

Rural Municipality of Cartier

By-Law No. 1539-01

Being a By-Law of the Rural Municipality of Cartier to provide for regulating and controlling the installation, the maintenance and the number and kinds of pipes, fixtures and appliances that may be connected to Municipal Low Pressure Sewer Systems.

WHEREAS, the provisions of The Municipal Act S.M. 1996, c.58 - Cap. M225 provides in part as follows:

232(1) A council may pass by-laws for municipal purposes respecting the following matters:

- (a) the safety, health, protection and well-being of people, and the safety and protection of property;
- (l) public utilities;

AND WHEREAS, the Council of the Rural Municipality of Cartier deems it expedient and in the public interest to establish regulations to control the installation, the maintenance and the number and kinds of pipes, fixtures and appliances that may be connected to a municipal low pressure sewer system;

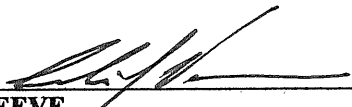
NOW THEREFORE, the Council of the Rural Municipality of Cartier in meeting duly assembled enacts as a by-law as follows:

1. That Schedule "A" attached hereto be and is hereby adopted to regulate and control the installation, the maintenance and the number and kinds of pipes, fixtures and appliances that may be connected to a Low Pressure Sewer System.
2. That the following described schedules attached hereto are hereby adopted and form part of this by-law:

Schedule "B" being a drawing of a "Typical Sewer Service Line"
Schedule "C" being a drawing of a "Typical Sewage Pump in
Basement Connected to Two Chamber Septic Tank.

3. That drainage from the sump pit must be directed to the outside of the building towards the natural surface drainage. The subsoil drainage must not drain into the sanitary sewer system. Inter-connection between the floor drain and the sump pit is not permitted.

DONE AND PASSED by the Council of the Rural Municipality of Cartier duly assembled at Elie, in Manitoba this 10th day of September, 2001.


REEVE


CHIEF ADMINISTRATIVE OFFICER

Read a first time this 27th day of August, 2001.

Read a second time this 10th day of September, 2001.

Read a third time this 10th day of September, 2001.

RURAL MUNICIPALITY OF CARTIER

BY-LAW NO. 1539-01

SCHEDULE "A"

(Attached to and forming part of By-Law No. 1539-01)

Low pressure Sewer Connections

1. PIPE

- 1.1 All discharge and suction piping must be low density Type 1 Polyethylene Series 75 factory marked CSA B137.0 and B137.1 and must be stamped with the CSA symbol. Pipe must be 32mm (1.25") diameter unless other material is otherwise expressly approved in writing by the Municipality.
- 1.2 Pipe connections must be made with insert fittings and clamps sized for the pipe fittings used at connections to pump (threaded) and must be coated with pipe joint compound approved for the type of material connection made. Clamps must be made entirely of stainless steel. Under no circumstances shall any iron or steel products be used underground, except stainless steel.
- 1.3 The service pipe must be installed with a minimum cover of 2.5 meters (8'), except under roads and driveways where cover must be not less than 3.0 meters (10').

2. SADDLE

- 2.1 The service saddle must be double strap or wide band type, with all metal parts to be stainless steel or bronze, with a rubber compression gasket and a threaded outlet.
- 2.2 The saddle must be secured to a length of low pressure sewer main which has been exposed and suitably cleaned. The bolts must be tightened snugly, but not over tightened so as to cause pipe wall deflection or kinking. A tapping tool (for live tap situations) must drill a 19mm (3/4") diameter hole through the corporation main stop and saddle into the pipe. A 25mm nipple with a 25mm x 32mm (1" x 1.25") adapter must be used to connect to the 32mm polyethylene pipe.

3. PUMP

- 3.1 Unless express written authorization is obtained from the Municipality, all pumps must be 1/3 or 1/2 horsepower, end suction centrifugal units designed expressly for septic tank effluent. For greater certainty, "grinder" pumps are not permitted under any circumstance. Pumps must be capable of pumping to within 10% of the following performance characteristics:
Minimum of 150 kPa (50') total dynamic shut off head and 55 liters @ 120 kPa (15 US gal. per min. @ 40') head.
- 3.2 Each pump discharge must be equipped with an external check valve (to prevent sewage backup from the main) and a shut off ball valve (to provide positive shut off) to allow for maintenance or replacement of the check valve or pump. Valves must be of a type suitable for septic tank effluent and for 300 kPa (45 psi) service.
- 3.3 All electrical equipment (motor, cable, controls, liquid level "Pil" float switches, etc.) must be approved by CSA and Manitoba Hydro, and installation must conform to the Canadian Electrical Code and Manitoba Hydro.

4. SEPTIC TANK

- 4.1 All septic tanks and installation tanks must conform to The Clean Environment Act (C130) and Regulation 95/88R associated therewith and to CSA Standard B66 or latest revised edition. Tanks must bear a CSA stamp.

