

MEMORANDUM

Date: March 2, 2020

- To: Mike Odren, RLA Associate Principal Olson Engineering, Inc. 222 East Evergreen Blvd Vancouver WA 98660
- From: Frank Charbonneau, PE, PTOE
- Subject: Trip Generation Assessment Minit Management Development NW Paradise Park Road, La Center

FL2024

This memo will serve as the trip generation assessment documenting the number of vehicular trips that will be produced by the proposed Minit Management development. The four acre site at address #2814 NW 319th Street is located in the northeast quadrant of NW La Center Road and the I-5 northbound on-ramp.

The development project will demolish the existing convenience store and gas station facilities and construct several new buildings consisting of 11,600 square feet of general retail, fast foot restaurant with drive-through totaling 2,800 square feet, convenience market with coffee drive-through totaling 4,510 square feet, and a 101 unit hotel. Parking on the site for 184 spaces will be provided, including eight ADA parking stalls. A copy of the project's site plan is attached to this memo.

The site we be served by three driveway accesses connecting to the perimeter road (NW Paradise Park Road) on the property's north and east sides. The nearest major intersections include NW La Center Road at the I-5 northbound off-ramp which is configured as a round-about and NW Paradise Park Road at NW La Center Road. This intersection is controlled by stop signing on the northbound Paradise Park Road approach and on the southbound Paradise Road approach.

The City of La Center issued a pre-application conference report (2019-018-PAC) dated June 11, 2019 documenting the application's process and requirements. The staff report detailed that the development agreement between the City and Minit Management LLC dated March 2016 vested a total of 199 PM peak hour trips for the site. As a result it was necessary to submit a trip generation assessment to verify the trip projection.

The number of trips were calculated based on the proposed building uses and sizes. Trip credits were applied for the existing facilities that will be demolished including the convenience market and gas station and a cardlock fueling station. The trip calculations were determined for the weekday average daily traffic (ADT) and the weekday AM and PM peak hours.

The analysis used the <u>ITE Trip Generation</u> manual (10th edition, year 2017).

For the proposed site uses several ITE land use categories were applied including #310 (Hotel), #820 (shopping center), #852 (convenience market), #934 (fast food restaurant with drive-through), and #938 (coffee drive-through). For the existing uses ITE code #853 for convenience market was used and historical rates for Pacific Pride Cardlock were applied for the cardlock fueling station.

A summary of the site's trip generation is provided in the following tables. Table 1 provides the trip generation for the site's existing uses. Table 2 provides the trip generation for the proposed site uses. Table 3 lists the net site trips for the development.

	Units	Weekday							
ITE Land Use		ADT	AM Peak Hour			PM Peak Hour			
			Total	Enter	Exit	Total	Enter	Exit	
Convenience Mkt with Gas (#853)	6 fueling								
Generation Rate ¹	posiitons	322.50	20.76	50%	50%	23.04	50%	50%	
Total Driveway Trips	positions	1,935	125	63	62	138	69	69	
Pass-By Trips ² (AM Peak=63%; PM Peak=66%)			79	40	39	91	46	45	
New Site Trips			46	23	23	47	23	24	
Cardlock Fueling Station	12 fueling								
Generation Rate ³	12 fueling positions		4.44	50%	50%	2.96	50%	50%	
Total Driveway Trips	positions	1445	53	27	26	36	18	18	
Pass-By Trips ² (AM Peak=58%; PM Peak=42%)	-		31	16	15	15	8	7	
New Trips			22	11	11	21	10	11	
Total Site Trips			178	90	88	174	87	87	
Pass-by Trips			110	56	54	106	54	52	
New Trips ⁴		3,380	68	34	34	68	33	35	

Table 1 Existing Land Uses Trip Generation Summary

¹ Source: *Trip Generation*, 10th Edition, ITE, 2017, average rates.

² Pass-by percentage based on *Trip Generation Handbook, 3nd Edition*, ITE, 2017.

³ Source: Independent surveys at Tarr Inc. Pacific Pride. AM trip rate = 1.5x calculated PM trip rate, ADT = 70% of ITE #944 Gas Station Rate.

⁴ New Trips = Total Trips - Internal Trips - Pass-by Trips.



