MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities Design and Engineering Services - Central Region

TO: Distribution

DATE: April 16, 2019

THRU: Wolfgang Junge, P.E.

TELEPHONE NO: 907-269-0639

Preconstruction Engineer

Central Region
VIA ROUTE SUP

FROM: Jim Amundsen, P.E., Chief

Highway Design

SUBJECT: Set aside RSAP for Calibration

Use ROADSIDE in interim

Central Region is setting aside the RSAP cost-effective analysis program as the primary guardrail analysis tool until it can be acceptably calibrated to resolve common roadside slope problems. The Highway Preconstruction Manual does not mandate RSAP usage. Other analysis can be used with engineering judgment.

We are returning to DOTPF's previous ROADSIDE version 1.2 as the primary roadside analysis program. This program is demonstrated to meet AASHTO's method for more than a decade prior to RSAP issuance. It provides acceptable evaluation of roadsides versus guardrail for high volume, high speed, high risk roadsides. ROADSIDE also requires user input of severity indices using engineering judgment.

RSAP may still be used to test concepts, but ROADSIDE must be run in Central Region as the first tool. Use engineering judgment in making final guardrail selections and document design choices.

For design work the following documents will be made available to all Central Region designers:

ROADSIDE Version 1.2 1998 ROADSIDE User's Manual 1996 AASHTO Roadside Design Guide Severity Index Tables NCHRP 202 Severity Indices for Roadside Safety Features

Distribution:

Joel St. Aubin, P.E., Chief, CR Construction Luke Bowland, P.E., Chief, Statewide Aviation Design Eric Miyashiro, P.E., Chief, CR Preliminary Design & Environmental Section Todd Vanhove, Chief, CR Planning and Administrative Services Charles Wagner, P.E., Chief, CR Maintenance and Operations Scott Thomas, P.E., Regional Traffic & Safety Engineer

DE	EM	VOV	ROI	ITE	CI	ID

19.7275 AASHTO BOADSIDE Guardail
Analysis Reinstatement

Route	Initial	Date	Name	Title	Comments	reinstatemen
	Pa	4/16	Jim Amundsen, P.E.	Highway Design Chief	Becommend	Appaval
			Luke Bowland, P.E.	Aviation Design Chief		
<u> </u>			Eric Miyashiro, P.E.	PD&E Chief		
U.			John Linell, P.E.	ROW Chief		
			Melanie Arnolds, P.E.	Utilities Engineer		
A .	4/16	set	Scott Thomas, P.E.	Regional Traffic Engineer		
		<u>- 600</u>	Mike Yerkes, P.E.	Acting Materials Chief		
			Greg Williams	Project Control Chief		
			Joel St. Aubin, P.E.	Construction Chief		
			Bob Anderson, P.E.	M&O Chief		
			Todd Vanhove	Planning Chief		
X.	8	411	Wolfgang Junge, P.E.	Preconstruction Engineer		
		<u>/</u>	Diana Rotkis	Deputy Director		
			Jill Reese	Special Assistant/Media Liaison		
			Shannon McCarthy	Public Information Officer		
			Dave Kemp P F	Regional Director		