

## **Design characteristics of a crossing**

The following provides design guidance for crossings. While exceptions might be made once an assessment has been completed, adhering to the guidance will assist in efforts to process applications expeditiously.

### **General Requirements**

- The crossing shall occur as close as possible to 90 degrees.
- The crossing shall not occur at a bend in a TransCanada pipeline.

### **General Conditions for Crossings of TransCanada Pipelines by Highways, Private Roads, and Railways**

- A highway or private road shall be constructed so that the travelled surface is no less than 1.5 m above the top of the pipeline.
- The bottom of the ditches adjacent to roads should not be less than 1.4m above the top of the pipeline.
- Minimum cover for railway crossings (below base of rail) is 3.05 m for uncased pipe.

### **General Conditions for Crossings of TransCanada's Pipelines by Utilities**

- TransCanada shall retain the upper position in the crossing area.
- Minimum separation between buried facilities shall be 300mm (600mm during installation) for open cut excavations and 1000mm for horizontal directional drill installation methods.
- The utility depth shall be maintained for the entire width of the right-of-way.
- The utility shall have no bends within the pipeline right-of-way
- The utility shall have no joints, splices or other connections within the TransCanada pipeline right-of-way.
- Pipeline crossings should not be placed within 7m of a TransCanada pipeline bend.

### **General Conditions for Pathways and Landscaping on the TransCanada Right-of-Way**

- Pathways on the right-of-way should have a 5 metres separation from the edge of a TransCanada pipeline.
- Pathway width shall not exceed 3 metres
- Trees must not obscure the overhead view of the TransCanada right-of-way as it is regularly patrolled by aircraft or facilitate access to fenced facilities.
- Tree roots must not interfere with the TransCanada pipeline
- Landscaping must not block vehicle access along the right-of-way