SCHEDULE "A"
(Attached to and forming part of By-Law No. 1539-01)
Low pressure Sewer Connections

- 4.2 Tanks for individual homes must have a primary (sedimentation) chamber capacity of no less than 2250 liters (500 I.G.) and a control (suction line) chamber capacity of no less than 340 liters (75 I.G.). A baffle must separate the compartments and must be designed so as to prevent sludge or scum from entering the control chamber. Tanks must be either sulfate resistant concrete or fibreglass, with an access manhole extending to above ground (with child proof cover), must be water tight, and must be suitable for deep bury with 1.5 m (5') soil cover.
- 4.3 Fibreglass tanks must be bedded on a minimum 100mm (4") of sand or dry, loose fill and installed in accordance with the manufacturer's recommended installation instructions. Backfill immediately around the tank must also be of similar material.
- 4.4 Tanks must be installed such that they comply with minimum setback requirements as follows:

| | <u>Meters</u> | <u>Feet</u> |
|--|---------------|-------------|
| Building | 1.0 | 3.3 |
| Property line | 3.0 | 10.0 |
| Water supply well | 8.0 | 26.0 |
| Surface water (dugout, creek, river, lake, etc.) | 15.0 | 50.0 |
| Cut or embankment | 8.0 | 26.0 |
| Swimming pool | 3.0 | 10.0 |
| Cistern | 3.0 | 10.0 |
| Walkways or Driveways | 2.0 | 6.6 |

- 4.5 Tanks must be installed with the base level and the manhole plumb.

5. SUBSOIL DRAINAGE

- 5.1 The sump pit must be designed with a minimum floor area of 0.2m² (2.25 sq.ft.) a minimum depth of 0.75m (2.5') and must be provided with a cover capable of accepting the occupancy floor load.
- 5.2 The pumping units must be of the column type, the submersible type or the self-priming surface mounted type with a minimum 0.25KW (1/3 HP) motor capable of discharging a minimum flow of 0.75 L/s (12 gpm) at 4.6m of head and must be automatically controlled to maintain the water level below the lowest level of the weeping tile at the pit.
- 5.3 The discharge piping must have a minimum diameter of 32mm (1.25"), must be installed without check valves, and must discharge to a splash pad or within the limits of the property to maintain a minimum of 4.5m (14.8') setback from any lot line to direct water to the natural surface drainage. Direct discharge into a drainage ditch or swale is not permitted.

6. PLUMBING

- 6.1 All plumbing fixtures, including the soil pipe conveying household wastewater to the septic tank, must conform to the requirements of the Manitoba Building Code.
- 6.2 A CSA approved back water check valve(s) must be installed to protect all basement fixtures.

7. STRUCTURAL

- 7.1 All holes cut through walls to permit passage of pipe, cables or other conduits, must be sealed with "Quick Plug" or other watertight sealing agent.

SCHEDULE "A"

(Attached to and forming part of By-Law No. 1539-01)

Low pressure Sewer Connections

8. PERMIT

8.1 Prior to making a connection to a low pressure sewer main or to an existing service line at a property line, the property owner must apply for a permit at the municipal office.

