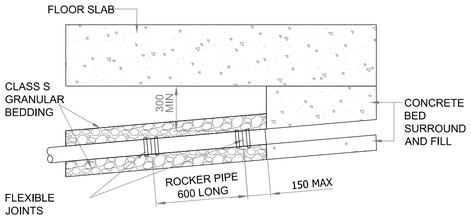
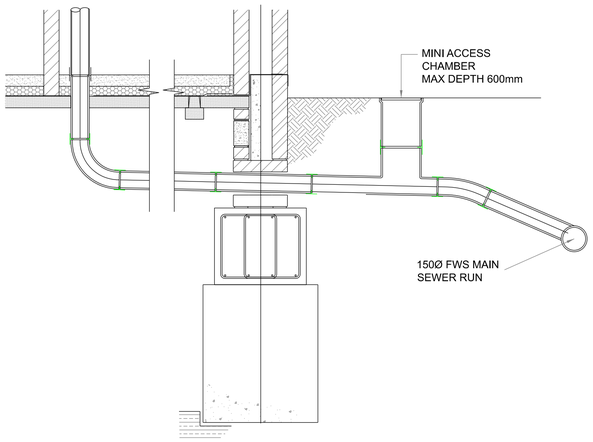
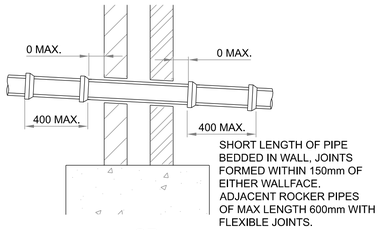


PIPELINE UNDER TYPICAL BUILDING SLAB

CONCRETE ENCASE WHERE COVER TO UNDERSIDE OF FLOOR SLAB IS LESS THAN 300 mm

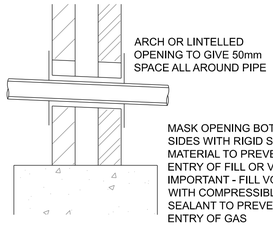


SOIL PIPE \ FOUL CONNECTION

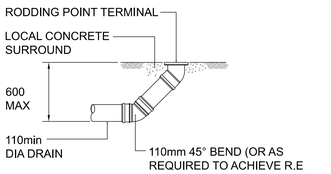


SHORT LENGTH OF PIPE BEDDED IN WALL, JOINTS FORMED WITHIN 150mm OF EITHER WALLFACE. ADJACENT ROCKER PIPES OF MAX LENGTH 600mm WITH FLEXIBLE JOINTS.

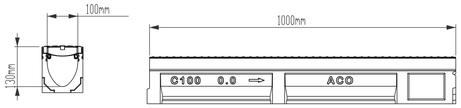
OR

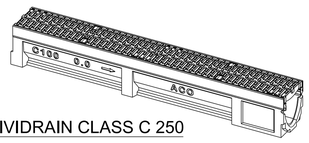


PIPEWORK PENETRATING WALL DETAIL



RODDING EYE





ACO CIVIDRAIN CLASS C 250

CBR (%)	SUB-BASE ONLY	CAPPING OPTION	
		CAPPING	SUB-BASE
2.0 & BELOW	-	600	150
2.5	350	400	150
3.0	300	350	150
4.0	270	300	150
5.0	250	250	150

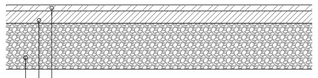
TABLE 1

NOTE: IF SUB-GRADE IS FROST SUSCEPTIBLE, MINIMUM CONSTRUCTION DEPTH TO BE 450mm

CBR (%)	MINIMUM THICKNESS (mm) OF SUB-BASE (CONSOLIDATED IN ACCORDANCE WITH MCHW VOLUME 1 CLAUSE 801, TABLE 8/1)	
	WITHOUT GEOTEXTILE UNDERNEATH	WITH GEOTEXTILE UNDERNEATH
2.0 & BELOW	N/A	300
2.0-3.0	325	225
3.0.-5.0	250	150
5.0-7.0	150	-
7.0-20.0	100	-

TABLE 2

FROM NHBC STANDARDS CHAPTER 9.2 MINIMUM SUB-BASE THICKNESS FOR PAVED AREAS

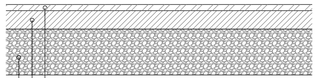


20mm WEARING COURSE, DENSE BITUMEN MACADAM (100/150 PEN) WITH CRUSHED ROCK AGGREGATE TO BS 4987 (GROUP THREE MIX) (0/6mm SIZE TO CLAUSE 7.5)

60mm BASE COURSE, DENSE BITUMEN MACADAM (100/150 PEN) WITH CRUSHED ROCK AGGREGRATE TO BS 4987 (GROUP TWO MIX) (0/20mm SIZE TO CLAUSE 6.5)

150mm MINIMUM THICKNESS OF TYPE 1 TO CLAUSE 803 TABLE 8/2 MCHW1 SERIES 800 REFER TO TABLE 2 FOR EXACT THICKNESS.

