

APPENDIX A

Notice of Preparation and Public Scoping

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CITY OF OAKLAND

250 FRANK H. OGAWA PLAZA, OAKLAND, CALIFORNIA 94612 – 2032

Community and Economic Development Agency
Planning & Zoning Services Division

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I

NOTICE OF PREPARATION (NOP) OF A DRAFT ENVIRONMENTAL IMPACT REPORT (EIR) FOR PROPOSED AMENDMENTS TO THE CENTRAL DISTRICT REDEVELOPMENT PROJECT AREA PLAN

The City of Oakland Community and Economic Development Agency, Planning and Zoning Division, is preparing a Draft Environmental Impact Report (EIR) for Proposed Amendments to the Central District Redevelopment Project Area Plan (Project), and is requesting comments on the scope and contents of the EIR. The EIR will address the potential physical and environmental effects for each of the environmental topics outlined in the California Environmental Quality Act (CEQA). The City has not prepared an Initial Study and all CEQA topics will be addressed in the EIR.

The City of Oakland is the Lead Agency for the Project and is the public agency with the greatest responsibility for approving the Project or carrying it out. This notice is being sent to Responsible Agencies and other interested parties. Responsible Agencies are those public agencies, besides the City of Oakland, that also have a role in approving or carrying out the Project. When the Draft EIR is published, it will be sent to all Responsible Agencies and to others who respond to this NOP or who otherwise indicate that they would like to receive a copy.

Responses to this NOP and any questions or comments should be directed in writing to: Ulla-Britt Jonsson, Planner II, City of Oakland, Strategic Planning Division, 250 Frank H. Ogawa Plaza, Suite 3315, Oakland, CA 94612; (510) 238-3322 (phone); (510) 238-4730 (fax); or e-mailed to ujonsson@oaklandnet.com. Comments on the NOP must be received at the above mailing or e-mail address by 5:00 p.m. November 15, 2010. Please reference environmental review case number ER10-0003 in all correspondence. Comments should focus on discussing possible impacts on the physical environment, ways in which potential adverse effects might be minimized, and alternatives to the Project in light of the EIR's purpose to provide useful and accurate information about such factors. In addition, comments may be provided at the EIR Scoping Meetings to be held before the City Planning Commission and Landmarks Preservation Advisory Board (LPAB), as indicated below.

CITY PLANNING COMMISSION SCOPING MEETING November 3, 2010, 6:00 p.m. Oakland City Hall Hearing Room 1 One Frank H. Ogawa Plaza Oakland, CA 94612	LANDMARKS PRESERVATION ADVISORY BOARD SCOPING MEETING November 8, 2010, 6:00 p.m. Oakland City Hall Hearing Room 1 One Frank H. Ogawa Plaza Oakland, CA 94612
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PROJECT TITLE: Amendments to the Central District Redevelopment Project Area Plan (Project)

CASE NO.: ER10-003

PROJECT SPONSOR: City of Oakland and Redevelopment Agency of the City of Oakland

PROJECT LOCATION: The Project Area covers approximately 828 acres in downtown Oakland and is generally bounded by I-980, Lake Merritt, 27th Street, and the Embarcadero. [See attached Map]

EXISTING CONDITIONS: The City of Oakland adopted the Central District Urban Renewal Plan ("Redevelopment Plan") on June 12, 1969. The Redevelopment Plan has subsequently been amended or supplemented several times with the most recent amendment occurring on July 18, 2006. The effectiveness of the Redevelopment Plan for the Central District will terminate on June 12, 2012, and the ability of the Redevelopment Agency to receive tax increment revenue will expire 10 years thereafter in 2022. Within the Redevelopment Project Area, there are four activity areas: City Center, Chinatown, Old Oakland/Victoria Row, and Uptown Retail Center. The Redevelopment Project Area is a major economic and transportation hub in the San Francisco-Oakland Metropolitan Area and includes 24 Class A and 51 Class B office buildings with approximately 10.7 million square feet of office space. The Redevelopment Project Area includes three Bay Area Rapid Transit (BART) stations: 12th Street/Oakland City Center, 19th Street/Oakland, and Lake Merritt. More than 40 AC Transit bus lines connect the Redevelopment Project Area with other parts of Oakland and nearby communities. The Project Area may include sites that are on the Cortese List or other lists of contaminated properties.

PROJECT DESCRIPTION: The proposed Project consists of several amendments to the Redevelopment Plan. One proposed amendment would extend the duration ("effectiveness") of the Redevelopment Plan from 2012 to 2022 and extend the time period that the Redevelopment Agency can receive tax increment funds from 2022 to 2032, as allowed by Senate Bill 211 (codified at Health and Safety Code Section 33333.10 et seq.). Under the California Community Redevelopment Law ("CRL"), such an extension requires findings, among other things, that significant blight remains in the Project Area and that blight cannot be eliminated without extending the effectiveness of the Redevelopment Plan and the receipt of property taxes.

Secondly, the Project would also include an amendment to increase the cap on the receipt of tax increment revenue to account for the proposed time extension, as the Redevelopment Agency is anticipated to exceed its existing cap if the time extension is adopted. Under the CRL, such an amendment also requires findings that significant blight remains in the Project Area and that this blight cannot be eliminated without increasing the cap, as well as an analysis of the costs of projects and programs required to eradicate this blight and the relationship between this cost and the increase in the cap.

A third amendment would renew the authority for use of eminent domain in the Project Area. Under the CRL, such an amendment requires findings that significant blight remains in the Project Area, and that this blight cannot be eliminated without the use of eminent domain.

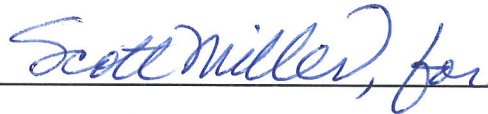
Although the redevelopment projects and programs to be facilitated by the amendments would generally remain similar to those currently being implemented, the EIR will analyze the effects of changes in the environment resulting from implementation of additional 10 years of redevelopment activities and tax increment funding. The goals and objectives of the Redevelopment Agency for the Project Area include the following: strengthening the Project Area's existing role as an important office center for administrative, financial, business services, and governmental activities; revitalizing and strengthening the Central District's historical role as the major regional retail center of the Oakland area; establishing an important cultural and entertainment center; reestablishing residential areas for all economic levels within specific portions of the Project Area; providing employment and other economic benefits to disadvantaged persons living within or near the Project Area; restoring historically significant structures; and improving the general urban design of the Project Area.

Adoption and implementation of the proposed amendments would provide a series of multiple, coordinated actions (e.g., tools, programs, and funding) to eliminate blight and facilitate revitalization and growth in the Project Area. These activities could include some or all of the following: assembly of blighted and underutilized properties into sites suitable for new development; low-cost loans, grants, subsidies, and direct improvements to blighted structures and/or properties; façade improvement and tenant improvement programs; and infrastructure improvements, including such items as streetscape improvements, installation of utilities, traffic capacity projects, mass-transit improvements, parking facilities, and storm drainage improvements, among others. The redevelopment activities also would support additional low- and moderate- income housing.

Implementation of actions defined in the Redevelopment Plan and amendments could result in the rehabilitation, reconstruction, or alteration of buildings, housing, public infrastructure, and other physical changes to the environment.

PROBABLE ENVIRONMENTAL EFFECTS: The City is seeking feedback on the potential impacts of the amendments that should be studied in the EIR. It is anticipated that the proposed project may have environmental impacts on the following, all of which will be addressed in the EIR: aesthetics, shadow and wind; air quality and greenhouse gases; biological resources; cultural and historic resources; geology, soils and seismicity; hazardous materials; hydrology, water quality and water supply; land use; noise; population and housing; public services and utilities; and traffic, transportation and circulation, among other topics.

The Draft EIR will also examine a reasonable range of alternatives to the project, including the CEQA-mandated No Project Alternative, and other alternatives that may be capable of reducing or avoiding potential environmental effects.

A handwritten signature in blue ink that reads "Scott Miller, for". The signature is written in a cursive, flowing style.

Eric Angstadt,
Deputy Director, Community & Economic Development Agency
and Oakland City Planning Director

File Number ER10-0003
Date of Notice: October 14, 2010

Attachment: Central District Redevelopment Project Area Map

November 2, 2010

Ms. Ulla-Britt Jonsson
Planner II
250 Frank H. Ogawa Plaza Suite 3315
Oakland, CA 94612
ujonsson@oaklandnet.com



SUBJECT: Comments on the Notice of Preparation of a Draft Environmental Impact Report (DEIR) for City of Oakland Proposed Amendments to the Central District Redevelopment Project Area Plan

Dear Ms. Jonsson:

Thank you for the opportunity to comment on the Notice of Preparation (NOP) for a Draft Environmental Impact Report (DEIR) for the City of City of Oakland Proposed Amendments to the Central District Redevelopment Project Area Plan. The Project Area covers approximately 828 acres in downtown Oakland and is generally bounded by I-980, Lake Merritt, 27th Street and the Embarcadero. It includes three Bay Area Rapid Transit (BART) stations: 12th Street/Oakland City Center, 19th Street/Oakland and Lake Merritt. More than 40 AC Transit bus lines connect the Redevelopment Project Area with other parts of Oakland. The proposed Project consists of 3 amendments:

- Amendment one requests to extend the duration (“effectiveness”) of the Redevelopment Plan from 2012 to 2022 and extend the time period that the Redevelopment Agency can receive tax increment funds from 2022 to 2032, as allowed by Senate Bill 211
- Amendment two requests to increase the cap on the receipt of tax increment revenue to account for the proposed time extension
- Amendment three requests to renew the authority for use of eminent domain in the Project Area.

The Alameda County Transportation Commission (Alameda CTC), on behalf of the Alameda County Congestion Management Agency (ACCMA) through the powers delegated to Alameda CTC by the joint powers agreement which created Alameda CTC, respectfully submits the following comments:

- The City of Oakland adopted Resolution No. 69475 on November 1, 1992 establishing guidelines for reviewing the impacts of local land use decisions consistent with the Alameda County Congestion Management Program (CMP). If the proposed project is expected to generate at least 100 p.m. peak hour trips over existing conditions, the CMP Land Use Analysis Program requires the City to

conduct a traffic analysis of the project using the Countywide Transportation Demand Model for projection years 2015 and 2035 conditions. Please note the following paragraph as it discusses the responsibility for modeling.

- The CMP was amended on March 26th, 1998 so that local jurisdictions are responsible for conducting the model runs themselves or through a consultant. The Alameda CTC and ACCMA have a Countywide model that is available for this purpose. The City of Oakland and the ACCMA signed a Countywide Model Agreement on November 16, 2007. Before the model can be used for this project, a letter must be submitted to the Alameda CTC requesting use of the model and describing the project. A copy of a sample letter agreement is available upon request.

Potential impacts of the project on the Metropolitan Transportation System (MTS) need to be addressed. (See 2009 CMP Figure 2). The MTS roads in the city of Oakland in the project study area are; I-980, I-580, I-880, State Highway 260, 1st Street, 5th Street, 8th Street, 12th Street, 14th Street, West Grand, West MacArthur Boulevard, Piedmont Avenue, Broadway, Webster, Brush and Market Street. .

- The DEIR should address all potential impacts of the project on the MTS roadway and transit systems. These include MTS roadways as shown in the attached map as well as BART and AC Transit. Potential impacts of the project must be addressed for 2015 and 2035 conditions.
 - Please note that the ACCMA and Alameda CTC have *not* adopted any policy for determining a threshold of significance for Level of Service for the Land Use Analysis Program of the CMP. Professional judgment should be applied to determine the significance of project impacts (Please see chapter 6 of 2009 CMP for more information).
 - For the purposes of CMP Land Use Analysis, 2000 Highway Capacity Manual is used.
- The adequacy of any project mitigation measures should be discussed. On February 25, 1993, the ACCMA Board adopted three criteria for evaluating the adequacy of DEIR project mitigation measures:
 - Project mitigation measures must be adequate to sustain CMP service standards for roadways and transit;
 - Project mitigation measures must be fully funded to be considered adequate;
 - Project mitigation measures that rely on state or federal funds directed by or influenced by the CMA must be consistent with the project funding priorities established in the Capital Improvement Program (CIP) section of the CMP or the

Regional Transportation Plan (RTP).

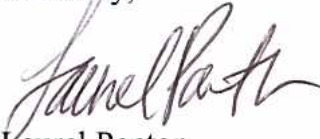
The DEIR should include a discussion on the adequacy of proposed mitigation measures relative to these criteria. In particular, the DEIR should detail when proposed roadway or transit route improvements are expected to be completed, how they will be funded, and what would be the effect on LOS if only the funded portions of these projects were assumed to be built prior to project completion.

- Potential impacts of the project on CMP transit levels of service must be analyzed. (See 2009 CMP, Chapter 4). Transit service standards are 15-30 minute headways for bus service and 3.75-15 minute headways for BART during peak hours. The DEIR should address the issue of transit funding as a mitigation measure in the context of the Alameda CTC / ACCMA policies discussed above.
- The DEIR should also consider demand-related strategies that are designed to reduce the need for new roadway facilities over the long term and to make the most efficient use of existing facilities (see 2009 CMP, Chapter 5). The DEIR should consider the use of TDM measures, in conjunction with roadway and transit improvements, as a means of attaining acceptable levels of service. Whenever possible, mechanisms that encourage ridesharing, flextime, transit, bicycling, telecommuting and other means of reducing peak hour traffic trips should be considered. The Site Design Guidelines Checklist may be useful during the review of the development proposal. A copy of the checklist is enclosed.
- The EIR should consider opportunities to promote countywide bicycle routes identified in the Alameda Countywide Bicycle Plan, which was approved by the ACCMA Board in October 2006. The approved Countywide Bike Plan is available at <http://www.accma.ca.gov/pages/HomeBicyclePlan.aspx>.
- The Alameda Countywide Strategic Pedestrian Plan, developed by the Alameda County Transportation Improvement Authority (ACTIA), was adopted by both the ACTIA and ACCMA Boards in September 2006 and October 2006, respectively. The EIR should consider opportunities to promote pedestrian improvements identified in the Plan through the project development review process. The approved Plan is available at http://www.actia2022.com/ped-toolkit/Full_Ped_Plan.pdf
- For projects adjacent to state roadway facilities, the analysis should address noise impacts of the project. If the analysis finds an impact, then mitigation measures (i.e., soundwalls) should be incorporated as part of the conditions of approval of the proposed project. It should not be assumed that federal or state funding is available.

- Local jurisdictions are encouraged to consider a comprehensive Transit Oriented Development (TOD) Program, including environmentally clearing all access improvements necessary to support TOD development as part of the environmental documentation.

Thank you for the opportunity to comment on this Notice of Preparation. Please do not hesitate to contact me at 510.350.2334 if you require additional information.

Sincerely,

A handwritten signature in dark ink, appearing to read "Laurel Poeton", written in a cursive style.

Laurel Poeton
Engineering Assistant

Cc: Beth Walukas, Manager of Planning

File: CMP – Environmental Review Opinions – Responses - 2010

Design Strategies Checklist
for the
Transportation Demand Management Element
of the
Alameda County CMP

The Transportation Demand Management Element included in the Congestion Management Program requires each jurisdiction to comply with the “Required Program”. This requirement can be satisfied in three ways: 1) adoption of “Design Strategies for encouraging alternatives to auto use through local development review” prepared by ABAG and the Bay Area Quality Management District; 2) adoption of new design guidelines that meet the individual needs of the local jurisdictions and the intent of the goals of the TDM Element or 3) evidence that existing policies and programs meet the intent of the goals of the TDM Element.

For those jurisdictions who have chosen to satisfy this requirement by Option 2 or 3 the following checklist has been prepared. In order to insure consistency and equity throughout the County, this checklist identifies the components of a design strategy that should be included in a local program to meet the minimum CMP conformity requirements. The required components are highlighted in bold type and are shown at the beginning of each section. A jurisdiction must answer Yes to each of the required components to be considered consistent with the CMP. Each jurisdiction will be asked to annually certify that it is complying with the TDM Element. Local jurisdictions will not be asked to submit the back-up information to the CMA justifying its response; however it should be available at the request of the public or neighboring jurisdictions.

Questions regarding optional program components are also included. You are encouraged but not required to answer these questions. ACTAC and the TDM Task Force felt that it might be useful to include additional strategies that could be considered for implementation by each jurisdiction.

CHECKLIST

Bicycle Facilities

Goal: To develop and implement design strategies that foster the development of a countywide bicycle program that incorporates a wide range of bicycle facilities to reduce vehicle trips and promote bicycle use for commuting, shopping and school activities. (Note: an example of facilities are bike paths, lanes or racks.)

Note: Bold type face indicates those components that must be included the “Required Program” in order to be found in compliance with the Congestion Management Program.

Local Responsibilities:

1a. In order to achieve the above goal, does your jurisdiction have design strategies or adopted policies that include the following:

1a.1 provides a system of bicycle facilities that connect residential and/or non-residential development to other major activity centers?

Yes No

1a.2 bicycle facilities that provide access to transit?

Yes No

1a.3 that provide for construction of bicycle facilities needed to fill gaps, (i.e. gap clure), not provided through the development review process?

Yes No

1a.4 that consider bicycle safety such as safe crossing of busy arterials or along bike trails?

Yes No

1a.5 that provide for bicycle storage and bicycle parking for (A) multi-family residential and/or (B) non-residential developments?

Yes No

1b. How does your jurisdiction implement these strategies? Please identify.

Zoning ordinance

Design Review

Standard Conditions of Approval

Capital Improvement Program

Specific Plan

Other

Pedestrian Facilities

Goal: To develop and implement design strategies that reduce vehicle trips and foster walking for commuting, shopping and school activities.

Local Responsibilities

2a. In order to achieve the above goal, does your jurisdiction have design strategies or adopted policies that incorporate the following:

2a.1 that provides reasonably direct, convenient, accessible and safe pedestrian connections to major activity centers, transit stops or hubs parks/open space and other pedestrian facilities?

Yes No

Note: Bold type face indicates those components that must be included the "Required Program" in order to be found in compliance with the Congestion Management Program.

2a.2 that provide for construction of pedestrian paths needed to fill gaps, (i.e. gap closure), not provided through the development process?

Yes No

2a.3 that include safety elements such as convenient crossing at arterials?

Yes No

2a.4 that provide for amenities such as lighting, street trees, trash receptacles that promote walking?

Yes No

2a.5 that encourage uses on the first floor that are pedestrian oriented, entrances that are conveniently accessible from the sidewalk or transit stops or other strategies that promote pedestrian activities in commercial areas?

Yes No

2b. How does your jurisdiction implement these strategies? Please identify.

Zoning ordinance

Design Review, such as ADA Accessibility Design Standards

Standard Conditions of Approval

Capital Improvement Program

Specific Plan

Other

Transit

Goal: To develop and implement design strategies in cooperation with the appropriate transit agencies that reduce vehicle trips and foster the use of transit for commuting, shopping and school activities.

Local Responsibilities

3a. In order to achieve the above goal, does your jurisdiction have design strategies or adopted policies that include the following:

3a.1 provide for the location of transit stops that minimize access time, facilitate intermodal transfers, and promote reasonably direct, accessible, convenient and safe connections to residential uses and major activity centers?

Yes No

Note: Bold type face indicates those components that must be included the "Required Program" in order to be found in compliance with the Congestion Management Program.

3a.2 provide for transit stops that have shelters or benches, trash receptacles, street trees or other street furniture that promote transit use?

Yes No

3a.3 that includes a process for including transit operators in development review?

Yes No

3a.4 provide for directional signage for transit stations and/or stops?

Yes No

3a.5 that include specifications for pavement width, bus pads or pavement structure, length of bus stops, and turning radii that accommodates bus transit?

Yes No

3.b How does your jurisdiction implement these strategies? Please identify.

Zoning ordinance

Design Review

Standard Conditions of Approval

Capital Improvement Program

Specific Plan

Other

Carpools and Vanpools

Goal: To develop and implement design strategies that reduce the overall number of vehicle trips and foster carpool and vanpool use.

Local Responsibilities:

4a. In order to achieve the above goal, does your jurisdiction have design strategies or adopted policies that include the following:

4a.1 For publicly owned parking garages or lots, are there preferential parking spaces and/or charges for carpools or vanpools?

Yes No

4a.2 that provide for convenient or preferential parking for carpools and vanpools in non-residential developments?

Yes No

Note: Bold type face indicates those components that must be included the "Required Program" in order to be found in compliance with the Congestion Management Program.

4.b How does your jurisdiction implement these strategies? Please identify.

Zoning ordinance
Design Review
Standard Conditions of Approval
Capital Improvement Program
Specific Plan
Other

Park and Ride

Goal: To develop design strategies that reduce the overall number of vehicle trips and provide park and ride lots at strategic locations.

Local Responsibilities:

5a. In order to achieve the above goal, does your jurisdiction have design strategies or adopted policies that include the following:

5a.1 promote park and ride lots that are located near freeways or major transit hubs?

Yes No

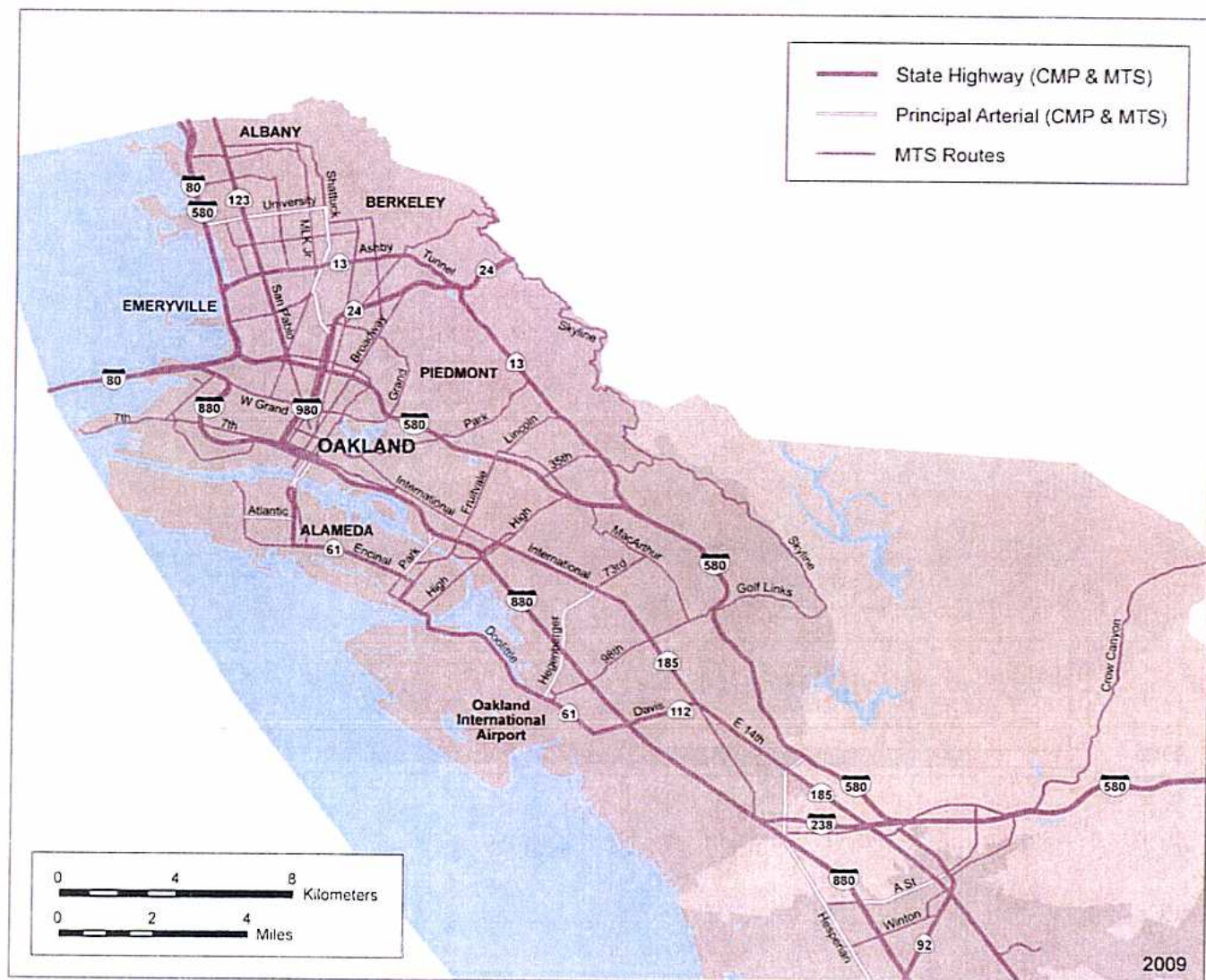
5a.2 a process that provides input to Caltrans to insure HOV by-pass at metered freeway ramps?

Yes No

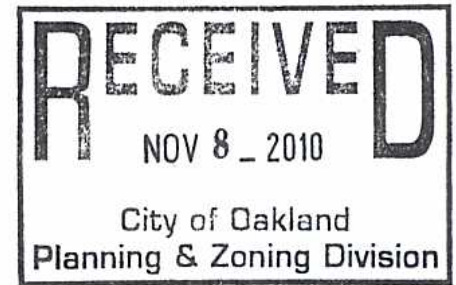
5b. How does your jurisdiction implement these strategies? Please identify.

Zoning ordinance
Design Review
Standard Conditions of Approval
Capital Improvement Program
Specific Plan
Other

Figure 2—Designated System Map for Alameda, Albany, Berkeley, Emeryville, Oakland and Piedmont



November 4, 2010



Ulla-Britt Jonsson, Planner II
City of Oakland Strategic Planning Division
250 Frank H. Ogawa Plaza, Suite 3315
Oakland, CA 94612

Re: Notice of Preparation of a Draft Environmental Impact Report (EIR) for Proposed
Amendments to the City of Oakland Central District Redevelopment Project Area Plan
(Case No. ER10-003)

Dear Ms. Jonsson:

East Bay Municipal Utility District (EBMUD) appreciates the opportunity to comment on the Notice of Preparation of a Draft Environmental Impact Report for proposed amendments to the City of Oakland (City) Central District Redevelopment Area Plan. EBMUD has the following comments.

WATER SERVICE

Any redevelopment project within the project area will be subject to the following general requirements:

EBMUD's Central Pressure Zone, with a service elevation between 0 and 100 feet, serves the project area. Main extensions that may be required to serve any specific development projects to provide adequate domestic water supply, fire flows, and system redundancy will be at the project sponsor's expense. Pipeline and fire hydrant relocations and replacements due to modifications of existing streets, and off-site pipeline improvements, also at the project sponsor's expense, may be required depending on EBMUD metering requirements and fire flow requirements set by the local fire department. When the development plans are finalized, all project sponsors should contact EBMUD's New Business Office and request a water service estimate to determine costs and conditions of providing water service to the development. Engineering and installation of new and relocated pipeline and services requires substantial lead-time, which should be provided for in the project sponsor's development schedule.

The project sponsor should be aware that EBMUD will not inspect, install or maintain pipeline in contaminated soil or groundwater (if groundwater is present at any time during the year at the depth piping is to be installed) that must be handled as a hazardous waste or that may pose a health and safety risk to construction or maintenance personnel wearing Level D personal protective equipment. Nor will EBMUD install piping in areas where groundwater contaminant concentrations exceed specified limits for discharge to sanitary sewer systems or sewage

treatment plants. Applicants for EBMUD services requiring excavation in contaminated areas must submit copies of existing information regarding soil and groundwater quality within or adjacent to the project boundary.

In addition, the applicant must provide a legally sufficient, complete and specific written remedial plan establishing the methodology, planning and design of all necessary systems for the removal, treatment, and disposal of all identified contaminated soil and/or groundwater. EBMUD will not design the installation of pipelines until such time as soil and groundwater quality data and remediation plans are received and reviewed and will not install pipelines until remediation has been carried out and documentation of the effectiveness of the remediation has been received and reviewed. If no soil or groundwater quality data exists or the information supplied by the applicant is insufficient EBMUD may require the applicant to perform sampling and analysis to characterize the soil being excavated and groundwater that may be encountered during excavation or perform such sampling and analysis itself at the applicant's expense.

WATER RECYCLING

EBMUD's Policy 8.01 requires that customers use non-potable water, including recycled water, for non-domestic purposes when it is of adequate quality and quantity, available at reasonable cost, not detrimental to public health and not injurious to plant, fish and wildlife to offset demand on EBMUD's limited potable water supply. The project area falls within and around the main recycled water pipeline infrastructure of the EBMUD's East Bayshore Recycled Water Project service area. Redevelopment projects within the project area present several opportunities for recycled water uses ranging from landscape irrigation, toilet flushing and other non-potable commercial and industrial uses. EBMUD recommends that the City and project sponsors maintain continued coordination and consultation with EBMUD as they plan and implement specific projects that are part of the redevelopment plan regarding the feasibility of providing recycled water for appropriate non-potable uses.

WATER CONSERVATION

Individual projects may present opportunity to incorporate water conservation measures. EBMUD would request that the City to include in its conditions of approval a requirement that the project sponsors comply with the California Model Water Efficient Landscape Ordinance (Division 2, Title 23, California Code of Regulations, Chapter 2.7, Sections 490 through 495). The project sponsor should be aware that Section 31 of EBMUD's Water Service Regulations requires that water service shall not be furnished for new or expanded service unless all the applicable water-efficiency measures described in the regulation are installed at the project sponsor's expense.

Ulla-Britt Jonsson, Planner II

November 4, 2010

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If you have any questions concerning this response, please contact David J. Rehnstrom, Senior Civil Engineer, Water Service Planning at (510) 287-1365.

Sincerely,



for

William R. Kirkpatrick
Manager of Water Distribution Planning

WRK:AMW:sb

sb10_218.doc

OAKLAND PLANNING COMMISSION

PLEASE INCLUDE THIS LETTER IN THE FILE REGARDING THE DRAFT ENVIRONMENTAL IMPACT REPORT (DEIR.) FOR THE CENTRAL BUSINESS DISTRICT.

THE IDEA OF A BLANKET E.I.R. IS A LEFTOVER FROM THE HOUSING BUBBLE INSANITY THAT IS NOW OVER. THE REDEVELOPMENT AGENCIES IN CONGLOMERATION HELPED CAUSE THE ECONOMIC RECESSION BY OVERENCOURAGING DEVELOPMENT. THEY THREW THE ECONOMY OUT OF BALANCE. THE SITUATION THAT EXISTED IN 2006 IS PROBABLY NOT COMING BACK IN MY LIFETIME. IT WILL TAKE A LONG TIME FOR THE HOUSING MARKET TO NORMALIZE. IF THE REDEVELOPMENT AGENCIES TRY TO BRING BACK THE BUBBLE, REFUSING TO LEARN FROM THE PAST, THEN A "DOUBLE DIP" RECESSION IS INEVITABLE. IT WOULD BE WISER, GIVEN THE ECONOMY, TO EMBRACE A "SLOW GROWTH" POLICY.

THERE WAS TALK OF EXTENDING TAX INCREMENTS. THIS IS MONEY THAT IS DESPERATELY NEEDED FOR THE GENERAL FUND. JUST LIKE HOUSEHOLDS IN HARD TIMES, OAKLAND NEEDS TO PRIORITIZE APPROPRIATELY. OAKLANDERS WANT APPROPRIATE SAFETY AND EMERGENCY SERVICES SUCH AS POLICE AND FIRE. WE WANT OUR STREETS REPAIRED. WE WANT SOCIAL SERVICES SUCH AS AFTER SCHOOL PROGRAMS, JOB TRAINING (PARTICULARLY FOR UNEMPLOYED CONSTRUCTION WORKERS), CHILD CARE, LIBRARIES,

QUALITY BUS SERVICES, AND WELL MAINTAINED PARKS AND PUBLIC AREAS. WE DON'T NEED UNDER WATER CONDOS, OVERPRICED APARTMENTS AND "TRANSIT VILLAGES". WHAT WITH BUS TRANSIT BEING CUT BACK WE FACE THE PROSPECT OF "TRANSIT VILLAGES" WITHOUT ADEQUATE TRANSIT, IN OTHER WORDS "SLUMS". WHEN PEOPLE MOVE IN TO REDEVELOPMENT PROJECTS THEY REQUIRE THE SAME SERVICES WE ALL DO. I PRESUME THEY PAY THEIR TAXES, BUT THE LION'S SHARE OF THEIR TAXES, THE "TAX INCREMENT", GOES TO THE REDEVELOPMENT AGENCY AND CANNOT BE USED FOR NECESSARY SERVICES. THIS, COMBINED WITH THE ECONOMIC EFFECTS OF THE PREDICTABLE HOUSING CRASH IS THE PERFECT RECIPE FOR THE SITUATION AS IT IS IN OAKLAND.

SOMEONE ASKED WHAT WAS CONSIDERED "BLIGHT" AND WAS TOLD THAT PARKING LOTS WERE CONSIDERED BLIGHT. THE CENTRAL BUSINESS DISTRICT INCLUDES HISTORIC RESIDENTIAL DISTRICTS SUCH AS THE LAKESIDE APARTMENT DISTRICT AS WELL AS BUSINESSES. PARKING IS ALREADY EXTREMELY INADEQUATE, BOTH FOR BUSINESSES AND RESIDENTS. I AM SURE I AM NOT THE ONLY PERSON WHO ROUTINELY LEAVES TOWN TO SHOP SOMEWHERE ELSE WHERE PARKING IS EASY. THAT IS TAX MONEY LEAVING OAKLAND. THE ANTI-CAR CULTISTS ARE NOT BEING REALISTIC WHEN THEY EXPECT US TO GIVE UP OUR CARS. IF THEY SUCCEEDED IN ERADICATING THE PRIVATE AUTOMOBILE THEY WOULD CAUSE ANOTHER MAJOR ECONOMIC

CRASH AND BURN (WE WILL EVENTUALLY PHASE OUT GAS RUN VEHICLES)
IT IS UNREALISTIC TO ASSUME THAT OAKLAND'S "NIGHT LIFE"
WILL SUCCEED IF PATRONS HAVE TO ENDURE LONG WAITS AT
DANGEROUS BUS STOPS AND A VERY EARLY CURFEW BECAUSE THE BUSES
DONT RUN. THOSE OF US WHO LIVE IN HISTORIC DISTRICTS ALSO
REQUIRE THOSE PARKING LOTS SO WE CAN PARK OUR CARS WITHOUT
ENDLESSLY CIRCLING, BURNING GAS, AND GETTING FRUSTRATED.
(ALSO A PLACE TO PARK ALLOWS US TO CHOOSE PUBLIC TRANSPORTATION
OR BIKEING) A PARKING LOT IS NOT BLIGHT TO MOST OF
OUR LOCAL RESIDENTS AND BUSINESSES. IT IS A USEFUL AND
NECESSARY SERVICE. INSTEAD OF IMPOSING YOUR DEFINITION
OF "BLIGHT", WHY NOT SURVEY LOCAL RESIDENTS AND SMALL
BUSINESSES AS TO WHAT THEY THINK IS BLIGHT IN THEIR OWN
NEIGHBORHOOD. IN MY NEIGHBORHOOD I THINK YOU WOULD FIND WE
ARE CONCERNED ABOUT ~~SMOKE~~ LITTER AND GRAFFITI AS BLIGHT

WHAT IS BEING CALLED THE "CENTRAL BUSINESS DISTRICT" COVERS A VERY
DIVERSE AREA. IT INCLUDES BUSINESSES, HISTORIC RESIDENTIAL DISTRICTS,
FORMER GAS STATIONS AND GARAGES, DRY CLEANERS, BROWN FIELDS,
ETC. IT INCLUDES LANDFILL AND OTHER LIQUEFACTION ZONES, RAILCUT
SEWER LINES ETC. YOU CAN NOT HONESTLY, ACCURATELY AND
RESPONSIBLY ISSUE A BLANKET E.I.R. YOU NEED TO GO LOT
BY LOT OR EVEN FOOT BY FOOT TO BE CAREFUL AND THOROUGH.

