

**APPENDIX L.3**  
**TRAFFIC ALTERNATIVES MEMO**

## MEMORANDUM

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To: Craig Fajnor  
EcoTierra Consulting, Inc.

Date: October 26, 2020

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From: David S. Shender, P.E.  
Linscott, Law & Greenspan, Engineers

LLG Ref: 5-16-0283-1

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Subject: **Vehicle Miles Traveled Analysis of Alternatives for the Proposed Project at 1100 East 5<sup>th</sup> Street**

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This memorandum has been prepared by Linscott, Law & Greenspan, Engineers (LLG) to provide a Vehicle Miles Traveled (VMT) analysis for each of the Alternatives to be evaluated in the Draft Environmental Impact Report (Draft EIR) for the proposed project (“the Project”) located at 1100 East 5<sup>th</sup> Street in the Arts District area of the City of Los Angeles.

The Project Site is currently occupied by three single-story light industrial buildings with an approximate floor area of 35,445 square feet. As currently proposed, the Project proposes to remove the existing uses and construct mixed-use development including 220 live-work apartment units, 4,350 square feet of associated live-work office space within 29 live-work apartment units, 17,810 square feet of general office floor area, 19,609 square feet of restaurant floor area, and 9,129 square feet of retail floor area. The Project proposes to provide 381 vehicle parking spaces on-site.

In addition to the proposed Project, an optional project description is proposed to include additional office space. The Additional Office Option proposes the replacement of 20 live-work apartment units with an additional 17,765 square feet of office floor area. Specifically, the Additional Office Option proposes to construct 200 live-work apartment units, 4,050 square feet of associated live-work office space within 27 live-work apartment units, 35,575 square feet of general office floor area, 19,609 square feet of restaurant floor area, and 9,129 square feet of retail floor area. The Additional Office Option proposes to provide 381 vehicle parking spaces on-site.

Additionally, three Alternatives are to be evaluated in the Draft EIR. The first set of Alternatives (“Alternative 2a” and “Alternative 2b”) proposes that the Project and Additional Office Option’s components each be reduced by 25 percent. The second Alternative (“Alternative 3”) proposes to remove the live-work apartment units, associated live-work office space, and general office floor area and develop 19,235 square feet of restaurant floor area and 10,736 square feet of retail floor area. It is noted that an Additional Office Option is not considered in conjunction with Alternative 3. The third alternative (“Alternative 4”) proposes that the Project Site be developed with an industrial building with an approximate floor area of 81,014 square feet. It is noted that an Additional Office Option is not considered in conjunction with Alternative 4.

In July 2019, the Los Angeles City Council formally adopted VMT as the criteria for determining transportation impacts of development projects. In conjunction with the adoption of VMT, LADOT issued a revised *Transportation Assessment Guidelines* document dated July 2020 (the “2020 Guidelines”). VMT calculations have been prepared for the Project and Additional Office Option, which are described in the transportation assessment. Included within the VMT calculations are transportation demand management (TDM) measures, which have been incorporated into the VMT calculations prepared for each of the Alternatives.

### **Alternative 2a and Alternative 2b VMT Calculation**

Alternative 2a includes a 25 percent reduction applied to the Project’s components. This Alternative considers the construction of 165 live-work apartment units, 3,263 square feet of associated live-work office space within 22 live-work apartment units, 13,358 square feet of general office floor area, 14,707 square feet of restaurant floor area, and 6,847 square feet of retail floor area. Similarly, Alternative 2b includes a 25 percent reduction applied to the Additional Office Option’s components. This Alternative considers the construction of 150 live-work apartment units, 3,038 square feet of associated live-work office space within 21 live-work apartment units, 26,681 square feet of general office floor area, 14,707 square feet of restaurant floor area, and 6,847 square feet of retail floor area. Both the Project and Additional Office Option would provide 286 parking spaces on-site.

A VMT calculation has been prepared for the Alternative 2a Project and Alternative 2b Additional Office Option using Version 1.3 of the LADOT VMT Calculator. The results are contained within *Appendix A*.

### *Household VMT*

As shown in *Appendix A*, the Project’s Household VMT is calculated to be 3.7 miles per Capita. The threshold of significance applicable to the Project (located in an area under the jurisdiction of the City’s Central Area Planning Commission) is 6.0 miles per Capita. It is noted that the Project incorporates transportation demand management (TDM) strategies as project features. Thus, with the incorporation of TDM strategies as project features, the Project’s Household VMT of 3.7 miles per Capita is less than the maximum allowed per Capita VMT, and the Project’s Household VMT under Alternative 2a is considered to be less than significant.

The Additional Office Option's Household VMT is calculated to be 3.6 miles per Capita, as shown in *Appendix A*. The threshold of significance applicable to the Additional Office Option is 6.0 miles per Capita. It is noted that the Additional Office Option incorporates TDM strategies as project features. Thus, with the incorporation of TDM strategies as project features, the Additional Office Option's Household VMT of 3.6 miles per Capita is less than the maximum allowed per Capita VMT, and the Additional Office Option's Household VMT under Alternative 2b is considered to be less than significant.

#### *Work VMT*

As shown in *Appendix A*, the Project's Work VMT is calculated to be 6.9 miles per Employee. The threshold of significance applicable to the Project (based on its location in the Central Area APC) is 7.6 miles per Employee. It is noted that the Project incorporates TDM strategies as project features. Thus, with the incorporation of TDM strategies as project features, the Project's Work VMT of 6.9 miles per Employee is less than the maximum allowed per Employee VMT, and the Project's Work VMT under Alternative 2a is considered to be less than significant.

The Additional Office Option's Work VMT is calculated to be 7.0 miles per Employee, as shown in *Appendix A*. The threshold of significance applicable to the Additional Office Option is 7.6 miles per Employee. It is noted that the Additional Office Option incorporates TDM strategies as project features. Thus, with the incorporation of TDM strategies as project features, the Additional Office Option's Work VMT of 7.0 miles per Employee is less than the maximum allowed per Employee VMT, and the Additional Office Option's Work VMT under Alternative 2b is considered to be less than significant.

#### **Alternative 3 VMT Calculation**

Alternative 3 includes the removal of the live-work apartment units and office space from the Project description. This Alternative considers the construction of 19,235 square feet of restaurant floor area and 10,736 square feet of retail floor area. A VMT calculation has been prepared for Alternative 3 using Version 1.3 of the LADOT VMT Calculator. The results are contained within *Appendix B*.

### *Household VMT*

The threshold of significance applicable to the Project is 6.0 miles per Capita. Alternative 3 does not include a residential component. As shown in *Appendix C*, the Project does not generate Household VMT and thus does not have a significant VMT impact under Alternative 3.

### *Work VMT*

The threshold of significance applicable to the Project is 7.6 miles per Employee. As shown in *Appendix B*, the Project's retail components<sup>1</sup> total 29,971 square feet, which is less than the screening criteria threshold of 50,000 square feet. Therefore, as specified in the 2020 Guidelines, the Project does not generate Work VMT and thus does not have a significant VMT impact under Alternative 3.

## **Alternative 4 VMT Calculation**

Alternative 4 considers the construction of 81,014 square feet of industrial floor area. A VMT calculation has been prepared for the Alternative using Version 1.3 of the LADOT VMT Calculator. The results are contained within *Appendix C*.

### *Household VMT*

The threshold of significance applicable to the Project is 6.0 miles per Capita. Alternative 4 does not include a residential component. As shown in *Appendix C*, the Project does not generate Household VMT and thus does not have a significant VMT impact under Alternative 4.

### *Work VMT*

The threshold of significance applicable to the Project is 7.6 miles per Employee. As shown in *Appendix C*, the Project generates a net increase of less than 250 daily vehicle trips. Therefore, as specified in the 2020 Guidelines, the Project does not generate Work VMT and thus does not have a significant VMT impact under Alternative 4.

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<sup>1</sup> As noted in the 2020 Guidelines, the definition of retail for this purpose includes restaurant.

## Summary

This memorandum has been prepared to provide a VMT analysis for each of the Alternatives evaluated in the Draft EIR for the proposed Project at 1100 East 5<sup>th</sup> Street in the Arts District Area of the City of Los Angeles. The 2020 Guidelines state that the Household VMT per Capita threshold for the Central Area Planning Commission (APC) must be 6.0 miles or less, and the Work VMT per Employee must be 7.6 miles or less. The findings of the VMT analysis are as follows:

- Alternative 2a, with TDM strategies, is expected to generate 2,065 daily vehicle trips, a daily VMT of 13,463 miles, a Household VMT per Capita of 3.7 miles, and a Work VMT per Employee of 6.9 miles, as shown in *Appendix A*. Therefore, Alternative 2a, with the implementation of TDM strategies, will not have a significant VMT impact.
- Alternative 2b, the Additional Office Option, with TDM strategies, is expected to generate 2,101 daily vehicle trips, a daily VMT of 13,818 miles, a Household VMT per Capita of 3.6 miles, and a Work VMT per Employee of 7.0 miles, as shown in *Appendix A*. Based on the Household VMT per Capita threshold and Work VMT per Employee threshold for the Central APC, the Alternative 2b Additional Office Option, with the implementation of TDM strategies, will not have a significant VMT impact.
- Alternative 3, with TDM strategies, is expected to generate 2,153 daily vehicle trips and a daily VMT of 14,316 miles, as shown in *Appendix B*. Alternative 3 is not expected to generate Household VMT or Work VMT. Therefore, Alternative 3 will not have a significant VMT impact.
- Alternative 4, with TDM strategies, is expected to generate 422 daily vehicle trips and a daily VMT of 2,922 miles, as shown in *Appendix C*. Alternative 4 is not expected to generate Household VMT or Work VMT. Therefore, Alternative 4 will not have a significant VMT impact.

cc: File

**APPENDIX A**  
**VMT CALCULATOR OUTPUT**  
**ALTERNATIVE 2A AND 2B**

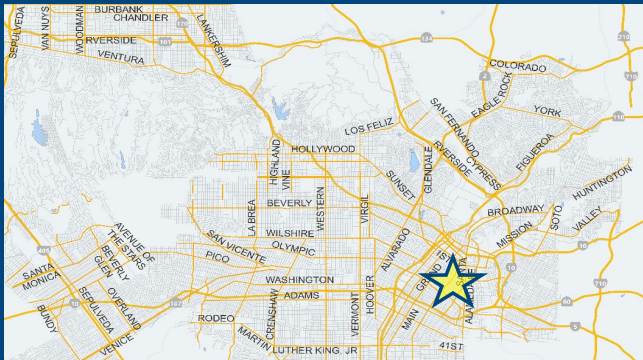
# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



*Project Screening Criteria: Is this project required to conduct a vehicle miles traveled analysis?*

## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Proposed Project - 25% Reduction  
**Address:** 1100 E 5TH ST, 90013



**Is the project replacing an existing number of residential units with a smaller number of residential units AND is located within one-half mile of a fixed-rail or fixed-guideway transit station?**

Yes  No

## Existing Land Use

Land Use Type	Value	Unit
Industrial   Light Industrial	35.445	ksf
Industrial   Light Industrial	35.445	ksf

Click here to add a single custom land use type (will be included in the above list)

## Proposed Project Land Use

Land Use Type	Value	Unit
Office   General Office	16.62	ksf
Housing   Multi-Family	165	DU
Retail   General Retail	6.847	ksf
Retail   High-Turnover Sit-Down Restaurant	14.707	ksf
Office   General Office	16.62	ksf

Click here to add a single custom land use type (will be included in the above list)

## Project Screening Summary

Existing Land Use	Proposed Project
<b>185</b> Daily Vehicle Trips	<b>2,374</b> Daily Vehicle Trips
<b>1,282</b> Daily VMT	<b>15,482</b> Daily VMT

### Tier 1 Screening Criteria

Project will have less residential units compared to existing residential units & is within one-half mile of a fixed-rail station.

