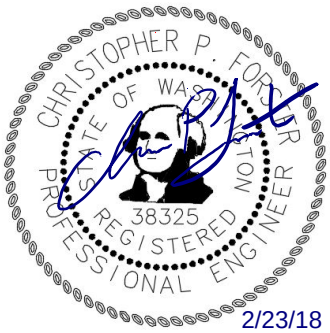
TENW
Transportation Engineering NorthWest

MEMORANDUM



2/23/18

DATE: February 23, 2018

TO: Andrew Sics
City of Snohomish

FROM: Spenser Haynie/Chris Forster, P.E.
TENW

SUBJECT: Trip Generation Memo
McDonald's Redevelopment – Snohomish, WA
TENW Project No. 5663

This memorandum summarizes the preliminary traffic information related to the redevelopment (expansion) of the existing McDonald's restaurant located at 917 Avenue D in Snohomish, WA. This memo includes a project description and trip generation estimate.

Project Description

The existing McDonald's site is located at 917 Avenue D in Snohomish, WA. A vicinity map is included as Attachment A.

The proposed project includes a new 4,578 square foot (SF) McDonald's fast food restaurant with drive-through replacing an existing 3,521 SF McDonald's for a net increase of 1,057 SF. The redevelopment will also include an expanded drive-through facility with a new 2-lane entry configuration. Customer and delivery vehicle ingress/egress will remain the same, with full access provided by the existing driveway on Avenue D. A preliminary site plan is included as Attachment B. Project buildout is expected by the end of 2018.

Trip Generation

Trip generation estimates for weekday daily, AM and PM peak hour for the proposed McDonald's Redevelopment (expansion) were calculated consistent with the trip generation methodology provided in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 10th Edition. Table 1 summarizes the anticipated increase in trip generation with the redevelopment. A detailed trip generation estimate is included in Attachment C.

Table 1
Trip Generation Summary

	Net New Trips		
Time Period	In	Out	Total
Weekday Daily	124	125	249
Weekday AM Peak Hour	12	10	22
Weekday PM Peak Hour	9	9	18

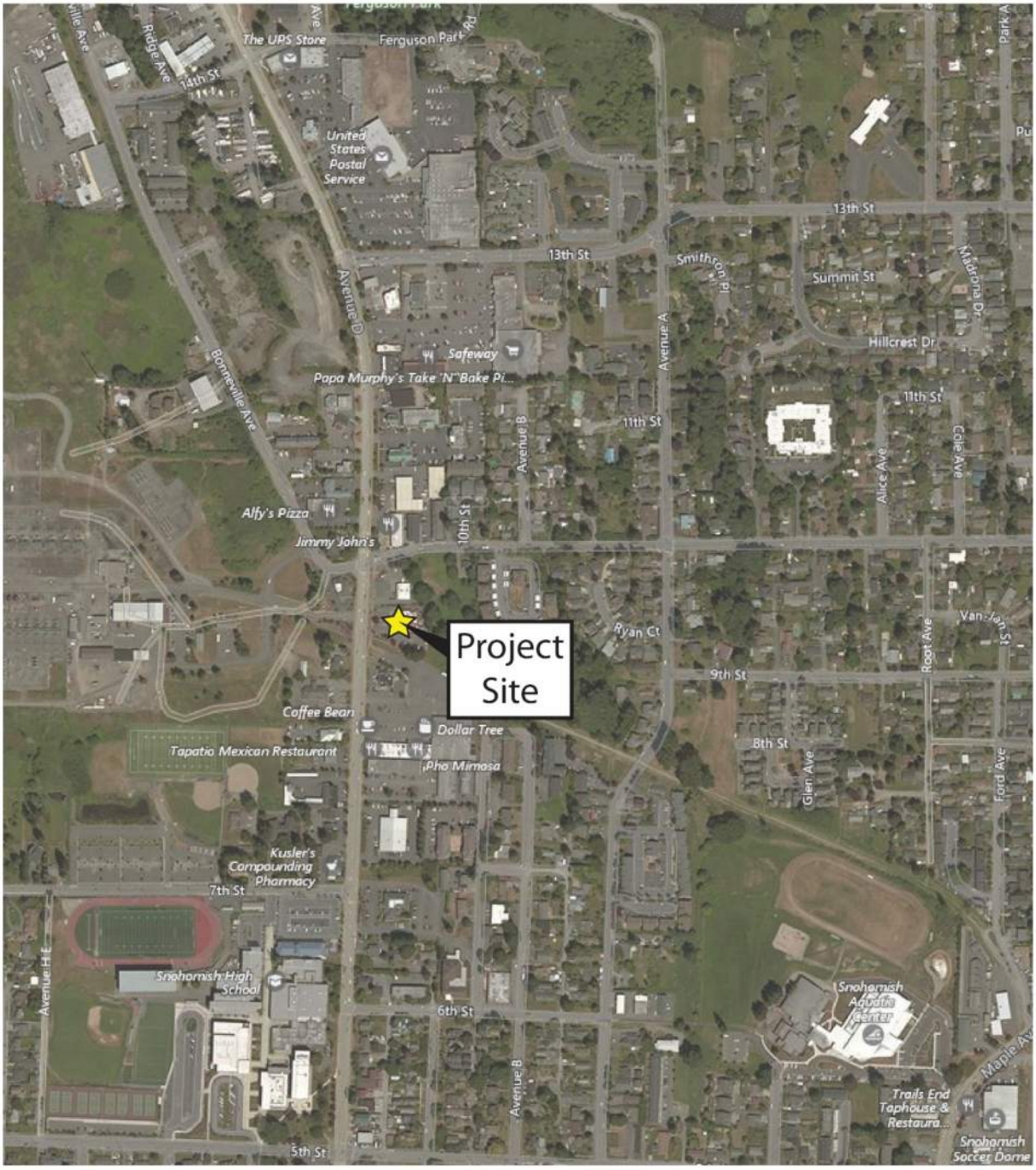
As shown in Table 1, the proposed McDonald's Redevelopment (expansion) is estimated to generate 249 net new weekday daily trips with 22 net new trips occurring during the AM peak hour (12 entering, 10 exiting) and 18 net new trips during the PM peak hour (9 entering, 9 exiting).

