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Traffic Assessment

**For Proposed
 Infinity Credit Union – 29 Baxter Boulevard
 Portland, Maine**

INTRODUCTION

Infinity Credit Union is proposing to construct a 2,834 square foot branch office at 29 Baxter Boulevard in the City of Portland. The proposed site is presently occupied by a 6,600 square foot warehouse building that will be razed with construction of the proposed credit union project. The proposed credit union site design includes two drive-thru lanes, with full teller service provided from the interior lane and ATM service exclusively from the outside lane. Access to the site is provided with construction of a one-way “loop” driveway around the perimeter of the proposed building.

This document determines peak hour trip generation of the proposed project during both peak commuter time periods and examines current roadway safety trends in the general vicinity of the proposed project.

SITE TRAFFIC

Site Trip Generation: Trip generation estimates were prepared for both the existing and proposed site uses based upon trip tables presented in the seventh and eighth editions of the Institute of Transportation Engineers (ITE) “TRIP GENERATION” handbook. Peak hour trip generation estimates were developed for both the existing and proposed site uses based upon the following procedures:

Existing Site Trip Generation

- 6,600 square foot Warehouse

Peak hour trip generation was estimated based upon the following land-use category presented in the seventh edition of the ITE Handbook:

Land-Use Code #150 – Warehousing

Street Peak Hour – AM Peak = 0.45 trips/1,000sf building area

Street Peak Hour – PM Peak = 0.47 trips/1,000sf building area

The existing site generates a total of 3 trips during both the AM and PM peak hours.

Proposed Site Trip Generation

- Drive-in-Bank

Peak hour trip generation for the proposed credit union was estimated, consistent with MaineDOT’s policy, utilizing trip data presented in the eighth edition of the ITE publication and

the “average” of two variables; building area and the number of drive-thru lanes. The following table summarizes that effort:

Peak Hour Trip Generation
(Proposed Infinity Credit Union)

Time Period	Building Area Calculation		Number of Lanes Calculation		Average Trips
	Trip Rate (2,834sf)	Trips	Trip Rate (2 lanes)	Trips	
AM Street	12.35/1000 sf	35 trips	9.44/lane	19 trips	27 trips
PM Street	25.82/1000 sf	73 trips	27.41/lane	55 trips	64 trips

Accordingly, the proposed credit union will generate a total of 27 trips in the AM peak hour and an additional 64 trips during the PM peak hour.

“NET” Change in Site Trip Generation

The proposed credit union project will result in an increase of 24 trips in the “morning” peak hour and 61 trips during the “afternoon” peak hour.

EXISTING SAFETY CONDITIONS

The Maine Department of Transportation’s (MaineDOT) Accident Records Section provided the latest three-year (2013 through 2015) crash data for the section of Baxter Boulevard between the Preble Street Extension and Forest Avenue intersections, a distance of approximately 0.15 miles. Their report is presented as follows:

2013 -2015 Traffic Accident Summary

<u>Location</u>	<u>Total Crashes</u>	<u>Critical Rate Factor</u>
1. Forest Avenue/Baxter Boulevard/Bedford Street	34	0.83
2. Preble Street Extension and Baxter Boulevard	21	0.69
3. Baxter Boulevard btw. Preble Street Ext. and Forest Ave.	3	0.53

The MaineDOT considers any roadway intersection or segment a high crash location if both of the following criteria are met:

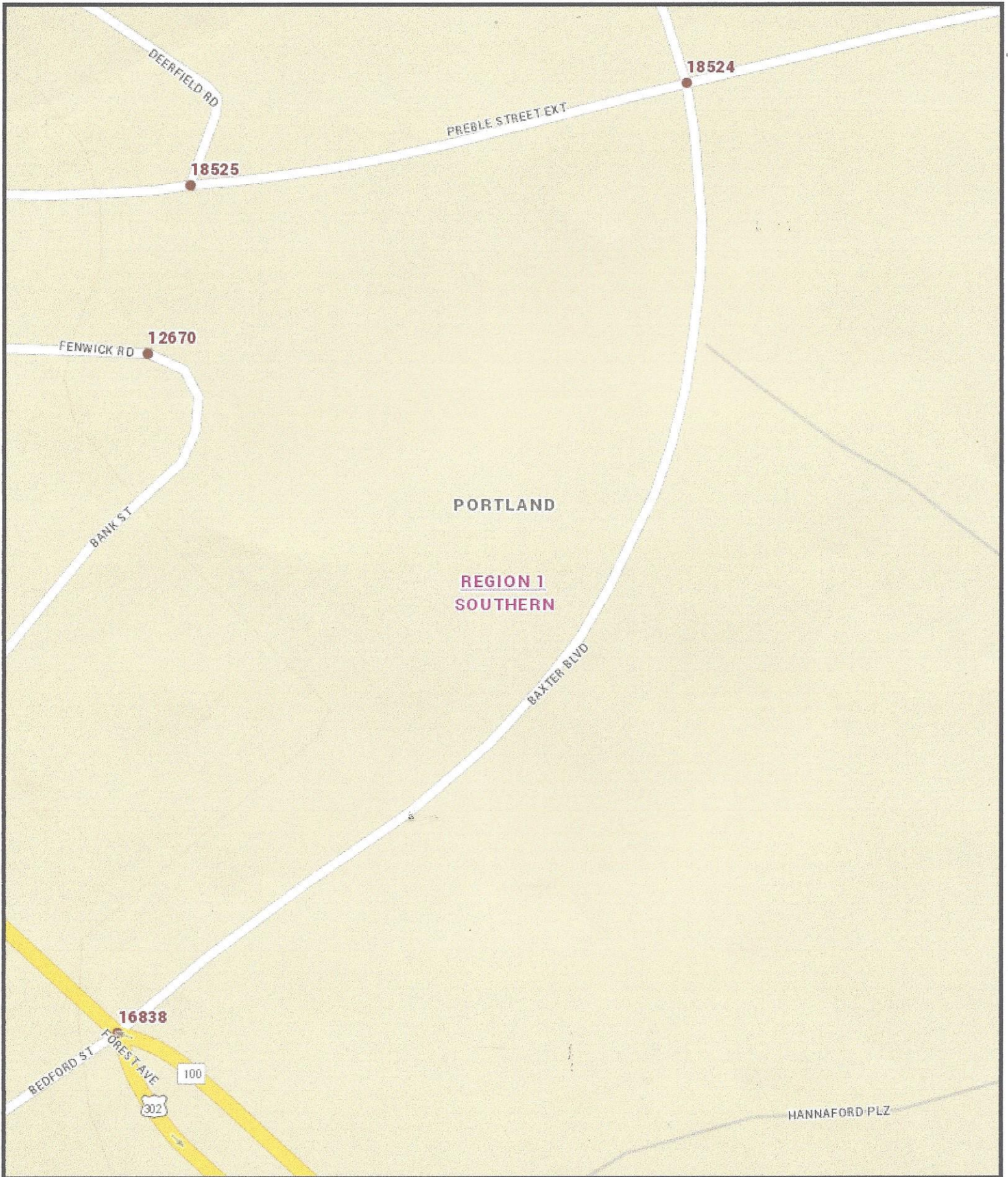
- **8 or more accidents**
- **A Critical Rate Factor greater than 1.00**

As the data presented in the table shows, the incidence of traffic crashes is below MaineDOT’s threshold criteria for identification of a high crash location.

SUMMARY

- The proposed Infinity Credit Union project will generate approximately 27 vehicle trips during the AM peak hour and an additional 64 trips in the PM peak hour. The existing site generates a total of 3 trips during each peak hour time period, which results in a “net” increase of 24 and 61 trips, respectively, for the AM and PM peak hours.
- MaineDOT’s Traffic Safety Bureau’s latest three-year safety report for the identified section of Baxter Boulevard (Forest Avenue and Preble Street Extension) and at both identified signalized intersections experience fewer traffic crashes than the threshold criteria for identification of a high crash location.

DEFAULT TITLE FROM MAP DOCUMENT



The Maine Department of Transportation provides this publication for information only. Reliance upon this information is at user risk. It is subject to revision and may be incomplete depending upon changing conditions. The Department assumes no liability if injuries or damages result from this information. This map is not intended to support emergency dispatch.

0.02 Miles
1 inch = 0.02 miles

Date: 8/15/2016
Time: 12:43:45 PM

Crash Summary Report

Report Selections and Input Parameters

REPORT SELECTIONS

Crash Summary I Section Detail Crash Summary II 1320 Public 1320 Private 1320 Summary

REPORT DESCRIPTION

Baxter Blvd from Forest Ave to Preble St in Portland

REPORT PARAMETERS

Year 2013, Start Month 1 through Year 2015 End Month: 12

Route: **3201021** Start Node: **16838** End Node: **18524** Start Offset: **0** End Offset: **0**
 Exclude First Node Exclude Last Node

Crash Summary I

Nodes

Node	Route - MP	Node Description	U/R	Total Crashes	K	A	B	C	PD	Injury Crashes	Percent Annual M Injury	Annual M Ent-Veh	Crash Rate	Critical Rate	CRF
16838	3201021 - 0	Int of BAXTER BLVD BEDFORD ST FOREST AV	9	34	0	0	3	11	20	41.2	13.959	0.81	0.98	0.00	
													Statewide Crash Rate: 0.67		
18524	3201021 - 0.15	Int of BAXTER BLVD PREBLE ST EXT	9	21	0	0	3	7	11	47.6	9.685	0.72	1.04	0.00	
													Statewide Crash Rate: 0.67		

Study Years: 3.00

NODE TOTALS: 55 0 0 6 18 31 43.6 23.644 0.78 0.91 0.85

Crash Summary I

Start Node	End Node	Element	Offset Begin - End	Route - MP	Section U/R Length	Total Crashes	Sections					Annual HMVM	Crash Rate	Critical Rate	CRF
							K	A	B	C	PD				
16838	18524	3131654	0 - 0.15	3201021 - 0	0.15	3	0	0	0	2	1	0.00481	207.74	394.16	0.00
		Int of BAXTER BLVD BEDFORD ST FOREST AV		RD INV 3201021									Statewide Crash Rate: 158.72		
Study Years:		3.00											207.74	394.16	0.53
Section Totals:					0.15	3	0	0	0	2	1	0.00481	207.74	394.16	0.53
Grand Totals:					0.15	58	0	0	6	20	32	0.00481	4016.38	570.61	7.04