ITEM 7 - Information June 17, 2020

Safety Recommendations

Background:

The board will be briefed on the recommendations for reducing fatalities and serious injuries in the region based on the findings of the regional safety study and outreach.



MEMORANDUM

TO: Transportation Planning Board

FROM: Jon Schermann, TPB Systems Performance Analysis Manager

SUBJECT: Safety Recommendations

DATE: June 11, 2020

This document outlines the staff recommendations for reducing roadway fatalities and serious injuries in the National Capital Region. Also included in this document is an update to the schedule provided in last month's memo.

DISCUSSION

Over the last two months, the Transportation Planning Board (TPB) has received a briefing from the Washington Regional Alcohol Program and two briefings on the findings of the regional roadway safety study led by Cambridge Systematics. The study has uncovered a complex set of factors that are contributing to the unacceptably high numbers of fatal and serious injury crashes in the region. It is also clear from the study findings that the types of actions that must be implemented to reduce the number of deaths on our roadways are numerous and fall under the auspices of many different agencies and levels of government.

TPB ADOPTS A RESOLUTION

The recommendation is for the TPB to adopt a multipart resolution at the July meeting (later if additional review is needed). The proposed resolution is in four parts and calls on member jurisdictions to take a variety of actions. It also establishes a regional safety program to provide ongoing support to local and regional efforts to reduce fatalities and serious injuries on our roadways. The proposed resolution consists of the following components:

- Part 1: The TPB urges its members to reaffirm road user safety as a top priority and prioritize
 the implementation of projects, programs, and policies, that strive to ensure equitable
 impacts and will increase seat belt use, reduce speeding, reduce impaired driving, and
 reduce distracted driving.
- Part 2: The TPB urges its members to commit to working individually and/or collectively to implement all of the applicable safety measures to address the types of fatal and serious injury crashes disproportionately observed in this region and strive to ensure their equitable impacts. A concise list of these safety measures is provided as part of the mailout.
- Part 3: The TPB will establish a Regional Roadway Safety Program which, through enhanced safety planning capabilities, can assist its member jurisdictions and the region implement projects, programs or policies to equitably improve safety outcomes for all roadway users.
- Part 4: The TPB Calls upon its member jurisdictions and agencies to adopt equitable Vision Zero policies and develop local roadway safety plans and the TPB calls on its member states

to adopt primary seat belt legislation, and increase the use of ignition interlock devices for impaired driving offenders.

UPDATED SCHEDULE OF SAFETY BRIEFINGS TO THE TECHNICAL COMMITTEE AND THE TRANSPORTATION PLANNING BOARD

Table 1 shows the current schedule for when the safety study results as well as other safety-related agenda items (such as the next round of annual regional highway safety targets) will be presented to the TPB and the Technical Committee.

Table 1: CY 2020 Safety Agenda Items

Month	Technical Committee	Transportation Planning Board
June 2020	Draft Final Safety Recommendations	Safety Recommendations
July 2020	Safety Resolution Update	Adopt Safety Resolution
September 2020	Methodology for PBPP Highway Safety Targets State DOT Safety Target Updates	
October 2020	State DOT Safety Target Updates Staff Proposed Regional Safety Targets	
November 2020	Staff Recommended Regional Safety Targets	Staff Recommended Regional Safety Targets
December 2020		Adopt Regional Safety Targets

It is anticipated that the schedule outlined above will be updated based on feedback from TPB members.

SAFETY RECOMMENDATIONS

Jon Schermann
TPB Systems Performance Analysis Manager

Transportation Planning Board June 17, 2020



Recap to Date

- TPB declares the current roadway safety outcomes in the region are unacceptable
- TPB collaborates with state transportation agencies to understand what they are doing to address roadway safety in the region
- TPB conducts a high-level assessment of the region's safety data
- Assessment reveals several underlying behavioral factors contributing to the unacceptable outcomes
 - Not wearing seat belts, speeding, impaired driving, and distracted driving
- Assessment also reveals that three types of crashes account for a disproportionate share of fatalities and serious injuries
 - Pedestrians, intersections, major arterials
- TPB examining actions to take to significantly improve safety of the region's roadway users



Proposed Recommendations



Proposed TPB Resolution - Part 1

Action	Description
Urges its	Reaffirm road user safety as a top priority and prioritize the
members to:	implementation of projects, programs, and policies, that strive to ensure equitable impacts and will:
	Increase Seat Belt Use
	Reduce Speeding
	Reduce Impaired Driving
	Reduce Distracted Driving
General (systemic	c) recommendations that address behavior and affect all types of crashes



