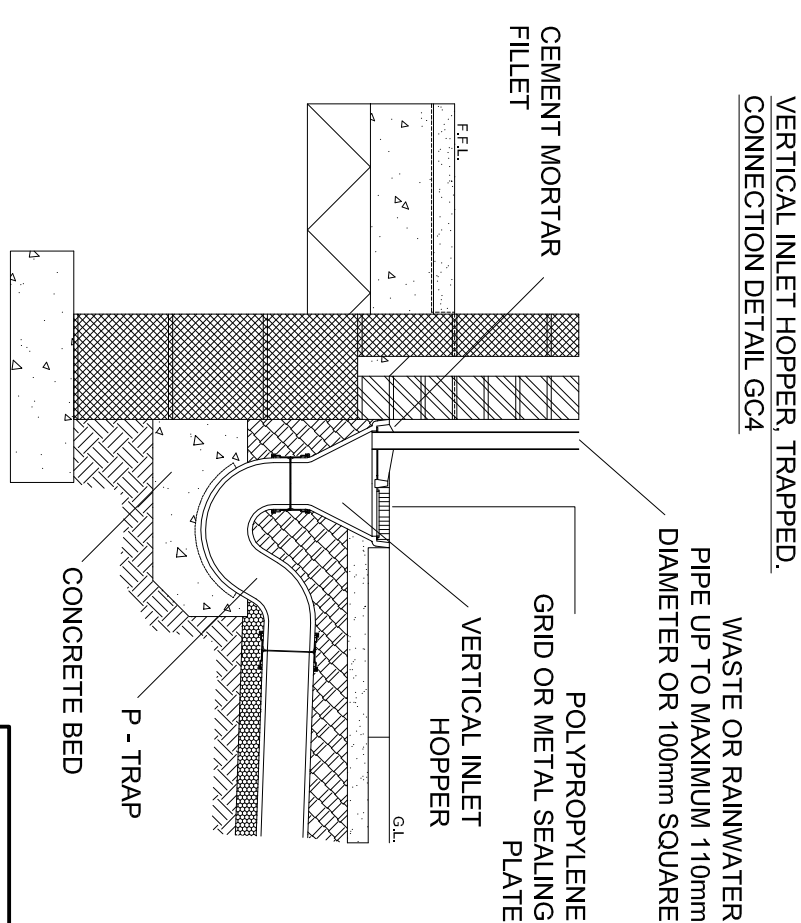
PIPES LAID AT SHALLOW DEPTHS IN ADOPTABLE TRAFFICKED AREAS



THE CROWN OF PIPE.

MECHANICAL COMPACTION OF MAIN BACKFILL MATERIAL SHOULD NOT BE COMMENCED UNTIL THERE IS A DEPTH OF COVER OF 300MM ABOVE THE CROWN OF PIPE.

SIDEFILL MATERIAL TO BE PLACED EVENLY ON BOTH SIDES OF PIPE, TAKING CARE TO WORK UNDER THE LOWER QUADRANT OF PIPE, ENSURING THE PIPE IS NOT LIFTED. BOTH SIDES OF THE TRENCH SHOULD BE FILLED SIMULTANEOUSLY TO AVOID HORIZONTAL MOVEMENT OF THE PIPE.