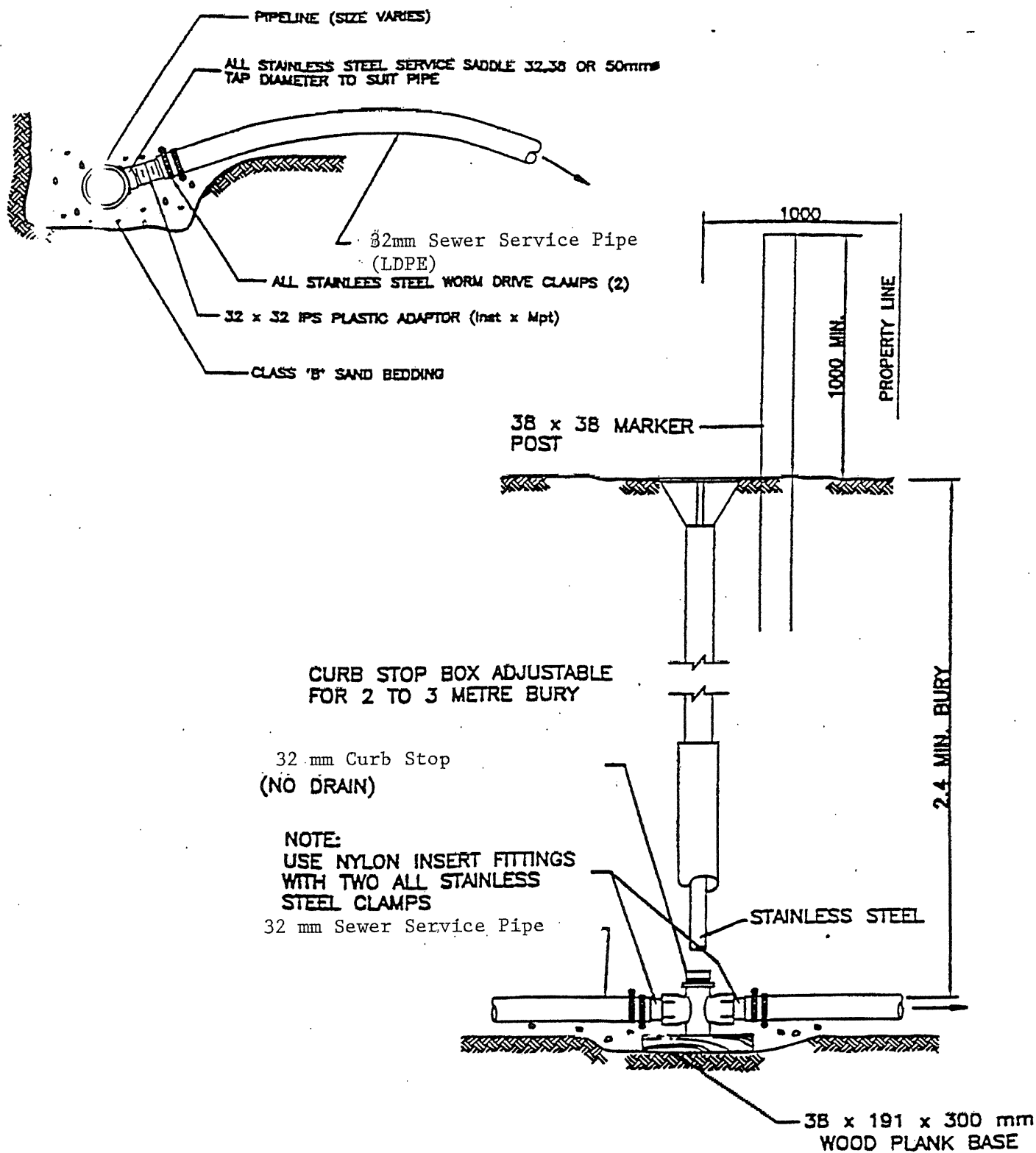
8.2 Such permit must identify the property owner, the location of the property, the name of the contractor or plumber making the connection, the date on which the connection is to be made, and such other information as the municipality may require, and may include the requirement to provide verification that the contractor or plumber making the connection is qualified to perform the work.

8.3 The property owner must ensure that the contractor or plumber making a connection to a low pressure main or to an existing service line at the property line, prepares and submits to the municipality an accurate service line record drawing on the form prescribed in Appendix "1". The record drawing must indicate the location of the service connection at the property line, the location of the septic tank and where the service line enters and stops in the building.