SINGLE BITMAC DRIVES AND PATHS



30mm WEARING COURSE, DENSE BITUMEN MACADAM (100/150 PEN) WITH CRUSHED ROCK AGGREGATE TO BS 4987 (GROUP THREE MIX) (0/10mm SIZE TO CLAUSE 7.5)

80mm BASE COURSE, DENSE BITUMEN MACADAM (100/150 PEN) WITH CRUSHED ROCK AGGREGRATE TO BS 4987 (GROUP TWO MIX) (0/32mm SIZE TO CLAUSE 6.4 OR 0/20mm SIZE TO CLAUSE 6.5)

150mm MINIMUM THICKNESS OF TYPE 1 TO CLAUSE 803 TABLE 8/2 MCHW1 SERIES 800 REFER TO TABLE 2 FOR EXACT THICKNESS.

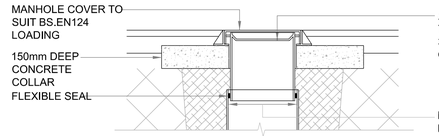
SHARED BITMAC DRIVES AND PATHS

30mm THICK 1:4 CEMENT:SAND MORTAR

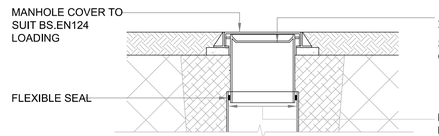
100mm SUB-BASE. CLEAN WELL CONSOLIDATED CRUSHED ROCK, HARDCORE(MAX. SIZE 75mm) SLAG OR CONCRETE, THE SURFACE OF WHICH TO BE BLINDED WITH 25mm OF SAND. SEE NOTE 5 REF. FROST SUSCEPTIBILITY

50mm THICK PAVING SLAB

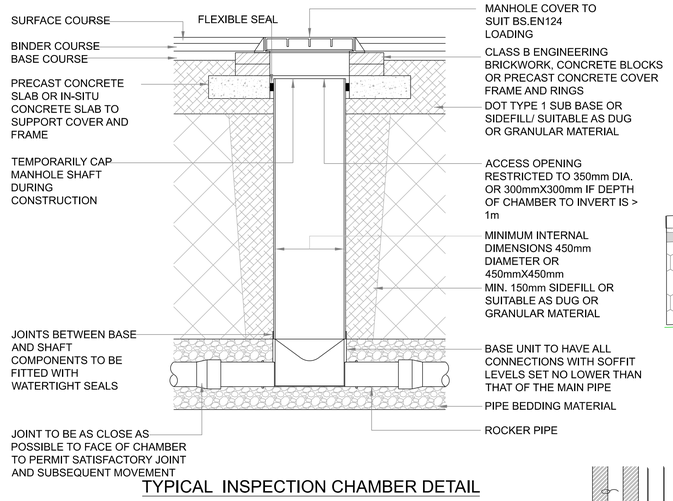
PAVING SLABS TO PATIOS, REAR GARDENS & ACCESS PATHS



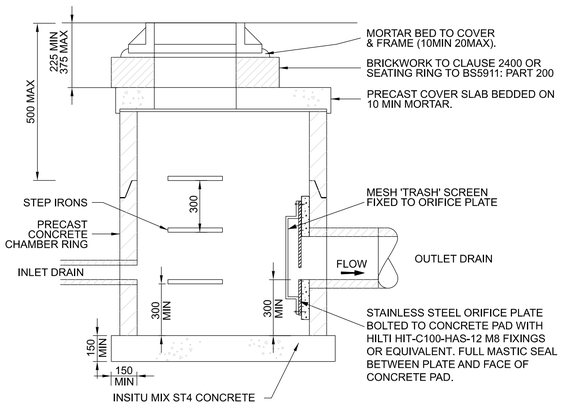
SITED IN DOMESTIC DRIVEWAYS OR FOOTWAYS



SITED IN DOMESTIC GARDENS



TYPICAL INSPECTION CHAMBER DETAIL



CATCHPIT WITH ORIFICE

SAFETY, HEALTH AND ENVIRONMENTAL

In addition to the hazards, risks normally associated with the type of work detailed on this drawing, note the following significant risks and information.

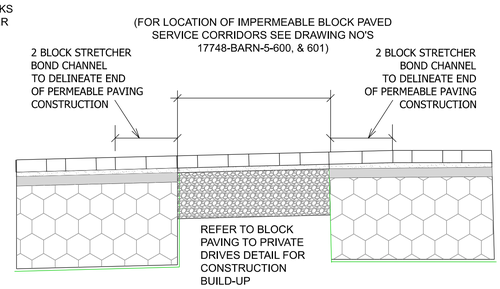
Construction:

1. The Contractor should make all necessary enquiries and take all necessary measures to identify the location of existing utilities running through the site. This includes the foul sewer located to the north and rising main to the middle of the site crossing east to west.