CONNECTION DETAIL GC4

WASTE OR RAINWATER
PIPE UP TO MAXIMUM 110mm
DIAMETER OR 100mm SQUARE

POLYPROPYLENE
GRID OR METAL SEALING
PLATE

CEMENT MORTAR

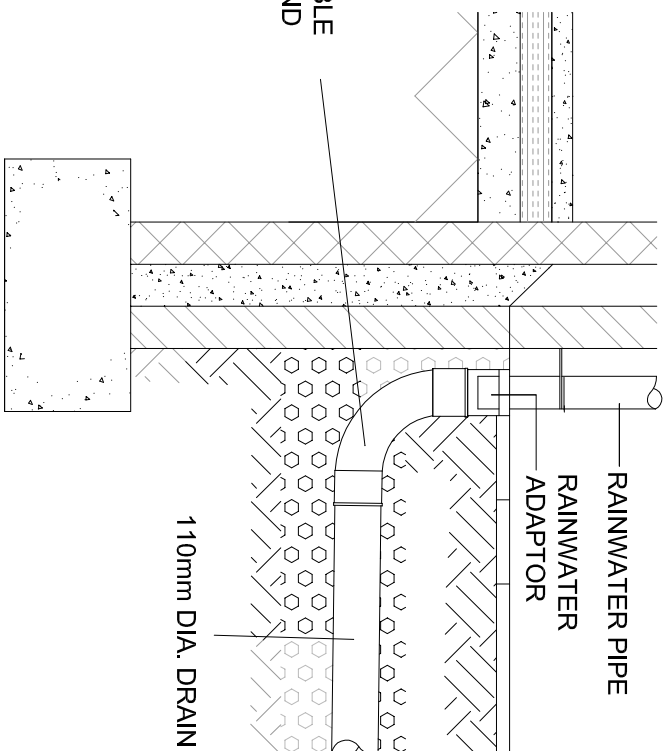
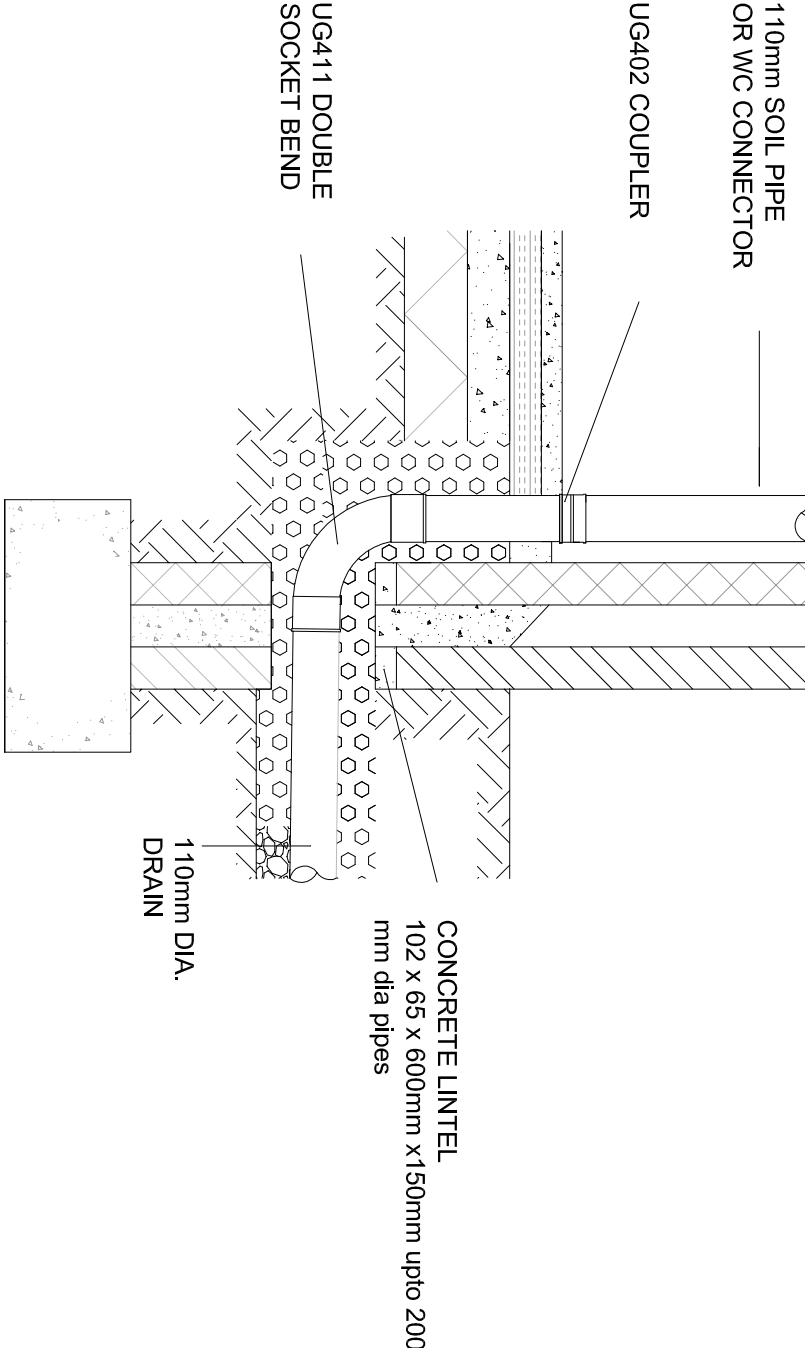
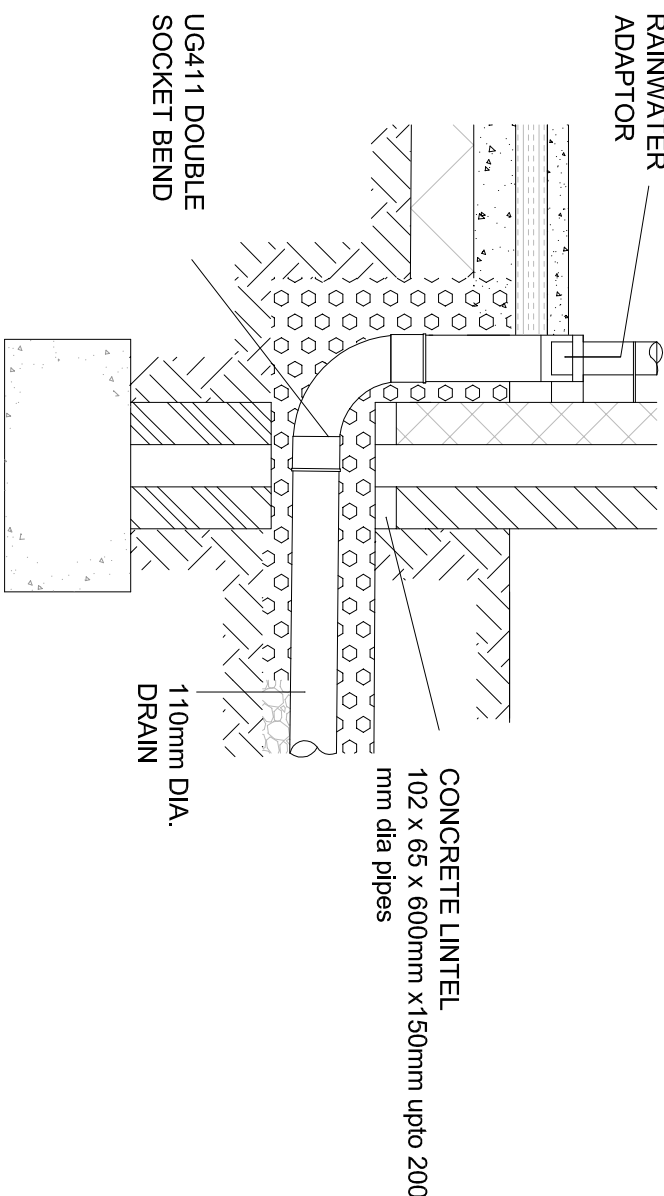
