

## **Pipeline Crossings – Right-of-Ways Policy**

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**4A.014**

**Section: 4.0 Infrastructure Services**  
**- A. Roads**

**Authority: General Manager of Infrastructure Services**

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### **Statement**

The Municipal District of Bonnyville (M.D.) being the municipal road authority is responsible for the direction, control, and management of all municipal roadways within its boundaries. The M.D. recognizes the requirement to accommodate pipeline and utility crossings of road allowances in a manner that will not be detrimental to the municipality.

### **Purpose**

To set out the conditions of approvals, minimum construction standards, and procedures to be followed for pipeline and utility crossings of road allowances.

### **Definitions**

For the purposes of this policy:

- (1) “Pipeline” means a line of pipes for conveying water, gas, oil etc.;
- (2) “Liquid Pipeline” means a pipeline that is used to transport crude or natural gas in liquid form;
- (3) “Natural Gas Pipeline” means a pipeline used solely for the transport of natural gas to processing plants and are used for distribution.
- (4) “Steam Pipeline” means a pipeline used to transport high pressure steam, typically as part of an oil sands operation.

### **Policy**

- (1) All requests for road and road allowance crossings and pipeline-related construction must be accompanied by survey drawings.
- (2) Developed road allowances shall be crossed using the boring method unless otherwise approved.
- (3) Undeveloped road allowances may be crossed using the open cut method.
- (4) In established oil sands developments where no other types of development are anticipated in the foreseeable future, above grade steam pipelines may be allowed to cross undeveloped road allowances. These requests will be considered on a case-by-case basis and approved at the discretion of the General Manager of Infrastructure Services.

- (5) All buried pipelines are to be installed taking into consideration the width of the existing road right-of-way, plus an allowance for future widening up to 30m or 40m depending on the road classification, and must meet the following standards:
  - (a) If crossing an undeveloped road allowance, the top of the pipeline elevation is to be a minimum of 3m below the lowest ground elevation as per Figure A from Pipeline Crossings Right-of-Way (*Attachment A*).
  - (b) If crossing a developed road allowance, the elevation of the top of the pipeline elevation is to be a minimum of 2m below the lowest ground elevation as per Figure B from Pipeline Crossings Right-of-Way (*Attachment A*).
  - (c) At the crossing, the elevation of the top of the pipeline is to be a minimum of 2m below the inverts of all existing ditches as per Figure C from Pipeline Crossings Right-of-Way (*Attachment A*).
  - (d) At the crossing, the elevation of the top of the pipeline is to be a minimum of 4.0m below the elevation of the road surface at its centerline as per Figure D from Pipeline Crossings Right-of-Way (*Attachment A*). This is to allow for the establishment of standard depth ditches where they do not currently exist.
  - (e) At the crossing, the pipeline is to be installed with additional cover when the pipeline is at the top of a steep vertical curve in the road as per Figure E from Pipeline Crossings Right-of-Way (*Attachment A*). This additional cover is to allow for the future flattening of the vertical curve and will be determined by the M.D. (minimum 1m).
- (6) Warning signs shall be placed on either side of the road allowance to identify the location of the buried services. These signs are to be maintained by the owner of the pipelines.
- (7) Each application to cross a road allowance with a pipeline shall be accompanied by a:
  - (a) \$1,000 fee payment for pipelines exceeding 30 centimeters in diameter for pre- and post-inspection, for each road allowance crossed.
  - (b) \$200 fee payment for pipelines less than 30 centimeters in diameter for pre and post-inspection, for each road allowance crossed.
- (8) All residential service lines are exempt from the fees outlined in Section (7).
- (9) The applicant and/or successor must agree in writing to save harmless and keep indemnified the M.D. from and against any liability which the municipality may sustain or be liable for, in consequence of having permitted the applicant to cross the road allowance with a pipeline or utility service.
- (10) The applicant and/or successor must agree in writing to re-locate their buried or above grade services at their own expense if and when required by the municipality due to road construction.
- (11) Maintenance of all road crossings shall be at the expense and responsibility of the owner.
- (12) The municipality is to be notified a minimum of one (1) working day prior to commencing with the pipeline/utility road allowance crossing construction.

- (13) All pipeline/utility road allowance crossings shall be restored to their original condition or to the satisfaction of the municipality.

## Policy Review

Within five (5) years from date adopted / amended / reviewed.

