

#### **PUBLIC WORKS DEPARTMENT**

809 Center Street ~ Room 201 ~ Santa Cruz, CA 95060 ~ (831) 420-5160

### **MEMORANDUM**

TO: Traffic Impact Fee File

**FROM:** Dan Estranero, P.E. Associate Professional Engineer

**DATE:** February 23, 2024

**SUBJECT:** FY 2024 Traffic Impact Fee Increase to \$5,027

#### **Background:**

On August 24, 2022, the City Council adopted a revised Traffic Impact Fee (TIF) rate by resolution No. NS-30,032, which establishes the amount of the fee to address traffic impacts from development. The resolution allows for annual cost increases of 2% when the ENR Cost of Construction index is 2% or greater. This memorandum documents methodology for evaluating and increasing the TIF.

#### Resolution:

"...those fees are adjusted administratively on July 1, by 2% per annum if the change in the construction cost index for the preceding year is 2% or greater as determined by the Engineering News Record, the McGraw Hill Construction Weekly."

#### Data:

#### Construction Cost Index History FY 2022

JUL 21	AUG 21	SEP 21	OCT 21	NOV 21	DEC 21	
12,237.00	12,463.00	12,464.00	12,464.00	12,467.00	12,481.00	
JAN 22	FEB 22	MAR 22	APR 22	MAY 22	JUN 22	FYavg
12,555.55	12,683.97	12,791.43	12,898.96	13,000.47	13,110.50	12,635.07

Construction Cost Index History FY 2023

JUL 21	AUG 21	SEP 21	OCT 21	NOV 21	DEC 21	
13,167.84	13,171.07	13,173.43	13,174.92	13,174.98	13,175.00	
JAN 22	FEB 22	MAR 22	APR 22	MAY 22	JUN 22	FYavg
13,175.03	13,175.93	13,176.30	13,229.57	13,288.27	13,345.00	13,202.28

#### Methodology:

The Construction Cost Index increase was calculated by taking the average cost index for FY 2023 and dividing by the average cost index for FY 2022.

a) FY 2024 Increase (%) = 
$$\left(\frac{FYavg(2023)}{FYavg(2022)} - 1\right) x(100) = \left(\frac{13,202.28}{12,635.07} - 1\right) x(100) = 4.49\%$$

\*Where FYavg = Fiscal Year Average FY2022 = July 2021 to June 2022 FY 2023 = July 2022 to June 2023

#### **TIF Increase Calculation**

Current TIF = \$4,928

Cost Increase = 2% x Current TIF = 2% x \$4,928 = \$98.56

Adjusted TIF = \$4,928 + 98.56 = \$5,026.56 = \$5,027 per PM peak hour trip

The Adjusted TIF is effective February 23, 2024. The TIF calculation form has been updated.

#### **CITY OF SANTA CRUZ**

**CALIFORNIA** 

August 6, 2021

TO: Traffic Engineering and Transportation Planning Consultants

FROM: City Engineer and Transportation Manager

SUBJECT: TRANSPORTATION STUDY REQUIREMENTS FOR DEVELOPMENT

#### INTRODUCTION

The purpose of this memorandum is to describe the key elements and procedures appropriate for a Transportation Study Requirements (TS) for the City of Santa Cruz (City). This type of study is needed for the review of nearly all new or intensified development in the City. These guidelines will assure the consistency and quality of the work product. The City General Plan 2030 provides the following policy guidance.

General Plan policies identify that development pays its proportional share of the costs to expand infrastructure needed to serve new development, strive to maintain Level of Service, and to update the Traffic Impact Fee (TIF) program to ensure development pay for circulation system improvements.

#### **NEED**

City staff will determine a need for and level of TS based on an initial assessment of the transportation attributes, motor vehicle traffic generation, and parking generation of the proposed project. A TS will be required if a proposed project disrupts existing pedestrian, bicycle, or transit circulation. Projects that are estimated to generate 50 or more vehicle trips during the P.M. peak hour require a TS. At a minimum, the parking component of a TS will be required for any project not meeting the City's parking requirement for parking.

#### **QUALIFICATIONS**

A Professional Engineer in Civil Engineering or Traffic Engineering, as licensed by the State of California, may prepare a TS. In the instance where state transportation facilities are involved, a Professional Engineer will be required to supervise the work and sign and stamp it as required by Caltrans.