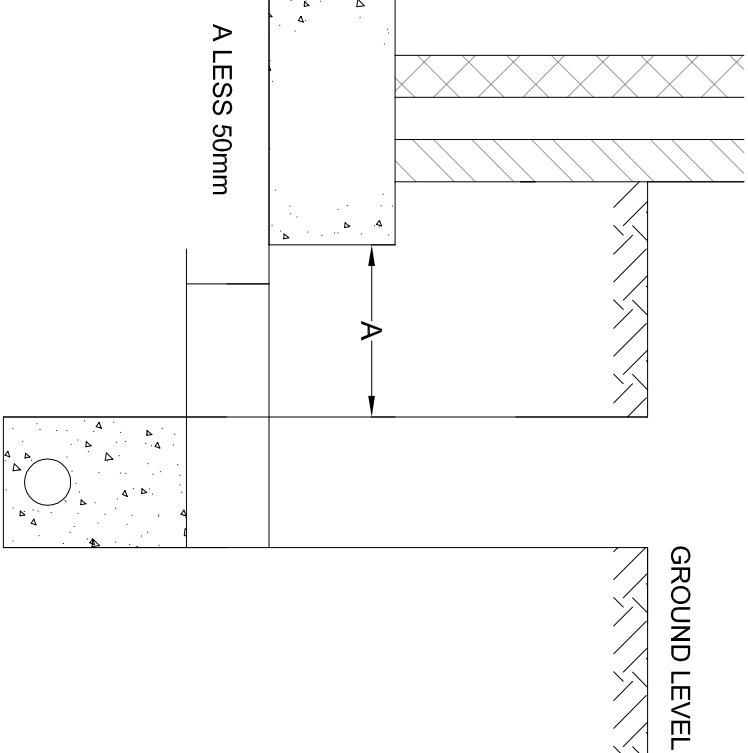
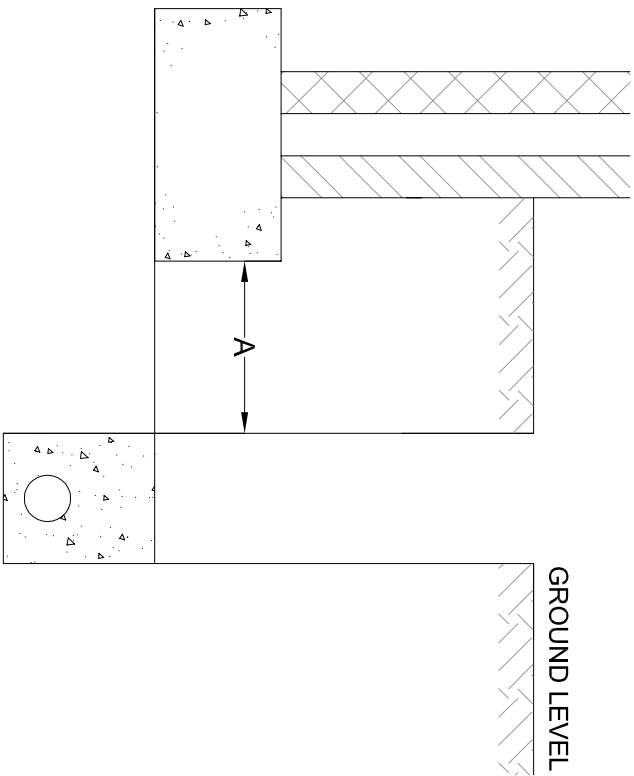
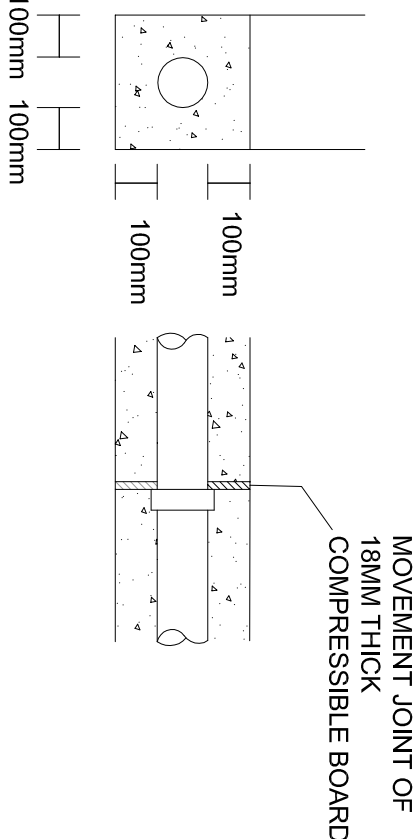