### Tier 2 Screening Criteria

The net increase in daily trips < 250 trips	<b>2,189</b> Net Daily Trips
The net increase in daily VMT ≤ 0	<b>14,200</b> Net Daily VMT
The proposed project consists of only retail land uses ≤ 50,000 square feet total.	<b>21,554</b> ksf

**The proposed project is required to perform VMT analysis.**



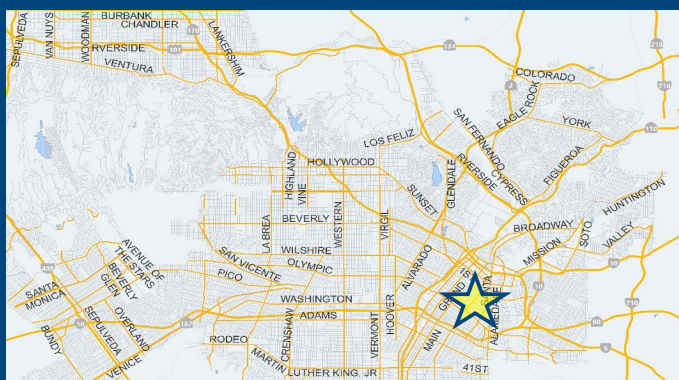


# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Proposed Project - 25% Reduction  
**Address:** 1100 E 5TH ST, 90013



### Proposed Project Land Use Type

Proposed Project Land Use Type	Value	Unit
Housing   Multi-Family	165	DU
Retail   General Retail	6.847	ksf
Retail   High-Turnover Sit-Down Restaurant	14.707	ksf
Office   General Office	16.62	ksf

## TDM Strategies

Select each section to show individual strategies  
 Use  to denote if the TDM strategy is part of the proposed project or is a mitigation strategy

**Max Home Based TDM Achieved?** Proposed Project: No, With Mitigation: No  
**Max Work Based TDM Achieved?** Proposed Project: No, With Mitigation: No

### A Parking

**Reduce Parking Supply**  
 city code parking provision for the project site  
 Proposed Prj  Mitigation  actual parking provision for the project site

**Unbundle Parking**  
 Proposed Prj  Mitigation  monthly parking cost (dollar) for the project site

**Parking Cash-Out**  
 Proposed Prj  Mitigation  percent of employees eligible

**Price Workplace Parking**  
 Proposed Prj  Mitigation  daily parking charge (dollar)  
 Proposed Prj  Mitigation  percent of employees subject to priced parking

**Residential Area Parking**  
 Proposed Prj  Mitigation  cost (dollar) of annual permit

- B** Transit
- C** Education & Encouragement
- D** Commute Trip Reductions
- E** Shared Mobility
- F** Bicycle Infrastructure
- G** Neighborhood Enhancement

## Analysis Results

Proposed Project	With Mitigation
<b>2,065</b> Daily Vehicle Trips	<b>2,065</b> Daily Vehicle Trips
<b>13,463</b> Daily VMT	<b>13,463</b> Daily VMT
<b>3.7</b> Household VMT per Capita	<b>3.7</b> Household VMT per Capita
<b>6.9</b> Work VMT per Employee	<b>6.9</b> Work VMT per Employee
Significant VMT Impact?	
<b>Household: No</b> Threshold = 6.0 15% Below APC	<b>Household: No</b> Threshold = 6.0 15% Below APC
<b>Work: No</b> Threshold = 7.6 15% Below APC	<b>Work: No</b> Threshold = 7.6 15% Below APC



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

Project Information			
Land Use Type		Value	Units
<b>Housing</b>	<i>Single Family</i>	0	DU
	<b>Multi Family</b>	165	DU
	<i>Townhouse</i>	0	DU
	<i>Hotel</i>	0	Rooms
	<i>Motel</i>	0	Rooms
<i>Affordable Housing</i>	<i>Family</i>	0	DU
	<i>Senior</i>	0	DU
	<i>Special Needs</i>	0	DU
	<i>Permanent Supportive</i>	0	DU
<b>Retail</b>	<b>General Retail</b>	6.847	ksf
	<i>Furniture Store</i>	0.000	ksf
	<i>Pharmacy/Drugstore</i>	0.000	ksf
	<i>Supermarket</i>	0.000	ksf
	<i>Bank</i>	0.000	ksf
	<i>Health Club</i>	0.000	ksf
	<b>High-Turnover Sit-Down Restaurant</b>	14.707	ksf
	<i>Fast-Food Restaurant</i>	0.000	ksf
	<i>Quality Restaurant</i>	0.000	ksf
	<i>Auto Repair</i>	0.000	ksf
	<i>Home Improvement</i>	0.000	ksf
	<i>Free-Standing Discount</i>	0.000	ksf
	<i>Movie Theater</i>	0	Seats
	<b>Office</b>	<b>General Office</b>	16.620
<i>Medical Office</i>		0.000	ksf
<i>Industrial</i>	<i>Light Industrial</i>	0.000	ksf
	<i>Manufacturing</i>	0.000	ksf
	<i>Warehousing/Self-Storage</i>	0.000	ksf
<i>School</i>	<i>University</i>	0	Students
	<i>High School</i>	0	Students
	<i>Middle School</i>	0	Students
	<i>Elementary</i>	0	Students
	<i>Private School (K-12)</i>	0	Students
<i>Other</i>		0	Trips

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

<b>Analysis Results</b>			
Total Employees: 139 Total Population: 372			
<b>Proposed Project</b>		<b>With Mitigation</b>	
2,065	Daily Vehicle Trips	2,065	Daily Vehicle Trips
13,463	Daily VMT	13,463	Daily VMT
3.7	Household VMT per Capita	3.7	Household VMT per Capita
6.9	Work VMT per Employee	6.9	Work VMT per Employee
<b>Significant VMT Impact?</b>			
<b>APC: Central</b>			
Impact Threshold: 15% Below APC Average Household = 6.0 Work = 7.6			
<b>Proposed Project</b>		<b>With Mitigation</b>	
VMT Threshold	Impact	VMT Threshold	Impact
Household > 6.0	No	Household > 6.0	No
Work > 7.6	No	Work > 7.6	No

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs				
Strategy Type	Description	Proposed Project	Mitigations	
Parking	Reduce parking supply	City code parking provision (spaces)	460	460
		Actual parking provision (spaces)	286	286
	Unbundle parking	Monthly cost for parking (\$)	\$0	\$0
	Parking cash-out	Employees eligible (%)	0%	0%
	Price workplace parking	Daily parking charge (\$)	\$0.00	\$0.00
		Employees subject to priced parking (%)	0%	0%
	Residential area parking permits	Cost of annual permit (\$)	\$0	\$0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Transit</b>	<i>Reduce transit headways</i>	<i>Reduction in headways (increase in frequency) (%)</i>	0%	
		<i>Existing transit mode share (as a percent of total daily trips) (%)</i>	0%	
		<i>Lines within project site improved (&lt;50%, &gt;=50%)</i>	0	
	<i>Implement neighborhood shuttle</i>	<i>Degree of implementation (low, medium, high)</i>	0	0
		<i>Employees and residents eligible (%)</i>	0%	0%
	<i>Transit subsidies</i>	<i>Employees and residents eligible (%)</i>	0%	0%
<i>Amount of transit subsidy per passenger (daily equivalent) (\$)</i>		\$0.00	\$0.00	
<b>Education &amp; Encouragement</b>	<i>Voluntary travel behavior change program</i>	<i>Employees and residents participating (%)</i>	0%	
	<i>Promotions and marketing</i>	<i>Employees and residents participating (%)</i>	0%	
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Commuter Trip Reductions</b>	<i>Required commute trip reduction program</i>	<i>Employees participating (%)</i>	0%	0%
	<i>Alternative Work Schedules and Telecommute</i>	<i>Employees participating (%)</i>	0%	0%
		<i>Type of program</i>	0	0
		<i>Degree of implementation (low, medium, high)</i>	0	0
	<i>Employer sponsored vanpool or shuttle</i>	<i>Employees eligible (%)</i>	0%	0%
		<i>Employer size (small, medium, large)</i>	0	0
	<i>Ride-share program</i>	<i>Employees eligible (%)</i>	0%	0%
<b>Shared Mobility</b>	<i>Car share</i>	<i>Car share project setting (Urban, Suburban, All Other)</i>	0	0
	<i>Bike share</i>	<i>Within 600 feet of existing bike share station - OR- implementing new bike share station (Yes/No)</i>	0	0
	<i>School carpool program</i>	<i>Level of implementation (Low, Medium, High)</i>	0	0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.			
Strategy Type	Description	Proposed Project	Mitigations
<b>Bicycle Infrastructure</b>	<i>Implement/Improve on-street bicycle facility</i>	<i>Provide bicycle facility along site (Yes/No)</i>	0
	Include Bike parking per LAMC	Meets City Bike Parking Code (Yes/No)	Yes
	<i>Include secure bike parking and showers</i>	<i>Includes indoor bike parking/lockers, showers, &amp; repair station (Yes/No)</i>	0
<b>Neighborhood Enhancement</b>	<i>Traffic calming improvements</i>	<i>Streets with traffic calming improvements (%)</i>	0%
		<i>Intersections with traffic calming improvements (%)</i>	0%
	<i>Pedestrian network improvements</i>	<i>Included (within project and connecting off-site/within project only)</i>	0

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### TDM Adjustments by Trip Purpose & Strategy

#### Place type: Suburban Center

		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
		<b>Parking</b>	Reduce parking supply	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	
Unbundle parking	0%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Parking cash-out	0%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Price workplace parking	0%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Residential area parking permits	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Transit</b>	Reduce transit headways	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Transit sections 1 - 3
	Implement neighborhood shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Transit subsidies	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Education &amp; Encouragement</b>	Voluntary travel behavior change program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Education & Encouragement sections 1 - 2
	Promotions and marketing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Commute Trip Reductions</b>	Required commute trip reduction program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Commute Trip Reductions sections 1 - 4
	Alternative Work Schedules and Telecommute Program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Employer sponsored vanpool or shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Ride-share program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Shared Mobility</b>	Car-share	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Shared Mobility sections 1 - 3
	Bike share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	School carpool program	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### TDM Adjustments by Trip Purpose & Strategy, Cont.