A FEW YEARS AGO AT THE HEIGHT OF THE BUBBLE A PROJECT WAS BUILT ACROSS FROM MY APARTMENT. THE LOT WAS A FORMER GAS STATION AND ALSO CONTAINED TOXIC CHEMICALS FROM THE DRY CLEANER NEXT DOOR. SHORTLY AFTER THE PROJECT WAS BUILT I CAME DOWN WITH CLASS 4 CANCER WHICH ACCORDING TO MY ONCOLOGIST WAS ENVIRONMENTALLY CAUSED. WHAT WILL IT TAKE FOR YOU TO TAKE A CAREFUL, THOROUGH AND RESPONSIBLE APPROACH TO ENVIRONMENTAL IMPACTS? DURING THE BUBBLE THERE WAS UNCONTROLLED DEVELOPMENT FOR DEVELOPMENT'S SAKE. THIS IS THE PHILOSOPHY OF THE CANCER CELL.

SINCERELY,

ORNA JASSON

1428 JACKSON

ORLAND, CA 94618

(510) 654-2465

(510) 836-3514

C L ORLAND CITY COUNCIL

MAYOR ELECT JERN QUAN

MEMORANDUM

TO: City of Oakland Planning Commissioners

FROM: Joann Pavlinec, Secretary – Landmarks Preservation Advisory Board (LPAB)

SUBJECT: **LPAB Comments - Scoping Session for the
Central District Redevelopment Project Area Plan**

DATE: November 19, 2010

At their November 8, 2010 meeting, the Landmarks Preservation Advisory Board (LPAB) provided the following comments on information and analysis that should be contained in the Draft Environmental Impact Report for the Central District Redevelopment Project Area Plan.

The Chair summarized the Board's discussion, comments and recommendations as follows:

- 1) Include introductory or explanatory remarks of what a programmatic EIR is, and examples of eminent domain, so that the reader can better understand the document.
- 2) Articulate the City's commitment to and the importance of historic preservation and rehabilitation of not only buildings, but neighborhoods, cultural sites and landscapes, as an integral part of the Project Area's development objectives, and as a way to enhance the Project Area. This should include the rehabilitation of a historic resource(s) as a way to mitigate blight.
- 3) Clearly spell out definitions and methodologies of the blight study, and any other studies/reports that are necessary as part of EIR, consistent with State law.
- 4) Provide a detailed analysis of cultural, historical and archeological resources in the Project Area.
 - a. Describe the architectural and historic context, that is, the significant aspects and patterns of development that characterize historic neighborhoods located within the Project Area to become the foundation for decisions made about how to treat historic resources that might be negatively and/or positively impacted by the redevelopment plan.
 - b. Include photos and examples of each neighborhood that would aid in understanding the architectural historic characteristics of those neighborhoods.
 - c. Provide maps of the area that clearly indicate the historic resources, including but not limited to all historic structures and districts, local and national landmarks and Potentially Designated Historic Properties (PDHPs).
 - d. Provide maps of all the historic resources, as outlined above, that might be impacted in the Project Area including the projects that are

mentioned in the current Central District Urban Renewal Plan such as Broadway/Valdez, Lake Merritt, streetscape projects and basement backfill and repair projects.

- 5) Include all applicable polices of the Historic Preservation Element that apply to the Redevelopment Plan.
- 6) Include actions, tools, programs and funding sources to eliminate blight in a manner consistent with Historic Preservation Element Policy 3.12, which addresses Substandard or Public Nuisance Properties - adding special acquisition and rehabilitation efforts for existing and Potential Designated Historic Properties for resale and rehabilitation. The HPE provides approaches for implementation of the Policy 3.12.
- 7) Include local hiring preference for projects within the Project Area.

APPENDIX B

Major Projects List

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
December 2010- January 2011

PROJECT NAME	APPLICANT CONTACT	LOCATION (ADDRESS AND/OR APN)	COUNCIL DISTRICT	DESCRIPTION	CITY CONTACT	STATUS
RESIDENTIAL PROJECTS						
Pre-Application Discussions						
1 ~California Hotel	EBALDC Natalie Bonnewit (510)287-5353	3501 San Pablo Ave APN: 005 -0479-002-01	3	■Rehabilitation and conversion of the existing studio and affordable units and ground floor commercial into 137 affordable apartments	Jason Madani 238-4790	Pre-application filed.
2 5701 Skyline Blvd	Armstrong Real Estate Advisors (310)600-6682	5701 Skyline Blvd APN: 048H-7523-009-00 048H-7523-008-00 048H-7523-008-03	1	■Proposal change Zoning and General Plan designation	Lynn Warner 238-6983	Pre-application filed.
3 Felton Acres	Robert Felton (510)548-4637	Devon Way APN: 048H-7600-007-00	1	■Subdivision into 25 units and two new roads	Lynn Warner 238-6983	Pre-application filed.
4 9400 International Blvd	Acts Community Development Colby Northridge (949)660-7272	9400-9500 International Blvd APN: 046 -5423-022-00 046 -5423-001-01 046 -5423-018-002	7	■56 affordable units	Leigh McCullen 238-4977	Pre-application filed.
Application Submitted – Under Review						
5 ~116 E 15th Street	Satellite Housing, Inc. (510)647-0700	116 E 15th Street, 1507 2nd Ave, 1521 2nd Ave APN: 020 -0181-016-00 020 -0181-013-01 020 -0181-005-01	3	■90 affordable senior units	Leigh McCullen 238-4977	Application filed. Environmental scoping underway.
6 ~4311-4317 Macarthur Blvd	Pacific Companies/AMG (818)317-4168	4311- 4317 Macarthur Blvd APN:030 -1982-121-00 030 -1982-122-00	4	■115 apartment senior housing facility ■3,446 S.F. retail	Lynn Warner 238-6983	Application filed. Environmental scoping underway.
7 ~St. John's Episcopal Church Parking and New Sanctuary	St. John's Episcopal Church Jerry Moran (510)557-1015	5928 Thornhill Dr, 1707 Gouldin Rd APN: 048F-7390-003-03 048F-7390-004-09	4	■Demolition of house at 5928 Thornhill Drive ■Constructing a new access bridge over creek ■Restoration of the creek ■Construction of a 5,500 S.F. sanctuary	Cesar Quitevis 238-6343	Application filed. NOP and Initial Study published 03/06/08. DEIR published 11/17/10. PC DEIR hearing 12/15/10.
8 Uptown Parcel 4 (Telegraph/19th Street)*	Forest City Residential, Inc. Susan Smartt (415) 836-5980	Telegraph/19th Street/New Street/Williams Street	3	■370 residential units	Catherine Payne, Major Projects, 238-6168	Application filed. Design Review Committee 07/25/07.
9 1443 Alice Street*	The Real Estate Transformation Group Mark Borsuk (415)922-4740	1443 Alice Street / 1434 Harrison Street APN: 008 -0626-016-00 008 -0626-023-00	2	■245 residential units	Darin Ranelletti 238-3663	Application filed. Environmental scoping underway. Design Review Committee 05/23/07. Project inactive.

* 10K PROJECT (project includes residential units located in Downtown)

~Denotes new project, a recent change to the project description, or status.

Compiled by Planning and Zoning, (510) 238-3941.

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10	~325 7th Street*	YHLA Yui Hay Lee (510)836-6688	325 7th Street APN:001 -0189-005-00 001 -0189-013-00 001 -0189-014-01	2	■382 residential units ■9,000 S.F. commercial	Heather Klein 238-3659	Design Review Committee 11/0707. NOP published 12/18/07. DEIR published 10/18/10. LPAB DEIR hearing 11/8/10. PC DEIR hearing 12/1/10. FEIR preparation underway.
11	1309 Madison Street*	Toby Levy (415)777-0561	1309 Madison Street APN:002 -0079-005-00	2	■72 condominium units	Lynn Warner 238-6983	Application filed. Design Review Committee 09/05/07.
12	~250 12th Street*	YHLA Yui Hay Lee (510)836-6688	250 12th Street APN:002-0069-002	2	■215 residential units ■8,000 S.F. retail	Heather Klein 238-3659	Withdrawn
13	Emerald Views * (formerly 19th Street Residential Condominiums)	Ian Birchall (415)512-9660	222 19th Street APN: 008-0634-003-00	3	■370 residential units ■933 S.F. cafe	Heather Klein 238-3659	Application filed. NOP published 11/09/07. DEIR preparation underway. LPAB for design review 04/14/08. Design Review Committee 04/23/08.
14	~Skyline Ridge Estates	Collim Mbanugo (510) 272-9610	Equestrian Trail APN: 037A-3141-001-15	6	■22 single-family lots	Heather Klein 238-3659	Denied
Application Approved							
15	~Aspire Public Schools	Charles Robitaille 925-698-1118	1009 66th Ave APN:041-4056-003-00	6	■Demolish vacant industrial building/construct a school with 420 students	Aubrey Rose 238-2071	Application not formally filed with the City. The Charter School is a state school. Building permit #B1004127.
16	~Cathedral Gardens *	AEH Housing Benny Kwong (415)295-8857	2126 M L King Jr Way 616 21st St. 620 21st St. APN:008 -0659-023-00 008 -0647-016-00 008 -0647-017-00	3	■100 affordable housing ■Rehabilitation of the Rectory building	Peterson Vollmann 238-6167	Planning Commission approval 07/20/10.
17	Lion Creek Crossing (formerly Coliseum Gardens)	EBALDC Carlos Castellmos (510) 287-5335	66th Ave. at San Leandro Street APN-Multiple	6	Phase IV ■72 residential units	Catherine Payne 238-6168	Planning Commission approval 02/04/09. General Plan Amendment City Council approval 03/17/09. Under construction.
18	720 E 11th Street	Robert Stevenson (415)786-6631	720 E 11th Street APN: 019 -0033-010-02	2	■55 affordable units	Moe Hackett 238-3973	Planning Commission approval 01/21/09. Building permit #B0904389.
19	~1032 39th Street	Madison Park Financial (510)452-2944	1032 39th Street APN: 012 -0953-027-00	1	■25 residential units in Oakland ■75 residential units in Emeryville	Catherine Payne, 238-6168 Miroo Desai Emeryville Senior Planner Senior Planner (510) 596-3785	Oakland Planning Commission 12/3/08. Emeryville City Council approval 01/20/08. Extension granted 11/22/10.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
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20	The Creekside Mixed Use Project formerly (5132 Telegraph)	George Hauser Hauser Architects (415)519-5398	5132 Telegraph Ave APN: 014 -1226-013-00	1	■120 residential units ■7,700 S.F. of commercial	Darin Ranelletti 238-3663	Application filed. Design Review Committee 03/28/07 and 05/23/07. EIR Scoping Session 01/09/08. NOP published 12/21/07. DEIR published 08/15/08. Planning Commission approval 11/19/08.
21	~1417-1431 Jefferson Street*	Menlo Capital group LLC Bob Hemati (415) 762-8200	1417-1431 Jefferson Street APN: 003 -0071-018-00 003 -0071-017-00	5	■54 residential units ■3,000 SF ground floor commercial	Ulla-Britt Jonsson, 238-3322	Approval 07/09/08. NEPA environmental review underway.
22	~Wattling Street	Phil Lesser (650)347-6014	3927 Wattling Street APN: 033-2170-003-00	5	■18 condominium units ■61 townhome units	Leigh McCullen 238-4977	Application filed. Environmental scoping underway. Design Review Committee 10/24/07. Planning Commission approval 06/18/08. Revisions submitted 10/20/10.
23	~St Joseph's	BRIDGE Housing Corp Smitha Seshadri (415) 989-1111	2647 International Blvd APN: 025 -0701-004-01	5	■Rehabilitation of the historic building ■84 units senior housing ■15,000 S.F. office	Joann Pavlinec 238-6344	Application filed. LPAB 08/13/07 and 09/24/07. Planning Commission certification of the FEIR and project approval 12/19/07. Building permit for Phase I #B0705698. Planning Commission approval of Phase II 08/05/09.
24	~2985 Ford Street	8855 San Leandro St. LLC (510)465-3700	2985 Ford Street APN:025 -0673-007-00	5	■56 condominium units ■15 work/live units	Robert Merkamp, 238-6283	Application filed. Planning Commission approval of project and TPM 11/07/07. Extension granted 2/19/10.
25	~Bakery Lofts	Madison Park Financial Frank Flores (510)452-2944	945 53rd Street APN: 049 -1173-002-00	1	<i>Phase III</i> ■61 units ■3161 S.F. of commercial	Lynn Warner 238-6983	Application filed. Design Review Committee 03/28/07. Planning Commission approval 08/01/07. Extension granted. Grading permit #GR0800085. Building permit #B0705781 expired.
26	Courthouse Condominiums (formerly 2935 Telegraph Ave.)	MBH Architects (510) 865-8663	2935 Telegraph Ave.	3	■142 residential units ■3,000 S.F. retail	Joann Pavlinec 238-6344	Application filed. NOP and Initial Study published 10/06/06. DEIR published 03/19/07; Design Review Committee 03/28/07 and 05/23/07. Planning Commission certification of the FEIR and project approval 08/01/07. Planning Commission 04/01/09 for revisions to Conditions of Approval. Applicant withdrew request for revisions 04/20/09. Building Permit #B0901385.

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27	HFH Apartments	Andy Getz (510)652-4191	1401-1405 Wood Street APN: 0000-0310-012-00	3	■Phase I 159 apartments ■Phase II 142 apartments	Eric Angstadt 238-6190	Planning Commission approval 08/01/07. Grading permit #GR0800100.
28	4801 Shattuck Ave	Steven Tiffin (510)550-4200	4801 Shattuck Ave APN: 013-1162-009-01 013-1162-009-02 013-1162-010-00	1	■44 units	Peterson Vollmann 238-6167	Design Review Committee 01/24/07. Planning Commission approval 04/04/07. Appeal denied by City Council 07/17/07. Litigation ruling in favor of project. Extension granted 09/11/08.
29	1538 Broadway*	Forum Design Marc DiGiacomo (415)252-7063	1538 Broadway APN: 008-0622-007	3	■69 residential units ■Ground floor food sales	Peterson Vollmann 238-6167	Administrative approval 03/07/07. Extension granted 03/05/09.
30	~2116 Brush Street	AGI Capital Tom Holt (415) 775-7005	2101-2116 Brush Street; 760 22nd Street APN: 003 -0025-010-00 thru 011-00 003-0035-006-00 thru 005-00 003-0023-007-01 thru 011-02	3	Parcel A ■63 residential units Parcel B ■18 residential units Parcel C ■65 residential units	Heather Klein 238-3659	Design Review Committee 10/25/06. Planning Commission approval 02/07/07. Extension granted 07/25/07. Extension granted 01/20/10.
31	459 23rd Street	Toby Levy (415)777-0561	459 23rd Street APN: 008 -0658-004-01 008 -0658-002-01	3	■60 residential units ■Ground floor retail	Peterson Vollmann 238-6167	Approved 12/28/06. Revision to increase the number of units to 70 approved 08/14/07. Grading permit expired. Extension granted 12/15/08.
32	1614 Campbell Street	Madison Park Frank Flores (510)452-2944	1614 Campbell Street APN:007 -0560-001-02	3	■92 live/work conversion	Peterson Vollmann 238-6167	Planning Commission approval 12/13/06. Revised to include only live/work units. Revision approved 07/29/08.
33	377 2nd Street*	Marge Vincent Vanguard Properties (415) 321-7077	377 2nd Street APN: 001 -0143-008-00 001 -0143-007-00 001-0143-010-00	3	■96 units ■4,000 S.F. retail	Heather Klein 238-3659	LPAB 06/12/06. LPAB for design review 10/16/06. Planning Commission approval 12/13/06. Extension granted 1/12/09.
34	3250 Hollis	Bill Lightner (415)267-2900	3250 Hollis Entire Block of 007-0593	3	■46 live/work units ■74 residential units	Peterson Vollmann 238-6167	Design Review Committee 08/23/06. Planning Commission approval 10/18/06. Extension granted 12/21/06. Extension granted 08/13/09.
35	Hollis 34	Dogtown Development (510)428-1714	3241 Hollis Entire Block of 007-0620	3	■124 live/work units	Peterson Vollmann 238-6167	Application filed. Design Review Committee 08/23/06. Planning Commission approval 10/18/06. TPM approval 10/18/06. Extension granted 01/16/09.

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36	~Tassafaronga Village	Housing Authority of the City of Oakland Bridget Galka (510)587-2142	68-81st Ave. & 1001 83 rd Ave. APN:042 -4281-007-04 042 -4280-001-01 041 -4206-001-00	7	<ul style="list-style-type: none"> ■General Plan Amendment from Business Mix to Mixed Housing Type ■Redevelopment Plan Amendment from Industrial to Residential ■Rezoning ■179mixed housing residential (apartment, live/work, for sale, and affordable) 	Aubrey Rose 238-2071	Design Review Committee 05/24/06. Planning Commission approval and Mitigated Negative Declaration certification 06/20/06. City Council approval of General Plan Amendment, Redevelopment Plan Amendment, and Rezoning 10/03/06. Planning Commission approval of TTM 02/13/08. City Council approval of TTM 06/08 Building Permit # #B0801540; Project under construction.
37	~721-741 Broadway *	Carona Engineering Debo Sodipo (510)444-8311	721-741 Broadway APN: 001-0201-015-00	3	<ul style="list-style-type: none"> ■48 residential units ■5 live/work units ■2,300 S.F. retail 	Joann Pavlinec 238-6344	LPAB 06/12/06. Planning Commission approval 8/16/06. Planning Commission approval for administrative design review 10/04/06. TPM approval 05/24/07. Extension granted 08/16/09.
38	460 Grand Ave	Jim Burns (510)339-8880	460 Grand Ave APN: 010-0779-012-00 010-0779-014-01 010-0779-015-01	3	<ul style="list-style-type: none"> ■ 74 residential units 	Darin Ranelletti, 238-3663	Design Review Committee 02/22/06. Planning Commission approval 06/07/06. Appeal denied by City Council 07/18/06. Extension granted 05/20/09.
39	2538 Telegraph Ave*	Rina Davis 2538 Telegraph LLC (510)390-4408	2538 Telegraph Ave 437 26th St APN: 009 -0683-021-01 009 -0683-024-00	3	<ul style="list-style-type: none"> ■ 97 residential units ■ 9,000 S.F. of commercial space 	Catherine Payne, 238-6168	Design Review Committee 11/16/05.; Planning Commission approval 01/04/06. Extension granted 12/10/08. TPM granted 02/19/09.
40	51st & Telegraph, Civiq	Roy Alper 5110 Telegraph, LLC (510)550-7175	Area bounded by Telegraph, 51st and Clark Streets APN: - Multiple	3	<ul style="list-style-type: none"> ■ 68 residential units ■Less than 3,000 S.F. of commercial space ■4 buildings built over, ■Subterranean Parking 	Darin Ranelletti 238-3663	Design Review Committee 11/16/05. Planning Commission approval 1/18/06. Appealed to City Council. Appeal withdrawn at City Council 03/21/06. Extension granted 09/08/08.
41	~116 6th St*	Affordable Housing Associates Adam Deromedi (510) 649-8500	116 6th Street 609 6th Street APN: 001-0173-009-00	2	<ul style="list-style-type: none"> ■70 senior affordable apartment units 	Heather Klein 238-3659	Planning Commission approval 01/21/09. Building permit #B1003049.
42	Valdez & 23rd Street Project*	The Enterprise Group Walter Cohen (415) 221-2534	Valdez St./Webster/23rd St./24th Streets APN: 008-0668-004-00 008-0668-009-07 008-0668-005-00	3	<ul style="list-style-type: none"> ■281 residential units ■500 car parking structure including 250 public spaces ■12,000 S.F. retail 	Heather Klein 238-3659	Design Review Committee 10/26/05; Planning Commission approval 12/07/05. TPM approval 02/28/06. Extension granted 09/19/07. Extension granted 01/21/09.

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43	Emerald Parc	Tom Dolan (510) 839-7200	2400 Filbert Street APN: 005-0433-018-04	3	■55 townhomes	Peterson Vollmann 238-6167	Planning Commission approval. 11/16/05. Appeal denied by City Council 02/21/06. Extension granted 02/14/08 and 02/19/09.
44	Arcadia Park	Pulte Homes Andy Cost (925) 249-3200	98th Ave. at San Leandro St., APN - multiple	7	■168 residential units (previously approved for 366 residential units)	Darin Ranelletti 238-3663	Planning Commission approval 9/21/05. City Council denial of appeal and approval of General Plan amendment, rezoning approval and project 12/06/05. P-job permit issued. Project under construction. Revisions approved by Planning Commission 08/05/09. Additional revisions under review.
45	Red Star	National Affordable Communities David Booker (949) 222-9119	1396 5th Street APN: 004-0069-004-00	3	■119 affordable senior units ■3,300 S.F. commercial space	Darin Ranelletti 238-3663	Design Review Committee 04/27/05. Planning Commission approval 06/17/05. Revised project submitted 04/16/08. Design Review Committee 05/28/08. Extension granted 06/06/08 and 06/15/09.
46	~2501 Chestnut Street	Bridge Housing Kristy Wang (415) 989-1111	2501 Chestnut Street APN: 005-0436-002-00	3	■50 live/work units	Heather Klein 238-3659	Design Review Committee 08/11/04. Planning Commission approval 10/06/04. Vesting TPM submitted 08/21/06. Extensions granted 09/29/06, 11/13/07, 10/15/08, and 10/15/10. Site cleanup occurring.
47	Jackson Center Two*	EBOP Associates, LLC	11th, 12th, and Alice Streets APN: 002-0075-002-00	2	■110 condominium units ■5,000 S.F. retail	Heather Klein 238-3659	Design Review Committee 07/23/03; Planning Commission approval 09/03/03. Application filed for revisions to project. Design Review Committee 07/27/05; Administrative approval 09/16/05. TPM approval 02/14/06. Building permit #B0504575 expired. Extension granted 08/20/09.
48	~1331 Harrison Project*	Toby Levy (415)777-0561	14th and Harrison Street APN: 002-0065-006-01	2	■98 condominium units ■9,000 S.F. commercial ■Structured parking	Heather Klein 238-3659 Catherine Payne, 238-6168	Planning Commission approval 12/3/03. Design Review Committee approval for revisions 03/23/05. Project revisions approved administratively 04/25/05. Foundation permit #B0504335 expired. Extension granted 04/20/09. An application to re- establish a previous parking lot on the site filed 09/16/09 (Case File Number CU09-197). City Council approval of parking lot 07/20/10.

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49	~ 3884 Martin Luther King Jr. Way	Neil Cotter (650) 259-9303	3884 Martin Luther King Jr. Way APN: 012-0968-031-00	1	■40 residential units	Darin Ranelletti 238-3663 Kathy Kleinbaum, Redevelopment Division, 238-7185	Planning Commission approval 9/20/06. Extension granted 6/18/09.
50	~ 3860 Martin Luther King Jr. Way	Neil Cotter (650) 259-9303	3860 Martin Luther King Jr. Way APN: 012 -0968-030-01	1	■34 residential units	Darin Ranelletti 238-3663	Planning Commission approval 9/06/06.
51	~188 11th Street *	Lakeshore Partners Tom Peterson (510) 444-7191	176 11th Street, 198 11th Street, 1110 Jackson APN: 002 -0081-008-00 002-0081-007-00 002-0081-002-00	2	Option 1 ■287 residential units ■3,660 S.F. retail Option 2 n99 affordable apartment units n18,000 S.F. health clinic and ground floor commercial	Heather Klein 238-3659	Option 1: Planning Commission approval 12/07/05. Vesting TPM approval 07/31/06. Demolition permit #RB0603034. Extension granted 10/09/07. Extension granted 12/16/08. Option 2: approved administratively 11/24/10.
52	~2847 Peralta Street	William Lightner (415)267-2900	2847 Peralta Street APN: 007 -0589-018-02 007 -0589-023-00	3	■76 dwelling units and 24 live work units	Peterson Vollmann 238-6167	Planning Commission approval 01/18/06. Grading permit #GR0600068. Extension granted 05/05/08. Extension granted 09/22/09.
53	Siena Hills	Hillside Homes Edward Patmont (925) 946-0583	Between Rilea Way and Greenridge Drive on Keller Ave. APN: 04A-3457-033-01	6	■22 single-family homes	Heather Klein 238-3659	DEIR published 01/05/05; FEIR published 2/18/05; Planning Commission certification of the FEIR and approval of the project 03/02/05; TTM approval 06/1/05. Grading permit #GR0500061. Building permits # RB0501810-13 and 15-18. City Council GHAD approval 12/05/06. Project under construction. Extension granted 06/18/08.
54	~City Walk City Center T10 (2005)*	Alta City Walk, LL (415)888-8075	13th/14th/MLK/Jefferson APN: 002-0029-001-00	3	■3,000 S.F. retail ■252 residential units	Patrick Lane, Redevelopment Agency 238-7362 Don Smith, Bldg. Permits, 238-4778	Planning Commission approval 08/18/04. Building permit #B0500525. Project under construction.
55	Monte Vista Villas (formerly Leona Quarry)	The DeSilva Group David Chapman (925) 828-7999	7100 Mountain Boulevard APN: 037A-3151-001-01	6	■214 residential units	Bill Quesada, Building Services, 238-6345	City Council approval 12/03/02; City Council re-approval 02/17/04; Grading permit #GR0400025. Project under construction.

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MIXED-USE PROJECTS							
Pre-Application Discussions							
Application Submitted - Under Review							
56	1938 Broadway*	Encinal Jackson, LLC CB Wong (510) 628-9060	1930 Broadway 1944 Broadway 1941 Franklin APN: 008-0638-007-07 008-0638-005-00 008-0638-007-08	3	<ul style="list-style-type: none"> ■ approx. 85,200 S.F. retail/fitness club ■ approx. 829,500 S.F. of commercial space ■ 220 residential units ■ 384 parking stalls ■ Rehabilitation of the Tapscott Building 	Heather Klein 238-3659	Withdrawn
57	Kaiser Center	Tomas Schoenberg The SWIG Company (415)291-1100	300 Lakeside Drive Area bounded by 20th and 21st Streets and Webster and Harrison Streets	3	<ul style="list-style-type: none"> ■ Demolition of 280,000 S.F. ■ 2 new towers: 42-stories with 780,000 S.F. office 34-stories with 565,000 S.F. office and 22,000 S.F. retail 	Heather Klein 238-3659	NOP published 05/22/08. Environmental Scoping Session before the LPAB 06/09/08 and Planning Commission 06/18/08. DEIR published 8/23/10. LPAB DEIR hearing 10/4/10. PC DEIR hearing 10/6/10. FEIR preparation underway.
58	Oak Knoll Redevelopment Project	SunCal Oak Knoll LLC Pat Kelliher (510)251-0711	167 acre site 8750 Mountain Blvd. APN: Multiple	7	<ul style="list-style-type: none"> ■ 960 residential units (408 SFD, 248 townhomes, 304 condominiums) ■ 82,000 S.F. commercial 	Eric Angstadt 238-6190	Request for General Plan conformity 05/06. Director's determination of General Plan conformity 05/16/06. Request for amended General Plan conformity 12/06. Director's determination of amended General Plan conformity 12/20/06. NOP and Initial Study to prepare a Supplemental EIR issued 02/08/07. Environmental Scoping Session 02/28/07. Planning Commission denied the Appeal and upheld the General Plan determination 03/07/07. SEIR was published 09/06/07. Public hearing for the Draft SEIR 10/10/07. Design Review Committee 09/26/07. SunCal requests no further work fall of 08.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
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59	Mandela Grand Mixed Use Project	KS Properties, LLC Peter Sullivan (415)362-1700	13.3 acre site bounded by Mandela, W. Grand, Poplar, and 18th Street	3	■1,577 residential units ■approx. 300,000 non-residential S.F.	Eric Angstadt 238-6190	Environmental application filed. NOP published 04/06/06. Environmental Scoping Session before LPAB 04/17/06 and Planning Commission 04/19/06. DEIR published 12/18/06. DEIR hearings before Planning Commission 01/17/07 and LPAB 01/29/07. FEIR and response to comments published 06/29/07. Project inactive.
60	Gateway Community Development Project (The Gateway)	Pacific Thomas Capital Randall Worsley (925) 939-7401	East 12th St. between 25th Ave. and Derby St.; APN - multiple	5	■810 residential units ■26,000 S.F. commercial	Darin Ranelletti 238-3663	Application filed. NOP published 11/23/05. Environmental Scoping Session 12/07/05. DEIR published 08/10/07. DEIR hearing session 09/05/07. Project inactive.
Application Approved							
61	~Mandela Transit Village	Capital Stone Group Dr. Thomas Casey (510) 689-8094	1357 5th Street APN 0000-0390-010-07	3	■120 residential units ■38,500 sq. ft. commercial	Darin Ranelletti 238-3663	Originally approved by Planning Commission on 8/6/03. Re-approved by Planning Commission on 2/18/09.
62	~Macarthur BART Transit Village	Macarthur Transit Community Partners, LLC Deborah Castles (510) 273-2002	7 acre site located between Telegraph, 40th, and Macarthur and Highway 24	1	■624 residential units ■42,500 S.F. retail/commercial space	Catherine Payne 238-6168 Kathy Kleinbaum, Urban Development, 238-7185	Planning Commission certification of the FEIR and project approval 06/04/08. City Council approval of the Rezoning on 07/15/08. Owner Participation Agreement and Development Agreement approval by City Council 07/21/09. Stage 1 FDP pending approval of the City council 12/21/10. Stage 2 FDP application filed 12/17/10.

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63	Oak to Ninth Mixed Use	Oakland Harbor Partners, LLC Patrick Van Ness (925) 463-1122	64.2 acre waterfront site bounded by Fallon Street, Embarcadero Road, 10th Ave., and the Oakland Estuary APN: 0430-001-02, 0430-001-04 (por), 0460-003,004,0465-002, 0470-002 (por).	3 & 2	<ul style="list-style-type: none"> ■ General Plan Amendment from ■ Central City East Redevelopment Plan Amendment and Central District Urban Renewal Plan Amendment ■ New Planned Waterfront Zoning District ■ Zoning Map Amendments ■ 3,100 residential units ■ 200,000 S.F. commercial ■ 3,950 structured parking spaces ■ 29.9 acres public open space ■ 2 renovated marinas; 170 boat slips ■ wetlands restoration area 	Eric Angstadt 238-6190	DEIR published 09/01/05. Design Review Committee 01/25/06. FEIR published 02/01/06. PRAC 02/08/06. LPAB 02/27/06. Planning Commission approval 03/15/06. Appeal filed 3/24/06. City Council denial of the appeal and approval of the project, amendments, rezoning, etc 06/20/06 and 07/18/06. Under litigation. Revised EIR published 09/30/08. Revised EIR certified by City Council on 1/20/2009.
64	Wood Street (formerly Central Station) Mixed-Use Project	Carol Galante BUILD West Oakland, LLC PCL Associates, LLC (415) 989-1111 Andy Getz HFH Central Station Village, LLC Central Station Land, LLC (510) 652-4191	West Oakland Station Site – 16th and Wood Streets APN: various	3	<ul style="list-style-type: none"> ■ 1557 residential units (including 186 live/work units) ■ 13,000 S.F. commercial ■ 1.39 acres public open space ■ 2.82 acres private open space ■ Renovation of train station 	Eric Angstadt 238-6190	General Plan and Zoning Amendments required. DEIR published; Planning Commission certification of the FEIR and approval of the project 03/16/05. Appeal denied by City Council 05/17/05. Individual projects including Pacific Cannery Lofts, 14th Street Apartments, Zephyr Gate, and HFH Apartments proposals are approved.
65	Jack London Square Redevelopment	Jack London Square Partners, Dean Rubinson, (415)391-9800	Eight Development areas within Jack London Square bounded by Alice, 2nd, Harrison, and Embarcadero. APN - Multiple	3	<i>Master Plan-</i> 1.2 million S.F. of mixed-use retail, commercial, and office Sites A-B,D,E,H, I: (1,700 seat movie theater, 250 room hotel, supermarkets, restaurants, and offices) Site C (10 Clay Street/505 Embarcadero West) (Ferry Landing) Site F (65 Harrison Street) (Jack London Market) Site G (255-2nd Street) (Jack London Parking Garage) 66 Franklin (Haslett Building)	Catherine Payne 238-6168	DEIR published 09/08/03; FEIR published 2/11/04. Planning Commission approval 03/17/04. City Council approval 04/04. Site C, F, and G completed.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
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66	~1640 Broadway Mixed Use Project*	1640 Broadway Associates Marge Cafarelli (415) 512-8118	17th and Broadway 1640 Broadway APN: 008-0622-001-01	3	■177,600 S.F. of office ■4,710 S.F. ground floor retail ■Structured parking ■Alternative approved for 254 residential units with ground floor retail	Heather Klein 238-3659	Project approved 10/00; all residential alternative approved by Planning Commission 10/01. Administrative extension of approval granted for one year 10/04. Planning Commission re-approval 05/04/05. Vesting TPM approved 11/21/06. Extension granted 05/21/08.
67	Broadway West Grand (formerly known as Negherbon Mixed Use Project)*	Signature Properties Doug Park (925) 463-1122	2345 Broadway APN: 008 -0666-007-00	3	Parcel B ■367 residential units ■8,500 S.F. retail	Catherine Payne 238-6168	DEIR published 08/26/04. LPAB hearing 09/20/04. Planning Commission approval 10/06/04. TTM approval 06/20/06. Parcel B seeking amendments to the project. Design Review Committee 04/23/08. Planning Commission approval 06/04/08.
68	Safeway (Broadway @ Pleasant Valley)	Benner Stange Associates Architects L. Owen Chrisman (530) 670-0234	5050-5100 Broadway APN: 014-1242-002-03, 014-1242-005-07	1	■Redevelopment of existing shopping center with new 260,000 SF shopping center	Darin Ranelletti 238-3663	Application filed. NOP published 06/26/09. Environmental Scoping Session before Planning Commission 07/15/09. DEIR being prepared.
COMMERCIAL, INDUSTRIAL, CIVIC PROJECTS							
Pre-Application Discussions							
69	~Spanish Speaking Citizens Foundation	Joe DeCredico (510)883-1521	1470 Fruitvale Ave APN: 033 -2121-023-00	5	■40,000 S.F. 5-story civic building	Leigh McCullen 238-4977	Pre-application filed.
Application Submitted - Under Review							
70	~Replacement of Embarcadero Bridge	City of Oakland (510)883-1521	80 Fallon Street, 1 5th Ave APN: 0000-0430-001-04 0000-0430-001-02	5	■Replacement of the Embarcadero Bridge over Lake Merritt Channel	Leigh McCullen 238-4977	Pre-application filed.
71	~Victory Court Ballpark Development	City of Oakland Redevelopment Agency Gregory Hunter (510)238-2992	Victory Court Site -22 acre area generally located between Oak Street and the Lake Merritt Channel and I-880 and Embarcadero APN: various	3	■Up to 39,000 seat MLB ballpark ■Up to 180,000 S.F. retail ■540,000 S.F. office ■700 residential units	Peterson Vollmann 238-6167	NOP published 11/10/10. Environmental Scoping Session before Planning Commission 12/1/10. DEIR preparation underway.
72	~Oakland Zoo (Master Plan Amendment)	East Bay Zoological Society Nik Haas-Dejehia (510) 623-9525 x138	9777 Golf Links Rd APN - multiple	7	■Revisions to the Oakland Zoo Master Plan previously approved in 1998	Darin Ranelletti 238-3663	Application filed. Informational Briefing Session before Planning Commission 04/21/10. Environmental review underway.