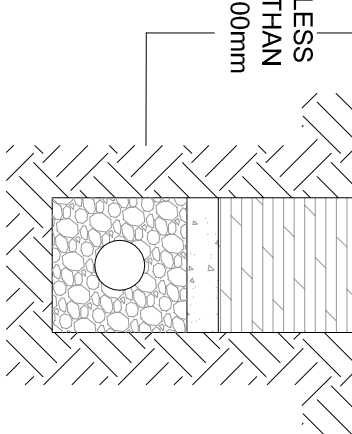
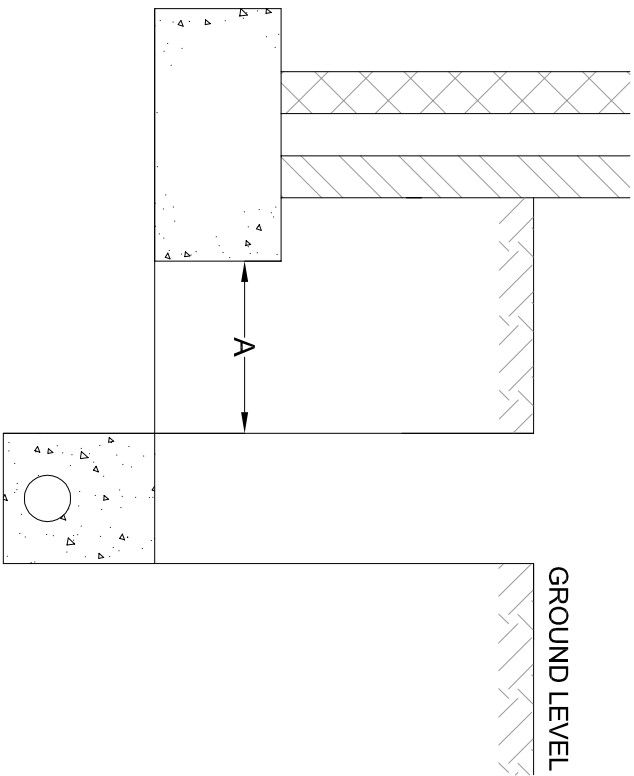
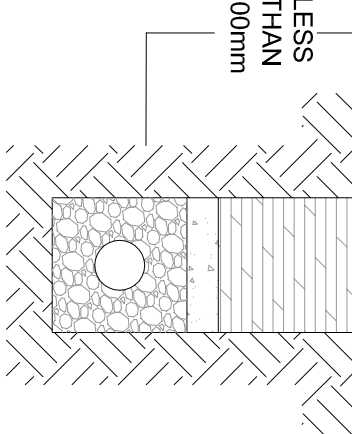
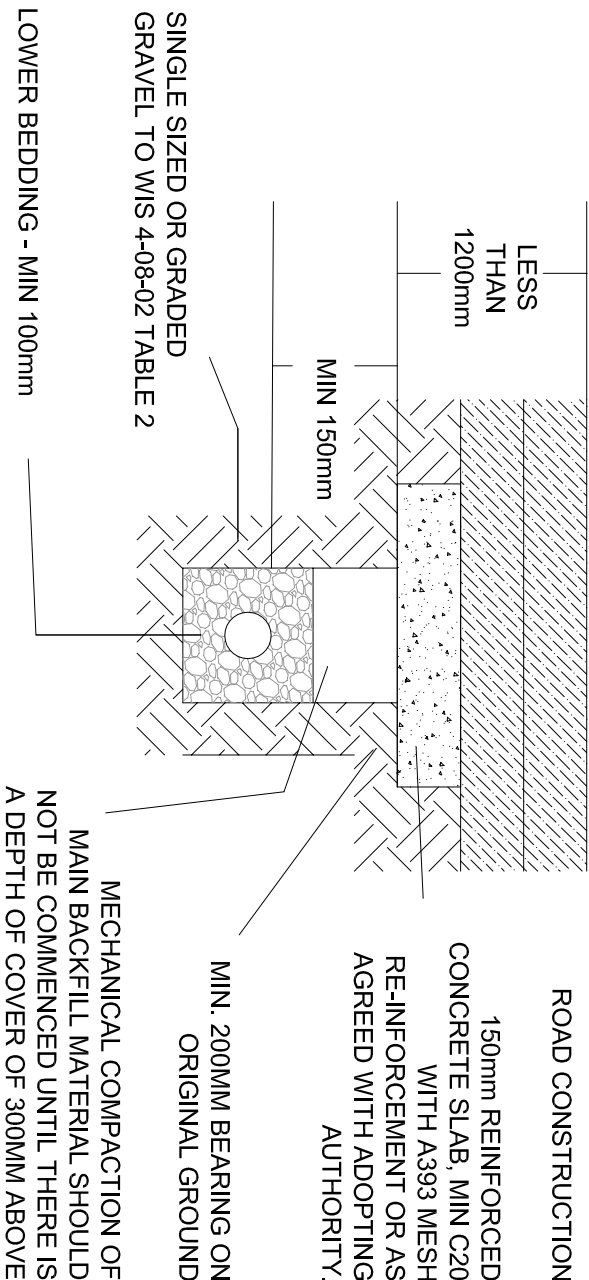
