

# City of Palo Alto City Council Staff Report

(ID # 8435)

Report Type: Action Items Meeting Date: 5/7/2018

Summary Title: Transportation Impact Fee Nexus Study and Fee Adoption

Title: PUBLIC HEARING: Finance Committee Recommends Adoption of an Ordinance Amending Title 16 of the Palo Alto Municipal Code by Establishing an Updated Citywide Transportation Impact Fee and Indefinitely Suspending Application of the Existing Area-specific Transportation Impact Fees for the Stanford Research Park/El Camino Real CS Zone and the San Antonio/West Bayshore Area, and Amending the Municipal Fee Schedule to Update the City's Transportation Impact Fees in Accordance With These Changes, all in Furtherance of Implementation of the Comprehensive Plan. The Citywide Transportation Impact Fee is a One-time fee on new Development and Redevelopment Throughout Palo Alto to Fund Transportation Improvements to Accommodate and Mitigate the Impacts of Future Development in the City. This Ordinance is Within the Scope of the Comprehensive Plan Environmental Impact Report (EIR) Certified and Adopted on November 13, 2017 by Council Resolution No. 9720

From: City Manager

**Lead Department: Planning and Community Environment** 

#### Recommendation

Staff recommends that the City Council conduct a public hearing, accept the Draft Transportation Impact Fee Nexus Study included as Attachment B ("Nexus Study"), and adopt the Ordinance in Attachment A, modifying and increasing the Citywide Transportation Impact Fee based on the Nexus Study, suspending collection of two area-specific transportation impact fees and amending the Municipal Fee Schedule to reflect these changes, and finding the Ordinance within the scope of the Comprehensive Plan Environmental Impact Report (EIR) certified and adopted on November 13, 2017 by Council Resolution No. 9720.

Note: the Finance Committee reviewed the Draft Transportation Impact Fee Nexus Study on February 6, 2018 and recommended preparation and adoption of an ordinance with the

components included in the attached draft ordinance. Action minutes of the Finance Committee meeting are here: <a href="https://www.cityofpaloalto.org/civicax/filebank/documents/63672">https://www.cityofpaloalto.org/civicax/filebank/documents/63672</a>.

#### **Executive Summary**

State law allows the City to charge transportation impact fees to new development based on that development's contribution to the need for capital improvements designed to reduce motor vehicle trips, or to address traffic congestion and other impacts of new motor vehicle trips.

The recently adopted Comprehensive Plan calls for an update to the City's transportation impact fee program. The draft nexus study, included as Attachment B, provides the information required to accomplish this task. Specifically, the draft nexus study reviews the City's current traffic impact fees, development projected to occur during the life of the Comprehensive Plan (i.e. by 2030), and anticipated capital improvements that will be needed during the same timeframe.

Based on this information, the study recommends increasing the citywide transportation impact fee charged to new development based on the number of peak hour vehicle trips that are anticipated after implementation of enforceable transportation demand management (TDM) plans. The recommended fee is \$8,083 per net new peak hour trip, which is more than double the current citywide fee. At the same time, the study also recommends elimination of two area-specific transportation impact fees that are charged in the San Antonio and Stanford Research Park areas.

Operationally, adoption of the ordinance will mean that most new development will be subject to one fee, rather than multiple fees, and that fee will be reduced to reflect direct investments in trip reduction via TDM plans. For example, the new requirement for TDM plans in the California Avenue Area in Comprehensive Plan Program T1.2.2 (and EIR mitigation measure Trans 1a) is to achieve a 35% reduction below motor-vehicle trip-generation rates established by the Institute of Traffic Engineers (ITE). Therefore, new development will have to provide an enforceable plan to meet this requirement *and* pay a fee of \$8,083 for each remaining peak hour trip.

Based on input from the Finance Committee, the draft ordinance in Attachment A would not only increase the Citywide fee on a per-trip basis, referencing the quantitative TDM goals in the Comprehensive Plan and transitioning away from district-specific fees, but also reduce the types of projects that would be exempt from the payment of the updated impact fee. The ordinance also references the TDM plan requirements included in Comprehensive Plan Program T1.2.2. Staff will be bringing forward a separate ordinance to codify these requirements in Title 18 (the zoning code). See the Next Steps section below for more explanation.

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#### **Background & Discussion**

Impact fees are established based on the reasonable relationship (i.e. nexus) between the impacts caused by new development and the improvements to mitigate those impacts that will be funded by the fee.

#### **Existing Transportation Impact Fees**

As shown in Table 1 below, the City currently charges one or more transportation impact fees for new development based on location. Exemptions are provided for the following uses: single family home remodels or additions; 100% affordable housing projects; below market rate housing units provided in excess of the number required by ordinance; public buildings and schools; retail, personal service, or automotive service uses that are 1,500 sq. ft. or smaller; daycare, nursery schools and preschools, on-site cafeteria/recreation/child care for employees only; and hazardous materials storage. (See Table 3.)

All existing transportation impact fees were adopted some time ago and have generated significant funding for transportation improvements over the years. The amount generated annually depends on the amount and location of development approved. Please see the summary in Attachment B for more information.

Table 1. Summary of Existing Transportation Impact Fees in Palo Alto

Area	Date Established	Current Fee Amount (1)	Approximate Funds Generated (2)(5)
Citywide	2007	\$3,575.00 per PM peak hour trip	\$5 million
San Antonio/West Bayshore	1986	\$2.56/ft(3)	\$0.3 million
Stanford Research Park/ El Camino Real CS Zone	1989	\$12.42/ft(3)	\$4.5 million
Charleston – Arastradero Corridor Pedestrian and Bicycle Safety	2005	\$0.38/ft \$1,306/du (4)	\$1 million

- (1) FY2018 Municipal Fee Schedule
- (2) Administrative Services Department, amounts are total fees paid from inception
- (3) Residential uses are exempt
- (4) Commercial development is charged per square foot; residential development is charged per unit.
- (5) Fund balances shown in Attachment B include accrued interest and investment income

With the proposed ordinance, the City would cease collecting the San Antonio/West Bayshore area-specific fee. Most of the development anticipated in the San Antonio/West Bayshore area at the time the fee was established in 1986 has occurred, and while not all of the original projects envisioned for funding have been pursued by the City, remaining funds will be programmed for alternative improvements in the area, subject to a nexus analysis/finding and City Council approval.

With the proposed ordinance, the City would also cease collecting the Stanford Research Park/El Camino Real CS Zone fee established in 1989. Two of the projects envisioned for funding have been completed and two are in process.

The proposed ordinance would leave in place the Charleston-Arastradero Corridor fee established in 2005 because the improvements envisioned for funding have not been completed yet.

#### Comprehensive Plan Changes

The Comprehensive Plan, adopted in November 2017, includes an implementation program (Program T1.2.2) calling for a formal process for adopting and monitoring transportation demand management (TDM) plans for new developments and to pay a transportation impact fee (TIF) "for all those peak hour motor vehicle trips that cannot be reduced via TDM measures." Consistent with State law, the plan anticipated that all impact fees collected would be used for capital improvements aimed at reducing motor vehicle trips and traffic congestion.

Comprehensive Plan Program T1.25.1 reiterated that "Modifications to the impact fee program should be structured in keeping with the City's desire to require new development to reduce peak-hour motor vehicle trips to the extent feasible through TDM plans and by contributions to the provision of transit services, shuttles, carpool/rideshare incentives, and similar programs."

Over the life of the Comprehensive Plan (i.e. to 2030), the Final Environmental Impact Report (EIR), certified on November 13, 2017, anticipated development of 3,545 to 4,420 new dwelling units, and 9,850 to 11,500 new jobs (including jobs associated with the Stanford University Medical Center). These assumptions form the basis for the transportation impact fee calculations in Attachment B, despite the fact that some of the new dwelling units are likely to be exempt from the fee (because they will be in affordable housing projects) and that many of the jobs will result from already approved development (i.e. SUMC), and may occur within existing building space. This is because State law allows the City to charge transportation impact fees to new development based on that development's proportional "fair-share" contribution to the impact and required remedy (improvement). The City would need to fund or identify other funding for the portion attributable to vehicle trips from exempt projects as

well as existing development.

#### **Nexus Study Methodology**

State law requires agencies to identify a reasonable relationship (or nexus) between an impact fee and new development, and to make findings regarding (a) the purpose of the fee; (b) what mitigation projects the fee will be used to fund; (c) the nexus between the needed mitigation projects and the type of development that will be charged a fee; and (d) the nexus between the amount of the fee and the cost of the needed mitigation. The draft study in Attachment B is designed to support these findings and is structured as shown below:

Table 2. Summary of Nexus Study Methodology

Step 1	Project Future Growth by 2030
	(based on the Comprehensive Plan Update Final EIR)
Step 2	Estimate Total & Net New PM Peak Hour Vehicle Trips
	(based on the Comprehensive Plan Update Final EIR, the 2,855 net new PM
	Peak Hour trips represent 5.7% of the total PM Peak Hour trips)
Step 3	Identify Impacts or Deficiencies Caused by the Additional Trips
	(based on the Comprehensive Plan Update Final EIR)
Step 4 & 5	Identify Projects that Would Mitigate Impacts or Deficiencies and their Cost
	(See List of Capital Improvements, Attachment B, Table 8.)
Step 6	Calculate the Base Fee to be Charged Per PM Vehicle Trip
	(5.7% of total costs = \$23,075,783; divided by 2,855 trips = \$8,083)

Source: Planning & Community Environment, January 2018

Similar to existing Citywide transportation impact fees, the new fees would be applied to projects based on the *net new PM Peak hour trips* that would be generated, which are calculated by applying trip generation rates provided in the ITE Manual to the proposed land use(s).<sup>1</sup>

#### Proposed Fee Exemptions

With the proposed ordinance, a few selected uses would be exempted as shown in Table 3 below.

Table 3. List of Exemptions: Existing & Proposed

Existing Exemptions	Proposed Exemptions
Single family home remodels or additions	Single family home remodels or additions(1)
100% affordable housing projects	100% affordable housing projects(2)

<sup>&</sup>lt;sup>1</sup> The ITE Manual is professional guidance provided by the Institute of Transportation Engineers.

Existing Exemptions	Proposed Exemptions
Below market rate housing units provided in excess of the number required by ordinance	Below market rate housing units(2)
Public buildings and schools	
Retail, personal service, or automotive service uses that are 1,500 sq. ft. or smaller	50% of new retail trips(3)
Daycare, nursery schools and preschools	Daycare uses(4)
On-site cafeteria/recreation/child care for employees only	
Hazardous materials storage	

#### Notes:

- (1) While not recommended as an exemption by the Finance Committee, this existing exemption would be perpetuated by the proposed ordinance, which would charge a fee only when the proposed project would increase the number of PM Peak Hour trips. Single family home remodels and additions are not considered trip generating unless the result is a net new dwelling unit.
- (2) Exemption as describe in the Housing Element (page 113).
- (3) The Finance Committee recommended applying the fee to 50% of new retail trips in recognition of the desire for retail and the high rate of trip generation.
- (4) The Finance Committee recommended exempting daycare, but not other uses listed here.

Source: Planning & Community Environment, February 2018

The exemptions in Table 3 and the attached ordinance reflect the recommendation of the Finance Committee except where noted above.

Staff requests careful consideration of the Finance Committee recommendation to modify the list of existing exemptions. The existing exemptions currently apply consistently to all of the City's impact fees<sup>2</sup> and modifying them as recommended would make the new transportation impact fee complex to implement (increasing the potential for errors) and would increase the cost of City projects.

#### **TDM Plan Requirements**

The proposed ordinance requires fees that would be based on the number of PM Peak Hour trips after a percent reduction based on the location of the project and the applicable TDM

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<sup>&</sup>lt;sup>2</sup> The only exception is the exemption provided to Accessory Dwelling Units for housing impact fees.

requirement (if any), as shown in Table 4.

**Table 4. TDM Requirements** 

District	% Trip Reduction Required (1)			
Downtown	50%			
California Avenue Area	35%			
Stanford Research Park	30%			
El Camino Real Corridor	30%			
Remainder of the City	20%			
Note: (1) Comprehensive Plan Program T1.2.2				

Source: Planning & Community Environment, January 2018

The Comprehensive Plan includes a program about formalizing the City's TDM requirements by ordinance, requiring new developments above a certain size threshold to prepare and implement TDM plans to meet the performance standards in Table 4 above (Program T1.2.2). The program references the need for regular monitoring/reporting and enforcement with meaningful penalties for non-compliance.

Recent changes to the Palo Alto Municipal Code have established clear criteria for when TDM plans are required in the entitlement process and staff is currently working on operationalizing the review, approval, filing, and monitoring of TDM plans, which will enable enforcement of performance goals and the issuance of fines for non-compliance. The relevant code sections adopted in 2017 are included below and the draft ordinance would reference the performance targets from the Comprehensive Plan. (As explained in the Next Steps section below, staff is developing a separate ordinance to codify those requirements in Title 18.)

#### 18.52.030 Basic Parking Regulations

- (i) Transportation Demand Management Plan
- (1) Requirement for TDM Plan: A Transportation Demand Management (TDM) Plan to reduce and manage the number of single-occupant motor vehicle trips generated by the project shall be prepared and submitted by the applicant in the following circumstances:
- A. For all projects that generate 50 or more net new weekday (AM or PM peak hour) or weekend peak hour trips;
- B. For all projects claiming a reduction in net new trips due to proximity to public transit or the implementation of a TDM plan; and
  - C. For all projects requesting a parking reduction.
- (2) The Director shall have the authority to adopt guidelines for preparing TDM plans and when applicable shall coordinate such guidelines with the Transportation Management Association.

#### 18.52.050 Adjustments by the Director

- (d) Transportation Demand Management (TDM)
- (1) A Transportation Demand Management (TDM) program may be (a) proposed by an applicant, or may be (b) required by the director for any project requesting a reduction in parking or generating 50 or more net new weekday (AM or PM peak hour) or weekend peak hour trips, or (c) may be required as CEQA mitigation for identified potential significant parking impacts.
- Where a Transportation Demand Management (TDM) program is proposed or required, the TDM program shall outline parking and/or traffic demand measures to be implemented to reduce parking need and trip generation. The Director shall have the authority to adopt quidelines for preparing TDM plans. Required measures may include, but are not limited to: participation in the Transportation Management Association or similar organization, limiting "assigned" parking to one space per residential unit, providing for transit passes, parking cash-out, enhanced shuttle service (or contributions to extend or enhance existing shuttle service or to create new shared or public shuttle service), car-sharing, traffic-reducing housing, providing priority parking spaces for carpools/vanpools or "green" vehicles (zero emission vehicles, inherently low emission vehicles, or plug-in hybrids, etc.), vehicle charging stations, additional bicycle parking facilities, or other measures to encourage transit use or to reduce parking needs. The program shall be proposed to the satisfaction of the director, shall include proposed performance targets for parking and/or trip reduction and indicate the basis for such estimates, and shall designate a single entity (property owner, homeowners association, etc.) to implement the proposed measures.
- (3) Monitoring reports shall be submitted to the director two years after building occupancy and again every year thereafter, noting the effectiveness of the proposed measures as compared to the initial performance targets, and implementing modifications if necessary to enhance parking and/or trip reductions.
- (4) Where the monitoring reports indicate that performance measures are not met, the director may require program modifications and may impose administrative penalties if identified deficiencies are not addressed within six months.

#### **Examples With & Without the New Fees**

With the proposed ordinance, the City would increase the current Citywide traffic impact fee, sunset two area-specific fees, reduce the number of exemptions, and require applicants of projects generating more than 50 PM Peak Hour trips to invest in trip-reduction (TDM) measures. The end result would be an increase in fees charged to many, but not all projects,



Table 5. Existing & Proposed Transportation Impact Fees (TIF), Examples

Location	Land Use	PM Peak Hour	Existing TIF	Proposed TIF
Location	Land Ose	Trips	(Based on TDM Trip Red	
Cal Ave	50,000 sq.ft.	75 prior to TDM	\$175,175	\$396,067(1)
	Office	49 with TDM		
Downtown	50,000 sq. ft.	75 prior to TDM	\$135,850	\$307,154(2)
	Office	38 with TDM		
Stanford	200,000 sq. ft.	298 prior to TDM	\$1,606,650	\$824,466(3)
Research Park	Office replacing	209 with TDM	(citywide fee plus	
	100,000 sq. ft.	102 after	Stanford Research	
	R&D	subtracting	Park fee)	
		existing trips		
El Camino	80 Units of	50 prior to TDM	\$125,125	\$282,905(3)
Corridor (outside	Market Rate	35 with TDM		
disrict-specific	Multifamily			
TIF areas)	Housing			

#### Notes:

- (1) Requires investment in TDM to reduce PM Peak Hour trips by 35% in addition to payment of the TIF.
- (2) Requires investment in TDM to reduce PM Peak Hour trips by 50% in addition to payment of the TIF.
- (3) Requires investment in TDM to reduce PM Peak Hour trips by 30% in addition to payment of the TIF.

Source: Hexagon Transportation Consultants, Inc., February 2018.

#### Comparison to Other Jurisdictions

Nexus Study Table 9 (page 27) provides a comparison of the proposed fee to surrounding jurisdictions that was completed in mid-2017. This comparison converts the City's fee from a per-trip fee to a fee per dwelling unit or 1,000 square feet of non-residential land use to allow for an apples to apples comparision. An excerpt is provided in Table 6, below.