#### SCOPE OF WORK

The City Engineer and Transportation Manager, in consultation with the case Planner,

will determine a preliminary scope of work for a TS. The scope will be based on the Engineer's estimate of the potential effects of the proposed project. At a minimum the site access driveways, adjacent roadways and intersections and on-site circulation and parking attributes of the project will be evaluated. The scope of the analysis will expand as necessary to identify all likely impacts of the project. Any "critical" intersection receiving 25 additional trips per hour during A.M. or P.M. peak hours as a result of the project should be analyzed. The list of "critical" intersections is included in Exhibit A of these guidelines. Notwithstanding the City's preliminary scope, the analyst is responsible for identifying all potential impacts associated with the proposed project. If the consultant anticipates or identifies effects, more than 25 new trips to critical intersections, beyond the preliminary scope, then the scope should be amended accordingly.

#### **DATA**

Data for use in the TS must be current (within a two year period, unless evidence exists of significant changes in the project vicinity which may affect the analysis in which case new counts are recommended). Data for street traffic volumes, intersection traffic volumes, intersection levels of service, speed surveys, traffic signal timing plans, and traffic collisions are available from the Public Works Department. Past transportation impact studies are also available for review. These resources should be used to the extent possible. Included as part of Exhibit A are traffic volume estimates at buildout conditions, which are to be used for cumulative analysis.

The latest edition of "Trip Generation," published by the Institute of Transportation Engineers, should be the prime source for trip generation analysis. The formulas provided for trip generation rates should be considered where appropriate. Use of the average rates provided must be justified. Other sources may be approved by the City Engineer or Transportation Manager if data is considered more reliable or appropriate for the study.

The primary parking evaluation will be based on the City's Parking Ordinance or Downtown Parking Resolution and parking requirements for specified land uses. The latest edition of "Parking Generation", mentioned above, should also be used as a resource for the parking analysis. Other documented parking studies may be used with the prior approval of the City Engineer or Transportation Manager. To the extent reasonable the latest version of "Shared Parking" prepared by the Urban Land Institute shall be used for shared parking analysis.

#### CAPACITY ANALYSIS SCENARIOS

Capacity shall be analyzed for the following scenarios:

- Existing Traffic;
- Existing Traffic + Project Traffic;
- General Plan Buildout and Updated Traffic; and
- General Plan Buildout Traffic + Project Traffic where project traffic differs from General Plan assumptions

General Plan Buildout and Updated Traffic Volumes are provided in Exhibit A of this document. Typical study hours for capacity analysis of study intersections and study arterials are: Weekday A.M. peak hour and P.M. peak hour. In other cases, it may include weekend peak hour and project peak hour at the request of the City Engineer or Transportation Manager.

The consultant shall use the latest methodology in "Highway Capacity Manual," published by the Transportation Research Board, for capacity analysis of the transportation system. **The consultant must use Synchro software for the level of service analysis component.** Other analysis software may be used with supporting reasoning if approved by City staff. Level of service calculations shall be based on optimized split and timing conditions. Future traffic analysis will use a peak hour factor of .92 for the intersections analyzed.

#### CRITERIA TO DETERMINE TRANSPORTATION SIGNIFICANCE UNDER CEQA

- a) Conflict with a program, ordinance, or policy establishing the circulation system, including transit, roadway, bicycle and pedestrian facilities.
- b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b) regarding criteria for analyzing transportation impacts.

The City's California Environmental Quality Act (CEQA) and CEQA Guidelines were revised on June 9, 2020 to comply with Senate Bill 743 (SB 743) to use vehicle miles of travel as a measure of significance in analyzing transportation impacts under CEQA as set forth in CEQA Guidelines section 15064.3(b). The City's VMT threshold and these guidelines will be used to evaluate projects for CEQA purposes. The County Travel Demand Model is available for use as needed by contacting Anais Schenk, Anais.Schenk@santacruzcounty.us at the County of Santa Cruz.

In accordance with Resolution No. NS-29,676, a project may be considered to be

significant if the VMT exceeds the following adopted thresholds of CEQA significance:

- Residential Projects: 15% below the county-wide per capita average VMT;
- Office and Service Projects: 15% below the county-wide per employee average VMT;
- Retail: no net increase in the total VMT; and
- All other land uses: no net increase in VMT

Certain projects will have a non-significant CEQA transportation impact based upon their project location and characteristics. These include:

- Small projects that generate less than 110 trips/day;
- Projects near high quality transit: within a ½ mile of a major transit stop (CPRC Section 21064.3) or a high quality transit corridor with a combined service interval frequency of 15 minutes or less during the morning and afternoon peak periods;
- Local serving retail;
- Local essential service;
- Map based screening; and
- Redevelopment projects that do not result in a net increase in VMT

Further information is provided in the attached City of Santa Cruz SB743 Implementation Guidelines completed by Kimley-Horn and Associates.

