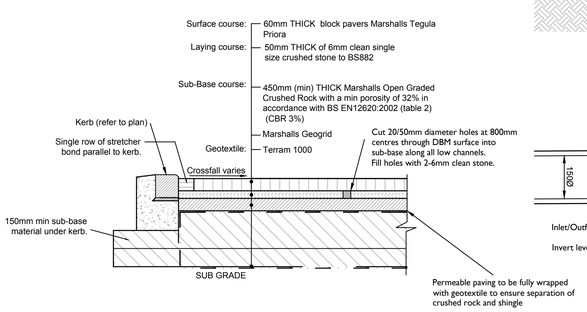
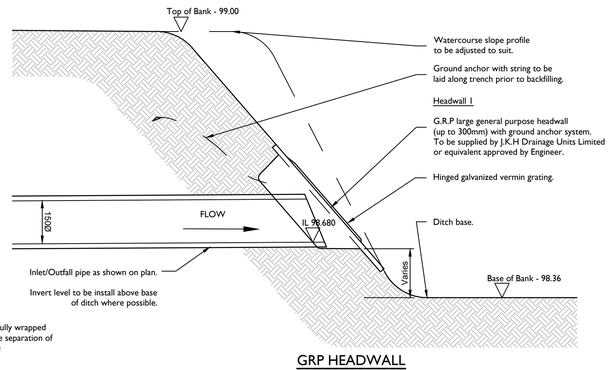
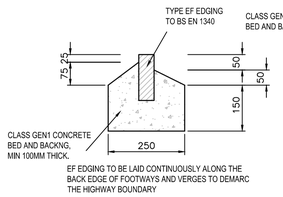



## GRP HEADWALL CROSS SECTION
(Scale 1:20)

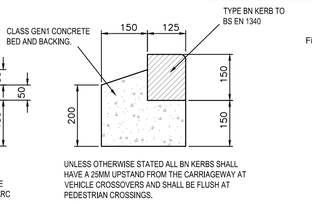
ALL FULL LENGTH PCC KERBS ARE TO BE MECHANICALLY HANDLED.

0-6mm @ Pedestrian Crossing
20-25mm @ Vehicular Crossing



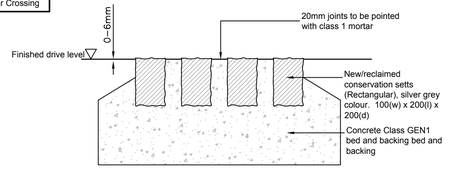

EF EDGING TO BE LAID CONTINUOUSLY ALONG THE BACK EDGE OF FOOTWAYS AND VERGES TO DEMARC THE HIGHWAY BOUNDARY

## EF EDGING
(Scale 1:10)




UNLESS OTHERWISE STATED ALL BN KERBS SHALL HAVE A 25MM UPSTAND FROM THE CARRIAGEWAY AT VEHICLE CROSSOVERS AND SHALL BE FLUSH AT PEDESTRIAN CROSSINGS.

## BN KERB DETAIL
(Scale 1:10)




## GRANITE SETT RUMBLE STRIP
(Scale 1:10)

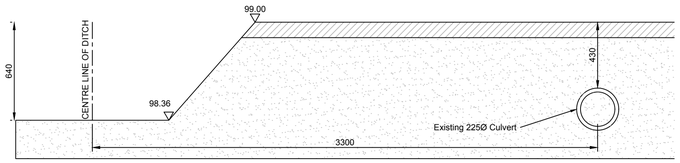
## PRIVATE KERB DETAILS

PRIVATE ACCESS & DRIVES NOTE:

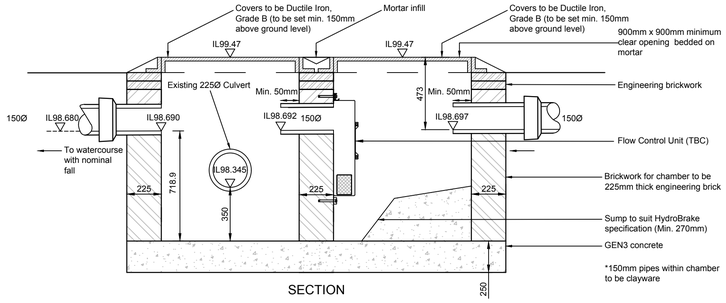
Contractor to excavate all topsoil to achieve a competent formation in the existing subsoil strata. Any make up back to the minimum formation levels shall be constructed in DoT Type 1/Type 2 granular material or other material meeting above grading requirements.

All areas regarded as 'soft spots' are to be excavated and replaced with suitable material beneath vehicular area. The contractor must assess areas of former foundations and trees to ensure and 'soft spots' are dealt with satisfactorily.