**Table 6. Comparison to Transportation Impact Fees in Other Jurisdictions** 

Jurisdiction	Fee per Dwelling Unit (Multifamily Market Rate)	Fee per 1,000 sq. ft. of Office	Fee per Hotel Room
Palo Alto – Existing	\$2,217	\$5,327	\$2,145
Palo Alto – Proposed	\$5,011(1)	\$12,043(1)	\$4,850(1)
Menlo Park	\$1,927	\$4,630	\$1,834
San Carlos	\$1,892	\$4,547	\$1,831

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Jurisdiction	Fee per Dwelling	Fee per 1,000 sq. ft.	Fee per Hotel Room
	Unit (Multifamily	of Office	
	Market Rate)		
San Mateo	\$2,101	\$3,135	N/A
Los Altos	\$3,777	\$9,076	N/A
Mountain View – North	N/A	\$23,260	\$2,071
Bayshore	N/A	\$23,200	72,071
Los Gatos	\$6,185	\$10,258	\$7,598
San Jose – North San	\$7,742	\$14,440	4,299
Jose Area	۶۲,742	Ş14,44U	4,233

Notes: (1) This represents the maximum amount based on standard trip rates (for peak hour trips), however the number of trips and therefore the total fee charged to project(s) would be reduced in exchange for investments in TDM. See examples in Table 5.

Source: Transportation Impact Fee Nexus Study, Hexagon Transportation Consultants Inc., September 2017

#### **Public Notice**

Under State law, the City must notify all persons requesting notice of fee increases of the time and place of hearing, while providing a general description of the proposal and the location of staff report (Government Code Section 66016). In keeping with this requirement, a notice was published in the newspaper on April 27, 2018 and again on May 4, 2018. The backup data justifying the fees were available to the public with publication of this staff report 11 days in advance of the hearing on May 7, 2018.

#### **Timeline and Next Steps**

As provided in Section 2.04.330 (a)(3) of the Palo Alto Municipal Code, this ordinance shall become effective 60 days after adoption (on second reading).

Development of an ordinance updating and codifying requirements for TDM plans will be an important next step. Historically, TDM plans have not always been as rigorous or enforceable as they should be, partly because many TDM plans were optional until the 2017 ordinance cited above, and they were not always included as enforceable conditions of approval. The City also does not have a good system for tracking and monitoring adopted plans.

More recently, the City Council and members of the community have asked for and expect quantitative goals (provided in the Comprehensive Plan), meaningful and effective TDM plans, monitoring and enforcement. The code changes adopted in 2017 and cited above began this effort, but there is more to do. Staff is working on a draft ordinance to implement the Comprehensive Plan TDM requirements. The draft ordinance will be provided to the Planning and Transportation Commission for review/recommendation and to the City Council for their

rconsideration later this year. Staff is also preparing the administrative guidelines referenced in Section 18.52.030, and an update to Accela, the City's permit tracking system, to allow for tracking and monitoring of adopted TDM plans. These improvements will also be completed this year.

#### **Resource Impact**

The draft nexus study identifies a list of capital projects that would cost close to \$1 billion in total (\$954.8 million), with the City's share approximately \$404.8 million, assuming a City contribution to the county and regional projects on the list. Funding for these projects will be included in the Capital Improvement Program and are subject to annual review and approval in future budget cycles. If all development projected to occur by 2030 proceeds as predicted, the impact fee recommended would generate 5.7% of the total cost, or \$23.0 million.

#### **Policy Implications**

Updating the City's transportation impact fee program is a key implementation action identified in the City's Comprehensive Plan and resulted from a mitigation measure in the associated Final EIR.

#### **Environmental Review**

The proposed update to the City's traffic impact fee program was evaluated in the Final EIR for the Comprehensive Plan (certified and adopted November 13, 2017) and identified as a mitigation measure (Measure Trans1b) for the Plan. Projects to be funded by the fee will be subject to review pursuant to the California Environmental Quality Act (CEQA) prior to implementation when preliminary designs are available to enable that review.

#### **Attachments:**

Attachment A: Ordinance Amending Citywide Transportation Impact Fee (PDF)

Attachment B: Draft Nexus Study 09-21-2017 (PDF)

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Ordinance of the Council of the City of Palo Alto Amending Title 16 of the Palo Alto Municipal Code By Establishing an Updated Citywide Transportation Impact Fee and Indefinitely Suspending Application of the Existing Area-Specific Transportation Impact Fees for the Stanford Research Park/El Camino Real CS Zone and the San Antonio/West Bayshore Area, and Amending the Municipal Fee Schedule to Update the City's Transportation Impact Fees in Accordance with these Changes, All in Furtherance of Implementation of the Comprehensive Plan, Including Policy T-1.25 and Programs T1.2.3 and T1.25.1

The Council of the City of Palo Alto ORDAINS as follows:

SECTION 1. Findings and Declarations. The City Council finds and declares as follows:

- (a) On November 13, 2017, the City Council adopted an update to the City of Palo Alto Comprehensive Plan to guide projected growth and development within the City through 2030. As described in the certified Final Environmental Impact Report (EIR) for the Comprehensive Plan Update, new development would worsen traffic congestion and result in significant environmental impacts related to transportation. The Final EIR also identified mitigation measures to address those impacts, which were adopted by the Council and are reflected in the Comprehensive Plan's policies and programs as well as the adopted Mitigation Monitoring and Reporting Program.
- (b) The Comprehensive Plan includes a policy (T-1.25) to pursue funding opportunities for ongoing transportation improvements that will help mitigate impacts of future development and protect residents' quality of life. To implement that policy, the Comprehensive Plan includes a program (T1.25.1) to regularly evaluate the City's existing transportation impact fee and modify it as needed to implement transportation infrastructure improvements. This program provides that "[m]odifications to the impact fee program should be structured in keeping with the City's desire to require new development to reduce peak hour motor vehicle trips to the extent feasible through TDM plans and by contributions to the provision of transit services, shuttles, carpool/rideshare incentives and similar programs."
- (c) The Comprehensive Plan also includes a program (T1.2.2) to require new developments to implement transportation demand management (TDM) plans to achieve identified targets in vehicle trip generation, and to require payment of a transportation impact fee for those peak hour vehicle trips that cannot be reduced through TDM measures.
- (d) Consistent with the Comprehensive Plan, the Council desires to implement the identified policy and programs and adopt an updated citywide transportation impact fee to offset the traffic impacts from new development throughout Palo Alto.
  - (e) The City has prepared a study entitled "City of Palo Alto Transportation

Fee Nexus Study" dated September 21, 2017 and accepted by the City Council on \_\_\_\_\_\_, 2018 (hereinafter the "Nexus Study"), which specifies transportation improvements required to serve future development and recommends the amount of the impact fee on new development. The Nexus Study is available for public inspection during normal business hours at the Office of the City Clerk at 250 Hamilton Avenue, 1st Floor, Palo Alto, California, and the Planning & Community Environment Department at 250 Hamilton Avenue, 5th Floor, Palo Alto, California. The City Council has reviewed the Nexus Study and accepts the findings and conclusions of the study.

- (e) The Nexus Study concluded that all new land uses in Palo Alto will generate an increased demand for transportation infrastructure and services, and recommended that the citywide transportation impact fee apply to both residential and non-residential development in the city. While the Nexus Study found that all new land uses will generate this increased demand for transportation, the Council finds that it is in the public interest to exempt some uses from payment of the fee, in order to promote other important City policies and priorities, such as 100% affordable housing developments.
- (f) The improvements specified in the Nexus Study are intended to mitigate those traffic impacts identified in the Final EIR for the Comprehensive Plan and other recent traffic studies, and achieve a balanced transportation network. The range of improvements includes bicycle and pedestrian facilities, as well as intersection and roadway improvements, and is rooted in the City's policies of encouraging alternative mode use, discouraging single-occupant vehicle trips, improving traffic flow without major capacity enhancements, and encouraging motorists to use arterials rather than local residential streets. The cost estimates for the improvements in the Nexus Study are planning-level estimates and will be adjusted over time as more detailed engineering, design and other project-level work is completed.
- (g) The fee rates charged herein are no higher than necessary to cover the reasonable costs of providing transportation infrastructure to the population associated with new development, such as residents, visitors, employees and customers. In accordance with the Mitigation Fee Act, California Government Code Section 66001, et seq., the impact fees collected will be used for capital improvements, and not for operation and maintenance.
- (h) Based on the above findings and the Nexus Study, the City determines that the Citywide Transportation Impact Fee satisfies the requirements of the Mitigation Fee Act, California Government Code Section 66001, et seq. as follows:
  - (1) The purpose of the fee is to help meet the demands imposed on the City's transportation network by new development projects.
  - (2) Funds from the collection of the fee will be used to meet the demand for pedestrian and bicycle infrastructure, as well as roadway and intersection improvements, generated by new development.
  - (3) There is a reasonable relationship between the proposed uses of the fee and the impacts of the development projects subject to the fee on the transportation network in the city.

- (4) There is a reasonable relationship between the types of development projects on which the fee will be imposed and the need to fund transportation network improvements.
- (5) There is a reasonable relationship between the amount of the fee to be imposed on the development projects and the impact on the transportation network resulting from such projects.
- (i) The City currently has several transportation impact fees one citywide fee, and three that are specific to certain geographical areas of the city which were adopted over time to fund different sets of improvements. The Council desires to transition to a single citywide transportation impact fee, and cease collection of the fees established in Chapters 16.45 (Stanford Research Park/El Camino Real CS Zone) and 16.46 (San Antonio/West Bayshore Area) of the Code with the remaining funds to be applied to planned improvements in the covered geographical areas as identified by the Chief Transportation Official and subject to approval of the Council, as provided for in the Municipal Code. One area-specific fee, for Charleston-Arastradero Corridor Pedestrian and Bicyclist Safety improvements, would remain in effect until the identified improvements are constructed. This Ordinance amends and updates the existing citywide transportation impact fee consistent with the Comprehensive Plan and the Nexus Study.

<u>SECTION 2</u>. Chapter 16.59 (Citywide Transportation Impact Fee) of Title 16 (Building Regulations) of the Palo Alto Municipal Code is hereby amended to read as follows:

**16.59.010 Short title.** This chapter may be referred to as the "Citywide Transportation Impact Fee Ordinance."

**16.59.020 Definitions.** For the purposes of this chapter, the following definitions shall apply:

- (a) "Affordable housing" shall mean housing with a purchase price or rent that is affordable to a "moderate," "low" or "very low" income household, as those terms are defined by the California Department of Housing and Community Development, as applicable to Santa Clara County.
- (b) "Citywide transportation capacity enhancements" shall mean public facilities and services that relieve citywide traffic congestion caused by new development projects. Citywide transportation capacity enhancements include, but are not limited to, advanced transportation management and information systems, expanded shuttle transit services, and bicycle and pedestrian improvements, and roadway and intersection improvements. Citywide transportation capacity enhancements do not include (i) intersection improvements designed primarily to accommodate increased traffic generated by a specific development or (ii) the addition of through-traffic lanes designed for primary use by private motorized vehicles.
- (c) "Construction cost index" shall mean the construction cost index for the San Francisco Bay Area set forth in the Engineering News Record published by McGraw

Hill and Associates. In the event the Engineering News Record ceases to calculate and publish this index, then the city manager may designate a comparable, alternative index to serve as the construction cost index.

- (d) "Eligible citywide transportation <del>capacity</del> enhancements" shall mean (i) the citywide transportation <del>capacity</del> enhancements identified in the <u>most recent citywide</u> transportation impact fee nexus study approved by the city council, and (ii) other citywide transportation <del>capacity</del> enhancements that are approved by the city council that may be substituted for an identified improvement or service because they will mitigate similar congestion.
- (e) "Existing development" shall mean structures present (at the time the amount of the fee is calculated) and in use (within the two years prior to the time the amount of the fee is calculated) on parcels upon which new development is planned to occur. Where it is necessary to project PM peak hour vehicle trips generated by existing development, such projection shall be made based on either (i) the trip generation estimates used to determine the fee owed with respect to such existing development when the fee was last paid with respect to such existing development or (ii) if the fee has not been paid with respect to such existing development (or any portion thereof), the most recent use of the existing development.
- (f) "Fee" shall mean the citywide transportation impact fee imposed pursuant to this chapter.
- (g) Any reference in this chapter to the "Government Code" or to a section of the "Government Code" shall refer to the California Government Code as it exists at the time this ordinance chapter is applied and shall include amendments to that code the Government Code made subsequently to the adoption of this chapter, it being the intent of the city to maintain the fee in compliance with applicable law.
- (h) "New development" shall mean the construction of new structures or additions to existing structures in the city and, with respect to residential development, any development project that creates additional residential units. "New development" shall not mean replacement or expansion of an existing residential unit. With respect to nonresidential development, "new development" shall also mean any development project that creates additional square footage of useful areagross floor area or involves a change in use that requires a use permit or other planning approval.
- (i) "Transportation Impact Analysis Guidelines" shall mean the most recent edition of the "Transportation Impact Analysis Guidelines" promulgated by the Valley Transportation Authority or such other trip projection methodology adopted by the city for the purpose of traffic impact analysis reports.

**16.59.030** <u>Fee imposed</u>. The fee is hereby imposed as a condition of the issuance of any permit for any new development, unless expressly exempted by this chapter.

#### **16.59.040 Exemptions.** The provisions of this chapter shall not apply to:

- (a) City buildings or structures.
- (b) Public school buildings or structures.
- (ea) Affordable housing units, either for sale or rental, that exceed the minimum number required for projects under the city's below market rate (BMR) housing program or other provisions of this code, which units are, by recordable means, is permanently obligated to be and remain 100% affordable housing for a period consistent with the requirements of Section 16.65.075(c) of this code.
- (d) Retail service, eating and drinking service, personal service, or automotive service when the total square footage (including new development) is 1,500 square feet or less.
- (eb) Day care centers used for childcare, nursery school or preschool education.
- (f) Below market rate housing units above and beyond the minimum number required for projects subject to the city's below market rate (BMR) housing program. The additional units must be offered and constructed consistently with the requirements of the BMR program.
- (g) A change in tenancy that does not result in a change in use and which does not involve either (i) a demolition of an existing structure or (ii) an expansion of square footage of useful area.
- (<u>hc</u>) New development which is exempt from the fee by virtue of the Constitutions of the United States <u>and or California</u> or by virtue of other applicable state or federal law.

#### 16.59.050 Timing of payment.

- (a) The fee shall be paid as set forth in Chapter 16.64 of this code.
- (b) A credit against the fee may be given for dedications of eligible citywide transportation capacity enhancements constructed or provided at private expense and for the value of land dedicated to the city that is necessary or useful to an eligible citywide transportation capacity enhancement. Such credit will be granted only if the city council determines that: (i) the city will experience a substantial cost savings or service quality improvement as a result of private construction or provision of the capacity enhancement or the dedication of land, (ii) the capacity enhancement can be expected to immediately and significantly relieve citywide traffic congestion, and (iii) the grant of the credit, in lieu of the fee, will not cause the city to delay the implementation of elements of the city's transportation plan that are of higher priority, in the judgment of the city council, than the land or capacity enhancement

that will be dedicated. The credit shall be applied at the time the city accepts the land or capacity enhancement. Where the city council has made the determinations required by this subdivision, payment of a portion of the fee equal to the amount of an expected credit against the fee may be deferred to the date of final building inspection approval of the development, provided the owner of the real property for which the fees are required enters into a recordable agreement with the city prior to issuance of the building permit for the development, which from the date of recordation, shall constitute a lien on the property and shall be enforceable against successors in interest to the property owner. The agreement shall provide that final occupancy approval shall not be given until the fees are paid or the credit issued. The agreement shall also provide that, in any action to collect the fees or any portion thereof, the city shall be entitled to all of its costs of enforcement and collection, including reasonable attorney's fees. The director of planning and community environment may execute the agreement on behalf of the city in a form acceptable to the city attorney. Any deferral granted pursuant to this paragraph (b) shall be consistent with the requirements of Government Code Section 66007. Where a credit is given for the provision of a service that is an eligible capacity enhancement, the deferral of the fee, and the application of the credit, may be according to a schedule set forth in the recorded agreement, which schedule shall be designed to ensure that no credit is applied in advance of the provision of services for which the credit is made.

#### 16.59.060 Calculation of fee.

- (a) The fee imposed upon a new development shall be calculated by multiplying (i) the number of new PM peak hour vehicle trips projected to be generated by a new development by (ii) the current fee rate.
- (b) The number of new PM peak hour vehicle trips projected to be generated by a new development shall be calculated by subtracting the projected PM peak hour vehicle trips generated by existing development on the parcel(s) to contain the new development from the projected PM peak hour vehicle trips generated by the new development (including any existing structures to remain on the parcel after the construction of the new development). In no event shall a new development be projected to generate less than zero new PM peak hour vehicle trips as a result of this calculation.
- (c) For purposes of subsection (b), the number of PM peak hour vehicle trips projected to be generated by a new development shall be calculated pursuant to the transportation impact analysis guidelines. For development projects required to prepare, receive approval of, implement and monitor a transportation demand management (TDM) plan consistent with Comprehensive Plan Program T1.2.3, a target-based trip reduction approach allowed under the transportation impact analysis guidelines may be used, provided that the TDM plan is subject to an enforceable agreement approved by the city.

