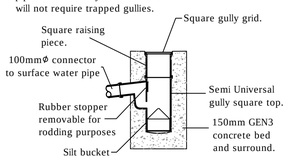
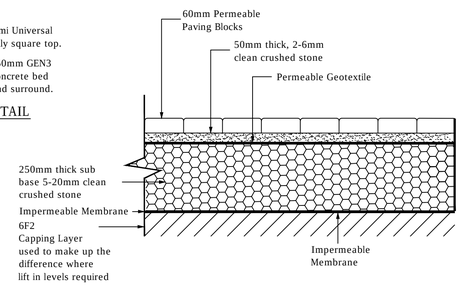
KEY:-

- Storm Inspection Chamber
- Private Surface Water Drain
- S123.123 Private Surface Water Text
- Storm Rodding Eye
- Foul Access Fitting
- Foul Inspection Chamber
- Private Foul Water Drain
- F123.123 Private Foul Water Text
- 123.12 Finished Floor Level
- Private Gully with connection
- DC Private Drainage Channel
- Lined Permeable Paving
- Connection from lined permeable paving
- Water butt

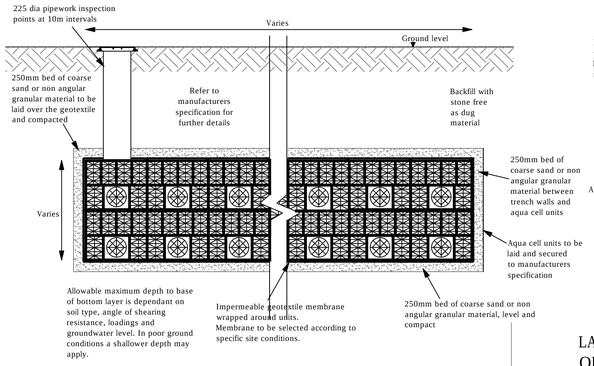
Trapped gullies to be utilised on drives and patio areas for the storm water. Internal connections and rainwater pipes are sealed systems therefore will not require trapped gullies.



TRAPPED YARD GULLY DETAIL
N.T.S

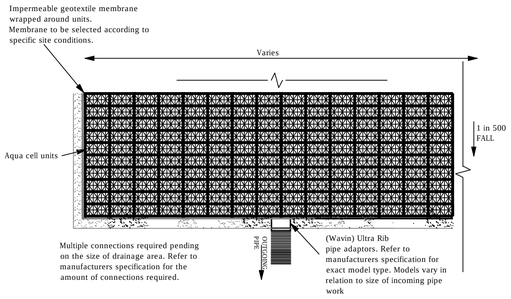


Typical Section through Lined Porous Paving Driveway.
(Refer to chosen manufacturers installation details).



TYPICAL AQUA CELL (CROSS SECTION) CONSTRUCTION DETAILS

TYPICAL AQUA CELL (PLAN VIEW) OF
OUTGOING CONNECTION PIPES CONSTRUCTION DETAILS



LATERAL COORDINATES
OF MANHOLES

1 442044.736 E 295027.900	13 441967.084 E 295110.838
2 442021.201 E 295050.947	14 441959.883 E 295139.677
3 442031.490 E 295056.111	15 441967.821 E 295143.246
4 442043.556 E 295080.887	16 442008.218 E 295136.646
5 441990.994 E 295072.203	17 442029.235 E 295080.347
6 441960.931 E 295055.720	18 442018.876 E 295091.827
7 441973.329 E 295054.052	19 441988.685 E 295072.103
8 441957.574 E 295020.993	20 441942.236 E 295082.104
9 441979.251 E 295021.485	21 441915.846 E 295095.230
10 441965.350 E 295096.647	22 441916.882 E 295056.621
11 441944.812 E 295083.124	23 441967.665 E 295109.526
12 441943.316 E 295095.156	

1. DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT CONTACT TRAVIS BAKER LIMITED.
2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS RELATING TO THIS PROJECT.
4. ALL DIMENSIONS SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHOULD BE IMMEDIATELY NOTIFIED IN WRITING TO TRAVIS BAKER LIMITED.
5. THE CONTRACTOR SHALL PRIOR TO CONSTRUCTION CHECK AND VERIFY THAT THE DETAILS SHOWN ON THIS DRAWING ARE FULLY COMPATIBLE WITH ANY AS CONSTRUCTED DIMENSIONS OR LEVELS. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY IN WRITING TO TRAVIS BAKER LIMITED.
6. THIS DRAWING HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE COMMISSIONING PARTY AND UNLESS AGREED IN WRITING BY TRAVIS BAKER LIMITED NO OTHER PARTY MAY USE OR RELY ON ITS CONTENTS. NO LIABILITY IS ACCEPTED BY TRAVIS BAKER LIMITED FOR ANY USE OF THIS DRAWING OTHER THAN FOR THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.
7. IT SHOULD BE NOTED THAT THIS DRAWING MAY INCLUDE DATA PROVIDED BY THIRD PARTIES. NO LIABILITY IS ACCEPTED BY TRAVIS BAKER LIMITED AS TO THE ACCURACY OF THIS DATA.
8. THIS DRAWING SHALL NOT BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF TRAVIS BAKER LIMITED.

DRAINAGE NOTES

1. THE CONTRACTOR IS TO CONFIRM THE POSITIONS, SIZES AND LEVELS OF ALL EXISTING SERVICES ON THE SITE AND ARRANGE FOR ANY DIVERSIONS THAT MAY BE REQUIRED.

2. PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH PART H OF THE BUILDING REGULATIONS 2002.

3. THE INVERT OF THE HORIZONTAL DRAIN AT THE BASE OF A STACK TO BE NOT LESS THAN 450mm BELOW THE CENTRE LINE OF THE LOWEST BRANCH PIPE. LEVEL TO BE SET TO ENSURE THAT AT LEAST 50mm CLEARANCE TO FOOTINGS.

