TOMSC VOLUNTEER PROJECTS

November 2017

Project #	Name	Chair	Description / Status
196	Sign Letter Size	A. Smiley	The project scope is to investigate the current standards used for sign letter size for text signs. The working group is investigating the impact of requiring that regulatory and warning signs meet 30/30 standards. Project is closed.
213	Decision Sight Distance/ Longitudinal Sign Location	K. Baass	Project is closed.
214	Guidelines for STOP Signs at Railway Crossings	P. Rasoldier	Status: Dropped until RTD-10 At-Grade Crossing Regulations are approved.
217	All Way STOP Control Tab	D. McCusker	Status: Completed. The tab sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
223	Do Not Stop on Track Sign	L. Belluz	Progress report was provided in October 2007. A survey was conducted including participants from various age categories. The preliminary results were presented to TOMSC. An additional survey was conducted to address the issues related to higher age driver groups. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
227	Guidance on Use of Chevrons	S. Trépanier	The project is to investigate the feasibility of adopting guidelines for the use and the installation of chevrons. Status: Completed. See *Guidelines on the Use and Installation of Chevron Alignment* in TAC bookstore.
229	Public Information for New Traffic Control Devices or Measures	L. Belluz	The project scope is to determine how to disseminate the information about newly introduced traffic signs and rules of the road. Status: Completed. The recommendations were approved by TOMSC.

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234	Loading Zone Sign	D. Beaulieu	Status: Complete. The sign will be included in the *Manual of Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*
238	Design of Max Speed Ahead Sign (WB-9)	R. Chow	Status: Final report presented in April 2007. Project is closed.
241	Timing of RR-X-ing Sign (WB-6)	P. Rasoldier	Status: Dropped until RTD-10 At-Grade Crossing Regulations are approved.
242	Advance Yielding at Crosswalks	T. McLeod	Advance yielding at crosswalks is discussed in the *Pedestrian Crossing Control Guide (2012)*. Status: Project is closed.
243	Redesign of Graphics of WC-8, WC-12, WC-17	G. Cuthbertson	Status: In progress. The graphics have been developed, results pending comprehension testing.
246	Modern Roundabout Operations, Signs & Pavement Markings	M. Skene	The project objective is to prepare draft markings and signage for single lane roundabouts. Status: Completed. Final report is available through TAC library. The recommendations for roundabout signs and pavement markings will be provided in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*
248	Trans Canada Trail Sign (et. al.)	T. McLeod	The project objective is to develop a uniform traffic control device for Trans Canada Trail signage on road right-of-way sections of the trail. These signs are to be used when the Trans Canada Trail is routed along road rights-of-way, for trail crossings and to locate nearby trailheads. The results of the survey conducted among Canadian jurisdictions were presented to TOMSC. Status: Project is closed. Final report was presented in April 2007. TOMSC supported the use of Trans-Canada Trail sign. The sign will not be included in the MUTCDC.
251	Rules of the Road for Roundabouts	L. Belluz	Status: Completed. The updates to the TAC Canadian Model Rules of the Road (1996) will follow. See project #309.

Project #	Name	Chair	Description / Status
252	Computer Modeling System for Signal Safety Warrants	C. Blackwood	This project was initiated to evaluate a computer model to predict the effectiveness of geometric and traffic control improvements to intersections. The model was to be evaluated on several factors including practicality, ease of use and the accuracy of predictions. The major goals of the project are to identify any problems associated with the model and determine if the model could be incorporated into new signal warrant procedure. Status: Project is closed.
253	Optional Use of Pedestrian Countdown Timers	C. Lee	The project was conducted to investigate the feasibility of adopting guidelines for the "Optional Use of Pedestrian Countdown Timers" into the MUTCDC. The objectives were to identify conditions under which PSC are effective and recommend the preferred PSC configuration, layout and operation guidelines. Status: Completed. The background report is available through the TAC library. The recommendations will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
254	Vertical Visibility Constraint Sign	E. Switensky	The project scope is to review signing practices in Canadian and U.S. jurisdictions and to develop a sign for inclusion in the MUTCDC. A questionnaire was sent out and two signs were recommended for testing. Status : Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
255	Transit Priority Signal Sign	R. Stewart	The project scope is to consider the need for and design of a sign that would accompany a transit priority signal. It will also include design of signs that limit movements allowed under the Transit Signal Display. Status: In progress.
257	Engine Brake Sign	R. King	The project objective is to develop a sign, warning of engine brake restrictions and determine under what circumstances such sign should be used. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.