- (d) To the extent existing development on a parcel <u>qualified\_qualifies\_as</u> as new development after the effective date of <u>the most recent ordinance amending\_this</u> section, but was exempt from the fee by virtue of Section 16.59.040 of this code <u>in effect at the time the existing development was permitted</u>, the PM peak hour vehicle trips projected to be generated by that existing development, shall not be subtracted (as otherwise required by subdivision (b) of this section) from the projected PM peak hour vehicle trips generated by the new development.
- (e) The rate of the fee shall be established from time to time by resolution or ordinance of the city council in the manner required by Government Code Sections 66004 and 66018.
- (f) The rate of the fee shall be subject to annual adjustment for inflation pursuant to Section 16.64.110.
- (g) The department of planning and community environment shall be responsible for the calculation of the fee at the time of plan review or when the fee is due, whichever is earlier. Applicants shall supply the city with the necessary information to calculate the fee in a format acceptable to the city.
- (h) The number of new PM peak hour vehicle trips projected to be generated by a new development shall be calculated in a manner that accounts for peak hour vehicle trips expected to be reduced by any Transportation Demand Management (TDM) Plan approved or required by the city.
- (i) New retail service developments, as defined Section 18.04.030(a)(125) of this code, shall be charged a fee at 50% of the ordinary rate set under subdivision (e) of this section.

#### 16.59.070 **Special fund**.

- (a) There is hereby established a special fund, entitled the "Citywide Transportation Impact Mitigation Fund", into which all fee proceeds and any interest thereon shall be deposited. The fund shall be maintained as required by Government Code Section 66006.
- (b) Moneys in the fund shall be expended only on the installation, acquisition, <u>and</u> construction, <u>maintenance and operation</u> of eligible citywide transportation <del>capacity</del> enhancements.

#### 16.59.080 Accountability measures.

(a) At least annually and as required by Government Code Section 66006, the city manager, or his or her designee, shall review the estimated cost of the public improvements to be funded by the fee, the continued need for those improvements and the reasonable relationship between such need and the impacts of pending or

- anticipated new developments. The city manager, or his or her designee, shall report his or her findings to the city council at a noticed public hearing and recommend any adjustment to the fee or other action as may be needed.
- (b) The city council shall review such report in the manner required by Government Code Section 66006(b)(2).
- (c) To the extent required by Government Code Section 66001(d), the city council shall make the findings required by that section.

#### 16.59.090 Enforcement and pPenalties.

- (a) Any person violating or failing to comply with any of the requirements of this chapter shall be subject to an administrative penalty or administrative compliance order as set forth in Chapters 1.12 and 1.16 of this code.
- (b) The city attorney shall be authorized to enforce the provisions of this chapter and all agreements entered into in accordance with this chapter, by civil action and any other proceeding or method permitted by law.
- (c) Each person is guilty of a separate offense for each and every day during any portion of which any violation of any provision of this chapter is committed, continued or permitted by such person.
- (d) All remedies provided for in this section shall be cumulative and not exclusive and shall not preclude the city from any other remedy or relief to which it otherwise would be entitled under law or equity.
- (e) Failure of any official to fulfill the requirements of this chapter shall not excuse any developer from the requirements of this chapter.
- (a) All remedies provided for in this chapter shall be cumulative and not exclusive.
- (b) Violation of any provision of this chapter, including, but not limited to, converting an exempt use to a use to which this chapter applies without paying the fee, is a misdemeanor punishable as provided in this code.
- (c) Each person is guilty of a separate offense for each and every day during any portion of which any violation of any provision of this chapter is committed, continued or permitted by such person.
- (d) Any person violating any provision of this chapter, including, but not limited to, converting an exempt use to a use to which this chapter applies, without paying the fee, shall be liable civilly to the city in a sum not to exceed five hundred dollars for each day in which such violation occurs.

(e) Persons employed in the following designated employee positions are authorized to exercise the authority provided in the California Penal Code Section 836.5 and are authorized to issue citation for violations of this chapter: development services director, director of planning and community environment and their designee.

<u>SECTION 3</u>. Collection of the fee established in Chapter 16.45 (Transportation Impact Fee for New Nonresidential Development in the Stanford Research Park/El Camino Real CS Zone) of Title 16 (Building Regulations) of the Palo Alto Municipal Code is hereby suspended. It is the Council's intent to take further action to repeal the provisions of Chapter 16.45 upon expenditure of the collected funds.

<u>SECTION 4</u>. Collection of the fee established in Chapter 16.46 (Approval of Projects with Impacts on Traffic in the San Antonio/West Bayshore Area) of Title 16 (Building Regulations) of the Palo Alto Municipal Code is hereby suspended. It is the Council's intent to take further action to repeal the provisions of Chapter 16.46 upon expenditure of the collected funds.

SECTION 5. The City Council hereby amends the Municipal Fee Schedule by amending the Citywide Transportation Impact Fee and deleting the Stanford Research Park/El Camino Real CS Zone and San Antonio/West Bayshore Area traffic impact fees, as shown in Exhibit "A", attached hereto and incorporated herein by reference. When effective, the fees as amended by this Ordinance shall supersede any prior inconsistent fees charged by the Department of Planning and Community Environment. The amount of the new or increased fees and charges is no more than necessary to cover the reasonable costs of the governmental activity, and the manner in which those costs are allocated to a payer bears a fair and reasonable relationship to the payer's burden on, or benefits received from, the governmental activity. Pursuant to Government Code Section 66017, these changes shall become effective sixty (60) days from the date of adoption.

<u>SECTION 6</u>. If any section, subsection, clause or phrase of this Ordinance is for any reason held to be invalid, such decision shall not affect the validity of the remaining portion of the Ordinance. The Council hereby declares that it should have adopted the Ordinance and each section, subsection, sentence, clause or phrase thereof irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared invalid.

<u>SECTION 7</u>. The Council finds that the potential environmental impacts related to this Ordinance were analyzed in the Final EIR for the Comprehensive Plan Update, which was certified and adopted by the Council by Resolution No. 9720 on November 13, 2017. The Ordinance is consistent with and implements the program evaluated in the EIR.

<u>SECTION 8</u>. Severability. If any section, subsection, sentence, clause, phrase or word of this Ordinance is for any reason held to be invalid by a court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance. The City Council hereby declares that it would have passed and adopted this Ordinance, and each and all provisions hereof, irrespective of the fact that one or more provisions may be declared invalid.

SECTION 9. adoption.	This	Ordinar	nce s	hall	be	effectiv	e on	the	sixtieth	(60 <sup>th</sup> )	day	after	the	date	of	its
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PASSED:																
AYES:																
NOES:																
ABSENT:																
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City Clerk								May	yor					_		
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Assistant City	y Atto	orney						City	Manag	er						
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#### **EXHIBIT A**

## **Municipal Fee Schedule**

## **Planning and Community Environment**

Traffic Impact Fees	
Stanford Research Park/El Camino Real CS Zone	\$12.42 per net sq. ft.
San Antonio/West Bayshore area	<del>\$2.56 per sq. ft.</del>
Citywide Transportation Impact Fee	\$ <del>3,575.00</del> 8,083.00 per net new PM peak hour trip







## City of Palo Alto Transportation Impact Fee Nexus Study



**Draft Report** 

Prepared for:

**City of Palo Alto** 

September 21, 2017









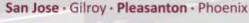


### Hexagon Transportation Consultants, Inc.

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San Jose, CA 95113 Phone: 408.971.6100

Client Name: City of Palo Alto Hexagon Job Number: 16JC05







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## **Executive Summary**

This nexus study reviews the City of Palo Alto's existing transportation impact fees and makes recommendations regarding the impact fee program in the future. Findings have been made in accordance with the requirements of the Mitigation Fee Act (AB 1600).

#### **Existing Transportation Impact Fees**

The City of Palo Alto currently has four transportation-related impact fees, of which three are applied in specific areas of the city and one is applied citywide. These four impact fees, the year when each was first adopted, and a brief summary of their current status are as follows:

- San Antonio / West Bayshore Area Traffic Impact Fee, 1986: This area has been redeveloped since the EIR and nexus study were prepared in 1986.
- Stanford Research Park / El Camino Real CS Zone Transportation Impact Fee, 1989: Of
  the four intersection improvement projects listed in the municipal code for this area-specific fee,
  two are complete. The City is currently coordinating with the Santa Clara County Department of
  Roads and Airports, which has jurisdiction over county expressways, to make improvements to
  three intersections on Page Mill Road.
- Charleston Arastradero Corridor Pedestrian and Bicyclist Safety Impact Fee, 2005: The
  corridor project is not yet complete. The City plans to continue to use these impact fee funds
  towards completion of the Charleston-Arastradero Corridor Plan, as provided for in the original
  nexus study.
- Citywide Transportation Impact Fee, 2007: The City has used funds from the citywide TIF to fund bicycle and pedestrian improvements and an upgraded traffic signal system.

## **Projected Future Growth and Resulting Impacts**

The Preferred Scenario of the Palo Alto Comprehensive Plan Update includes a range of 8,435 – 10,455 new residents and a range of 9,850 – 11,500 new jobs, The number of PM-peak-hour motor vehicle trips was projected for the low end and the high end of those growth assumptions and then averaged. It is estimated for purposes of this nexus study that there will be 4,202 additional PM-peak-hour motor vehicle trips generated by the Preferred Scenario in 2030.

The Comprehensive Plan Update FEIR includes a mitigation measure that would require all new development projects to develop Transportation Demand Management (TDM) plans to reduce the number of PM-peak-hour motor vehicle trips by a specified amount, depending on the location of the project. In other words, the City is requiring an upfront investment in ongoing trip reductions by new



development through the implementation of robust TDM plans. The range of required reductions is from 20% to 50%. Based on the amount of growth projected for each area and the TDM trip reduction target for that area, there would be an estimated reduction of 1,347 PM-peak-hour trips, assuming all projects meet their TDM targets.

Thus, with this upfront investment in trip reductions through TDM measures, it is estimated that 2,855 new PM-peak-hour trips would be generated by the future housing and employment growth defined by the Preferred Scenario, which is 5.7% of the total estimated citywide PM-peak-hour trips in the year 2030. The total estimated citywide PM-peak-hour vehicle trips were estimated with the Palo Alto travel demand forecasting model used in the Comprehensive Plan Update analysis.

The level of growth included in the six planning scenarios that were analyzed as part of the Comprehensive Plan Update would result in significant impacts to intersections, to freeway segments, to transit travel times (due to increased congestion), and to local residential streets (due to drivers avoiding increased congestion on arterials). Because all six of the planning scenarios that were examined in the Comprehensive Plan Update would result in some significant transportation impacts and because the City's Preferred Scenario represents a level of growth that is within the range of the six planning scenarios analyzed, there would be significant and unavoidable transportation impacts with the Preferred Scenario. The purpose of the improvements to be funded by the Transportation Impact Fee is to mitigate or offset these projected impacts to the extent feasible.

#### **Improvements to Mitigate Impacts**

Hexagon recommends transitioning to a single citywide Transportation Impact Fee (TIF) rather than the current structure of three fees that apply in specific areas and one citywide fee. However, we recommend retention of the Charleston-Arastradero Corridor fee until that bicycle and pedestrian safety project has been completed. The City's Comprehensive Plan Update EIR is the basis for the nexus between the projected future development in the City and the proposed citywide TIF.

The proposed citywide TIF expenditure plan is rooted in the City's policies of encouraging alternative mode use, discouraging single-occupant vehicle trips, improving traffic flow without major capacity enhancements, and encouraging motorists to use arterials rather than local residential streets. The total estimated cost of the improvements to be funded partially with the citywide TIF is \$954,778,300. For projects for which an annual expenditure amount has been provided, the total cost assumes 14 years (2017 – 2030) of that annual amount. The City's estimated share of these total costs is \$404,838,300.

Based on the fact that 5.7% of the total PM-peak-hour motor vehicle trips generated in the year 2030 would be generated by new development, 5.7% of the City's share of improvement costs, \$23,075,783, is attributed to new development and should be funded by the citywide TIF. As noted earlier, new development will also be responsible for a significant upfront and ongoing investment in trip reductions, through implementation of TDM plans.

## **Proposed Citywide Transportation Impact Fee**

The proposed amount of the citywide Transportation Impact Fee has been calculated by dividing the cost of the improvements to be funded by the TIF by the number of additional PM-peak-hour motor vehicle trips. The resulting impact fee is \$8,083 per PM-peak-hour trip (23,075,783 / 2855 = \$8,082.59). Additional recommendations include:

• The City should continue to charge the TIF on a "per PM-peak-hour trip" basis and use the trip rates included in the most recent edition of the ITE *Trip Generation Manual*. Trip reductions due



- to implementation of TDM plans should be applied in accordance with the policies of the Comprehensive Plan Update.
- It is recommended that the existing exemptions from the citywide TIF be retained, for consistency with Palo Alto's community facilities impact fees and to continue to encourage development of those land uses. The City may wish to consider a lower per PM-peak-hour trip fee for retail uses or increasing the size of retail uses that would be exempt from the TIF. The rationale for such a change is that many retail projects serve to reduce vehicle miles travelled (VMT) and result in lower traffic impacts than their trip generation rate suggests, due to short trip lengths, pass-by trips, and diverted linked trips.
- The City should consider adding accessory dwelling units to the list of exemptions from the
  citywide TIF in order to encourage their development. The City currently includes "second units"
  in the list of uses that are subject to the TIF and other impact fees.
- It is recommended that development projects on parcels that have been vacant for two or more years do not receive credit for the existing uses on the parcel, when calculating the TIF. Such a policy is consistent with VTA's *Transportation Impact Analysis Guidelines* requirement to use traffic counts that are no more than two years old. If a parcel has been vacant for two or more years, existing traffic conditions reflect that vacancy, rather than the historical usage of the site.
- The City should continue to adjust fee levels annually, in line with the Construction Cost Index.

#### **Impact Fees in Other Cities**

The Transportation Impact Fees of numerous nearby cities were tabulated in order to provide context for considering Palo Alto's existing citywide TIF of \$3,575 and proposed TIF of \$8,083 per net new PM-peak-hour vehicle trip. Table ES-1 presents a summary of the TIF rates for two common land uses, multi-family housing and offices, in nearby cities, most of which specify their rates on a per dwelling unit and per thousand square feet basis. To facilitate comparison with other cities' rates, Palo Alto's "per PM-peak-hour vehicle trip" existing and proposed rates were converted to rates per dwelling unit and per thousand square feet, based on standard ITE *Trip Generation Manual* rates. The apartment land use rate (ITE category 220) has been used for multi-family housing. The proposed TIF of \$8,083 per net new PM-peak-hour trip results in a "pre-TDM reduction" rate of \$5,011 per multi-family dwelling unit and \$12,043 per thousand square feet of office space.

However, because Palo Alto would require development projects to achieve a trip reduction of between 20% and 50% via robust TDM plans, depending on a project's location, no project would pay the "pre-TDM reduction" rates. The derived TIF rates for Palo Alto are shown after accounting for TDM trip reductions that would apply in different parts of the City. As shown in Table ES-1, although there would be a single citywide rate of \$8,083 per net new PM-peak-hour vehicle trip, the effective rate that would be paid by a specific project would depend on the estimate of the number of PM-peak-hour trips it would generate after achieving the trip reduction target for its location. The cost of achieving those trip reductions through implementation of TDM plans has not been included and rests solely with the developer.

Of the cities surveyed, three cities currently have TIFs that are higher than the proposed "pre-TDM reduction" level in Palo Alto: Mountain View's TIF for office and R&D uses in the North Bayshore Area, Los Gatos's TIF for some land uses, and San Jose's four TIF programs for some land uses. Los Altos and the Moffett Park area of Sunnyvale have rates than are lower than the proposed "pre-TDM reduction" level in Palo Alto, but higher than the amount that would be charged in some areas after TDM reductions are accounted for. The TIF amounts in all other cities in the survey are lower than the proposed citywide TIF even when the highest trip reduction (50% in downtown area) is accounted for, and many are also lower than Palo Alto's current citywide TIF.



