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Rural Municipality of Corman Park No. 344 Policy

Policy #TS-010

Policy Title: Main Farm Access Road Construction

Policy Objective: To outline standard procedures for construction of a farm access road.
Authority: (Bylaw#, Resolution date/#) Resolution #32, November 4, 2013

Policy:

Construction Procedures

Shall include the installation of all necessary drainage structures and construction of drainage ditches. Culverts should be designed for at least a Q^{15} flow, with a minimum culvert size of 500 mm diameter. Riprap only where necessary to avoid undue erosion. All culverts will be constructed of metal unless approved by the Municipality prior to construction.

Construction shall include all road connections and approaches. See attached plan – Standard Approach.

The average shoulder elevation of the road surface to be approximately 0.5 meters above the adjacent ground surface, except in cuts.

Objectionable organic material shall be subcut where the fill is less than 0.3 meters in depth.

The subgrade surface shall not be less than 1.0 meters above high water level on the ground water table. (ie: level to which free water would rise in a hole sunk in the ground).

Road surface, side slopes, ditches and back slopes shall be bladed smooth to conform to the typical cross-section.

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Where necessary to provide a smooth, stable driving surface, the road shall be capped with a layer of clay material. The depth of clay cap shall be a minimum of 0.3 meters. Gravel shall be incorporated in the top 100 mm of the subgrade prior to traffic gravel being applied. Gravel incorporation shall be done according to the Municipal Specification attached. The gravel specification for incorporation is Type 103 or 104.

Gravel surfacing for the subgrade required at the rate of 180 m^3/km for the first application, 150 m^3/km for the year following construction and additional applications as required. The required gravel specification for traffic gravel is Type 106 or 108.

Alignment – curves must be constructed with the proper super-elevation using 80 km/hr design speed and emax = 0.08.
– minimum radius of curvature = 250 m, preferred radius = 300 m.

Required Construction Standards:

- Right-of-way width = 30 meters (purchased).
- Roadway must be built as to be centered within Right-of-Way
- Full width of right-of-way to be cleared.
- The standard basic finished top width for main farm access roads is 7.0 meters.
    - Top width for curves = 7.6 meters.
- Sideslopes =3.1
    - fills 2 – 3 meters = 7.6 m top width
    - fills over 3 meters = 8.0 m top width
- Backslopes - 5:1, with maximum of 3:1
    - 5:1 backslope is to be maintained until top of backslope reaches the edge of right-of-way. The backslope will remain at the edge of the right-of-way to a maximum of 3:1.
- Snowclearance – When shoulder grade elevation is 0.3 meters or less above natural surface at 15.0 meters to 20.0 meters from center line then the backslope must be flattened using a variable slope of 5:1 to a maximum of 3:1.
- Maximum gradient – 9%. In unusual circumstances – 11%.
- Stopping sight distance – 85 meters minimum.
- Clear vision at road intersection – minimum of 85 meters from the point of intersection on municipal roads and grid intersections and to a maximum of 140 meters on main farm access roads using 60 km/h design speed.