Place type: Suburban Center

		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
		<b>Bicycle Infrastructure</b>	Implement/ Improve on-street bicycle facility	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Include Bike parking per LAMC	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	
	Include secure bike parking and showers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<b>Neighborhood Enhancement</b>	Traffic calming improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Neighborhood Enhancement
	Pedestrian network improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

### Final Combined & Maximum TDM Effect

	Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction	
	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated
	<b>COMBINED TOTAL</b>	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%
<b>MAX. TDM EFFECT</b>	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%

$$= \text{Minimum}(X\%, 1 - [(1-A) * (1-B) \dots])$$

where X%=

<b>PLACE</b>	urban	75%
<b>TYPE</b>	compact infill	40%
<b>MAX:</b>	suburban center	20%
	suburban	15%

Note:  $(1 - [(1-A) * (1-B) \dots])$  reflects the dampened combined effectiveness of TDM Strategies (e.g., A, B, ...). See the TDM Strategy Appendix (*Transportation Assessment Guidelines Attachment G*) for further discussion of dampening.

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 4: MXD Methodology

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### MXD Methodology - Project Without TDM

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	148	-36.5%	94	6.8	1,006	639
Home Based Other Production	410	-49.0%	209	4.5	1,845	941
Non-Home Based Other Production	692	-5.2%	656	7.4	5,121	4,854
Home-Based Work Attraction	202	-33.2%	135	8.2	1,656	1,107
Home-Based Other Attraction	1,338	-43.0%	763	5.8	7,760	4,425
Non-Home Based Other Attraction	547	-5.5%	517	6.8	3,720	3,516

### MXD Methodology with TDM Measures

	<i>Proposed Project</i>			<i>Project with Mitigation Measures</i>		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	-13.0%	82	556	-13.0%	82	556
Home Based Other Production	-13.0%	182	818	-13.0%	182	818
Non-Home Based Other Production	-13.0%	570	4,221	-13.0%	570	4,221
Home-Based Work Attraction	-13.0%	117	963	-13.0%	117	963
Home-Based Other Attraction	-13.0%	664	3,848	-13.0%	664	3,848
Non-Home Based Other Attraction	-13.0%	450	3,057	-13.0%	450	3,057

### MXD VMT Methodology Per Capita & Per Employee

Total Population: 372

Total Employees: 139

APC: Central

	<i>Proposed Project</i>	<i>Project with Mitigation Measures</i>
<i>Total Home Based Production VMT</i>	<b>1,374</b>	<b>1,374</b>
<i>Total Home Based Work Attraction VMT</i>	<b>963</b>	<b>963</b>
<i>Total Home Based VMT Per Capita</i>	<b>3.7</b>	<b>3.7</b>
<i>Total Work Based VMT Per Employee</i>	<b>6.9</b>	<b>6.9</b>

## VMT Calculator User Agreement

The Los Angeles Department of Transportation (LADOT), in partnership with the Department of City Planning and Fehr & Peers, has developed the City of Los Angeles Vehicle Miles Traveled (VMT) Calculator to estimate project-specific daily household VMT per capita and daily work VMT per employee for land use development projects. This application, the VMT Calculator, has been provided to You, the User, to assess vehicle miles traveled (VMT) outcomes of land use projects within the City of Los Angeles. The term “City” as used below shall refer to the City of Los Angeles. The terms “City” and “Fehr & Peers” as used below shall include their respective affiliates, subconsultants, employees, and representatives.

The City is pleased to be able to provide this information to the public. The City believes that the public is most effectively served when they are provided access to the technical tools that inform the public review process of private and public land use investments. However, in using the VMT Calculator, You agree to be bound by this VMT Calculator User Agreement (this Agreement).

**VMT Calculator Application for the City of Los Angeles.** The City’s consultant calibrated the VMT Calculator’s parameters in 2018 to estimate travel patterns of locations in the City, and validated those outcomes against empirical data. However, this calibration process is limited to locations within the City, and practitioners applying the VMT Calculator outside of the City boundaries should not apply these estimates without further calibration and validation of travel patterns to verify the VMT Calculator’s accuracy in estimating VMT in such other locations.

**Limited License to Use.** This Agreement gives You a limited, non-transferrable, non-assignable, and non-exclusive license to use and execute a copy of the VMT Calculator on a computer system owned, leased or otherwise controlled by You in Your own facilities, as set out below, provided You do not use the VMT Calculator in an unauthorized manner, and that You do not republish, copy, distribute, reverse-engineer, modify, decompile, disassemble, transfer, or sell any part of the VMT Calculator, and provided that You know and follow the terms of this Agreement. Your failure to follow the terms of this Agreement shall automatically terminate this license and Your right to use the VMT Calculator.

**Ownership.** You understand and acknowledge that the City owns the VMT Calculator, and shall continue to own it through Your use of it, and that no transfer of ownership of any kind is intended in allowing You to use the VMT Calculator.

**Warranty Disclaimer.** In spite of the efforts of the City and Fehr & Peers, some information on the VMT Calculator may not be accurate. The VMT Calculator, OUTPUTS AND ASSOCIATED DATA ARE PROVIDED “as is” WITHOUT WARRANTY OF ANY KIND, whether expressed, implied, statutory, or otherwise including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

**Limitation of Liability.** It is understood that the VMT Calculator is provided without charge. Neither the City nor Fehr & Peers can be responsible or liable for any information derived from its use, or for any delays, inaccuracies, incompleteness, errors or omissions arising out of your use of the VMT Calculator or with respect to the material contained in the VMT Calculator. You understand and agree that Your sole remedy against the City or Fehr & Peers for loss or damage caused by any defect or failure of the


VMT Calculator, regardless of the form of action, whether in contract, tort, including negligence, strict liability or otherwise, shall be the repair or replacement of the VMT Calculator to the extent feasible as determined solely by the City. In no event shall the City or Fehr & Peers be responsible to You or anyone else for, or have liability for any special, indirect, incidental or consequential damages (including, without limitation, damages for loss of business profits or changes to businesses costs) or lost data or downtime, however caused, and on any theory of liability from the use of, or the inability to use, the VMT Calculator, whether the data, and/or formulas contained in the VMT Calculator are provided by the City or Fehr & Peers, or another third party, even if the City or Fehr & Peers have been advised of the possibility of such damages.

This Agreement and License shall be governed by the laws of the State of California without regard to their conflicts of law provisions, and shall be effective as of the date set forth below and, unless terminated in accordance with the above or extended by written amendment to this Agreement, shall terminate on the earlier of the date that You are not making use of the VMT Calculator or one year after the beginning of Your use of the VMT Calculator.

By using the VMT Calculator, You hereby waive and release all claims, responsibilities, liabilities, actions, damages, costs, and losses, known and unknown, against the City and Fehr & Peers for Your use of the VMT Calculator.

Before making decisions using the information provided in this application, contact City LADOT staff to confirm the validity of the data provided.

Print and sign below, and submit to LADOT along with the transportation assessment Memorandum of Understanding (MOU).

You, the User	
By:	<u></u>
Print Name:	<u>Amrita Shankar</u>
Title:	<u>Transportation Engineer I</u>
Company:	<u>Linscott, Law, &amp; Greenspan, Engineers</u>
Address:	<u>20931 Burbank Boulevard, Suite C</u> <u>Woodland Hills, CA 91367</u>
Phone:	<u>818.835.8648</u>
Email Address:	<u>shankar@llgengineers.com</u>
Date:	<u>09/30/2020</u>

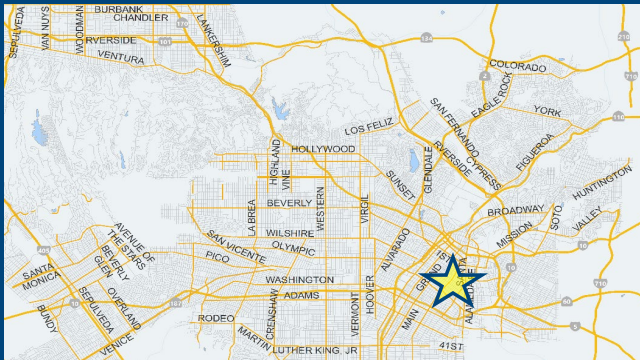
# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



*Project Screening Criteria: Is this project required to conduct a vehicle miles traveled analysis?*

## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Additional Office Option - 25% Reduction  
**Address:** 1100 E 5TH ST, 90013



**Is the project replacing an existing number of residential units with a smaller number of residential units AND is located within one-half mile of a fixed-rail or fixed-guideway transit station?**

Yes  No

## Existing Land Use

Land Use Type	Value	Unit
Industrial   Light Industrial	35.445	ksf
Industrial   Light Industrial	35.445	ksf

Click here to add a single custom land use type (will be included in the above list)

## Proposed Project Land Use

Land Use Type	Value	Unit
Office   General Office	29.719	ksf
Housing   Multi-Family	150	DU
Retail   General Retail	6.847	ksf
Retail   High-Turnover Sit-Down Restaurant	14.707	ksf
Office   General Office	29.719	ksf

Click here to add a single custom land use type (will be included in the above list)

## Project Screening Summary

Existing Land Use	Proposed Project
<b>185</b> Daily Vehicle Trips	<b>2,418</b> Daily Vehicle Trips
<b>1,282</b> Daily VMT	<b>15,891</b> Daily VMT

### Tier 1 Screening Criteria

Project will have less residential units compared to existing residential units & is within one-half mile of a fixed-rail station.