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73	~Safeway	Ken Lowney (510)836-5400	6310 College Ave APN: 048A-7070-001-01	3	■New 50,000 SF grocery story and ground floor retail	Peterson Vollmann 238-6167	Application filed. NOP published 10/30/09. Environmental Scoping Session before Planning Commission 11/18/09. DEIR preparation underway.
74	~Foothill Square Redevelopment Project	Jay-Phares Corp. John Jay (510)562-9500	10700 Mac Arthur Boulevard APN: 047 -5589-001-00 047 -5589-001-06 047 -5589-001-05 047 -5589-001-04	7	■Redevelopment of a commercial shopping center approx. 13.8 acres ■72,000 sf supermarket	Aubrey Rose 238-2071	Application filed. Environmental scoping underway.
75	~633 Hegenberger (formerly Coliseum Center)	City of Oakland Redevelopment Agency	633 Hegenberger APN: 042-4218-001-16	7	■Retail facility containing approx. 139,000 SF	Darin Ranelletti 238-3663	Application filed. Environmental scoping underway. Design Review Committee 08/13/08. Application revised 06/08/09. Project inactive.
Application Approved							
76	~Alta Bates Summit Medical Center- Summit Campus Master Plan	Alta Bates Summit Medical Center Shahrokh Sayadi (415)203-6345	23-acre campus generally between Telegraph and Webster, and between 30th Street and 34th Street APN - Multiple	3	ABSMC Master Plan <i>Phase 1</i> ■Demolition of the Merritt Classroom and other small buildings ■Construction of a new 230,000 sq. ft. (11-story) acute care hospital ■1,090-space (7-story) parking garage. <i>Phase 2</i> ■Longer-term campus-wide improvements, new medical office buildings, classrooms and closure of a portion of Summit Street for development of a new campus plaza.	Scott Gregory (contract planner) (510) 535-6690	Application filed. NOP published 01/23/09. DEIR published 12/21/09. FEIR published 5/7/10. Planning Commission approval 05/19/10. Appealed to City Council. Council denial of the appeal and approval of the project 07/06/10.

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77	East Oakland Sports Center	City of Oakland Community and Economic Development Agency Project Delivery Division Lyle Oehler (510) 238-3389	9175 Edes Avenue APN: 044-5053-001-06	7	<p>■Phased Master Plan for a sports center at Ira Jinkins Park.</p> <p><i>Phase I</i></p> <p>■26,000:indoor swimming pool/water slide (natatorium), a dance/exercise room, a multi-purpose room/learning center, and other accessory activities. If funded a fitness/weight room and two outdoor basketball courts</p> <p><i>Phase II</i></p> <p>■23,000 square foot facility and outdoor amenities</p>	Lynn Warner 238-6983	Application filed. PRAC 01/09/08. Design Review Committee 02/27/08. Environmental impacts for the project were analyzed under Measure DD Implementation Project. Planning Commission certified the FEIR 02/13/08. Planning Commission approval 04/02/08. Building Permit #B0804025. Project under construction.
78	~City Center T12 (2005)*	Shorenstein Realty Investors Tom Hart (415) 772-7000	11th/12th/MLK/Jefferson APN: 002-0027-007-00	3	<p>■Revision in program from 450 residential units to 600,000 SF office.</p>	Lynn Warner 238-6983	Revision from residential units to office square footage. Design Review Committee 09/26/07. Planning Commission approval and Addendum certification 12/05/07. Building permit #B0803952. Project stopped construction. Redevelopment Agency renegotiated City Center DDA extending the completion requirements.
79	~1100 Broadway	Steven Wolmark SKS Investments (415)421-8200	1100 Broadway APN:002-0051-006-02	2	<p>■Rehabilitation of the Key System Building</p> <p>■310,285 S.F. of office</p> <p>■9,810 S.F. of retail.</p>	Heather Klein 238-3659	LPAB on 11/5/07 and 12/10/07. Design Review Committee on 10/24/07. Planning Commission approval and Addendum certification 02/13/08. Extension granted 08/17/09.
80	~Lake Merritt Channel Wetland and Widening Project	City of Oakland	Lake Merritt Channel between Lake Merritt and I-880 APN: 0000-0450-001, 002, 0000-0455-001-01, 001-07, 008-05,012, 013, 015-02	2	<p>■Widening and tidal restoration improvements along Lake Merritt in association with the 12th Street Reconstruction Project, 10th Street Bridge Project, and Lake Merritt Channel Improvement Project at the 7th Street Flood Control Station.</p>	Lesley Estes, Watershed Improvement Program Supervisor, 238-7431	DEIR published 04/14/05; Planning Commission hearing DEIR 5/17/05. Planning Commission certification of the FEIR and project approval 07/05/06. This project also is included in the Measure DD EIR. The DEIR for Measure DD was published 07/20/07. The Planning Commission certification of the FEIR 02/13/08. Appeal denied by City Council 04/01/08. Project under construction.

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81	Kaiser Permanente	Kaiser Permanente Judy DeVries (510) 752-2004	Generally the area surrounding the intersection of Broadway and Macarthur Boulevard.	1 and 3	<ul style="list-style-type: none"> ■ Master Plan for new Hospital <i>Phase II</i> ■ 1,216 space parking structure ■ Hospital building (346 beds, approx. 1.06 MSF) ■ Central utility plant <i>Phase III</i> n Demolition of existing hospital tower and low-rise (except for recent Emergency Department addition and Fabiola Building) <ul style="list-style-type: none"> ■ Conversion of ground-floor parking on Site 7 (38 spaces) to accommodate an additional 6,000 SF. of retail ■ Conversion of Emergency Department addition to temporary medical services use ■ Construction of parking lot of approximately 189 spaces ■ Construction of a new Central Administration MSB (approx. 60,000 SF) 	Scott Gregory (contract planner) (510) 535-6690	Planning Commission certification of the FEIR and approval of the project 06/07/06. City Council approval of GPA, RPA and re-zoning 6/27/06. Planning Commission approval of the design of Phase I MOB 11/1/06. Design Review Committee for Phase II Hospital 12/12/07 and 5/28/08. Planning Commission approval of Design review for Phase 2 Hospital 11/19/08. Building Permits for hospital sent to OSHPD review. Demolition permit, Grading permit, and Building permit for garage issued. Project under construction.
82	City Center T5/T6 (2005)	Shorenstein Realty Investors Nick Loukianoff (415) 772-7062	11th/12th/Clay/Broadway APN: 002-0097-038-00 through 002-0097-040-00	3	<ul style="list-style-type: none"> ■ 600,000 S.F. office ■ 7,500 S.F. commercial 	Patrick Lane, Redevelopment Agency 238-7362	Planning Commission approval of PPUD 4/00.

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SUCCESSFUL COMPLETIONS							
Residential Projects							
1	Ironhorse Apartments at Central Station (formerly 14th Street Apartments -Wood Street)	Bridge Housing Ben Metcalf (415)989-1111	Portions of APN: 0006-0029-001 and 0000-0315-006.	3	■99 Affordable housing units	Eric Angstadt 238-6190	Project completed.
2	~Altenheim Senior Housing	Citizens Housing Corporation Kaori Tokunhea (415) 421-8605	1720 Macarthur Boulevard APN: 023-0494-001-07	5	<i>Phase II</i> ■ 83 apartments units (new construction)	Joann Pavlinec 238-6344	Project completed.
3	Housewives Market*	A. F. Evans Steve Kuklin (415) 591-2204	8th/9th/Clay and Jefferson 801-807 Clay Street APN: 001-0209-001, 002, 003, 004	3	<i>Phase II</i> ■72-86 condominium units ■14,000 S.F. flexible space	Don Smith, Bldg. Permits 238-4778	Project completed.
4	630 Thomas Berkley Square Housing *	SUDA/ Alan Dones (510) 715-3491	630 Thomas L. Berkley Way APN: N/A - TPM7541 Parcel 3	3	■88 residential condominium units ■3 commercial spaces	Heather Klein, Major Projects, 238-3659	Project completed.
5	1755 Broadway*	1755 Broadway LLC Andrew Brog (310)963-7878	1755 Broadway APN:008 -0640-005-00	3	■Conversion of floors 2-5 of office to 24 live/work condominiums.	Mike Rivera, 238-6417	Project completed.
6	Fox Courts	Deni Adaniya (510) 841.4410, ext.19	Uptown Parcel 6 555-19th Street, 550-18th Street APN 008-0642-017	3	80 residential units; 2500 sf. childcare; art space	Catherine Payne, Major Projects, 238-6168	Project completed.
7	311 2nd St*	Embarcadero Pacific Michael Reynolds (510) 444-4064	311 2nd Street APN:001 -0149-007-00	3	■105 residential condominium units	Heather Klein, Major Projects, 238-3659	Project completed.
8	100 Grand*	Essex Property Trust John Eudy (650) 849-1600	124 Grand Ave and 2264 Webster St. APN: 008-0655-007-00 & 008-0655-009-01	3	■241 residential units	Darin Ranelletti, Major Projects, 238-3663	Project completed.
9	Siena Hills	Hillside Homes Edward Patmont (925) 946-0583	Between Rilea Way and Greenridge Drive on Keller Ave. APN: 04A-3457-033-01	6	■10 single-family homes	Heather Klein, Major Projects, 238-3659	Project completed.
10	Pacific Cannery Lofts	PCL Associates Cal Inman (510)547-2122	1111-1119 Pine Street APN: 006-0029-002-00	3	■99 condo warehouse lofts ■45 live/work lofts ■15 townhouse lofts ■4 work/live lofts (part Wood Street Development)	Marge Stanzione, Major Projects 238-4932	Project completed.
11	Zephyr Gate -Wood Street	Pulte Homes (925) 249-3268	Wood Street APN: 006-0029-001-00	3	■130 residential condominium units	Marge Stanzione, Major Projects 238-4932	Project completed.

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12	3860 Martin Luther King Jr. Way	Neil Cotter (650) 259-9303	3860 & 3880 Martin Luther King Jr. Way APN: 012-0968-030-01 012-0968-031-00	1	■34 residential units	Darin Ranelletti, Major Projects, 238-3663 Kathy Kleinbaum, Redevelopment Division, 238-7185	Project completed.
13	~Jackson Courtyard Condominiums*	Gerald Green (415)377-5286	210 – 14th Street APN 008 –0627-020-00	3	■45 condominium units	Heather Klein, Major Projects, 238-3659	Project completed.
14	Uptown Project *	Forest City Residential, Inc. Susan Smartt (415) 836-5980	Area bounded by San Pablo, Telegraph, 18th and 20th Streets APN - Multiple	3	■Parcel I ■Parcel II ■Parcel III ■Park	Catherine Payne, Major Projects, 238-6168	Project completed.
15	Lion Creek Crossing (formerly Coliseum Gardens)	EBALDC Carlos Castellmos (510) 287-5335	66th Ave. at San Leandro Street APN-Multiple	6	■283 residential units ■7,500 S.F. of civic and commercial space ■park	Catherine Payne, Major Projects, 238-6168	All phases completed.
16	Monte Vista Villas (formerly Leona Quarry)	The DeSilva Group David Chapman (925) 828-7999	7100 Mountain Boulevard APN: 037A-3151-001-01	6	■209 residential units ■3,350 S.F. community center	Bill Quesada, Building Services, 238-6345	Project completed.
17	Packard Lofts* (formerly 2355 Broadway)	2355 Broadway LLC John Protopappas (510) 452-2944	2355 Broadway APN: 008-0666-006-00	6	■Adaptive re-use of historic building into 24 condominiums and ground floor retail	Heather Klein, Major Projects, 238-3659	Project completed.
18	46th Street Lofts (formerly Flecto Project)	Levin, Menzies, Kelly Paul Menzies (925) 937-4111	47th and Adeline; land area is in both Oakland and Emeryville. 119 Linden Street APN: 049-1172-002 013-1172-003 013-1172-004	1	■79 units and 3,000 S.F. commercial space ■Adaptive reuse of and addition to the former Flecto building.	Catherine Payne, Major Projects 238-6168	Project completed.
19	The Ellington* (formerly 3rd/Broadway Mixed Use)	The Enterprise Group Walter Cohen (415) 221-2534	200/210/228 Broadway APN: 001 –0141-002-01 001 –0141-011-00	3	■134 residential units ■11,000 S.F. retail	Heather Klein, Major Projects 238-3659 Don Smith, Bldg. Permits 238-4778	Project completed.
20	901 Jefferson*	Pyatok Architects Inc Gary Struthers (510)465-7010	901& 907 Jefferson Street APN: 002-0025-007-00 through 002-0025-009-00	3	■75 condominium units ■1,030 S.F. retail	Darin Ranelletti, Major Projects, 238-3663	Project completed.
21	Madison Lofts*	Affordable Housing Associates Mark Garrel (510) 649-8500	160 14th St. APN: 008-0628-005-01	3	■Approximately 76 condominium units ■2,666 S.F. of retail	Neil Gray 238-3878	Project completed.

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22	8 Orchids*	BayRock Residential Marilyn Ponte (510) 594-8811	620-636 Broadway APN: 001-0197-002-00	2	■3,600 S.F. retail ■157 condominium units	Heather Klein, Major Projects, 238-3659	Project completed.
23	Mandela Gateway Townhomes	Bridge Housing Kristy Wang (415) 989-1111	1431 8th Street APN: 004-0067-021-00	3	■14 condominiums	Heather Klein, Major Projects, 238-3659	Project completed.
24	66th & San Pablo	The Olson Company (925) 242-1050	6549 San Pablo Ave APN: 016-1506-001-02	1	■72 condominium units	Lynn Warner, Major Projects, 238-6983	Project completed.
25	288 Third Street* (formally 300 Harrison Street)	Signature Properties Chris Weekley (925) 463-1122	300 Harrison Street APN: 001-0153-016	3	■91 condominiums units	Joann Pavlinec, Major Projects, 238-6344	Project completed.
26	Altenheim Senior Housing	Citizens Housing Corporation Kaori Tokunhea (415) 421-8605	1720 Macarthur Boulevard APN: 023-0494-001-07	5	■ 93 apartment units ■ Rehabilitation of existing historic buildings	Joann Pavlinec, Major Projects, 238-6344	Phase I completed.
27	206 Second Street*	MV Jackson Robison Brown (415) 284-1200	206 Second Street APN: 001-0157-003-00	3	■2,380 S.F. of live/work ■1,310 S.F. of retail space ■75 condominium units	Heather Klein, Major Projects, 238-3659	Project completed.
28	1511 Jefferson *	Meritage Homes of California Randall Harris (925) 256-6042	1511 Jefferson Street APN:003-0071-006-00	3	■78 condominium units	Robert Merkamp 238-6283	Project completed.
29	Wheelink Project*	Jordan Real Estate Wayne Jordan (510) 663-3865	4th and Alice Street; JLS District 426 Alice Street APN 001 -0155-001-00	3	■94 residential units ■9,800 S.F. office	Scott Miller,238-2235 Don Smith, Bldg. Permits 238-4778	Project completed.
30	Ford Street Lofts	Signature Properties (905) 436-9350	3041, 3061, and 3065 Ford Street APN: 025-0666-002-00	5	■81 condominium residential units	Scott Miller, 238-2235	Project completed.
31	Lincoln Court Senior Housing	Domus Development 415-558-9500	2400 Macarthur Blvd APN: 029 -0993-020-01	4	■82 senior housing apartment units	Robert Merkamp 238-6283	Project completed.
32	Housewives Market*	A.F. Evans Steve Kuklin (415) 591-2204	8th/9th/Clay and Jefferson 801-807 Clay Street APN: 001-0209-001, 002, 003, 004	3	Phase I ■Between 102 -111 condominium units ■11,000 S.F. flexible space ■3,000 S.F. of retail ■Structured parking	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed
33	Aqua Via* (Harbor View or Second Street Lofts)	Urban Developments Marge Cafarelli (415) 512-8118	121-129 2nd Street APN: 001-0165-015-00	3	■100 condominium units ■5,190 S.F. of commercial / office	Heather Klein, Major Projects, 238-3659	Project completed.

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December 2010- January 2011

34	Cotton Mill Studios	Tom Dolan Architects (510) 839-7200	1091 Calcot Place APN: 019-0055-001-04	5	■74 unit live/work conversion	Joann Pavlinec, Major Projects, 238-6344	Project completed.
35	Glascok Residential Project “The Estuary”	Signature Properties Patrick Van Ness (925) 463-1122	2893 Glascok at Derby 4.1 Acres APN: 025-0674-001-00 025-0674-002-00 025-0674-003-00	5	■100 residential units	Scott Miller 238-2235	Project completed.
36	Green City Loft Project	Green City Development Martin Samuels (510) 635-7698	41st and Adeline; land area is in both Oakland and Emeryville. 1007 41st Street APN: 012 –1022-001-00	1	■62 lot units on former office/warehouse site	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed
37	City Limits Project (Formerly FABCO)	Pulte Homes Dennis O'Keefe (925)249-3218	1165 and 1249 67th Street west of San Pablo Ave. APN: 049-1507-004-00 016 –1507-008-03 016 –1507-009-02	1	■92 condominium residential units	Scott Miller 238-2235	Project completed.
38	Palm Villas Residential Project	Em Johnson Interest (510) 839-3057	9001-9321 MacArthur Blvd. APN: 047-5484-006-04, 007- 03, 010-02, 011, 012, 013, 022- 01, 022-02, 023	7	■78 single family homes	Don Smith, Bldg. Permits, 238-4778	Project completed.
39	Ettie Street/Mandela Parkway	David Baker Architects (415) 896-6700	2818 Mandela Parkway APN: 007-0587-002-05	3	■91 live/work units	Gary Patton, Major Projects Manager, 238-6281	Project completed
40	Arioso Project*	SNK Development (415) 896-1186	901 Franklin Street APN: 002-0096-004-00	2	■88 condominium units ■6,000 S.F. commercial structured parking	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed
41	Mandela Gateway Gardens (formerly Westwood Gardens)	Oakland Housing Authority and Bridge Housing Pete Nichol (415) 989-1111	1431 7th Street APN: 004-0067-021-00	3	■200 residential units (40 units in replacement of existing Westwood Gardens) 15,000 S.F. of retail space - combination rental and ownership; Some live/work units.	Heather Klein, Major Projects, 238-3659	Project completed.
42	Telegraph Gateway Project *	Tom Dolan Architects Scott Galka (510) 839-7200	Telegraph Ave. and 24th Street 2401 Telegraph Avenue APN: 008-0675-004-00	3	■50 new residential lots ■5,300 S.F. ground floor retail	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed.

* 10K PROJECT (project includes residential units located in Downtown)

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
December 2010- January 2011

43	Durant Square	Signature Properties (925) 463-1122	International Blvd. And Durant Ave. 10970 International Blvd. APN: 047-5519-043-00	7	<ul style="list-style-type: none"> ■43 new single family ■168 new townhouses ■40 new live/work (60 total) ■Food 4 Less ■Renovated building with continued commercial uses 	Heather Klein, Major Projects, 238-3659 Bill Quesada, Building Permits, 238-6345	Project completed.
44	Preservation Park III*	Signature Properties (905) 436-9350	11th – 12th and MLK on a vacant parcel 655 12th Street APN: 002-0021-011-01 002-0021-012-00	3	<ul style="list-style-type: none"> ■92 residential townhouses 	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits, 238-4778	Project completed.
45	San Pablo Affordable Senior Housing	Oakland Community Housing Inc. (510) 763-7676	3255 San Pablo Avenue between 32nd and 34th Streets APN: 005-0470-017-01	3	<ul style="list-style-type: none"> ■ 50+ residential units 	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits	Project completed.
46	Bridge Housing – Linden Court	Bridge Housing (415) 989-1111	1089 26th Street. Near McClymonds High School in West Oakland APN: 005-0435-001-00	3	<ul style="list-style-type: none"> ■Low-income housing (approx. 79 units) 	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits	Project completed.
47	Bridge Housing - Chestnut Court	Bridge Housing (415) 989-1111	2240 Chestnut Street, at West Grand APN: 005-0428-001-00	3	<ul style="list-style-type: none"> ■Hope IV project in conjunction with OHA ■58 affordable rental housing units ■6 affordable for sale housing units ■14 loft units, 4,000 S.F. retail ■4,000 S.F. supportive services 	Don Smith, Bldg. Permits 238-4778	Project completed.
48	The Essex - Lake Merritt*	Lakeshore Partners Tom Peterson (510)-444-7191	17th and Lakeshore 108 - 17th Street APN: 008-0633-002-01	2	<ul style="list-style-type: none"> ■270 residential units 	Gary Patton, Major Projects Manager, 238-6281 Jim Oakley, Bldg. Permits 238-3637	Project completed.
49	Safeway Building*	Reynolds & Brown Dana Perry (925) 674-8400	4th and Jackson Streets 201 4th Street APN: 001-0155-008-00	3	<ul style="list-style-type: none"> ■Reuse existing warehouse and add new top floor for approximately 46 live/work units ■4,500 S.F. ground floor commercial ■6,500 S.F. office 	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits, 238-4778	Project completed.
50	Allegro Project*	SNK Development (415) 896-1186	3rd and Jackson Streets 208 Jackson Street APN:001-0159-006-00	3	<ul style="list-style-type: none"> ■312 units ■13,500 S.F. commercial ■4 new buildings 	Gary Patton, Major Projects Manager, 238-6281	Project completed.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
December 2010- January 2011

Commercial, Industrial, and Civic Projects							
51	~Auto Chlor System	Tulloch Construction Brian Tulloch (510) 655-3400	1325 14th Street APN: 005-0375-002-01, 005-0373-010-03, 005-0373-005-01	3	■64,512 S.F. concrete tiltup light manufacturing building	Ulla-Britt Jonsson, 238-3322	Project completed.
52	~Kaiser Permanente	Kaiser Permanente Judy DeVries (510) 752-2004	Generally the area surrounding the intersection of Broadway and Macarthur Boulevard.	1 and 3	Phase I West Broadway Medical Services Building and Garage	Scott Gregory (contract planner) (510) 535-6690 Gary Patton, Major Projects Manager, 238-6281	Project completed.
53	~Jack London Square Redevelopment	Jack London Square Partners, Stuart Richard, (415)391-9800	Eight Development areas within Jack London Square bounded by Alice, 2nd, Harrison, and Embarcadero. APN - Multiple	3	■commercial, office, and parking	Catherine Payne, Major Projects, 238-6168	Site C, G and F completed.
54	Fox Theater	City of Oakland Redevelopment Agency	1807-1829 Telegraph Ave APN: 008 -0642-001-00	3	■Rehabilitation of the historic theater ■20,000 S.F. addition	Joann Pavlinec, Major Projects, 238-6344	Project completed.
55	Head Royce School	John Malick & Associates John Malick (510)595-8042	4315 Lincoln Ave APN: 029A-1367-004-04	4	■Development of the Masterplan	Heather Klein, Major Projects, 238-3659	Project completed.
56	Cathedral of Christ the Light	CMA Eileen Ash (415) 597-8414	2121 Harrison Street and Grand Avenue APN:008-0653-024	3	■ 255,000 S.F. Cathedral	Catherine Payne, Major Projects, 238-6168	Project completed.
57	Center 21	John Sutton Prentiss Properties (510)465-2101	2100 Franklin Street APN:008 -0651-003-01	3	■15,000 S.F. retail ■218,000 S.F. office	Catherine Payne, Major Projects, 238-6168	Project completed.
58	Cox Cadillac Mixed Use	Bond Company Robert Bond (312) 853-0070	Intersection of Harrison St., 27th and Bay Place 230 Bay Place APN 010 -0795-027-01	3	■56,000 S.F. commercial ■Renovation of historic Cadillac Showroom	Joann Pavlinec, Major Projects, 238-6344 Don Smith, Bldg. Permits, 238-4778	Project completed.
59	66 Franklin Street*	Komorous-Towey Klara Komorous (510)446-2244	66 Franklin Street APN:001-0060-322	3	■Renovation of existing building with approximately 95 S.F. of commercial	Joann Pavlinec, Major Projects, 238-6344	Project completed.
60	17th Street Parking Garage	California Commercial Investments Phil Tagami (510) 268-8500	16th and 17th Streets and San Pablo Avenue 1630 San Pablo APN: 008 -0620-015-00 008 -0620-014-00 008 -0620-009-01	3	■+330 -space parking garage	Heather Klein, Major Projects, 238-3659 Patrick Lane, Redevelopment, 238-7362	Project completed.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
December 2010- January 2011

61	Thomas Berkley Square	SUDA/ North County Center for Self Sufficiency Alan Dones (510) 715-3491	San Pablo Ave between MLK Jr. Way, Thomas L. Berkley Way, and 21st Street. 630 20th Street APN: 008-0645-015-01 008-0645-01801 and 02 0080645-019 through 025	3	■ 114,000 S.F. office for the Alameda County Social Services Division and the North County Self Sufficiency Center ■ 5,000 S.F. of retail	Heather Klein, Major Projects, 238-3659 Don Smith, Bldg. Permits 238-4778	Project completed.
62	Infiniti of Oakland	Hendricks Automotive Ron Tye (925) 463-9074	Oakport Road at Hassler Way APN: 034-2295-005-04	7	■ New automotive dealership	Heather Klein, Major Projects, 238-3659 Jay Musante, Redevelopment, 238-6658	Project completed.
63	Perkins Street Residential Care	A.F. Evans John Rimbach (510) 891-444-7191	468-484 Perkins St. APN: 010-0767-014-00	3	■ 56 room care facility for elderly residents	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
December 2010- January 2011

Mixed-Use Projects							
63	Seven Directions	Pyatok Architects Inc, Curtis Caton, (510)465-7010	2946 International Boulevard APN: 025-0716-012-00	3	■38 housing units ■20,115 S.F. clinic space	Joann Pavlinec, Major Projects, 238-6344	Project completed.
64	Broadway West Grand (formerly known as Negherbon Mixed Use Project)*	Signature Properties Doug Park (925) 463-1122	2345 Broadway APN: 008 -0666-007-00	3	<i>Parcel A</i> ■132 residential units ■21,300 S.F. retail	Catherine Payne, Major Projects, 238-6168	Project completed.
65	Jack London Square Redevelopment	Jack London Square Partners, Stuart Richard, (415)391-9800	Eight Development areas within Jack London Square bounded by Alice, 2nd, Harrison, and Embarcadero. APN - Multiple	3	■Site C	Catherine Payne, Major Projects, 238-6168	Project completed; partial temporary certificate of occupancy.
66	Dreyer's Site Residential Lofts* The Sierra	COD Builders Kava Massih (510)644-1920	311 Oak Street APN: 001-0163-012-00	3	■220 units ■30,000 S.F. commercial	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed.
67	Fruitvale Transit Village Phase I	FDC, Evelyn Johnson, (510) 535-6911	Fruitvale BART Station	5	■Masterplan for residential and commercial/civic use and new parking structure	Darin Ranelletti, Major Projects, 238-3663 Jim Oakley, Bldg. Permits 238-3637	Project completed.
68	Rainin Instruments	Carl Groch, (415) 592-3950	Edgewater Drive & Hassler Road 7500 Edgewater Drive	7	■180,000 S.F. office/manufacturing/R&D facility	Jay Musante, Redevelopment, 238- 6658	Project completed.
69	Lexus Dealership	Lance Gidel (408) 370-0280	Oakport St. at Hassler Way APN: 034-2295-005-04	7	■22,000 S.F. building for auto sales, service, repair of parts ■Outdoor auto sales lot for 275- 290 cars	Heather Klein, Major Projects, 238-3659	Project completed.
70	Zhone Technologies	Joe Ernst (510) 864-5985	66th Avenue and Oakport Street 7195 Oakport	7	■300,000 S.F. high-tech research and development campus	Don Smith, Bldg. Permits, 238-4778	Project completed.
71	Just Desserts	Just Desserts John Schmiedel (415) 864-6450	550 85th Avenue APN: 042 -4313-001-00	7	■64,525 S.F. bakery and warehouse	Don Smith, Bldg. Permits, 238-4778	Project completed.

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CITY OF OAKLAND - ACTIVE MAJOR DEVELOPMENT PROJECTS
December 2010- January 2011

72	City Center T9 (2000)	Shorenstein Realty Investors Nick Loukianoff (415) 772-7062	11 th /12 th /Clay/Jefferson APN: 002-0033-006-00 through 015-00	3	■450K office ■7,500 S.F. retail	Gary Patton, Major Projects Manager, 238-6281 Don Smith, Bldg. Permits 238-4778	Project completed.
73	Extended Stay American Hotel – OTR Site	Extended Stay America Dan Stearns (425) 603-1530	Yerba Buena and Mandela Parkway APN: 007-0617-014-01	3	■149 hotel rooms	Gary Patton, Major Projects Manager, 238-6281	Project completed.
74	Courtyard by Marriott Hotel	Marriott, Don Celli (916) 369-4050	350 Hegenberger Road	7	■154-room hotel	Don Smith, Bldg. Permits, 238-4778	Project completed.
75	Oakland Garden Hotel (Courtyard Marriott)	Michael Chan Oakland Garden Hotel (510) 251-6440	9 th and Broadway 900 Broadway APN: 002-0094-002-00	2	■150-room hotel	Don Smith, Bldg. Permits 238-4778	Project completed.
76	1111 Jackson Street – Phase I	Peter Wong (510) 628-9060	1111 Jackson Street APN 002-75-002-00	2	■Renovation of existing 111,000 S.F. State office building	Gary Patton, Major Projects Manager, 238-6281	Project completed.
77	Rotunda Building Reuse	Phil Tagami (510) 268-8500	1500 Broadway APN: 008-0619-004-01	3	■Rehabilitation of historic building for office & commercial uses ■187,000 S.F. office ■50,000 S.F. retail	Gary Patton, Major Projects Manager, 238-6281	Project completed.
78	IKEA Parking Structure	Ikea Property, Inc. Doug Pass (925) 249-0317	Shellmound at I-80 4300 Shellmound Street	3	■Additional 3-level parking structure for 800 cars in portion of existing surface parking lot	Gary Patton, Major Projects Manager, 238-6281	Project completed.
79	Best Buy Retail Store	Best Buy – Architects MBH – Sherry Fraiser (510) 865-8663	Yerba Buena and Mandela Parkway (Portion of OTR site) APN: 007-0617-014-01	3	■45,000 S.F. Best Buy retail store proposed	Gary Patton, Major Projects Manager, 238-6281	Project completed.
80	Expo Design Center	Mike Abate (714) 940-5810	Horton St., East Bay Bridge Shopping Center. Part of Oakland/Emeryville JPA	3	■KMART vacating present store ■Home Expo Center has assumed lease. ■Exterior / interior remodeling	Gary Patton, Major Projects Manager, 238-6281	Project completed.
81	Edgewater Distribution Center	AMB Property Corp.	7200 Edgewater Drive APN: 041 –3902-003-17	7	■406,700 S.F. warehouse/industrial use	Port of Oakland Commercial Real Estate 627-1210	Project completed.

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APPENDIX C

Air Quality, Greenhouse Gases, and Noise Supplemental Information

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Area Source

Baseline is currently: OFF

Unmitigated Area Source			Project-Baseline
	Project	Baseline	
Landscaping Emissions from URBEMIS (CO2 metric tons/year):	1.143	0.000	
Hearth Emissions from URBEMIS (CO2 metric tons/year):	8.385	0.000	
Wood Burning Fireplaces (N2O metric tons/year):	0.000	0.000	
Natural Gas Fireplaces (N2O metric tons/year):	0.014	0.000	
Wood Burning Stoves (CH4 metric tons/year):	0.000	0.000	
Natural Gas Fireplaces (CH4 metric tons/year):	0.014	0.000	
Total (CO2e metric tons/year):	14.122	0.000	
Total (CO2e metric tons/year):			14.122

Mitigated Area Source			Project-Baseline
	Project	Baseline	
Landscaping Emissions from URBEMIS (CO2 metric tons/year):	1.143	0.000	
Hearth Emissions from URBEMIS (CO2 metric tons/year):	8.385	0.000	
Wood Burning Fireplaces (N2O metric tons/year):	0.000	0.000	
Natural Gas Fireplaces (N2O metric tons/year):	0.014	0.000	
Wood Burning Stoves (CH4 metric tons/year):	0.000	0.000	
Natural Gas Fireplaces (CH4 metric tons/year):	0.014	0.000	
Total (CO2e metric tons/year):	14.122	0.000	
Total (CO2e metric tons/year):			14.122



The URBEMIS area source calculations include five separate categories: 1) natural gas fuel combustion, 2) hearth fuel combustion, 3) landscape maintenance equipment, 4) consumer products, and 5) architectural coatings. This Area Source tab imports CO2 emissions calculated by URBEMIS for hearths and landscape maintenance equipment only. BGM then calculates N2O and CH4 emissions for woodstoves and fireplaces and uses the resulting emissions to calculate CO2e. The consumer products and architectural coatings categories within URBEMIS do not generate GHG emissions and, consequently, are not used by BGM. Also, URBEMIS' estimate of CO2 from natural gas fuel combustion is not used by BGM. Instead, BGM calculates natural gas use and the resulting CO2 emissions in the Electricity and Natural Gas tab.