Proposed TPB Resolution - Part 2

Action	Description	
Urges its members to:	Commit to working individually and/or collectively to implement all of the applicable safety measures (attached) to address the types of fatal and serious injury crashes disproportionately observed in this region and strive to ensure their equitable impacts	
Specific set of recommendations that address the region's predominant types of fatal and		
serious injury crashes		



Proposed TPB Resolution – Part 3

Action Establish a Regional Roadway Safety Program • Which, through enhanced safety planning capabilities, can assist its member jurisdictions and the region implement projects, programs or policies to equitably improve safety outcomes for all roadway users. • Modeled loosely on its Transportation Land-use Connection program with assistance from the three DOTs • ~\$250k annual budget Recommendation to establish a regional safety program to help improve road user safety



Proposed TPB Resolution - Part 4

Action

Calls upon its member jurisdictions and agencies to:

- adopt equitable Vision Zero policies, and
- develop local roadway safety plans and ensure their equitable impacts on all roadway users

Calls upon its member states* to:

- adopt primary seat belt legislation, and
- increase the use of ignition interlock devices for impaired driving offenders

* Note: Currently several jurisdictions have Vision Zero policies and/or roadway safety plans; DC and MD have primary seat belt laws; all member states have ignition interlock device requirements but apply them to varying degrees



Illustrative Projects – TPB Regional Safety Program

TPB Regional Safety Program – Types of Projects

- Assist jurisdictions with crash data analysis
- Provide consultant services to facilitate local road safety audits
- Support additional "Street Smart-like" activities with street teams and Virtual Reality car for member jurisdictions
- Conduct analyses of equity impacts of roadway safety measures
- Support or sponsor a regional "safest driver" contest (along the lines of what San Antonio did in 2018)
- Support jurisdictional level roadway safety plans
- Facilitate/conduct regional safety peer exchanges and/or training programs
- Facilitate educational outreach on safety



Next Steps

- Finalize proposed resolution based on Transportation Planning Board feedback
- Request adoption of resolution at the July TPB meeting



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DRAFT RECOMMENDATIONS TO IMPROVE TRAFFIC SAFETY IN THE WASHINGTON, DC METROPOLITAN AREA

INTRODUCTION

For the past year, the National Capital Region Transportation Planning Board (TPB) Technical Committee has conducted a Regional Safety Study to:

- Understand the factors contributing to fatal and serious injury crashes in the National Capital Region (NCR);
- Determine where crashes on the roadway transportation network are over-represented;
- Identify and recommend proven effective solutions (policy, programmatic, project);
- Provide the TPB and member jurisdictions specific suggestions to improve safety; and
- Inform future Transportation Safety Subcommittee and Street Smart efforts.

Following are recommended actions that can, if implemented, reduce the number of people killed or seriously injured throughout the region in four areas that were identified through data analysis as the area's serious traffic safety problems including pedestrian, intersection, major arterial, and young driver crashes.

LEGEND



		DESIGN AND OPERATE SAFER INFRASTRUCTURE
À		Install pedestrian hybrid beacon and advanced yield signs, stop markings and signs, high visibility crosswalk markings.
(X)		Implement leading pedestrian interval (LPI) at intersections with high turning vehicle volumes.
(X)		Conduct pedestrian road safety audits in areas with a higher than average crashes.
(X)		Reduce motor vehicle speeds by using data driven, effective, and equitable enforcement methods that utilize available technology, such as automated speed cameras, and other traffic calming strategies such as narrower lanes, adding roundabouts, and implementing road diets.
(X)		Evaluate mid-block crossings with higher rates of fatalities and serious injuries (especially those over 10,000 Annual Average Daily Traffic (AADT)) to determine the need for more improvements such as medians, refuge islands, pedestrian hybrid beacon, and rectangular rapid flashing beacons.
(X)		Install pedestrian countdown signals.
(X)		Improve geometry of pedestrian and bicycle facilities at signalized intersections with high frequencies of pedestrian and/or bicycle crashes and on routes serving schools or other generators of pedestrian and bicycle traffic.
	المالة المالة	Install lighting at intersection and mid-block crossings to ensure motorists can see pedestrians crossing the road at locations with high pedestrian crashes.
		Evaluate double-right turns at intersections to determine if removal of one right-turn lane is warranted.
	715	Implement audible pedestrian crossing signals where appropriate.
(X)		Create pedestrian safety zone programs in areas with high occurrences of pedestrian crashes.
		Replace intersections that have high numbers of fatalities and serious injuries with roundabouts, a circular intersection configuration with channelized approaches and a center island that results in lower speeds and fewer conflict points, wherever feasible.
		Utilize multiphase signal operation at signalized intersections with a high frequency of angle crashes involving left turning and opposing through vehicles as well as rear-end and sideswipe crashes.
115		Increase change intervals (when the traffic lights change) at signalized intersections at locations where too-short signal change intervals cause rear-end crashes and crashes between vehicles continuing and entering the intersection between phases.
		Improve left-turn channelization (providing definite paths for vehicles to follow) at signalized intersections where left-turn crashes are an issue.
715		Improve right-turn channelization at signalized intersections with a high number of rear-end collisions.
		Install LED heads and reflective backplates (reflective borders around traffic lights that make them more visible) in locations with high numbers of signalized intersection fatal and serious injury crashes.