### Tier 2 Screening Criteria

The net increase in daily trips < 250 trips **2,233**  
Net Daily Trips

The net increase in daily VMT ≤ 0 **14,609**  
Net Daily VMT

The proposed project consists of only retail land uses ≤ 50,000 square feet total. **21,554**  
ksf

**The proposed project is required to perform VMT analysis.**

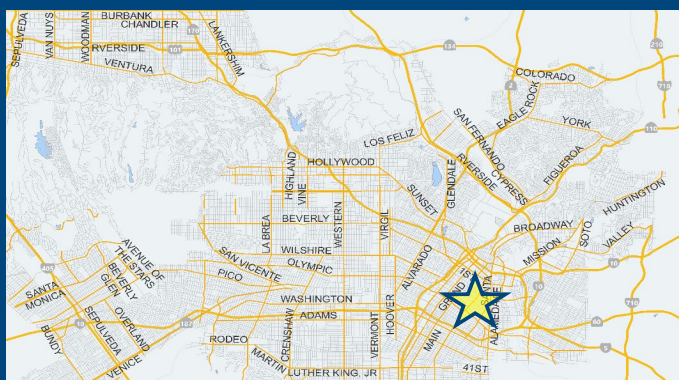


# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Additional Office Option - 25% Reduction  
**Address:** 1100 E 5TH ST, 90013



### Proposed Project Land Use Type

Proposed Project Land Use Type	Value	Unit
Housing   Multi-Family	150	DU
Retail   General Retail	6.847	ksf
Retail   High-Turnover Sit-Down Restaurant	14.707	ksf
Office   General Office	29.719	ksf

## TDM Strategies

Select each section to show individual strategies  
 Use  to denote if the TDM strategy is part of the proposed project or is a mitigation strategy

**Max Home Based TDM Achieved?** Proposed Project  No With Mitigation  No  
**Max Work Based TDM Achieved?** Proposed Project  No With Mitigation  No

### A Parking

**Reduce Parking Supply**  Proposed Prj  Mitigation

city code parking provision for the project site: 463  
 actual parking provision for the project site: 286

**Unbundle Parking**  Proposed Prj  Mitigation

monthly parking cost (dollar) for the project site: 175

**Parking Cash-Out**  Proposed Prj  Mitigation

percent of employees eligible: 50

**Price Workplace Parking**  Proposed Prj  Mitigation

daily parking charge (dollar): 6.00  
 percent of employees subject to priced parking: 50

**Residential Area Parking Permits**  Proposed Prj  Mitigation

cost (dollar) of annual permit: 200

- B** Transit
- C** Education & Encouragement
- D** Commute Trip Reductions
- E** Shared Mobility
- F** Bicycle Infrastructure
- G** Neighborhood Enhancement

## Analysis Results

Proposed Project	With Mitigation
<b>2,101</b> Daily Vehicle Trips	<b>2,101</b> Daily Vehicle Trips
<b>13,818</b> Daily VMT	<b>13,818</b> Daily VMT
<b>3.6</b> Household VMT per Capita	<b>3.6</b> Household VMT per Capita
<b>7.0</b> Work VMT per Employee	<b>7.0</b> Work VMT per Employee
Significant VMT Impact?	
<b>Household: No</b> Threshold = 6.0 15% Below APC	<b>Household: No</b> Threshold = 6.0 15% Below APC
<b>Work: No</b> Threshold = 7.6 15% Below APC	<b>Work: No</b> Threshold = 7.6 15% Below APC



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

Project Information			
Land Use Type		Value	Units
<b>Housing</b>	<i>Single Family</i>	0	DU
	<b>Multi Family</b>	150	DU
	<i>Townhouse</i>	0	DU
	<i>Hotel</i>	0	Rooms
	<i>Motel</i>	0	Rooms
<i>Affordable Housing</i>	<i>Family</i>	0	DU
	<i>Senior</i>	0	DU
	<i>Special Needs</i>	0	DU
	<i>Permanent Supportive</i>	0	DU
<b>Retail</b>	<b>General Retail</b>	6.847	ksf
	<i>Furniture Store</i>	0.000	ksf
	<i>Pharmacy/Drugstore</i>	0.000	ksf
	<i>Supermarket</i>	0.000	ksf
	<i>Bank</i>	0.000	ksf
	<i>Health Club</i>	0.000	ksf
	<b>High-Turnover Sit-Down Restaurant</b>	14.707	ksf
	<i>Fast-Food Restaurant</i>	0.000	ksf
	<i>Quality Restaurant</i>	0.000	ksf
	<i>Auto Repair</i>	0.000	ksf
	<i>Home Improvement</i>	0.000	ksf
	<i>Free-Standing Discount</i>	0.000	ksf
	<i>Movie Theater</i>	0	Seats
<b>Office</b>	<b>General Office</b>	29.719	ksf
	<i>Medical Office</i>	0.000	ksf
<i>Industrial</i>	<i>Light Industrial</i>	0.000	ksf
	<i>Manufacturing</i>	0.000	ksf
	<i>Warehousing/Self-Storage</i>	0.000	ksf
<i>School</i>	<i>University</i>	0	Students
	<i>High School</i>	0	Students
	<i>Middle School</i>	0	Students
	<i>Elementary</i>	0	Students
	<i>Private School (K-12)</i>	0	Students
<i>Other</i>	0	Trips	

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

<b>Analysis Results</b>			
Total Employees: 191 Total Population: 338			
<b>Proposed Project</b>		<b>With Mitigation</b>	
2,101	Daily Vehicle Trips	2,101	Daily Vehicle Trips
13,818	Daily VMT	13,818	Daily VMT
3.6	Household VMT per Capita	3.6	Household VMT per Capita
7	Work VMT per Employee	7	Work VMT per Employee
<b>Significant VMT Impact?</b>			
<b>APC: Central</b>			
Impact Threshold: 15% Below APC Average Household = 6.0 Work = 7.6			
<b>Proposed Project</b>		<b>With Mitigation</b>	
VMT Threshold	Impact	VMT Threshold	Impact
Household > 6.0	No	Household > 6.0	No
Work > 7.6	No	Work > 7.6	No



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reducti

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs				
Strategy Type	Description	Proposed Project	Mitigations	
Parking	Reduce parking supply	City code parking provision (spaces)	463	463
		Actual parking provision (spaces)	286	286
	Unbundle parking	Monthly cost for parking (\$)	\$0	\$0
	Parking cash-out	Employees eligible (%)	0%	0%
	Price workplace parking	Daily parking charge (\$)	\$0.00	\$0.00
		Employees subject to priced parking (%)	0%	0%
	Residential area parking permits	Cost of annual permit (\$)	\$0	\$0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reducti

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Transit</b>	<i>Reduce transit headways</i>	<i>Reduction in headways (increase in frequency) (%)</i>	0%	
		<i>Existing transit mode share (as a percent of total daily trips) (%)</i>	0%	
		<i>Lines within project site improved (&lt;50%, &gt;=50%)</i>	0	
	<i>Implement neighborhood shuttle</i>	<i>Degree of implementation (low, medium, high)</i>	0	0
		<i>Employees and residents eligible (%)</i>	0%	0%
	<i>Transit subsidies</i>	<i>Employees and residents eligible (%)</i>	0%	0%
<i>Amount of transit subsidy per passenger (daily equivalent) (\$)</i>		\$0.00	\$0.00	
<b>Education &amp; Encouragement</b>	<i>Voluntary travel behavior change program</i>	<i>Employees and residents participating (%)</i>	0%	
	<i>Promotions and marketing</i>	<i>Employees and residents participating (%)</i>	0%	
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reducti

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Commuter Trip Reductions</b>	<i>Required commute trip reduction program</i>	<i>Employees participating (%)</i>	0%	0%
	<i>Alternative Work Schedules and Telecommute</i>	<i>Employees participating (%)</i>	0%	0%
		<i>Type of program</i>	0	0
		<i>Degree of implementation (low, medium, high)</i>	0	0
	<i>Employer sponsored vanpool or shuttle</i>	<i>Employees eligible (%)</i>	0%	0%
		<i>Employer size (small, medium, large)</i>	0	0
	<i>Ride-share program</i>	<i>Employees eligible (%)</i>	0%	0%
<b>Shared Mobility</b>	<i>Car share</i>	<i>Car share project setting (Urban, Suburban, All Other)</i>	0	0
	<i>Bike share</i>	<i>Within 600 feet of existing bike share station - OR- implementing new bike share station (Yes/No)</i>	0	0
	<i>School carpool program</i>	<i>Level of implementation (Low, Medium, High)</i>	0	0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reducti

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.			
Strategy Type	Description	Proposed Project	Mitigations
<b>Bicycle Infrastructure</b>	<i>Implement/Improve on-street bicycle facility</i>	<i>Provide bicycle facility along site (Yes/No)</i>	0
	Include Bike parking per LAMC	Meets City Bike Parking Code (Yes/No)	Yes
	<i>Include secure bike parking and showers</i>	<i>Includes indoor bike parking/lockers, showers, &amp; repair station (Yes/No)</i>	0
<b>Neighborhood Enhancement</b>	<i>Traffic calming improvements</i>	<i>Streets with traffic calming improvements (%)</i>	0%
		<i>Intersections with traffic calming improvements (%)</i>	0%
	<i>Pedestrian network improvements</i>	<i>Included (within project and connecting off-site/within project only)</i>	0

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Adjustments by Trip Purpose & Strategy														
Place type: Suburban Center														
		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
<b>Parking</b>	Reduce parking supply	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	TDM Strategy Appendix, Parking sections 1 - 5
	Unbundle parking	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Parking cash-out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Price workplace parking	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Residential area parking permits	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Transit</b>	Reduce transit headways	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Transit sections 1 - 3
	Implement neighborhood shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Transit subsidies	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Education &amp; Encouragement</b>	Voluntary travel behavior change program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Education & Encouragement sections 1 - 2
	Promotions and marketing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Commute Trip Reductions</b>	Required commute trip reduction program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Commute Trip Reductions sections 1 - 4
	Alternative Work Schedules and Telecommute Program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Employer sponsored vanpool or shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Ride-share program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Shared Mobility</b>	Car-share	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Shared Mobility sections 1 - 3
	Bike share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	School carpool program	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reduction

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### TDM Adjustments by Trip Purpose & Strategy, Cont.

Place type: Suburban Center

		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
		<b>Bicycle Infrastructure</b>	Implement/ Improve on-street bicycle facility	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Include Bike parking per LAMC	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	
	Include secure bike parking and showers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<b>Neighborhood Enhancement</b>	Traffic calming improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Neighborhood Enhancement
	Pedestrian network improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

### Final Combined & Maximum TDM Effect

	Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction	
	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated
	<b>COMBINED TOTAL</b>	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%
<b>MAX. TDM EFFECT</b>	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%	13%

$$= \text{Minimum}(X\%, 1 - [(1-A) * (1-B)...])$$

where X%=

<b>PLACE</b>	urban	75%
<b>TYPE</b>	compact infill	40%
<b>MAX:</b>	suburban center	20%
	suburban	15%

Note:  $(1 - [(1-A) * (1-B)...])$  reflects the dampened combined effectiveness of TDM Strategies (e.g., A, B,...). See the TDM Strategy Appendix (*Transportation Assessment Guidelines Attachment G*) for further discussion of dampening.

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 4: MXD Methodology

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Additional Office Option - 25% Reductic

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### MXD Methodology - Project Without TDM

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	134	-38.1%	83	6.8	911	564
Home Based Other Production	372	-49.2%	189	4.5	1,674	851
Non-Home Based Other Production	692	-5.2%	656	7.4	5,121	4,854
Home-Based Work Attraction	278	-32.4%	188	8.2	2,280	1,542
Home-Based Other Attraction	1,354	-42.9%	773	5.8	7,853	4,483
Non-Home Based Other Attraction	560	-5.5%	529	6.8	3,808	3,597

### MXD Methodology with TDM Measures

	<i>Proposed Project</i>			<i>Project with Mitigation Measures</i>		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	-13.0%	72	490	-13.0%	72	490
Home Based Other Production	-13.0%	164	740	-13.0%	164	740
Non-Home Based Other Production	-13.0%	570	4,221	-13.0%	570	4,221
Home-Based Work Attraction	-13.0%	163	1,341	-13.0%	163	1,341
Home-Based Other Attraction	-13.0%	672	3,898	-13.0%	672	3,898
Non-Home Based Other Attraction	-13.0%	460	3,128	-13.0%	460	3,128

### MXD VMT Methodology Per Capita & Per Employee

Total Population: 338

Total Employees: 191

APC: Central

	<i>Proposed Project</i>	<i>Project with Mitigation Measures</i>
<i>Total Home Based Production VMT</i>	<b>1,230</b>	<b>1,230</b>
<i>Total Home Based Work Attraction VMT</i>	<b>1,341</b>	<b>1,341</b>
<i>Total Home Based VMT Per Capita</i>	<b>3.6</b>	<b>3.6</b>
<i>Total Work Based VMT Per Employee</i>	<b>7.0</b>	<b>7.0</b>

## VMT Calculator User Agreement

The Los Angeles Department of Transportation (LADOT), in partnership with the Department of City Planning and Fehr & Peers, has developed the City of Los Angeles Vehicle Miles Traveled (VMT) Calculator to estimate project-specific daily household VMT per capita and daily work VMT per employee for land use development projects. This application, the VMT Calculator, has been provided to You, the User, to assess vehicle miles traveled (VMT) outcomes of land use projects within the City of Los Angeles. The term “City” as used below shall refer to the City of Los Angeles. The terms “City” and “Fehr & Peers” as used below shall include their respective affiliates, subconsultants, employees, and representatives.