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260	Identification of Left Turn Signal Sign	D. McCusker	The project objective is to test whether or not a sign is needed to accompany the left turn signal head(s) and, if so what that sign should be. Status : Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
262	Appropriate Use of Florescent Pink Colour	R. Chow	The project scope was to establish the meaning and appropriate use of the fluorescent pink colour in conveying traffic control information and its inclusion in the MUTCDC. The objective is to determine if the florescent pink would be an appropriate colour for incident management and/or other temporary signing applications. Status: See MUTCDC.
264	Emergency Detour Route Sign	R. Chow	The project objective was to develop a standard trailblazer Emergency Detour Route sign along with the criteria for sign application for inclusion in the MUTCDC. Status: Completed. See MUTCDC.
266	Cross Other Side Sign	D. McCusker	The project objective is to develop a sign that legally “overrides” universal cross walk presence in specific locations. The sign should also strive to give positive guidance to pedestrians on where they should cross. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
267	Transit Priority Signal Guidelines	J.F. Robert	The project objective is to comment the Strategies for Implementing Transit Priority Practice document, published by the National Guide to Sustainable Municipal Infrastrucutre (InfraGuide). The document contains the best examples of how to implement transit priority on urban roads. Status: Completed. See *Guidelines for the Planning and Implementation of Transit Priority Measures and Guidelines for Application and Display of Transit Signals* in TAC Bookstore.
268	Pavement Markings for Multiple Left Turn Lanes	D. Banks	The project objective is to review pavement marking practices in Canadian and U.S. jurisdictions and to develop standards for inclusion in the MUTCDC. After second surrvey is completed the comprehension testing will follow. Status: Completed. The recommendations will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*

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270	Load Restrictions Sign	R. Chow	The project scope is to develop a standard load restrictions sign along with the criteria for its application and inclusion in the MUTCDC. Due to nature of the trucking industry in North America, consideration will also be given to the load restriction signs and regulations in the United States to encourage uniformity. Status: Completed. See MUTCDC.
271	Signing for Non-Hospital Emergency Health Facilities	R. Chow	The project scope is to develop sign arrangements for non-hospital emergency health service facilities that operate during variable hours (less than 24 hours per day and continuous 24 hours a day, 7 days per week) and its inclusion in the MUTCDC. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
272	Integration of Road Safety into MUTCDC	L. Belluz/ G. Forbes	The scope of this project is to prepare an official companion document to the MUTCDC that deals with the safety impacts of traffic control devices. The project team is preparing a summary of scenarios/issues that could be included in the document. Status: Project is merged with the funded project in progress MUTCDC Update Scoping Study
273	Canadian Capacity Guide	M. Skene	On going discussion regarding an approach to formalize a relationship between CITE and TOMSC to provide continued support and promotion of the Canadian Capacity Guide. Status: Task Force was formed between TOMSC and CITE to give continued technical support to the Canadian Capacity Guide. The Task Force reports to TOMSC.
274	Enhancing the Conspicuity of Traffic Signal Displays	J. Keefe	Project objective is to define parameters and design of signals for improved conspicuity and therefore reduce accidents. Further research is recommended to determine best practices. Status: Completed. See *Synthesis of Current Practices for Enhancing Traffic Signal Conspicuity* in TAC Bookstore.