8.4 Permit applications or connection fees may be established from time to time by resolution of Council.

9. PUBLIC RIGHT-OF-WAY

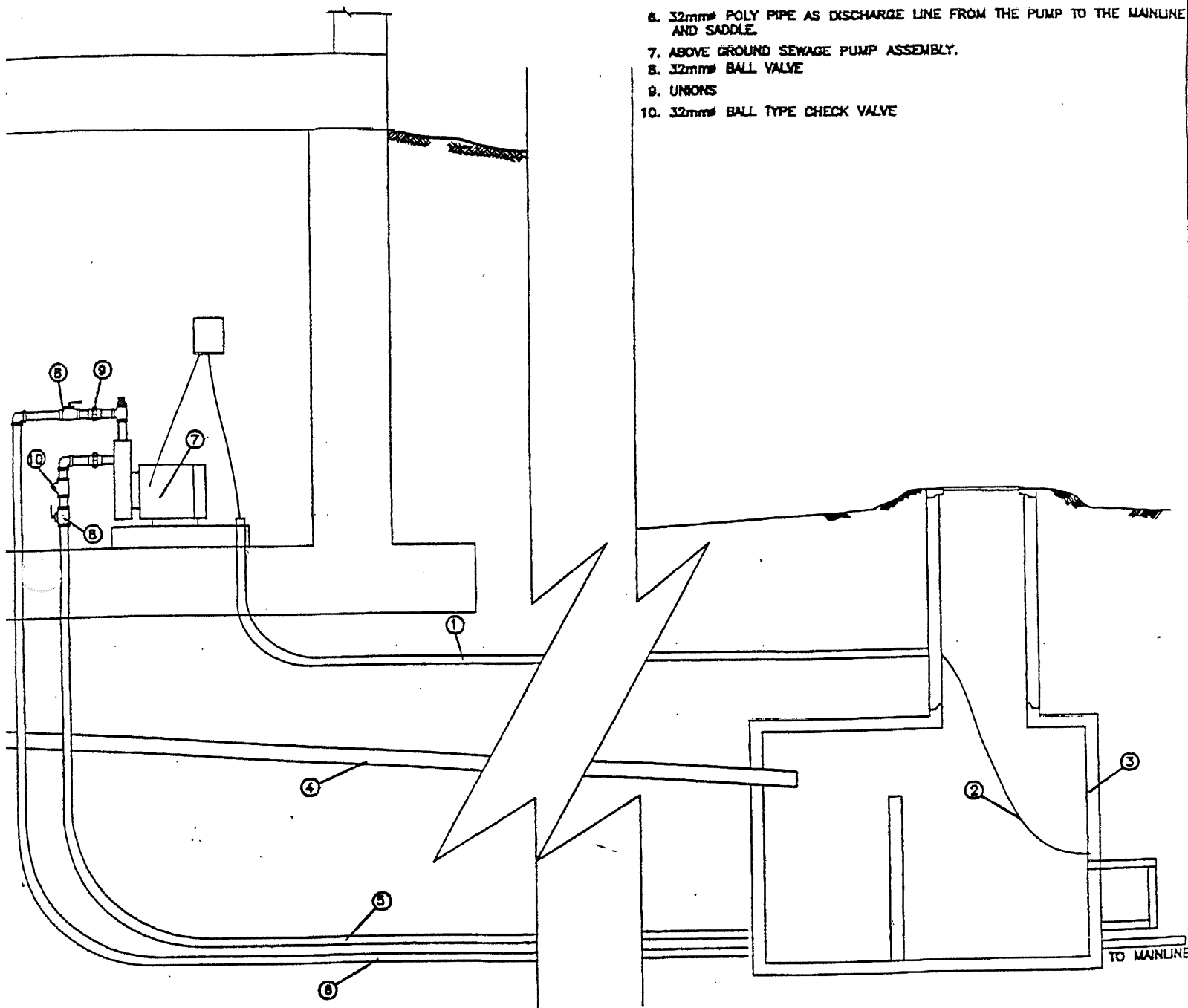
9.1 Where construction operations extend beyond the owner's private property onto the public road or lane right-of-way, all damage to said right-of-way must be restored to its original condition at the owner's expense. All construction operations are subject to all applicable Provincial laws and regulations and Municipal By-Laws and regulations.



Schedule "B" By-law No.1539-01

| | | | | | |
|---|-----------------------|------------------|-----------------------------------|------------|----------|
| PROVINCE OF MANITOBA THE MANITOBA WATER SERVICES BOARD DEPARTMENT OF RURAL DEVELOPMENT | | | TYPICAL SEWER SERVICE LINE | | |
| DRAWN RWN | CHECKED L. CIAPALA | DATE 98-02-23 | SCALE NTS | PAGE 07 | FILE NO. |

1. 32mm^Ø POLY ELECTRICAL CONDUIT FOR LIQUID LEVEL CONTROL CABLE
2. FLOAT TYPE LIQUID LEVEL CONTROL TO OPERATE SEWAGE PUMP.
3. SEPTIC TANK
4. 100mm^Ø PVC OR ABS GRAVITY SEWER DRAIN FROM HOUSEHOLD.
5. 32mm^Ø POLY PIPE AS SUCTION LINE PLACED ALONG THE EDGE OF THE TANK FROM THE TANK TO THE PUMP.
6. 32mm^Ø POLY PIPE AS DISCHARGE LINE FROM THE PUMP TO THE MAINLINE AND SADDLE.
7. ABOVE GROUND SEWAGE PUMP ASSEMBLY.
8. 32mm^Ø BALL VALVE
9. UNIONS
10. 32mm^Ø BALL TYPE CHECK VALVE



Schedule "C" By-law No. 1539-01.

PROVINCE OF MANITOBA

THE MANITOBA WATER SERVICES BOARD

DEPARTMENT OF RURAL DEVELOPMENT

TYPICAL

SEWAGE PUMP IN BASEMENT CONNECTED TO TWO CHAMBER SEPTIC TANK

DRAWN

CHECKED

DATE

SCALE

SHEET

FILE NO

RURAL MUNICIPALITY OF CARTIER
BY-LAW NO. 1539-01 – Appendix "1"

RECORD DRAWING/SITE PLAN
Sewer Service Connection Line

Street Name: _____ House Number: _____

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N

LEGEND

SEWAGE TANK



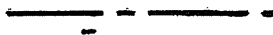
WATER TANK



CURB STOP



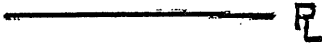
SEWER LINE



WATER LINE



PROPERTY LINE



PUSH HOLE/TRENCHED AREA

