

Foundation and Surface Drainage Installation Guide

The purpose of this brochure is to provide contractors, builders and home owners information concerning methods to install two pipe drainage systems in single family dwellings, two family dwellings and townhouses.

"This information is provided for convenience only and is not in substitution of applicable City Bylaws or Provincial or Federal Codes or laws. You must satisfy yourself that any existing or proposed construction or other works complies with such Bylaws, Codes or other laws."

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Attach RWL piping to foundation wall with steel strapping or lay piping on solid bedding

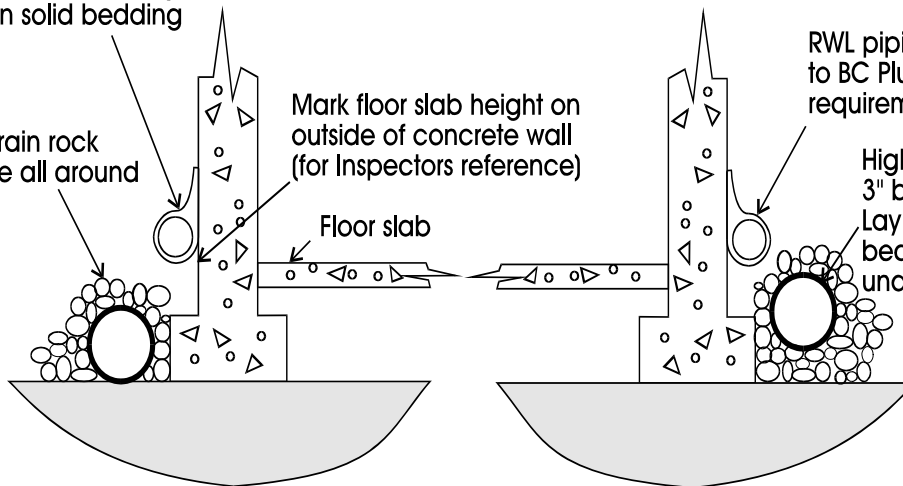
6" min. drain rock envelope all around

Mark floor slab height on outside of concrete wall (for Inspectors reference)

Floor slab

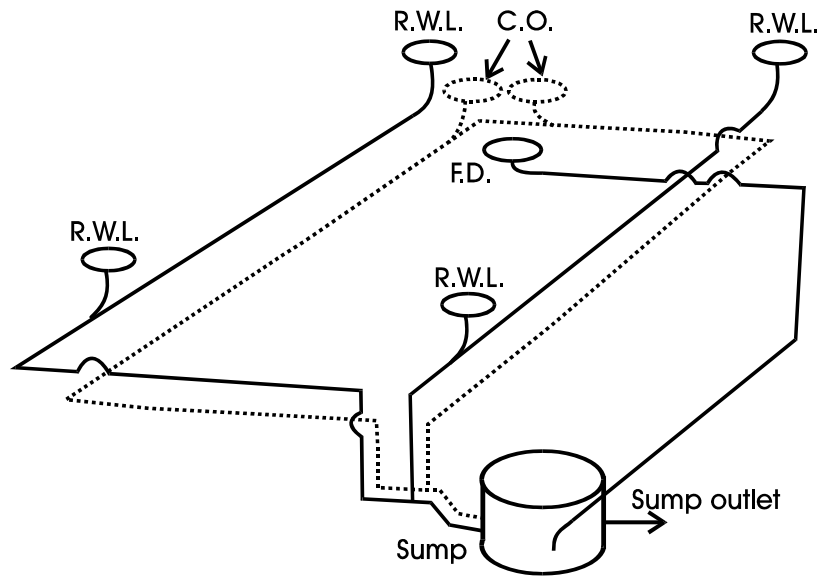
RWL piping must be installed to BC Plumbing Code requirements.

High point of drain tile 3" below top of slab. Lay piping on a gravel bedding base or on undisturbed soil.

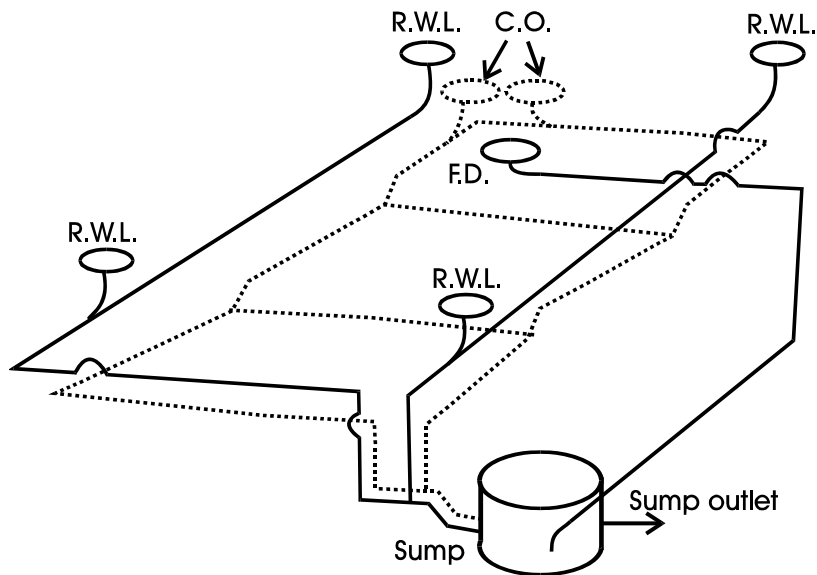


Section thru drain tile and R.W.L.

Typical drainage layout for a house with a single level concrete floor



Typical drainage layout for a house with multi-level concrete floor



Additional Requirements

- patio drainage may be directed to the rain water leader piping through a minimum 12 inch diameter sand trap.
- storm sump sizes are as follows:
 - 24 inch diameter up to 6 feet in depth (top to bottom)
 - 30 inch diameter over 6 feet in depth
- approved solid storm water piping for slab above grade floors must be laid on a 6 inch bed of drain rock or gravel. The drain rock or gravel must extend around the entire perimeter of the house and terminate at an opening into the storm sump. This will facilitate any surface water drainage.

Note: Perimeter drainage systems requiring pumping

1. R.W.L. piping system must be gravity installed.
2. Sump pump pit and pump must be designed by a registered professional who is retained to undertake design work and field review and who must provide letters pursuant to the current edition of the British Columbia Building Code.

Further information

If you have any questions or require additional information please contact the Plumbing section of the Burnaby Building Department at 640-294-7130.

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