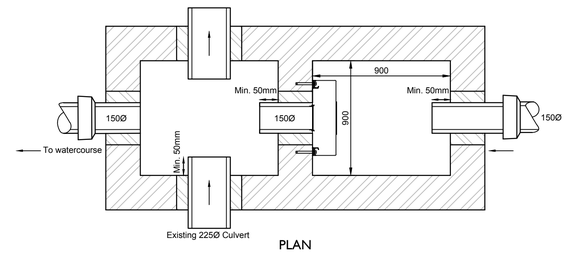
## PRIVATE DRIVEWAY POROUS BLOCK PAVING TYPE 1
(Scale 1:20)




## EXISTING WATERCOURSE SECTION
(Scale 1:20)



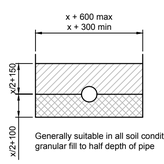

## SECTION




## PLAN

## FLOW CONTROL CHAMBER
(Scale 1:20)

The details shown above are indicative only and should not be used as a scaled drawing. Please refer to manufacturers installaion.




Generally suitable in all soil conditions granular fill to half depth of pipe

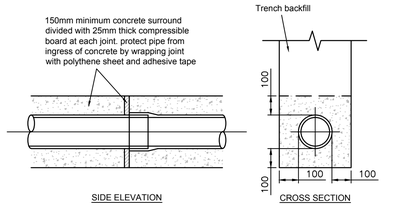
LEGEND:

Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber frozen material and vegetable matter.

Granular material: should conform to BS 882:1983 table 4 or BS8301:1985 Appendix D. Compaction fraction > 0.3 for class N > 0.2 for class F and B.

'x' - Denotes external pipe diameter.

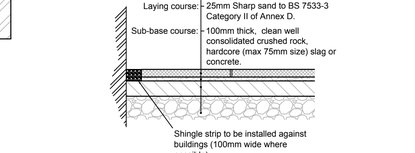
## PIPE BEDDING DETAIL UNDER DRIVES AND GARDENS
Min depth of cover 0.35m under private gardens and 0.5m under private drives
(Scale 1:20)



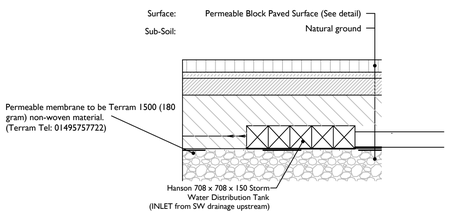

SIDE ELEVATION

CROSS SECTION

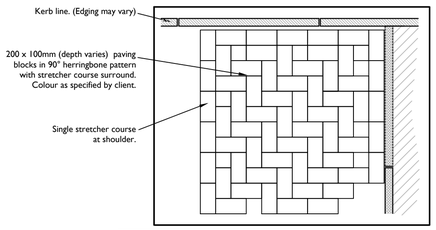
## CONCRETE BED AND SURROUND TO PIPES UNDER DRIVES AND GARDENS
Depth of cover less than 0.35m under private gardens and 0.5m under private drives
(Scale 1:20)




## PRIVATE PATIO/FOOTPATH AND BIN STORE CONSTRUCTION
(Scale 1:20)

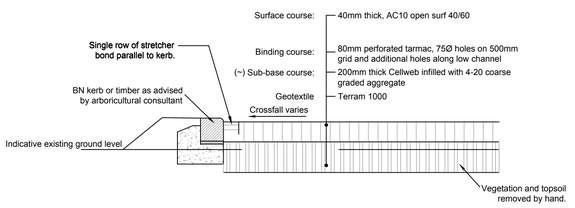



## DISTRIBUTION TANK DETAILS
(Scale 1:20)




Blocks laid in accordance with BS 6717

## BLOCK PAVING ARRANGEMENT PLAN
(Scale 1:20)




## ACCESS ROAD CONSTRUCTION (TREE ROOT PROTECTION)
(PAVERS)
(FOR FREQUENT COMMERCIAL VEHICLES)
(Scale 1:20)

## RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Unknown services/depths within work zone. Contractor to undertake necessary precautions.
2. The works will involve the movement of plant and machinery within a live carriageway and footway. There is a risk of potential conflict between plant/machinary and private vehicles/pedestrains. Contractor to undertake necessary precautions and ensure suitable traffic management is in place prior to commencement.
3. The work will involve the construction of a new headwall and outfall to the existing watercourse. Contractors should take care and necessary precautions when working within close proximity of water, particularly where manual handling may be required.
4. In order to connect the development to the existing sewer(s), work will involve contractors interacting with live sewers. Contractors should take necessary precautions.

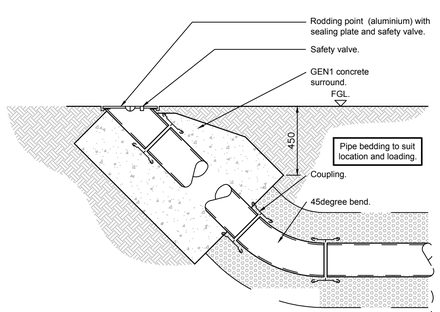
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

All areas regarded as 'soft spots' are to be excavated and replaced with suitable material within the extents of new Public Highway/Private access roads. The contractor must assess areas of former foundations and trees to ensure and 'soft spots' are dealt with satisfactorily.

