



THE TOWN OF DAUPHIN

BY-LAW NUMBER 03/98

**A BY-LAW OF THE TOWN OF DAUPHIN TO AMEND BY-LAW
NUMBER 3640 TO REGULATE THE DISPOSAL OF SUBSOIL
DRAINAGE WATER.**

WHEREAS the Council of The Town of Dauphin has deemed it advisable and necessary to make amendment to By-law 3640 respecting the regulating of the disposal of Subsoil Drainage Water.

NOW THEREFORE the Council of The Town of Dauphin in regular session assembled, enacts as follows:

1. **THAT** The Town of Dauphin By-law No. 3640 be and is hereby amended by adding the "**Subsoil Drainage Disposal**" regulations attached hereto as "Schedule A".

DONE AND PASSED by the Council of The Town of Dauphin in Regular Session assembled at The Town of Dauphin, in Manitoba, this 23rd day of February, A.D. 1998.



Virginia Jamieson
Mayor



James Puffalt
Town Administrator

READ A FIRST TIME this 9th day of February, A.D. 1998.
READ A SECOND TIME this 9th day of February, A.D. 1998.
READ A THIRD TIME this 23rd day of February, A.D. 1998.

Schedule "A" To By-law No. 03/98 Subsoil Drainage Disposal

Section 1

- i) There shall not be any interconnection between the public sanitary sewer system and a subsurface drainage system. This applies to all new construction including new infill residential, new residential subdivision, commercial and industrial construction.
- ii) Where buildings are provided with a subsurface drainage system, (weeping tile), the system shall be constructed so that the drainage is directed to a sump pit equipped with a submersible pump and discharged outside of the building.
- iii) The drain tile located under the basement floor slab within the building, shall be non-perforated.
- iv) The installation of the sump pit and pump shall conform to Sections 2, 3, 4 & 5.

Section 2

- i) The sump pit shall not be less than 750mm deep, (30 inches), and have an end area of 0.25 square metres, (2.7 square feet). This requires the pit to have a volume of approximately 188.5 litres or 41.5 Imperial gallons.
- ii) The sump pit shall be constructed such that it may be sealed as to not allow radon gas to escape into the building. This includes any provision for required penetrations such as the discharge piping and wiring.
- iii) The sump pit shall be constructed of material with sufficient strength to withstand the pressures exerted on it.
- iv) The sump pit shall be equipped with a removable top to provide access to the submersible pump. See the attached detail of an approved sump pit.

Section 3

- i) Due to presence of radon gas, the installation requires the pump be a submersible style. This is required to ensure that the pit may be effectively sealed as to not allow radon gas to escape.
- ii) All pumps shall be CSA approved for a sump pit application. The pump shall be automatically controlled and set to maintain the water level below the lowest drain tile entering the pit.

- iii) The pump shall be appropriately sized to accommodate the volume of discharge required but shall be capable of discharging a minimum of 0.74 litres / second at a head of 3.6 m.
- iv) The pump motor shall be connected to a separate electrical circuit with no provision for connections of additional equipment or appliances.

Section 4

- i) All discharge piping shall be DWV quality ABS or PVC plastic and have a minimum internal diameter of 30 mm.
- ii) A check valve shall be installed between the pump and the underside of the sump pit lid.
- iii) A small ,(approximately 3 mm, 1/8 inch), relief hole may be drilled in the discharge pipe between the check valve and the connection to the pump. This relief hole prevents air bubbles from forming in the discharge pipe that could prevent the discharge of water even though the pump will run. This hole must always remain clear.
- iv) A coupling shall be installed on the discharge piping on top of the sump lid to facilitate pump removal and pit inspection.
- v) To avoid freezing, the discharge pipe shall have proper drainage where it passes through the basement wall.
- vi) The water shall be discharged into the rear yard onto an approved splash pad directing the water away from the building's foundation. The discharge water shall not affect adjacent properties. See the attached detail of a typical installation.