The City is pleased to be able to provide this information to the public. The City believes that the public is most effectively served when they are provided access to the technical tools that inform the public review process of private and public land use investments. However, in using the VMT Calculator, You agree to be bound by this VMT Calculator User Agreement (this Agreement).

**VMT Calculator Application for the City of Los Angeles.** The City’s consultant calibrated the VMT Calculator’s parameters in 2018 to estimate travel patterns of locations in the City, and validated those outcomes against empirical data. However, this calibration process is limited to locations within the City, and practitioners applying the VMT Calculator outside of the City boundaries should not apply these estimates without further calibration and validation of travel patterns to verify the VMT Calculator’s accuracy in estimating VMT in such other locations.

**Limited License to Use.** This Agreement gives You a limited, non-transferrable, non-assignable, and non-exclusive license to use and execute a copy of the VMT Calculator on a computer system owned, leased or otherwise controlled by You in Your own facilities, as set out below, provided You do not use the VMT Calculator in an unauthorized manner, and that You do not republish, copy, distribute, reverse-engineer, modify, decompile, disassemble, transfer, or sell any part of the VMT Calculator, and provided that You know and follow the terms of this Agreement. Your failure to follow the terms of this Agreement shall automatically terminate this license and Your right to use the VMT Calculator.

**Ownership.** You understand and acknowledge that the City owns the VMT Calculator, and shall continue to own it through Your use of it, and that no transfer of ownership of any kind is intended in allowing You to use the VMT Calculator.

**Warranty Disclaimer.** In spite of the efforts of the City and Fehr & Peers, some information on the VMT Calculator may not be accurate. The VMT Calculator, OUTPUTS AND ASSOCIATED DATA ARE PROVIDED “as is” WITHOUT WARRANTY OF ANY KIND, whether expressed, implied, statutory, or otherwise including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

**Limitation of Liability.** It is understood that the VMT Calculator is provided without charge. Neither the City nor Fehr & Peers can be responsible or liable for any information derived from its use, or for any delays, inaccuracies, incompleteness, errors or omissions arising out of your use of the VMT Calculator or with respect to the material contained in the VMT Calculator. You understand and agree that Your sole remedy against the City or Fehr & Peers for loss or damage caused by any defect or failure of the




VMT Calculator, regardless of the form of action, whether in contract, tort, including negligence, strict liability or otherwise, shall be the repair or replacement of the VMT Calculator to the extent feasible as determined solely by the City. In no event shall the City or Fehr & Peers be responsible to You or anyone else for, or have liability for any special, indirect, incidental or consequential damages (including, without limitation, damages for loss of business profits or changes to businesses costs) or lost data or downtime, however caused, and on any theory of liability from the use of, or the inability to use, the VMT Calculator, whether the data, and/or formulas contained in the VMT Calculator are provided by the City or Fehr & Peers, or another third party, even if the City or Fehr & Peers have been advised of the possibility of such damages.

This Agreement and License shall be governed by the laws of the State of California without regard to their conflicts of law provisions, and shall be effective as of the date set forth below and, unless terminated in accordance with the above or extended by written amendment to this Agreement, shall terminate on the earlier of the date that You are not making use of the VMT Calculator or one year after the beginning of Your use of the VMT Calculator.

By using the VMT Calculator, You hereby waive and release all claims, responsibilities, liabilities, actions, damages, costs, and losses, known and unknown, against the City and Fehr & Peers for Your use of the VMT Calculator.

Before making decisions using the information provided in this application, contact City LADOT staff to confirm the validity of the data provided.

Print and sign below, and submit to LADOT along with the transportation assessment Memorandum of Understanding (MOU).

You, the User	
By:	<u></u>
Print Name:	<u>Amrita Shankar</u>
Title:	<u>Transportation Engineer I</u>
Company:	<u>Linscott, Law, &amp; Greenspan, Engineers</u>
Address:	<u>20931 Burbank Boulevard, Suite C</u> <u>Woodland Hills, CA 91367</u>
Phone:	<u>818.835.8648</u>
Email Address:	<u>shankar@llgengineers.com</u>
Date:	<u>09/30/2020</u>

**APPENDIX B**  
**VMT CALCULATOR OUTPUT**  
**ALTERNATIVE 3**

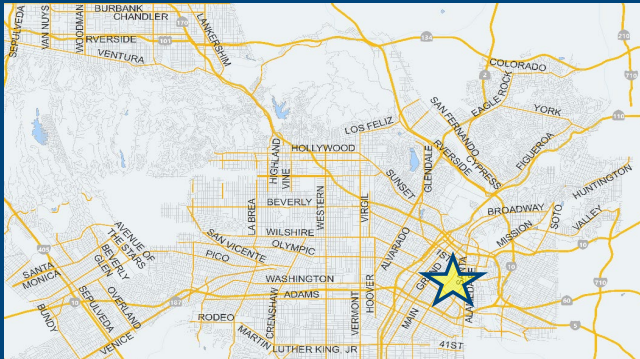
# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



*Project Screening Criteria: Is this project required to conduct a vehicle miles traveled analysis?*

## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Proposed Project - Commercial  
**Address:** 1100 E 5TH ST, 90013



**Is the project replacing an existing number of residential units with a smaller number of residential units AND is located within one-half mile of a fixed-rail or fixed-guideway transit station?**

Yes  No

## Existing Land Use

Land Use Type	Value	Unit
Industrial   Light Industrial	35.445	ksf
Industrial   Light Industrial	35.445	ksf

Click here to add a single custom land use type (will be included in the above list)

## Proposed Project Land Use

Land Use Type	Value	Unit
Retail   High-Turnover Sit-Down Restaurant	19.235	ksf
Retail   General Retail	10.736	ksf
Retail   High-Turnover Sit-Down Restaurant	19.235	ksf

Click here to add a single custom land use type (will be included in the above list)

## Project Screening Summary

Existing Land Use	Proposed Project
<b>185</b> Daily Vehicle Trips	<b>2,153</b> Daily Vehicle Trips
<b>1,282</b> Daily VMT	<b>14,316</b> Daily VMT

### Tier 1 Screening Criteria

Project will have less residential units compared to existing residential units & is within one-half mile of a fixed-rail station.

### Tier 2 Screening Criteria

The net increase in daily trips < 250 trips **1,968**  
Net Daily Trips

The net increase in daily VMT ≤ 0 **13,034**  
Net Daily VMT

The proposed project consists of only retail land uses ≤ 50,000 square feet total. **29,971**  
ksf

**The proposed project is not required to perform VMT analysis.**

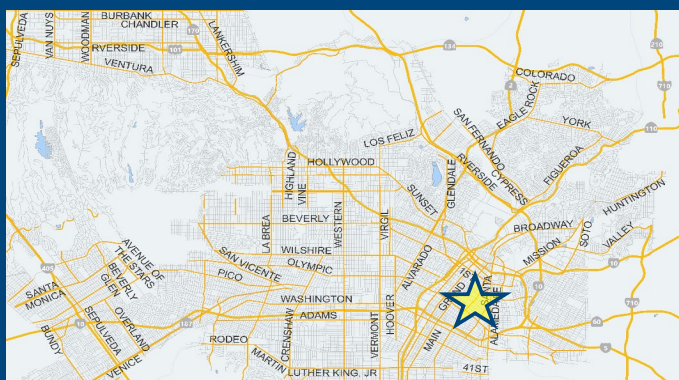


# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Proposed Project - Commercial  
**Address:** 1100 E 5TH ST, 90013



### Proposed Project Land Use Type Value Unit

Proposed Project Land Use Type	Value	Unit
Retail   General Retail	10.736	ksf
Retail   High-Turnover Sit-Down Restaurant	19.235	ksf

## TDM Strategies

Select each section to show individual strategies  
 Use  to denote if the TDM strategy is part of the proposed project or is a mitigation strategy

**Max Home Based TDM Achieved?** Proposed Project  No With Mitigation  No  
**Max Work Based TDM Achieved?** Proposed Project  No With Mitigation  No

### A Parking

Proposed Prj  Mitigation

**Reduce Parking Supply**  city code parking provision for the project site  
 actual parking provision for the project site

**Unbundle Parking**  Proposed Prj  Mitigation  monthly parking cost (dollar) for the project site

**Parking Cash-Out**  Proposed Prj  Mitigation  percent of employees eligible

**Price Workplace Parking**  Proposed Prj  Mitigation  daily parking charge (dollar)  
 percent of employees subject to priced parking

**Residential Area Parking**  Proposed Prj  Mitigation  cost (dollar) of annual permit

- B Transit**
- C Education & Encouragement**
- D Commute Trip Reductions**
- E Shared Mobility**
- F Bicycle Infrastructure**
- G Neighborhood Enhancement**

## Analysis Results

Proposed Project	With Mitigation
<b>2,153</b> Daily Vehicle Trips	<b>2,153</b> Daily Vehicle Trips
<b>14,316</b> Daily VMT	<b>14,316</b> Daily VMT
<b>N/A</b> Household VMT per Capita	<b>N/A</b> Household VMT per Capita
<b>N/A</b> Work VMT per Employee	<b>N/A</b> Work VMT per Employee
Significant VMT Impact?	
<b>Household: N/A</b> Threshold = 6.0 15% Below APC	<b>Household: N/A</b> Threshold = 6.0 15% Below APC
<b>Work: N/A</b> Threshold = 7.6 15% Below APC	<b>Work: N/A</b> Threshold = 7.6 15% Below APC