			DESIGN AND OPERATE SAFER INFRASTRUCTURE
المالة ال			Restrict access to properties using driveway closures or turn restrictions that are near signalized intersections with high crash frequencies related to driveways.
			Restrict or eliminate turning maneuvers (including right turns on red) or employ signal coordination at signalized intersections with a high frequency of crashes related to turning maneuvers.
			Improve signage at unsignalized intersections by ensuring foliage does not block the sign, the lettering is still reflective, and the sign is located where it can be seen by motorists.
			Add reflective material to sign posts at unsignalized intersections.
			Install LED-enhanced stop signs at unsignalized intersections where there are a higher than average number of fatal and serious injury crashes.
	86		Implement high friction treatment at intersections that have a high number of rear-end crashes.
	(X)		Implement left-turn traffic calming (left turn hardening) to reduce left turn speeds and provide for safe turning behavior at intersections that show a pattern of pedestrian-related left turn crashes and intersection geometry that facilitates high speeds.
			Implement roadside design improvements such as clear zones, slope flattening, and adding or widening shoulders to improve ability for drivers to safely recover if they leave the travel lane.
			Implement enhanced delineation treatments to alert drivers in advance of the curve including pavement markings; post-mounted delineation; larger signs and signs with enhanced retroreflectivity; and dynamic advance curve warning signs and sequential curve signs.
	%		Implement improvements including installation of cable barriers, guardrails, and concrete barriers to reduce the severity of roadway departure crashes.
			Identify areas in the region that could benefit from traffic calming including road diets that reduce the number of traffic lanes and planting trees that encourage reduced speeds.
			Install high friction surface treatment (HFST) in locations where the available pavement friction is not adequate to support operating speeds at a sharp curve, inadequate cross-slope design, wet conditions, polished roadway surfaces, or driving speeds in excess of the curve advisory speed.
			Install longitudinal rumble strips and stripes in locations where run-off-the-road crashes are high.
			Install the Safety Edge to eliminate the vertical drop-off at the pavement edge, allowing drifting vehicles to return to the pavement safely.
	TI L	V	Develop a regional Safety Checklist or template as a tool for local jurisdictions to use during planning and project identification efforts





	ENCOURAGE SAFER BEHAVIOR
	Include pedestrian safety and the risks of impairment for pedestrians and drivers in alcohol related media campaigns.
	Develop and implement pedestrian safety programs for elementary school students.
	Continue the regional Street Smart Campaign and strengthen by aiding member jurisdictions to engage street teams and other elements of the campaign at more locations throughout the year.
	Develop and implement school focused pedestrian strategies building on the work done in the Safe Routes to Schools program.
	Conduct education and fair, equitable, data-driven compliance campaigns focused on distracted driving (D.R.I.V.E, Texting and Driving Initiative).
	Support legislative classification of distracted driving as a "moving violation" and decide if changes are needed.
	Provide public information, education, and training for older drivers on risks associated with signalized intersections such as red-light running, speeding, not yielding to pedestrians, and difficulty judging speed and distance of approaching vehicles when making left turns.
65+	Conduct a study to determine the safety needs of older adults in the region and coordinate internally and externally to provide information on transportation alternatives other than driving.
	Increase automated enforcement at intersections including speed on green lights, stop-light camera, blocking the box, etc.
(A)	Implement safety awareness campaigns specifically for low seat belt use groups.
	Support state primary seat belt legislation.
1	Evaluate incident response times to determine if additional Traffic Incident Management (TIMS) training and/or other resources are needed.
	Develop incident response plans for interstates and arterials throughout the region.
25	Implement strategic and well-publicized compliance programs aimed at young drivers.
PA (7A)	Conduct well publicized, multi-component compliance campaigns throughout the region to address underage drinking, including licensing actions for underage alcohol violations, and vendor compliance checks to reduce underage drinking.
25 PA	Implement and enhance server training programs to enable servers to identify underage customers and prevent overserving.
	Increase use of ignition interlocks for impaired driving offenders.





ENCOURAGE SAFER BEHAVIOR



Provide and encourage use of ride sharing programs (like SoberRide) to reduce impaired driving.





Conduct well-publicized compliance programs aimed at impaired drivers.



Encourage more late-night transit service to provide options other than driving while impaired.