Postprocess Electrical GHG emission Adjustment

This worksheet adjusts the electrical GHG emissions calculated using the BGM model to account for PG&E-specific emission factors for projects in PG&E's service area. BGM uses a statewide factor

Project: Oakland Central Business District

Electrical Emissions

BGM Calculated electrical Emissions = 14436.44 MT of CO2 (not eCO2) (cell c8)

BGM Electrical CO2 Emission factor = 804.54 lbs CO2/MW-hr (cell c132)

PG&E CO2 Emission factors: Source: http://www.pgecorp.com/corp_responsibility/reports/2009/index.html/en10_climate.jsp

2008	641 lbs CO2/MW-hr
2007	636 lbs CO2/MW-hr
2006	456 lbs CO2/MW-hr
2005	489 lbs CO2/MW-hr
2004	566 lbs CO2/MW-hr

5 year rolling average = 557.6

PG&E-specific Adjusted Emission = 10005.42 MT of CO2 (not eCO2)

BGM CH4 Emissions = 0.12 MT of CO2 (not eCO2) (cell c9)

BGM N2O Emission = 0.066 MT of CO2 (not eCO2) (cell c10)

Adjusted eCO2 Emission = 10028.4 MT of eCO2

Water and Wastewater treatment and conveyance

BGM Calculated water & wastewater Emission = 514.23 MT of CO2 (not eCO2) (cell c8)

Per cells h19, i19 and j19, indoor water electrical demand is 72 % of electrical demand

Per Table ES-1 water supply and conveyance is 39 percent of energy in Northern Calif. For which a statewide factor is appropriate
The remaining energy is for local treatment and distribution for which the PG&E factor is appropriate

Indoor use Treatment and distribution Emission = 225.85 MT of CO2 (not eCO2)

Non-adjusted emissions = 288.38 MT of CO2 (not eCO2)

BGM Electrical CO2 Emission factor = 804.54 lbs CO2/MW-hr (cell c46)

PG&E 5-year Ave Emission Factor = 557.6 lbs CO2/MW-hr

PG&E-specific Adjusted Emission = 156.53 MT of CO2 (not eCO2)

Retotalled water & wastewater emissions = 444.91

BGM CH4 Emissions = 0.0043 MT of CO2 (not eCO2) (cell c9)

BGM N2O Emission = 0.0024 MT of CO2 (not eCO2) (cell c10)

Adjusted eCO2 Emission = 445.74 MT of eCO2

Electricity and Natural Gas

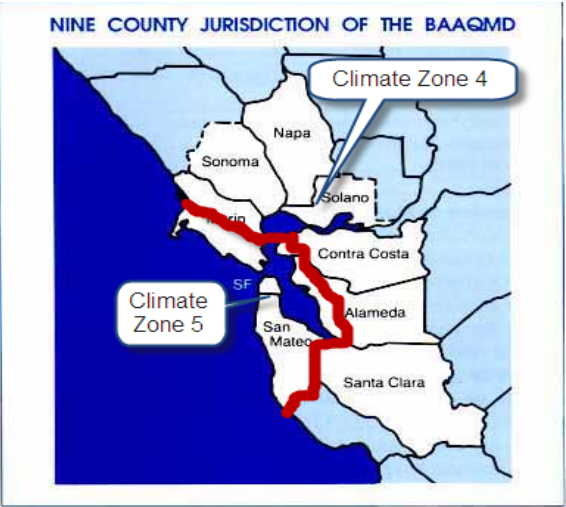
Baseline is currently: OFF

Unmitigated Electricity			
	Project	Baseline	Project-Baseline
CO2 metric tons/year CO2:	14,436.440	0.000	
CH4 metric tons/year CH4:	0.120	0.000	
N2O metric tons/year:	0.066	0.000	
CO2e metric tons/year:	14,459.546	0.000	
CO2e metric tons/year:			14,459.55

Unmitigated Natural Gas			
	Project	Baseline	Project-Baseline
CO2 metric tons/year:	4574.39	0.000	
CH4 metric tons/year:	0.43	0.000	
N2O metric tons/year:	0.01	0.000	
CO2e metric tons/year:	4586.11	0.000	
CO2e metric tons/year:			4,586.11

Mitigated Electricity			
	Project	Baseline	Project-Baseline
CO2 metric tons/year CO2:	14,436.440	0.000	
CH4 metric tons/year CH4:	0.120	0.000	
N2O metric tons/year:	0.066	0.000	
CO2e metric tons/year:	14,459.546	0.000	
CO2e metric tons/year:			14,459.55

Mitigated Natural Gas			
	Project	Baseline	Project-Baseline
CO2 metric tons/year:	4574.386	0.000	
CH4 metric tons/year:	0.431	0.000	
N2O metric tons/year:	0.009	0.000	
CO2e metric tons/year:	4586.111	0.000	
CO2e metric tons/year:			4,586.11



For detailed climate zone map see:
<http://capabilities.itron.com/CeusWeb/FCZMap.aspx>

Project Climate Zone Location:

☐ Zone 4

☒ Zone 5

*** Select Mitigation Measures on the Mitigation Tab ===>

[Mitigation](#)

Clear All User Overrides

PROJECT Residential:

	Number of units (from URBEMIS)	Estimated Electricity Use/Year (kwh/ residence)	Total Residential Electricity Use (mwh /year)	User Override of Residential Electricity Use (mwh/year)	CO2 (metric tons/year)	CH4 (metric tons/yr)	N2O (metric tons/yr)	Estimated Natural Gas Use (MMBtu/residence/year)	Estimated Natural Gas use (MM Btu/year)	User Override of Natural Gas Use (MM Btu/year)	CO2 (metric tons/yr)	CH4 (metric tons/yr)	N2O (metric tons/yr)
Single Family Residential	0.000	6,047.000	0.000		0.000	0.0000	0.0000	49.600	0.000		0.000	0.000	0.000
Multi Family Residential	2,619.000	3,685.000	9,651.015		3,522.971	0.0293	0.0162	22.500	58,927.500		3,121.019	0.294	0.006

PROJECT Nonresidential:

Land Use Type	Square Footage (1,000) from URBEMIS	Estimated Electricity Use/Year (Megawatt-hours)	User Override of Electricity Use/Year (Megawatt-hours)	CO2 (metric tons/yr)	CH4 (metric tons/yr)	N2O (metric tons/yr)	Estimated Natural Gas Use/Year (MM Btu)	User Override of Natural Gas Use (MM Btu/Year)	CO2 (metric tons/yr)	CH4 (metric tons/yr)	N2O (metric tons/yr)	Elect Use	Gas Use
Day-Care Center	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Elementary School	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Junior High School	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
High School	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Junior College	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
University/College	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Library	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Place of Worship	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
City Park	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Racquet Club	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Racquetball/Health	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Quality Restaurant	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
High Turnover/Sit-Down Restaurant	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Fast Food w/Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Fast Food w/o Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Hotel	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Motel	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Free-Standing Discount Store	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Free-Standing Discount Superstore	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Discount Club	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00

Regional Shopping Center	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Electronic Superstore	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Home Improvement Superstore	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Strip Mall	1,390.00	17,580.61		6,417.56	0.0534	0.0295	7,662.11		405.81	0.03824	0.00076	17,580.61	7,662.11
Hardware/Paint Store	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Supermarket	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Convenience Market	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Convenience Market w/gas pumps	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Gasoline Service Station	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Bank w/Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
General Office Building	540.00	8,234.31		3,005.82	0.0250	0.0138	12,572.83		665.90	0.06275	0.00126	8,234.31	12,572.83
Office Park	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Government Office Building	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Government Civic Center	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Pharmacy w/Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Pharmacy w/o Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Medical Office Building	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Hospital	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Warehouse	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
General Light Industry	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
General Heavy Industry	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Industrial Park	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00
Manufacturing	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000	0.00	0.00

BASELINE Residential:

39,547.96	86,368.32
39,547.96	86,368.32
39,547.96	86,368.32

	Number of units (from URBEMIS)	Estimated Electricity Use/Year (kwh/ residence)	Total Residential Electricity Use (mwh /year)	User Override of Residential Electricity Use (mwh/year)	CO2 (metric tons/year)	CH4 (metric tons/yr)	N2O (metric tons/yr)	Estimated Natural Gas Use (MMBtu/residence/year)	Estimated Natural Gas use (MM Btu/year)	User Override of Natural Gas Use (MM Btu/year)	CO2 (metric tons/yr)	CH4 (metric tons/yr)	N2O (metric tons/yr)
Single Family Residential	0.000	6,047.000	0.000		0.000	0.0000	0.0000	49.600	0.000		0.000	0.000	0.000
Multi Family Residential	0.000	3,685.000	0.000		0.000	0.0000	0.0000	22.500	0.000		0.000	0.000	0.000

BASELINE Nonresidential:

Land Use Type	Square Footage (1,000) from URBEMIS	Estimated Electricity Use/Year (Megawatt-hours)	User Override of Electricity Use/Year (Megawatt-hours)	CO2 (metric tons/yr)	CH4 (metric tons/yr)	N2O (metric tons/yr)	Estimated Natural Gas Use/Year (MM Btu)	User Override of Natural Gas Use (MM Btu/Year)	CO2 (metric tons/yr)	CH4 (metric tons/yr)	N2O (metric tons/yr)
Day-Care Center	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Elementary School	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Junior High School	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
High School	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Junior College	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
University/College	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Library	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Place of Worship	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
City Park	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Racquet Club	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Racquetball/Health	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Quality Restaurant	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
High Turnover/Sit-Down Restaurant	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Fast Food w/Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Fast Food w/o Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Hotel	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Motel	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Free-Standing Discount Store	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Free-Standing Discount Superstore	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Discount Club	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Regional Shopping Center	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000

Electronic Superstore	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Home Improvement Superstore	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Strip Mall	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Hardware/Paint Store	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Supermarket	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Convenience Market	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Convenience Market w/gas pumps	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Gasoline Service Station	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Bank w/Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
General Office Building	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Office Park	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Government Office Building	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Government Civic Center	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Pharmacy w/Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Pharmacy w/o Drive Through	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Medical Office Building	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Hospital	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Warehouse	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
General Light Industry	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
General Heavy Industry	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Industrial Park	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000
Manufacturing	0.00	0.00		0.00	0.0000	0.0000	0.00		0.00	0.00000	0.00000

Greenhouse Gas Emission Factors				
	CO2	CH4	N2O	
Electricity	804.54	0.0067	0.0037	
Units	lbs CO2/mwh	lbs CH4/mwh	lbs N2O/MWH	Source: Climate Action Registry General Reporting Protocol, Version 3.1, January, 2009.
Natural Gas	53.06	0.005	0.0001	
Units	CO2 (kg CO2/MMBtu)	CH4 (kg/MMBtu)	N2O(kg/MMBtu)	Source: Climate Action Registry General Reporting Protocol, Version 3.1, January, 2009.

Summary	Climate Zone 4 Summary		Climate Zone 5 Summary	
	Electric (kwh/sf)	Natural Gas (MM Btu/sf)	Electric (kwh/sf)	Natural Gas (MM Btu/sf)
All Commercial	13.64	0.02949	13.19	0.03169
Small Office (<30,000 sf)	17.37	0.00975	14.49	0.02999
Large Office (>= 30,000 sf)	23.51	0.02639	15.25	0.02328
Restaurant	35.97	0.21255	31.41	0.17108
Retail	12.82	0.00301	12.65	0.00551
Food Store	44.34	0.02577	40.26	0.04135
Refrigerated Warehouse	10.12	0.00388	24.86	0.01869
Unrefrigerated Warehouse	4.26	0.00440	4.56	0.00169
School	6.65	0.02271	5.51	0.01958
College	9.75	0.02754	12.70	0.04185
Health	23.03	0.11871	18.40	0.11073
Lodging	9.33	0.04695	10.03	0.03915
Miscellaneous	9.81	0.02965	8.98	0.02724
All Offices	21.35	0.02052	15.14	0.02426
All Warehouses	5.82	0.00426	7.71	0.00433

Water and Wastewater

Baseline is currently: OFF

Unmitigated Water and Wastewater			
	Project	Baseline	Project-Baseline
CO2 metric tons/year:	514.2361	0.0000	
CH4 metric tons/year:	0.0043	0.0000	
N2O metric tons/year:	0.0024	0.0000	
CO2e metric tons/year:	515.0592	0.0000	
CO2e metric tons/year:			515.06

Clear All User Overrides

Mitigated Water and Wastewater			
	Project	Baseline	Project-Baseline
CO2 metric tons/year:	514.2361	0.0000	
CH4 metric tons/year:	0.0043	0.0000	
N2O metric tons/year:	0.0024	0.0000	
CO2e metric tons/year:	515.0592	0.0000	
CO2e metric tons/year:			515.06

*** Select Mitigation Measures on the Mitigation Tab ==> [Mitigation](#)

	User Override of Model Estimates (af/yr)	Model Estimate (af/yr)	Total Gallons/year	Indoor Gallons/Year	Outdoor Gallons/year	Mitigated Indoor Gallons/Year	Mitigated Outdoor Gallons/year	Total Mitigated kwh/year
Baseline Water Demand		0.00	0	0.00	0.00	0.00	0.00	
Project Water Demand		919.44	299,646,426	188,363,942.71	111,282,482.88	188,363,942.71	111,282,482.88	
Net Increase in Water Demand		919.44	299,646,426	188,363,942.71	111,282,482.88	188,363,942.71	111,282,482.88	
						1019237.29	389488.69	1,408,725.98

Houshold Size	
Single Family	Multi-family
2.94	2.65

Land Use Type	Square feet per employee	
1 Warehouse		1,700.00
2 Public Assembly		1,300.00
3 Lodging		1,300.00
4 Food Sales		1,000.00
5 Retail and Service		900.00
6 Education		766.00
7 Public Order and Safety		750.00
8 Food Service		600.00
9 Other		550.00
10 Health Care		500.00
11 Office		400.00

Energy Information Administration Special Topics 1995 Building Activities Other, Square feet per employee.
http://www.eia.doe.gov/emeu/consumptionbriefs/cbecs/pbaweb site/office/office_howmanyempl.htm

PROJECT	
% indoor water use	0.629
% outdoor water use	0.371
Total	1.00

BASELINE	
% indoor water use	0.000
% outdoor water use	0.000
Total	0.00

Project Water Demand - Indoor	1019237.29	kwh/year
Project Water Demand - Outdoor	389488.69	kwh/year
Total	1408725.98	kwh/year

Baseline Demand - Indoor	0.00	kwh/year
Baseline Demand - Outdoor	0.00	kwh/year
Total	0.00	kwh/year

Greenhouse Gas Emission Factors	CO2	CH4	N2O
Electricity	804.54	0.0067	0.0037
Units	#/mwh	#/mwh	#/mwh

from California Climate Action Registry, 2009

Table ES-1. Recommended revised water-energy proxies				
	Indoor Uses		Outdoor Uses	
	Northern California kWh/MG	Southern California kWh/MG	Northern California kWh/MG	Southern California kWh/MG
Water Supply and Conveyance	2,117	9,727	2,117	9,727
Water Treatment	111	111	111	111
Water Distribution	1,272	1,272	1,272	1,272
Wastewater Treatment	1,911	1,911	0	0
Regional Total	5,411	13,022	3,500	11,111

from Navigant, 2006

Gallons Per Acre Foot:	325,900.00
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2025	103.03	68.38	85.17	6	University/College	0.00	0.00
2026	102.83	68.10	85.14	6	Library	0.00	0.00
2027	102.62	67.83	85.10	9	Place of Worship	0.00	0.00
2028	102.41	67.55	85.07	2	City Park	0.00	0.00
2029	102.21	67.28	85.03	5	Racquet Club	0.00	0.00
2030	102.00	67.00	85.00	5	Racquetball/Health	0.00	0.00
Source: San Francisco PUC Wholesale Customer Water Demand Projections Technical Report, Prepared by URS Corporation and Maddaeus Water Management, November 2004. Tables 3-2 and 5-2				8	Quality Restaurant	0.00	0.00
				8	High Turnover/Sit-Down Restaurant	0.00	0.00
				8	Fast Food w/Drive Through	0.00	0.00
				8	Fast Food w/o Drive Through	0.00	0.00
				3	Hotel	0.00	0.00
				3	Motel	0.00	0.00
				5	Free-Standing Discount Store	0.00	0.00
				5	Free-Standing Discount Superstore	0.00	0.00
				5	Discount Club	0.00	0.00
				5	Regional Shopping Center	0.00	0.00
				5	Electronic Superstore	0.00	0.00
				5	Home Improvement Superstore	0.00	0.00
				5	Strip Mall	0.00	0.00
				5	Hardware/Paint Store	0.00	0.00
				4	Supermarket	0.00	0.00
				4	Convenience Market	0.00	0.00
				4	Convenience Market w/gas pumps	0.00	0.00
				9	Gasoline Service Station	0.00	0.00
				5	Bank w/Drive Through	0.00	0.00
				11	General Office Building	0.00	0.00
				11	Office Park	0.00	0.00
				11	Government Office Building	0.00	0.00
				11	Government Civic Center	0.00	0.00
				5	Pharmacy w/Drive Through	0.00	0.00
				5	Pharmacy w/o Drive Through	0.00	0.00
				10	Medical Office Building	0.00	0.00
				10	Hospital	0.00	0.00
				1	Warehouse	0.00	0.00
				1	General Light Industry	0.00	0.00
				1	General Heavy Industry	0.00	0.00
				1	Industrial Park	0.00	0.00
				1	Manufacturing	0.00	0.00
							0.00

[illegible]

Solid Waste

Baseline is currently: OFF

Unmitigated Solid Waste		
	Project	Baseline
Truck Haul CO2 (metric tons/year):	63.16	0.00
Truck Haul CH4 (metric tons/year):	0.0014	0.0000
Truck Haul CO2e (metric tons/year):	63.19	0.00
Landfill Offgasing (CO2e metric tons/year):	8,576.33	0.00
Total Solid Waste (CO2e metric tons/year):	8,639.52	0.00
Total Solid Waste (CO2e metric tons/year):		8,639.52

Mitigated Solid Waste		
Project	Baseline	Project - Baseline
Truck Haul CO2 (metric tons/year):	63.16	
Truck Haul CH4 (metric tons/year):	0.0014	
Truck Haul CO2e (metric tons/year):	63.19	
Landfill Offgasing (CO2e metric tons/year):	8,576.33	
Total Solid Waste (CO2e metric tons/year):	8,639.52	
Total Solid Waste (CO2e metric tons/year):		8,639.52

*** Select Mitigation Measures on the Mitigation Tab ===>

Mitigation

Project Landfill disposal option:

- Select 1 of 3 options

☐ Landfilling only

☒ Landfilling with Flaring to Burn Methane

- Landfilling with Energy Recovery

Clear All User Overrides

Baseline Landfill disposal option:

Select 1 of 3 options

☐ Landfilling only

☒ Landfilling with Flaring to Burn Methane

- Landfilling with Energy Recovery

Project	Defaults	User Override
Average Round Trip Truck Haul Distance (miles):	40.00	
Solid Waste Truck Capacity (tons):	15.00	
Round Trips/Year:	893.37	
Miles per Year:	35,734.71	

Baseline	Defaults	User Override
Avg Round Trip Truck Haul Distance (miles):	40.00	
Solid Waste Truck Capacity (tons):	15.00	
Round Trips/Year:	0.00	
Miles per Year:	0.00	

		Estimated Solid Waste Generation Rate (tons/residence/yr)	Estimated Solid Waste Generation/Year (tons)	User Override of Solid Waste Generated/Year (tons)		
PROJECT Residential Land Use (From URBEMIS)	Units				CO2e (metric tons/year)	Solid Waste Generated/Year (tons)
Single Family Residential	0.00	2.23	0.00		0.00	0.00
Multi-Family Residential	2,619.00	1.17	3,064.23		1,961.11	3,064.23
PROJECT Nonresidential Land Use (From URBEMIS)	Square Footage (1,000) from URBEMIS	Estimated Solid Waste Generation Rate (tons/sf/yr)	Estimated Solid Waste Generation/Year (tons)	User Override of Solid Waste Generated/Year (tons)	CO2 (metric tons/yr)	
Day-Care Center	0.00	0.0013	0.00		0.00	0.00
Elementary School	0.00	0.0013	0.00		0.00	0.00
Junior High School	0.00	0.0013	0.00		0.00	0.00
High School	0.00	0.0013	0.00		0.00	0.00
Junior College	0.00	0.0013	0.00		0.00	0.00
University/College	0.00	0.0013	0.00		0.00	0.00
Library	0.00	0.0013	0.00		0.00	0.00
Place of Worship	0.00	0.0013	0.00		0.00	0.00
City Park	0.00	0.0000	0.00		0.00	0.00
Racquet Club	0.00	0.0057	0.00		0.00	0.00
Racquetball/Health	0.00	0.0057	0.00		0.00	0.00
Quality Restaurant	0.00	0.0009	0.00		0.00	0.00
High Turnover/Sit-Down Restaurant	0.00	0.0009	0.00		0.00	0.00
Fast Food w/Drive Through	0.00	0.0009	0.00		0.00	0.00
Fast Food w/o Drive Through	0.00	0.0009	0.00		0.00	0.00
Hotel	0.00	0.0108	0.00		0.00	0.00
Motel	0.00	0.0108	0.00		0.00	0.00
Free-Standing Discount Store	0.00	0.0046	0.00		0.00	0.00
Free-Standing Discount Superstore	0.00	0.0046	0.00		0.00	0.00
Discount Club	0.00	0.0046	0.00		0.00	0.00
Regional Shopping Center	0.00	0.0046	0.00		0.00	0.00
Electronic Superstore	0.00	0.0046	0.00		0.00	0.00
Home Improvement Superstore	0.00	0.0046	0.00		0.00	0.00
Strip Mall	1,390.00	0.0024	3,336.00		2,135.04	3,336.00
Hardware/Paint Store	0.00	0.0024	0.00		0.00	0.00
Supermarket	0.00	0.0057	0.00		0.00	0.00
Convenience Market	0.00	0.0024	0.00		0.00	0.00
Convenience Market w/gas pumps	0.00	0.0024	0.00		0.00	0.00
Gasoline Service Station	0.00	0.0024	0.00		0.00	0.00
Bank w/Drive Through	0.00	0.0108	0.00		0.00	0.00
General Office Building	540.00	0.0108	5,832.00		3,732.48	5,832.00
Office Park	0.00	0.0108	0.00		0.00	0.00

[illegible]

WARM Emission Factors			
	Landfilling, No Recovery	Landfilling w/Flaring	Landfilling w/Energy Recovery
Mixed Solid Waste	3.10	0.64	0.30
Emissions (from EMFAC2007, 35 mph for Heavy-Heavy Duty Trucks)			
Year	CO2 (grams/mile)	CH4 (grams/mile)	
2005	1,723.50	0.06	
2006	1,733.00	0.06	
2007	1,740.80	0.06	
2008	1,748.40	0.05	
2009	1,755.80	0.05	
2010	1,763.00	0.05	
2011	1,769.30	0.04	
2012	1,775.00	0.04	
2013	1,780.40	0.04	
2014	1,785.10	0.03	
2015	1,789.20	0.03	
2016	1,792.90	0.03	
2017	1,796.20	0.03	
2018	1,799.00	0.02	
2019	1,801.60	0.02	
2020	1,803.60	0.02	
2025	1,809.70	0.02	
2030	1,812.10	0.01	
2035	1,813.40	0.01	
2040	1,813.80	0.01	

Low Carbon Fuels Standards		
Year	% Reduction Gasoline and Diesel Fuel	% Reduction Tank to Wheels
2010	0.00	0.00
2011	0.25	0.18
2012	0.50	0.36
2013	1.00	0.72
2014	1.50	1.08
2015	2.50	1.80
2016	3.50	2.52
2017	5.00	3.60
2018	6.50	4.68
2019	8.00	5.76
2020	10.00	7.20
2021	10.00	7.20
2022	10.00	7.20
2023	10.00	7.20
2024	10.00	7.20
2025	10.00	7.20
2026	10.00	7.20
2027	10.00	7.20
2028	10.00	7.20
2029	10.00	7.20
2030	10.00	7.20
2031	10.00	7.20
2032	10.00	7.20
2033	10.00	7.20
2034	10.00	7.20
2035	10.00	7.20
2036	10.00	7.20
2037	10.00	7.20
2038	10.00	7.20
2039	10.00	7.20
2040	10.00	7.20

Source:
Final Regulation Order
Subchapter 10. Climate Change
Article 4. Regulations to Achieve Greenhouse Gas Reductions
Subarticle 7. Low Carbon Fuel Standard
Section 95482. Average Carbon Intensity Requirements for Gasoline and Diesel

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Construction Emissions		EMISSIONS in tons			1051
		CO2	CH4	N2O	
		47386.48 (from URBEMIS)			
From CCAR GPR 3.1 (2009)	Table C-6				
Diesel emission of CO2		10.15 kg CO2/gal 0.00058 kg CH4/gal 0.00026 kg N2O/gal			
So for Mobile sources...		CH4 emission = N2O emissions =	5.71E-05 percent of CO2 Emissions 2.56E-05 percent of CO2 Emissions		
Total Construction emissions in tons =					
		CO2 47386.48	CH4 2.71	N2O 1.21	Total GHG 47390.40
Total construction emissions as eCO2 in tons =					
		47386.48	56.86	376.29	47819.63
Total construction Emissions as eCO2 on Metric tons =		42988.07	51.59	341.36	43381.02
40-Year Amortized Construction emissions =					
					1084.525

Title : Oakland CBD emission rate
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 12/6/2010 10:44:50
 Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
 Season : Annual
 Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 1:00 Running Exhaust Emissions (grams/mile)

Pollutant Name: Methane Temperature 70F Relative Humidity: 50%

Speed
 MPH LDA LDT MDT HDT UBUS MCY ALL
 35 0.014 0.021 0.023 0.023 0.028 0.182 0.019

Pollutant Name: Carbon Monoxide Temperature 70F Relative Humidity: 50%

Speed
 MPH LDA LDT MDT HDT UBUS MCY ALL
 35 1.446 2.343 2.045 2.778 2.867 16.419 1.96

Pollutant Name: Oxides of Nitrogen Temperature 70F Relative Humidity: 50%

Speed
 MPH LDA LDT MDT HDT UBUS MCY ALL
 35 0.116 0.236 0.448 6.302 14.513 1.058 0.597

Pollutant Name: Carbon Dioxide Temperature 70F Relative Humidity: 50%

Speed
 MPH LDA LDT MDT HDT UBUS MCY ALL
 35 312.197 391.923 529.657 1583.55 2476.758 134.264 434.29

Pollutant Name: Sulfur Dioxide Temperature 70F Relative Humidity: 50%

Speed
 MPH LDA LDT MDT HDT UBUS MCY ALL
 35 0.003 0.004 0.005 0.015 0.024 0.002 0.004

Pollutant	Name:	PM10	Temperatu	70F	Relative	Humidity:	50%
Speed							
MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
35	0.009	0.018	0.02	0.209	0.211	0.018	0.024

Pollutant	Name:	PM10	-	Tire	Wear	Temperatu	70F	Relative	Humidity:	50%
Speed										
MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL			
35	0.008	0.008	0.009	0.026	0.008	0.004	0.009			

Pollutant	Name:	PM10	-	Brake	Wear	Temperatu	70F	Relative	Humidity:	50%
Speed										
MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL			
35	0.013	0.013	0.013	0.022	0.013	0.006	0.013			

Pollutant	Name:	Gasoline	-	mi/gal	Temperatu	70F	Relative	Humidity:	50%
Speed									
MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL		
35	28.181	22.375	16.596	17.345	17.002	53.269	25.402		

Pollutant	Name:	Diesel	-	mi/gal	Temperatu	70F	Relative	Humidity:	50%
Speed									
MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL		
35	28.247	29.005	19.806	5.933	3.812	0	7.917		

Title : Oakland CBD emission rate
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 12/6/2010 10:44:50
 Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
 Season : Annual
 Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 2:00 Starting Emissions (grams/trip)

Pollutant Name: Methane Temperature 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.002	0.003	0.005	0.011	0.003	0.059	0.004
10	0.003	0.005	0.009	0.018	0.006	0.065	0.006
20	0.006	0.009	0.017	0.031	0.011	0.078	0.01
30	0.009	0.012	0.025	0.042	0.016	0.092	0.014
40	0.011	0.015	0.031	0.052	0.019	0.106	0.018
50	0.013	0.018	0.037	0.061	0.023	0.12	0.021
60	0.015	0.02	0.042	0.068	0.025	0.129	0.024
120	0.02	0.027	0.057	0.075	0.028	0.139	0.031
180	0.019	0.027	0.058	0.08	0.03	0.144	0.031
240	0.021	0.029	0.061	0.084	0.031	0.154	0.033
300	0.022	0.03	0.065	0.089	0.033	0.164	0.035
360	0.023	0.032	0.068	0.093	0.035	0.173	0.037
420	0.024	0.033	0.071	0.097	0.036	0.183	0.038
480	0.025	0.035	0.074	0.101	0.038	0.192	0.04
540	0.026	0.036	0.077	0.105	0.039	0.201	0.042
600	0.027	0.038	0.081	0.109	0.04	0.21	0.043
660	0.028	0.039	0.084	0.113	0.042	0.219	0.045
720	0.029	0.041	0.087	0.116	0.043	0.228	0.047

Pollutant Name: Carbon Monoxide Temperature 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.34	0.523	0.96	2.441	0.685	3.81	0.637
10	0.63	0.967	1.792	4.204	1.276	4.123	1.134
20	1.181	1.81	3.371	7.513	2.383	4.748	2.077
30	1.695	2.595	4.837	10.531	3.391	5.372	2.951
40	2.172	3.321	6.19	13.261	4.3	5.994	3.755
50	2.61	3.989	7.429	15.7	5.11	6.615	4.49
60	3.012	4.598	8.555	17.85	5.821	7.235	5.156
120	4.395	6.584	11.633	20.825	6.715	10.498	7.029
180	4.124	6.237	11.446	21.633	6.935	10.907	6.826
240	4.393	6.634	12.14	22.439	7.158	12.216	7.225
300	4.638	6.997	12.776	23.242	7.385	13.403	7.595
360	4.859	7.324	13.355	24.043	7.616	14.469	7.934
420	5.055	7.617	13.876	24.842	7.851	15.413	8.242

480	5.227	7.874	14.339	25.637	8.089	16.236	8.52
540	5.374	8.096	14.745	26.43	8.332	16.936	8.767
600	5.496	8.284	15.093	27.221	8.578	17.516	8.983
660	5.594	8.436	15.383	28.009	8.828	17.973	9.169
720	5.667	8.554	15.616	28.794	9.082	18.309	9.325

Pollutant Name: Oxides of Nitrogen Temperatu 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.132	0.248	0.73	0.451	0.231	0.177	0.255
10	0.149	0.278	0.834	0.677	0.347	0.211	0.3
20	0.18	0.331	1.019	1.073	0.551	0.272	0.381
30	0.206	0.375	1.172	1.396	0.718	0.322	0.447
40	0.226	0.411	1.293	1.646	0.847	0.362	0.499
50	0.242	0.437	1.384	1.822	0.938	0.393	0.537
60	0.252	0.455	1.442	1.925	0.991	0.413	0.562
120	0.266	0.482	1.519	1.939	0.998	0.415	0.586
180	0.267	0.483	1.519	1.932	0.994	0.41	0.587
240	0.265	0.48	1.508	1.92	0.989	0.402	0.583
300	0.262	0.475	1.492	1.905	0.981	0.392	0.577
360	0.258	0.467	1.471	1.887	0.972	0.38	0.569
420	0.253	0.458	1.443	1.864	0.96	0.365	0.559
480	0.247	0.447	1.41	1.837	0.947	0.349	0.547
540	0.24	0.434	1.372	1.807	0.931	0.33	0.533
600	0.232	0.419	1.328	1.773	0.914	0.309	0.517
660	0.223	0.402	1.278	1.735	0.895	0.287	0.499
720	0.213	0.383	1.223	1.693	0.874	0.262	0.479

Pollutant Name: Carbon Dioxide Temperatu 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.448	14.101	18.846	4.068	0.884	18.135	12.582
10	13.308	16.514	22.637	6.94	1.628	20.502	14.892
20	17.459	21.859	30.879	12.631	3.104	25.134	19.956
30	22.183	27.896	39.999	18.253	4.563	29.631	25.611
40	27.482	34.626	49.995	23.804	6.004	33.992	31.857
50	33.354	42.048	60.869	29.285	7.428	38.217	38.695
60	39.8	50.163	72.621	34.696	8.835	42.307	46.124
120	88.545	110.575	156.078	58.185	14.932	60.909	100.109
180	100.935	126.151	178.622	68.16	17.574	64.192	114.31
240	113.196	141.538	200.776	77.546	20.06	67.282	128.303
300	125.328	156.736	222.541	86.344	22.39	70.181	142.088
360	137.33	171.746	243.918	94.553	24.565	72.889	155.665
420	149.203	186.567	264.905	102.173	26.583	75.404	169.035
480	160.948	201.198	285.503	109.205	28.446	77.728	182.196
540	172.563	215.641	305.712	115.648	30.152	79.86	195.149
600	184.048	229.895	325.532	121.503	31.703	81.8	207.895
660	195.405	243.96	344.962	126.769	33.098	83.549	220.433
720	206.633	257.836	364.004	131.446	34.336	85.106	232.762

Pollutant Name: Sulfur Dioxide Temperatu 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
40	0	0	0.001	0	0	0	0
50	0	0	0.001	0.001	0	0.001	0
60	0	0.001	0.001	0.001	0	0.001	0.001
120	0.001	0.001	0.002	0.001	0	0.001	0.001
180	0.001	0.001	0.002	0.001	0	0.001	0.001
240	0.001	0.001	0.002	0.001	0	0.001	0.001
300	0.001	0.002	0.002	0.001	0	0.001	0.001
360	0.001	0.002	0.003	0.001	0	0.001	0.002
420	0.002	0.002	0.003	0.001	0	0.001	0.002
480	0.002	0.002	0.003	0.001	0	0.001	0.002
540	0.002	0.002	0.003	0.002	0	0.001	0.002
600	0.002	0.002	0.003	0.002	0	0.001	0.002
660	0.002	0.002	0.004	0.002	0	0.001	0.002
720	0.002	0.003	0.004	0.002	0	0.001	0.002

Pollutant Name: PM10 Temperatu 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0	0	0.01	0.001
10	0.001	0.002	0.002	0.001	0	0.009	0.002
20	0.002	0.004	0.004	0.001	0	0.007	0.003
30	0.003	0.006	0.006	0.002	0.001	0.006	0.004
40	0.004	0.008	0.008	0.003	0.001	0.004	0.006
50	0.005	0.01	0.009	0.003	0.001	0.004	0.007
60	0.006	0.012	0.011	0.003	0.001	0.003	0.008
120	0.009	0.018	0.016	0.005	0.002	0.007	0.012
180	0.009	0.02	0.018	0.005	0.002	0.011	0.013
240	0.01	0.021	0.019	0.005	0.002	0.014	0.014
300	0.011	0.023	0.02	0.005	0.002	0.017	0.015
360	0.011	0.024	0.021	0.005	0.002	0.02	0.016
420	0.012	0.025	0.022	0.006	0.002	0.022	0.016
480	0.012	0.026	0.023	0.006	0.002	0.023	0.017
540	0.013	0.026	0.023	0.006	0.002	0.025	0.017
600	0.013	0.027	0.024	0.006	0.002	0.026	0.018
660	0.013	0.027	0.024	0.006	0.002	0.026	0.018
720	0.013	0.028	0.025	0.007	0.002	0.026	0.018

Hot soak results are scaled to reflect zero emissions for trip lengths of less than 5 minutes (about 25% of in-use trips).