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

Project Information			
Land Use Type		Value	Units
Housing	Single Family	0	DU
	Multi Family	0	DU
	Townhouse	0	DU
	Hotel	0	Rooms
	Motel	0	Rooms
Affordable Housing	Family	0	DU
	Senior	0	DU
	Special Needs	0	DU
	Permanent Supportive	0	DU
Retail	General Retail	10.736	ksf
	Furniture Store	0.000	ksf
	Pharmacy/Drugstore	0.000	ksf
	Supermarket	0.000	ksf
	Bank	0.000	ksf
	Health Club	0.000	ksf
	High-Turnover Sit-Down Restaurant	19.235	ksf
	Fast-Food Restaurant	0.000	ksf
	Quality Restaurant	0.000	ksf
	Auto Repair	0.000	ksf
	Home Improvement	0.000	ksf
	Free-Standing Discount	0.000	ksf
	Movie Theater	0	Seats
	Office	General Office	0.000
Medical Office		0.000	ksf
Industrial	Light Industrial	0.000	ksf
	Manufacturing	0.000	ksf
	Warehousing/Self-Storage	0.000	ksf
School	University	0	Students
	High School	0	Students
	Middle School	0	Students
	Elementary	0	Students
	Private School (K-12)	0	Students
Other		0	Trips

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

<b>Analysis Results</b>			
Total Employees: 98			
Total Population: 0			
<b>Proposed Project</b>		<b>With Mitigation</b>	
2,153	Daily Vehicle Trips	2,153	Daily Vehicle Trips
14,316	Daily VMT	14,316	Daily VMT
N/A	Household VMT per Capita	N/A	Household VMT per Capita
N/A	Work VMT per Employee	N/A	Work VMT per Employee
<b>Significant VMT Impact?</b>			
<b>APC: Central</b>			
Impact Threshold: 15% Below APC Average			
Household = 6.0			
Work = 7.6			
<b>Proposed Project</b>		<b>With Mitigation</b>	
VMT Threshold	Impact	VMT Threshold	Impact
Household > 6.0	N/A	Household > 6.0	N/A
Work > 7.6	N/A	Work > 7.6	N/A

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Parking</b>	<i>Reduce parking supply</i>	<i>City code parking provision (spaces)</i>	0	0
		<i>Actual parking provision (spaces)</i>	0	0
	<i>Unbundle parking</i>	<i>Monthly cost for parking (\$)</i>	\$0	\$0
	<i>Parking cash-out</i>	<i>Employees eligible (%)</i>	0%	0%
	<i>Price workplace parking</i>	<i>Daily parking charge (\$)</i>	\$0.00	\$0.00
		<i>Employees subject to priced parking (%)</i>	0%	0%
	<i>Residential area parking permits</i>	<i>Cost of annual permit (\$)</i>	\$0	\$0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Transit</b>	<i>Reduce transit headways</i>	<i>Reduction in headways (increase in frequency) (%)</i>	0%	
		<i>Existing transit mode share (as a percent of total daily trips) (%)</i>	0%	
		<i>Lines within project site improved (&lt;50%, &gt;=50%)</i>	0	
	<i>Implement neighborhood shuttle</i>	<i>Degree of implementation (low, medium, high)</i>	0	0
		<i>Employees and residents eligible (%)</i>	0%	0%
	<i>Transit subsidies</i>	<i>Employees and residents eligible (%)</i>	0%	0%
<i>Amount of transit subsidy per passenger (daily equivalent) (\$)</i>		\$0.00	\$0.00	
<b>Education &amp; Encouragement</b>	<i>Voluntary travel behavior change program</i>	<i>Employees and residents participating (%)</i>	0%	
	<i>Promotions and marketing</i>	<i>Employees and residents participating (%)</i>	0%	
(cont. on following page)				



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Commuter Trip Reductions</b>	<i>Required commute trip reduction program</i>	<i>Employees participating (%)</i>	0%	0%
	<i>Alternative Work Schedules and Telecommute</i>	<i>Employees participating (%)</i>	0%	0%
		<i>Type of program</i>	0	0
		<i>Degree of implementation (low, medium, high)</i>	0	0
	<i>Employer sponsored vanpool or shuttle</i>	<i>Employees eligible (%)</i>	0%	0%
		<i>Employer size (small, medium, large)</i>	0	0
	<i>Ride-share program</i>	<i>Employees eligible (%)</i>	0%	0%
<b>Shared Mobility</b>	<i>Car share</i>	<i>Car share project setting (Urban, Suburban, All Other)</i>	0	0
	<i>Bike share</i>	<i>Within 600 feet of existing bike share station - OR- implementing new bike share station (Yes/No)</i>	0	0
	<i>School carpool program</i>	<i>Level of implementation (Low, Medium, High)</i>	0	0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.			
Strategy Type	Description	Proposed Project	Mitigations
<b>Bicycle Infrastructure</b>	<i>Implement/Improve on-street bicycle facility</i>	<i>Provide bicycle facility along site (Yes/No)</i>	<i>0</i>
	<i>Include Bike parking per LAMC</i>	<i>Meets City Bike Parking Code (Yes/No)</i>	<i>0</i>
	<i>Include secure bike parking and showers</i>	<i>Includes indoor bike parking/lockers, showers, &amp; repair station (Yes/No)</i>	<i>0</i>
<b>Neighborhood Enhancement</b>	<i>Traffic calming improvements</i>	<i>Streets with traffic calming improvements (%)</i>	<i>0%</i>
		<i>Intersections with traffic calming improvements (%)</i>	<i>0%</i>
	<i>Pedestrian network improvements</i>	<i>Included (within project and connecting off-site/within project only)</i>	<i>0</i>

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Adjustments by Trip Purpose & Strategy														
Place type: Suburban Center														
		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
<b>Parking</b>	Reduce parking supply	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Parking sections 1 - 5
	Unbundle parking	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Parking cash-out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Price workplace parking	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Residential area parking permits	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Transit</b>	Reduce transit headways	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Transit sections 1 - 3
	Implement neighborhood shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Transit subsidies	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Education &amp; Encouragement</b>	Voluntary travel behavior change program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Education & Encouragement sections 1 - 2
	Promotions and marketing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Commute Trip Reductions</b>	Required commute trip reduction program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Commute Trip Reductions sections 1 - 4
	Alternative Work Schedules and Telecommute Program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Employer sponsored vanpool or shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Ride-share program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Shared Mobility</b>	Car-share	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Shared Mobility sections 1 - 3
	Bike share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	School carpool program	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### TDM Adjustments by Trip Purpose & Strategy, Cont.

Place type: Suburban Center

		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
		<b>Bicycle Infrastructure</b>	Implement/ Improve on-street bicycle facility	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Include Bike parking per LAMC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Include secure bike parking and showers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<b>Neighborhood Enhancement</b>	Traffic calming improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Neighborhood Enhancement
	Pedestrian network improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

### Final Combined & Maximum TDM Effect

	Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction	
	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated
	<b>COMBINED TOTAL</b>	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>MAX. TDM EFFECT</b>	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

$$= \text{Minimum}(X\%, 1 - [(1-A) * (1-B) \dots])$$

where X%=

<b>PLACE</b>	urban	75%
<b>TYPE</b>	compact infill	40%
<b>MAX:</b>	suburban center	20%
	suburban	15%

Note:  $(1 - [(1-A) * (1-B) \dots])$  reflects the dampened combined effectiveness of TDM Strategies (e.g., A, B, ...). See the TDM Strategy Appendix (*Transportation Assessment Guidelines Attachment G*) for further discussion of dampening.

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 4: MXD Methodology

Date: October 5, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Commercial

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### MXD Methodology - Project Without TDM

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	0	0.0%	0	6.8	0	0
Home Based Other Production	0	0.0%	0	4.5	0	0
Non-Home Based Other Production	643	-5.1%	610	7.4	4,758	4,514
Home-Based Work Attraction	143	-29.4%	101	8.2	1,173	828
Home-Based Other Attraction	1,476	-43.6%	832	5.8	8,561	4,826
Non-Home Based Other Attraction	643	-5.1%	610	6.8	4,372	4,148

### MXD Methodology with TDM Measures

	<i>Proposed Project</i>			<i>Project with Mitigation Measures</i>		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	0.0%	0	0	0.0%	0	0
Home Based Other Production	0.0%	0	0	0.0%	0	0
Non-Home Based Other Production	0.0%	610	4,514	0.0%	610	4,514
Home-Based Work Attraction	0.0%	101	828	0.0%	101	828
Home-Based Other Attraction	0.0%	832	4,826	0.0%	832	4,826
Non-Home Based Other Attraction	0.0%	610	4,148	0.0%	610	4,148

### MXD VMT Methodology Per Capita & Per Employee

Total Population: 0

Total Employees: 98

APC: Central

	<i>Proposed Project</i>	<i>Project with Mitigation Measures</i>
<i>Total Home Based Production VMT</i>	<b>0</b>	<b>0</b>
<i>Total Home Based Work Attraction VMT</i>	<b>828</b>	<b>828</b>
<i>Total Home Based VMT Per Capita</i>	<b>N/A</b>	<b>N/A</b>
<i>Total Work Based VMT Per Employee</i>	<b>N/A</b>	<b>N/A</b>

## VMT Calculator User Agreement

The Los Angeles Department of Transportation (LADOT), in partnership with the Department of City Planning and Fehr & Peers, has developed the City of Los Angeles Vehicle Miles Traveled (VMT) Calculator to estimate project-specific daily household VMT per capita and daily work VMT per employee for land use development projects. This application, the VMT Calculator, has been provided to You, the User, to assess vehicle miles traveled (VMT) outcomes of land use projects within the City of Los Angeles. The term “City” as used below shall refer to the City of Los Angeles. The terms “City” and “Fehr & Peers” as used below shall include their respective affiliates, subconsultants, employees, and representatives.

The City is pleased to be able to provide this information to the public. The City believes that the public is most effectively served when they are provided access to the technical tools that inform the public review process of private and public land use investments. However, in using the VMT Calculator, You agree to be bound by this VMT Calculator User Agreement (this Agreement).

**VMT Calculator Application for the City of Los Angeles.** The City’s consultant calibrated the VMT Calculator’s parameters in 2018 to estimate travel patterns of locations in the City, and validated those outcomes against empirical data. However, this calibration process is limited to locations within the City, and practitioners applying the VMT Calculator outside of the City boundaries should not apply these estimates without further calibration and validation of travel patterns to verify the VMT Calculator’s accuracy in estimating VMT in such other locations.

**Limited License to Use.** This Agreement gives You a limited, non-transferrable, non-assignable, and non-exclusive license to use and execute a copy of the VMT Calculator on a computer system owned, leased or otherwise controlled by You in Your own facilities, as set out below, provided You do not use the VMT Calculator in an unauthorized manner, and that You do not republish, copy, distribute, reverse-engineer, modify, decompile, disassemble, transfer, or sell any part of the VMT Calculator, and provided that You know and follow the terms of this Agreement. Your failure to follow the terms of this Agreement shall automatically terminate this license and Your right to use the VMT Calculator.

**Ownership.** You understand and acknowledge that the City owns the VMT Calculator, and shall continue to own it through Your use of it, and that no transfer of ownership of any kind is intended in allowing You to use the VMT Calculator.