Table ES- 1
TIF Rates for Multi-Family Residential and Office Uses in Nearby Cities

•		Office TIF (per KSF)	Notes		
Palo Alto <sup>a</sup>					
Current Citywide TIF	\$	2,217	\$	5,327	Based on \$3,575 per PM-peak-hour trip.
Proposed TIF, no TDM reduction	\$	5,011	\$	12,043	Based on \$8,083 per PM-peak-hour trip.
Proposed TIF less 20% for TDM	\$	4,009	\$	9,634	Based on \$8,083 per PM-peak-hour trip; all other areas of City.
Proposed TIF less 30% for TDM	\$	3,508	\$	8,430	Based on \$8,083 per PM-peak-hour trip; Stanford Research Park or El Camino Corridor location.
Proposed TIF less 35% for TDM	\$	3,257	\$	7,828	Based on \$8,083 per PM-peak-hour trip; Calif. Ave. location.
Proposed TIF less 50% for TDM	\$	2,506	\$	6,022	Based on \$8,083 per PM-peak-hour trip; downtown location.
Menlo Park					
Citywide	\$	1,927	\$	4,630	
Supplemental Downtown <sup>a</sup>	\$	235	\$	565	Based on \$379 per PM-peak-hour trip .
Redwood City					
Non-Downtown	\$	992	\$	2,380	
Downtown	\$	744	\$	1,790	
San Carlos	\$	1,892	\$	4,547	
San Mateo	\$	2,101	\$	3,135	
Los Altos	\$	3,777	\$	9,076	
Mountain View					
North Bayshore Area		N.A.	ć	23,260	No rate given for residential uses in this area.
Sunnyvale		IV.A.	Ų	23,200	No rate given for residential uses in this area.
South of S.R. 237	\$	1,931	¢	4,640	
North of S.R. 237	Ų	N.A.		6,375	No rate given for residential uses in this area.
NOITH 01 3.N. 237		IV.A.	Ų	0,373	R&D TIF rate is \$6,375; used for offices north of SR 237.
Los Gatos <sup>a</sup>	\$	6,185	¢	10,258	TIF is \$902 per DAILY trip. TIF calculated with ITE daily
ios Gutos	Y	0,103	Y	10,230	trip rates times \$902.
Santa Clara		N.A.	\$	1,000	TIF applies only in defined area (north of Caltrain tracks).  No rate given for residential uses in this area.
San Jose					
North San Jose Area	\$	7,742	\$	14,440	Industrial TIF rate is \$14,440; used for offices in this area.
Evergreen-East Hills Area		N.A.	\$	13,170	No rate for Multi-Family. Single-Family is \$15,148 per unit.
US 101/Oakland Ave/Mabury Rd					TIF is \$35,767 per PM peak hour trip that would use
					one of the planned interchange improvements.
I-280/Winchester Blvd.					TIF is \$25,641 per PM peak hour trip that would use
					the proposed off-ramp improvement.
remont	\$	2,382	\$	5,297	Multi-Family rate shown is for units with 2-3 bedrooms.

Note: TIF amounts are from each city's website. (a) Where TIF fees are specified by a city on a per vehicle trip basis, standard ITE trip generation rates have been used to calculate the rate per dwelling unit for multi-family residential and per KSF for offices.

Source: Hexagon Transportation Consultants, Inc., 2017



## 1. Introduction and Existing Impact Fees

This report presents the results of a nexus study prepared to update the City of Palo Alto's existing transportation impact fees. Development impact fees are commonly used throughout California to require new development to pay for the needs that it creates. In Palo Alto, impact fees are currently charged for transportation, housing, community facilities, public art, and parkland dedication. The purpose of this study is to allow the City to make the necessary findings in order to revise its existing transportation-related impact fees.

The City of Palo Alto currently has four transportation-related impact fees, of which three are applied in specific areas of the city and one is applied citywide. These four impact fees and the year when each was first adopted are as follows:

- San Antonio / West Bayshore Area Traffic Impact Fee, 1986
- Stanford Research Park / El Camino Real CS Zone Transportation Impact Fee, 1989
- Charleston Arastradero Corridor Pedestrian and Bicyclist Safety Impact Fee, 2005
- Citywide Transportation Impact Fee, 2007

## **Development Impact Fees in California**

The Mitigation Fee Act (Government Code Sections 66000-66025) was originally enacted through Assembly Bill 1600 in 1987 and requires that a reasonable relationship (nexus) be established between the projects or mitigations to be funded by an impact fee and the impacts caused by new development. Impact fees are one-time fees that are charged by a local government agency and are distinct from taxes and special assessments. When imposing an impact fee as a condition of approval of a development project, a local agency must make the following findings:

- Identify the purpose of the fee;
- Identify the use to which the fee is to be put;
- Determine how there is a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed;
- Determine how there is a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed.

This study provides the necessary evidentiary basis to support these findings. The current status of each of the four transportation impact fees in Palo Alto is also provided in order to address the question of whether it would be preferable for the City to retain four separate transportation impact fees or consolidate some or all of them.



#### **Existing Impact Fees in Palo Alto**

The City of Palo Alto currently charges development impact fees for the following broad purposes: transportation, affordable housing, community facilities, public art, and parkland dedication. Within the category of community facilities, separate impact fees are charged for parks, community centers, libraries, public safety facilities, and general government facilities. Within the category of transportation, there are currently four separate impact fees, of which three are imposed only in specific areas of the city and one is applied citywide. A summary of Palo Alto's impact fees for Fiscal Year 2017-18 (effective as of August 28, 2017) is presented in Table 1.

The first impact fee established by Palo Alto was for affordable housing, in 1984. This was followed by adoption of two of the transportation-related impact fees in the late 1980s, around the time that AB 1600 was passed. The other two transportation-related fees were adopted approximately ten years ago, in the mid-2000s. Community facilities fees (for parks, libraries, community centers, public safety facilities, and general government facilities) were established in 2002 and 2015, and the housing impact fee was significantly revised in 2017. It should be noted that the city also has an in-lieu parking fee for the Downtown Parking Assessment District, but this is not an impact fee and is not addressed in this nexus study.

Exemptions from impact fees for specific land uses vary for the different fees. The Citywide Transportation Impact Fee (TIF) and the Charleston-Arastradero Corridor Safety Fee have the same exemptions as all of the community facilities impact fees. These exemptions, as identified in the July 1, 2017 update of the "Palo Alto Development Impact Fees" document, include:

- Single-family home remodels or additions,
- Housing projects with 100% affordable housing units,
- Below Market Rate (BMR) housing units beyond the minimum number required by the City's BMR housing program,
- Public buildings and schools,
- Retail, personal service, or automotive service that is 1,500 s.f. or smaller.
- Daycare, nursery schools, and preschools,
- On-site cafeteria/recreation/childcare facilities for employee use only,
- Hazardous materials storage.

All residential uses are exempt from the San Antonio-West Bayshore and the Stanford Research Park traffic impact fees, but the following residential uses are subject to the Citywide TIF and the Charleston/Arastradero TIF: new homes on an empty parcel, second units, multi-family residential projects, and required Below Market Rate units. Replacement single-family homes are not subject to the citywide TIF.

Figure 1 shows the areas covered by the three transportation-related impact fees that apply in specific areas of the city. Any new project that is within one of the three areas would pay at least two transportation-related impact fees: the appropriate area-specific fee and the citywide fee. Because of the overlap of the three areas, there are locations where a new development may be subject to three transportation impact fees: the citywide fee, the Charleston-Arastradero Corridor fee, and either the San Antonio/West Bayshore fee or the Stanford Research Park fee.



Table 1
Summary of Existing Palo Alto Impact Fees

		Residential								Non-Residential							
Impact Fee	Year Fee Was First Adopted	Sing Fam	ily	Fa	ingle amily 100 s.f.	F	Multi- amily 900 s.f.	F	Multi- amily 900 s.f.	Con	nmercial		Hotel/ Motel	Ins	titutional	Inc	lustrial
Transportation	Adopted	<b>~0000</b>	, J.II.	700	00 3.1.		300 3.1.		300 3.1.	0011	inicrolai		Motor	1110	illational		lastriai
San Antonio/West Bayshore	1986		Α	ll res	idential	use	s exempt						\$2.56 per so	guar	e foot		
Stanford Research Park/El Camino Real	1989	All residential uses exempt					\$2.56 per square foot \$12.42 per net new square foot										
Charleston-Arastradero Corridor	2005	\$1,306 per residential unit					\$0.38 per square foot										
Citywide	2007					et new PM peak hour trip											
Community Facilities				D	er dwel	ling	unit						Per squa	ro fo	not.		
Parks	2002	S 11	.,917		17,795	Ś	3,944	\$	7.801	Ś	5.061	Ċ	2.288		5.061	¢	5.061
Community Centers	2002	•	3,089		4,626	•	1,026		2,033	\$	0.286		0.129	•	0.286	•	0.286
Libraries	2002	•	L,079		1,606	•	355	\$	645	ς ς	0.272		0.114	•	0.272	•	0.272
Public Safety Facilities	2015	•	1,036		1,036		829	\$	829	\$	0.579		0.579	•	0.772	•	0.193
General Govt Facilities	2015	•	,		1,305		1,044	•	1,044	\$	0.729		0.729	•	0.974	•	0.243
	tal Community Facilities				26,368		7,198		12,352	\$	6.927		3.839		7.365		6.055
Housing	2017	Single-Family Detached: \$75 per s.f. Condos, Single-Family Attached: \$50 per s.f. Apartments: \$20 per s.f.					s.f.	Office/R&D: \$35 per s.f. Hotel, Retail, Other Non-Residential: \$20.37 per s.f.									
Public Art	2013		Α	ll res	idential	use	s exempt	t .		cons	struction v	aluat	llion constr tion in exce > 10,000 s.	ess, f	or comme	rcial b	ouildings
Parkland Dedication	2006	or parc	el mar	p wit	h less th	nan 5	equire a 50 parcel 50 parcel	s wł	nen		P	II no	>\$200 n-residenti				
			not de	edicat	ted. If o		•										

Source: City of Palo Alto, "Development Impact Fees", updated 7/1/17



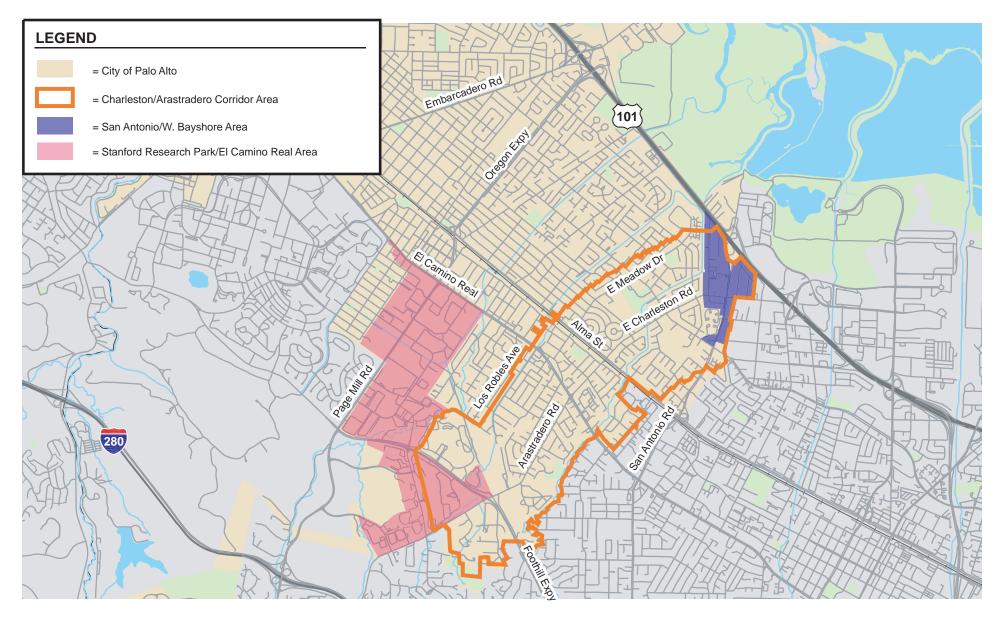


Figure 1
Traffic Impact Fee Areas





All four of the transportation impact fees provide for annual adjustments to the fees based on the Construction Cost Index published by the *Engineering News Record*. The following sections provide more detail on the history and the projects included in each of the city's four transportation-related impact fees.

#### San Antonio/West Bayshore Area

Adopted in 1986, Chapter 16.46 of the Palo Alto Municipal Code (PAMC) is entitled "Approval of Projects with Impacts on Traffic in the San Antonio/West Bayshore Area," which is generally bounded by U.S. Highway 101, Middlefield Road, Fabian Way, and the city limits. The municipal code identifies four specific projects to be funded with this impact fee, as shown in Table 2, but also states that the funds may be spent on "alternative improvements in the area as determined by the Chief Transportation Official, subject to the approval of the City Council."

The need for this impact fee was established in the San Antonio/West Bayshore Environmental Impact Report (EIR). Most of the development that was analyzed in that EIR has occurred.

This impact fee was primarily intended for capacity-enhancing intersection improvements to accommodate the projected growth in traffic resulting from new development. The City's approach to accommodating traffic growth has shifted in the last 30 years and is now geared more towards encouraging alternative mode use than towards adding roadway and intersection capacity. Therefore, as shown in Table 2, not all of the projects specifically identified in the municipal code in 1986 have been completed.

Table 2
San Antonio/West Bayshore Traffic Impact Fee Projects

Projects Listed in Municipal Code <sup>a</sup>	Current Status
an Antonio Road/Middlefield Road:	City currently plans to widen Middlefield to add bike lanes, but
easibility study for a second left-turn lane	no longer plans to add a second left-turn lane to westbound
on westbound Middlefield at San Antonio	Middlefield at San Antonio.
an Antonio Road/Charleston Road:	Project not implemented and City does not plan to pursue project.
tight-turn lane on westbound Charleston	Mountain View has recently resurfaced westbound approach.
ignalized intersection at Ford Aerospace Iriveway	Project is no longer needed. Former Ford Aerospace site is now JCC site.
nterconnections of area traffic signals	Project Complete.

Source: Hexagon Transportation Consultants, Inc., 2017



The current status of the projects, as presented in Table 2, is based on input from City staff and on Resolution No. 9389, passed by the City Council on January 14, 2014, which included an update on projects to be funded by impact fees that had not yet been completed at that time.<sup>1</sup>

The current amount of this fee, as of August 28, 2017, is \$2.56 per square foot for non-residential projects only. The current balance in the San Antonio /West Bayshore Fund, as of June 30, 2016, is \$876,563, according to the "Annual Report on Development Impact Fees for Fiscal Year 2016," as presented to the City Council on February 6, 2017. No funds have been spent from the San Antonio/West Bayshore Traffic Impact Fee fund for many years.

The following projects have been proposed for expenditure from this fund:

- US 101/Adobe Creek Bicycle/Pedestrian Bridge. The current budget for this project does not
  include any TIF funds. However, if additional funds are needed to complete this project, it would
  be the first priority for San Antonio/West Bayshore TIF funds, and funds would be directed as
  needed to the US 101/Adobe Creek bridge.
- Fabian Way Enhanced Bikeway, which is part of the "Waverley Multi-Use Path Improvements and East Meadow Drive and Fabian Way Enhanced Bikeways" project, for which the City has applied to VTA for funding. This project has three components and the Fabian Way component is within the San Antonio/West Bayshore area. The City proposes to use \$200,000 from the TIF fund as the local match for this project.
- San Antonio Road and East Charleston Road Intersection Improvements. The project would construct multi-modal safety and operational improvements at this intersection. The City proposes to use \$250,000-\$500,000 from the TIF for this project.
- San Antonio Road/Avenue Enhanced Bikeway Project. This project includes a Class I shared-use path with improved intersection treatments and wayfinding between East Charleston and Byron Street and a Class III bicycle boulevard with traffic calming between Byron Street and Alma Street. The Class I portion of the project is in the San Antonio/West Bayshore area. All remaining San Antonio/West Bayshore TIF funds would be directed to this project.

#### Stanford Research Park / El Camino Real CS Zone

The "Transportation Impact Fee for New Non-Residential Development in the Stanford Research Park/ El Camino Real CS Zone" (PAMC Chapter 16.45) was adopted in 1989. Improvements to eight intersections were originally identified as the purpose of the impact fee, based on the impacts identified in the *Citywide Land Use and Transportation Study Environmental Impact Report*, September 1988, and certified by the City Council on March 6, 1989. The project list was updated in 2002 to reflect the four capacity improvements identified in the *1998-2010 Comprehensive Plan Environmental Impact Report*. These four projects, as currently specified in the municipal code, and their current status are presented in Table 3. Of these four projects, two have been completed and two will be completed soon.

Three of the four intersections currently identified in the municipal code as the projects to be funded with this impact fee were studied extensively in the *Draft Expressway Plan 2040* by the Santa Clara County Department of Roads and Airports and in the *Page Mill Road Expressway Corridor Study* 

<sup>&</sup>lt;sup>1</sup> California law (Government Code Section 66001(d)) requires local agencies to make certain findings with respect to development fees which remain unexpended or uncommitted five or more fiscal years after deposit of such fees.



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Report, prepared for Santa Clara County, the City of Palo Alto, and the Town of Los Altos Hills. The Santa Clara County Department of Roads and Airports has jurisdiction over all expressways in Santa Clara County, including two in Palo Alto: Foothill Expressway and Oregon Expressway/Page Mill Road.

The City plans to implement improvements at three Page Mill Road intersections, at El Camino Real, Hansen Way, and Hanover Street, using the project descriptions included in the *Page Mill Road Expressway Corridor Study Report*. The City is currently developing an agreement with the County for the design and construction of these improvements, which will include \$3.2 million in City funds.

At the intersection of Foothill/Arastradero/Miranda, which currently functions as two closely spaced signalized intersections, the project described in the municipal code has been completed. However, the County has proposed a major reconstruction of that intersection to include grade separation of Foothill and Arastradero, a roundabout at Miranda and Arastradero, and a signalized intersection for the southbound Foothill off-ramp on Arastradero.

As with the San Antonio/West Bayshore Impact Fee, the Stanford Research Park/El Camino Real impact fee funds may be used for alternative improvements or alternative intersections, subject to the City Council's approval. The current amount of this fee, as of August 28, 2017, is \$12.42 per net new square foot for non-residential projects only. The current balance in the Stanford Research Park/El Camino Real Fund, as of June 30, 2016, is \$3,223,649, according to the "Annual Report on Development Impact Fees for Fiscal Year 2016", as presented to the City Council on February 6, 2017. These funds will provide the City's share of the budget for the Page Mill Road intersection improvements described above.