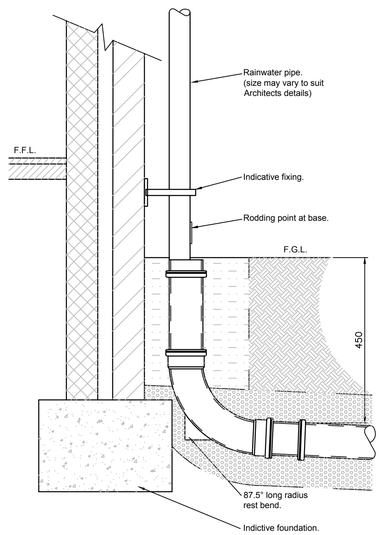
BOND AND TACK COAT SHOULD BE PROVIDED FOR BITUMINOUS MIXTURES IN ACCORDANCE WITH BS 4987-2 OR BS 594-2.

PAVING SLABS TO BE SET 5mm ABOVE ADJACENT DRAINAGE CHANNELS/GULLIES.

ALL FORMATIONS SHOULD BE PROOF ROLLED AND ANY VERY LOOSE, BULKY, SOFT, DEGRADABLE OR OTHERWISE UNSUITABLE MATERIALS THUS IDENTIFIED SHOULD BE REMOVED AND REPLACED WITH WELL COMPACTED COARSE GRAINED FILL. PREPARED SUBGRADES SHOULD BE PROTECTED FROM SEVERE ADVERSE WEATHER BY ENSURING THEY ARE GRADED TO FALLS TO PREVENT PONDING, AND THEY SHOULD BE REASONABLY PROTECTED FROM TRAFFICKING DURING CONSTRUCTION.




## DETAIL OF RODDING EYE
(Scale 1:20)




## DETAIL OF RAINWATER PIPE
(Scale 1:20)

## NOTES

A1

1. This drawing is to be read in conjunction with all other RGP drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. RGP accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. RGP logos and company information must be removed from copies if information is re-used.
7. The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
8. The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
9. The contractor must comply with all current legislation relating to health & safety.
10. All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any RGP drawings, the manufacturers instructions must be used.
11. Contractor to confirm all invert levels where connections are proposed prior to commencing any drainage works. Contractor to commence drainage works at the point of discharge.

DRAINAGE NOTES:

12. All drainage works to be constructed in strict accordance with specification of the local authority, building regulations, sewers for adoption, BS8301 & BSEN.752-1.
13. For location and setting out of building drainage points refer to architects drawings.
14. All pipe runs near buildings to comply with the building regulations 2002 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
15. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
16. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid with a concrete bed and surround.
17. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
18. All private building drainage shall be constructed in strict accordance with BSEN 752-1. unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of (<1l/s = 1 in 40>1l/s = 1 in 80) for foul drains and 1 in 80 for surface water drains.
19. All pipes, bends and junction for private building drainage shall be upvc conforming to BS4660 and BS5481 as appropriate and shall be laid in accordance with the manufacturer's specification.
20. All gully connections other than at manholes to be 'y' junctions. All road gully connections to be 150mm diameter.
21. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.
22. All connections to be soffit to soffit unless otherwise noted.
23. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
24. The locations and sizes of all svps and rwps shall be cross referenced against the architects drawings during setting out.
25. The precise depth and location and size of existing pipes or manholes where connections or diversion are proposed must be confirmed and reported to the engineer prior to commencement.

RGP SUPPORTING DRAWINGS:

| Drg No. | Drg Title. |
|---|---|
| 001 | Engineering Layout - Drainage, Proposed Levels and Contours |
| 002 | Engineering Layout - Surface Finishes & Setting Out |
| 004 | Construction Details Sheet 2 of 2 |

# CONSTRUCTION

| Rev. | Date | Amendments | Drawn | Appr. |
|---|---|---|---|---|
| C | 04/07/2018 | Details updated (Flow control chamber and headwall) - Construction Issue | SPB | MJA |
| B | 06/04/2018 | Details updated | SPB | MJA |
| A | 06/04/2018 | Flow Control Chamber Detail updated, Existing Watercourse Section detail added, Pipe Bedding Details added | SPB | MJA |
| - | 31/01/2018 | Original Issue | SPB | MJA |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Client: Knightsgate UK Ltd

Project: Land at 59 Elm Grove, Barnham, West Sussex PO22 0HJ

Drawing Title: Construction Details (Sheet 1 of 2)

| Scale | Drawn By | Checked By | Approved By |
|---|---|---|---|
| As shown | SPB | MJA | MJA |

| Date | Drawing No. | Rev. |
|---|---|---|
| April 2018 | 2017/D1393/003 | C |