4. MINIMUM GRADIENT OF UNDERSLAB DRAINAGE TO BE:
100mm 1 in 40
100mm 1 in 80 (min 1 WC)
150mm 1 in 150 (min 5 WCs)

5. WHERE A PIPE PASSES THROUGH A WALL AN OPENING IS TO BE FORMED THROUGH THE WALL TO GIVE AT LEAST 50mm CLEARANCE AROUND THE PIPE. BRICKWORK OVER SHALL BE SUPPORTED BY A LINTEL. THE OPENING IS TO BE MASKED EACH SIDE OF THE OPENING WITH RIGID SHEET MATERIAL.

6. GRANULAR SURROUND TO PIPES TO BE TO BS 882. WHERE CONCRETE SURROUND IS REQUIRED TO PIPES IT IS TO BE GEN3 WITH VERTICAL JOINTS FORMED AT THE FACE OF EACH FLEXIBLE JOINT USING 18mm THICK COMPRESSIBLE BOARD.

7. DRAIN TRENCHES SHOULD NOT BE EXCAVATED LOWER THAN THE FOUNDATIONS OF ANY BUILDING NEARBY UNLESS EITHER:

a) WHERE THE TRENCH IS WITHIN 1m OF THE FOUNDATION THE TRENCH IS FILLED WITH CONCRETE UP TO THE LOWEST LEVEL OF THE FOUNDATION, OR
b) WHERE THE TRENCH IS FURTHER THAN 1m FROM THE BUILDING, THE TRENCH IS FILLED WITH CONCRETE TO A LEVEL BELOW THE LOWEST LEVEL FOR THE BUILDING EQUAL TO THE DISTANCE FROM THE BUILDING LESS 150mm.

8. WHERE TWO CLAY PIPES CROSS WITH LESS THAN 300mm SEPARATION SURROUND EACH WITH GEN3 CONCRETE FOR NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. EXTEND CONCRETE SURROUNDS AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINT.

9. CONCRETE PROTECTION SHALL BE PROVIDED TO ALL UPVC PIPES WITH LESS THAN 600mm COVER AND TO ALL CLAY PIPES WITH LESS THAN 300mm COVER.

10. BACKFILL TO TRENCHES MAY BE SUITABLE EXCAVATED MATERIAL IN LANDSCAPED AREAS. TYPE 1 GRANULAR MATERIAL TO BE USED UNDER HARD STANDING AND ROADS.

11. ALL PRIVATE DRAINS TO BE 100mm DIAMETER UNLESS OTHERWISE SHOWN ON DRAWING.

12. ALL MANHOLE AND DRAINAGE CHANNEL COVERS SHALL COMPLY WITH BS.EN124 MANHOLE COVERS WITHIN BLOCK PAVED AREAS AND BUILDINGS SHALL BE RECESSED. COVER STRENGTHS TO BE:

CLASS C250 IN LIGHTLY TRAFFICKED AREAS (CAR PARK AISLES & CAR PARK SPACES). CLASS B125 (WITH MIN 100mm DEEP FRAME) IN LANDSCAPE AND NON TRAFFICKED AREAS (PLANTING, PEDESTRIAN AREAS ETC).

13. THE LEVELS AND POSITIONS OF ALL EXISTING MANHOLES AND LATERALS ARE TO BE CHECKED ON SITE PRIOR TO ANY WORKS COMMENCING. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.

FLOW CONTROL
MANHOLE (PRIVATE)
RESTRICTING
FLOWS TO 3l/s
0.4m DESIGN HEAD
I.L 107.90m

NEW CONNECTION &
MANHOLE OVER EXISTING
600MM CULVERT
I.L 107.35m (600mm)
I.L 107.80m (150mm)
(BOTH ASSUMED)

PROPOSED CELLULAR
ATTENUATION
0.4m DEEP X 15m(L) X 2m(W)
TO CATER FOR FLOWS
UP TO THE 100 YEAR
PLUS CLIMATE CHANGE
EVENT.
I.L 108.00m
VOLUME 12m³

EXISTING DITCH TO BE
OPENED UP/ENHANCED AND
USED AS ON LINE SURFACE
WATER STORAGE
APPROX VOLUME 26m³

PROPOSED CELLULAR ATTENUATION 0.4m
DEEP X 12m(L) X 4m(W) TO CATER FOR
FLOWS IN EXCESS OF THE 30 YEAR RETURN
PERIOD AND UP TO THE 100 YEAR PLUS
CLIMATE CHANGE EVENT.
I.L 109.44m
VOLUME 19.2m³

NEW CONNECTION
TO EXISTING PUBLIC
SWS MH

PRELIMINARY
SUBJECT TO SECTION
38 APPROVAL

REV	DESCRIPTION	DATE	BY	AUTH
D	REDUCED PLOTS 1-4 SLAB LEVELS	02.07.13	AG	APJ
C	AMENDED TO PLOTS 29-32	15.03.13	APJ	DGB
B	AMENDED PLOT 58 FRONTAGE TO SUIT REVISED LAYOUT AND VISIBILITY SPLAY	04.03.13	AG	APJ
A	INSERTED SPEED TABLE AND TACTILE PAVING	12.02.13	AG	APJ

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CLIENT
MORRIS HOMES
EAST MIDLANDS

PROJECT
STOKE ROAD
HINCKLEY

TITLE
PRIVATE DRAINAGE LAYOUT
SHEET 2 OF 2

DRAWN	AUTHORISED	SCALE	DATE
APJ	DGB	1:250@A1	07.03.12

PROJECT NO.	DRAWING NO.	REV
10053	102	D

STATUS.
PRELIMINARY

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