Title	:	Oakland CBD emission rate
Version:	:	Emfac2007 V2.3 Nov 1 2006
Run Date :	:	12/6/2010 10:44:50
Scen Year:	:	All model years in the range 1971 to 2015 selected
Season :	:	Annual
Area :	:	Alameda

County	Average	Alameda	County	Average
Alameda	70%	68%	Alameda	70%
Contra Costa	69%	68%	Contra Costa	69%
Fresno	68%	68%	Fresno	68%
Kern	67%	68%	Kern	67%
Sacramento	66%	68%	Sacramento	66%
San Bernardino	65%	68%	San Bernardino	65%
San Diego	64%	68%	San Diego	64%
San Francisco	63%	68%	San Francisco	63%
San Jose	62%	68%	San Jose	62%
Santa Clara	61%	68%	Santa Clara	61%
Stanford	60%	68%	Stanford	60%
Tulare	59%	68%	Tulare	59%
Yuba	58%	68%	Yuba	58%

Table	4:00 Hot	Soak	Emissions (grams/trip)
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Pollutant Name: Methane Temperature: 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
-------------	-----	-----	-----	-----	------	-----	-----

5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0

Year:	2015 --	Model	Years	1971 to	2015 Inclusive	--	Annual
Emfac2007Emission Factors:		V2.3	Nov	1 2006			

County	Average	Alameda	County	Average
Alameda	60%	78%	Alameda	60%
Contra Costa	59%	78%	Contra Costa	59%
Fresno	57%	78%	Fresno	57%
Humboldt	56%	78%	Humboldt	56%
Kern	55%	78%	Kern	55%
Lakeview	54%	78%	Lakeview	54%
Madera	53%	78%	Madera	53%
Merced	52%	78%	Merced	52%
Santa Clara	51%	78%	Santa Clara	51%
Tulare	50%	78%	Tulare	50%
Yuba	49%	78%	Yuba	49%
San Joaquin	48%	78%	San Joaquin	48%
Stanislaus	47%	78%	Stanislaus	47%
Butte	46%	78%	Butte	46%
Colusa	45%	78%	Colusa	45%
El Dorado	44%	78%	El Dorado	44%
Inyo	43%	78%	Inyo	43%
Mariposa	42%	78%	Mariposa	42%
Nevada	41%	78%	Nevada	41%
Oakland	40%	78%	Oakland	40%
Palm Springs	39%	78%	Palm Springs	39%
Riverside	38%	78%	Riverside	38%
Sacramento	37%	78%	Sacramento	37%
Shasta	36%	78%	Shasta	36%
Siskiyou	35%	78%	Siskiyou	35%
Sonoma	34%	78%	Sonoma	34%
Trinity	33%	78%	Trinity	33%
Ventura	32%	78%	Ventura	32%
Yavapai	31%	78%	Yavapai	31%
Yavuma	30%	78%	Yavuma	30%
Yuma	29%	78%	Yuma	29%

Table	5a:	Partial	Day	Diurnal	Loss	Emissions (grams/hour)
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Pollutant Name: Methane Temperature: ALL Relative Humidity: ALL

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
--------------	-----	-----	-----	-----	------	-----	-----

70 0 0 0 0 0 0

Title : Oakland CBD emission rate
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 12/6/2010 10:44:50
Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
Season : Annual
Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 5b: Multi-Day Diurnal Loss Emissions (grams/hour)

Pollutant Name: Methane Temperatu ALL Relative Humidity: ALL

Temp
degF LDA LDT MDT HDT UBUS MCY ALL

70 0 0 0 0 0 0 0

C-22

Title : Oakland CBD emission rate
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 12/6/2010 10:44:50
Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
Season : Annual
Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 6a: Partial Day Resting Loss Emissions (grams/hour)

Pollutant Name: Methane Temperatu ALL Relative Humidity: ALL

Temp
degF LDA LDT MDT HDT UBUS MCY ALL

70 0 0 0 0 0 0 0

Title : Oakland CBD emission rate
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 12/6/2010 10:44:50
Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
Season : Annual
Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 6b: Multi-Day Resting Loss Emissions (grams/hour)

Pollutant Name: Methane Temperatu ALL Relative Humidity: ALL

Temp degF LDA LDT MDT HDT UBUS MCY ALL

70 0 0 0 0 0 0 0

C23

Title : Oakland CBD emission rate
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 12/6/2010 10:44:50
Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
Season : Annual
Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 7:00 Estimated Travel Fractions

Pollutant Name: Temperatu ALL Relative Humidity: ALL

LDA LDT MDT HDT UBUS MCY ALL

%VMT 0.534 0.319 0.08 0.055 0.005 0.007 1

%TRIP 0.52 0.289 0.112 0.069 0.001 0.008 1

%VEH 0.558 0.313 0.075 0.026 0.001 0.028 1

Title : Oakland CBD emission rate
 Version : Emfac2007 V2.3 Nov 1 2006
 Run Date : 12/6/2010 10:44:50
 Scen Year: 2015 -- All model years in the range 1971 to 2015 selected
 Season : Annual
 Area : Alameda

Year: 2015 -- Model Years 1971 to 2015 Inclusive -- Annual
 Emfac2007 Emission Factors: V2.3 Nov 1 2006

County Average Alameda County Average

Table 8:00 Evaporative Running Loss Emissions (grams/minute)

Pollutant Name: Methane Temperature 70F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0

Street Segment	Modeled Noise Level at 50 Feet From Roadway Centerline						Project + Cumulative Change from Existing
	Existing (2010)	Existing + Proposed Project	Change vs. Existing	Cumulative (2035)	Cumulative (2035) + Proposed Project	Change vs. Cumulative	
Oak Grove Avenue							
Middlefield to Laurel	65.7	65.8	0.0	68.3	68.3	0.0	2.6
Laurel to El Camino	67.4	67.4	0.0	70.0	70.0	0.0	2.6
El Camino to Crane	66.8	66.8	0.0	70.4	70.4	0.0	3.6
Crane to University	65.2	65.4	0.2	69.5	69.6	0.1	4.4
Santa Cruz Avenue							
University to Olive	62.7	62.9	0.2	68.7	68.8	0.1	6.1
Olive to Avy/Orange	68.5	68.5	0.0	72.8	72.8	0.0	4.3
Avy/Orange to Alameda de las Pulgas	64.5	64.5	0.1	65.1	65.1	0.0	0.7
Menlo Avenue							
El Camino to Crane	61.9	62.4	0.5	64.3	64.5	0.3	2.6
Crane to University	64.3	64.5	0.2	68.2	68.3	0.1	4.0
Ravenswood Avenue							
Middlefield to Laurel	70.4	70.5	0.1	70.5	70.5	0.0	0.1
Laurel to Alma	67.9	68.0	0.1	70.1	70.1	0.1	2.3
Alma to El Camino	67.8	67.9	0.2	69.9	70.0	0.1	2.2
University Avenue							
Oak Grove to Santa Cruz	64.4	64.8	0.4	64.9	#NUM!	#NUM!	#NUM!
Santa Cruz to Menlo	69.3	69.5	0.2	72.4	72.5	0.1	3.2
Middlefield Road							
Ringwood to Willow	70.2	70.4	0.2	72.3	72.4	0.1	2.2

Traffic Noise Level Estimates

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ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						calveno factors			(15 meters from roadway center)	
		Auto	Medium Truck		Heavy Truck		Auto	k/h	MT	k/h	HT	k/h	Auto	MT	HT			
		%	Auto	%	MT	%	HT											
5th Street west of Broadway (one way eastbound)																		
Existing (2010)	870	95	827	3	26	2	17	30	48	30	48	30	48	61.6	57.2	62.5	65.7	
Existing + Project	880	95	836	3	26	2	18	30	48	30	48	30	48	61.6	57.2	62.6	65.8	
Cumulative (2035)	1,560	95	1,482	3	47	2	31	30	48	30	48	30	48	64.1	59.7	65.1	68.3	
Cumulative (2035) + Project	1,570	95	1,492	3	47	2	31	30	48	30	48	30	48	64.1	59.7	65.1	68.3	
6th Street west of Broadway (one way westbound)																		
Existing (2010)	1,280	95	1,216	3	38	2	26	30	48	30	48	30	48	63.2	58.8	64.2	67.4	
Existing + Project	1,280	95	1,216	3	38	2	26	30	48	30	48	30	48	63.2	58.8	64.2	67.4	
Cumulative (2035)	2,320	95	2,204	3	70	2	46	30	48	30	48	30	48	65.8	61.4	66.8	70.0	
Cumulative (2035) + Project	2,320	95	2,204	3	70	2	46	30	48	30	48	30	48	65.8	61.4	66.8	70.0	
7th Street east of Mandela Parkway																		
Existing (2010)	1,110	95	1,055	3	33	2	22	30	48	30	48	30	48	62.6	58.2	63.6	66.8	
Existing + Project	1,110	95	1,055	3	33	2	22	30	48	30	48	30	48	62.6	58.2	63.6	66.8	
Cumulative (2035)	2,540	95	2,413	3	76	2	51	30	48	30	48	30	48	66.2	61.8	67.2	70.4	
Cumulative (2035) + Project	2,550	95	2,423	3	77	2	51	30	48	30	48	30	48	66.2	61.8	67.2	70.4	
7th Street west of Clay Street (one way eastbound)																		
Existing (2010)	770	95	732	3	23	2	15	30	48	30	48	30	48	61.0	56.6	62.0	65.2	
Existing + Project	800	95	760	3	24	2	16	30	48	30	48	30	48	61.2	56.8	62.2	65.4	
Cumulative (2035)	2,080	95	1,976	3	62	2	42	30	48	30	48	30	48	65.3	60.9	66.3	69.5	
Cumulative (2035) + Project	2,110	95	2,005	3	63	2	42	30	48	30	48	30	48	65.4	61.0	66.4	69.6	
8th Street west of Broadway (one way westbound)																		
Existing (2010)	430	95	409	3	13	2	9	30	48	30	48	30	48	58.5	54.1	59.5	62.7	
Existing + Project	450	95	428	3	14	2	9	30	48	30	48	30	48	58.7	54.3	59.7	62.9	
Cumulative (2035)	1,720	95	1,634	3	52	2	34	30	48	30	48	30	48	64.5	60.1	65.5	68.7	
Cumulative (2035) + Project	1,760	95	1,672	3	53	2	35	30	48	30	48	30	48	64.6	60.2	65.6	68.8	
7th Street east of Fallon Stree																		
Existing (2010)	1,630	95	1,549	3	49	2	33	30	48	30	48	30	48	64.3	59.9	65.3	68.5	
Existing + Project	1,630	95	1,549	3	49	2	33	30	48	30	48	30	48	64.3	59.9	65.3	68.5	
Cumulative (2035)	4,390	95	4,171	3	132	2	88	30	48	30	48	30	48	68.6	64.2	69.6	72.8	
Cumulative (2035) + Project	4,400	95	4,180	3	132	2	88	30	48	30	48	30	48	68.6	64.2	69.6	72.8	
11th Street west of Broadway (one way eastbound)																		
Existing (2010)	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5	
Existing + Project	660	95	627	3	20	2	13	30	48	30	48	30	48	60.4	56.0	61.3	64.5	
Cumulative (2035)	760	95	722	3	23	2	15	30	48	30	48	30	48	61.0	56.6	61.9	65.1	
Cumulative (2035) + Project	760	95	722	3	23	2	15	30	48	30	48	30	48	61.0	56.6	61.9	65.1	
11th Street west of Oak Street (one way eastbound)																		
Existing (2010)	360	95	342	3	11	2	7	30	48	30	48	30	48	57.7	53.3	58.7	61.9	
Existing + Project	400	95	380	3	12	2	8	30	48	30	48	30	48	58.2	53.8	59.2	62.4	
Cumulative (2035)	620	95	589	3	19	2	12	30	48	30	48	30	48	60.1	55.7	61.1	64.3	
Cumulative (2035) + Project	660	95	627	3	20	2	13	30	48	30	48	30	48	60.4	56.0	61.3	64.5	

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12th Street west of Broadway (one way westbound)

Existing (2010)	620	95	589	3	19	2	12	30	48	30	48	30	48	60.1	55.7	61.1	64.3
Existing + Project	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5
Cumulative (2035)	1,540	95	1,463	3	46	2	31	30	48	30	48	30	48	64.0	59.6	65.0	68.2
Cumulative (2035) + Project	1,570	95	1,492	3	47	2	31	30	48	30	48	30	48	64.1	59.7	65.1	68.3

12th Street west of Oak Street (one way westbound)

Existing (2010)	2,570	95	2,442	3	77	2	51	30	48	30	48	30	48	66.3	61.9	67.2	70.4
Existing + Project	2,600	95	2,470	3	78	2	52	30	48	30	48	30	48	66.3	61.9	67.3	70.5
Cumulative (2035)	2,600	95	2,470	3	78	2	52	30	48	30	48	30	48	66.3	61.9	67.3	70.5
Cumulative (2035) + Project	2,620	95	2,489	3	79	2	52	30	48	30	48	30	48	66.3	61.9	67.3	70.5

East 12th Street east of 5th Avenue

Existing (2010)	1,420	95	1,349	3	43	2	28	30	48	30	48	30	48	63.7	59.3	64.7	67.9
Existing + Project	1,460	95	1,387	3	44	2	29	30	48	30	48	30	48	63.8	59.4	64.8	68.0
Cumulative (2035)	2,370	95	2,252	3	71	2	47	30	48	30	48	30	48	65.9	61.5	66.9	70.1
Cumulative (2035) + Project	2,400	95	2,280	3	72	2	48	30	48	30	48	30	48	66.0	61.6	66.9	70.1

14th Street west of Oak Street

Existing (2010)	1,390	95	1,321	3	42	2	28	30	48	30	48	30	48	63.6	59.2	64.6	67.8
Existing + Project	1,450	95	1,378	3	44	2	29	30	48	30	48	30	48	63.8	59.4	64.8	67.9
Cumulative (2035)	2,260	95	2,147	3	68	2	45	30	48	30	48	30	48	65.7	61.3	66.7	69.9
Cumulative (2035) + Project	2,320	95	2,204	3	70	2	46	30	48	30	48	30	48	65.8	61.4	66.8	70.0

14th Street west of Broadway

Existing (2010)	640	95	608	3	19	2	13	30	48	30	48	30	48	60.2	55.8	61.2	64.4
Existing + Project	700	95	665	3	21	2	14	30	48	30	48	30	48	60.6	56.2	61.6	64.8
Cumulative (2035)	720	95	684	3	22	2	14	30	48	30	48	30	48	60.7	56.3	61.7	64.9
Cumulative (2035) + Project		95	0	3	0	2	0	30	48	30	48	30	48	#NUM!	#NUM!	#NUM!	#NUM!

West Grand Avenue west of Martin Luther King Way

Existing (2010)	1,980	95	1,881	3	59	2	40	30	48	30	48	30	48	65.1	60.7	66.1	69.3
Existing + Project	2,090	95	1,986	3	63	2	42	30	48	30	48	30	48	65.4	61.0	66.3	69.5
Cumulative (2035)	4,000	95	3,800	3	120	2	80	30	48	30	48	30	48	68.2	63.8	69.2	72.4
Cumulative (2035) + Project	4,110	95	3,905	3	123	2	82	30	48	30	48	30	48	68.3	63.9	69.3	72.5

Grand Avenue between Harrison Street and I-580

Existing (2010)	2,460	95	2,337	3	74	2	49	30	48	30	48	30	48	66.1	61.7	67.0	70.2
Existing + Project	2,550	95	2,423	3	77	2	51	30	48	30	48	30	48	66.2	61.8	67.2	70.4
Cumulative (2035)	3,970	95	3,772	3	119	2	79	30	48	30	48	30	48	68.1	63.7	69.1	72.3
Cumulative (2035) + Project	4,080	95	3,876	3	122	2	82	30	48	30	48	30	48	68.3	63.9	69.2	72.4

27th Street west of Harrison Street

Existing (2010)	1,010	95	960	3	30	2	20	30	48	30	48	30	48	62.2	57.8	63.2	66.4
Existing + Project	1,100	95	1,045	3	33	2	22	30	48	30	48	30	48	62.6	58.2	63.6	66.7
Cumulative (2035)	2,110	95	2,005	3	63	2	42	30	48	30	48	30	48	65.4	61.0	66.4	69.6
Cumulative (2035) + Project	2,200	95	2,090	3	66	2	44	30	48	30	48	30	48	65.6	61.2	66.6	69.8

Embarcadero east of Oak Street

Existing (2010)	450	95	428	3	14	2	9	30	48	30	48	30	48	58.7	54.3	59.7	62.9
Existing + Project	620	95	589	3	19	2	12	30	48	30	48	30	48	60.1	55.7	61.1	64.3
Cumulative (2035)	1,380	95	1,311	3	41	2	28	30	48	30	48	30	48	63.6	59.2	64.5	67.7
Cumulative (2035) + Project	1,540	95	1,463	3	46	2	31	30	48	30	48	30	48	64.0	59.6	65.0	68.2

Embarcadero east of 5th Avenue

Existing (2010)	860	95	817	3	26	2	17	30	48	30	48	30	48	61.5	57.1	62.5	65.7
Existing + Project	980	95	931	3	29	2	20	30	48	30	48	30	48	62.1	57.7	63.1	66.2
Cumulative (2035)	1,840	95	1,748	3	55	2	37	30	48	30	48	30	48	64.8	60.4	65.8	69.0
Cumulative (2035) + Project	1,940	95	1,843	3	58	2	39	30	48	30	48	30	48	65.0	60.6	66.0	69.2

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San Pablo Avenue north of West Grand Avenue																	
Existing (2010)	1,570	95	1,492	3	47	2	31	30	48	30	48	30	48	64.1	59.7	65.1	68.3
Existing + Project	1,700	95	1,615	3	51	2	34	30	48	30	48	30	48	64.5	60.1	65.4	68.6
Cumulative (2035)	3,060	95	2,907	3	92	2	61	30	48	30	48	30	48	67.0	62.6	68.0	71.2
Cumulative (2035) + Project	3,190	95	3,031	3	96	2	64	30	48	30	48	30	48	67.2	62.8	68.2	71.4
Broadway north of Grand Avenue																	
Existing (2010)	1,290	95	1,226	3	39	2	26	30	48	30	48	30	48	63.3	58.9	64.2	67.4
Existing + Project	1,520	95	1,444	3	46	2	30	30	48	30	48	30	48	64.0	59.6	65.0	68.2
Cumulative (2035)	2,290	95	2,176	3	69	2	46	30	48	30	48	30	48	65.8	61.4	66.7	69.9
Cumulative (2035) + Project	2,520	95	2,394	3	76	2	50	30	48	30	48	30	48	66.2	61.8	67.2	70.3
Broadway north of 8th Street																	
Existing (2010)	1,080	95	1,026	3	32	2	22	30	48	30	48	30	48	62.5	58.1	63.5	66.7
Existing + Project	1,120	95	1,064	3	34	2	22	30	48	30	48	30	48	62.7	58.3	63.6	66.8
Cumulative (2035)	1,130	95	1,074	3	34	2	23	30	48	30	48	30	48	62.7	58.3	63.7	66.9
Cumulative (2035) + Project	1,180	95	1,121	3	35	2	24	30	48	30	48	30	48	62.9	58.5	63.9	67.1
Harrison Street north of Grand Avenue																	
Existing (2010)	1,670	95	1,587	3	50	2	33	30	48	30	48	30	48	64.4	60.0	65.4	68.6
Existing + Project	1,720	95	1,634	3	52	2	34	30	48	30	48	30	48	64.5	60.1	65.5	68.7
Cumulative (2035)	2,640	95	2,508	3	79	2	53	30	48	30	48	30	48	66.4	62.0	67.4	70.6
Cumulative (2035) + Project	2,700	95	2,565	3	81	2	54	30	48	30	48	30	48	66.5	62.1	67.5	70.6
Jackson Street north of 7th Street																	
Existing (2010)	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5
Existing + Project	680	95	646	3	20	2	14	30	48	30	48	30	48	60.5	56.1	61.5	64.7
Cumulative (2035)	910	95	865	3	27	2	18	30	48	30	48	30	48	61.7	57.3	62.7	65.9
Cumulative (2035) + Project	950	95	903	3	29	2	19	30	48	30	48	30	48	61.9	57.5	62.9	66.1
Madison Street north of 8th Street (one way southbound)																	
Existing (2010)	580	95	551	3	17	2	12	30	48	30	48	30	48	59.8	55.4	60.8	64.0
Existing + Project	710	95	675	3	21	2	14	30	48	30	48	30	48	60.7	56.3	61.7	64.8
Cumulative (2035)	1,310	95	1,245	3	39	2	26	30	48	30	48	30	48	63.3	58.9	64.3	67.5
Cumulative (2035) + Project	1,430	95	1,359	3	43	2	29	30	48	30	48	30	48	63.7	59.3	64.7	67.9
Oak Street north of 8th Street (one way northbound)																	
Existing (2010)	960	95	912	3	29	2	19	30	48	30	48	30	48	62.0	57.6	63.0	66.2
Existing + Project	1,070	95	1,017	3	32	2	21	30	48	30	48	30	48	62.5	58.1	63.4	66.6
Cumulative (2035)	960	95	912	3	29	2	19	30	48	30	48	30	48	62.0	57.6	63.0	66.2
Cumulative (2035) + Project	1,070	95	1,017	3	32	2	21	30	48	30	48	30	48	62.5	58.1	63.4	66.6
5th Avenue south of East 12th Street																	
Existing (2010)	580	95	551	3	17	2	12	30	48	30	48	30	48	59.8	55.4	60.8	64.0
Existing + Project	680	95	646	3	20	2	14	30	48	30	48	30	48	60.5	56.1	61.5	64.7
Cumulative (2035)	1,390	95	1,321	3	42	2	28	30	48	30	48	30	48	63.6	59.2	64.6	67.8
Cumulative (2035) + Project	1,490	95	1,416	3	45	2	30	30	48	30	48	30	48	63.9	59.5	64.9	68.1
SR-260 (Posey and Webster Tubes) at Oakland City Limit																	
Existing (2010)	5,000	95	4,750	3	150	2	100	30	48	30	48	30	48	69.1	64.7	70.1	73.3
Existing + Project	5,040	95	4,788	3	151	2	101	30	48	30	48	30	48	69.2	64.8	70.2	73.4
Cumulative (2035)	7,330	95	6,964	3	220	2	147	30	48	30	48	30	48	70.8	66.4	71.8	75.0
Cumulative (2035) + Project	7,380	95	7,011	3	221	2	148	30	48	30	48	30	48	70.8	66.4	71.8	75.0

Street Segment	Modeled Noise Level at 50 Feet From Roadway Centerline						Project + Cumulative Change from Existing
	Existing (2010)	Existing + Proposed Project	Change vs. Existing	Cumulative (2035)	Cumulative (2035) + Proposed Project	Change vs. Cumulative	
Oak Grove Avenue							
Middlefield to Laurel	65.7	65.8	0.0	66.3	66.4	0.1	0.7
Laurel to El Camino	67.4	67.4	0.0	68.1	68.1	0.0	0.7
El Camino to Crane	66.8	66.8	0.0	67.8	67.8	0.1	1.0
Crane to University	65.2	65.4	0.2	66.5	66.6	0.1	1.4
Santa Cruz Avenue							
University to Olive	62.7	62.9	0.2	64.7	65.0	0.2	2.3
Olive to Avy/Orange	68.5	68.5	0.0	69.7	69.7	0.0	1.3
Avy/Orange to Alameda de las Pulgas	64.5	64.5	0.1	64.6	64.7	0.1	0.2
Menlo Avenue							
El Camino to Crane	61.9	62.4	0.5	62.6	62.9	0.3	1.0
Crane to University	64.3	64.5	0.2	65.4	65.5	0.2	1.3
Ravenswood Avenue							
Middlefield to Laurel	70.4	70.5	0.1	70.5	70.5	0.0	0.1
Laurel to Alma	67.9	68.0	0.1	68.4	68.5	0.1	0.7
Alma to El Camino	67.8	67.9	0.2	68.3	68.4	0.1	0.7
University Avenue							
Oak Grove to Santa Cruz	64.3	64.4	0.1	64.4	64.5	0.1	0.2
Santa Cruz to Menlo	69.3	69.5	0.2	70.1	70.3	0.2	1.0
Middlefield Road							
Ringwood to Willow	70.2	70.4	0.2	70.7	70.9	0.2	0.7

Traffic Noise Level Estimates

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ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %							VEHICLE SPEED							calveno factors			(15 meters from roadway center)
		Auto	Medium Truck		Heavy Truck		Auto k/h	MT k/h	HT k/h	Auto	MT	HT							
		%	Auto	%	MT	%	HT												
5th Street west of Broadway (one way eastbound)																			
Existing (2010)	870	95	827	3	26	2	17	30	48	30	48	30	48	61.6	57.2	62.5	65.7		
Existing + Project	880	95	836	3	26	2	18	30	48	30	48	30	48	61.6	57.2	62.6	65.8		
Near Term (2015)	1,000	95	950	3	30	2	20	30	48	30	48	30	48	62.2	57.8	63.1	66.3		
Near Term (2015) + Project	1,020	95	969	3	31	2	20	30	48	30	48	30	48	62.2	57.8	63.2	66.4		
6th Street west of Broadway (one way westbound)																			
Existing (2010)	1,280	95	1,216	3	38	2	26	30	48	30	48	30	48	63.2	58.8	64.2	67.4		
Existing + Project	1,280	95	1,216	3	38	2	26	30	48	30	48	30	48	63.2	58.8	64.2	67.4		
Near Term (2015)	1,490	95	1,416	3	45	2	30	30	48	30	48	30	48	63.9	59.5	64.9	68.1		
Near Term (2015) + Project	1,490	95	1,416	3	45	2	30	30	48	30	48	30	48	63.9	59.5	64.9	68.1		
7th Street east of Mandela Parkway																			
Existing (2010)	1,110	95	1,055	3	33	2	22	30	48	30	48	30	48	62.6	58.2	63.6	66.8		
Existing + Project	1,110	95	1,055	3	33	2	22	30	48	30	48	30	48	62.6	58.2	63.6	66.8		
Near Term (2015)	1,390	95	1,321	3	42	2	28	30	48	30	48	30	48	63.6	59.2	64.6	67.8		
Near Term (2015) + Project	1,410	95	1,340	3	42	2	28	30	48	30	48	30	48	63.7	59.3	64.6	67.8		
7th Street west of Clay Street (one way eastbound)																			
Existing (2010)	770	95	732	3	23	2	15	30	48	30	48	30	48	61.0	56.6	62.0	65.2		
Existing + Project	800	95	760	3	24	2	16	30	48	30	48	30	48	61.2	56.8	62.2	65.4		
Near Term (2015)	1,040	95	988	3	31	2	21	30	48	30	48	30	48	62.3	57.9	63.3	66.5		
Near Term (2015) + Project	1,070	95	1,017	3	32	2	21	30	48	30	48	30	48	62.5	58.1	63.4	66.6		
8th Street west of Broadway (one way westbound)																			
Existing (2010)	430	95	409	3	13	2	9	30	48	30	48	30	48	58.5	54.1	59.5	62.7		
Existing + Project	450	95	428	3	14	2	9	30	48	30	48	30	48	58.7	54.3	59.7	62.9		
Near Term (2015)	690	95	656	3	21	2	14	30	48	30	48	30	48	60.5	56.1	61.5	64.7		
Near Term (2015) + Project	730	95	694	3	22	2	15	30	48	30	48	30	48	60.8	56.4	61.8	65.0		
7th Street east of Fallon Stree																			
Existing (2010)	1,630	95	1,549	3	49	2	33	30	48	30	48	30	48	64.3	59.9	65.3	68.5		
Existing + Project	1,630	95	1,549	3	49	2	33	30	48	30	48	30	48	64.3	59.9	65.3	68.5		
Near Term (2015)	2,180	95	2,071	3	65	2	44	30	48	30	48	30	48	65.5	61.1	66.5	69.7		
Near Term (2015) + Project	2,190	95	2,081	3	66	2	44	30	48	30	48	30	48	65.6	61.2	66.5	69.7		
11th Street west of Broadway (one way eastbound)																			
Existing (2010)	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5		
Existing + Project	660	95	627	3	20	2	13	30	48	30	48	30	48	60.4	56.0	61.3	64.5		
Near Term (2015)	670	95	637	3	20	2	13	30	48	30	48	30	48	60.4	56.0	61.4	64.6		
Near Term (2015) + Project	680	95	646	3	20	2	14	30	48	30	48	30	48	60.5	56.1	61.5	64.7		
11th Street west of Oak Street (one way eastbound)																			
Existing (2010)	360	95	342	3	11	2	7	30	48	30	48	30	48	57.7	53.3	58.7	61.9		
Existing + Project	400	95	380	3	12	2	8	30	48	30	48	30	48	58.2	53.8	59.2	62.4		
Near Term (2015)	420	95	399	3	13	2	8	30	48	30	48	30	48	58.4	54.0	59.4	62.6		
Near Term (2015) + Project	450	95	428	3	14	2	9	30	48	30	48	30	48	58.7	54.3	59.7	62.9		

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12th Street west of Broadway (one way westbound)																		
Existing (2010)	620	95	589	3	19	2	12	30	48	30	48	30	48	60.1	55.7	61.1	64.3	
Existing + Project	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5	
Near Term (2015)	800	95	760	3	24	2	16	30	48	30	48	30	48	61.2	56.8	62.2	65.4	
Near Term (2015) + Project	830	95	789	3	25	2	17	30	48	30	48	30	48	61.3	57.0	62.3	65.5	
12th Street west of Oak Street (one way westbound)																		
Existing (2010)	2,570	95	2,442	3	77	2	51	30	48	30	48	30	48	66.3	61.9	67.2	70.4	
Existing + Project	2,600	95	2,470	3	78	2	52	30	48	30	48	30	48	66.3	61.9	67.3	70.5	
Near Term (2015)	2,580	95	2,451	3	77	2	52	30	48	30	48	30	48	66.3	61.9	67.3	70.5	
Near Term (2015) + Project	2,600	95	2,470	3	78	2	52	30	48	30	48	30	48	66.3	61.9	67.3	70.5	
East 12th Street east of 5th Avenue																		
Existing (2010)	1,420	95	1,349	3	43	2	28	30	48	30	48	30	48	63.7	59.3	64.7	67.9	
Existing + Project	1,460	95	1,387	3	44	2	29	30	48	30	48	30	48	63.8	59.4	64.8	68.0	
Near Term (2015)	1,620	95	1,539	3	49	2	32	30	48	30	48	30	48	64.3	59.9	65.2	68.4	
Near Term (2015) + Project	1,650	95	1,568	3	50	2	33	30	48	30	48	30	48	64.3	59.9	65.3	68.5	
14th Street west of Oak Stree																		
Existing (2010)	1,390	95	1,321	3	42	2	28	30	48	30	48	30	48	63.6	59.2	64.6	67.8	
Existing + Project	1,450	95	1,378	3	44	2	29	30	48	30	48	30	48	63.8	59.4	64.8	67.9	
Near Term (2015)	1,570	95	1,492	3	47	2	31	30	48	30	48	30	48	64.1	59.7	65.1	68.3	
Near Term (2015) + Project	1,620	95	1,539	3	49	2	32	30	48	30	48	30	48	64.3	59.9	65.2	68.4	
14th Street west of Broadway																		
Existing (2010)	620	95	589	3	19	2	12	30	48	30	48	30	48	60.1	55.7	61.1	64.3	
Existing + Project	640	95	608	3	19	2	13	30	48	30	48	30	48	60.2	55.8	61.2	64.4	
Near Term (2015)	640	95	608	3	19	2	13	30	48	30	48	30	48	60.2	55.8	61.2	64.4	
Near Term (2015) + Project	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5	
West Grand Avenue west of Martin Luther King Way																		
Existing (2010)	1,980	95	1,881	3	59	2	40	30	48	30	48	30	48	65.1	60.7	66.1	69.3	
Existing + Project	2,090	95	1,986	3	63	2	42	30	48	30	48	30	48	65.4	61.0	66.3	69.5	
Near Term (2015)	2,380	95	2,261	3	71	2	48	30	48	30	48	30	48	65.9	61.5	66.9	70.1	
Near Term (2015) + Project	2,500	95	2,375	3	75	2	50	30	48	30	48	30	48	66.1	61.7	67.1	70.3	
Grand Avenue between Harrison Street and I-580																		
Existing (2010)	2,460	95	2,337	3	74	2	49	30	48	30	48	30	48	66.1	61.7	67.0	70.2	
Existing + Project	2,550	95	2,423	3	77	2	51	30	48	30	48	30	48	66.2	61.8	67.2	70.4	
Near Term (2015)	2,760	95	2,622	3	83	2	55	30	48	30	48	30	48	66.6	62.2	67.5	70.7	
Near Term (2015) + Project	2,860	95	2,717	3	86	2	57	30	48	30	48	30	48	66.7	62.3	67.7	70.9	
27th Street west of Harrison Stree																		
Existing (2010)	1,010	95	960	3	30	2	20	30	48	30	48	30	48	62.2	57.8	63.2	66.4	
Existing + Project	1,100	95	1,045	3	33	2	22	30	48	30	48	30	48	62.6	58.2	63.6	66.7	
Near Term (2015)	1,230	95	1,169	3	37	2	25	30	48	30	48	30	48	63.1	58.7	64.0	67.2	
Near Term (2015) + Project	1,320	95	1,254	3	40	2	26	30	48	30	48	30	48	63.4	59.0	64.3	67.5	
Embarcadero east of Oak Stree																		
Existing (2010)	450	95	428	3	14	2	9	30	48	30	48	30	48	58.7	54.3	59.7	62.9	
Existing + Project	620	95	589	3	19	2	12	30	48	30	48	30	48	60.1	55.7	61.1	64.3	
Near Term (2015)	640	95	608	3	19	2	13	30	48	30	48	30	48	60.2	55.8	61.2	64.4	
Near Term (2015) + Project	800	95	760	3	24	2	16	30	48	30	48	30	48	61.2	56.8	62.2	65.4	
Embarcadero east of 5th Avenue																		
Existing (2010)	860	95	817	3	26	2	17	30	48	30	48	30	48	61.5	57.1	62.5	65.7	
Existing + Project	980	95	931	3	29	2	20	30	48	30	48	30	48	62.1	57.7	63.1	66.2	
Near Term (2015)	1,050	95	998	3	32	2	21	30	48	30	48	30	48	62.4	58.0	63.4	66.5	
Near Term (2015) + Project	1,170	95	1,112	3	35	2	23	30	48	30	48	30	48	62.8	58.4	63.8	67.0	

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San Pablo Avenue north of West Grand Avenue																		
Existing (2010)	1,570	95	1,492	3	47	2	31	30	48	30	48	30	48	64.1	59.7	65.1	68.3	
Existing + Project	1,700	95	1,615	3	51	2	34	30	48	30	48	30	48	64.5	60.1	65.4	68.6	
Near Term (2015)	1,870	95	1,777	3	56	2	37	30	48	30	48	30	48	64.9	60.5	65.9	69.1	
Near Term (2015) + Project	2,000	95	1,900	3	60	2	40	30	48	30	48	30	48	65.2	60.8	66.1	69.3	
Broadway north of Grand Avenue																		
Existing (2010)	1,290	95	1,226	3	39	2	26	30	48	30	48	30	48	63.3	58.9	64.2	67.4	
Existing + Project	1,520	95	1,444	3	46	2	30	30	48	30	48	30	48	64.0	59.6	65.0	68.2	
Near Term (2015)	1,490	95	1,416	3	45	2	30	30	48	30	48	30	48	63.9	59.5	64.9	68.1	
Near Term (2015) + Project	1,720	95	1,634	3	52	2	34	30	48	30	48	30	48	64.5	60.1	65.5	68.7	
Broadway north of 8th Street																		
Existing (2010)	1,080	95	1,026	3	32	2	22	30	48	30	48	30	48	62.5	58.1	63.5	66.7	
Existing + Project	1,120	95	1,064	3	34	2	22	30	48	30	48	30	48	62.7	58.3	63.6	66.8	
Near Term (2015)	1,090	95	1,036	3	33	2	22	30	48	30	48	30	48	62.5	58.1	63.5	66.7	
Near Term (2015) + Project	1,140	95	1,083	3	34	2	23	30	48	30	48	30	48	62.7	58.3	63.7	66.9	
Harrison Street north of Grand Avenue																		
Existing (2010)	1,670	95	1,587	3	50	2	33	30	48	30	48	30	48	64.4	60.0	65.4	68.6	
Existing + Project	1,720	95	1,634	3	52	2	34	30	48	30	48	30	48	64.5	60.1	65.5	68.7	
Near Term (2015)	1,860	95	1,767	3	56	2	37	30	48	30	48	30	48	64.9	60.5	65.8	69.0	
Near Term (2015) + Project	1,920	95	1,824	3	58	2	38	30	48	30	48	30	48	65.0	60.6	66.0	69.2	
Jackson Street north of 7th Street																		
Existing (2010)	650	95	618	3	20	2	13	30	48	30	48	30	48	60.3	55.9	61.3	64.5	
Existing + Project	680	95	646	3	20	2	14	30	48	30	48	30	48	60.5	56.1	61.5	64.7	
Near Term (2015)	710	95	675	3	21	2	14	30	48	30	48	30	48	60.7	56.3	61.7	64.8	
Near Term (2015) + Project	740	95	703	3	22	2	15	30	48	30	48	30	48	60.9	56.5	61.8	65.0	
Madison Street north of 8th Street (one way southbound)																		
Existing (2010)	580	95	551	3	17	2	12	30	48	30	48	30	48	59.8	55.4	60.8	64.0	
Existing + Project	710	95	675	3	21	2	14	30	48	30	48	30	48	60.7	56.3	61.7	64.8	
Near Term (2015)	720	95	684	3	22	2	14	30	48	30	48	30	48	60.7	56.3	61.7	64.9	
Near Term (2015) + Project	850	95	808	3	26	2	17	30	48	30	48	30	48	61.5	57.1	62.4	65.6	
Oak Street north of 8th Street (one way northbound)																		
Existing (2010)	960	95	912	3	29	2	19	30	48	30	48	30	48	62.0	57.6	63.0	66.2	
Existing + Project	1,070	95	1,017	3	32	2	21	30	48	30	48	30	48	62.5	58.1	63.4	66.6	
Near Term (2015)	960	95	912	3	29	2	19	30	48	30	48	30	48	62.0	57.6	63.0	66.2	
Near Term (2015) + Project	1,070	95	1,017	3	32	2	21	30	48	30	48	30	48	62.5	58.1	63.4	66.6	
5th Avenue south of East 12th Street																		
Existing (2010)	580	95	551	3	17	2	12	30	48	30	48	30	48	59.8	55.4	60.8	64.0	
Existing + Project	680	95	646	3	20	2	14	30	48	30	48	30	48	60.5	56.1	61.5	64.7	
Near Term (2015)	750	95	713	3	23	2	15	30	48	30	48	30	48	60.9	56.5	61.9	65.1	
Near Term (2015) + Project	840	95	798	3	25	2	17	30	48	30	48	30	48	61.4	57.0	62.4	65.6	
SR-260 (Posey and Webster Tubes) at Oakland City Limit																		
Existing (2010)	5,000	95	4,750	3	150	2	100	30	48	30	48	30	48	69.1	64.7	70.1	73.3	
Existing + Project	5,040	95	4,788	3	151	2	101	30	48	30	48	30	48	69.2	64.8	70.2	73.4	
Near Term (2015)	5,470	95	5,197	3	164	2	109	30	48	30	48	30	48	69.5	65.1	70.5	73.7	
Near Term (2015) + Project	5,520	95	5,244	3	166	2	110	30	48	30	48	30	48	69.6	65.2	70.6	73.8	

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APPENDIX D

Biological Resources Supplemental Information

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United States Department of the Interior
FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825



October 27, 2010

Document Number: 101027052527

Michelle Giolli
Environmental Science Associates
350 Frank H. Ogawa Plaza, Suite 300
Oakland, CA 94612

Subject: Species List for 17th Amendment to the Central District Redevelopment Plan

Dear: Ms. Giolli

We are sending this official species list in response to your October 27, 2010 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 25, 2011.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office
Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 101027052527

Database Last Updated: April 29, 2010

No quad species lists requested.