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Table 2 Proposed Land Uses Trip Generation Summary

		Weekday							
ITE Land Use	Units	ADT	AM Peak Hour			PM Peak Hour			
			Total	Enter	Exit	Total	Enter	Exit	
Convenience Mkt [Open 15-16 hours] (#852) 4,410 sq.									
Generation Rate ^{1,2} ft.		345.70	31.02	50%	50%	34.57	49%	51%	
Total Driveway Trips		1,525	137	69	68	152	74	78	
Internal Trips ³ (AM Peak=16%; PM Peak=36%)			22	11	11	55	27	28	
Pass-By Trips ⁴ (AM Peak=63%; PM Peak=66%)			72	36	36	64	31	33	
New Site Trips			43	22	21	33	16	17	
Shopping Center (#820)	11,600								
Generation Rate ²	sq. ft.	37.75	0.94	62%	38%	3.81	48%	52%	
Total Driveway Trips		438	11	7	4	44	21	23	
Internal Trips ³ (AM Peak=16%; PM Peak=36%)			2	1	1	16	8	8	
Pass-By Trips ⁴ (AM Peak=N/A; PM Peak=34%)						10	5	5	
New Site Trips ⁴		438	9	6	3	18	8	10	
Hotel (#310)	101								
Generation Rate ²	rooms	8.36	0.47	59%	41%	0.60	51%	49%	
Total Driveway Trips		844	47	28	19	61	31	30	
Internal Trips ³ (AM Peak=16%; PM Peak=36%)			8	4	4	22	11	11	
New Site Trips			39	24	15	39	20	19	
Fast-Food with Drive-Through (#934) 2,800 sq.									
Generation Rate ²		470.95	40.19	51%	49%	32.67	52%	48%	
Total Driveway Trips		1,319	113	58	55	91	48	43	
Internal Trips ³ (AM Peak=16%; PM Peak=36%)			19	10	9	33	17	16	
Pass-By Trips ⁴ (AM Peak=49%; PM Peak=50%)			46	24	22	29	15	14	
New Trips			48	24	24	29	16	13	
Coffee/Donut Shop with Drive-Through	100								
& No Indoor Seating (#938)	sq. ft.								
Generation Rate ²		2000.00	337.04	50%	50%	83.33	50%	50%	
Total Driveway Trips		200	34	17	17	8	4	4	
Internal Trips ³ (AM Peak=16%; PM Peak=36%)			6	3	3	3	2	1	
Pass-By Trips ^{4,5} (AM Peak=83%; PM Peak=83%)			23	12	11	4	2	2	
New Site Trips			5	2	3	1	0	1	
Total Site Trips	Total Site Trips			179	163	356	178	178	
Internal Trips			57	29	28	129	65	64	
Pass-by Trips			141	72	69	107	53	54	
New Trips			144	78	66	120	60	60	

¹ ADT trip rate estimated as ten times the PM peak hour trip rate.

² Source: *Trip Generation*, 10th Edition, ITE, 2017, average rates.

³ Internal capture calculated with unconstrained internal capture rates presented in the Center for Urban Transportation Research (CUTR) *Trip Internalization in Multi-Use Developments*, April 2014, FDOT.

⁶ New Trips = Total Trips - Internal Trips - Pass-by Trips.



⁴ Pass-by percentage based on Trip Generation Handbook, 3nd Edition, ITE, 2017.

⁵ The weekday PM peak pass-by rate used to calculate the daily and weekday AM peak pass-by trips.

Table 3 presents the net trip generation results (proposed site trips – existing site trips) for the development project. When the new facility is developed it is projected that the site will generate a net of 76 trips in the AM peak hour 52 trips in the PM peak hour. The ADT is projected to increase by 946 trips per day.

	Weekday Peak Hour							
Site Uses	AM Peak Hour			Р	ADT			
	Total	Enter	Exit	Total	Enter	Exit		
Proposed Site ¹	144	78	66	120	60	60	4,326	
Existing Site ²	-68	-34	-34	-68	-33	-35	3,380	
Net New Trips ³	76	44	32	52	27	25	946	

Table 3 Net New Trips

¹ Refer to Table 2.

² Refer to Table 1.

³ Net New Trips = Proposed Site Trips - Existing Site Trips.

It is recommended that the City of La Center support the proposed development without the application of traffic impact fees as the projected number of site trips falls below the vested number of peak hour trips (199 trips) identified in the City's development agreement with Minit Management.

If you should need any additional traffic engineering support on this project or if there are any further questions, please contact Frank Charbonneau, PE, PTOE at 503.293.1118 or email <u>Frank@CharbonneauEngineer.com</u>.

Attachment

Site Plan



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