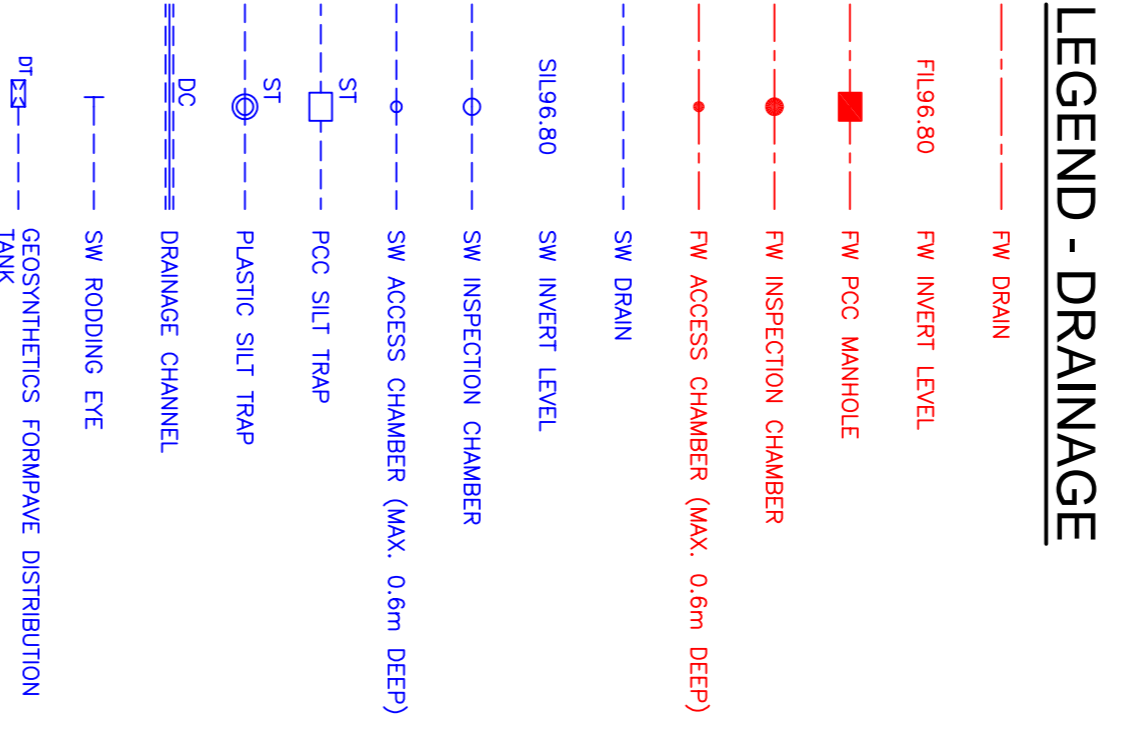


- ### NOTES
- All drainage shall be 100mm dia. and pipework shall be vitrified clayware to BS EN 295 or uPVC pipework to BS 4580 except when passing through a wall or roof where a ductile iron pipe shall be used.
 - All pipework under the Basement Floor slab is to have a concrete surround Bedding Type Y carried up to the underside of the floor slab and tied to the basement floor slab with U-bolts.
 - Flexible joints to be provided both sides where drainage passes through walls.
 - Backfill to trenches in under footpaths or areas with vehicular access or within 1.0m of such areas shall be with Type 1 granular material.
 - Clay pipes (rigid) to be laid to Class S or Z bedding details and PVC-U pipe (flexible) to have Class T or Z bedding details as appropriate to depth, location and proximity to foundations as required by Building Regulations.
 - Where RWPs are connected direct to a drain, rodding access pipes are to be provided.
 - Covers located in paving to have recessed covers to receive paving finish.



IF PERMEABLE SUB-BASE IS TO BE USED FOR CONSTRUCTION TREATMENT THICK ASPHALT CONCRETE LAYER

INTEGRATION STRATEGY FOR DISCHARGE OF SURFACE WATER TO THE GROUND SIZED FOR AN IMPERMEABLE AREA OF 460m² AND FOR THE CRITICAL 1 IN 100 YEAR + 40% CLIMATE CHANGE STORM EVENT. A MINIMUM 100m² AREA OF PERMEABLE SUB-BASE 300mm DEEP IS TO BE PROVIDED TO STORE THE CRITICAL PERMEABLE SUB-BASE STORAGE VOLUME. THE PERMEABLE SUB-BASE SHALL BE PROVIDED TO PREVENT MIGRATION OF STORED WATER TO THE LOWEST POINT. IF UNDERPINNING OCCURS, AND MADE GROUND IT MUST BE LOWERED UNTIL THE MICRO DRAINAGE CALCULATIONS PERMEABLE PAVING WILL PROVIDE TREATMENT OF THE RUNOFF TO PREVENT POLLUTION OF THE RECEIVING GROUNDWATER. GROUNDWATER IS 3.5m BELOW SURFACE. PERMEABLE PAVING IS TO BE INFLTRATED RATHER THAN DISCHARGED WATER FROM PERMEABLE PAVING IS TO BE PERMEABLE 55% THROUGH PERMEABLE PAVING. PERMEABLE PAVING SHALL BE 150mm DEEP. PERMEABLE PAVING WAS UNABLE TO BE COMPLETED AS PIT EMPTIED FASTER THAN HOLE COULD BE FILLED OF 0.400 m³ (1.11x10⁻⁴ m³)

Client: _____
 Project: _____
 Scale: 1:100 @ A1
 Number: _____
 Drawn: MJH Date: July 2017
Martin J. Harvey
 Consultant Civil Engineer
 3 Orwell Road, Hampshire GU31 4LD
 Email: martin@martinharvey.co.uk