**Warranty Disclaimer.** In spite of the efforts of the City and Fehr & Peers, some information on the VMT Calculator may not be accurate. The VMT Calculator, OUTPUTS AND ASSOCIATED DATA ARE PROVIDED “as is” WITHOUT WARRANTY OF ANY KIND, whether expressed, implied, statutory, or otherwise including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

**Limitation of Liability.** It is understood that the VMT Calculator is provided without charge. Neither the City nor Fehr & Peers can be responsible or liable for any information derived from its use, or for any delays, inaccuracies, incompleteness, errors or omissions arising out of your use of the VMT Calculator or with respect to the material contained in the VMT Calculator. You understand and agree that Your sole remedy against the City or Fehr & Peers for loss or damage caused by any defect or failure of the


VMT Calculator, regardless of the form of action, whether in contract, tort, including negligence, strict liability or otherwise, shall be the repair or replacement of the VMT Calculator to the extent feasible as determined solely by the City. In no event shall the City or Fehr & Peers be responsible to You or anyone else for, or have liability for any special, indirect, incidental or consequential damages (including, without limitation, damages for loss of business profits or changes to businesses costs) or lost data or downtime, however caused, and on any theory of liability from the use of, or the inability to use, the VMT Calculator, whether the data, and/or formulas contained in the VMT Calculator are provided by the City or Fehr & Peers, or another third party, even if the City or Fehr & Peers have been advised of the possibility of such damages.

This Agreement and License shall be governed by the laws of the State of California without regard to their conflicts of law provisions, and shall be effective as of the date set forth below and, unless terminated in accordance with the above or extended by written amendment to this Agreement, shall terminate on the earlier of the date that You are not making use of the VMT Calculator or one year after the beginning of Your use of the VMT Calculator.

By using the VMT Calculator, You hereby waive and release all claims, responsibilities, liabilities, actions, damages, costs, and losses, known and unknown, against the City and Fehr & Peers for Your use of the VMT Calculator.

Before making decisions using the information provided in this application, contact City LADOT staff to confirm the validity of the data provided.

Print and sign below, and submit to LADOT along with the transportation assessment Memorandum of Understanding (MOU).

You, the User	
By:	<u></u>
Print Name:	<u>Amrita Shankar</u>
Title:	<u>Transportation Engineer I</u>
Company:	<u>Linscott, Law, &amp; Greenspan, Engineers</u>
Address:	<u>20931 Burbank Boulevard, Suite C</u> <u>Woodland Hills, CA 91367</u>
Phone:	<u>818.835.8648</u>
Email Address:	<u>shankar@llgengineers.com</u>
Date:	<u>10/05/2020</u>

**APPENDIX C**  
**VMT CALCULATOR OUTPUT**  
**ALTERNATIVE 4**



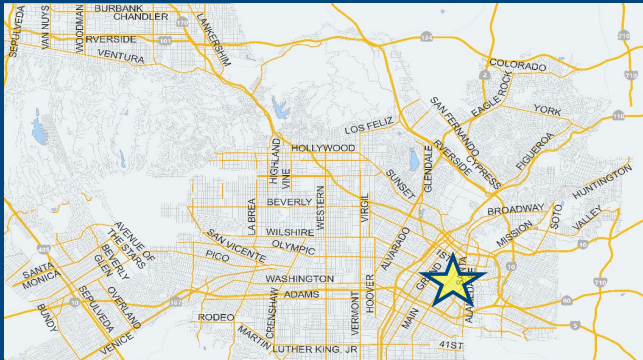
# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



*Project Screening Criteria: Is this project required to conduct a vehicle miles traveled analysis?*

## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Proposed Project - Industrial Use  
**Address:** 1100 E 5TH ST, 90013



**Is the project replacing an existing number of residential units with a smaller number of residential units AND is located within one-half mile of a fixed-rail or fixed-guideway transit station?**

Yes  No

## Existing Land Use

Land Use Type	Value	Unit
Industrial   Light Industrial	35.445	ksf
Industrial   Light Industrial	35.445	ksf

Click here to add a single custom land use type (will be included in the above list)

## Proposed Project Land Use

Land Use Type	Value	Unit
Industrial   Light Industrial	81.014	ksf
Industrial   Light Industrial	81.014	ksf

Click here to add a single custom land use type (will be included in the above list)

## Project Screening Summary

Existing Land Use	Proposed Project
<b>185</b> Daily Vehicle Trips	<b>422</b> Daily Vehicle Trips
<b>1,282</b> Daily VMT	<b>2,922</b> Daily VMT

### Tier 1 Screening Criteria

Project will have less residential units compared to existing residential units & is within one-half mile of a fixed-rail station.

### Tier 2 Screening Criteria

The net increase in daily trips < 250 trips **237**  
Net Daily Trips

The net increase in daily VMT ≤ 0 **1,640**  
Net Daily VMT

The proposed project consists of only retail land uses ≤ 50,000 square feet total. **0.000**  
ksf

**The proposed project is not required to perform VMT analysis.**

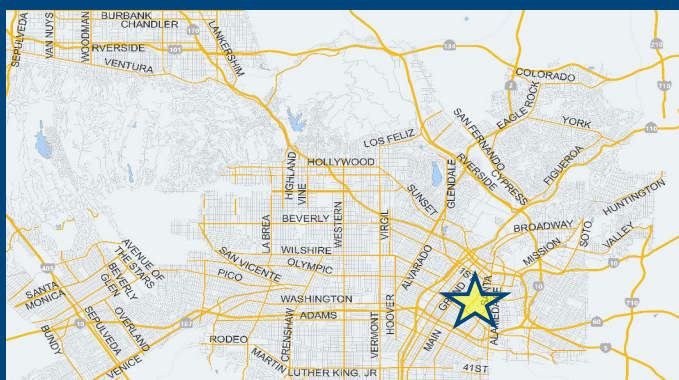


# CITY OF LOS ANGELES VMT CALCULATOR Version 1.3



## Project Information

**Project:** 1100 E. 5th Street  
**Scenario:** Proposed Project - Industrial Use  
**Address:** 1100 E 5TH ST, 90013



Proposed Project Land Use Type	Value	Unit
Industrial   Light Industrial	81.014	ksf

## TDM Strategies

Select each section to show individual strategies  
 Use  to denote if the TDM strategy is part of the proposed project or is a mitigation strategy

**Max Home Based TDM Achieved?** Proposed Project  No With Mitigation  No  
**Max Work Based TDM Achieved?** Proposed Project  No With Mitigation  No

**A Parking**

**Reduce Parking Supply**

Proposed Prj  Mitigation

city code parking provision for the project site:   
 actual parking provision for the project site:

**Unbundle Parking**

Proposed Prj  Mitigation

monthly parking cost (dollar) for the project site:

**Parking Cash-Out**

Proposed Prj  Mitigation

percent of employees eligible:

**Price Workplace Parking**

Proposed Prj  Mitigation

daily parking charge (dollar):   
 percent of employees subject to priced parking:

**Residential Area Parking**

Proposed Prj  Mitigation

permits:     
 cost (dollar) of annual permit:

- B** Transit
- C** Education & Encouragement
- D** Commute Trip Reductions
- E** Shared Mobility
- F** Bicycle Infrastructure
- G** Neighborhood Enhancement

## Analysis Results

Proposed Project	With Mitigation
<b>422</b> Daily Vehicle Trips	<b>422</b> Daily Vehicle Trips
<b>2,922</b> Daily VMT	<b>2,922</b> Daily VMT
<b>N/A</b> Household VMT per Capita	<b>N/A</b> Household VMT per Capita
<b>N/A</b> Work VMT per Employee	<b>N/A</b> Work VMT per Employee
Significant VMT Impact?	
<b>Household: N/A</b> Threshold = 6.0 15% Below APC	<b>Household: N/A</b> Threshold = 6.0 15% Below APC
<b>Work: N/A</b> Threshold = 7.6 15% Below APC	<b>Work: N/A</b> Threshold = 7.6 15% Below APC



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

Project Information			
Land Use Type		Value	Units
Housing	Single Family	0	DU
	Multi Family	0	DU
	Townhouse	0	DU
	Hotel	0	Rooms
	Motel	0	Rooms
Affordable Housing	Family	0	DU
	Senior	0	DU
	Special Needs	0	DU
	Permanent Supportive	0	DU
Retail	General Retail	0.000	ksf
	Furniture Store	0.000	ksf
	Pharmacy/Drugstore	0.000	ksf
	Supermarket	0.000	ksf
	Bank	0.000	ksf
	Health Club	0.000	ksf
	High-Turnover Sit-Down Restaurant	0.000	ksf
	Fast-Food Restaurant	0.000	ksf
	Quality Restaurant	0.000	ksf
	Auto Repair	0.000	ksf
	Home Improvement	0.000	ksf
	Free-Standing Discount	0.000	ksf
	Movie Theater	0	Seats
	Office	General Office	0.000
Medical Office		0.000	ksf
Industrial	Light Industrial	81.014	ksf
	Manufacturing	0.000	ksf
	Warehousing/Self-Storage	0.000	ksf
School	University	0	Students
	High School	0	Students
	Middle School	0	Students
	Elementary	0	Students
	Private School (K-12)	0	Students
Other		0	Trips

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 1: Project & Analysis Overview

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

<b>Analysis Results</b>			
Total Employees: 81			
Total Population: 0			
<b>Proposed Project</b>		<b>With Mitigation</b>	
422	Daily Vehicle Trips	422	Daily Vehicle Trips
2,922	Daily VMT	2,922	Daily VMT
N/A	Household VMT per Capita	N/A	Household VMT per Capita
N/A	Work VMT per Employee	N/A	Work VMT per Employee
<b>Significant VMT Impact?</b>			
<b>APC: Central</b>			
Impact Threshold: 15% Below APC Average			
Household = 6.0			
Work = 7.6			
<b>Proposed Project</b>		<b>With Mitigation</b>	
VMT Threshold	Impact	VMT Threshold	Impact
Household > 6.0	N/A	Household > 6.0	N/A
Work > 7.6	N/A	Work > 7.6	N/A

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Parking</b>	<i>Reduce parking supply</i>	<i>City code parking provision (spaces)</i>	0	0
		<i>Actual parking provision (spaces)</i>	0	0
	<i>Unbundle parking</i>	<i>Monthly cost for parking (\$)</i>	\$0	\$0
	<i>Parking cash-out</i>	<i>Employees eligible (%)</i>	0%	0%
	<i>Price workplace parking</i>	<i>Daily parking charge (\$)</i>	\$0.00	\$0.00
		<i>Employees subject to priced parking (%)</i>	0%	0%
	<i>Residential area parking permits</i>	<i>Cost of annual permit (\$)</i>	\$0	\$0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type	Description	Proposed Project	Mitigations	
<b>Transit</b>	<i>Reduce transit headways</i>	<i>Reduction in headways (increase in frequency) (%)</i>	0%	
		<i>Existing transit mode share (as a percent of total daily trips) (%)</i>	0%	
		<i>Lines within project site improved (&lt;50%, &gt;=50%)</i>	0	
	<i>Implement neighborhood shuttle</i>	<i>Degree of implementation (low, medium, high)</i>	0	0
		<i>Employees and residents eligible (%)</i>	0%	0%
	<i>Transit subsidies</i>	<i>Employees and residents eligible (%)</i>	0%	0%
<i>Amount of transit subsidy per passenger (daily equivalent) (\$)</i>		\$0.00	\$0.00	
<b>Education &amp; Encouragement</b>	<i>Voluntary travel behavior change program</i>	<i>Employees and residents participating (%)</i>	0%	
	<i>Promotions and marketing</i>	<i>Employees and residents participating (%)</i>	0%	
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.				
Strategy Type		Description	Proposed Project	Mitigations
<b>Commuter Trip Reductions</b>	<i>Required commute trip reduction program</i>	<i>Employees participating (%)</i>	0%	0%
	<i>Alternative Work Schedules and Telecommute</i>	<i>Employees participating (%)</i>	0%	0%
		<i>Type of program</i>	0	0
		<i>Degree of implementation (low, medium, high)</i>	0	0
	<i>Employer sponsored vanpool or shuttle</i>	<i>Employees eligible (%)</i>	0%	0%
		<i>Employer size (small, medium, large)</i>	0	0
	<i>Ride-share program</i>	<i>Employees eligible (%)</i>	0%	0%
<b>Shared Mobility</b>	<i>Car share</i>	<i>Car share project setting (Urban, Suburban, All Other)</i>	0	0
	<i>Bike share</i>	<i>Within 600 feet of existing bike share station - OR- implementing new bike share station (Yes/No)</i>	0	0
	<i>School carpool program</i>	<i>Level of implementation (Low, Medium, High)</i>	0	0
(cont. on following page)				