- Substantially increase hazards due to a geometric design feature (for example, sharp curves or dangerous intersections) or incompatible uses (for example, farm equipment); or
- d) Result in inadequate emergency access.

## CRITERIA TO DETERMINE TRANSPORTATION EFFECTS AND CONFLICTS WITH GENERAL PLAN POLICIES

The following criteria will be used to measure non-CEQA effects on the transportation infrastructure consistent with General Plan policies. Generally the following criteria will be used to measure potential traffic effects and the need for improvements needed to maintain level of service and the performance of the circulation system.

 The project would conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit.

- The project traffic added to existing conditions would result in the level of service deteriorating below the City standard and would be more than 3% over existing total volume at the studied intersection. The City's current level of service standard is LOS D.
- The project traffic together with General Plan buildout and update traffic would result in a drop below the level of service standard of the City of Santa Cruz. (This is defined as a cumulatively considerable effect irrespective of the proportional increase to traffic volumes.).
- The project conflicts with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities).
- If the project site design does not have adequate parking or circulation capacity to accommodate the anticipated demand. (Parking demand shall be measured first using the City Parking requirements but may be adjusted using ITE 85 percentile parking generation rates and shared parking analysis factors at the discretion of the City Engineer and Transportation Manager). The City Parking Ordinance allows reductions but these must be thoroughly substantiated and quantified in the analysis, and they are not generally all applicable to a project.

## TRAFFIC CONTROL DEVICES, PARKING CONTROL DEVICES, AND ROADWAY DESIGN FEATURES

The consultant will determine the need for new traffic control devices, parking control devices, and transportation design features based on standard traffic engineering practice.

#### MITIGATION MEASURES

For every significant impact identified as part CEQA review, the consultant shall identify and discuss mitigation measures that reduce the effects and impacts to less than significant levels. The consultant may identify a mitigation measure or develop a range of mitigation measures for each impact to improve the performance of the transportation system. Mitigation measures should be specific and feasible actions that

would actually change adverse transportation conditions. An effective mitigation measure should adequately avoid or minimize an effect or impact to a less-than-significant level. Mitigation measures should be consistent with local plans and policies. The consultant should review the City's TIF Program, which identifies circulation improvements for General Plan Buildout, for applicability.

The consultant should discuss improvements and programs, funding, implementation responsibilities, and implementation schedule. The consultant should identify monitoring objectives for the City to ensure project compliance with mitigation measures. The consultant should calculate the traffic impact fee required for the project based on the City's methodology.

#### **REPORT**

For consistency, the TS report should follow the City's format as reflected in the attached outline. A preliminary component of the full report will be a memorandum to the City Engineer and Transportation Manager which will include a project description, a summary of the assumptions used in the report (e.g. trip generation, trip distribution, parking generation) and a statement of findings that no substantial effect is anticipated beyond the original scope of the study. The City Engineer and Transportation Manager shall notify consultant of acceptance of this preliminary report prior to consultant initiating further work on the study. The full report will culminate first in an administrative draft with two (2) hard copies and an electronic file for review by City staff and once approved in a final TS report to the City including two (2) hard copies and an electronic file.

## CITY OF SANTA CRUZ TRANSPORTATION IMPACT REQUIREMENTS REPORT OUTLINE

This report outline is presented for consultants and others preparing transportation impact studies for the City of Santa Cruz. It should be noted that the outline below is all-inclusive. Certain traffic studies will not require all of the elements described below. The City Engineer and Transportation Manager will decide what elements are necessary for the analysis including study intersections and or arterials.

#### **Cover Page**

- i. Table of Contents
- ii. List of Tables, Figures, or Exhibits

#### I. Introduction

- A. Project Description (Including operating parameters and site plan)\*
- B. Project Neighborhood Description
- C. Executive Summary (for complex studies as requested by City Engineer)
  - 1. Findings
  - 2. Recommendations
- D. Organization of Report
- E. Analysis Methodology

#### II. Existing Transportation Conditions

- A. Study Area Transportation System
- B. Roadway Facilities
  - 1. Intersections (LOS)
  - 2. Safety issues
- C. Transit Services
- D. Bikeway Facilities
- E. Pedestrian Facilities
- F. Parking Facilities (On street and on-site inventory and usage)
- G. Programmed Transportation Improvements