County Lists

Alameda County

Listed Species

Invertebrates

Branchinecta longiantenna

Critical habitat, longhorn fairy shrimp (X)

longhorn fairy shrimp (E)

Branchinecta lynchi

Critical habitat, vernal pool fairy shrimp (X)

vernal pool fairy shrimp (T)

Euphydryas editha bayensis

bay checkerspot butterfly (T)

Lepidurus packardii

Critical habitat, vernal pool tadpole shrimp (X)

vernal pool tadpole shrimp (E)

Speyeria callippe callippe

callippe silverspot butterfly (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Eucyclogobius newberryi

tidewater goby (E)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

Oncorhynchus kisutch

coho salmon - central CA coast (E) (NMFS)

Oncorhynchus mykiss

Central California Coastal steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)

Critical habitat, winter-run chinook salmon (X) (NMFS)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense

California tiger salamander, central population (T)

Critical habitat, CA tiger salamander, central population (X)

Rana draytonii

California red-legged frog (T)

Critical habitat, California red-legged frog (X)

Reptiles

Masticophis lateralis euryxanthus

Alameda whipsnake [=striped racer] (T)

Critical habitat, Alameda whipsnake (X)

Birds

Pelecanus occidentalis californicus

California brown pelican (E)

Rallus longirostris obsoletus

California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni

California least tern (E)

Mammals

Reithrodontomys raviventris

salt marsh harvest mouse (E)

Vulpes macrotis mutica

San Joaquin kit fox (E)

Plants

Amsinckia grandiflora

large-flowered fiddleneck (E)

Arctostaphylos pallida

pallid manzanita (=Alameda or Oakland Hills manzanita) (T)

Clarkia franciscana

Presidio clarkia (E)

Cordylanthus palmatus

palmate-bracted bird's-beak (E)

Lasthenia conjugens

Contra Costa goldfields (E)

Critical habitat, Contra Costa goldfields (X)

Proposed Species

Amphibians

Rana draytonii

Critical habitat, California red-legged frog (PX)

Key:

(E) *Endangered* - Listed as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the

county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements;

cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 25, 2011.

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Central District Redevelopment: Oakland West, Oakland East, San Leandro, and Richmond Quads

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040			G5	S3	
2 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	SC
3 <i>Amsinckia lunaris</i> bent-flowered fiddleneck	PDBOR01070			G2	S2.2	1B.2
4 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
5 <i>Aquila chrysaetos</i> golden eagle	ABNKC22010			G5	S3	
6 <i>Archoplites interruptus</i> Sacramento perch	AFCQB07010			G3	S1	SC
7 <i>Arctostaphylos pallida</i> pallid manzanita	PDERI04110	Threatened	Endangered	G1	S1	1B.1
8 <i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
9 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
10 <i>Atriplex joaquiniana</i> San Joaquin sparscale	PDCHE041F3			G2	S2	1B.2
11 <i>California macrophylla</i> round-leaved filaree	PDGER01070			G2	S2	1B.1
12 <i>Calystegia purpurata</i> ssp. <i>saxicola</i> coastal bluff morning-glory	PDCON040D2			G4T2	S2.2	1B.2
13 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
14 <i>Centromadia parryi</i> ssp. <i>congdonii</i> Congdon's tarplant	PDAST4R0P1			G4T3	S3.2	1B.2
15 <i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened		G4T3	S2	SC
16 <i>Chorizanthe cuspidata</i> var. <i>cuspidata</i> San Francisco Bay spineflower	PDPGN04081			G2T2	S2.2	1B.2
17 <i>Chorizanthe robusta</i> var. <i>robusta</i> robust spineflower	PDPGN040Q2	Endangered		G2T1	S1.1	1B.1
18 <i>Cicindela hirticollis grvida</i> sandy beach tiger beetle	IICOL02101			G5T2	S1	
19 <i>Circus cyaneus</i> northern harrier	ABNKC11010			G5	S3	SC
20 <i>Clarkia concinna</i> ssp. <i>automixa</i> Santa Clara red ribbons	PDONA050A1			G5?T3	S3.3	4.3
21 <i>Clarkia franciscana</i> Presidio clarkia	PDONA050H0	Endangered	Endangered	G1	S1.1	1B.1
22 <i>Cordylanthus maritimus</i> ssp. <i>palustris</i> Point Reyes bird's-beak	PDSCR0J0C3			G4?T2	S2.2	1B.2
23 <i>Danaus plexippus</i> monarch butterfly	IILEPP2010			G5	S3	
24 <i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat	AMAFD03061			G3G4T1	S1	

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25 <i>Dirca occidentalis</i> western leatherwood	PDTHY03010			G2G3	S2S3	1B.2
26 <i>Egretta thula</i> snowy egret	ABNGA06030			G5	S4	
27 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
28 <i>Emys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
29 <i>Eriogonum luteolum var. caninum</i> Tiburon buckwheat	PDPGN083S1			G5T3	S3.2	1B.2
30 <i>Eucyclogobius newberryi</i> tidewater goby	AFCQN04010	Endangered		G3	S2S3	SC
31 <i>Euphydryas editha bayensis</i> Bay checkerspot butterfly	IILEPK4055	Threatened		G5T1	S1	
32 <i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2
33 <i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	ABPBX1201A			G5T2	S2	SC
34 <i>Gilia capitata ssp. chamissonis</i> blue coast gilia	PDPLM040B3			G5T2	S2.1	1B.1
35 <i>Helianthella castanea</i> Diablo helianthella	PDAST4M020			G3	S3.2	1B.2
36 <i>Helminthoglypta nickliniana bridgesi</i> Bridges' coast range shoulderband	IMGASC2362			G2T1	S1	
37 <i>Hemizonia congesta ssp. congesta</i> seaside tarplant	PDAST4R065			G5T2T3	S2S3	1B.2
38 <i>Hoita strobilina</i> Loma Prieta hoita	PDFAB5Z030			G2	S2.1	1B.1
39 <i>Holocarpha macradenia</i> Santa Cruz tarplant	PDAST4X020	Threatened	Endangered	G1	S1.1	1B.1
40 <i>Horkelia cuneata ssp. sericea</i> Kellogg's horkelia	PDROS0W043			G4T1	S1.1	1B.1
41 <i>Hydroprogne caspia</i> Caspian tern	ABNNM08020			G5	S4	
42 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	
43 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	
44 <i>Lasthenia conjugens</i> Contra Costa goldfields	PDAST5L040	Endangered		G1	S1.1	1B.1
45 <i>Lateralus jamaicensis coturniculus</i> California black rail	ABNME03041		Threatened	G4T1	S1	
46 <i>Layia carnosa</i> beach layia	PDAST5N010	Endangered	Endangered	G2	S2.1	1B.1
47 <i>Leptosiphon rosaceus</i> rose leptosiphon	PDPLM09180			G1	S1.1	1B.1
48 <i>Masticophis lateralis euryxanthus</i> Alameda whipsnake	ARADB21031	Threatened	Threatened	G4T2	S2	

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49 <i>Meconella oregana</i> Oregon meconella	PDPAP0G030			G2G3	S1.1	1B.1
50 <i>Melospiza melodia pusillula</i> Alameda song sparrow	ABPBXA301S			G5T2?	S2?	SC
51 <i>Melospiza melodia samuelis</i> San Pablo song sparrow	ABPBXA301W			G5T2?	S2?	SC
52 <i>Microcina leei</i> Lee's micro-blind harvestman	ILARA47040			G1	S1	
53 <i>Microtus californicus sanpabloensis</i> San Pablo vole	AMAFF11034			G5T1T2	S1S2	SC
54 <i>Monardella villosa ssp. globosa</i> robust monardella	PDLAM180P7			G5T2	S2.2	1B.2
55 <i>Monolopia gracilens</i> woodland woollythreads	PDAST6G010			G3	S3	1B.2
56 <i>Northern Coastal Salt Marsh</i>	CTT52110CA			G3	S3.2	
57 <i>Northern Maritime Chaparral</i>	CTT37C10CA			G1	S1.2	
58 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
59 <i>Nyctinomops macrotis</i> big free-tailed bat	AMACD04020			G5	S2	SC
60 <i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020			G5	S3	
61 <i>Plagiobothrys chorisianus var. chorisianus</i> Choris' popcorn-flower	PDBOR0V061			G3T2Q	S2.2	1B.2
62 <i>Plagiobothrys diffusus</i> San Francisco popcorn-flower	PDBOR0V080		Endangered	G1Q	S1.1	1B.1
63 <i>Rallus longirostris obsoletus</i> California clapper rail	ABNME05016	Endangered	Endangered	G5T1	S1	
64 <i>Rana boylei</i> foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
65 <i>Rana draytonii</i> California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3	SC
66 <i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2	
67 <i>Rynchops niger</i> black skimmer	ABNNM14010			G5	S1S3	SC
68 <i>Sanicula maritima</i> adobe sanicle	PDAP11Z0D0		Rare	G2	S2.2	1B.1
69 <i>Scapanus latimanus parvus</i> Alameda Island mole	AMABB02031			G5T1Q	S1	SC
70 <i>Serpentine Bunchgrass</i>	CTT42130CA			G2	S2.2	
71 <i>Sorex vagrans halicoetes</i> salt-marsh wandering shrew	AMABA01071			G5T1	S1	SC
72 <i>Sternula antillarum browni</i> California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2S3	
73 <i>Streptanthus albidus ssp. peramoenus</i> most beautiful jewel-flower	PDBRA2G012			G2T2	S2.2	1B.2

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74 <i>Stuckenia filiformis</i> slender-leaved pondweed	PMPOT03090			G5	S1S2	2.2
75 <i>Suaeda californica</i> California seablite	PDCHE0P020	Endangered		G1	S1.1	1B.1
76 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
77 <i>Trachusa gummifera</i> A leaf-cutter bee	IIHYM80010			G1	S1	
78 <i>Trifolium hydrophilum</i> saline clover	PDFAB400R5			G2?	S2.2?	1B.2
79 <i>Tryonia imitator</i> mimic tryonia (=California brackishwater snail)	IMGASJ7040			G2G3	S2S3	
80 <i>Valley Needlegrass Grassland</i>	CTT42110CA			G1	S3.1	
81 <i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010			G5	S3S4	SC

CNPS Inventory of Rare and Endangered Plants

Status: Plant Press Manager window with 50 items - Thu, Oct. 28, 2010 15:05 c

Reformat list as: Standard List - with Plant Press controls

ECOLOGICAL REPORT

scientific	family	life form	blooming	communities	elevation	CNPS
<u>Amsinckia lunaris</u>	Boraginaceae	annual herb	Mar-Jun	•Coastal bluff scrub (CBScr) •Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrS)	3 - 500 meters	List 1B.2
<u>Arctostaphylos franciscana</u>	Ericaceae	perennial evergreen shrub	Feb-Apr	•Coastal scrub (CoScr)(serpentine)	60 - 300 meters	List 1B.1
<u>Arctostaphylos hookeri ssp. ravenii</u>	Ericaceae	perennial evergreen shrub	Feb-Mar	•Chaparral (Chprl) •Coastal prairie (CoPrr) •Coastal scrub (CoScr)/serpentine outcrop	45 - 215 meters	List 1B.1
<u>Arctostaphylos imbricata</u>	Ericaceae	perennial evergreen shrub	Feb-May	•Chaparral (Chprl) •Coastal scrub (CoScr)/rocky	275 - 370 meters	List 1B.1
<u>Arctostaphylos montaraensis</u>	Ericaceae	perennial evergreen shrub	Jan-Mar	•Chaparral (Chprl) (maritime) •Coastal scrub (CoScr)	150 - 500 meters	List 1B.2
<u>Arctostaphylos pacifica</u>	Ericaceae	evergreen shrub	Feb-Apr	•Chaparral (Chprl) •Coastal scrub (CoScr)	330 - 330 meters	List 1B.2
<u>Arctostaphylos pallida</u>	Ericaceae	perennial evergreen shrub	Dec-Mar	•Broadleafed upland forest (BUFRs) •Closed-cone coniferous forest (CCFRs) •Chaparral (Chprl) •Cismontane woodland (CmWld) •Coastal scrub (CoScr)/siliceous shale, sandy or gravelly	185 - 465 meters	List 1B.1
<u>Arenaria paludicola</u>	Caryophyllaceae	perennial stoloniferous herb	May-Aug	•Marshes and swamps (MshSw) (freshwater or brackish)/sandy, openings	3 - 170 meters	List 1B.1
<u>Astragalus tener var. tener</u>	Fabaceae	annual herb	Mar-Jun	•Playas (Plyas) •Valley and foothill grassland (VFGrS) (adobe clay) •Vernal pools (VnPls)/alkaline	1 - 60 meters	List 1B.2
<u>Atriplex joaquiniana</u>	Chenopodiaceae	annual herb	Apr-Oct	•Chenopod scrub (ChScr) •Meadows and seeps (Medws) •Playas (Plyas)	1 - 835 meters	List 1B.2

				•Valley and foothill grassland (VFGrs)/alkaline		
<u>Balsamorhiza macrolepis</u> var. <u>macrolepis</u>	Asteraceae	perennial herb	Mar-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)/sometimes serpentinite	90 - 1555 meters	List 1B.2
<u>California macrophylla</u>	Geraniaceae	annual herb	Mar-May	•Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)/clay	15 - 1200 meters	List 1B.1
<u>Calochortus pulchellus</u>	Liliaceae	perennial bulbiferous herb	Apr-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Riparian woodland (RpWld) •Valley and foothill grassland (VFGrs)	30 - 840 meters	List 1B.2
<u>Calochortus tiburonensis</u>	Liliaceae	perennial bulbiferous herb	Mar-Jun	•Valley and foothill grassland (VFGrs) (serpentine)	50 - 150 meters	List 1B.1
<u>Calystegia purpurata</u> ssp. <u>saxicola</u>	Convolvulaceae	perennial herb	May-Sep	•Coastal dunes (CoDns) •Coastal scrub (CoScr) •North Coast coniferous forest (NCFrs)	10 - 105 meters	List 1B.2
<u>Carex comosa</u>	Cyperaceae	perennial rhizomatous herb	May-Sep	•Coastal prairie (CoPrr) •Marshes and swamps (MshSw) (lake margins) •Valley and foothill grassland (VFGrs)	0 - 625 meters	List 2.1
<u>Castilleja affinis</u> ssp. <u>neglecta</u>	Scrophulariaceae	perennial herb hemiparasitic	Apr-Jun	•Valley and foothill grassland (VFGrs) (serpentine)	60 - 400 meters	List 1B.2
<u>Centromadia parryi</u> ssp. <u>congdonii</u>	Asteraceae	annual herb	May-Oct (Nov) Months in parentheses are uncommon.	•Valley and foothill grassland (VFGrs) (alkaline)	1 - 230 meters	List 1B.2
<u>Centromadia parryi</u> ssp. <u>parryi</u>	Asteraceae	annual herb	May-Nov	•Chaparral (Chprl) •Coastal prairie (CoPrr) •Meadows and seeps (Medws) •Marshes and swamps (MshSw) (coastal salt) •Valley and foothill grassland (VFGrs) (vernally mesic)/often alkaline	2 - 420 meters	List 1B.2
<u>Chorizanthe cuspidata</u> var.	Polygonaceae	annual herb	Apr-Jul (Aug) Months in parentheses	•Coastal bluff scrub (CBScr) •Coastal dunes (CoDns) •Coastal prairie	3 - 215 meters	List 1B.2

<u>cuspidata</u>				are uncommon.	(CoPrr) •Coastal scrub (CoScr)/sandy		
<u>Chorizanthe robusta</u> var. <u>robusta</u>	Polygonaceae	annual herb	Apr-Sep		•Chaparral (Chprl) (maritime) •Cismontane woodland (CmWld) (openings) •Coastal dunes (CoDns) •Coastal scrub (CoScr)/sandy or gravelly	3 - 300 meters	List 1B.1
<u>Cirsium andrewsii</u>	Asteraceae	perennial herb	Mar-Jul		•Broadleafed upland forest (BUFr) •Coastal bluff scrub (CBScr) •Coastal prairie (CoPrr) •Coastal scrub (CoScr)/mesic, sometimes serpentinite	0 - 150 meters	List 1B.2
<u>Cirsium occidentale</u> var. <u>compactum</u>	Asteraceae	perennial herb	Apr-Jun		•Chaparral (Chprl) •Coastal dunes (CoDns) •Coastal prairie (CoPrr) •Coastal scrub (CoScr)	5 - 150 meters	List 1B.2
<u>Clarkia franciscana</u>	Onagraceae	annual herb	May-Jul		•Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs) (serpentinite)	25 - 335 meters	List 1B.1
<u>Collinsia corymbosa</u>	Scrophulariaceae	annual herb	Apr-Jun		•Coastal dunes (CoDns)	0 - 20 meters	List 1B.2
<u>Collinsia multicolor</u>	Scrophulariaceae	annual herb	Mar-May		•Closed-cone coniferous forest (CCFr) •Coastal scrub (CoScr)/sometimes serpentinite	30 - 250 meters	List 1B.2
<u>Cordylanthus maritimus</u> ssp. <u>palustris</u>	Scrophulariaceae	annual herb hemiparasitic	Jun-Oct		•Marshes and swamps (MshSw) (coastal salt)	0 - 10 meters	List 1B.2
<u>Dirca occidentalis</u>	Thymelaeaceae	perennial deciduous shrub	Jan-Mar (Apr) Months in parentheses are uncommon.		•Broadleafed upland forest (BUFr) •Closed-cone coniferous forest (CCFr) •Chaparral (Chprl) •Cismontane woodland (CmWld) •North Coast coniferous forest (NCFr) •Riparian forest (RpFr) •Riparian woodland (RpWld)/mesic	50 - 395 meters	List 1B.2
<u>Equisetum palustre</u>	Equisetaceae	perennial rhizomatous herb	unk		•Marshes and swamps (MshSw)	45 - 1000 meters	List 3

<u>Eriogonum luteolum</u> var. <u>caninum</u>	Polygonaceae	annual herb	May-Sep	<ul style="list-style-type: none"> •Chaparral (Chprl) •Cismontane woodland (CmWld) •Coastal prairie (CoPrr) •Valley and foothill grassland (VFGrS)/serpentine, sandy to gravelly 	0 - 700 meters	List 1B.2
<u>Fritillaria liliacea</u>	Liliaceae	perennial bulbiferous herb	Feb-Apr	<ul style="list-style-type: none"> •Cismontane woodland (CmWld) •Coastal prairie (CoPrr) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrS)/often serpentine 	3 - 410 meters	List 1B.2
<u>Gilia capitata</u> ssp. <u>chamissonis</u>	Polemoniaceae	annual herb	Apr-Jul	<ul style="list-style-type: none"> •Coastal dunes (CoDns) •Coastal scrub (CoScr) 	2 - 200 meters	List 1B.1
<u>Gilia millefoliata</u>	Polemoniaceae	annual herb	Apr-Jul	<ul style="list-style-type: none"> •Coastal dunes (CoDns) 	2 - 30 meters	List 1B.2
<u>Grindelia hirsutula</u> var. <u>maritima</u>	Asteraceae	perennial herb	Jun-Sep	<ul style="list-style-type: none"> •Coastal bluff scrub (CBScr) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrS)/sandy or serpentine 	15 - 400 meters	List 1B.2
<u>Helianthella castanea</u>	Asteraceae	perennial herb	Mar-Jun	<ul style="list-style-type: none"> •Broadleafed upland forest (BUFrS) •Chaparral (Chprl) •Cismontane woodland (CmWld) •Coastal scrub (CoScr) •Riparian woodland (RpWld) •Valley and foothill grassland (VFGrS) 	60 - 1300 meters	List 1B.2
<u>Hemizonia congesta</u> ssp. <u>congesta</u>	Asteraceae	annual herb	Apr-Nov	<ul style="list-style-type: none"> •Valley and foothill grassland (VFGrS)/sometimes roadsides 	20 - 560 meters	List 1B.2
<u>Hesperervax sparsiflora</u> var. <u>brevifolia</u>	Asteraceae	annual herb	Mar-Jun	<ul style="list-style-type: none"> •Coastal bluff scrub (CBScr)(sandy) •Coastal dunes (CoDns) 	0 - 215 meters	List 1B.2
<u>Hesperolinon congestum</u>	Linaceae	annual herb	Apr-Jul	<ul style="list-style-type: none"> •Chaparral (Chprl) •Valley and foothill grassland (VFGrS)/serpentine 	5 - 370 meters	List 1B.1
<u>Hoita strobilina</u>	Fabaceae	perennial herb	May-Jul (Aug-Oct) Months in parentheses are uncommon.	<ul style="list-style-type: none"> •Chaparral (Chprl) •Cismontane woodland (CmWld) •Riparian woodland (RpWld)/usually serpentine, mesic 	30 - 860 meters	List 1B.1
				<ul style="list-style-type: none"> •Coastal prairie (CoPrr) 		

<u>Holocarpha macradenia</u>	Asteraceae	annual herb	Jun-Oct	•Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/often clay, sandy	10 - 220 meters	List 1B.1
<u>Horkelia cuneata ssp. sericea</u>	Rosaceae	perennial herb	Apr-Sep	•Closed-cone coniferous forest (CCFr) •Chaparral (Chprl) (maritime) •Coastal dunes (CoDns) •Coastal scrub (CoScr)/sandy or gravelly, openings	10 - 200 meters	List 1B.1
<u>Lasthenia conjugens</u>	Asteraceae	annual herb	Mar-Jun	•Cismontane woodland (CmWld) •Playas (Plyas) (alkaline) •Valley and foothill grassland (VFGrs) •Vernal pools (VnPls)/mesic	0 - 470 meters	List 1B.1
<u>Lathyrus jepsonii</u> var. <u>jepsonii</u>	Fabaceae	perennial herb	May-Jul (Sep) Months in parentheses are uncommon.	•Marshes and swamps (MshSw) (freshwater and brackish)	0 - 4 meters	List 1B.2
<u>Layia carnosa</u>	Asteraceae	annual herb	Mar-Jul	•Coastal dunes (CoDns) •Coastal scrub (CoScr)(sandy)	0 - 60 meters	List 1B.1
<u>Leptosiphon rosaceus</u>	Polemoniaceae	annual herb	Apr-Jul	•Coastal bluff scrub (CBSr)	0 - 100 meters	List 1B.1
<u>Lessingia germanorum</u>	Asteraceae	annual herb	(Jun)Jul-Nov Months in parentheses are uncommon.	•Coastal scrub (CoScr)(remnant dunes)	25 - 110 meters	List 1B.1
<u>Lessingia hololeuca</u>	Asteraceae	annual herb	Jun-Oct	•Broadleafed upland forest (BUFr) •Coastal scrub (CoScr) •Lower montane coniferous forest (LCFr) •Valley and foothill grassland (VFGrs)/clay, serpentinite	15 - 305 meters	List 3
<u>Malacothamnus arcuatus</u>	Malvaceae	perennial evergreen shrub	Apr-Sep	•Chaparral (Chprl) •Cismontane woodland (CmWld)	15 - 355 meters	List 1B.2
<u>Meconella oregana</u>	Papaveraceae	annual herb	Mar-Apr	•Coastal prairie (CoPrr) •Coastal scrub (CoScr)	250 - 620 meters	List 1B.1
<u>Micropus amphibolus</u>	Asteraceae	annual herb	Mar-May	•Broadleafed upland forest (BUFr) •Chaparral (Chprl) •Cismontane woodland (CmWld) •Valley and foothill	45 - 825 meters	List 3.2

grassland (VFGrS)/rocky

APPENDIX E

Transportation and Circulation Supplemental Information

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Appendix E-1

Roadway Segment LOS Thresholds



FEHR & PEERS
TRANSPORTATION CONSULTANTS

FDOT 2009 Thresholds for Peak Hour Directional Volumes in Urbanized Areas, Sep. 2009

Class	Lanes	Threshold				
		LOS A	LOS B	LOS C	LOS D	LOS E
Freeway	2		2,200	3,020	3,720	4,020
Freeway	3		3,300	4,580	5,580	6,200
Freeway	4		4,400	6,080	7,420	8,400
Freeway	5		5,500	7,680	9,320	10,580
Freeway	6		7,560	10,220	12,080	12,780
Class1	1		510	820	880	
Class1	2		1,560	1,890	1,960	
Class1	3		2,400	2,860	2,940	
Class1	4		3,240	3,830	3,940	
Class2	1			560	810	860
Class2	2			1,330	1,770	1,870
Class2	3			2,080	2,680	2,830
Class2	4			2,830	3,590	3,780
Class3	1			270	630	790
Class3	2			670	1,500	1,700
Class3	3			1,050	2,330	2,570
Class3	4			1,440	3,170	3,450
Class4	1			270	630	790
Class4	2			670	1,500	1,700
Class4	3			1,050	2,330	2,570
Class4	4			1,440	3,170	3,450

Appendix E-2

Roadway Segment LOS Calculations



FEHR & PEERS
TRANSPORTATION CONSULTANTS

	Roadway Segment	Direction	Facility	# of	Capacity	Existing - AM			Existing - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
1	5th Street west of Broadway (one way eastbound)	EB	Class4	3	2,570	870	0.34	C	1,270	0.49	D
2	6th Street west of Broadway (one way westbound)	WB	Class4	2	1,700	250	0.15	C	190	0.11	C
3	7th Street east of Mandela Parkway	EB	Class2	2	1,870	280	0.15	C	530	0.28	C
		WB	Class2	2	1,870	650	0.35	C	500	0.27	C
4	7th Street west of Clay Street (one way eastbound)	EB	Class4	4	3,450	680	0.20	C	930	0.27	C
5	8th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	430	0.17	C	450	0.18	C
6	7th Street east of Fallon Street	EB	Class3	2	1,700	830	0.49	D	1,400	0.82	D
		WB	Class3	2	1,700	800	0.47	D	510	0.30	C
7	11th Street west of Broadway (one way eastbound)	EB	Class4	4	3,450	650	0.19	C	820	0.24	C
8	11th Street west of Oak Street (one way eastbound)	EB	Class4	3	2,570	360	0.14	C	1,120	0.44	D
9	12th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	620	0.24	C	770	0.30	C
10	12th Street west of Oak Street (one way westbound)	WB	Class4	4	3,450	1,670	0.48	D	1,070	0.31	C
11	East 12th Street east of 5th Avenue	EB	Class2	2	1,870	390	0.21	C	550	0.29	C
		WB	Class2	2	1,870	580	0.31	C	410	0.22	C
12	14th Street west of Broadway	EB	Class4	2	1,700	280	0.16	C	350	0.21	C
		WB	Class4	2	1,700	340	0.20	C	420	0.25	C
13	14th Street west of Oak Street	EB	Class4	2	1,700	350	0.21	C	870	0.51	D
		WB	Class4	2	1,700	820	0.48	D	560	0.33	C
14	West Grand Avenue west of Martin Luther King Way	EB	Class2	3	2,830	800	0.28	C	1,070	0.38	C
		WB	Class2	3	2,830	730	0.26	C	760	0.27	C
15	Grand Avenue between Harrison Street and I-580	EB	Class3	2	1,700	490	0.29	C	1,540	0.906	E
		WB	Class3	2	1,700	1,220	0.72	D	800	0.47	D
16	27th Street west of Harrison Street	EB	Class2	3	2,830	330	0.12	C	570	0.20	C
		WB	Class2	3	2,830	550	0.19	C	510	0.18	C
17	Embarcadero east of Oak Street	EB	Class2	2	1,870	150	0.08	C	470	0.25	C
		WB	Class2	1	860	300	0.35	C	280	0.33	C
18	Embarcadero east of 5th Avenue	EB	Class2	1	860	390	0.45	C	850	0.99	E
		WB	Class2	1	860	470	0.55	C	560	0.65	C
19	San Pablo Avenue north of West Grand Avenue	NB	Class2	2	1,870	390	0.21	C	620	0.33	C
		SB	Class2	2	1,870	380	0.20	C	390	0.21	C
20	Broadway north of Grand Avenue	NB	Class3	2	1,700	510	0.30	C	710	0.42	D
		SB	Class3	2	1,700	480	0.28	C	570	0.34	C
21	Broadway north of 8th Street	NB	Class4	2	1,700	640	0.38	C	550	0.32	C
		SB	Class4	2	1,700	440	0.26	C	740	0.44	D
22	Harrison Street north of Grand Avenue	NB	Class2	3	2,830	790	0.28	C	1,220	0.43	C
		SB	Class2	3	2,830	670	0.24	C	560	0.20	C
23	Jackson Street north of 7th Street	NB	Class4	1	790	300	0.38	D	210	0.27	C
		SB	Class4	1	790	350	0.44	D	380	0.48	D
24	Madison Street north of 8th Street (one way southbound)	SB	Class4	3	2,570	580	0.23	C	920	0.36	C

	Roadway Segment	Direction	Facility	# of	Capacity	Existing - AM			Existing - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
25	Oak Street north of 8th Street (one way northbound)	NB	Class4	4	3,450	960	0.28	C	720	0.21	C
26	5th Avenue south of East 12th Street	NB	Class2	1	860	210	0.24	C	340	0.40	C
		SB	Class2	1	860	290	0.34	C	230	0.27	C
27	Franklin St south of 20th Street	NB	Class4	3	2,570	260	0.10	C	550	0.21	C
28	Webster St south of 20th Street	SB	Class4	3	2,570	530	0.21	C	650	0.25	C
29	SR-260 (Posey and Webster Tubes) at Oakland City Limit	NB	Freeway	2	4,020	2,300	0.57	C	1,910	0.48	B
		SB	Freeway	2	4,020	1,640	0.41	B	2,880	0.72	C
30	I-880 at 16th Avenue overcrossing	NB	Freeway	4	8,400	6,300	0.75	D	7,260	0.86	D
		SB	Freeway	4	8,400	6,530	0.78	D	7,250	0.86	D
31	I-880 between Market Street and I-980	NB	Freeway	4	8,400	3,720	0.44	B	3,430	0.41	B
		SB	Freeway	4	8,400	3,070	0.37	B	3,170	0.38	B
32	I-980 at 14th Street overcrossing	EB	Freeway	2	4,020	2,310	0.57	C	3,200	0.80	D
		WB	Freeway	3	6,200	3,260	0.53	B	2,100	0.34	B