Table 3
Stanford Research Park/El Camino Real Traffic Impact Fee Projects

Projects Listed in Municipal Code <sup>a</sup>	Current Status						
Page Mill Expressway/Hanover Street:	Page Mill Corridor Study: "Add a northbound and						
Add southbound right-turn lane;	southbound left-turn lane and convert signal to 8-phase operation.						
restripe northbound approach. (Hanover	Convert Hanover to one through lane each direction and add						
is the N-S street)	bike lanes."						
Page Mill Expressway/El Camino Real:	Page Mill Corridor Study: "Modify alignment of westbound						
Add right lanes to all approaches.	left-turn lane to provide additional capacity; provide dedicated						
	westbound right-turn lane; extend bike lanes."						
	City plans to implement project using Corridor Study definition.						
Foothill Expressway/Arastradero/Miranda:	Project as defined in PAMC has been completed.						
Add additional westbound lane on	County's 2040 Expwy Plan proposes major reconstruction of						
Arastradero at Miranda to provide two left-turn	this intersection, including grade separation and a roundabout.						
lanes and a right-turn lane at Foothill.							
Middlefield Road/Oregon Expressway:	Project complete. Portion of project not implemented due to						
Add northbound and southbound	need for tree removal.						
left-turn lanes (Middlefield is the N-S street)							

Source: Hexagon Transportation Consultants, Inc., 2017



#### **Charleston-Arastradero Corridor**

The "Charleston Arastradero Corridor Pedestrian and Bicyclist Safety Impact Fee" (PAMC Chapter 16.60) was adopted in 2005. It applies to both residential and non-residential development within one-half mile of the corridor, beginning at Fabian Way and ending at Miranda Avenue, near Foothill Expressway. The purpose of the impact fee is to provide funding for the Charleston Arastradero Corridor Plan, a streetscape improvement plan intended to address the safety concerns of pedestrians and bicyclists using the corridor. As described in the 2005 nexus study prepared for this impact fee, the improvements include:

- Reorganization of auto travel lanes throughout the corridor, with removal of auto travel lanes in some locations in favor of bike lanes and landscaped medians;
- Provision of a bike lane in each direction that is tinted or painted to enhance safety;
- Lighted (in-pavement, pedestrian-activated) crosswalks in several locations, particularly near schools:
- Pedestrian bulb-outs and median island refuges for pedestrian safety, along with an irrigated, planted center median interspersed with left-turn pockets;
- Installation of frontage improvements, including new street lighting to improve pedestrian and bicyclist visibility and safety.

The 2005 nexus study characterized the Charleston Arastradero Corridor Plan as a defined project with a defined timeline, and noted that there was no need for funds after the project had been fully implemented. Thus, it was assumed that the impact fee would terminate after project construction was complete. The City has partially completed the project, and has recently received an updated cost estimate of \$11,316,200 for the remaining work.

Funds have been transferred annually to the City's Capital Improvement Program since the inception of this impact fee fund, for use on improvements in the corridor. The current amount of the fee, as of August 28, 2017, is \$1,306 per residential unit and \$0.38 per square foot for non-residential development. The current balance in the Charleston-Arastradero Corridor Pedestrian and Bicyclist Safety Fund, as of June 30, 2016, is \$8,708, according to the "Annual Report on Development Impact Fees for Fiscal Year 2016", as presented to the City Council on February 6, 2017. The City plans to also use other fund sources to complete this project.

#### **Citywide Transportation Impact Fee**

The "Citywide Transportation Impact Fee" (PAMC Chapter 16.59) was adopted in 2007. However, the original nexus study for this impact fee was conducted in 2004, prior to the adoption of the Charleston Arastradero Corridor Impact Fee in 2005. The nexus study for the citywide fee was updated in 2007 to incorporate revised project costs and traffic projections.

One key difference between the Citywide TIF and the three other TIFs is that it is based on PM peak hour trips generated by a project, rather than on a per square foot or per dwelling unit basis. This fee basis provides an even closer nexus between the transportation impacts caused by new development and the amount that a given project is required to pay.

The nexus study identified projects for the Citywide Transportation Impact Fee, as shown in Table 4. Because the fee was to be charged on a citywide basis, a geographically balanced expenditure plan was developed in order to ensure geographic equity. None of the projects to be funded by the citywide fee were capacity enhancements as identified in the San Antonio/West Bayshore fee or the Stanford Research Park/El Camino Real fee. Because the citywide fee was intended to fund different types of projects than those specific area fees, the area fees were retained when the citywide fee was adopted.



The current amount of the fee, as of August 28, 2017, is \$3,575 per net new PM peak hour trip for both residential and non-residential development. The current balance in the Citywide Transportation Fund, as of June 30, 2016, is \$2,979,023, according to the "Annual Report on Development Impact Fees for Fiscal Year 2016", as presented to the City Council on February 6, 2017. An updated list of projects to be funded with the Citywide TIF is presented in Chapter 3.

Table 4
Citywide Transportation Impact Fee Projects

Projects Listed in Nexus Study <sup>a</sup>	Current Status
Citywide Transportation Demand Management:	TIF funds have not been used for this project. (State law
0.5 FTE for a city staffperson to manage	currently limits the use of impact fees to capital projects.)
and market a TDM program.	
Advanced Transportation Management and	Project complete.
Information System	
Expanded Palo Alto Shuttle Service:	TIF funds have not been used for this project. (State law
Nexus study included both operating cost	currently limits the use of impact fees to capital projects.)
of shuttle service and capital cost of replacing	
7 buses.	
Bicycle and Pedestrian Projects: Bicycle	Many specific projects have been completed. City has
boulevards, bike/ped undercrossings,	updated its Bicycle + Pedestrian Transportation Plan since
bike lanes/routes on major arterials and streets,	Nexus Study was conducted. This plan is the current source of
spot bike/ped improvements.	bike/ped project priorities.

Source: Hexagon Transportation Consultants, Inc., 2017

## **Report Organization**

The remainder of this report addresses the following steps in order to make the necessary findings for updating the City's transportation impact fee program:

- 1. The level of future growth in Palo Alto in terms of residential dwelling units and new jobs is projected;
- 2. The number of PM-peak-hour motor vehicle trips that would be generated by that growth is estimated:
- 3. The transportation impacts or deficiencies caused by those additional PM-peak-hour trips are identified:
- 4. Projects that would mitigate or offset those impacts or deficiencies to the extent feasible are identified:
- 5. The cost of those projects is estimated;
- 6. A proposed impact fee to be charged to future growth is calculated.



Chapter 2 covers the City's projected growth, the trips it would generate, and their projected impacts. Chapter 3 presents the improvements and programs that would mitigate those impacts. Chapter 4 addresses the recommended transportation impact fee structure and recommended fee level. Chapter 5 summarizes the impact fees currently charged by other municipalities on the peninsula and in the South Bay. Chapter 6 summarizes the findings of this report.



## 2. **Projected Growth and Its Impacts**

This chapter describes the level of growth projected to occur in Palo Alto through the horizon year of 2030, the number of PM-peak-hour motor vehicle trips expected to be generated by that growth, and the transportation impacts resulting from those additional motor vehicle trips.

## **Projected Development**

The City of Palo Alto is currently engaged in a planning effort to update its Comprehensive Plan. The forecast year for the Comprehensive Plan Update is the year 2030. As part of this process, six hypothetical planning scenarios have been developed in order to capture a range of possible outcomes stemming from different growth assumptions. Each of the different planning scenarios makes different land use assumptions regarding household growth and job growth, as well as different assumptions regarding transportation investments and policies. These scenarios were analyzed in the February 2016 Draft EIR and the February 2017 Supplement to the Draft EIR.

Based on the analysis of the six planning scenarios, the City Council has identified a Preferred Scenario for the Comprehensive Plan Update, which is within the range of the growth assumptions in the six scenarios. The growth assumptions for the City of Palo Alto, excluding its Sphere of Influence, under the Preferred Scenario are presented in Table 5. All of the data in this table and in the remainder of this chapter are from the Comprehensive Plan Update Final EIR, dated August 30, 2017. The Preferred Scenario's projections of housing and employment for the year 2030 include a range of 3,545 – 4,420 new residential units and 9,850 – 11,500 new jobs (see Table 5).



Table 5
Projected Growth by the Year 2030 under the Preferred Scenario

Land Use Assumption	Existing Conditions <sup>a</sup>	Increase Under Preferred Scenario <sup>b</sup>	% Increase
Harring Hatta	20 5 45	2.545 4.420	12.4. 45.50/
Housing Units	28,545	3,545 - 4,420	12.4 - 15.5%
Population <sup>c</sup>	65,685	8,435 - 10,455	12.8 - 15.9%
Jobs	95,460	9,850 - 11,500	10.3 - 12.0%

#### Notes:

- (a) From the Comprehensive Plan Update EIR, reflects 2014 conditions.
- (b) Increase by 2030, based on the Preferred Scenario of the Comprehensive Plan Update EIR, excluding the Sphere of Influence.
- (c) Based on a housing unit vacancy rate of 5 percent and an average household size of 2.41 persons per household in 2030.

Source: Hexagon Transportation Consultants, Inc., 2017

## **Projected Increase in PM-Peak-Hour Motor Vehicle Trips**

The Comprehensive Plan Update process has used the Palo Alto 2030 travel demand forecasting model to project the number of PM-peak-hour motor vehicle trips that each of the six planning scenarios and the Preferred Scenario would generate. Palo Alto's model is based on Santa Clara Valley Transportation Authority's (VTA's) travel demand forecasting model, which is based, in turn, on the Metropolitan Transportation Commission's (MTC's) regional model for the entire Bay Area.

Palo Alto's citywide model has calculated PM-peak-hour traffic volumes projected to occur in the year 2030 based on both the low end and the high end of the range of input land use assumptions shown in Table 5 above. As shown in Table 6, it is estimated that the level of development at the low end of the Preferred Scenario's range would generate 3,710 additional PM-peak-hour vehicle trips with origins and/or destinations within the City of Palo Alto in the year 2030. The level of development at the high end of the Preferred Scenario's range would generate 4,693 additional PM-peak-hour vehicle trips. For purposes of this nexus study, 4,202 PM-peak-hour vehicle trips, which is the average of the two estimates, is used as the projection of new PM-peak-hour vehicle trips that would be generated by the Preferred Scenario. This projection does not include trips for which both the origin and the destination are outside Palo Alto and are "pass through" trips of a regional nature.



Table 6
Projected PM-Peak-Hour Vehicle Trips Generated by the Preferred Scenario

	PM-Peak-Hour Vehicle Trips <sup>b</sup>								
	Existing	2030							
Scenario Assumption <sup>a</sup>	Conditions	Conditions	Increase						
Low End of Preferred Scenario's growth assumptions	47,206	50,916	3,710						
High End of Preferred Scenario's growth assumptions	47,206	51,899	4,693						
Average of the two projections	47,206	51,408	4,202						

#### Notes:

- (a) Based on the Preferred Scenario of the Comprehensive Plan Update FEIR, excluding Sphere of Influence.
- (b) PM-Peak-Hour Vehicle Trips includes both single-occupant and shared ride vehicle trips.

Source: Hexagon Transportation Consultants, Inc., 2017

#### **Trip Reduction Due to TDM Plans**

One of the mitigation measures included in the Comprehensive Plan Update Final EIR for impacted intersections would require all new development projects above a certain size to prepare a Transportation Demand Management (TDM) Plan to reduce the number of peak hour motor vehicle trips generated by the project. The mitigation measure sets different trip reduction requirements for different areas of City, ranging from 20% to 50%. This TDM requirement will also be included in one of the policies in the Comprehensive Plan Update itself. Mitigation Measure Trans-1A in the Final EIR reads as follows:

"Adopt a programmatic approach to reducing motor vehicle traffic with the goal of achieving no net increase in peak-hour motor vehicle trips from new development, with an exception for uses that directly contribute to the neighborhood character and diversity of Palo Alto (such as ground-floor retail and below-market-rate housing). The program should, at a minimum:

- Require new development projects above a specific size threshold to prepare and
  implement a Transportation Demand Management (TDM) plan to achieve at least the
  following reduction in peak-hour motor vehicle trips from the rates included in the
  Institute of Transportation Engineers' *Trip Generation Manual* for the appropriate land
  use category and size. These reductions are deemed aggressive, yet feasible, for the
  districts indicated:
  - o 50 percent reduction in the Downtown district
  - o 35 percent reduction in the California Avenue area
  - o 30 percent reduction in the Stanford Research Park
  - o 30 percent reduction in the El Camino Real Corridor
  - o 20 percent reduction in other areas of the city

TDM plans must be approved by the City and monitored by the property owner or the project proponent on an annual basis. The Plans must contain enforcement mechanisms or penalties that accrue if targets are not met and may achieve reductions by contributing to citywide or employment district shuttles or other proven transportation programs that are not directly under the property owner's control.



Require new development projects to pay a Transportation Impact Fee for all those
peak hour motor vehicle trips that cannot be reduced via TDM measures. Fees
collected would be used for capital improvements aimed at reducing motor vehicle trips
and motor vehicle traffic congestion."

The Transportation Impact Fee referred to in the second bullet point of the mitigation measure is the subject of this nexus study. For purposes of estimating the total citywide reduction in peak hour motor vehicle trips through implementation of TDM plans by new development projects, Hexagon has assumed that all projects would meet the reduction target for the area where they are located. Hexagon has used the PM-peak-hour as the basis of analysis, since it is the basis of the existing citywide TIF and is typically more congested than the AM-peak-hour. The number of PM-peak-hour motor vehicle trips generated in each of the Traffic Analysis Zones (TAZs) used in the travel demand forecasting model was used as the basis for the appropriate trip reduction target for each area. When the amount of projected growth in each area and the appropriate trip reduction targets are taken into account, an estimated 1,347 PM-peak-hour motor vehicle trips would be eliminated on a citywide basis.

After the TDM reduction is accounted for, the future growth included in the Preferred Scenario would generate 2,855 PM-peak-hour motor vehicle trips (see Table 7). This increase in vehicle trips represents 5.7% of the total PM-peak-hour vehicle trips projected for Palo Alto in the year 2030.

Table 7
Projected Increase in PM-Peak-Hour Motor Vehicle Trips After TDM Reductions

	Number of PM Peak-Hour Vehicle Trips							
Existing Conditions	47,206							
2030 Conditions: Preferred Scenario (Average) <sup>a</sup> Increase in PM-Peak-Hour Vehicle Trips	51,408 <b>4,202</b>							
Trip Reduction due to TDM Plans <sup>b</sup>	(1,347)							
New PM-Peak-Hour Vehicle Trips Generated	2,855							
New Trips Generated as Percentage of Total 2030 Trips <sup>c</sup>	5.7%							
Notes:								
<sup>a</sup> Based on the average of the low end and the high end of grow in the Preferred Scenario.	wth assumptions							
<sup>b</sup> Based on trip reduction targets for different areas of the city in Mitigation Measure TRANS-1a in the Comprehensive Plan Update FEIR.								
<sup>c</sup> The trip reduction of 1,347 is also subtracted from the total of calculate percentage. [2,855 / (51,408 - 1,347)=0.057]								

Source: Hexagon Transportation Consultants, Inc., 2017



#### **Trips Generated by Exempt Uses**

As described in Chapter 1, the citywide transportation impact fee currently exempts certain land uses from payment of the fee. However, the Planning Department has indicated that the number of projects that have been included in the model's 2030 growth estimates *and* that would be exempt from the TIF is negligible. Therefore, trips generated by exempt uses have not been deducted from the estimate of 2030 PM-peak-hour vehicle trips.

### **Projected Impacts Due to Growth**

As documented in the Comprehensive Plan Update Final EIR, all six of the planning scenarios examined would result in some significant transportation impacts. Because the Preferred Scenario is within the range of growth assumptions defined by the six planning scenarios, the Final EIR concluded that the Preferred Scenario would also result in significant and unavoidable transportation impacts, including impacts to intersections, to freeway segments, and to transit travel times (due to increased congestion). A significant impact to local residential streets (due to drivers avoiding increased congestion on arterials) was also projected, but would be mitigated to a less than significant level through a traffic calming program. Construction of traffic calming improvements is one element of the impact fee expenditure program presented in the next chapter.

The purpose of all the improvements presented in the next chapter is to mitigate or offset to the extent feasible the impacts of the Preferred Scenario's projected growth on all components of the transportation system, both through modifications to the roadway network and by reducing the number of single-occupant vehicle trips.



## 3. Transportation Impact Fee Improvements

This chapter presents the improvements proposed by the City to mitigate to the extent feasible the impacts of increased congestion caused by future growth. The growth in demand for the transportation system will be accommodated by the development of a safe, efficient, and environmentally sensitive multimodal transportation system. An effective multimodal transportation system will allow people to choose modes of transportation other than the single-occupant vehicle and will make bicycling, walking, taking transit, and ridesharing attractive, safe, cost-competitive and time-competitive choices. As envisioned by the City's Sustainability and Climate Action Plan and the Comprehensive Plan Update, by providing adequate infrastructure for all modes, the City's multimodal transportation system will lead to increases in alternative mode usage and reduce the number of motor vehicle trips. The City's goal is to provide access by all transportation modes to employment, housing, shopping, schools, health care, entertainment, dining, and other common trip purpose destinations. Users of the transportation system would not have rely on a car to get where they need to go.