#### III. Project Assumptions

- A. Project Trip Generation \*
- B. Project Trip Distribution \*
- C. Project Modal Split \* (If modal split is applied)
- D. Project Study Intersections\* (Including statement of findings that no substantial effect is anticipated beyond the original scope of the study)

#### IV. Existing Plus Project Traffic Analysis

- A Roadway Facilities Capacity (LOS)
  - 1. Intersections
  - 2. Arterials
- B. Traffic Safety Analysis
- C. Mitigation Measures Recommended
  - 1. Traffic Control Devices
  - 2. Roadway design features
- D. Site Circulation
  - 1. Site access
  - 2. Internal vehicular and pedestrian circulation
  - 3. Service and delivery vehicle access
  - 4. Emergency vehicle access
  - 5. Alternative transportation facilities
- E. Site Improvements and Mitigation Measures

#### V. Cumulative Traffic Analysis (General Plan Buildout and Update)

- A Roadway Facilities Analysis (LOS)
  - Intersections

#### VI. Cumulative Plus Project Traffic Analysis

- A Roadway Facilities Analysis (LOS)
  - 1. Intersections
- B. Traffic Safety Analysis
- C. Mitigation Measures Recommended
  - 1. Traffic Control Devices
  - 2. Roadway design features

#### VII. Parking Analysis

- A. Parking Requirement City Code
- B. Parking Demand Estimate (ITE "Parking Generation")
- C. Shared Parking Analysis
- D. Site Parking (Autos and Bikes)
- E. Adjacent Parking Conditions
- F. Site Modifications Recommended

#### VII. Alternative Transportation Analysis

- A. Transit Services
- B. Bikeway Facilities
- C. Pedestrian Facilities
- D. Recommended Modifications or Measures (Including Transportation System Management)

#### IX. Vehicle Miles Traveled (VMT) Analysis and Mitigation

- A. VMT Residential Component
- B. VMT Office and Service Use Component
- C. VMT Retail Use Component
- D. VMT Other Uses
- E Mitigation Measures

#### X. Findings and Recommendations

- A. Site Plan and Improvements
- B. Transportation Effects
- C. Recommendations to address Transportation Effects
- D. VMT and Impacts Under CEQA
- E. Mitigation Measures to address Significant Impacts Under CEQA

#### XI. Appendices

- A. References
- B. Data
- C. Worksheets
- D. Drawings
- E. Warrant Analyses

<sup>\*</sup> The items noted will be included in a memorandum to the City Engineer and must be approved prior to further analysis.

#### City of Santa Cruz - Public Works Traffic Impact Fee Estimate Form\* FY24

This form is based on the approved Citywide Traffic Impact Fee resolution and is used to estimate traffic impact fees. Land uses not identified in this table shall be estimated on a case by case basis by the staff of the Public Works Department. Where a traffic study is prepared for a proposed project the trip generation estimate made in that study may be used at the discretion of the decision making body.

Property Address:	APN:	
Applicant:	Appl/Permit #:	
Completed by:	Date:	

Land use	Trip Gen. Rate	Unit of	Prop. Project	Existing	Project
(ITE Land Use Code)	per PM Peak Hr	Measure	Details	Uses	Trips
(112 24114 850 8040)	A**		В	C	$\mathbf{D} = \mathbf{A} \ \mathbf{x} \ (\mathbf{B} - \mathbf{C})$
Single family residence (210)	1.01	Unit			
Apartment (220)	0.62	Unit			
Condo/ Townhouse (270)	0.62	Unit			
Senior Housing (251)	0.27	Unit			
SRO (220 / 1 vehicle)	0.61	Unit			
Hotel/Motel (320)	0.58	Room			
Office (710)	1.5	1,000 sf gfa***			
Medical Office (720)	3.57	1,000 sf gfa***			
<b>Retail</b> (814)	2.3	1,000 sf gfa***			
Retail Building Materials/	4.5	1,000 sf gfa***			
Large items (812)					
Supermarket (850)	7	1,000 sf gfa***			
Convenience Market (852)	24.1	1,000 sf gfa***			
Service Station (944)	9.7	Pump station			
General Light Industrial (110)	0.97	1,000 sf gfa***			
Manufacturing (140)	0.7	1,000 sf gfa***			
Warehousing (150)	0.32	1,000 sf gfa***			
Mini-warehouse (151)	0.02	Storage unit			
Congregate Care (253)	0.2	<b>Dwelling Unit</b>			
Assisted living (254)	0.22	Bed			
All Suites Hotel (311)	0.6	Room			
Multiplex Movie theater (445)	13.6	Screen			

