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Geometric Design Guide for Canadian Roads: Chapter 7 - Roadside Design

PTM-GEODES7-E

The *Geometric Design Guide for Canadian Roads* is a fundamental reference document for roadway design practitioners in Canada. It contributes to the consistent and safe development and expansion of regional, provincial, and national roadway and highway systems in Canada.

The 2017 Guide contains the current design and human factors research and practices for roadway geometric design. **Updates to technical content in chapters 2, 5, 7, 9 and 10 will be included as of August 19, 2019.** [Summary of Revisions](#)

The Guide provides guidance in developing design solutions that meet the needs of a range of users while addressing the context of local conditions and environments. Design guidelines for freeways, arterials, collectors, and local roads, in both urban and rural locations, are included as well as guidance for integrated bicycle and pedestrian design.

Chapter 7 – Roadside Design introduces road safety concepts and the use of quantitative analysis to evaluate roadside safety design options. The fundamental concept of the clear zone is outlined, as is how the concept can be applied by providing appropriate cross section and drainage elements to allow for driver recovery. Mitigation and protection techniques to reduce the severity of fixed-object collisions with roadside furniture including signs, luminaires and traffic barriers are outlined. A discussion of roadside design in urban environments and for low volume roads is also included.

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The 10 chapters in the Geometric Design Guide for Canadian Roads are: 1 – Design Philosophy; 2 – Design Controls, Classification and Consistency; 3 – Alignment and Lane Configuration; 4 – Cross Section Elements; 5 – Bicycle Integrated Design; 6 – Pedestrian Integrated Design; 7 – Roadside Design; 8 – Access; 9 – Intersections; and 10 – Interchanges.

The Guide can be purchased in its entirety (package of chapters 1-10) or by separate chapters, and is available in either hard copy or e-book formats.

Full-time students providing proof of eligibility can buy the package for \$225 or each separate chapter for \$39 (e-book versions only). Email publications@tac-atc.ca your academic program name, course title, name of professor or dean, and copy of your student ID, for instructions. Call 613-736-1350 with questions.

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Media type: eBook, Print
2017

Member Price: \$ 65.00, Regular Price:
\$ 82.00



Geometric Design Guide for Canadian Roads: Chapter 4 - Cross Section Elements

PTM-GEODES4-E

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Chapter 4 – Cross Section Elements provides guidance on the design procedures and domains dealing with cross section design and related elements including the use of special purpose lanes, drainage features, grading, snow removal, bridge considerations, and shared use of the right-of-way by public and private utilities.

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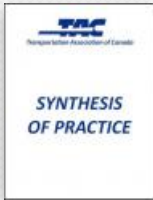
Media type: eBook, Print
2017

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Syntheses of Best Practices - Road Salt Management (2013): 4.0 – Drainage

BP-RSM4-E

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<https://www.tac-atc.ca/sites/tac-atc.ca/files/site/doc/resources/roadsalt-4.pdf>

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Guidelines for Development and Management of Transportation Infrastructure in Permafrost Regions

PTM-PERMAFROST

These guidelines provide a compendium of best practices for the development, planning, design, construction management, maintenance and rehabilitation of transportation facilities in regions of northern Canada with permafrost terrain.

Divided into nine chapters, the publication focuses on the context and challenges of Northern Canada, route investigation in permafrost regions, embankment and pavement materials, engineering considerations, and drainage and erosion control. It also includes a glossary of permafrost terms.

The guidelines are intended as a general reference for senior management to gain an understanding of the challenges of developing and managing transportation infrastructure in permafrost regions. This practical, easy-to-read guide will help those directly involved in any aspect of the life cycle of infrastructure in northern Canada, as well as project managers, planning / design engineers and maintenance personnel to conduct their day-to-day work.

Disponible en français : *Lignes directrices de développement et de gestion des infrastructures de transport dans les régions de pergélisol (2010)*

Media type: eBook, Print
2010

Member Price: \$ 249.00, Regular Price:
\$ 359.00



Drainage manual - Volume 1 (1982) & Volume 2 (1987)

PTM-DRAIN-EBK

Volume 1 - Hydrology and open channels
Volume 2 - Culverts and storm sewers

Reflects Canadian drainage practice, as of date of publication, with particular reference to transportation facilities. The solution of typical problems is well illustrated through numerous worked examples.

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1982

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