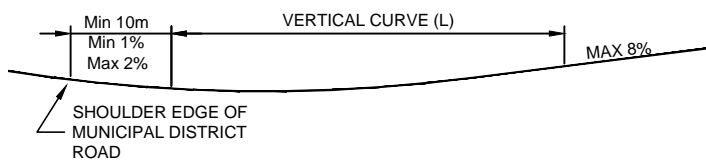


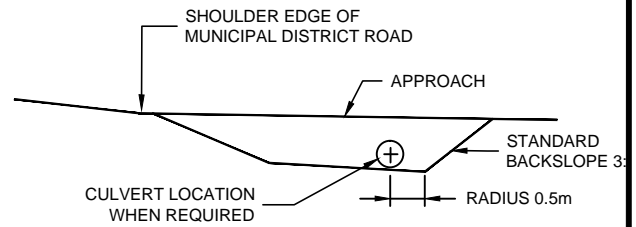
NOTE:

INTERSECTION ANGLE TO BE IN RANGE 80 TO 100



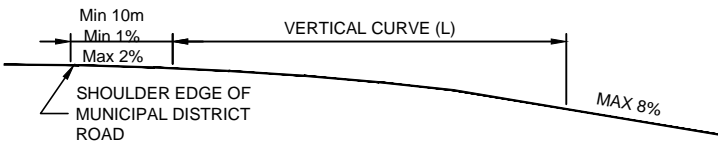
SECTION A

PRIVATE APPROACH IN CUT



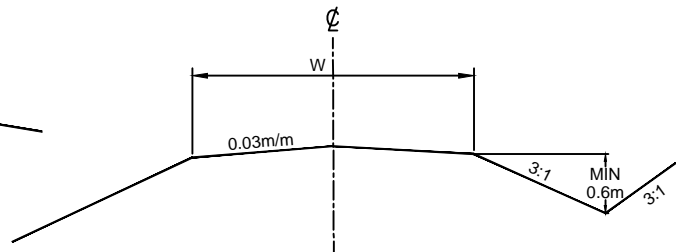
DETAIL OF

DITCH AND CULVERT LOCATION



SECTION A

PRIVATE APPROACH IN FILL



PRIVATE APPROACH

CROSS-SECTION

MINIMUM LENGTH OF VERTICAL CURVE		
ALGEBRAIC DIFF IN GRADIENT (%)	LENGTH (m)	
	CREST	SAG
1	6	8
2	12	15
3	16	23
4	24	30
5	30	38
6	37	46
7	/	46
8	/	46
9	/	46

TABLE FOR DETERMINATION OF APPROACH WIDTH		RADIUS OF INTERSECTION EDGE OF SHOULDER (R)
USE	APPROACH WIDTH, W (m)	
		BASE
RESIDENTIAL	8	10-15
AGRICULTURE	10	15-20
INDUSTRIAL	10	15-20



**MUNICIPAL DISTRICT
BONNYVILLE NO. 87**

**A MINIMUM 400mm CULVERT
REQUIRED**

Scale: **N.T.S.**

Date: **OCT 2016**

Drawn By:
MD of Bonnyville

**DESIGN SPECIFICATIONS
FOR ROAD APPROACHES**

The Municipal District of Bonnyville No. 87

CONSTRUCTION STANDARDS FOR ROAD APPROACH

1. Minimum of 400mm = 16 inch diameter culvert. All culverts installed must be corrugated metal pipe with whistled ends (beveled). All culverts are to be sized to the drainage requirements of the ditch.
2. In the instance that there is no ditch depth, then approval from the Municipal District will be required for approach installation without a culvert.
3. All topsoil must be removed from ditch prior to culvert installation for ease of water flow.
4. Approach surface must be crowned with a minimum of 300 mm = 1 foot of compacted clay cover at the shoulders of the approach with finish grade at a minimum of 50 mm = 2 inches of 20 mm = $\frac{3}{4}$ inch crushed gravel, compacted
5. Road Approach shall be a minimum roadway width for:
 - residential approaches 8 meters (26.24 feet)
 - agriculture/industrial approaches 10 meters (32.8 feet).
6. All exposed culvert ends to be packed with hand size rocks to prevent erosion around culvert ends.
7. Road approaches should have a minimum distance separation of 30 meters (100 feet) and align with existing approach(s) across from both sides of the municipal road when possible.
8. Road approaches should be a minimum of 100 meters (328 feet) from the intersection of any municipal roads and highways.