

Municipal District of Mackenzie No. 23

Title	Rural Pipeline and Utility Crossings	Policy No.	PW031
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Purpose:

To establish a policy for **Rural Pipeline and Utility crossings**.

Policy Statement and Guidelines

The Municipal District of Mackenzie recognizing the requirement to accommodate pipeline/Utility crossings of road allowances, this policy sets out conditions of approvals, minimum construction standards and procedures to be followed.

General

- 1.1 The Municipal District of Mackenzie must be consulted at least two weeks prior to construction and is to be provided with survey drawings and plans indicating the location and the methods of construction to ensure that construction in the road allowance will not cause damage to or interfere with the construction, operation or maintenance of the road allowance.
 - a) Give the Municipal District of Mackenzie no less than two full working days notice in advance before commencing construction or maintenance work involving a ground disturbance;
 - b) Allow the Municipal District of Mackenzie to have a representative present to inspect such work;
 - c) The minimum depth of cover shall be specified by the Municipal District of Mackenzie and shall be measured from the lowest point of the ditch bottom. Warning signs shall be installed along the entire length of the pipeline route within the road allowance at such frequency or intervals as are required to clearly identify the location of the pipeline. The distance between warning signs shall be no greater than 300 meters.

- 1.2 Construct and lay the pipeline as close to 90 degree angle as possible to the road, unless otherwise approved by the Municipal District of Mackenzie.
 - a) Construct and lay the pipeline without employing use of any mechanical joint such as couplings, flanges, transition fittings or horizontal or vertical bends from property line to property line within the existing road allowance;
 - b) All trees, brush and other debris removed in the clearing operation, if required, must be completely disposed of to the satisfaction of Alberta Environmental Protection. In no case shall trees, brush or debris be buried within the road allowance;

- c) No open-cut methods for installing pipelines at any crossing of a developed road allowance unless approved by Municipal District of Mackenzie. No open excavation shall be closer than four meters from the shoulder of the road. Closed boring methods shall be used in non-cohesive soil conditions;
 - d) No open excavation shall be closer than six meters from a bridge pier or earth retaining structure;
 - e) No material or equipment shall be deposited or stored no closer than two feet from the outside edge of the road allowance;
- 1.3 Provide verbal notice to the Municipal District of Mackenzie prior to backfilling any excavation within the crossing area to enable the final inspection.
- a) Backfilling of all trenches in the road allowance or within six meters of a bridge pier or earth retaining structure shall be undertaken immediately after the line has been installed and has been passed necessary inspection;
 - b) Backfill material shall be thoroughly tamped in 15 centimeter layers with mechanical tampers and the operator will be held responsible for any backfill settling in for a period of one year after the completion of the work and final inspection.
- 1.4 After the completion of the work, restore the crossing area as closely as is practical to the condition in which it existed immediately prior to the work.
- a) If the operator fails to remedy an inadequately restored crossing area within 90 calendar days of being notified, the Municipal District of Mackenzie may take reasonable measures to complete the required restoration, the cost of such restoration to be borne to the operator;
 - b) Existing drainage to be accommodated and not altered.

Special Conditions

- 2.1 All road crossings shall be a minimum of two meters below the lowest part of the ditch or three meters below the road surface unless improvements are proposed.
- a) A greater depth may be required in cases where road improvements are proposed. If a depth less than two meters is requested, the applicant shall bear the cost of relocation if required in the future by the Municipal District of Mackenzie;
 - b) The depth of road crossings shall be maintained throughout the entire width of the right-of-way;
 - c) No horizontal or vertical bends will be permitted in the portion of the pipeline within the boundaries of the road allowance or within 7.6 meters of the boundaries on either side of the right-of-way without the approval of the Municipal District of Mackenzie.

- d) To accommodate future road construction all 20 meters road allowances are to be considered as 30 meters width right-of-way.
- 2.2 Standard of pipe to be used in all road crossings of improved roads shall not be less than the latest edition of the related CSA codes (For high pressure pipelines as determined by E.R.C.B.);
- a) All Energy Resources Conservation Board regulated pipeline must maintain a 30 meter setback from the edge of the road.
- 2.3.1 Conform to and comply with all terms and conditions of the Buried Utilities Construction Agreement and all statutes, laws, regulations, governmental order and directions in force affecting the pipelines, the crossing area and the work carried out thereunder.
- a) The operator shall be responsible for all damages to Municipal District of Mackenzie owned facilities, even if the work is carried out in the presence of Municipal District of Mackenzie employees or agents;
 - b) The operator shall indemnify and save harmless the Municipal District of Mackenzie, its employees and agents from any and all claims, demands, actions, and costs that may arise now or in the future, directly or indirectly out of any act or omission of the operator, its employees or agents, in the performance by the operator with regard to the Buried Utilities Construction Agreement.
- 2.4 Give the Municipal District of Mackenzie no less than two full working days notice in advance before commencing construction or maintenance work involving a ground disturbance or haul of any equipment or material into proposed work site using Municipal District of Mackenzie roadways.

	Date	Resolution Number
Approved	April 8, 2003	03-220
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