## Scope of Improvements and Fees

With the over-arching goal of transportation system balance, the City has included a very broad range of improvements in its list of projects to be funded through Transportation Impact Fees. It focuses on bicycle and pedestrian facilities, and also includes intersection and roadway improvements that would mitigate impacts identified in the Comprehensive Plan Update Final EIR and other recent traffic studies, such as the *Expressway Plan 2040* and the *Page Mill Expressway Corridor Study Report*. The expenditure plan is rooted in the City's policies of encouraging alternative mode use, discouraging single-occupant vehicle trips, improving traffic flow without major capacity enhancements, and encouraging motorists to use arterials rather than local residential streets.

### Transitioning to a Single Citywide TIF

As described in Chapter 1, there are currently four separate Transportation Impact Fees and four separate lists of improvements to be funded with them. The improvements to be funded with the San Antonio / West Bayshore and the Stanford Research Park / El Camino Real impact fees, both of which were initiated in the 1980s, were focused primarily on adding lanes at key intersections. The Charleston – Arastradero Corridor impact fee is dedicated to improvements that will enhance bicycle and pedestrian safety in that corridor. The citywide impact fee has been spent on upgrading the City's traffic signals and on bicycle and pedestrian facilities.

Hexagon recommends transitioning to a single citywide TIF rather than the current structure of three fees that apply in specific areas and one citywide fee. The City should identify improvements in each



area that can be funded with the money that has already been collected for that area, but collect TIFs in the future (after completion of specified projects) on a citywide basis. The three area-specific fees would be allowed to "sunset" when their current balances are expended on appropriate projects. The reasons for this recommendation are as follows:

1. **Areas that are (or will be) past their identified purpose:** The development identified in the San Antonio/West Bayshore EIR and in the original nexus study for the San Antonio/West Bayshore area has already occurred. No funds have been spent out of the San Antonio/West Bayshore area funds in a very long time, and the city has either completed the projects on the list or no longer plans to do them. Thus, this area-specific fee is obsolete since the area has already been redeveloped.

Of the four projects defined in the Palo Alto Municipal Code for the Stanford Research Park / El Camino area, two are already complete (intersection of Foothill/Arastradero/Miranda and intersection of Middlefield/Oregon Expressway) and two will completed soon (Page Mill/El Camino and Page Mill/Hanover). The City and the County have recently planned further improvements for the Foothill/Arastradero/Miranda intersection complex, but the project defined when the project list for this fee was updated in 2002 (adding an additional westbound lane on Arastradero at Miranda to provide two left-turn lanes and a right-turn lane at Foothill) was completed years ago.

The nexus study for the Charleston-Arastradero fee stated that it was intended to fund a specific project, and the fee would terminate when that project was constructed. After the Charleston-Arastradero Corridor Project has been completed, the TIF that was created to help fund it should be eliminated, as its identified purpose would be accomplished.

- 2. Overlapping areas of the three specific area fees: Because the Charleston/ Arastradero area overlaps with portions of the San Antonio/West Bayshore area and the Stanford Research Park/El Camino Real area, it is now possible for one parcel to be subject to three different fees (two area-specific TIFs and the citywide TIF), while another parcel is only subject to the citywide TIF. All three of the specific area fees obviously overlap with the citywide fee. This overlap raises an equity issue. The nature of a boundary is that it arbitrarily indicates that development projects inside the boundary have impacts, but that projects outside the boundary do not. However, traffic patterns and traffic impacts are generally not so black and white. This issue is compounded when defined area boundaries overlap, and the resulting boundaries indicate that one location would generate far more impacts than another location. Most cities that have defined specific areas for TIFs do not have overlapping areas, whereby projects are subject to multiple transportation-related impact fees. Cities that define specific areas for impact fees (even if they do not overlap) need to be especially careful that the boundary defined for a fee is based on clear and recent data indicating that the projects within that area will result in impacts whereas projects outside the area will not.
- 3. Equity benefits with a single citywide TIF: When the citywide TIF was established, the projects it included (TDM program, shuttle, bike/ped projects) were clearly differentiated from the types of projects that were funded by the two older area fees (San Antonio/West Bayshore and Stanford Research Park), which were specific intersection improvements (capacity enhancements). Thus, certain areas having to pay two fees made sense, because they funded very different types of improvements. The types of improvement projects that are currently being proposed are a mixture citywide. It is hard to justify that Stanford Research Park/El Camino Real developments pay for specific improvements in that area and pay for improvements across



town when other development areas don't have the same burden. The impacts to be mitigated by the updated impact fee are those identified in the Comprehensive Plan Update FEIR, which is a citywide document.

4. Administrative Complexity and Project Readiness: It is clear that having four separate fees makes it harder for staff to keep project lists current for each fee, to collect funds, and to track funds available for specific projects. Hexagon believes that transitioning to a single list of TIF-eligible projects would simplify administration and would allow the City to spend money on projects in a more timely way, rather than waiting for a project in a specific area to become active. Geographic equity can be maintained by funding projects from all parts of the city from the single list.

The only area-specific fee that Hexagon recommends be retained in the near-term is the Charleston – Arastradero Corridor impact fee, because it is being used to fund a specific project that is not yet completed. When the improvements identified in the Charleston - Arastradero Corridor Plan are fully implemented, we recommend that this fee be terminated, as proposed in the original nexus study.

Hexagon recommends that the current balances in the San Antonio / West Bayshore and the Stanford Research Park / El Camino Real impact fee accounts be applied towards the cost of planned improvements in their respective areas. Recently proposed projects for both specific areas were described in Chapter 1. As provided for in the municipal code, the Chief Transportation Official can propose "alternative improvements in the area," subject to the City Council's approval. After the current TIF balances have been expended and the projects identified for their use have been completed, we recommend that the City eliminate the three specific area fees and charge only a citywide TIF to new development projects.

## Improvements To Be Funded by Transportation Impact Fees

Table 8 lists the improvements that will be funded through a citywide transportation impact fee, the estimated total cost of each improvement, and an estimate of the City's share of the cost (local match). Appendix A includes a complete project description for each project listed in Table 8. The list has been prepared by City staff to achieve a balanced transportation network and includes projects identified in the Comprehensive Plan Update, the Bicycle and Pedestrian Transportation Plan, the Page Mill Corridor Study, the Draft Expressway Plan 2040, and the City's Capital Improvement Program. The list has been developed to benefit all parts of the City.

All cost and local match estimates have been provided by City staff, based on the most recent planning estimates available. For projects for which an annual expenditure amount has been provided, the total cost assumes 14 years (2017 – 2030) of that annual amount. As shown in Table 8, the total cost of the improvements is \$954,778,300, and the estimated City share of these improvements is \$404,838,300.

The City's share of project costs is based on a 10% or 20% local match requirement for projects where federal, state, or county funding is anticipated, or in some cases, the balance required after expected outside grants. Four of the projects listed may also receive funding from the San Antonio / West Bayshore TIF Fund. Direct developer funding will also fund a portion of the cost for a few of the listed improvement projects. The direct developer funding is generally set forth in individual development agreements and is intended to reflect a fair-share contribution towards significant project impacts. Hexagon recommends that fair-share payments towards improvements that are included in the City's impact fee program be credited (in the amount of any such payment) towards the project's TIF



payment, in order to avoid double-charging developers for planned improvements. No credit would be given for off-site improvements that are not included in the impact fee expenditure plan.

California's Mitigation Fee Act (AB 1600) does not permit new development to pay for existing deficiencies. A reasonable relationship must be established between the amount of the impact fee and the improvement costs that are attributed to future development. Because virtually all the improvements listed in Table 8 are projects that the City would pursue even if there were no additional growth in Palo Alto, it would not be appropriate to require future development to pay for the City's entire share of the improvement costs. Since the number of additional PM-peak-hour trips to be generated by new development represents 5.7% of the total PM-peak-hour trips in the year 2030, as was shown in Table 7, that is the percentage of the City's share of total project costs that should be funded through an impact fee. As shown in Table 8, 5.7% of the City's share of the improvement costs is \$23,075,783. This is the amount that is used to calculate the citywide transportation impact fee.



Table 8
Citywide Transportation Impact Fee Improvements

Citywide Transportation Impact Fee Projects	E	Total Est. Project Cost <sup>a</sup>	City's Est. Share of Cost <sup>a</sup>		
Alma Street Enhanced Bikeway	\$	2,000,000	\$ 2,000,000		
Adobe Reach Trail	\$	100,000	\$ 100,000		
Bicycle and Ped Transportation Plan Implementation: \$4 M/year	\$	56,000,000	\$ 56,000,000		
Bol Park Path Reconstruction	\$	1,125,000	\$ 1,125,000		
California Ave Caltrain Undercrossing ADA Retrofit/Reconstruction	\$	13,000,000	\$ 13,000,000		
Citywide Bicycle Sharing System - Capital Costs	\$	2,000,000	\$ 2,000,000		
Citywide Traffic Improvements (signage, striping): \$500K/year	\$	7,000,000	\$ 7,000,000		
Citywide Traffic Calming Program: \$500K/year	\$	7,000,000	\$ 7,000,000		
Downtown Mobility and Safety Improvements	\$	1,447,100	\$ 1,447,100		
El Camino Real at Olive Avenue Traffic Signal	\$	500,000	\$ 500,000		
El Camino Real at Page Mill Rd Intersection Improvements	\$	2,400,000	\$ 240,000		
El Camino Real Pedestrian Safety and Streetscape Project	\$	5,300,000	\$ 600,000		
Embarcadero Rd at El Camino Real Improvements	\$	4,526,200	\$ 4,526,200		
Embarcadero Road at East Bayshore Road Traffic Signal	\$	500,000	\$ 500,000		
Embarcadero Road at Middlefield Road Traffic Signal	\$	500,000	\$ 500,000		
Fabian Way Complete Street	\$	1,000,000	\$ 1,000,000		
Foothill Expwy and Arastradero Rd and Miranda Ave Improvements	\$	60,000,000	\$ 6,000,000		
Geng Road Extension	\$	2,200,000	\$ 2,200,000		
Hansen Way Connector Path	\$	1,000,000	\$ 1,000,000		
Middlefield Rd Enhanced Bikeway	\$	2,000,000	\$ 2,000,000		
Middlefield Rd Midtown Corridor Improvements	\$	2,300,000	\$ 2,300,000		
Page Mill Rd at Hanover Street Intersection Improvements	\$	2,400,000	\$ 240,000		
Page Mill Rd at Porter Drive Intersection Improvements	\$	300,000	\$ 30,000		
Page Mill Road Expresssway Corridor Improvements	\$	97,000,000	\$ 9,700,000		
Palo Alto Intermodal Transit Center	\$	50,000,000	\$ 10,000,000		
Quarry Road Improvements and Transit Center Access	\$	1,000,000	\$ 1,000,000		
Railroad Grade Separations	\$	600,000,000	\$ 250,000,000		
San Antonio Rd/Ave Enhanced Bikeway	\$	2,180,000	\$ 2,180,000		
San Antonio Rd/E Charleston Rd intersection improvements	\$	1,000,000	\$ 1,000,000		
South Palo Alto Caltrain Pedestrian/Bicycle Grade Separation	\$	8,000,000	\$ 8,000,000		
Traffic Signal and Intelligent Transportation Systems: \$400K/year	\$	5,600,000	\$ 5,600,000		
Transit Traffic Signal Pre-emption and Priority	\$	1,400,000	\$ 1,400,000		
US 101/Adobe Creek Bicycle-Pedestrian Bridge	\$	14,000,000	\$ 4,650,000		
Total	\$	954,778,300	\$ 404,838,300		
Percentage to be Funded by Citywide TIF (5.7%)			\$ 23,075,783		

#### **Notes**

(a) Both the estimated project cost and the estimated city share of the project cost are planning level estimates. For projects with an annual capital cost, the total estimated cost is based on 14 years (2017-2030).

Source: Hexagon Transportation Consultants, Inc., 2017



## 4.

## **Recommended Fee Program**

This chapter presents the recommended fee structure and recommended fee level for the citywide Transportation Impact Fee.

## **Motor Vehicle Trip-Based Fee**

When the citywide impact fee was adopted in 2007, it was decided to charge fees on a per-trip basis, based on PM-peak-hour motor vehicle trips, rather than on a per residential unit or per square foot basis. Levying fees on a per trip basis provides the closest possible nexus between the traffic impact caused by a new development project and the amount that it is required to pay. Projects that would generate little additional traffic on the City's roadway network are not required to pay as much as projects that would generate more traffic.

Both the City's and VTA's standards for preparing Transportation Impact Analyses (TIAs) require preparation of peak hour trip generation estimates. Thus, an estimate of PM-peak-hour trip generation is prepared for most development projects proposed in the City of Palo Alto as part of a TIA or, in the case of some small projects, a feasibility study or traffic operations study. These trip generation estimates have been used as the basis for calculating the citywide TIF during the approval process for all development projects since the citywide TIF was established in 2007, and would continue to be used for this purpose in the future.

In the case of proposed projects that are so small that the City does not require a trip generation estimate to be prepared, City staff is responsible for calculating PM-peak-hour trip generation, using the same methodology as used for larger projects.

## **Methodology for Estimating PM-Peak-Hour Trips**

The City currently requires that a development project's estimate of PM-peak-hour trips follow the guidelines in VTA's *Transportation Impact Analysis Guidelines (TIA Guidelines)*. These guidelines require use of the trip generation rates in the most recent version of the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, or other documented source when the ITE manual does not include an appropriate rate. The most recent version of ITE's *Trip Generation Manual* is the 9<sup>th</sup> Edition, published in 2012.

As discussed in Chapter 2, one of the mitigation measures proposed in the Comprehensive Plan Update Final EIR would require projects to develop strong TDM Plans to achieve specific reductions in PM-peak-hour motor vehicle trips from the ITE rates. The target reductions vary, depending on where



the project is located, and would be enforced through monitoring and penalties. These targets take into account each district's proximity to transit services provided by Caltrain, VTA, SamTrans, the Palo Alto Shuttle, Stanford's Marguerite service, and the Dumbarton Express. The full text of the mitigation measure was provided in Chapter 2, but for ease of reference a portion of it is repeated here.

- Require new development projects above a specific size threshold to prepare and
  implement a transportation demand management (TDM) plan to achieve at least the
  following reduction in peak-hour motor vehicle trips from the rates included in the Institute of
  Transportation Engineers' *Trip Generation Manual* for the appropriate land use category and
  size. These reductions are deemed aggressive, yet feasible, for the districts indicated:
  - o Downtown area: 50 percent reduction
  - o California Avenue area: 35 percent reduction
  - o Stanford Research Park: 30 percent reduction
  - o El Camino Real Corridor: 30 percent reduction
  - o Other Areas: 20 percent reduction

TDM plans must be approved by the City and monitored by the property owner or the project proponent on an annual basis. The plans must contain enforcement mechanisms or penalties that accrue if targets are not met and may achieve reductions by contributing to citywide or employment district shuttles or other proven transportation programs that are not directly under the property owner's control.

If the City requires development projects to implement TDM Plans that meet these targets, then it will also need to allow those projects to reduce their trip generation estimates by these same percentages for impact fee calculation purposes.

These reduction percentages are substantially higher than the standard trip reduction percentages set forth in VTA's *TIA Guidelines* in Table 1, "Standard Auto Trip Reduction Rates (page 33)" for proximity to transit, preparation of a TDM Plan, and mixed-use developments. However, the *TIA Guidelines* also allow projects to use target-based trip reductions instead of the standard trip reductions when estimating a project's trip generation. In order to avoid potential confusion, Hexagon recommends that development projects use the target-based trip reduction approach when estimating trip generation in a TIA, so that the PM-peak-hour vehicle trip estimate in the project's TIA is the same as the estimate used for impact fee calculation purposes. No additional reductions should be taken beyond the target percentage established by the City. If, however, a project uses the standard reduction percentages in the TIA Guidelines in preparing a TIA, the PM-peak-hour vehicle trip generation estimate in the TIA will be higher than the estimate for TIF calculation purposes, because the standard trip reduction percentages are lower than the City's targets.

## **Calculation of the Transportation Impact Fee**

The proposed amount of the citywide Transportation Impact Fee has been calculated by dividing the cost of the improvements to be funded by the TIF by the number of additional PM-peak-hour motor vehicle trips. The cost of the improvements to be funded with impact fees, as shown in Table 8, is \$23,075,783. This amount represents 5.7% of the City's share of the total cost, so that there is a reasonable relationship between the cost being borne by projected development and the traffic generated by that development. The projected number of trips generated by new development, as shown in Table 7, is 2,855 additional PM-peak-hour vehicle trips. The resulting impact fee is \$8,083 per net new PM-peak-hour motor vehicle trip (\$23,075,783 / 2,855 = \$8,082.59).

This fee would be applied to all development projects, except those exempt from the TIF, throughout the City of Palo Alto. Projects within the Charleston-Arastradero Corridor Area would also be required to pay that area-specific fee until the corridor project is completed and the fee is terminated.



