

Schedule "A" (December 2009)

Approach Construction Guidelines

Statement

To outline the circumstances and specifications for the construction of approaches to local roads.

Procedure

One approach per parcel per 805 metres (1/2 mile) is allowed at no cost to the landowner. Physically severed parcels may be allowed additional accesses, providing the cost to the Municipal District is reasonable. A gate, if required, must be installed at the expense of the landowner before construction of the approach is done and to enable the staff to properly finish the approach and ensure that the landowner is committed to access the land from the new access point.

Approaches shall be constructed to the standards shown on Drawings 10.24 and 10.25.

If the Municipal District determines that a culvert is required, the minimum allowable size is 500 mm.

All approaches should be at a lower elevation than the applicable public road so that drainage patterns remain unaffected.

On requests for widening of existing approaches, the Municipal District will supply all materials and installation to complete widening of one approach per 805 metres (1/2 mile) to the applicable standards.

Should the landowner require an approach with the finished driving surface exceeding the applicable standards, the additional cost shall be borne by the landowner.

If landowners desire to install their own approaches, the Municipal District, Public Works have the discretion to first approve the application, and secondly to determine the required specifications.

The Municipal District, Public Works Department will check with the Municipal District Planning Department to ensure that the Municipal District is not building or upgrading access to comply with a subdivision requirement. If so, the responsibility for the cost lies with the applicant.

Culverts and Drainage

The minimum allowable ditch grade shall be 0.5%. Ditch grades in excess of 2.0% shall be protected against erosion through rock ditch checks, silt fences, Enviroberm fences and/or erosion control blankets. Typical installation is illustrated in Standard Detail Drawing 10.26.

Ditch side slopes and back slopes shall not be steeper than 3:1.

The minimum ditch bottom width shall be 3.0 metres along arterial roads and 1.0 m along the collector and local roadways, sloping away from the roadway at a minimum of 5.0%.

Culvert size requirements shall be determined through the storm water drainage analysis; however, the minimum size culverts shall be as follows:

- Roadway cross culvert 600 mm
- Residential approach culvert 500 mm
- Industrial approach culvert 500 mm

Culverts shall be new galvanized C.S.P. with a minimum wall thickness of 1.6 mm, or as required by the loading criteria.

All culverts shall be installed in accordance with the manufacturer's recommendations.

In high density residential developments, all culverts shall be installed with bevelled end sections on both the inlet and outlet sides, with the invert extended to the toe of the side slope.

All culverts, except those in industrial developments, shall be installed to provide a minimum depth of cover of 300 mm or one-half the culverts diameter, whichever is greater. This should be measured from the finished shoulder grade of the roadway to the top of the culvert as shown on the Standard Detail Drawings. Culverts in industrial developments shall be installed to provide a minimum depth of cover of 500 mm or one-half the culverts diameter, whichever is greater, as measured from the finished shoulder grade of the roadway to the top of the culvert.

Riprap shall be placed around the inlet and outlet of each culvert, with the riprap extending a minimum of 1.0 metre beyond the ends of the culvert. Rip-rap material shall consist of rock ranging in size from 150 mm to 350 mm with 50 % of the rock material being larger than 200 mm. A typical rip-rap installation is illustrated in the Standard Detail Drawings.

Road Surface Finishes

The Municipal District presently approves three types of roadway surface finishes:

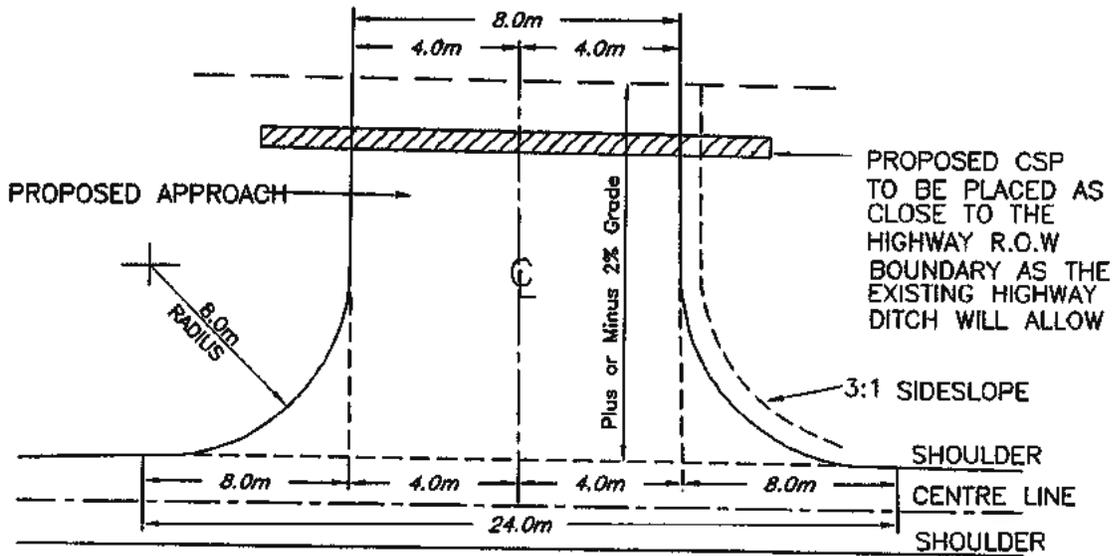
- 1) Graveled surface,
- 2) Asphalt stabilized base course surface (A.S.B.C.),
- 3) Asphaltic concrete (hot mix asphalt) pavement surface (A.C.P.)