Free-Standing Discount (815)	5	1,000 sf gfa***						
Nursery (817)	7.5	Acre						
Auto Parts Store (843)	5.1	1,000 sf gfa***						
Apparel Store (876)	3.3	1,000 sf gfa***						
Pharmacy no drive-thru (880)	7.2	1,000 sf gfa***						
Furniture Store (890)	0.45	1,000 sf gfa***						
Walk-In Bank	12.13	1,000 sf gfa***						
Quality restaurant (931)	7.5	1,000 sf gfa***						
High Turnover Sit Down Restaurant (932)	9.5	1,000 sf gfa***						
Fast Food w/o Drive Thru (933)	18.3	1,000 sf gfa***						
Fitness	3.53	1,000 sf gfa***						
Restaurant	0.26	Per seat						
Comment:			Total trips: D					
			CW TIF = \$5,027 X D					
This is a preliminary estima	ate.		Downtown: CW TIF X 60%					
			Soquel: CW TI	F X 82.7%				
			Water: CW TII	F X 84%				
			Ocean: CW TII	F X 92.2%				
			Mission: CW T	IF X 86.2%				
			Total TIF					

<sup>\*</sup> This form is used to estimate traffic impact fees of development based on submitted preliminary plans. Actual fees will be calculated based on final plans and uses submitted at the time of a building permit. The fee will be based on the per trip cost (may include an annual cost of construction inflation factor) at the time of submittal.

Auto Parts, Apparel, Pharmacy, and High turnover Restaurant reduced by 15% for pass-by trips. Fast food, Supermarkets and Coffee Shop were reduced by 30% for pass-by trips.

<sup>\*\*</sup>Source Institute of Transportation Engineers "Trip Generation". Rates have been adjusted to reflect pass-by-trips diverted from existing traffic stream

<sup>\*\*\*</sup> Square foot gross floor area.

# Exhibit A City of Santa Cruz Critical Intersections and General Plan Buildout and Updated Traffic Volumes

#### City of Santa Cruz General Plan Traffic with Downtown Amendments Level of Service and Mitigation Study Intersections Proposed General Plan Buildout Cumulative

Intersection	Control	Cumulative		Mitigated	Mitigated	E	stimated
		Delay	Mitgation	LOS	Delay		Cost
#2901 Western_Dr/High_St	Stop	227.7	TWLTL	D	35	Done	
#2902 Bay-Coolidge/High	Signal/Rndbt	103.3	Add wsbnd I	D	50.1	\$	2,000,000
#2903 Moore/High	Signal	5.3					
#2904 High/Laurent	4-way stop	196.3	Signalize	В	13.3	\$	400,000
#2905 River/Potrero	Signal	19.7					
			Ebnd 2l 3t 1r, wbnd 2l 3t 1r,				
#2906 River-Hwy_9/Hwy_1	Signal	244.5	nbnd 1tl 1t 2r, sbnd 2l 1tl 1t 1r	F	104.3	\$	6,000,000
#2907 River/Fern	Stop	OVER	Signalize no I esbnd	В	14.3	\$	500,000
			Ebnd 1I 1tr 1r, wbnd 1I 1tr, nbnd				
#2908 River/Encinal	Signal	202.7	1l, 1t, 1r, sbnd 1l,1t, 1tr	D	37.9	\$	300,000
#2909 Ocean-Hwy_17/Plymouth-Ocean_I	Signal	36.9					
#2910 Market/Goss-Isbel	4-way stop	16.8					
#2911 N.Branciforte/Goss	4-way stop	18.9					
#2912 Morrissey_Blvd/Fairmount_Av	Signal	10.3					
#2913 Bay/Nobel-Iowa	Signal	13					
#2914 Bay_St/Escalona_Dr	2-way stop	OVER	Escalona right turns only	С	24.9	\$	100,000
#2915 Bay_St/King_St	Signal	53.4	•				
#2916 King_St/Laurel_St	4-way stop	55.6	Add ebnd r	D	34.1	\$	100,000
#2917 Storey/King	3-way stop	93.2	Add sbnd I	D	29.3	\$	100,000
#2918 Shaffer/Highway_1	Stop	18.9					
#2919 Western/Highway_1	Signal	24.6					
#2920 Swift/Mission	Signal	72.2	Add nbnd r overlap	С	31	\$	100,000
#2921 Miramar/Mission	Signal	41.7					
#2922 Almar-Younglove/Mission	Signal	25.2					
			11,2t,1r,nbnd 11,1t,1r, sbnd				
#2923 Bay/Mission	Signal	222.5	2l,1t,1r	F	81.2	\$	4,000,000
#2924 Laurel/Mission	Signal	119.1	Add Ebnd r	F	109	\$	2,000,000
#2925 Mission/Walnut	Signal	52.5					
			Ebnd no I, 2t, 1tr, wbnd 1I, 1t,				
#2926 King/Mission	Signal	155.4	1tr,nbnd 1ltr, sbnd 2l 1ltr	E	65.9	\$	500,000
Ţ.			Ebnd 2l, 2t, 1r, wbnd 1lt,1t, 1r,				
#2927 Chestnut/Mission	Signal	164.8	nbnd 11, 1t, 1tr, sbnd 11,2t, 2r	F	164.6	\$	4,000,000
#2928 N_Pacific/River	Signal	14.3					
#2929 Center/Mission	Signal	22.3					