Project #	Name	Chair	Description / Status
276	Review of Transport Canada Report on Passing Sight Distances	A. Aitken	Status: Work is in progress.
278	Recreational Vehicle (RV) Sign	J.F. Robert	The project objectives are: to investigate the need to develop a RV- friendly symbol on highways in Canada, to determine under what circumstances such signage should be used, to establish the meaning and appropriate use of the RV- friendly symbol and to discuss its inclusion in the MUTCDC. Status: Completed. A letter will be sent to the Canadian Recreational Vehicle Association indicating TOMSC's position on RV sign use.
279	Position Paper on Volatile Organic Compounds (VOC)	C. Blackwood	Environment Canada is currently developing regulations to limit the content of volatile organic compunds (VOC) in Architectural and Industrial maintenance (AIM) coatings under the Canadian Environmental Protection Act (1999). The project goal was to develop a submission for Environment Canada that represented the position of TOMSC and TAC with respect to this legislation, given the potential impact on transportation industry and application of pavement markings. Status: Completed.
280	Alternative Merge Warning Sign at Signalized Intersection	R. Sanderson	The project objective was to determine the need for a standard Merge Alternately/Alternative Merge sign for inclusion in the MUTCDC along with the criteria for sign application. Status: Project is closed.
284	Clarification of MUTCDC Wording with Respect to 85th Percentile Speed	B. McKinney	The project objective is to provide a rationale for proposed clarification of MUTCDC wording. Status: Completed. The clarification will be provided in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*

Project #	Name	Chair	Description / Status
285	Evaluation of the Benefits and Impacts of Clearview Lettering	R. Chow	The project objective is to review the existing research and and literature on the ClearviewHwy font and investigate the benefits and impacts (i.e., cost) of amending the MUTCDC to include this font. The experience of jurisdictions which have used the ClearviewHwy font will be examined. Status: Completed. See MUTCDC.
289	Standardizating Supplementary Advance Warning Devices	R. Chow	The project objective is to provide recommendations for the possible standardization of a sign for each relevant application using the principles of signing. The recommendations will be based on a review of NCHRP Synthesis 186 - Suplemental Advance Warning Devices. Subsequently, the projects will be initiated where possible to include those standardized signs in the MUTCDC along with the guideline for their use. Status: Completed. New projects were initiated to standardize a number of signs (see projects 296-304).
290	End of School and Playground Zone Signs	H. Schlegl	The project objective is to develop standard “End School Zone” and “End Playground Zone” signs for inclusion in the MUTCDC along with the criteria for sign application. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
291	Review of Sign Sheeting Considering Aging Drivers	A. Beal / J. Keefe	The project objective is to re-evaluate the minimum sheeting requirements for the different sign classifications taking into consideration the need of aging drivers as well as the high performance prismatic sign sheeting products. Some recommendations will be provided on updates to MUTCDC in regards to minimum sheeting requirements for different sign classifications or if necessary, identify some additional testing. Status: Completed. See *Guidelines for Selecting Sign Sheeting to Meet Minimum Retroreflectivity Levels* in TAC Bookstore.

Project #	Name	Chair	Description / Status
292	Update to Trans-Canada Highway Route Marker Sign	R. Chow	The project objective is to modify the existing Trans-Canada Route Marker design to make it generic and allow highway numbers other than 1 to be used on the route marker sign. Status: Completed. The modified Trans-Canada Route Marker will be included in the Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.
295	Passing/Climbing Lane Length Sign	R. Chow	The project objective is to review the need and placement of a passing/climbing lane length sign. A sign will be developed and figures A3-3 and A3-4 (MUTCDC) will be amended if deemed necessary. Status : Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
296	Water Flooding on Roadway Sign	M. Coté	Status: Complete. The sign will be included in the *Manual of Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*
297	Strong Wind Warning Sign	T. McLeod	The project objective is to develop a clear, concise and easily recognizable symbol that accurately depicts the condition the sign is designed to represent. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
299	Animal Warning Sign	E. Miska	Project is closed.
300	Low Clearance Warning Sign	M. Coté	Status: Complete. The sign will be included in the *Manual of Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*