### For administrative use only:

<b>Previous Policy Number:</b> (prior to July 24, 2019)	30.32.11
<b>Related Documentation:</b> (plans, bylaws, policies, procedures, etc.)	Attachment A: Pipeline Crossings Right-of-Ways Drawings Policy: Road Construction and Development (#4A.001)



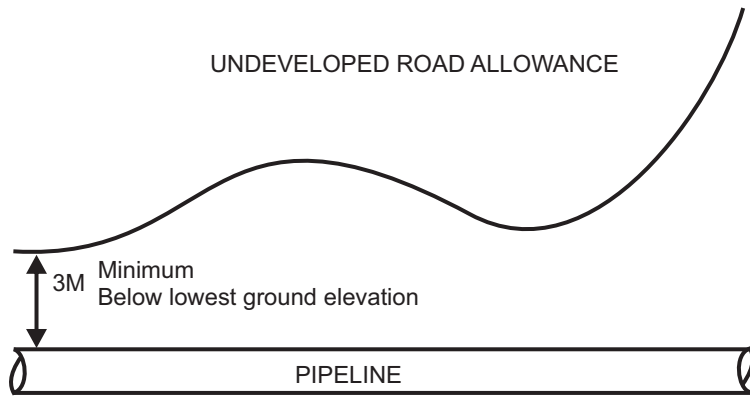
# Pipelines Crossings – Right-of-Ways Policy: ATTACHMENT A

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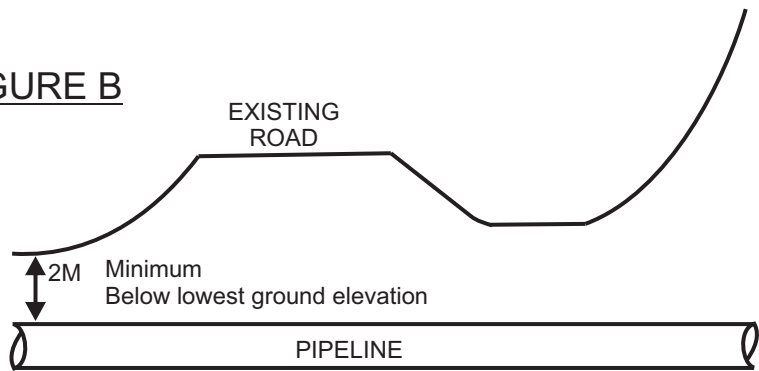
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## Municipal District of Bonnyville Pipeline Crossings – Right-of-Ways Drawings

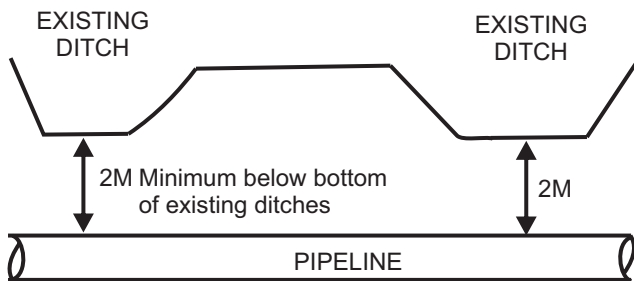
**FIGURE A**



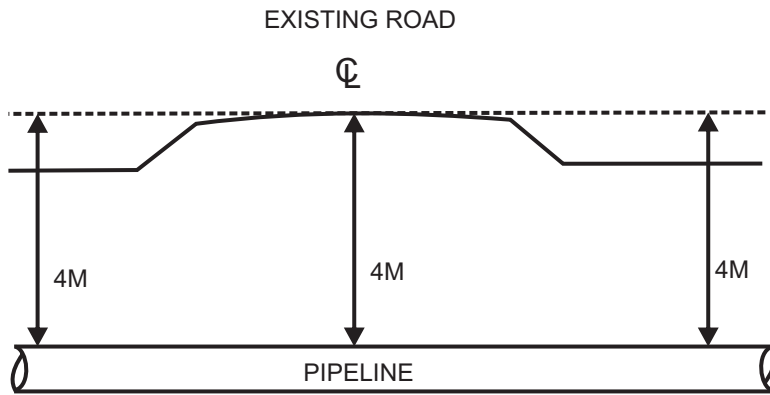
**FIGURE B**



**FIGURE C**



**FIGURE D**



**FIGURE E**