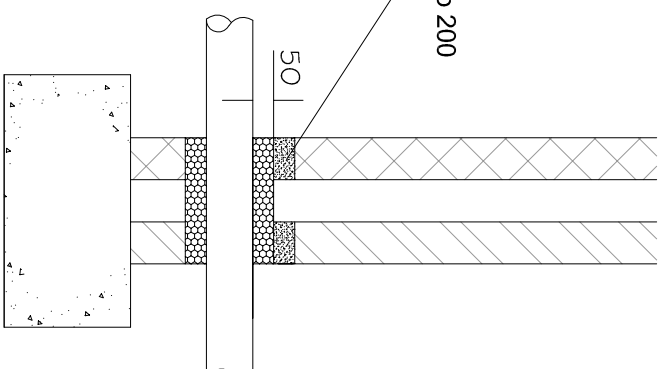
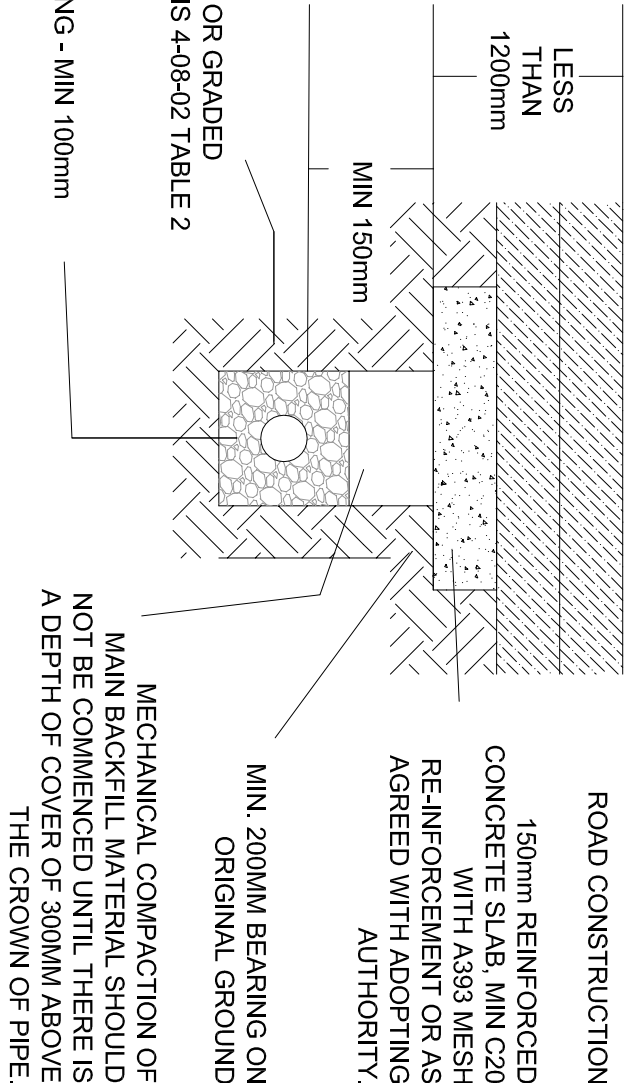
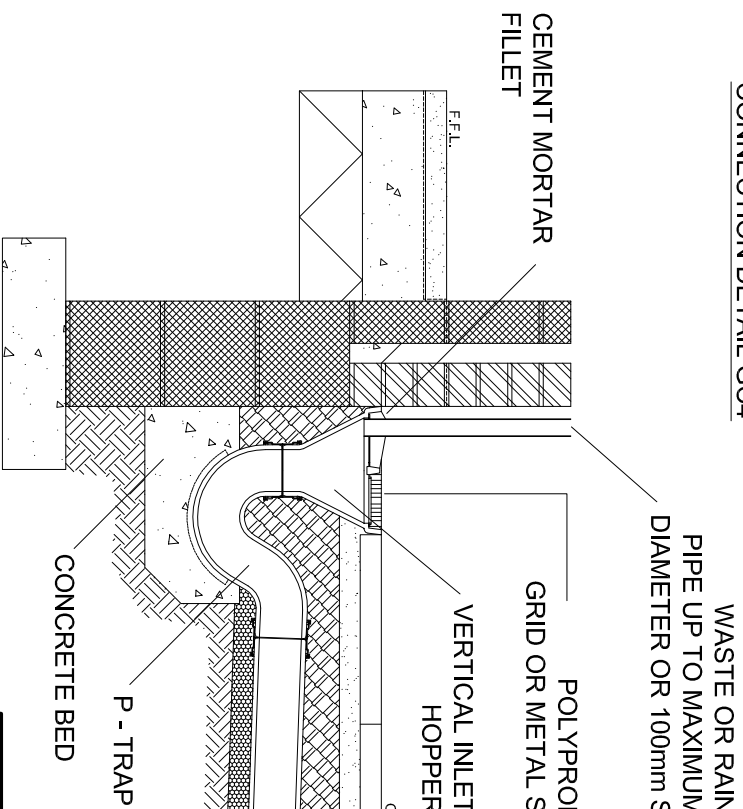
FILLET