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301	Tipping Truck Sign	T. McLeod	The project objective is to develop a clear, concise and easily recognizable symbol that accurately depicts the condition the sign is designed to represent. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
302	Permanent Grooved Pavement Warning Sign	G. Cuthbertson	The project objective is to develop a clear, concise and easily recognizable symbol that accurately depicts the condition the sign is designed to represent. Status: In progress.
303	Multi-Use Trail Crossing Sign	D. Beaulieu	The project objective is to develop a clear, concise and easily recognizable symbol that accurately depicts the condition the sign is designed to represent. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
304	Logging Trucks Warning Sign	E. Miska	Project is closed.
306	Traffic Signal Spacing Requirements	D. Green	The project objective is to review both the GDG and MUTCDC and undertake the follow-up discussions with the Geometric Design Standing Committee in regard to intersection spacing considerations and traffic control signals installation references in these documents. Status: In progress.
309	Update to the Canadian Model *Rules of the Road*	M. Skene	The project objective is to review the TAC *Canadian Model Rules of the Road* (1996) and identify the elements required to update the document accordingly. Status: Completed. A pool funded project was initiated to update the *Canadian Model Rules of the Road*.
311	Stop Sign Usage in Conjunction with Railway Crossing Sign	R. Chow	The project objective is to develop a comprehensive guideline for possible use of the stop sign at railway crossings, where a stop condition is necessary. Status: Completed. The guide recommendations will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.

Project #	Name	Chair	Description / Status
314	Review of Signing Colours for Off-Road Facilities	P. Hunt	The project objective is to review and determine if white on blue colours are preferred choice over white on brown colours for off-road facility signing. Status: Completed. It has been recommended that the background colour for off-road facility signs change from brown to blue. The recommendations will be provided in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
316	Review of Centreline Pavement Marking	R. Chow	The project objective is to review centreline pavement marking standards in Canada, specifically for flared/bypass intersection/junctions and acceleration lane intersection/junctions. Status: Completed.
317	Update to TAC Guide for the *Design of Roadway Lighting*	R. Seera	The project objective is to review the current *Guide for the Design of Roadway Lighting* in relation to the current research and IESNA documents and identify areas where updates to reflect new technology and processes are required. Status: In progress.
318	Review of Walking Pedestrian Signal Indication	D. Beaulieu R. Chow	The project objective is to review the appropriateness of the current walking pedestrian and flashing hand signal indications in the MUTCDC. Status: Completed. The updates to the *Manual of Uniform Traffic Control Devices for Canada* will follow.
319	Electric Vehicle Charging Stations Sign	D. Beaulieu	The project objective is to develop a national traffic sign for electric vehicle charging stations. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
320	Synthesis of Parking Signs for Canada	T. McLeod	The project objective is to review and prepare a synthesis of parking signs for Canada. Status: Completed. The recommendations will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*

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321	Best Practice Guide for Street Name Signing	G. O'Brien	The project objective is to prepare a best practice guide for street name signing based on the *Guide de bonnes practiques – Panneaux de signalisation odonymique* (AQTR, 2010). Status: In progress.
322	Use of LED-Enhanced Traffic Signals	D. Beaulieu	The project objective is to review the practice of adding LED-enhanced strobe lights to signals. Status: Completed. The recommendations will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
323	Railway Crossing Ahead Sign Application	R. Chow	The project objective is to review the application of Railway Crossing Ahead sign. Status: Completed. The recommendations will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition.*
325	Second Train Event Warning Sign	D. Bowron	The project objective is to develop a Second Train Event Warning sign. Status: Completed. The sign will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*.
326	Warrants for Traffic Signals in Close Proximity to Railway Grade Crossing	A. Guebert	The project objective is to develop a stand-alone warrant for traffic signals at intersections in close proximity to railway grade crossings. Status: In progress.
327	Rectangular Rapid Flashing Beacon	G. Elenko	Status: Completed. The Device will be included in the *Manual of Uniform Traffic Control Devices for Canada - Fifth Edition*
328	Colour for Flagger Ahead Sign	G. Cuthbertson	The project objective is to identify the most appropriate colour for use on Flagger Ahead Signs and on Flagger paddles. Status: In progress.