Roadways in all subdivision developments shall be surfaced with asphaltic concrete pavement (hot mix asphalt). The exception, with the approval of the Director of Field Services, is in low-density residential subdivisions where Asphalt Stabilized Base Course may be permitted, provided the subdivision is approved without water truck haul traffic. The Municipal District will require the developer to supply a deposit to complete the A.S.B.C. surfacing as part of the development agreement. The Municipal District will consider the surfacing when the subdivision is two-thirds occupied.

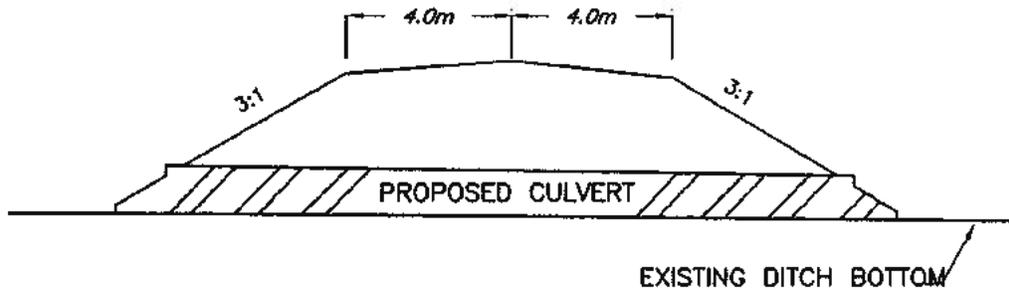
Irrespective of the roadway surface finish approved by the Municipal District for a specific development, good roadway industry construction practices and techniques shall be employed at all times. Furthermore, roadway subgrade and base construction shall be undertaken with the view that an asphaltic concrete pavement will ultimately be placed as the surface finish for the roadway.

Should a gravelled surface be approved, even for an interim period, the surface gravel shall be a minimum compacted layer of 50 mm depth of 20 mm crushed gravel. All approaches shall be similarly treated.

TYPICAL PRIVATE APPROACH



APPROACH CROSS SECTION



APPROACHES

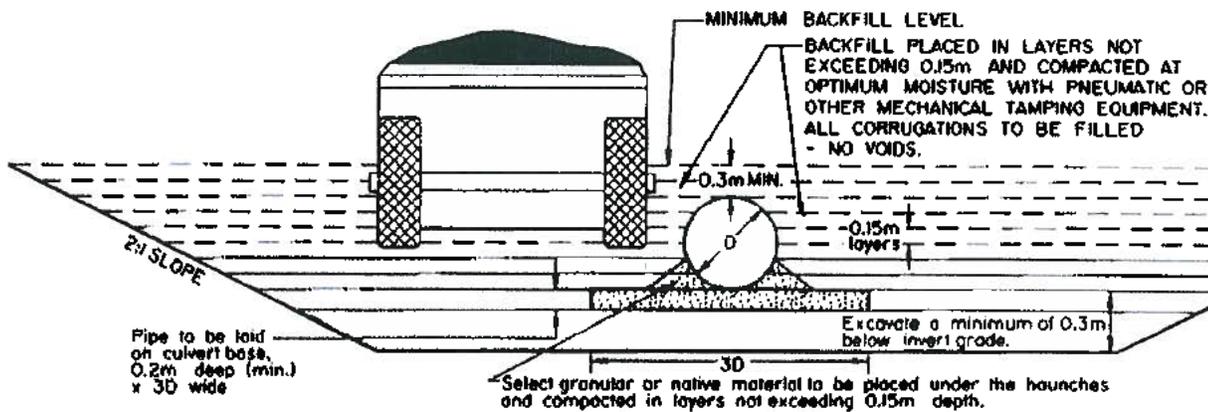
- 1- APPROACHES SHALL BE CONSTRUCTED SO AS TO CONFORM TO ALBERTA TRANSPORTATION SPECIFICATIONS AS DETAILED
- 2- ONLY SUITABLE, COMPACTABLE MATERIAL IS TO BE USED
- 3- ALL DISTURBED AREAS IN THE ROAD RIGHT OF WAY SHALL BE LANDSCAPED AND SEEDING
- 4- MINIMUM 500MM CULVERT SHALL BE INSTALLED IF REQUIRED
- 5- SIGHT DISTANCE MUST BE 300M OR MORE FROM THE APPROACH IN EACH DIRECTION
- 6- NO BRUSH OR DEBRIS SHALL BE LEFT OR DISPOSED OF WITHIN THE RIGHT OF WAY