Intersection	Control	Cumulative Delay	Cumulative Mitgation	Mitigated LOS	Mitigated Delay	Estimated Cost
#2930 Pacific/Water-Mission	Signal	24.8				
#2931 River/Water	Signal	49.4				
#2932 Ocean/Washburn-Keenan	Signal	13.3				
#2933 Ocean/Water	Signal	172.7	Ebnd 2l, 2t, 1r, wbnd 1l,2t, 1r, nbnd 1l, 2t, 1r, sbnd 2l, 2t, 1r	F	135.1	\$ 4,000,000
#2934 Market/Water	Signal	34.2		_		
#2935 N_Branciforte/Water	Signal	76.1	Add ebnd I, nbnd r & sbnd r	E	57.2	\$ 2,000,000
#2936 Seabright/Water	Stop	OVER	Extend TWLTL & add nbnd r	Е	40.4	\$ 100,000
#2937 Morrissey/Soquel/Water	Signal	43.2				
#2938 Frederick/Soquel	Signal	55.7	Add nbnd r overlap	D	38.5	\$ 250,000
#2939 Hagemann-Trevethan/Soquel	Signal	11.4				
#2940 Park/Soquel	Signal	20.6				
#2941 Capitola_Rd/Soquel_Av	Signal	25.4				
#2942 La_Fonda_Av/Soquel_Av	Signal	10.8				
#2943 California_Ave/Bay	3-way stop	188.5	Allow nbnd t free	E	38.3	\$ 250,000
#2944 California_St/Bay	3-way stop	OVER	Allow sbnd t free	В	13.9	\$ 250,000
#2945 California_St/Laurel_St	Signal	33.5				
#2946 Chestnut/Laurel	Signal	31.9				
#2947 Center/Laurel	Signal	25.3				
#2948 Cedar/Laurel	2-way stop	27.3				
#2949 Pacific/Laurel	Signal	46				
#2950 Front/Laurel	Signal	41.8				
#2951 Front/Metro_Center	Signal	2.6				
#2952 Front/Cathcart	Signal	9				
#2953 Front/Soquel	Signal	33.3				
#2954 Front/Cooper	Signal	9.7				
#2955 River_S/Soquel	Signal	19.1				
#2956 Riverside-Dakota/Soquel	Signal	7.5				
#2957 Ocean_St/Soquel_Av	Signal	51.3				
			Esbnd 1 I, 1t, 1 tr, wsbnd 1I, 1tr			
#2958 Branciforte/Soquel	Signal	67	no splt phase	С	24.8	\$ 250,000
#2959 Seabright/Soquel	Signal	42.4	·			·
#2960 San_Lorenzo_Blvd/Broadway(Laur		19.2				
#2961 Ocean_St/Broadway	Signal	95.1	Prohibit Ifts from Ocean	D	38.2	\$ 50,000
#2962 S_Branciforte/Broadway	Signal	18.2				, , , , , , , , , , , , , , , , , , , ,
#2963 Seabright/Broadway	Signal	29.7				