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330	Standardization of Agricultural Vehicle Warning Signs	R. Hird	The project objective is to develop Agricultural Warning signs for Canada. Status: In progress.
331	Update to TAC Handbook of Recommended Information *Sign Symbols for Canada*	R. Chow	The project objective is to review and update the current TAC *Handbook of Recommended Information Sign Symbols Canada (2008)*. Status: In progress.
334	Electrical Vehicle Charging Station Tab Sign	D. Beaulieu	The project objective is to develop a tab sign to accompany the Electric Vehicle Charging Station Sign. Status: Completed. The updates to the *Manual of Uniform Traffic Control Devices for Canada* will follow.
335	Electrical Vehicle Charging While Parking Sign Package	D. Beaulieu	The project objective is to investigate and crete a package of new signs to regulate parking at electric vehicle charging stations. Status: In progress.
336	Red Arrow Signal Indication	W. Chou	The project objective is to investigate and demonstrate the need for the red arrow display at existing signalized intersections. Status: In progress.
338	Fluorescent Yellow-Green Pedestrian Crosswalk Signs	T. Koutroulakis	The project objective is to assess the current use and identified effectiveness of flourescent yellow-green pedestrian crosswalk signs in providing enhanced conspicuity of uncontrolled marked pedestrian crosswalks. Pending study results, determine whether it should be recommended for inclusion in the MUTCDC. Status: In progress.
340	Trans-Canada Yellowhead Highway Route Marker	R. Chow	The project objective is to create an iconic image for the highway route, which not only reflects the Yellowhead routes historical significance but also emphasizes its role as a community-connector in central Western Canada. Status: Project is closed.

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341	Automated and Connected Vehicles White Paper	D. Beaulieu / G. Rempell	The project scope is to prepare a white paper that provides background information and describes potential benefits as well as current activities with respect to automated and connected vehicles.
342	Traffic Signal Modelling Methodology	D. Havercroft	The project objective is to develop a training program on traffic signal modelling methodology. Status: In progress.
343	Flashing Sequence for RRFB	R. Chow	The project objective is to provide recommendations for the uniform and consistent usage of RRFB flash patterns across Canada. Status: Completed. The updates to the *Manual of Uniform Traffic Control Devices for Canada* will follow.
344	Retroflective Sign Post Enhancement	G. Iwaskow	The project objective is to develop guidelines for the use of retroreflective sign post enhancement. Status: In progress.
345	U-Turn Signal indication	G. Iwaskow	The project objective is to develop a protected U-Turn signal indication. Status: In progress.
346	Modernization of the Tent Camping Sign	R. Hird	The project objective is to modernize symbols for the Tent Camping Sign and related symbols. Status: Completed. Pending review by the Chief Engineers' Council in fall before it is included in the MUTCDC.
347	Update of the ITS Architecture	C. Philp	Investigate the current usage and need to update the Architecture for Canada and determine the areas requiring updates. Status: In progress.

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348	“Anti-Whistling” Sign for Railway Crossings with a Whistling Cessation	H. Schlegl	The project objective is to develop sign with the message in a symbol format and establish guidelines for sign placement within the existing railway warning signs system. Status: In progress.
349	Enhanced RB-11S2 Supplementary Tab Sign	D. Beaulieu	The project objective is to develop a proper design for enhancement of time-defined regulatory signs. Status: In progress.
350	Electric Vehicles Permitted in Reserved Lanes	D. Beaulieu	The project objective is to develop signage for allowing electric vehicles in reserved lanes. Status: In progress.
351	Decorative Crosswalk Pavement Markings	D. Nash	The project objective is to provide guidance for uniform and consistent practices regarding crosswalk pavement markings in response to increasing number of requests for non-standard colours and graphic designs. Status: In progress.