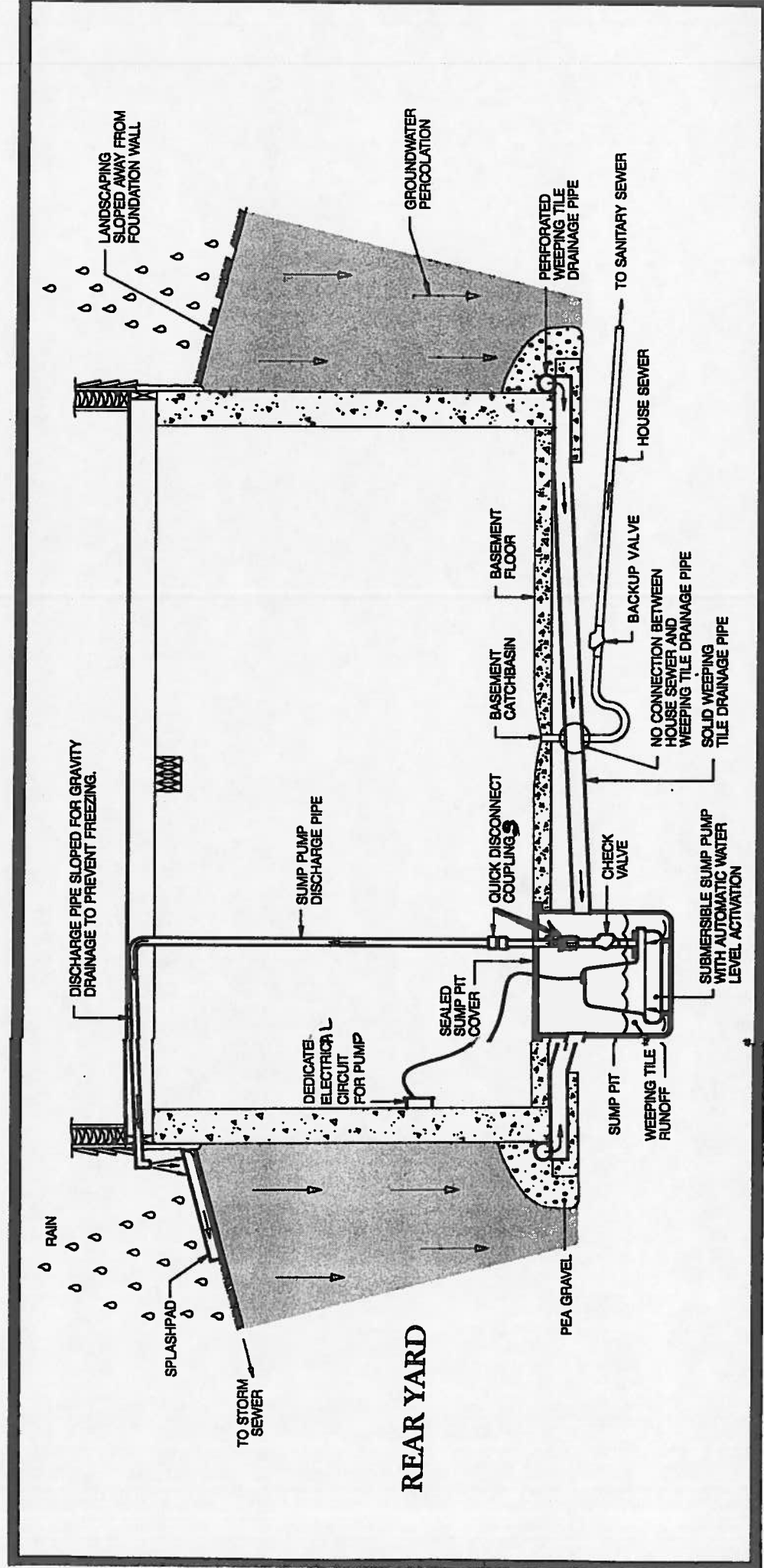
Section 5

- i) The installation procedure described above is for residential and small commercial applications, (maximum basement area being drained 232.5 square metres, (2500 sq. ft.). For installations into larger structures than described above, the entire disposal system shall be designed and constructed in accordance with sound engineering principles.

Section 6

- i) It is recommended that the sump pit and pump be inspected and tested monthly and daily during exceptionally wet periods. This will ensure the system will properly function when required.

Detail of Typical Sump Pit / Pump Installation



Detail of Approved
Sump Pit