CONCRETE BED

NOTES

1. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/CERTIFIED ON SITE.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S ENGINEERS AND SPECIALIST'S DRAWINGS AND SPECIFICATIONS
3. MAINTENANCE AND CONSTRUCTION ARE TO BE AS PER MANUFACTURES INSTRUCTIONS
4. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
5. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY

	KEY
	CONCRETE SURROUND TO BE GEN3 C20
	GRANULAR BEDDING AND SURROUND MATERIAL 225mm NOMINAL SINGLE SIZE
	UNEXCAVATED MATERIAL
	PLACED MATERIAL / CAPPING LAYER
	SUB-BASE COARSE GRADED AGGREGATE
	SELECTED EXCAVATED MATERIAL SHALL BE PLACED IN NO. GREATER THAN 225mm LAYERS COMPLYING WITH THE CIVIL ENGINEERING SPECIFICATION WITHIN SEWERS OF ADOPTION 7TH EDITION REF 5.3.4
	GRANULAR SUB-BASE MATERIAL (TYPE 1) DEPOSITED IN LAYERS NOT EXCEEDING 225mm IN UNCONSOLIDATED LAYERS AND THEN FULLY COMPACTED.

rev		Date	Name	Check	Note	THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF INSPIRE DESIGN & DEVELOPMENT LTD'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. INSPIRE DESIGN & DEVELOPMENT LTD ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. © INSPIRE DESIGN & DEVELOPMENT LTD 2016	
EXTERNAL RAINWATER PIPE CONNECTION						SOL PIPE/MC CONNECTION	
							
WHERE A COMBINED DRAINAGE SYSTEM IS BEING USED, A TRAPPED GULLY SHOULD BE USED AT THE BASE OF THE RAINWATER PIPE.							
PIPES NEAR BUILDINGS						PROTECTION FOR PIPES	
							
WHERE DIMENSION A IS GREATER THAN 1.0m, CONCRETE FILL TRENCH TO LEVEL.						WHERE DIMENSION A IS LESS THAN 1m, CONCRETE FILL TRENCH TO LEVEL OF UNDERSIDE OF FOUNDATIONS.	
JOINT FOR CONCRETE ENCASED PIPE						PIPES LAID AT SHALLOW DEPTHS IN ADAPTABLE TRAFFICKED AREAS.	
							
WHERE PIPES ARE SURROUNDED IN CONCRETE TO PROTECT NEARBY FOUNDATIONS, AN 18mm COMPRESSIBLE BOARD E.G. FIBREBOARD OR POLYSTYRENE SHOULD BE PLACED AROUND THE PIPE AT EACH JOINT.						PIPES LAID IN NON TRAFFICKED AREAS E.G. IN GARDENS WITH LESS THAN 600MM OF COVER, SHOULD BE PROTECTED AGAINST DAMAGE BY PLACING PAVING SLABS OR SIMILAR OVER THEM ACROSS THE WHOLE WIDTH OF THE TRENCH.	
PIPES LAID AT SHALLOW DEPTHS UNDER BUILDINGS						A LAYER OF GRANULAR MATERIAL OF 75mm MIN THICKNESS MUST BE LAID BETWEEN PIPES AND PROTECTION	
							
SIDEFILL MATERIAL TO BE PLACED EVENLY ON BOTH SIDES OF PIPE, TAKING CARE TO WORK UNDER THE LOWER QUADRANT OF PIPE, ENSURING THE PIPE IS NOT LIFTED. BOTH SIDES OF THE TRENCH SHOULD BE FILLED SIMULTANEOUSLY TO AVOID HORIZONTAL MOVEMENT OF THE PIPE.						ARCH OR LINTEL OPENING TO GIVE 50mm SPACE ALL AROUND THE PIPE.	
							
ROAD CONSTRUCTION						VERTICAL INLET HOPPER, TRAPPED, CONNECTION DETAIL GCL	
							
DRAWING TITLE: DRAINAGE CONSTRUCTION DETAILS SHEET 1						PROJECT: SNAPE HILL ROAD, DARFIELD	
DRAWING STATUS: FOR APPROVAL						CLIENT: D J ATKINSON CONSTRUCTION LTD	
DRAWN: GB						CHECKED: BC	
DATE: 04/10/2016						APPROVED: CR	
DRAWING NO.: DJA-1177-01-DR-002						SCALE @ A1: NTS	
						REVISION NO.:	