Intersection	Control	Cumulative Delay	Cumulative Mitgation	Mitigated LOS	Mitigated Delay		Estimated Cost
#2964 Pacific-Center/W_Cliff-Pacific	Rndbt	15.5					
#2965 W_Cliff/Bay	3-way stop	25.9					
#2966 Pacific/Beach	3-way stop	44.8	Roundabout	С		\$	1,500,000
#2967 Cliff/Beach	3-way stop	13.4					
#2968 Riverside/Beach	Signal	7.3					
#2969 Riverside/Second-Leibrandt	2-way stop	7.8					
#2970 Riverside/3rd_St	Signal	47.4					
#2971 Riverside/San_Lorenzo_Blvd	Signal	38					
#2972 Ocean_St/E_Cliff_Dr	Signal	120.8	Add sbnd r	D	49.1	\$	100,000
#2973 Seabright/Murray	Signal	64.8	ADD wsbnd r, nbnd r & sbnd r	E	64.5	\$	1,000,000
#2974 Swift/Delaware	4-way stop	407.5	Roundabout/Signal	С	25.1	\$	1,000,000
#2975 Seventh/Soquel	Signal	26.5					
#2976 Seventh/Capitola	Signal	27.8					
#2977 Seventh/Brommer	4-way stop	34.6					
#2978 Seventh/Eaton	Signal	46.8					
#2979 Seventh/E_Cliff	3-way stop	16.7					
			Subtotal Citywide			\$	30,850,000
Beach /Pacific	3/way Stop	Beach Plan	Roundabout (included above)			\$	-
Beach/ Cliff	2-way stop	Beach Plan	Signalize for Pedestrians			\$	200,000
Riverside /Second	2-way stop	Beach Plan	Per Riverside plan			\$	250,000
WCliff/Bay	3-way stop	Beach Plan	Signalize			\$	300,000
	<u> </u>		Subtotal w Beach Area			\$	31,600,000
Front Street /Soquel Avenue	Signal	Downtown	Add 2nd wbnd left turn lane			\$	539,100
Front Street/Laurel Street	Signal	Downtown	Widen west leg			\$	539,100
Pacific Avenue/Laurel Street	Signal	Downtown	Add sbnd left turn lane			\$	281,700
Front Street Two-Way Left Turn Lane	Striping	Downtown	Add TWLT			\$	152,100
Trent en eet twe tray zent tant zane	Carping	Bommouni	Subtotal w Downtown			\$	32,830,300
			Add Contingency	20%		\$	6,566,060
			Add Alternative Transportation	15%		\$	4,924,545
			Add Neighborhhod Improve	5%		\$	1,641,515
			Subtotal w Cont & Alt Trans	0,0		\$	44,732,120
			Less City Share	15%		\$	6,709,818
			Total Traffic Impact Fee	10,0		\$	38,022,302
Total PM Peak hour trip generation pend	ina projects 1 66	62 + trip genera	_	at	90%	•	,,
plus University peak hour trips growth of		equals	9331	trips per hour	<b>33</b> /0		
· -					TIF/ Peak		
plus Downtown Plan 293 trips plus 130 C	Center 80 trips				hour trip	\$	4,482

(with 10% increase)