The citywide TIF rate for FY 2017-2018 is \$3,575 per net new PM-peak-hour vehicle trip. The proposed rate of \$8,083 is 126% higher than the current rate. If the City no longer charges fees for the San Antonio/West Bayshore area or the Stanford Research Park/El Camino Real area, the difference between the amount collected in total transportation impact fees under the existing fee structure and under the proposed fee structure will vary, depending on the location of the development project. The amount that would be collected also depends, of course, on the size and trip generation rate associated with the existing land use that would be replaced, if any.

It is also important to note that the proposed TIF will be collected on an estimated 2,855 PM-peak-hour vehicle trips, which is significantly fewer trips than the 2007 "Addendum to the Palo Alto TIF Nexus Study" used in its fee calculation (4,029 PM-peak-hour trips). Because the Comprehensive Plan Update Final EIR includes a mitigation measure that requires projects in different areas of the city to reduce their trips by from 20% to 50%, new development will generate fewer trips than had been assumed in the past. From the standpoint of reducing traffic congestion and achieving the goals in the City's Sustainability and Climate Action Plan, this is a clear advantage. It also means that the "per PM-peak-hour vehicle trip" TIF rate will be higher than in the past, but that the TIF will be collected on fewer trips.

### Indexing the TIF

The amount of all four of the existing transportation-related impact fees is adjusted annually to reflect inflation. The Construction Cost Index, published by *Engineering News Record*, is used to adjust the amount of the fees. It is recommended that fee levels continue to be adjusted annually, in line with the Construction Cost Index. Since most of the improvements to be funded with the citywide TIF are capital projects for which cost estimates will increase with time, indexing the TIF will allow the fees collected to also increase over time in order to keep up with construction costs.

In addition, the City should continue to follow the requirements of the Mitigation Fee Act with regard to reporting annually on expenditures from the TIF accounts and making findings every five years regarding the continuing need for development impact fees that remain unexpended or uncommitted five or more years after deposit of such fees.

## **Exemptions from the TIF**

The citywide TIF currently exempts certain types of development from the TIF, consistent with the City's impact fees for parks, community centers, libraries, and other community facilities. The existing exemptions are land uses that the City wishes to encourage. As stated in Chapter 1, the exempt uses include:

- Single-family home remodels or additions,
- Housing projects with 100% affordable housing units,
- Below Market Rate (BMR) housing units beyond the minimum number required by the City's BMR housing program,
- Public buildings and schools,
- Retail, personal service, or automotive service that is 1,500 s.f. or smaller,
- Daycare, nursery schools, and preschools,
- On-site cafeteria/recreation/childcare facilities for employee use only,
- Hazardous materials storage.

For reasons of administrative simplicity and consistency with other Palo Alto development impact fee programs and to continue to encourage development of the exempted land uses, the City should continue the above exemptions.



As noted in Chapter 1, replacement single-family homes are not subject to the citywide TIF, because a new home would generate the same number of PM-peak-hour vehicle trips as an older home, based on the ITE trip generation rates. The residential uses that are subject to the citywide TIF include: new homes on an empty parcel, second units, multi-family residential projects, and required Below Market Rate units.

#### **Exemption for Accessory Dwelling Units**

The Palo Alto City Council approved an ordinance regarding Accessory Dwelling Units (ADUs) and Junior Accessory Dwelling Units (JADUs), also referred to as second units, on May 8, 2017, in response to recent state legislation and so as to provide more variety in the City's housing stock and additional affordable housing opportunities. In light of these recent changes, the City may also wish to reconsider its existing policy of charging a TIF on second units. Adding ADUs and JADUs to the list of exemptions to the TIF would be consistent with the changes included in Ordinance No. 5412 designed to reduce the cost of creating such units. For example, ADUs and JADUs are exempt from the housing impact fee and from standard parking requirements. They are not, however, exempt from the community facilities impact fees.

There is no clear source of revenue that would replace the revenue that would be lost by exempting ADUs and/or JADUs from the TIF. The City's need for funding to address transportation needs would need to be balanced against the City's desire to increase affordable housing opportunities when deciding whether to make this change.

#### **Exemption for Retail Uses**

The City currently exempts retail, personal service, and automotive service projects that are less than 1,500 square feet from the TIF, but it may wish to consider increasing the size of retail projects that are exempt from the TIF or establishing a lower TIF rate for neighborhood-serving retail development. Although very large regional destination retail projects tend to have large traffic impacts, smaller projects may actually facilitate shorter shopping trips by residents, less congestion, and reduced vehicle miles travelled (VMT). Even though retail projects have high trip generation rates, the traffic impacts of neighborhood-serving retail can be fairly low because of short trip lengths. Depending on where a retail project is located, it may serve to reduce VMT, if its location allows some people to drive shorter distances than they otherwise would to a shopping destination. Shorter trips are also more likely to be made by walking or bicycling. Retail projects also generate sales tax revenue for a municipality.

The ITE average trip generation rate for retail (category 820) is 3.71 PM-peak-hour vehicle trips per thousand square feet (KSF). This is a much higher rate than the PM-peak-hour vehicle trip rates for residential or office uses. Based on the proposed TIF of \$8,083 per net new PM-peak-hour trip, this amounts to a TIF of \$29,986 per thousand square feet for retail projects, before accounting for any TDM trip reduction and before accounting for any existing land use. In parts of the city where a 20% TDM reduction is required, the TIF would be the equivalent of \$23,989 per thousand square feet. On the EI Camino corridor, the TIF would be the equivalent of \$20,990 per thousand square feet after accounting for the required 30% TDM reduction. In the downtown district, the TIF would be the equivalent of \$14,993 per thousand square feet after accounting for the required 50% TDM reduction in that area. It may be challenging for some retail projects to achieve the higher TDM reductions, since it is generally not feasible to institute TDM measures that apply to customers.

Thus, the City may wish to consider increasing the size of retail projects that it exempts from the TIF or reducing the TIF for neighborhood-serving ground-floor retail projects. Hexagon recommends reducing the TIF rate by 50% (from the proposed level of \$8,083 to \$4,041) for retail projects that are less than 50,000 square feet.



However, as with accessory dwelling units, there is no clear source of revenue that would replace the revenue that would be lost by exempting somewhat larger retail projects from the TIF. The City's need for funding to address transportation needs would need to be balanced against the City's desire to encourage neighborhood-serving ground-floor retail uses when deciding whether to make this change.

## **Applying the TIF to Vacant Parcels**

In addition to the trip reductions described above, development projects typically receive credit for the trips generated by existing uses on the project site, in accordance with VTA's *TIA Guidelines*. For example, if a proposed project would generate 70 PM-peak-hour trips and the existing use on the site generates 50 PM-peak-hour trips, then the net new trips generated would be 20 PM-peak-hour trips. However, if a site has been vacant for at least two years, then it is recommended that the credit for existing uses not be given when calculating the Transportation Impact Fee. To extend the above example, if the existing structure on the site has been unoccupied for over two years, then the fee should be calculated based on the full 70 PM-peak-hour trips that would be generated. The rationale for this is that the project would generate 70 new trips compared to recent and existing conditions, regardless of the site's historical use. The rationale for two years as the minimum period of vacancy is that it is consistent with VTA's *TIA Guidelines* requiring traffic studies to use traffic counts that are no more than two years old.

## **Applying the TIF on Changing Land Uses**

Under the existing citywide impact fee, if a new use replaces a use that was exempt from the TIF, the trips generated by the exempt use cannot be subtracted from the proposed trips when the TIF is calculated. Further, the TIF is applied when the land use on a given parcel changes, due to the wide variation in trip generation rates for different uses. The TIF for changing land uses is triggered when a permit for construction, a zoning change, or a conditional use permit is required. Hexagon recommends that these provisions in the City's current method for calculating the fee be retained.



## 5. Transportation Impact Fees in Other Cities

In order to consider the proposed citywide transportation impact fee of \$8,083 per PM-peak-hour trip in the context of TIFs charged by other cities in the Bay Area, Hexagon has compiled information on current TIF levels in nearby cities. Our survey focused on nearby cities on the Peninsula and in the South Bay in order to provide relevant data on existing fee amounts in the vicinity of Palo Alto. Transportation impact fees in San Francisco and Oakland are also discussed.

Most, but not all, nearby cities currently have a Traffic/Transportation Impact Fee. Cities that do not currently have a TIF include East Palo Alto, Belmont, Foster City, and Cupertino. However, Cupertino has recently conducted a nexus study, and it is likely that a TIF will be established in 2017.

The TIF in many cities is provided on a per square foot basis or per dwelling unit basis, rather than on a per vehicle trip basis. In those cases, the underlying nexus study typically has calculated a per trip amount and then converted it to a rate for common land uses, using the trip generation rates in the ITE *Trip Generation Manual*. Sometimes a per trip rate is also provided for projects that do not fall into one of the land uses for which rates have been provided. Key distinguishing points about each city's TIF program follows the TIF summary presented in Table 9.

In order to facilitate the comparison of Palo Alto's citywide TIF with TIFs charged in other municipalities that specify their TIF on a per unit or square footage basis, Hexagon has converted Palo Alto's proposed per PM-peak-hour vehicle trip rate to a per thousand square feet (KSF) rate and per dwelling unit rate for the land uses most commonly used by other cities in their TIF programs. These have been calculated with the ITE trip generation rates for the PM-peak-hour, as follows (the ITE land use code for each is shown in parentheses):

- Single family home (210): 1.00 per dwelling unit
- Multi-family housing (Apartments 220): 0.62 per dwelling unit
- Office (710): 1.49 per thousand square feet (KSF)
- R&D (760): 1.07 per KSF
- Industrial (Light Industrial 110): 0.42 per KSF
- Retail (820): 3.71 per KSF
- Hotel (310): 0.60 per room

Because the City would require projects to achieve a trip reduction based on a project's location, Table 9 also presents the calculated TIF rate with a 20%, 30%, 35% and 50% reduction, corresponding to the TDM trip reduction targets in the Comprehensive Plan Update. These rates illustrate the range of fees on a per unit basis and per KSF basis after accounting for the TDM trip reductions. As shown in Table



9, the rate per thousand square feet for retail uses is substantially higher than the other non-residential uses because the PM-peak-hour trip rate for retail uses is higher.

Table 9
Transportation Impact Fees in Nearby Cities

City or Area within City		er PM k Hour Trip		gle Family Per d.u.	M	Iulti-Family Per d.u.		Office Per KSF	ı	R&D Per KSF		Light Idustrial Per KSF		Retail Per KSF		Hotel r Room
Palo Alto <sup>a</sup>																
Current Citywide TIF	\$ \$	3,575	\$	3,575		2,217		5,327		•	\$	1,502		13,263		2,145
Proposed TIF, no TDM reduction Proposed TIF less 20% TDM reduction	-	8,083	\$ \$	8,083 6,466	\$ \$	5,011 4,009	\$	12,043 9,634		8,648 6,919	\$ \$	3,395 2,716		29,986 23,989	\$ \$	4,850 3,880
Proposed TIF less 30% TDM reduction			\$	5,658	\$	•	\$	8,430		6,054	\$		\$	-	\$	3,395
Proposed TIF less 35% TDM reduction			\$	5,254	\$	3,257	\$	7,828	\$	•	\$	-	\$	-	\$	3,152
Proposed TIF less 50% TDM reduction			\$	4,041			\$	6,022		4,324	\$	1,697		14,993		2,425
Menlo Park																
Citywide	\$		\$	3,139		1,927		4,630		3,330		2,280	\$	4,630	\$	1,834
Supplemental Downtown	\$	3/9	per I	PM peak h	our t	trip within EC	R/L	Downtown Sp	ecii	fic Plan are	а					
Redwood City																
Non-Downtown			\$	1,617	\$	992	\$	2,380	\$	1,710	\$	1,550	\$	940	\$	945
Downtown			\$	1,212	\$	744	\$	1,790	\$	1,280	\$	1,160	\$	2,960	\$	709
San Carlos			\$	3,052	\$	1,892	\$	4,547	\$	3,266	\$	2,228	\$	11,323	\$	1,831
San Mateo	\$	3,763	\$	3,422	\$	2,101	\$	3,135			\$	2,042	\$	5,893		
Los Altos			\$	6,152	\$	3,777	\$	9,076					\$	11,269		
<b>Mountain View</b> North Bayshore Area							\$	23,260	\$	23,260			\$	2,430	\$	2,071
Sunnyvale <sup>b</sup>																
Moffett Park	\$	5,958					\$	6,375	\$	6,375	\$	5,779	\$	11,052	\$	3,575
South of S.R. 237	\$	3,114	\$	3,114	\$	1,931	\$	4,640	\$	3,332	\$	3,021	\$	5,776	\$	1,868
Los Gatos <sup>c</sup>	\$	9,300	\$	8,854	\$	6,185	\$	10,258	\$	7,542	\$	6,482	\$	39,711	\$	7,598
Santa Clara							\$	1,000	\$	1,000	\$	670			\$	400
San Jose																
North San Jose Area <sup>d</sup>	\$	15,410	Ś	9,677	Ś	7,742					\$	14,440	Ś	19,880	Ś	4,299
Evergreen-East Hills Area	•	-,	\$	15,148	•	.,=	\$	13,170			•	,	\$	13,170		,
US 101/Oakland Ave/Mabury Rd	\$	35,767	per	PM peak h	our	trip that wou	ıld	use one of th	e in	nproved in	terc	hanges		•		
I-280/Winchester Blvd.	\$	25,641	per	PM peak h	our	trip that wou	ıld	use the prop	oseo	d off-ramp	imp	rovement	t			
Fremont <sup>e</sup>			\$	2,382	\$	2,382	\$	5,297	\$	3,803	\$	3,839	\$	7,253	\$	2,169
Oakland			\$	1,000	\$	750	\$	850			\$	550	\$	750	\$	650

Sources: TIF amounts are from each city's website.

Source: Hexagon Transportation Consultants, Inc., 2017



<sup>(</sup>a) The Palo Alto citywide TIF is on a per PM peak trip basis. TIF amounts for specific land uses have been calculated using ITE trip generation rates to facilitate comparison with other cities' fees. Derived rates for different land uses also shown with TDM reductions that would apply In downtown (50%), California Ave. (35%), Stanford Research Park and El Camino corridor (30%), and the rest of the city (20%).

<sup>(</sup>b) Sunnyvale applies its R&D rate to office uses in Moffett Park. Retail rates reflect 50% reduction from ITE trip generation rates.

<sup>(</sup>c) Los Gatos specifies its TIF as \$930 per DAILY trip. PM peak hour trip amount has been approximated as 10 times the daily amount. Amounts for specific land uses are calculated using DAILY ITE trip generation rates and \$930 per daily trip, and do not reflect any TDM reductions.

<sup>(</sup>d) Retail uses under 100,000 square feet in North San Jose are exempt from TIF.

<sup>(</sup>e) Fremont specifies TIF amounts for residential uses based on the number of bedrooms. Amount shown is for 2-3 bedroom units.

The three area-specific TIFs are not shown in Table 9 because it is recommended that Palo Alto transition to a single citywide TIF. If they are also considered, then the differential between Palo Alto's TIF program and the amounts charged by many other cities would be even greater.

## **Highlights of Other Cities' TIF Programs**

Because every city's TIF program is unique, we have summarized below some of the key points about each city included in Table 9.

#### Menlo Park

Menlo Park is the only Peninsula city in our survey that has both a citywide TIF and an overlapping area-specific TIF, like Palo Alto currently has. Thus, it is the only other city where a parcel may be subject to more than one TIF. The citywide TIF is provided on a per unit or per square foot basis for common land uses and as a "per PM-peak-hour trip" rate of \$3,108 for all other land uses. The supplemental TIF is applicable to properties within the El Camino Real/Downtown Specific Plan Area, and is specified as \$379.40 per PM-peak-hour trip. Even when Menlo Park's two TIFs are combined, the PM-per-peak hour rate is comparable to Palo Alto's existing citywide PM-peak-hour rate, and far less than the proposed citywide rate.

#### **Redwood City**

Redwood City provides two different TIF rates for each land use category: a downtown rate and a non-downtown rate. The downtown rates are generally 25% lower than the non-downtown rates and take into account the downtown area's proximity to transit, better bicycle and pedestrian connectivity, and the City's requirement that downtown projects prepare a TDM Plan. The City's fee schedule provides fee rates for 24 different land uses.

#### San Carlos

San Carlos provides TIF rates for 11 different land uses, and includes different rates for apartments and condominiums. Based on the rate of \$3,052 for single-family residential uses and the fact that the ITE trip generation rate for that use in the PM-peak-hour is 1.0, it can be assumed that the underlying per PM-peak-hour rate is \$3,052, which is less than Palo Alto's current rate of \$3,575 and much less than the proposed rate of \$8,083.

#### San Mateo

San Mateo provides TIF rates for five different land uses, and states that \$3,763 is the per PM-peak-hour trip rate to be used for other land uses. The fact that the per trip amount is higher than Palo Alto's existing per trip TIF, but the San Mateo fees shown for specific land uses are lower than Palo Alto's derived rates for those uses, is because standard ITE rates were not used for the San Mateo land use categories. San Mateo is currently in the process of conducting a new nexus study and updating its TIF rates.

#### Los Altos

Los Altos specifies Traffic Impact Fees for five different land uses: single-family residential, multi-family residential, senior residential units, commercial, and office. Its rates for most uses are higher than Palo Alto's current rates (as they have been derived from its current per PM-peak-hour trip fee), but lower than the proposed Palo Alto rates before TDM reductions are accounted for. Compared with Palo Alto's derived rates after accounting for TDM reductions, Los Altos's rates are higher than the rates for areas where a 30% or greater TDM reduction would be required.