	Roadway Segment	Direction	Facility	# of	Capacity	Existing + Project - AM			Existing + Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
1	5th Street west of Broadway (one way eastbound)	EB	Class4	3	2,570	890	0.35	C	1,320	0.51	D
2	6th Street west of Broadway (one way westbound)	WB	Class4	2	1,700	270	0.16	C	200	0.12	C
3	7th Street east of Mandela Parkway	EB	Class2	2	1,870	310	0.17	C	540	0.29	C
		WB	Class2	2	1,870	660	0.35	C	520	0.28	C
4	7th Street west of Clay Street (one way eastbound)	EB	Class4	4	3,450	730	0.21	C	940	0.27	C
5	8th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	430	0.17	C	540	0.21	C
6	7th Street east of Fallon Street	EB	Class3	2	1,700	830	0.49	D	1,460	0.86	D
		WB	Class3	2	1,700	810	0.48	D	560	0.33	C
7	11th Street west of Broadway (one way eastbound)	EB	Class4	4	3,450	660	0.19	C	830	0.24	C
8	11th Street west of Oak Street (one way eastbound)	EB	Class4	3	2,570	410	0.16	C	1,210	0.47	D
9	12th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	650	0.25	C	810	0.32	C
10	12th Street west of Oak Street (one way westbound)	WB	Class4	4	3,450	1,690	0.49	D	1,140	0.33	C
11	East 12th Street east of 5th Avenue	EB	Class2	2	1,870	430	0.23	C	560	0.30	C
		WB	Class2	2	1,870	740	0.40	C	420	0.22	C
12	14th Street west of Broadway	EB	Class4	2	1,700	290	0.17	C	360	0.21	C
		WB	Class4	2	1,700	360	0.21	C	440	0.26	C
13	14th Street west of Oak Street	EB	Class4	2	1,700	400	0.24	C	910	0.54	D
		WB	Class4	2	1,700	850	0.50	D	600	0.35	C
14	West Grand Avenue west of Martin Luther King Way	EB	Class2	3	2,830	880	0.31	C	1,120	0.40	C
		WB	Class2	3	2,830	740	0.26	C	800	0.28	C
15	Grand Avenue between Harrison Street and I-580	EB	Class3	2	1,700	520	0.31	C	1,610	0.95	E
		WB	Class3	2	1,700	1,270	0.75	D	970	0.57	D
16	27th Street west of Harrison Street	EB	Class2	3	2,830	330	0.12	C	610	0.22	C
		WB	Class2	3	2,830	640	0.23	C	530	0.19	C
17	Embarcadero east of Oak Street	EB	Class2	2	1,870	200	0.11	C	610	0.33	C
		WB	Class2	1	860	400	0.47	C	390	0.45	C
18	Embarcadero east of 5th Avenue	EB	Class2	1	860	420	0.49	C	960	1.12	F
		WB	Class2	1	860	560	0.65	C	650	0.76	D
19	San Pablo Avenue north of West Grand Avenue	NB	Class2	2	1,870	410	0.22	C	710	0.38	C
		SB	Class2	2	1,870	390	0.21	C	410	0.22	C
20	Broadway north of Grand Avenue	NB	Class3	2	1,700	580	0.34	C	860	0.51	D
		SB	Class3	2	1,700	650	0.38	C	670	0.39	C
21	Broadway north of 8th Street	NB	Class4	2	1,700	700	0.41	D	630	0.37	C
		SB	Class4	2	1,700	480	0.28	C	820	0.48	D
22	Harrison Street north of Grand Avenue	NB	Class2	3	2,830	820	0.29	C	1,240	0.44	C
		SB	Class2	3	2,830	710	0.25	C	600	0.21	C
23	Jackson Street north of 7th Street	NB	Class4	1	790	370	0.47	D	300	0.38	D
		SB	Class4	1	790	370	0.47	D	410	0.52	D
24	Madison Street north of 8th Street (one way southbound)	SB	Class4	3	2,570	720	0.28	C	1,130	0.44	D

	Roadway Segment	Direction	Facility	# of	Capacity	Existing + Project - AM			Existing + Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
25	Oak Street north of 8th Street (one way northbound)	NB	Class4	4	3,450	960	0.28	C	830	0.24	C
26	5th Avenue south of East 12th Street	NB	Class2	1	860	250	0.29	C	400	0.47	C
		SB	Class2	1	860	320	0.37	C	310	0.36	C
27	Franklin St south of 20th Street	NB	Class4	3	2,570	310	0.12	C	560	0.22	C
28	Webster St south of 20th Street	SB	Class4	3	2,570	560	0.22	C	750	0.29	C
29	SR-260 (Posey and Webster Tubes) at Oakland City Limit	NB	Freeway	2	4,020	2,340	0.58	C	1,990	0.50	B
		SB	Freeway	2	4,020	1,650	0.41	B	2,960	0.74	C
30	I-880 at 16th Avenue overcrossing	NB	Freeway	4	8,400	6,400	0.76	D	7,330	0.87	D
		SB	Freeway	4	8,400	6,610	0.79	D	7,390	0.88	D
31	I-880 between Market Street and I-980	NB	Freeway	4	8,400	3,800	0.45	B	3,530	0.42	B
		SB	Freeway	4	8,400	3,080	0.37	B	3,180	0.38	B
32	I-980 at 14th Street overcrossing	EB	Freeway	2	4,020	2,370	0.59	C	3,300	0.82	D
		WB	Freeway	3	6,200	3,340	0.54	C	2,160	0.35	B

	Roadway Segment	Direction	Facility	# of	Capacity	2015 No Project - AM			2015 No Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
1	5th Street west of Broadway (one way eastbound)	EB	Class4	3	2,570	1,000	0.39	C	1,310	0.51	D
2	6th Street west of Broadway (one way westbound)	WB	Class4	2	1,700	300	0.18	C	280	0.16	C
3	7th Street east of Mandela Parkway	EB	Class2	2	1,870	380	0.20	C	790	0.42	C
		WB	Class2	2	1,870	830	0.44	C	620	0.33	C
4	7th Street west of Clay Street (one way eastbound)	EB	Class4	4	3,450	830	0.24	C	1,230	0.36	C
5	8th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	710	0.28	C	610	0.24	C
6	7th Street east of Fallon Street	EB	Class3	2	1,700	890	0.52	D	1,680	0.99	E
		WB	Class3	2	1,700	1,030	0.61	D	580	0.34	C
7	11th Street west of Broadway (one way eastbound)	EB	Class4	4	3,450	710	0.21	C	940	0.27	C
8	11th Street west of Oak Street (one way eastbound)	EB	Class4	3	2,570	440	0.17	C	1,290	0.50	D
9	12th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	770	0.30	C	900	0.35	C
10	12th Street west of Oak Street (one way westbound)	WB	Class4	4	3,450	1,680	0.49	D	1,260	0.37	C
11	East 12th Street east of 5th Avenue	EB	Class2	2	1,870	470	0.25	C	680	0.36	C
		WB	Class2	2	1,870	700	0.37	C	520	0.28	C
12	14th Street west of Broadway	EB	Class4	2	1,700	310	0.18	C	420	0.25	C
		WB	Class4	2	1,700	410	0.24	C	450	0.26	C
13	14th Street west of Oak Street	EB	Class4	2	1,700	470	0.28	C	980	0.58	D
		WB	Class4	2	1,700	940	0.55	D	590	0.35	C
14	West Grand Avenue west of Martin Luther King Way	EB	Class2	3	2,830	910	0.32	C	1,360	0.48	C
		WB	Class2	3	2,830	1,030	0.36	C	960	0.34	C
15	Grand Avenue between Harrison Street and I-580	EB	Class3	2	1,700	570	0.34	C	1,690	0.99	E
		WB	Class3	2	1,700	1,430	0.84	D	890	0.52	D
16	27th Street west of Harrison Street	EB	Class2	2	1,870	400	0.21	C	800	0.43	C
		WB	Class2	2	1,870	700	0.37	C	630	0.34	C
17	Embarcadero east of Oak Street	EB	Class2	2	1,870	240	0.13	C	570	0.30	C
		WB	Class2	1	860	410	0.48	C	390	0.45	C
18	Embarcadero east of 5th Avenue	EB	Class2	1	860	460	0.53	C	870	1.01	F
		WB	Class2	1	860	590	0.69	D	710	0.83	D
19	San Pablo Avenue north of West Grand Avenue	NB	Class2	2	1,870	540	0.29	C	760	0.41	C
		SB	Class2	2	1,870	540	0.29	C	510	0.27	C
20	Broadway north of Grand Avenue	NB	Class3	2	1,700	610	0.36	C	850	0.50	D
		SB	Class3	2	1,700	640	0.38	C	640	0.38	C
21	Broadway north of 8th Street	NB	Class4	2	1,700	720	0.42	D	580	0.34	C
		SB	Class4	2	1,700	470	0.28	C	780	0.46	D
22	Harrison Street north of Grand Avenue	NB	Class2	3	2,830	870	0.31	C	1,410	0.50	C
		SB	Class2	3	2,830	790	0.28	C	620	0.22	C
23	Jackson Street north of 7th Street	NB	Class4	1	790	380	0.48	D	230	0.29	C
		SB	Class4	1	790	350	0.44	D	390	0.49	D
24	Madison Street north of 8th Street (one way southbound)	SB	Class4	3	2,570	700	0.27	C	980	0.38	C
25	Oak Street north of 8th Street (one way northbound)	NB	Class4	4	3,450	1,090	0.32	C	810	0.23	C
26	5th Avenue south of East 12th Street	NB	Class2	1	860	270	0.31	C	440	0.51	C

	Roadway Segment	Direction	Facility	# of	Capacity	2015 No Project - AM			2015 No Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
		SB	Class2	1	860	360	0.42	C	290	0.34	C
27	Franklin St south of 20th Street	NB	Class4	2	1,700	290	0.17	C	720	0.42	D
28	Webster St south of 20th Street	SB	Class4	2	1,700	680	0.40	D	700	0.41	D
29	SR-260 (Posey and Webster Tubes) at Oakland City Limit	NB	Freeway	2	4,020	2,470	0.61	C	2,070	0.51	B
		SB	Freeway	2	4,020	1,920	0.48	B	3,000	0.75	C
30	I-880 at 16th Avenue overcrossing	NB	Freeway	4	8,400	6,630	0.79	D	7,520	0.90	E
		SB	Freeway	4	8,400	6,890	0.82	D	7,500	0.89	E
31	I-880 between Market Street and I-980	NB	Freeway	4	8,400	3,960	0.47	B	3,620	0.43	B
		SB	Freeway	4	8,400	3,210	0.38	B	3,400	0.40	B
32	I-980 at 14th Street overcrossing	EB	Freeway	2	4,020	2,360	0.59	C	3,250	0.81	D
		WB	Freeway	3	6,200	3,290	0.53	B	2,180	0.35	B

	Roadway Segment	Direction	Facility	# of	Capacity	2015 + Project - AM			2015 + Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
1	5th Street west of Broadway (one way eastbound)	EB	Class4	3	2,570	1,030	0.40	C	1,360	0.53	D
2	6th Street west of Broadway (one way westbound)	WB	Class4	2	1,700	310	0.18	C	290	0.17	C
3	7th Street east of Mandela Parkway	EB	Class2	2	1,870	420	0.22	C	800	0.43	C
		WB	Class2	2	1,870	850	0.45	C	640	0.34	C
4	7th Street west of Clay Street (one way eastbound)	EB	Class4	4	3,450	870	0.25	C	1,230	0.36	C
5	8th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	710	0.28	C	700	0.27	C
6	7th Street east of Fallon Street	EB	Class3	2	1,700	900	0.53	D	1,740	1.02	F
		WB	Class3	2	1,700	1,050	0.62	D	630	0.37	C
7	11th Street west of Broadway (one way eastbound)	EB	Class4	4	3,450	710	0.21	C	950	0.28	C
8	11th Street west of Oak Street (one way eastbound)	EB	Class4	3	2,570	490	0.19	C	1,380	0.54	D
9	12th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	810	0.32	C	940	0.37	C
10	12th Street west of Oak Street (one way westbound)	WB	Class4	4	3,450	1,700	0.49	D	1,330	0.39	C
11	East 12th Street east of 5th Avenue	EB	Class2	2	1,870	510	0.27	C	680	0.36	C
		WB	Class2	2	1,870	870	0.47	C	530	0.28	C
12	14th Street west of Broadway	EB	Class4	2	1,700	320	0.19	C	430	0.25	C
		WB	Class4	2	1,700	420	0.25	C	470	0.28	C
13	14th Street west of Oak Street	EB	Class4	2	1,700	520	0.31	C	1,020	0.60	D
		WB	Class4	2	1,700	980	0.58	D	630	0.37	C
14	West Grand Avenue west of Martin Luther King Way	EB	Class2	3	2,830	980	0.35	C	1,410	0.50	C
		WB	Class2	3	2,830	1,040	0.37	C	1,010	0.36	C
15	Grand Avenue between Harrison Street and I-580	EB	Class3	2	1,700	600	0.35	C	1,770	1.04	F
		WB	Class3	2	1,700	1,480	0.87	D	1,060	0.62	D
16	27th Street west of Harrison Street	EB	Class2	2	1,870	400	0.21	C	840	0.45	C
		WB	Class2	2	1,870	780	0.42	C	640	0.34	C
17	Embarcadero east of Oak Street	EB	Class2	2	1,870	280	0.15	C	710	0.38	C
		WB	Class2	1	860	510	0.59	C	510	0.59	C
18	Embarcadero east of 5th Avenue	EB	Class2	1	860	500	0.58	C	970	1.13	F
		WB	Class2	1	860	680	0.79	D	800	0.93	D
19	San Pablo Avenue north of West Grand Avenue	NB	Class2	2	1,870	560	0.30	C	860	0.46	C
		SB	Class2	2	1,870	550	0.29	C	530	0.28	C
20	Broadway north of Grand Avenue	NB	Class3	2	1,700	690	0.41	D	1,000	0.59	D
		SB	Class3	2	1,700	810	0.48	D	740	0.44	D
21	Broadway north of 8th Street	NB	Class4	2	1,700	780	0.46	D	650	0.38	C
		SB	Class4	2	1,700	510	0.30	C	870	0.51	D
22	Harrison Street north of Grand Avenue	NB	Class2	3	2,830	910	0.32	C	1,420	0.50	C
		SB	Class2	3	2,830	820	0.29	C	660	0.23	C
23	Jackson Street north of 7th Street	NB	Class4	1	790	450	0.57	D	320	0.41	D
		SB	Class4	1	790	380	0.48	D	420	0.53	D
24	Madison Street north of 8th Street (one way southbound)	SB	Class4	3	2,570	840	0.33	C	1,200	0.47	D

Roadway Segment		Direction	Facility	# of	Capacity	2015 + Project - AM			2015 + Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
25	Oak Street north of 8th Street (one way northbound)	NB	Class4	4	3,450	1,100	0.32	C	910	0.26	C
26	5th Avenue south of East 12th Street	NB	Class2	1	860	310	0.36	C	500	0.58	C
		SB	Class2	1	860	400	0.47	C	370	0.43	C
27	Franklin St south of 20th Street	NB	Class4	2	1,700	340	0.20	C	720	0.42	D
28	Webster St south of 20th Street	SB	Class4	2	1,700	710	0.42	D	800	0.47	D
29	SR-260 (Posey and Webster Tubes) at Oakland City Limit	NB	Freeway	2	4,020	2,510	0.62	C	2,150	0.53	B
		SB	Freeway	2	4,020	1,930	0.48	B	3,070	0.76	D
30	I-880 at 16th Avenue overcrossing	NB	Freeway	4	8,400	6,720	0.80	D	7,590	0.90	E
		SB	Freeway	4	8,400	6,970	0.83	D	7,630	0.91	E
31	I-880 between Market Street and I-980	NB	Freeway	4	8,400	4,030	0.48	B	3,710	0.44	B
		SB	Freeway	4	8,400	3,220	0.38	B	3,410	0.41	B
32	I-980 at 14th Street overcrossing	EB	Freeway	2	4,020	2,420	0.60	C	3,350	0.83	D
		WB	Freeway	3	6,200	3,370	0.54	C	2,230	0.36	B

	Roadway Segment	Direction	Facility	# of	Capacity	2035 No Project - AM			2035 No Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
1	5th Street west of Broadway (one way eastbound)	EB	Class4	3	2,570	1,530	0.60	D	1,460	0.57	D
2	6th Street west of Broadway (one way westbound)	WB	Class4	2	1,700	480	0.28	C	660	0.39	C
3	7th Street east of Mandela Parkway	EB	Class2	2	1,870	800	0.43	C	1,820	0.97	E
		WB	Class2	2	1,870	1,580	0.84	D	1,100	0.59	C
4	7th Street west of Clay Street (one way eastbound)	EB	Class4	4	3,450	1,410	0.41	C	2,410	0.70	D
5	8th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	1,800	0.70	D	1,250	0.49	D
6	7th Street east of Fallon Street	EB	Class3	2	1,700	1,140	0.67	D	2,810	1.65	F
		WB	Class3	2	1,700	1,950	1.15	F	870	0.51	D
7	11th Street west of Broadway (one way eastbound)	EB	Class4	4	3,450	920	0.27	C	1,430	0.41	C
8	11th Street west of Oak Street (one way eastbound)	EB	Class4	3	2,570	760	0.30	C	1,980	0.77	D
9	12th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	1,380	0.54	D	1,440	0.56	D
10	12th Street west of Oak Street (one way westbound)	WB	Class4	4	3,450	1,700	0.49	D	2,020	0.59	D
11	East 12th Street east of 5th Avenue	EB	Class2	2	1,870	770	0.41	C	1,180	0.63	C
		WB	Class2	2	1,870	1,190	0.64	C	960	0.51	C
12	14th Street west of Broadway	EB	Class4	2	1,700	430	0.25	C	700	0.41	D
		WB	Class4	2	1,700	660	0.39	C	580	0.34	C
13	14th Street west of Oak Street	EB	Class4	2	1,700	930	0.55	D	1,420	0.84	D
		WB	Class4	2	1,700	1,430	0.84	D	710	0.42	D
14	West Grand Avenue west of Martin Luther King Way	EB	Class2	3	2,830	1,340	0.47	C	2,530	0.89	D
		WB	Class2	3	2,830	2,230	0.79	D	1,790	0.63	C
15	Grand Avenue between Harrison Street and I-580	EB	Class3	2	1,700	900	0.53	D	2,320	1.365	F
		WB	Class3	2	1,700	2,270	1.34	F	1,260	0.74	D
16	27th Street west of Harrison Street	EB	Class2	2	1,870	690	0.37	C	1,730	0.93	D
		WB	Class2	2	1,870	1,260	0.67	C	1,100	0.59	C
17	Embarcadero east of Oak Street	EB	Class2	2	1,870	580	0.31	C	970	0.52	C
		WB	Class2	1	860	820	0.95	E	850	0.99	E
18	Embarcadero east of 5th Avenue	EB	Class2	1	860	750	0.87	D	910	1.06	F
		WB	Class2	1	860	1,050	1.22	F	1,340	1.56	F
19	San Pablo Avenue north of West Grand Avenue	NB	Class2	2	1,870	1,140	0.61	C	1,340	0.72	D
		SB	Class2	2	1,870	1,180	0.63	C	990	0.53	C
20	Broadway north of Grand Avenue	NB	Class3	2	1,700	1,020	0.60	D	1,420	0.84	D
		SB	Class3	2	1,700	1,280	0.75	D	910	0.54	D
21	Broadway north of 8th Street	NB	Class4	2	1,700	1,050	0.62	D	680	0.40	D
		SB	Class4	2	1,700	610	0.36	C	960	0.56	D
22	Harrison Street north of Grand Avenue	NB	Class2	3	2,830	1,210	0.43	C	2,140	0.76	D
		SB	Class2	3	2,830	1,250	0.44	C	840	0.30	C
23	Jackson Street north of 7th Street	NB	Class4	1	790	710	0.90	E	320	0.41	D
		SB	Class4	1	790	370	0.47	D	420	0.53	D
24	Madison Street north of 8th Street (one way southbound)	SB	Class4	3	2,570	1,180	0.46	D	1,240	0.48	D
25	Oak Street north of 8th Street (one way northbound)	NB	Class4	4	3,450	1,620	0.47	D	1,140	0.33	C
26	5th Avenue south of East 12th Street	NB	Class2	1	860	510	0.59	C	850	0.99	E
		SB	Class2	1	860	660	0.77	D	530	0.62	C

	Roadway Segment	Direction	Facility Type	# of Lanes	Capacity	2035 No Project - AM			2035 No Project - PM		
						Volume	V/C	LOS	Volume	V/C	LOS
27	Franklin St south of 20th Street	NB	Class4	2	1,700	410	0.24	C	1,380	0.81	D
28	Webster St south of 20th Street	SB	Class4	2	1,700	1,300	0.76	D	890	0.52	D
29	SR-260 (Posey and Webster Tubes) at Oakland City Limit	NB	Freeway	2	4,020	3,130	0.78	D	2,710	0.67	C
		SB	Freeway	2	4,020	3,040	0.76	D	3,450	0.86	D
30	I-880 at 16th Avenue overcrossing	NB	Freeway	4	8,400	7,930	0.94	E	8,570	1.02	F
		SB	Freeway	4	8,400	8,320	0.99	E	8,480	1.01	F
31	I-880 between Market Street and I-980	NB	Freeway	4	8,400	4,890	0.58	C	4,370	0.52	B
		SB	Freeway	4	8,400	3,770	0.45	B	4,300	0.51	B
32	I-980 at 14th Street overcrossing	EB	Freeway	2	4,020	2,570	0.64	C	3,440	0.86	D
		WB	Freeway	3	6,200	3,440	0.55	C	2,460	0.40	B

	Roadway Segment	Direction	Facility	# of	Capacity	2035 + Project - AM			2035 + Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
1	5th Street west of Broadway (one way eastbound)	EB	Class4	3	2,570	1,560	0.61	D	1,520	0.59	D
2	6th Street west of Broadway (one way westbound)	WB	Class4	2	1,700	500	0.29	C	660	0.39	C
3	7th Street east of Mandela Parkway	EB	Class2	2	1,870	840	0.45	C	1,830	0.98	E
		WB	Class2	2	1,870	1,600	0.86	D	1,120	0.60	C
4	7th Street west of Clay Street (one way eastbound)	EB	Class4	4	3,450	1,450	0.42	D	2,420	0.70	D
5	8th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	1,800	0.70	D	1,330	0.52	D
6	7th Street east of Fallon Street	EB	Class3	2	1,700	1,150	0.68	D	2,870	1.69	F
		WB	Class3	2	1,700	1,970	1.16	F	920	0.54	D
7	11th Street west of Broadway (one way eastbound)	EB	Class4	4	3,450	930	0.27	C	1,440	0.42	C
8	11th Street west of Oak Street (one way eastbound)	EB	Class4	3	2,570	800	0.31	C	2,070	0.81	D
9	12th Street west of Broadway (one way westbound)	WB	Class4	3	2,570	1,420	0.55	D	1,480	0.58	D
10	12th Street west of Oak Street (one way westbound)	WB	Class4	4	3,450	1,720	0.50	D	2,090	0.61	D
11	East 12th Street east of 5th Avenue	EB	Class2	2	1,870	810	0.43	C	1,190	0.64	C
		WB	Class2	2	1,870	1,360	0.73	D	970	0.52	C
12	14th Street west of Broadway	EB	Class4	2	1,700	440	0.26	C	710	0.42	D
		WB	Class4	2	1,700	680	0.40	D	600	0.35	C
13	14th Street west of Oak Street	EB	Class4	2	1,700	980	0.58	D	1,460	0.86	D
		WB	Class4	2	1,700	1,470	0.86	D	750	0.44	D
14	West Grand Avenue west of Martin Luther King Way	EB	Class2	3	2,830	1,420	0.50	C	2,570	0.91	D
		WB	Class2	3	2,830	2,240	0.79	D	1,830	0.65	C
15	Grand Avenue between Harrison Street and I-580	EB	Class3	2	1,700	930	0.55	D	2,390	1.406	F
		WB	Class3	2	1,700	2,320	1.36	F	1,430	0.84	D
16	27th Street west of Harrison Street	EB	Class2	2	1,870	690	0.37	C	1,760	0.94	D
		WB	Class2	2	1,870	1,340	0.72	D	1,120	0.60	C
17	Embarcadero east of Oak Street	EB	Class2	2	1,870	620	0.33	C	1,110	0.59	C
		WB	Class2	1	860	920	1.07	F	970	1.13	F
18	Embarcadero east of 5th Avenue	EB	Class2	1	860	780	0.91	D	1,010	1.17	F
		WB	Class2	1	860	1,140	1.33	F	1,430	1.66	F
19	San Pablo Avenue north of West Grand Avenue	NB	Class2	2	1,870	1,150	0.61	C	1,430	0.76	D
		SB	Class2	2	1,870	1,190	0.64	C	1,000	0.53	C
20	Broadway north of Grand Avenue	NB	Class3	2	1,700	1,090	0.64	D	1,570	0.92	E
		SB	Class3	2	1,700	1,450	0.85	D	1,010	0.59	D
21	Broadway north of 8th Street	NB	Class4	2	1,700	1,100	0.65	D	760	0.45	D
		SB	Class4	2	1,700	650	0.38	C	1,040	0.61	D
22	Harrison Street north of Grand Avenue	NB	Class2	3	2,830	1,240	0.44	C	2,150	0.76	D
		SB	Class2	3	2,830	1,280	0.45	C	880	0.31	C
23	Jackson Street north of 7th Street	NB	Class4	1	790	780	0.99	E	410	0.52	D
		SB	Class4	1	790	390	0.49	D	440	0.56	D
24	Madison Street north of 8th Street (one way southbound)	SB	Class4	3	2,570	1,320	0.51	D	1,460	0.57	D

	Roadway Segment	Direction	Facility	# of	Capacity	2035 + Project - AM			2035 + Project - PM		
			Type	Lanes		Volume	V/C	LOS	Volume	V/C	LOS
25	Oak Street north of 8th Street (one way northbound)	NB	Class4	4	3,450	1,630	0.47	D	1,240	0.36	C
26	5th Avenue south of East 12th Street	NB	Class2	1	860	540	0.63	C	910	1.06	F
		SB	Class2	1	860	690	0.80	D	610	0.71	D
27	Franklin St south of 20th Street	NB	Class4	2	1,700	460	0.27	C	1,390	0.82	D
28	Webster St south of 20th Street	SB	Class4	2	1,700	1,330	0.78	D	990	0.58	D
29	SR-260 (Posey and Webster Tubes) at Oakland City Limit	NB	Freeway	2	4,020	3,170	0.79	D	2,780	0.69	C
		SB	Freeway	2	4,020	3,060	0.76	D	3,520	0.88	D
30	I-880 at 16th Avenue overcrossing	NB	Freeway	4	8,400	8,020	0.95	E	8,630	1.03	F
		SB	Freeway	4	8,400	8,410	1.00	F	8,620	1.03	F
31	I-880 between Market Street and I-980	NB	Freeway	4	8,400	4,960	0.59	C	4,460	0.53	C
		SB	Freeway	4	8,400	3,780	0.45	B	4,310	0.51	B
32	I-980 at 14th Street overcrossing	EB	Freeway	2	4,020	2,620	0.65	C	3,540	0.88	D
		WB	Freeway	3	6,200	3,510	0.57	C	2,520	0.41	B

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Appendix E-3

ACCMA Model Land Use Assumptions

MEMORANDUM

Date: December 6, 2010

To: Reema Mahamood, ESA

From: Sam Tabibnia

**Subject: Central District Redevelopment Plan EIR –
ACCMA Travel Demand Model Land Use Assumptions**

WC10-2790

This memorandum summarizes Fehr & Peers approach to developing land use assumptions for forecasting future traffic volumes. We have reviewed the land use database in the most recent Alameda County Congestion Management Authority's (ACCMA) Travel Demand Model, which was released in February 2009. The land use database is based on the Association of Bay Area Governments' *Projections 2007* (P'07).

The ACCMA model represents potential trip origins and destinations with transportation analysis zones, or TAZs. Each TAZ represents an area of several blocks, and is assigned land use characteristics, including the number of households and the number of jobs of varied types (agricultural, manufacturing, retail, service, trade and other) in the zone. Since the ACCMA model is a regional forecasting model, the distribution of future developments may not be very accurate at the TAZ level. In addition, the model land uses were last updated in 2007 and may not reflect the latest expected future land uses.

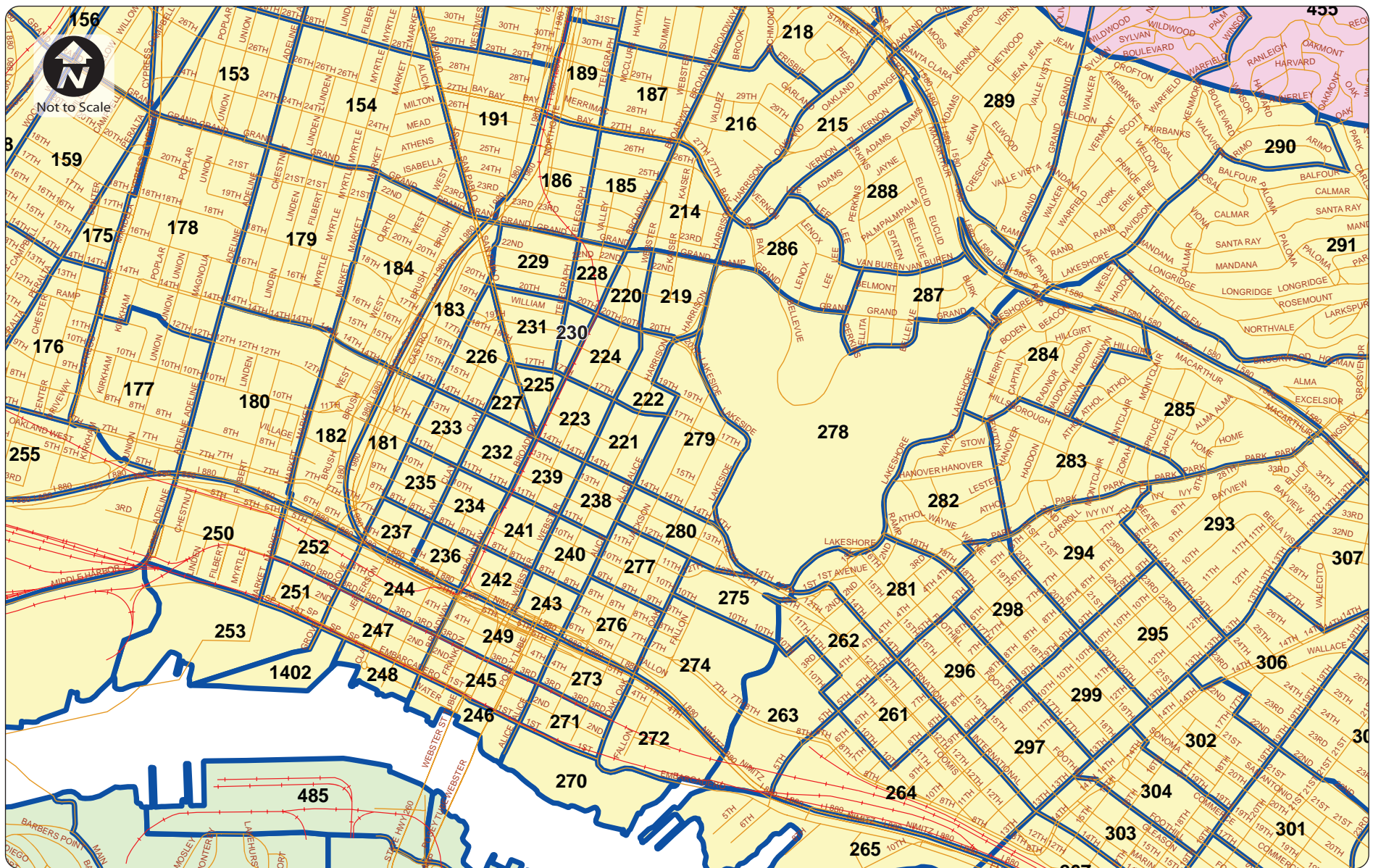
Our review methodology and modifications to the land use database are summarized below.

YEAR 2010 LAND USES

The previous versions of the ACCMA Model used 2005 as the base year. Fehr & Peers modified the ACCMA Model to develop a year 2010 scenario based on the 2005 scenario to better reflect current conditions in the study area and to establish the baseline conditions for future analysis. The 2005 land uses in the ACCMA Model were updated to reflect major development projects that have been completed since 2005. These include about 3,000 multi-family housing units and 150 jobs in the Central District Redevelopment Plan area and vicinity. **Figure 1** shows the TAZ in the study area. **Appendix A** provides the employment and household data associated with each Traffic Analysis Zone (TAZ) in the study area.

YEAR 2035 LAND USES

Fehr & Peers developed model land uses for year 2035 model scenario using the following steps.



Central District Redevelopment Plan EIR

Conversion to Projections 2009

The land use input data for the 2035 scenario in the ACCMA Model was developed in 2008 consistent with ABAG P'07 land use projections. ABAG has published P'09 land use projections since the release of the last ACCMA Model; however, ACCMA has not converted the Model land uses to P'09. For this analysis, the model land uses were updated to reflect ABAG P'09. For TAZs in Oakland and Alameda, the land uses in each TAZ were modified based on their proportional amount as allocated in the P'07 Model so that the citywide totals match ABAG P'09. For areas outside Oakland and Alameda, land uses in each TAZ were adjusted so that the countywide totals match ABAG P'09. **Table 1** summarizes the land use totals for the original (P'07-based) and the modified (P'09 based) models. Consistent with P'09 projections, the modified model assumes more residential growth than the original model, and it assumes less growth in employment than the original model.

TABLE 1 ACCMA TRAVEL DEMAND MODEL 2035 MODEL LAND USE ADJUSTMENTS				
Jurisdiction	Original Model¹		Modified Model	
	Total households	Total Employment	Total households	Total Employment
City of Oakland	207,255	285,995	211,960	281,939
City of Alameda	37,522	50,545	35,621	42,728
County of Alameda	700,090	1,099,550	707,960	1,039,680
Bay Area	3,292,530	5,247,780	3,302,780	5,107,390
1. 2035 land uses in the original Model as developed by ACCMA based on P'07 2. 2035 land uses as modified by Fehr & Peers to reflect P'09 Source: Fehr & Peers, 2010				

Further Refinement

The land use growth assumptions in the project vicinity area were compared to planned, approved and pending projects, including those listed on the City of Oakland's Active Major Development Projects matrix (updated in October 2010), and the developments expected under the Central District Redevelopment Plan.

Since the model land use is based on employment numbers and information regarding specific development projects is available in square footages, the project square footage measurements were converted to employment numbers by assuming one employee per 500 square feet for retail space and one employee per 300 square feet of office (service) space. Only service and retail employments were included in the comparison, as these employment types are the majority of employment growth in the project vicinity area. **Appendix A** presents the further modified number of households and jobs by TAZ in the project vicinity area in 2035.

In addition to the project vicinity area, the model land use database was checked and if necessary modified to assure that the following major projects in other parts of Oakland were also accounted for: Oak to Ninth Mixed Use Project, Wood Street Mixed Use Project, Jack London Square Redevelopment Project, Alta Bates Summit Medical Center, Kaiser Medical Center, Kaiser Center, and MacArthur and Fruitvale Transit Villages.

In general, for TAZs where pending, planned, and proposed projects include more growth than assumed in the TAZs in 2035, we increased the land uses to reflect the pending, planned, and proposed developments. We then reduced the land use growth in the rest of TAZs in the project vicinity area so that the overall 2035 number of households and jobs in project vicinity area remains consistent. **Table 2** summarizes the growth in number of households and jobs in the project vicinity area.