3/19/2020

#	Intersection	NORTHE	NORTHE	NORTHE	SOUTHE	SOUTHE	SOUTHE	FASTRN	EASTBN	FASTRN	WESTR	WESTR	WESTEN	ΤΟΤΔΙ	SOURCE
- #	intersection	LEFT			LEFT		RIGHT				LEFT		RIGHT	TOTAL	OCOROL
1	Western/High	240	_		0					164	61	448	0	1762	GP
	Bay/High	174	508	55	515		68	178		275	113		269		GP
3	Moore/High	24	7	17	45	21	41	9	880	35	24	661	21	1785	GP
4	Laurent/High	16	49	16	32	24	16	34	856	38	14	735	30	1860	GP
5	River/Potrero	90	766	86	272	737	103	129	10	76	197	9	255		GP
6	River/Hwy. 1	99		726	1109		571	490		86	561	1862	693		Downtown Plan
7	River/Fern	410	1112	0				1	0	106	0	_	0		GP
8	River/Encinal	576	563	111	8		145	210		1047	117	6	15		GP
9	Ocean-Hwy. 17/Plymouth	405	654	0	186		239	71	208	495	127	97	55		Ocean Ext
	Market/Isbel-Goss	47	154	147	202	114	1	4		36	63		218		GP
11	North Branciforte/Goss	220	70	95	3		61	40		295	33		1	1317	GP
12 13	Morrissey/Fairmount Bay/Nobel-lowa	53 100	794 717	28 98	53 42	862 1168	108 56	160 39		127 129	24 65		82 41	2407 2549	GP GP
	Bay/Escalona	27	811	41	145	1108	70		43	40	49		62		GP
	Bay/King	148	723	160	194		110	61		100	98		167	2991	GP
16	King/Laurel	171	69	60	36		10	20		154	67	262	15		GP
17	Storey/King	0				0		26		0	0		88		GP
18	Route 1/Shaffer Rd	62	0		0					51	38		0		GP
19	Western/Hwy. 1	19	113	205	203	86	44	27		25	88		232		GP
20	Swift/Mission	96	76	692	67	42	16	30		82	452	637	117	3028	GP
21	Miramar/Mission	111	31	164	103			95		58	178		89		GP
22	Almar-Younglove/Mission	38	1	276	45			0		24	219	1468	2		GP
23	Bay/Mission	146	170	133	454	194	157	166		109	222	1692	348		190 W Cliff
24	Laurel/Mission	412	223	41	33	285	23	51	2259	487	77	1886	48	5825	GP
	Walnut/Mission	125	151	59	78		85	145		182	41	1791	41	4856	GP
26	King-Union/Mission	20	6	19	1161	1	4	0	2556	3	14	1987	217	5988	GP
27	Chestnut-Hwy. 1/Mission	138	332	46	71	497	1822	2436	1060	42	33	849	93	7419	Downtown Plan
28	N. Pacific/RIVER	226	31	59	44	26	17	20	659	382	32	713	51	2260	GP
29	Center/Mission	98	0	621	0	0	0	0	843	64	423	691	0	2740	GP
30	Front-Pacific/Mission-Water	0	0	0	64	371	221	263	1133	165	166	893	39	3315	Downtown Plan
31	River/Water	111	384	252	312	426	58	82	1166	62	204	958	346		GP
32	Ocean/Kennan-Washburn	39	1540	52	59		11	40		53	47	0	39		GP
33	Ocean/Water	203	1359	96	522	1448	399	495		162	168		339		Downtown Plan
	Market/Water	0	-			0		223		0	0		128	4053	GP
	N. Branciforte/Water	322	323	78	41	219	129	458	1273	470	101	930	50		GP
	Seabright/Water	60	0	49	0	-	0			121	23		0		GP
37	Morrissey/Water-Soquel	19		30	293		75			38	63		36		GP
38	Frederick/Soquel	146	0		0		0	0		93	226	1416	0		GP
39	Hagemann-Trevethan/Soquel	77	14	34	74		86	69		53	22	1503	24		GP
40	Park/Soquel	53	18	26	128	7	70			30	12	1409	28		GP
41	Capitola/Soquel	708	16	77	47	25		20		1149	79 2		25		GP
42	La Fonda/Soquel Bay/California Ave	269	0	47	52 0					204	64		69 0	1588 1848	GP GP
44	Bay/California Ave	269			_					204	0		420		GP
45	California/Laurel	35	224	326	263		29	11	828	30	168		20		GP
	Chestnut/Laurel	141	59	95	26		76	111	982	91	79		28		GP
47	Center/Laurel	62	94	56	133		50	30		65	56		58		GP
48	Cedar/Laurel	0		14	0			68		26	0		94	2409	GP
49	Pacific/Laurel	59		44	97	59		162	1075	44	64		91	2836	508 Front TIA
50	Front/Laurel	4		254	202	366	262	165		29	227	830	195		508 Front TIA
	Front/Metro Center	14		20	0		17	14		19	6		11	1595	508 Front TIA
52	Front/Cathcart	116	569	0	0		317	193	Ö	111	0		0		508 Front TIA
53	Front/Soquel	46	523	243	193		75	70		44	498	_	79		508 Front TIA
	Front/Cooper	79		0						148	0		0		GP
	River S./Soquel	0						0		0	0		178		GP
56	Riverside-Dakota/Soquel (new	36		39						3	3		17		GP
	Ocean/Soquel	318		296						129	188		83		GP
	Branciforte/Soquel	56		79	58					112	101	579	34		GP
	Seabright/Soquel	217	45	223	90					125	179		16		GP
60	San Lorenzo/Laurel-Broadway	498	0	33	0	0				542	0	693	0	2624	GP
61	Ocean/Broadway	12		89						47	102		118		GP
62	S. Branciforte/Broadway	70	51	9		77	104	75		64	8	433	75		GP
63	Seabright/Broadway	171	242	51	10			184	394	253	47	183	13	1929	GP
64	Pacific Avenue/Center	18		549	34	162	214	0			444	172	62	1821	190 W Cliff
65	West Cliff/Bay	54		0			414	421			0		0	1762	190 W Cliff
66	Pacific/Beach	21	120				239	548		48	0		0		190 W Cliff
67	Cliff/Beach	0								0	0		0		GP
	Riverside/Beach	0											0		GP
69	Riverside/Second	0	0	0	43	164	117	0	0	5	2	7	0	338	GP