



memorandum

DATE: December 2, 2019
TO: Jeremy Johnson, County of San Bernardino
FROM: Sandipan Bhattacharjee, PE, TE, AICP, Env SP
SUBJECT: Summerland Senior Living – Vehicle Miles Traveled (VMT) Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the trip generation and project related vehicle miles traveled (VMT) for the proposed Summerland Senior Living facility. The project will be located on the northwest corner of the intersection of Serenity Trail and Chino Avenue in the County of San Bernardino. The project includes 138 beds in 30 units of memory care, 64 units of assisted living, and 16 units of independent living.

PROJECT TRIP GENERATION

The trip generation for the proposed project is based on trip generation rates from the Institute of Transportation Engineers' (ITE) *Trip Generation* (10th Edition) and are based on Land Use 154 – "Assisted Living". Table A shows the calculation of the project trip generation for weekday, Saturday, and Sunday.

Table A - Project Trip Generation

Land Use	Units	Weekday							Saturday				Sunday					
		AM Peak Hour			PM Peak Hour				Daily	Peak Hour			Daily	Peak Hour			Daily	
		In	Out	Total	In	Out	Total	In		Out	Total	In		Out	Total			
Assisted Living	138 Beds																	
Trip Generation Rates ¹		0.12	0.07	0.19	0.10	0.16	0.26	2.60	0.12	0.15	0.27	2.93	0.12	0.16	0.28	3.15		
Inbound/Outbound Splits		63%	37%	100%	38%	62%	100%		46%	54%	100%		43%	57%	100%			
Trip Generation		16	10	26	14	22	36	359	17	20	37	404	17	22	39	435		

¹ Rates based on Land Use 254 - "Assisted Living" from Institute of Transportation Engineers (ITE) *Trip Generation* (10th Ed.).

As shown in Table A, the proposed project is forecast to generate 26 trips in the a.m. peak hour, 36 trips in the p.m. peak hour, and 359 daily trips. The project is forecast to generate 37 peak hour and 404 daily trips on Saturday, and 39 peak hour and 435 daily trips on Sunday.

The County of San Bernardino *Transportation Impact Study Guidelines* (July 9, 2019) requires a Transportation Impact Study (TIS) if a project generates 100 or more trips without consideration of pass-by trips during any peak hour. Since the trip generation of the project is less than 100 trips during any peak hour, it is our professional opinion that a TIS should not be required.

VMT ANALYSIS

The VMT analysis was evaluated consistent with the County Guidelines and include VMT thresholds which state that a project should be considered to have a significant impact if the project VMT per person/employee is greater than 4% below the existing VMT per person/employee for the unincorporated County. In addition, the San Bernardino County Transportation Analysis Model (SBTAM) was used to calculate the VMT for the project and County of San Bernardino.

Table B shows the home-based-work VMT for the County of San Bernardino, as well as the home-based-work VMT for the project.

	Total Homebased/Work VMT (miles)	Total Employees	VMT per Employee
Project	774	35	22.1
County of San Bernardino	5,154,554	212,001	24.3

As shown in Table B, the per employee VMT (VMT per capita) for the County of San Bernardino is 24.3 miles per day. Based on the County threshold, the project will have a significant impact if the per capita VMT is greater than 23.3 miles per day. The project VMT is 22.1 miles per day, which is less than the 23.3 miles per day. Therefore, the project will have a less than significant impact under the County of San Bernardino VMT thresholds.

CONCLUSION

The County of San Bernardino *Transportation Impact Study Guidelines (July 9, 2019)* requires a Transportation Impact Study (TIS) if a project generates 100 or more trips without consideration of pass-by trips during any peak hour. Since the trip generation of the project is less than 100 trips during any peak hour, it is our professional opinion that a TIS should not be required.

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