Next Steps

Upon your review of this information, please confirm whether any additional traffic analysis will be required for this project. Please contact Spenser Haynie at 206-390-7253 or spenser@tenw.com if you have any questions with the information included in this memorandum.

cc: Jason Green, Navix Engineering

Attachments



Attachment A: Site Vicinity Map

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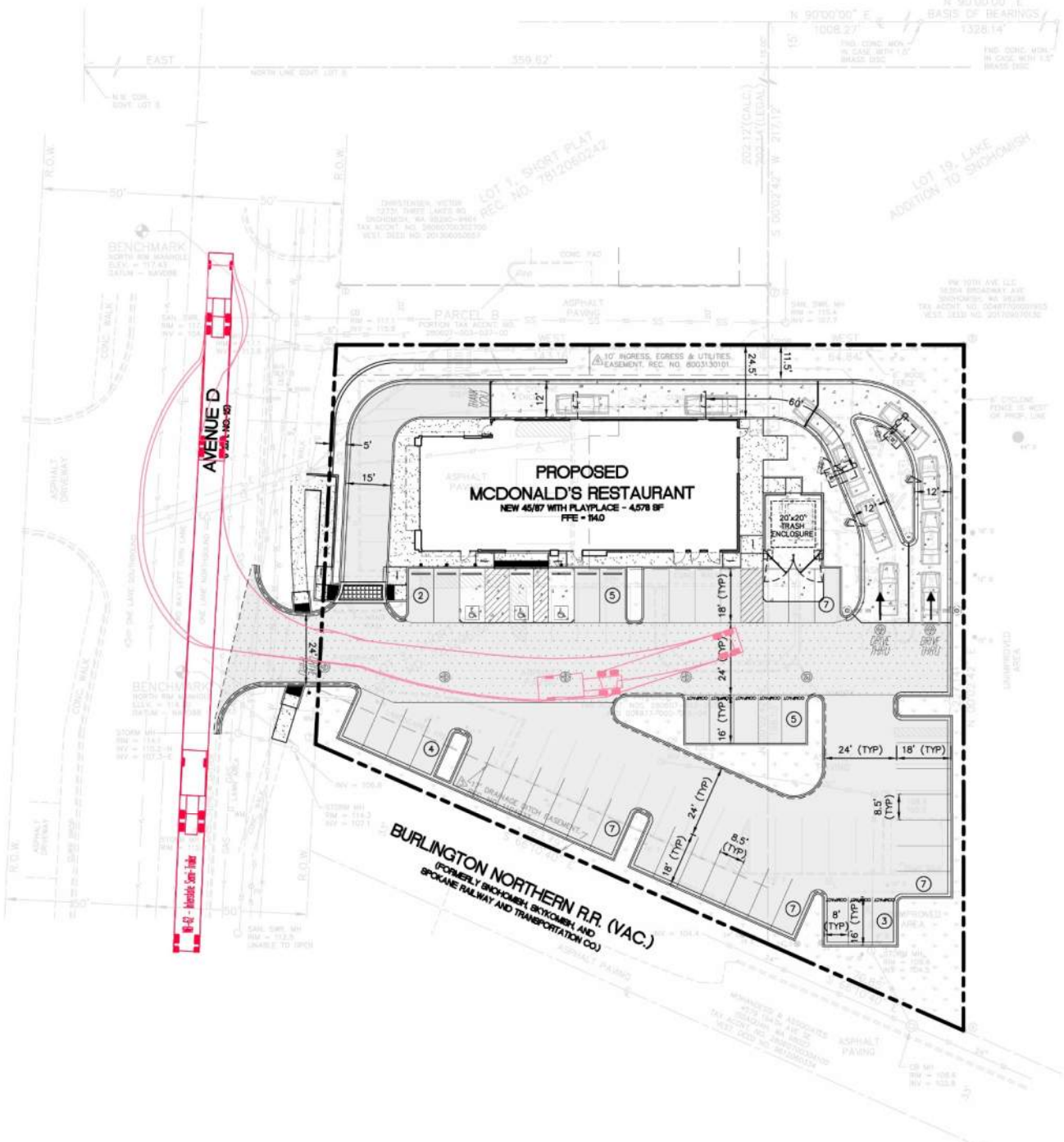
NOT TO SCALE