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 2: TDM Inputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Strategy Inputs, Cont.			
Strategy Type	Description	Proposed Project	Mitigations
<b>Bicycle Infrastructure</b>	<i>Implement/Improve on-street bicycle facility</i>	<i>Provide bicycle facility along site (Yes/No)</i>	<i>0</i>
	<i>Include Bike parking per LAMC</i>	<i>Meets City Bike Parking Code (Yes/No)</i>	<i>0</i>
	<i>Include secure bike parking and showers</i>	<i>Includes indoor bike parking/lockers, showers, &amp; repair station (Yes/No)</i>	<i>0</i>
<b>Neighborhood Enhancement</b>	<i>Traffic calming improvements</i>	<i>Streets with traffic calming improvements (%)</i>	<i>0%</i>
		<i>Intersections with traffic calming improvements (%)</i>	<i>0%</i>
	<i>Pedestrian network improvements</i>	<i>Included (within project and connecting off-site/within project only)</i>	<i>0</i>



# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

TDM Adjustments by Trip Purpose & Strategy														
Place type: Suburban Center														
		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
<b>Parking</b>	Reduce parking supply	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Parking sections 1 - 5
	Unbundle parking	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Parking cash-out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Price workplace parking	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Residential area parking permits	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Transit</b>	Reduce transit headways	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Transit sections 1 - 3
	Implement neighborhood shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Transit subsidies	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Education &amp; Encouragement</b>	Voluntary travel behavior change program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Education & Encouragement sections 1 - 2
	Promotions and marketing	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Commute Trip Reductions</b>	Required commute trip reduction program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	TDM Strategy Appendix, Commute Trip Reductions sections 1 - 4
	Alternative Work Schedules and Telecommute Program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Employer sponsored vanpool or shuttle	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	Ride-share program	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
<b>Shared Mobility</b>	Car-share	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Shared Mobility sections 1 - 3
	Bike share	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	School carpool program	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 3: TDM Outputs

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### TDM Adjustments by Trip Purpose & Strategy, Cont.

Place type: Suburban Center

		Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction		Source
		Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	
		<b>Bicycle Infrastructure</b>	Implement/ Improve on-street bicycle facility	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Include Bike parking per LAMC	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Include secure bike parking and showers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
<b>Neighborhood Enhancement</b>	Traffic calming improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	TDM Strategy Appendix, Neighborhood Enhancement
	Pedestrian network improvements	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

### Final Combined & Maximum TDM Effect

	Home Based Work Production		Home Based Work Attraction		Home Based Other Production		Home Based Other Attraction		Non-Home Based Other Production		Non-Home Based Other Attraction	
	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated	Proposed	Mitigated
	<b>COMBINED TOTAL</b>	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
<b>MAX. TDM EFFECT</b>	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

$$= \text{Minimum}(X\%, 1 - [(1-A) * (1-B)...])$$

where X%=

<b>PLACE</b>	urban	75%
<b>TYPE</b>	compact infill	40%
<b>MAX:</b>	suburban center	20%
	suburban	15%

Note:  $(1 - [(1-A) * (1-B)...])$  reflects the dampened combined effectiveness of TDM Strategies (e.g., A, B,...). See the TDM Strategy Appendix (*Transportation Assessment Guidelines Attachment G*) for further discussion of dampening.

# CITY OF LOS ANGELES VMT CALCULATOR

## Report 4: MXD Methodology

Date: September 30, 2020

Project Name: 1100 E. 5th Street

Project Scenario: Proposed Project - Industrial Use

Project Address: 1100 E 5TH ST, 90013



Version 1.3

### MXD Methodology - Project Without TDM

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	0	0.0%	0	6.8	0	0
Home Based Other Production	0	0.0%	0	4.5	0	0
Non-Home Based Other Production	112	-4.5%	107	7.4	829	792
Home-Based Work Attraction	117	-29.9%	82	8.2	959	672
Home-Based Other Attraction	224	-43.3%	127	5.8	1,299	737
Non-Home Based Other Attraction	112	-5.4%	106	6.8	762	721

### MXD Methodology with TDM Measures

	<i>Proposed Project</i>			<i>Project with Mitigation Measures</i>		
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT
Home Based Work Production	0.0%	0	0	0.0%	0	0
Home Based Other Production	0.0%	0	0	0.0%	0	0
Non-Home Based Other Production	0.0%	107	792	0.0%	107	792
Home-Based Work Attraction	0.0%	82	672	0.0%	82	672
Home-Based Other Attraction	0.0%	127	737	0.0%	127	737
Non-Home Based Other Attraction	0.0%	106	721	0.0%	106	721

### MXD VMT Methodology Per Capita & Per Employee

Total Population: 0

Total Employees: 81

APC: Central

	<i>Proposed Project</i>	<i>Project with Mitigation Measures</i>
<i>Total Home Based Production VMT</i>	<b>0</b>	<b>0</b>
<i>Total Home Based Work Attraction VMT</i>	<b>672</b>	<b>672</b>
<i>Total Home Based VMT Per Capita</i>	<b>N/A</b>	<b>N/A</b>
<i>Total Work Based VMT Per Employee</i>	<b>N/A</b>	<b>N/A</b>

## VMT Calculator User Agreement

The Los Angeles Department of Transportation (LADOT), in partnership with the Department of City Planning and Fehr & Peers, has developed the City of Los Angeles Vehicle Miles Traveled (VMT) Calculator to estimate project-specific daily household VMT per capita and daily work VMT per employee for land use development projects. This application, the VMT Calculator, has been provided to You, the User, to assess vehicle miles traveled (VMT) outcomes of land use projects within the City of Los Angeles. The term “City” as used below shall refer to the City of Los Angeles. The terms “City” and “Fehr & Peers” as used below shall include their respective affiliates, subconsultants, employees, and representatives.

The City is pleased to be able to provide this information to the public. The City believes that the public is most effectively served when they are provided access to the technical tools that inform the public review process of private and public land use investments. However, in using the VMT Calculator, You agree to be bound by this VMT Calculator User Agreement (this Agreement).

**VMT Calculator Application for the City of Los Angeles.** The City’s consultant calibrated the VMT Calculator’s parameters in 2018 to estimate travel patterns of locations in the City, and validated those outcomes against empirical data. However, this calibration process is limited to locations within the City, and practitioners applying the VMT Calculator outside of the City boundaries should not apply these estimates without further calibration and validation of travel patterns to verify the VMT Calculator’s accuracy in estimating VMT in such other locations.

**Limited License to Use.** This Agreement gives You a limited, non-transferrable, non-assignable, and non-exclusive license to use and execute a copy of the VMT Calculator on a computer system owned, leased or otherwise controlled by You in Your own facilities, as set out below, provided You do not use the VMT Calculator in an unauthorized manner, and that You do not republish, copy, distribute, reverse-engineer, modify, decompile, disassemble, transfer, or sell any part of the VMT Calculator, and provided that You know and follow the terms of this Agreement. Your failure to follow the terms of this Agreement shall automatically terminate this license and Your right to use the VMT Calculator.

**Ownership.** You understand and acknowledge that the City owns the VMT Calculator, and shall continue to own it through Your use of it, and that no transfer of ownership of any kind is intended in allowing You to use the VMT Calculator.

**Warranty Disclaimer.** In spite of the efforts of the City and Fehr & Peers, some information on the VMT Calculator may not be accurate. The VMT Calculator, OUTPUTS AND ASSOCIATED DATA ARE PROVIDED “as is” WITHOUT WARRANTY OF ANY KIND, whether expressed, implied, statutory, or otherwise including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

**Limitation of Liability.** It is understood that the VMT Calculator is provided without charge. Neither the City nor Fehr & Peers can be responsible or liable for any information derived from its use, or for any delays, inaccuracies, incompleteness, errors or omissions arising out of your use of the VMT Calculator or with respect to the material contained in the VMT Calculator. You understand and agree that Your sole remedy against the City or Fehr & Peers for loss or damage caused by any defect or failure of the


VMT Calculator, regardless of the form of action, whether in contract, tort, including negligence, strict liability or otherwise, shall be the repair or replacement of the VMT Calculator to the extent feasible as determined solely by the City. In no event shall the City or Fehr & Peers be responsible to You or anyone else for, or have liability for any special, indirect, incidental or consequential damages (including, without limitation, damages for loss of business profits or changes to businesses costs) or lost data or downtime, however caused, and on any theory of liability from the use of, or the inability to use, the VMT Calculator, whether the data, and/or formulas contained in the VMT Calculator are provided by the City or Fehr & Peers, or another third party, even if the City or Fehr & Peers have been advised of the possibility of such damages.

This Agreement and License shall be governed by the laws of the State of California without regard to their conflicts of law provisions, and shall be effective as of the date set forth below and, unless terminated in accordance with the above or extended by written amendment to this Agreement, shall terminate on the earlier of the date that You are not making use of the VMT Calculator or one year after the beginning of Your use of the VMT Calculator.

By using the VMT Calculator, You hereby waive and release all claims, responsibilities, liabilities, actions, damages, costs, and losses, known and unknown, against the City and Fehr & Peers for Your use of the VMT Calculator.

Before making decisions using the information provided in this application, contact City LADOT staff to confirm the validity of the data provided.

Print and sign below, and submit to LADOT along with the transportation assessment Memorandum of Understanding (MOU).

You, the User	
By:	<u></u>
Print Name:	<u>Amrita Shankar</u>
Title:	<u>Transportation Engineer I</u>
Company:	<u>Linscott, Law, &amp; Greenspan, Engineers</u>
Address:	<u>20931 Burbank Boulevard, Suite C</u> <u>Woodland Hills, CA 91367</u>
Phone:	<u>818.835.8648</u>
Email Address:	<u>shankar@llgengineers.com</u>
Date:	<u>09/30/2020</u>