#### **Mountain View**

Mountain View does not have a citywide TIF, although it is currently considering adopting one. It established the North Bayshore Development Impact Fees in 2016 for transportation, water, and sewer purposes. This fee applies only in the North Bayshore area of Mountain View, and the transportation fee is specified for Office/R&D, retail, and hotel uses. Its fee of \$23.26 per square foot for office and R&D uses is the second highest rate in our survey (only the fees in San Jose are higher). The rates for retail and hotel uses are much more moderate, since the city is trying to encourage those uses within the North Bayshore area in order to reduce overall vehicle miles traveled (VMT) to and from the area.

#### Sunnyvale

The City of Sunnyvale recently completed a new nexus study and approved new TIF rates. Sunnyvale has two different TIF rates: one for the area south of State Route 237 (SR 237) and one for the area north of SR 237. Rates are significantly higher for the area that is north of 237, commonly referred to as Moffett Park. For uses that are not otherwise specified, the per PM-peak-hour trip fee is \$3,114 for the area south of 237 and \$5,938 for the area north of 237. In Moffett Park, the city typically applies the R&D rate to office development projects. The city's retail rates reflect a 50% reduction from the ITE rates: \$6,375 per KSF in Moffett Park and \$3,332 in the remainder of the city. Like Mountain View, the City is trying to encourage more neighborhood retail within its main office park area, so that employees do not have to leave the area to shop. The retail rate for the area south of 237 is also 50% lower than it would be if based on the ITE rate of 3.71 PM-peak-hour trips per thousand square feet.

#### **Los Gatos**

Los Gatos is the only city in this survey that specifies its TIF solely on a "per trip" basis (as does the Palo Alto citywide TIF), and does not specify TIF rates for any land uses. However, Los Gatos's TIF is charged on a per <u>daily</u> trip basis, rather than a per PM-peak-hour trip basis. Because most land uses have a daily trip rate that is many times the PM-peak-hour trip rate, the Los Gatos rate of \$902 per daily trip is higher than Palo Alto's existing rate for most land uses, but lower than the proposed rate. For example, office uses (ITE category 710) have a daily trip generation rate of 11.03 trips per KSF and a PM-peak-hour trip rate of 1.49 trips per KSF. Thus, an office with 100,000 square feet would be required to pay \$1,025,790 in Los Gatos (11.03 x 100 x \$930 = \$1,025,790) before accounting for existing uses or TDM or other reductions, and \$532,675 in Palo Alto today (1.49 x 100 x \$3,575) and \$1,204,306 under the proposed rate of \$8,083 per PM-peak-hour trip before accounting for existing uses or TDM reductions.

#### Santa Clara

Santa Clara does not have a citywide TIF. The city collects traffic mitigation fees only within a defined area and only on certain land uses within that area. Santa Clara's Traffic Mitigation Program area is mostly north of the Caltrain tracks that run through the city. TIF rates are specified for the following four uses: office/R&D, industrial, warehousing/utilities/communications, and hotels. As seen in Table 9, Santa Clara's TIF rates are the lowest in this survey, except Oakland. Because Santa Clara has not revised its TIF rates annually based on the Construction Cost Index or other inflation metric (as Palo Alto does), its rates have not changed since 2010, when the last nexus study update was conducted. The City of Santa Clara is in the process of conducting a new nexus study in 2017 in order to update its Traffic Impact Fees.

#### San Jose

San Jose has four different transportation impact fees that apply in specific areas of the city, but does not have a citywide TIF. The four areas defined for the four fees do not overlap, so no proposed project



ever pays more than one TIF, and projects that do not fall into any of the four areas would not pay any TIF. San Jose has the highest impact fees of all the cities included in this survey.

#### **North San Jose Area**

The North San Jose TIF rates were established by the travel demand forecasting model used to project future traffic volumes in the area, not by standard ITE rates, and therefore account for internalization of trips within the area and much higher transit use and bicycle use than the ITE rates assume. North San Jose TIF rates are specified for the following five land uses: single-family residential, multi-family residential, industrial, hotel, and large-scale commercial, which is defined as regional-serving destination retail. Retail uses that are under 100,000 s.f. are exempt from the TIF. The industrial rate is typically applied to office use development in the area. For uses that do not fall into one of these categories, a rate of \$15,410 per PM-peak-hour trip is used. This per trip fee is higher than the proposed citywide Palo Alto TIF per trip fee. However, in recent years, the City of San Jose has offered to significantly reduce these impact fees in order to stimulate more development in the area.

#### Evergreen - East Hills Area

This traffic impact fee is charged to all new development within the boundaries of the Evergreen-East Hills Development Policy area. Just two fee amounts are specified: the residential fee is \$15,148 per unit and the commercial/office fee is \$13.17 per square foot. This residential fee is higher than the proposed fee in Palo Alto, but the commercial/office fee is lower than Palo Alto's proposed fee.

#### U.S. 101/Oakland/Mabury TIF

The U.S. 101/Oakland/Mabury TIF was established to partially fund the improvement of the U.S. 101/Oakland Road interchange and the construction of a new U.S. 101 interchange at Mabury Road. The TIF is charged to all new development in the vicinity of the existing U.S.101/Oakland Road interchange and the planned U.S. 101/Mabury interchange where the project-specific traffic analysis indicates that the development will generate net new vehicle trips on those interchanges. The current trip fee per PM-peak-hour trip is \$35,767. This is the highest fee shown in Table 9.

#### Interstate 280/Winchester Boulevard TIF

The Interstate 280 (I-280)/Winchester Boulevard TIF is charged to all new development within the boundaries of the I-280/Winchester Transportation Development Policy area, that is projected to generate vehicle trips utilizing the planned improvement. The planned improvement is the design and construction of a new northbound off-ramp from I-280 to Winchester Boulevard. The TIF will provide partial funding for this project, and was established in 2016. The fee is \$25,641 per PM-peak-hour trip projected to use the planned improvement. This TIF is also higher than the proposed Palo Alto fee.

#### Fremont

Fremont is included in the survey because it is on the other side of the Dumbarton Bridge and is thus the closest city in Alameda County to Palo Alto. Unlike other cities in this survey, it specifies its rates for residential uses in terms of the number of bedrooms in each dwelling unit. For studios and 1-bedroom units, the TIF is \$2,133; for units with 2 or 3 bedrooms, the TIF is \$2,382; and for units with 4 or more bedrooms, the TIF is \$3,626.

#### **Oakland**

Oakland adopted new transportation, capital improvements, and affordable housing impact fees as of September 2016. Oakland's transportation impact fees are lower than the rates of all the other cities included in the survey, except Santa Clara for residential uses.



#### **San Francisco**

San Francisco replaced its previous citywide Transit Impact Development Fee with a citywide Transportation Sustainability Fee (TSF) in 2015. The current fee is \$8.13 per s.f. for residential projects with 21-99 units and \$9.18 per s.f. for residential projects over 99 units. San Francisco is the only city in this survey that uses square footage as the basis of its residential rates, rather than dwelling units or vehicle trips. For non-residential projects, the fee is \$18.94 per s.f. for projects under 99,999 s.f. and \$19.99 per s.f. for projects over 99,999 s.f. Residential projects that are less than 20 units and non-residential projects with less than 800 s.f. are exempt from the fee. The non-residential rates are higher than Palo Alto's proposed citywide TIF.

San Francisco also has seven development impact fees that apply only in specific neighborhoods that include funding for transportation purposes. For example, a Community Infrastructure Impact Fee in the Market-Octavia Area includes funding for pedestrian and streetscape improvements, bicycle facilities, and transit, as well as funding for non-transportation purposes. The impact fees that apply to these seven specific districts or neighborhoods are based on adopted area plans. Some area fees are further subdivided into tiers or apply only if a project exceeds a specified Floor Area Ratio (FAR). Because of the complexity of the TSF and the area plan fees, San Francisco's TIF rates are not included on Table 9.

The nexus study that underlies the citywide Transportation Sustainability Fee addressed the relationship between the TSF and the area plan transportation fees. The area plan transportation fees were developed to address local impacts from new development, while the TSF is designed to fund projects and programs that address citywide impacts. The nexus study notes:

"Regardless of the separation or overlap between area plan fees and the TSF, the TSF should be adopted at a level such that the combined area plan and TSF amounts are less than the maximum justified TSF amounts...This approach would ensure that new development is not overpaying for transportation impacts."

The TSF nexus study identified the maximum justified transportation fee for various transportation purposes and presented the amounts of the area plan fees and the TSF to ensure that the combined rates would not exceed the maximum justified amount. The maximum justified rate is \$30.93 per s.f. for residential projects, \$87.42 per s.f. for non-residential projects (except production, distribution, and repair uses), and \$26.07 per s.f. for production, distribution, and repair uses.

## **Summary**

Three Silicon Valley cities included in this survey currently have TIFs that are higher than the proposed Palo Alto fee of \$8,083 per net new PM-peak-hour vehicle trip: Mountain View's TIF for office/R&D uses in the North Bayshore Area, Los Gatos's TIF for some land uses, and San Jose's four TIF programs for some land uses. San Francisco's Transportation Sustainability Fee is also higher than Palo Alto's proposed TIF. Los Altos and the Moffett Park area of Sunnyvale have rates than are lower than the proposed "pre-TDM reduction" fee in Palo Alto, but higher than the amount that would be charged in some areas of Palo Alto after TDM reductions are accounted for. The TIF amounts in all other cities in the survey are lower than the proposed citywide Palo Alto TIF even when the highest trip reduction (50% in the downtown area) is accounted for, and many are lower than Palo Alto's current citywide TIF of \$3,575 per PM-peak-hour trip.

Given that Palo Alto currently also charges area-specific fees in three defined areas of the city, the total TIF amount for parcels located in one or more of those areas is currently even higher than what is shown in Table 9 and much higher than most other cities. This is especially true in the Stanford Research Park/El Camino Real area, with a TIF of \$12.42 per square foot. By eventually eliminating the



three area-specific TIFs and transitioning to a single citywide TIF, the administrative process would be simplified in Palo Alto and the total TIF burden would be higher than what is charged in many other nearby cities but the differential would not be as great as it would be if the proposed new citywide rate were adopted and the area-specific TIFs were retained.



## 6. Conclusions

This nexus study reviews the City of Palo Alto's existing transportation impact fees and makes recommendations regarding the impact fee program in the future. Findings have been made in accordance with the requirements of the Mitigation Fee Act (AB 1600).

## **Existing Transportation Impact Fees**

The City of Palo Alto currently has four transportation-related impact fees, of which three are applied in specific areas of the city and one is applied citywide. These four impact fees, the year when each was first adopted, and key findings about each area are as follows:

- San Antonio / West Bayshore Area Traffic Impact Fee, 1986: This area has been redeveloped since the EIR and nexus study were prepared in 1986. .
- Stanford Research Park / El Camino Real CS Zone Transportation Impact Fee, 1989: Of
  the four intersection improvement projects listed in the municipal code for this area, two are
  complete. The City is currently coordinating with the Santa Clara County Department of Roads
  and Airports, which has jurisdiction over county expressways, to make improvements to three
  intersections on Page Mill Road.
- Charleston Arastradero Corridor Pedestrian and Bicyclist Safety Impact Fee, 2005: The
  corridor project is not yet complete. The City plans to continue to use these impact fee funds
  towards completion of the Charleston-Arastradero Corridor Plan, as provided for in the original
  nexus study.
- **Citywide Transportation Impact Fee, 2007:** The City has used funds from the citywide TIF to fund bicycle and pedestrian improvements and an upgraded traffic signal system.

## **Projected Future Growth and Resulting Impacts**

The Preferred Scenario of the Palo Alto Comprehensive Plan Update includes a range of 8,435 – 10,455 new residents and a range of 9,850 – 11,500 new jobs, The number of PM-peak-hour motor vehicle trips was projected for the low end and the high end of those growth assumptions and then averaged. It is estimated for purposes of this nexus study that there will be 4,202 additional PM-peak-hour motor vehicle trips generated by the Preferred Scenario.

The Comprehensive Plan Update FEIR includes a mitigation measure that would require all new development projects to develop TDM plans to reduce the number of PM-peak-hour vehicle trips by a specified amount, depending on the location of the project. The range of required reductions is from



20% to 50%. Based on the amount of growth projected for each area and the TDM trip reduction target for that area, there would be an estimated reduction of 1,347 PM-peak-hour trips, assuming all projects meet their TDM targets. Thus, it is estimated that 2,855 new PM-peak-hour trips would be generated by the future growth defined by the Preferred Scenario, which is 5.7% of the total estimated citywide PM-peak-hour trips in the year 2030.

The level of growth included in the six planning scenarios that were analyzed as part of the Comprehensive Plan Update process would result in significant impacts to intersections, to freeway segments, to transit travel times (due to increased congestion), and to local residential streets (due to drivers avoiding increased congestion on arterials). Because all six of the planning scenarios that were examined in the Comprehensive Plan Update would result in some significant transportation impacts and because the City's Preferred Scenario represents a level of growth that is within the range of the six planning scenarios analyzed, there would be significant and unavoidable transportation impacts with the Preferred Scenario. The purpose of the improvements to be funded by the TIF is to mitigate or offset these projected impacts to the extent feasible.

## **Improvements to Mitigate Impacts**

Hexagon recommends transitioning to a single citywide Transportation Impact Fee (TIF) rather than the current structure of three fees that apply in specific areas and one citywide fee. However, we recommend retention of the Charleston-Arastradero Corridor fee until that bicycle and pedestrian safety project has been completed. The City's Comprehensive Plan Update Final Environmental Impact Report is the basis for the nexus between the projected future development in the City and the proposed citywide TIF.

The proposed citywide TIF expenditure plan is rooted in the City's policies of encouraging alternative mode use, discouraging single-occupant vehicle trips, improving traffic flow without major capacity enhancements, and encouraging motorists to use arterials rather than local residential streets. The total estimated cost of the improvements to be funded partially with the citywide TIF is \$954,778,300. For projects for which an annual expenditure amount has been provided, the total cost assumes 14 years (2017 - 2030) of that annual amount. The City's estimated share of these total costs is \$404.838.300.

Based on the fact that 5.7% of the total PM-peak-hour motor vehicle trips generated in the year 2030 would be generated by new development, 5.7% of the City's share of improvement costs, \$23,075,783, is attributed to new development and should be funded by the citywide TIF. As noted earlier, new development will also be responsible for a significant upfront and ongoing investment in trip reductions, through implementation of TDM plans.

## **Proposed Citywide Transportation Impact Fee**

The proposed amount of the citywide Transportation Impact Fee has been calculated by dividing the cost of the improvements to be funded by the TIF by the number of additional PM-peak-hour motor vehicle trips. The resulting impact fee is \$8,083 per PM-peak-hour trip (23,075,783 / 2855 = \$8,082.59). Additional recommendations include:

- The City should continue to charge the TIF on a "per PM-peak-hour trip" basis and use the trip rates included in the most recent edition of the ITE *Trip Generation Manual*. Trip reductions due to implementation of TDM Plans should be applied in accordance with the policies of the Comprehensive Plan Update.
- It is recommended that the existing exemptions from the citywide TIF be retained, for consistency with Palo Alto's community facilities impact fees and to continue to encourage



development of those land uses. The City may wish to consider a lower per PM-peak-hour trip fee for retail uses or increasing the size of retail uses that would be exempt from the TIF. The rationale for such a change is that since many retail projects serve to reduce vehicle miles travelled (VMT) and result in lower traffic impacts than their trip generation suggests, due to short trip lengths, pass-by trips, and diverted linked trips.

- Consider adding accessory dwelling units to the list of exemptions from the citywide TIF in order to encourage their development. The City currently includes "second units" in the list of uses that are subject to the TIF.
- It is recommended that development projects on parcels that have been vacant for two or more years do not receive credit for the existing uses on the parcel, when calculating the TIF.
- Continue to adjust fee levels annually, in line with the Construction Cost Index.

## **Impact Fees in Other Cities**

The Transportation Impact Fees of numerous nearby cities were tabulated in order to provide context for considering Palo Alto's existing citywide TIF of \$3,575 and proposed TIF of \$8,083 per net new PM-peak-hour vehicle trip. To facilitate comparison with other cities' rates, Palo Alto's "per PM-peak-hour vehicle trip" rates were converted to rates per dwelling unit, per thousand square feet, and per hotel room. Of the cities surveyed, four cities currently have TIFs that are higher than the proposed level in Palo Alto: Mountain View's TIF for office and R&D uses in the North Bayshore Area, Los Gatos's TIF for some land uses, San Jose's four TIF programs for some land uses, and San Francisco's Transportation Sustainability Fee. Los Altos and the Moffett Park area of Sunnyvale have rates than are lower than the proposed "pre-TDM reduction" level in Palo Alto, but higher than the amount that would be charged in some areas of Palo Alto after TDM reductions are accounted for. The TIF amounts in all other cities in the survey are lower than the proposed citywide TIF even when the highest trip reduction (50% in the downtown area) is accounted for, and many are also lower than Palo Alto's current citywide TIF.



# Transportation Impact Fee Nexus Study Technical Appendices

# Appendix A Project Descriptions for Proposed TIF Improvements