USE	ROADWAY WIDTH W (m)	
	SINGLE	JOINT
RESIDENTIAL	6.0	8.0
AGRICULTURAL	8.0	10.0

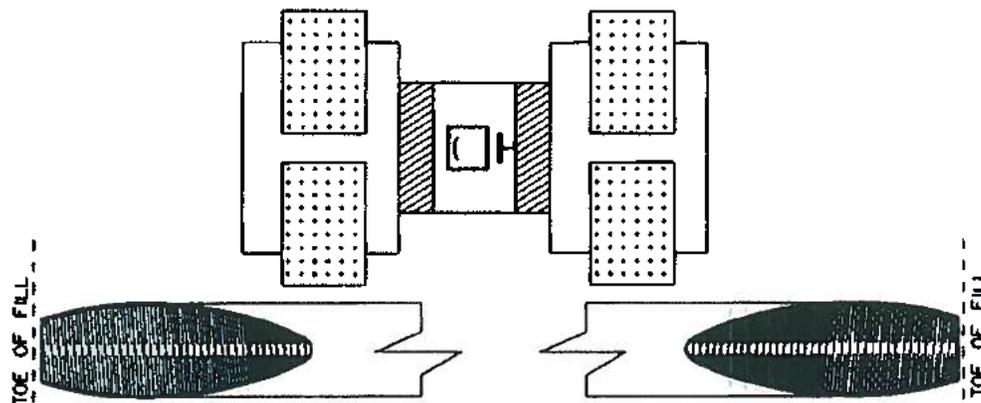


MINIMUM APPROACH STANDARDS

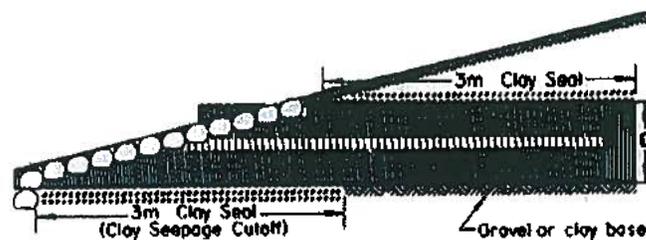
Project No.	4006035	
Scale	N.T.S.	Date
Standard Detail No.	10.24	



EXCAVATION, CULVERT BASE AND BACKFILLING



COMPACTION (PLAN VIEW)



Clay seal for seepage to be placed at both ends, for a length of 3m, and to the top of the pipe.

CLAY SEAL DETAIL



CORRUGATED METAL PIPE CULVERT INSTALLATION

Project No.	1006035
Scale	N.T.S. JUNE 2009
Standard Detail No.	10.28

- Less than 30m (100 ft.) from an existing approach on the same side of the road right of way.
- Less than 30 m (100 ft.) from any bridge.
- Less than 30 m (100 ft.) from any at-grade railway crossing.
- Less than 30 m (100 ft.) from the intersection of two Municipal roadways.
- Less than 6 m (20 ft.) from a utility pole.
- Less than 6 m (20 ft.) from a fire hydrant.

NOTE: Variances may be considered for development within an Industrial Park, and Residential Subdivision.

6. Parcels of land less than 10 ac (4 ha) that fall within the following developing districts:

- Agriculture
- Agriculture/County Residential
- County Residential/Mobile Homes
- Public Institutional
- Hamlet
- Recreation/Open Space

will be limited to one (1) access approach, unless written authorization to have additional access approaches is granted by the Municipality.

Parcels of land greater than 10 ac (4 ha) within the previous mentioned developing districts or in an industrial area will be limited to two (2) access approaches, unless written authorization to have additional access approaches is granted by the Municipality.