Attachment B: Preliminary Site Plan

ATTACHMENT C

Trip Generation Calculations

McDonald's Redevelopment - Snohomish, WA
Trip Generation Estimate

DAILY

Land Use	Size	ITE LUC [1]	Directional Split In	Directional Split Out	Trip Rate Total	Trips Generated In	Trips Generated Out	Trips Generated Total
Proposed Use:								
Fast-Food Rest. With Drive-Thru	4,578 GFA	934	50%	50%	470.95	1,078	1,078	2,156
Pass-by Trips [2]	*50%*					-539	-539	-1,078
						539	539	1,078
Less Existing Use:								
Fast-Food Rest. With Drive-Thru	3,521 GFA	934	50%	50%	470.95	-829	-829	-1,658
Pass-by Trips [2]	*50%*					414	415	829
						-415	-414	-829
Net New Weekday Daily Trips Generated =						**124**	**125**	**249**

AM PEAK HOUR

Land Use	Units	ITE LUC [1]	Directional Split In	Directional Split Out	Trip Rate Total	Trips Generated In	Trips Generated Out	Trips Generated Total
Proposed Use:								
Fast-Food Rest. With Drive-Thru	4,578 GFA	934	51%	49%	40.19	94	90	184
Pass-by Trips [2]	*49%*					-46	-44	-90
						48	46	94
Less Existing Use:								
Fast-Food Rest. With Drive-Thru	3,521 GFA	934	51%	49%	40.19	-72	-70	-142
Pass-by Trips [2]	*49%*					36	34	70
						-36	-36	-72
Net New AM Peak Hour Trips Generated =						**12**	**10**	**22**

PM PEAK HOUR

Land Use	Units	ITE LUC [1]	Directional Split In	Directional Split Out	Trip Rate Total	Trips Generated In	Trips Generated Out	Trips Generated Total
Proposed Use:								
Fast-Food Rest. With Drive-Thru	4,578 GFA	934	52%	48%	32.67	78	72	150
Pass-by Trips [2]	*50%*					-39	-36	-75
						39	36	75
Less Existing Use:								
Fast-Food Rest. With Drive-Thru	3,521 GFA	934	52%	48%	32.67	-60	-55	-115
Pass-by Trips [2]	*50%*					30	28	58
						-30	-27	-57
Net New PM Peak Hour Trips Generated =						**9**	**9**	**18**

Notes:

[1] Institute of Transportation Engineers, *Trip Generation* Manual, 10th Edition, 2017.

[2] Pass-by trips determined based on methodology included in the ITE Trip Generation Handbook, 3rd edition, 2017.