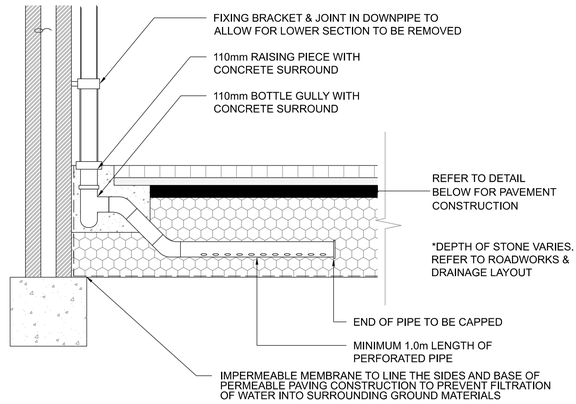
2. Unacceptable concentrations of arsenic have been located within the site which will require further testing to determine the extent and appropriate licenced disposal.

For information relating to end use, maintenance, demolition, see the health and safety file.

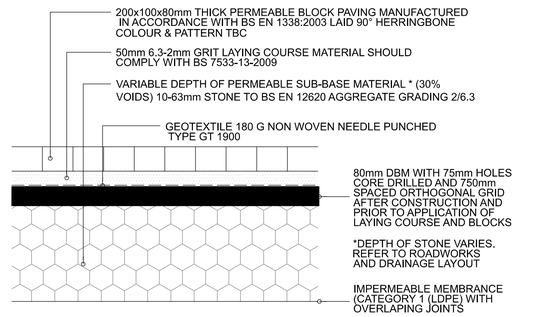
It is assumed that all works will be carried out by a competent Contractor, where appropriate, to an approved method statement.



TYPICAL CROSS SECTION ACROSS PERMEABLE BLOCK PAVED DRIVES INCORPORATING IMPERMEABLE BLOCK PAVED SERVICE CORRIDOR



RAINWATER DOWNPIPE DIRECT CONNECTION TO PERMEABLE PAVING



PERMEABLE BLOCK PAVED SHARED DRIVEWAY & PARKING BAYS

NOTES

1. Contractors must check all dimensions on site. Only figured dimensions are to be worked from. Discrepancies must be reported to the Architect or Engineer before proceeding.
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2. Until technical approval has been obtained from the relevant authorities, all drawings are issued as preliminary and not for construction. Should the Contractor commence site work prior to approval being given it is entirely at his own risk.

3. Woods Hardwick cannot accept liability for any discrepancies in terms of coordinates or any other information deciphered from dwg's.

4. Where the tests indicate that the sub-grade is frost susceptible a suitable capping layer should be included below the sub-base, to a depth that will ensure that the construction will not be affected by frost heave (minimum 450mm overall construction thickness). A capping layer can be any material not susceptible to frost heave. Soils that are not susceptible are sands and rocks.

5. When laid to either 90 or 45 degrees herringbone pattern then the edge perimeter to be laid with one single row of stretcher bond set parallel to the edge restraint. Where block pavers are laid abuttingdrainage channels, gulley grates and the like, the upper surface of the block pavers shall be set between 3 and 6mm above the grating.

6. Manufacturer's declared value markings W3 and S4 are acceptable if W3 is 1.0kg/m2 or less and S4 is 45 or more based on 'c scale unit' (with regard to abrasion, Class A2, no test result is greater than 23mm; and Class A1 = no performance determined) .

7. Formation to parking areas to be proof-rolled. Any soft spots en-counted are to be removed & replaced with granular Type 1 material laid in layers not exceeding 225mm thick fully compacted.

8. Compaction to be in accordance with DMRB document Tables 6/1 to 8/1. 2000kg/m2 vibrating plate compactor to pass 6 times to achieve adequate compaction on 150mm thick hardcore - 4 passes for 100mm hardcore).

9. All pipes running through walls to have at least 50mm clearance all round and the opening masked with rigid sheet material.

10. All private drainage works to be constructed in accordance with the latest edition of the Building Regulations Part H (Drainage & Waste Disposal) and to BSEN752 (Building Drainage).

11. Blockwork supplier to be consulted throughout the construction of the porous paving systems to ensure compliance with their standards.

12. The Contractors attention is drawn to the requirement for the porous pavement formation to be underlain with an impermeable membrane (Terram 1000 or similar approved).

REV	DESCRIPTION	DRN	CHD	DATE
B	ADDITIONAL NOTES ADDED	CLS	JGF	03-04-20
A	UPDATED DRIVE DETAILS	CLS	JGF	07-08-19

■ PRELIMINARY ☐ INFORMATION ☐ TENDER
☐ CONSTRUCTION ☐ AS BUILT

SCALE	N.T.S @ A1	DATE	JULY 2019
DRAWN	SD	CHK	JGF
DRAWING NO.	17748-BARN-5-920	REV	B
TITLE	YAPTON ROAD BARNHAM		
DETAILS	PRIVATE CONSTRUCTION DETAILS		

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS DRAWING