TABLE 2 ACCMA TRAVEL DEMAND MODEL PROJECT VICINITY AREA LAND USE GROWTH ASSUMPTIONS			
Land Use Variable	2010	2035	2010 – 2035 Growth
Households (HH)	19,027	47,811	28,784
Total Employment	83,689	116,823	33,134
Source: ACCMA model as summarized by Fehr & Peers, 2010			

Development of “Project” Land Uses

The ACCMA Model will be used to develop traffic volume forecasts for both “No Project” and “Plus Project” scenarios. The 2035 land uses previously described and summarized in Appendix A include the “Project” land uses. **Appendix B** presents the project only land uses. These land uses will be subtracted from the “Plus Project” land uses to estimate the “No Project” land uses.

Appendix A – Original and Modified Model Land Uses in the Project Vicinity Study Area

TAZ	2005 Model (Original)		2010 Model (Modified)		2035 Model (Original)		2035 Model (Modified)	
	Households	Employment	Households	Employment	Households	Employment	Households	Employment
181	269	271	269	271	306	271	332	271
182	322	205	322	205	390	419	396	456
183	197	219	197	219	197	219	448	126
185	190	575	322	576	993	649	952	903
186	555	339	605	338	1,610	449	1,034	346
187	296	1,143	296	1,143	516	1,488	393	1,399
188	64	2,982	64	2,983	64	6,189	588	6,029
189	180	138	180	137	189	138	322	116
190	275	114	275	114	275	203	430	156
206	317	858	317	1,341	317	858	317	1,341
214	137	1,385	378	1,385	4,531	1,577	3,248	3,577
215	1,218	163	1,218	263	1,218	211	1,218	257
216	1,262	333	1,262	333	1,805	584	1,718	952
217	390	380	390	380	390	4,168	390	5,072
218	652	162	652	162	652	167	677	204
219	1	7,468	1	7,468	1	9,200	1	8,278
220	1	687	1	687	1	2,134	1	1,510
221	823	1,421	823	1,421	1,174	1,544	1,535	649
222	2	4,396	2	4,395	2	4,396	82	3,162
223	23	2,595	23	2,594	226	5,394	460	3,334
224	44	2,560	44	2,561	44	4,389	284	5,305
225	45	1,215	45	1,215	45	1,996	45	1,105
226	719	1,996	719	1,995	935	2,321	1,025	529
227	1	858	1	858	1	1,038	39	123
228	0	1,183	0	1,182	0	1,354	243	1,021
229	429	709	429	709	2,237	681	1,786	240
230	0	714	24	713	0	1,393	24	1,083
231	26	167	771	167	1,778	646	1,553	608
232	0	8,154	0	8,155	0	10,613	0	10,010
233	0	3,142	0	3,141	339	8,052	370	8,909
234	114	1,329	114	1,328	503	1,720	538	1,788
235	149	581	399	581	813	605	850	609
236	40	2,550	40	2,550	256	3,029	276	3,113
237	177	219	177	219	787	255	842	261
238	482	1,110	482	1,110	1,429	1,110	1,515	1,110
239	213	3,567	213	3,568	947	4,146	1,014	4,732
240	43	1,384	43	1,384	43	1,471	43	1,486

TAZ	2005 Model (Original)		2010 Model (Modified)		2035 Model (Original)		2035 Model (Modified)	
	Households	Employment	Households	Employment	Households	Employment	Households	Employment
241	643	2,937	643	2,937	669	3,442	671	3,530
242	70	681	227	681	1,003	736	1,088	746
243	60	550	60	549	60	626	469	639
244	1	1,234	1	1,235	1	1,406	1	1,436
245	30	1,197	269	1,196	37	1,200	736	1,201
246	1	818	1	817	1	818	483	2,718
247	0	785	0	786	0	798	86	800
248	0	983	0	983	884	5,726	482	4,654
249	36	1,216	127	1,216	36	1,216	249	1,216
250	2	1,088	81	1,087	2	1,633	81	1,728
251	28	74	28	74	37	113	38	120
252	6	278	6	278	6	278	6	278
253	0	231	0	231	0	231	0	231
261	190	427	190	426	190	432	190	433
262	615	699	615	699	1,310	697	1,373	697
263	0	504	0	504	0	571	1,012	1,076
264	359	781	359	781	644	985	670	1,021
265	17	383	17	382	6,128	1,508	5,659	1,460
270	447	304	447	305	531	304	539	304
271	139	455	626	456	185	455	826	455
272	0	589	0	589	2,047	1,372	700	2,160
273	449	404	809	404	596	508	1,073	526
274	141	1,161	141	1,160	1,259	1,186	141	1,190
275	0	161	0	161	1,118	219	521	229
276	245	2,153	245	2,153	1,059	2,196	1,133	2,204
277	370	1,093	370	1,094	564	1,436	645	1,496
279	2,578	2,275	2,578	2,274	2,761	2,571	3,038	1,594
280	89	2,334	89	2,334	844	2,444	912	2,463
1402	0	46	0	46	0	48	0	48
Area Subtotal	16,172	83,113	19,027	83,689	46,986	120,232	47,811	116,823

Appendix B – Central District Redevelopment Plan Area Project Land Uses

TAZ	Households	Employment			
		Retail	Service	Other	Total
181	10	0	0	0	0
183	2	0	0	0	0
185	450	422	0	0	422
214	328	1,792	0	100	1,892
221	83	0	0	0	0
223	48	0	0	0	0
226	54	0	0	0	0
231	-211	220	0	0	220
236	14	0	0	0	0
238	64	0	0	0	0
243	61	0	0	0	0
245	44	0	0	0	0
249	19	0	0	0	0
272	700	360	1,800	0	2,160
276	12	0	0	0	0
277	41	0	0	0	0
279	6	0	0	0	0
280	64	0	0	0	0
Total	1,789	2,794	1,800	100	4,694

Appendix E-4

CMP Analysis Calculation



FEHR & PEERS
TRANSPORTATION CONSULTANTS

Central District Redevelopment EIR MTS Roadway System Analysis Summary - 2015 PM												
Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Freeway Segments												
I-880 Northbound												
Between	23rd Avenue	Oak Street	4	66	6,754	6,820	0.84	0.85	D	D	No	no change
Between	Oak Street	I-980	5	32	5,946	5,978	0.59	0.60	C	C	No	no change
Between	I-980	Market Street	4	96	4,355	4,451	0.54	0.56	B	B	No	no change
I-880 Southbound												
Between	Market Street	I-980	4	9	3,980	3,989	0.50	0.50	B	B	No	no change
Between	I-980	Oak Street	5	25	6,591	6,616	0.66	0.66	C	C	No	no change
Between	Oak Street	23rd Avenue	4	139	7,813	7,952	0.98	0.99	E	E	No	no change
I-580 Eastbound												
Between	I-580/I-880	I-980/SR 24	5	72	8,259	8,331	0.83	0.83	D	D	No	no change
Between	I-980/SR 24	Oakland Avenue	5	72	8,270	8,342	0.83	0.83	D	D	No	no change
Between	Oakland Avenue	Grand Avenue	4	10	8,519	8,529	1.06	1.07	F	F	No	no change
Between	Grand Avenue	Park Avenue	5	15	9,372	9,387	0.94	0.94	E	E	No	no change
I-580 Westbound												
Between	Park Avenue	Grand Avenue	4	8	7,489	7,497	0.94	0.94	E	E	No	no change
Between	Grand Avenue	Oakland Avenue	4	6	6,968	6,974	0.87	0.87	D	D	No	no change
Between	Oakland Avenue	I-980/SR 24	5	24	6,416	6,440	0.64	0.64	C	C	No	no change
Between	I-980/SR 24	I-580/I-880	3	24	3,690	3,714	0.61	0.62	C	C	No	no change
I-980 Eastbound												
Between	I-880	17th Street	2	154	2,776	2,930	0.69	0.73	C	C	Yes	no change
Between	18th Street	27th Street	5	74	5,767	5,841	0.58	0.58	B	B	No	no change
Between	27th Street	I-580	4	10	6,102	6,112	0.76	0.76	D	D	No	no change
I-980 Westbound												
Between	I-580	27th Street	3	148	3,295	3,443	0.55	0.57	B	B	No	no change
Between	27th Street	18th Street	5	82	3,332	3,414	0.33	0.34	A	A	No	no change
Between	17th Street	I-880	3	57	1,987	2,044	0.33	0.34	A	A	No	no change
State Highway 260 (Posey Tube) Northbound												
between	Alameda	Oakland	2	77	2,379	2,456	0.59	0.61	C	C	No	no change
State Highway 260 (Webster Tube) Southbound												
between	Oakland	Alameda	2	74	3,174	3,248	0.79	0.81	D	D	No	no change
Arterials												
1st Street Eastbound												
Between	Market Street	Broadway	1	0	7	7	0.01	0.01	A	A	No	no change
Between	Broadway	Oak Street	1	0	105	105	0.13	0.13	A	A	No	no change
1st Street Westbound												
Between	Oak Street	Broadway	1	0	10	10	0.01	0.01	A	A	No	no change
Between	Broadway	Market Street	1	0	3	3	0.00	0.00	A	A	No	no change
5th Street Eastbound												
Between	I-880 Ramps	Adeline Street	2	3	574	577	0.36	0.36	B	B	No	no change

Central District Redevelopment EIR MTS Roadway System Analysis Summary - 2015 PM												
Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Between	Adeline Street	Market Street	2	9	582	591	0.36	0.37	B	B	No	no change
Between	Market Street	Broadway	3	52	1,482	1,534	0.62	0.64	C	C	No	no change
Between	Jackson Street	Oak Street	3	36	1,430	1,466	0.60	0.61	C	C	No	no change
5th Street Westbound												
Between	Adeline Street	I-880 Ramps	1	49	221	270	0.28	0.34	A	A	Yes	no change
7th Street Eastbound												
Between	Mandela Parkway	Adeline Street	2	8	873	881	0.55	0.55	B	B	No	no change
Between	Adeline Street	Brush Street	3	8	794	802	0.33	0.33	A	A	No	no change
Between	Brush Street	Castro Street	3	8	1,227	1,235	0.51	0.51	B	B	No	no change
Between	Castro Street	Broadway	4	5	1,424	1,429	0.45	0.45	B	B	No	no change
Between	Broadway	Oak Street	4	35	1,674	1,709	0.52	0.53	B	B	No	no change
Between	Oak Street	Fifth Avenue	3	60	2,538	2,598	1.06	1.08	F	F	No	no change
7th Street Westbound												
Between	Fifth Avenue	Oak Street	3	48	397	445	0.17	0.19	A	A	No	no change
Between	Castro Street	Brush Street	3	32	147	179	0.06	0.07	A	A	No	no change
Between	Brush Street	Adeline Street	3	23	429	452	0.18	0.19	A	A	No	no change
Between	Adeline Street	Mandela Parkway	2	14	425	439	0.27	0.27	A	A	No	no change
8th Street Eastbound												
Between	5th Avenue	14th Avenue	3	42	2,270	2,312	0.95	0.96	E	E	No	no change
8th Street Westbound												
Between	14th Avenue	5th Avenue	3	36	924	960	0.38	0.40	B	B	No	no change
Between	Oak Street	Broadway	4	64	976	1,040	0.31	0.33	A	A	No	no change
Between	Broadway	Castro Street	3	86	1,365	1,451	0.57	0.60	B	C	No	change
12th Street Eastbound												
Between	Oak Street	1st Avenue	4	61	1,522	1,583	0.48	0.49	B	B	No	no change
Between	1st Avenue	5th Avenue	1	20	902	922	1.13	1.15	F	F	No	no change
Between	5th Avenue	14th Avenue	2	6	923	929	0.58	0.58	B	B	No	no change
12th Street Westbound												
Between	14th Avenue	5th Avenue	2	8	523	531	0.33	0.33	A	A	No	no change
Between	5th Avenue	1st Avenue	2	41	455	496	0.28	0.31	A	A	No	no change
Between	1st Avenue	Oak Street	3	80	943	1,023	0.39	0.43	B	B	Yes	no change
Between	Oak Street	Broadway	3	73	1,234	1,307	0.51	0.54	B	B	No	no change
Between	Broadway	Brush Street	3	40	1,360	1,400	0.57	0.58	B	B	No	no change
Between	Brush Street	Market Street	3	12	638	650	0.27	0.27	A	A	No	no change
14th Street Eastbound												
Between	Mandela Parkway	Adeline Street	2	14	34	48	0.02	0.03	A	A	No	no change
Between	Adeline Street	Brush Street	2	17	17	34	0.01	0.02	A	A	No	no change
Between	Brush Street	Castro Street	2	119	68	187	0.04	0.12	A	A	Yes	no change
Between	Castro Street	Broadway	2	17	23	40	0.01	0.02	A	A	No	no change
Between	Broadway	Oak Street	2	34	1,108	1,142	0.69	0.71	C	C	No	no change
14th Street Westbound												
Between	Oak Street	Broadway	2	40	-	40	0.00	0.03	A	A	No	no change

Central District Redevelopment EIR MTS Roadway System Analysis Summary - 2015 PM												
Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Between	Broadway	Castro Street	2	21	13	34	0.01	0.02	A	A	No	no change
Between	Castro Street	Brush Street	2	5	0	5	0.00	0.00	A	A	No	no change
Between	Brush Street	Adeline Street	2	3	78	81	0.05	0.05	A	A	No	no change
Between	Adeline Street	Mandela Parkway	2	1	28	29	0.02	0.02	A	A	No	no change
Grand Avenue Eastbound												
Between	Mandela Parkway	Adeline Street	3	44	2,652	2,696	1.10	1.12	F	F	No	no change
Between	Adeline Street	Market Street	3	52	2,818	2,870	1.17	1.20	F	F	No	no change
Between	Market Street	San Pablo Avenue	3	47	1,915	1,962	0.80	0.82	D	D	No	no change
Between	San Pablo Avenue	Telegraph Avenue	3	43	1,517	1,560	0.63	0.65	C	C	No	no change
Between	Telegraph Avenue	Broadway	3	143	1,073	1,216	0.45	0.51	B	B	Yes	no change
Between	Broadway	Harrison Street	3	57	1,556	1,613	0.65	0.67	C	C	No	no change
Between	Harrison Street	I-580	3	74	1,738	1,812	0.72	0.76	C	D	Yes	change
Grand Avenue Westbound												
Between	I-580	Harrison Street	3	171	430	601	0.18	0.25	A	A	Yes	no change
Between	Harrison Street	Broadway	3	31	753	784	0.31	0.33	A	A	No	no change
Between	Broadway	Telegraph Avenue	3	72	1,242	1,314	0.52	0.55	B	B	No	no change
Between	Telegraph Avenue	San Pablo Avenue	3	46	726	772	0.30	0.32	A	A	No	no change
Between	San Pablo Avenue	Market Street	3	84	611	695	0.25	0.29	A	A	Yes	no change
Between	Market Street	Adeline Street	3	91	1,196	1,287	0.50	0.54	B	B	Yes	no change
Between	Adeline Street	Mandela Parkway	3	43	1,332	1,375	0.56	0.57	B	B	No	no change
MacArthur Boulevard Eastbound												
Between	San Pablo Avenue	Market Street	2	21	1,477	1,498	0.92	0.94	E	E	No	no change
Between	Market Street	MLK Way	3	51	1,435	1,486	0.60	0.62	C	C	No	no change
Between	MLK Way	Telegraph Avenue	3	40	1,446	1,486	0.60	0.62	C	C	No	no change
Between	Telegraph Avenue	Broadway	3	20	1,846	1,866	0.77	0.78	D	D	No	no change
Between	Broadway	Harrison Street	3	24	2,690	2,714	1.12	1.13	F	F	No	no change
Between	Harrison Street	Grand Avenue	2	46	1,277	1,323	0.80	0.83	D	D	No	no change
MacArthur Boulevard Westbound												
Between	Grand Avenue	Harrison Street	2	70	309	379	0.19	0.24	A	A	Yes	no change
Between	Harrison Street	Broadway	3	52	1,698	1,750	0.71	0.73	C	C	No	no change
Between	Broadway	Telegraph Avenue	3	41	1,316	1,357	0.55	0.57	B	B	No	no change
Between	Telegraph Avenue	MLK Way	3	32	763	795	0.32	0.33	A	A	No	no change
Between	MLK Way	Market Street	3	49	757	806	0.32	0.34	A	A	No	no change
Between	Market Street	San Pablo Avenue	2	76	721	797	0.45	0.50	B	B	Yes	no change
Piedmont Avenue Northbound												
Between	Broadway	MacArthur Boulevard	1	19	522	541	0.65	0.68	C	C	No	no change
Piedmont Avenue Southbound												
Between	MacArthur Boulevard	Broadway	1	33	314	347	0.39	0.43	B	B	Yes	no change
Broadway Northbound												

Central District Redevelopment EIR MTS Roadway System Analysis Summary - 2015 PM												
Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Between	1st Street	5th Street	2	21	1,294	1,315	0.81	0.82	D	D	No	no change
Between	5th Street	8th Street	2	48	846	894	0.53	0.56	B	B	No	no change
Between	8th Street	14th Street	2	75	89	164	0.06	0.10	A	A	Yes	no change
Between	14th Street	Grand Avenue	3	82	400	482	0.17	0.20	A	A	No	no change
Between	Grand Avenue	MacArthur Boulevard	3	151	496	647	0.21	0.27	A	A	Yes	no change
Between	MacArthur Boulevard	40th Street	3	54	850	904	0.35	0.38	B	B	No	no change
Broadway Southbound												
Between	40th Street	MacArthur Boulevard	3	33	477	510	0.20	0.21	A	A	No	no change
Between	MacArthur Boulevard	Grand Avenue	3	100	287	387	0.12	0.16	A	A	Yes	no change
Between	Grand Avenue	14th Street	3	51	221	272	0.09	0.11	A	A	No	no change
Between	14th Street	8th Street	2	84	28	112	0.02	0.07	A	A	Yes	no change
Between	8th Street	5th Street	2	45	382	427	0.24	0.27	A	A	No	no change
Between	5th Street	1st Street	2	22	354	376	0.22	0.23	A	A	No	no change
Webster Street Southbound												
Between	Grand Avenue	14th Street	3	95	1,196	1,291	0.50	0.54	B	B	Yes	no change
Between	14th Street	8th Street	3	46	1,073	1,119	0.45	0.47	B	B	No	no change
Brush Street Southbound												
Between	Grand Avenue	14th Street	3	23	98	121	0.04	0.05	A	A	No	no change
Between	14th Street	7th Street	3	5	767	772	0.32	0.32	A	A	No	no change
Between	7th Street	5th Street	3	14	493	507	0.21	0.21	A	A	No	no change
Market Street Northbound												
Between	1st Street	5th Street	2	0	44	44	0.03	0.03	A	A	No	no change
Between	5th Street	7th Street	2	31	750	781	0.47	0.49	B	B	No	no change
Between	7th Street	14th Street	2	28	971	999	0.61	0.62	C	C	No	no change
Between	14th Street	Grand Avenue	2	25	950	975	0.59	0.61	C	C	No	no change
Between	Grand Avenue	MacArthur Boulevard	2	8	1,449	1,457	0.91	0.91	E	E	No	no change
Market Street Southbound												
Between	MacArthur Boulevard	Grand Avenue	2	53	1,325	1,378	0.83	0.86	D	D	No	no change
Between	Grand Avenue	14th Street	2	27	1,793	1,820	1.12	1.14	F	F	No	no change
Between	14th Street	7th Street	2	12	636	648	0.40	0.41	B	B	No	no change
Between	7th Street	5th Street	2	6	318	324	0.20	0.20	A	A	No	no change
Between	5th Street	1st Street	2	0	16	16	0.01	0.01	A	A	No	no change
<i>Fehr & Peers, 2010.</i>												

**Central District Redevelopment EIR
MTS Roadway System Analysis Summary - 2035 PM**

Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Freeway Segments												
I-880 Northbound												
Between	23rd Avenue	Oak Street	4	66	7,095	7,161	0.89	0.90	D	D	No	no change
Between	Oak Street	I-980	5	32	6,309	6,341	0.63	0.63	C	C	No	no change
Between	I-980	Market Street	4	96	4,887	4,983	0.61	0.62	C	C	No	no change
I-880 Southbound												
Between	I-980	Oak Street	4	9	4,300	4,309	0.54	0.54	B	B	No	no change
Between	Oak Street	23rd Avenue	5	25	7,324	7,349	0.73	0.73	C	C	No	no change
Between	Market Street	I-980	4	139	8,978	9,117	1.12	1.14	F	F	No	no change
I-580 Eastbound												
Between	I-580/I-880	I-980/SR 24	5	72	9,289	9,361	0.93	0.94	E	E	No	no change
Between	I-980/SR 24	Oakland Avenue	5	72	9,340	9,412	0.93	0.94	E	E	No	no change
Between	Oakland Avenue	Grand Avenue	4	10	9,453	9,463	1.18	1.18	F	F	No	no change
Between	Grand Avenue	Park Avenue	5	15	10,458	10,473	1.05	1.05	F	F	No	no change
I-580 Westbound												
Between	Park Avenue	Grand Avenue	4	8	8,105	8,113	1.01	1.01	F	F	No	no change
Between	Grand Avenue	Oakland Avenue	4	6	7,128	7,134	0.89	0.89	D	D	No	no change
Between	Oakland Avenue	I-980/SR 24	5	24	6,626	6,650	0.66	0.66	C	C	No	no change
Between	I-980/SR 24	I-580/I-880	3	24	3,902	3,926	0.65	0.65	C	C	No	no change
I-980 Eastbound												
Between	I-880	17th Street	2	154	2,541	2,695	0.64	0.67	C	C	No	no change
Between	18th Street	27th Street	5	74	6,213	6,287	0.62	0.63	C	C	No	no change
Between	27th Street	I-580	4	10	6,933	6,943	0.87	0.87	D	D	No	no change
I-980 Westbound												
Between	I-580	27th Street	3	148	4,164	4,312	0.69	0.72	C	C	No	no change
Between	27th Street	18th Street	5	82	4,001	4,083	0.40	0.41	B	B	No	no change
Between	17th Street	I-880	3	57	2,068	2,125	0.34	0.35	A	B	No	change
State Highway 260 (Posey Tube) Northbound												
between	Alameda	Oakland	2	77	2,960	3,037	0.74	0.76	C	D	No	change
State Highway 260 (Webster Tube) Southbound												
between	Oakland	Alameda	2	74	3,658	3,732	0.91	0.93	E	E	No	no change
Arterials												
1st Street Eastbound												
Between	Market Street	Broadway	1	-	4	4	0.01	0.01	A	A	No	no change
Between	Broadway	Oak Street	1	-	42	42	0.05	0.05	A	A	No	no change
1st Street Westbound												
Between	Oak Street	Broadway	1	-	19	19	0.02	0.02	A	A	No	no change
Between	Broadway	Market Street	1	-	6	6	0.01	0.01	A	A	No	no change
5th Street Eastbound												

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**Central District Redevelopment EIR
MTS Roadway System Analysis Summary - 2035 PM**

Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Between	I-880 Ramps	Adeline Street	2	3	383	386	0.24	0.24	A	A	No	no change
Between	Adeline Street	Market Street	2	9	293	302	0.18	0.19	A	A	No	no change
Between	Market Street	Broadway	3	52	1,876	1,928	0.78	0.80	D	D	No	no change
Between	Jackson Street	Oak Street	3	36	1,878	1,914	0.78	0.80	D	D	No	no change
5th Street Westbound												
Between	Adeline Street	I-880 Ramps	1	49	360	409	0.45	0.51	B	B	Yes	no change
7th Street Eastbound												
Between	Mandela Parkway	Adeline Street	2	8	1,799	1,807	1.12	1.13	F	F	No	no change
Between	Adeline Street	Brush Street	3	8	1,744	1,752	0.73	0.73	C	C	No	no change
Between	Brush Street	Castro Street	3	8	2,388	2,396	1.00	1.00	F	F	No	no change
Between	Castro Street	Broadway	4	5	2,819	2,824	0.88	0.88	D	D	No	no change
Between	Broadway	Oak Street	4	35	2,757	2,792	0.86	0.87	D	D	No	no change
Between	Oak Street	Fifth Avenue	3	60	2,646	2,706	1.10	1.13	F	F	No	no change
7th Street Westbound												
Between	Fifth Avenue	Oak Street	3	48	1,204	1,252	0.50	0.52	B	B	No	no change
Between	Castro Street	Brush Street	3	32	484	516	0.20	0.21	A	A	No	no change
Between	Brush Street	Adeline Street	3	23	1,062	1,085	0.44	0.45	B	B	No	no change
Between	Adeline Street	Mandela Parkway	2	14	1,056	1,070	0.66	0.67	C	C	No	no change
8th Street Eastbound												
Between	5th Avenue	14th Avenue	3	42	2,270	2,312	0.95	0.96	E	E	No	no change
8th Street Westbound												
Between	14th Avenue	5th Avenue	3	36	924	960	0.38	0.40	B	B	No	no change
Between	Oak Street	Broadway	4	64	976	1,040	0.31	0.33	A	A	No	no change
Between	Broadway	Castro Street	3	86	1,365	1,451	0.57	0.60	B	C	No	change
12th Street Eastbound												
Between	Oak Street	1st Avenue	4	61	1,859	1,920	0.58	0.60	B	C	No	change
Between	1st Avenue	5th Avenue	1	20	944	964	1.18	1.20	F	F	No	no change
Between	5th Avenue	14th Avenue	2	6	1,134	1,140	0.71	0.71	C	C	No	no change
12th Street Westbound												
Between	14th Avenue	5th Avenue	2	8	1,307	1,315	0.82	0.82	D	D	No	no change
Between	5th Avenue	1st Avenue	2	41	904	945	0.57	0.59	B	C	No	change
Between	1st Avenue	Oak Street	3	80	1,641	1,721	0.68	0.72	C	C	Yes	no change
Between	Oak Street	Broadway	3	73	2,022	2,095	0.84	0.87	D	D	No	no change
Between	Broadway	Brush Street	3	40	1,788	1,828	0.75	0.76	C	D	No	change
Between	Brush Street	Market Street	3	12	1,091	1,103	0.45	0.46	B	B	No	no change
14th Street Eastbound												
Between	Mandela Parkway	Adeline Street	2	14	253	267	0.16	0.17	A	A	No	no change
Between	Adeline Street	Brush Street	2	17	217	234	0.14	0.15	A	A	No	no change
Between	Brush Street	Castro Street	2	119	164	283	0.10	0.18	A	A	Yes	no change
Between	Castro Street	Broadway	2	17	29	46	0.02	0.03	A	A	No	no change
Between	Broadway	Oak Street	2	34	993	1,027	0.62	0.64	C	C	No	no change

E-33

**Central District Redevelopment EIR
MTS Roadway System Analysis Summary - 2035 PM**

Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
14th Street Westbound												
Between	Oak Street	Broadway	2	40	0	40	0.00	0.03	A	A	No	no change
Between	Broadway	Castro Street	2	21	33	54	0.02	0.03	A	A	No	no change
Between	Castro Street	Brush Street	2	5	57	62	0.04	0.04	A	A	No	no change
Between	Brush Street	Adeline Street	2	3	110	113	0.07	0.07	A	A	No	no change
Between	Adeline Street	Mandela Parkway	2	1	43	44	0.03	0.03	A	A	No	no change
Grand Avenue Eastbound												
Between	Mandela Parkway	Adeline Street	3	44	2,832	2,876	1.18	1.20	F	F	No	no change
Between	Adeline Street	Market Street	3	52	2,899	2,951	1.21	1.23	F	F	No	no change
Between	Market Street	San Pablo Avenue	3	47	2,564	2,611	1.07	1.09	F	F	No	no change
Between	San Pablo Avenue	Telegraph Avenue	3	43	2,484	2,527	1.03	1.05	F	F	No	no change
Between	Telegraph Avenue	Broadway	3	143	1,386	1,529	0.58	0.64	B	C	Yes	change
Between	Broadway	Harrison Street	3	57	1,824	1,881	0.76	0.78	D	D	No	no change
Between	Harrison Street	I-580	3	74	2,201	2,275	0.92	0.95	E	E	No	no change
Grand Avenue Westbound												
Between	I-580	Harrison Street	3	171	838	1,009	0.35	0.42	B	B	Yes	no change
Between	Harrison Street	Broadway	3	31	1,290	1,321	0.54	0.55	B	B	No	no change
Between	Broadway	Telegraph Avenue	3	72	1,993	2,065	0.83	0.86	D	D	No	no change
Between	Telegraph Avenue	San Pablo Avenue	3	46	1,466	1,512	0.61	0.63	C	C	No	no change
Between	San Pablo Avenue	Market Street	3	84	1,339	1,423	0.56	0.59	B	C	No	change
Between	Market Street	Adeline Street	3	91	2,182	2,273	0.91	0.95	E	E	Yes	no change
Between	Adeline Street	Mandela Parkway	3	43	2,401	2,444	1.00	1.02	F	F	No	no change
MacArthur Boulevard Eastbound												
Between	San Pablo Avenue	Market Street	2	21	1,784	1,805	1.12	1.13	F	F	No	no change
Between	Market Street	MLK Way	3	51	2,151	2,202	0.90	0.92	D	E	No	change
Between	MLK Way	Telegraph Avenue	3	40	2,130	2,170	0.89	0.90	D	D	No	no change
Between	Telegraph Avenue	Broadway	3	20	2,201	2,221	0.92	0.93	E	E	No	no change
Between	Broadway	Harrison Street	3	24	2,720	2,744	1.13	1.14	F	F	No	no change
Between	Harrison Street	Grand Avenue	2	46	1,716	1,762	1.07	1.10	F	F	No	no change
MacArthur Boulevard Westbound												
Between	Grand Avenue	Harrison Street	2	70	345	415	0.22	0.26	A	A	Yes	no change
Between	Harrison Street	Broadway	3	52	2,154	2,206	0.90	0.92	D	E	No	change
Between	Broadway	Telegraph Avenue	3	41	1,753	1,794	0.73	0.75	C	C	No	no change
Between	Telegraph Avenue	MLK Way	3	32	1,379	1,411	0.57	0.59	B	C	No	change
Between	MLK Way	Market Street	3	49	1,341	1,390	0.56	0.58	B	B	No	no change
Between	Market Street	San Pablo Avenue	2	76	1,049	1,125	0.66	0.70	C	C	Yes	no change
Piedmont Avenue Northbound												
Between	Broadway	MacArthur Boulevard	1	19	737	756	0.92	0.95	E	E	No	no change
Piedmont Avenue Southbound												
Between	MacArthur Boulevard	Broadway	1	33	504	537	0.63	0.67	C	C	Yes	no change
Broadway Northbound												

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**Central District Redevelopment EIR
MTS Roadway System Analysis Summary - 2035 PM**

Link Location	Segment Limits		# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	No Project LOS	With Project LOS	Change in V/C >3%	Change in LOS
Between	1st Street	5th Street	2	21	1,668	1,689	1.04	1.06	F	F	No	no change
Between	5th Street	8th Street	2	48	1,449	1,497	0.91	0.94	E	E	No	no change
Between	8th Street	14th Street	2	75	174	249	0.11	0.16	A	A	Yes	no change
Between	14th Street	Grand Avenue	3	82	636	718	0.27	0.30	A	A	No	no change
Between	Grand Avenue	MacArthur Boulevard	3	151	1,159	1,310	0.48	0.55	B	B	Yes	no change
Between	MacArthur Boulevard	40th Street	3	54	1,785	1,839	0.74	0.77	C	D	No	change
Broadway Southbound												
Between	40th Street	MacArthur Boulevard	3	33	732	765	0.31	0.32	A	A	No	no change
Between	MacArthur Boulevard	Grand Avenue	3	100	405	505	0.17	0.21	A	A	Yes	no change
Between	Grand Avenue	14th Street	3	51	217	268	0.09	0.11	A	A	No	no change
Between	14th Street	8th Street	2	84	58	142	0.04	0.09	A	A	Yes	no change
Between	8th Street	5th Street	2	45	946	991	0.59	0.62	C	C	No	no change
Between	5th Street	1st Street	2	22	873	895	0.55	0.56	B	B	No	no change
Webster Street Southbound												
Between	Grand Avenue	14th Street	3	95	1,404	1,499	0.58	0.62	B	C	Yes	change
Between	14th Street	8th Street	3	46	1,361	1,407	0.57	0.59	B	C	No	change
Brush Street Southbound												
Between	Grand Avenue	14th Street	3	23	241	264	0.10	0.11	A	A	No	no change
Between	14th Street	7th Street	3	5	955	960	0.40	0.40	B	B	No	no change
Between	7th Street	5th Street	3	14	442	456	0.18	0.19	A	A	No	no change
Market Street Northbound												
Between	1st Street	5th Street	2	-	43	43	0.03	0.03	A	A	No	no change
Between	5th Street	7th Street	2	31	1,217	1,248	0.76	0.78	D	D	No	no change
Between	7th Street	14th Street	2	28	1,646	1,674	1.03	1.05	F	F	No	no change
Between	14th Street	Grand Avenue	2	25	1,800	1,825	1.12	1.14	F	F	No	no change
Between	Grand Avenue	MacArthur Boulevard	2	8	1,679	1,687	1.05	1.05	F	F	No	no change
Market Street Southbound												
Between	MacArthur Boulevard	Grand Avenue	2	53	1,708	1,761	1.07	1.10	F	F	No	no change
Between	Grand Avenue	14th Street	2	27	1,781	1,808	1.11	1.13	F	F	No	no change
Between	14th Street	7th Street	2	12	831	843	0.52	0.53	B	B	No	no change
Between	7th Street	5th Street	2	6	273	279	0.17	0.17	A	A	No	no change
Between	5th Street	1st Street	2	-	16	16	0.01	0.01	A	A	No	no change

Fehr & Peers, 2010.

APPENDIX F

Alternatives Tables

**TABLE F-1
COMPARISON OF FUTURE DEVELOPMENT AND GROWTH POTENTIALS
FOR THE PROJECT AREA, 2012-2023^a**

	Proposed Amendments		Alternative 1 (No Project)		Alternative 2 (Reduced Growth)		Alternative 3 (Victory Court Use)	
	Quantity	% of Project	Quantity	% of Project	Quantity	% of Project	Quantity	% of Project
Residential ^b (dwelling units)	6,303	100%	3,959	63%	5,661	90%	5,498	87%
Population	10,286	100%	6,462	63%	9,238	90%	8,974	87%
Entertainment/ Retail (sq. ft.)	1,509,500	100%	182,500	12%	994,500	66%	1,509,500	100%
Office (sq. ft.)	2,050,000	100%	1,510,000	74%	1,780,000	87%	2,010,000	98%
Research & Development (sq. ft.) ^c	-	-	-	-	-	-	450,000	0%
Hotel (sq. ft.)	150,000	100%	0	0%	85,000	57%	150,000	100%
39,000-seat Ballpark	1	100%	0	0%	1	100%	0	0%
Employment	10,635	100%	5,473	0%	8,459	80%	11,877	112%

- ^a The totals shown in this table include all *potential* development within the Project Area, which includes development that could occur even without the Proposed Amendments. This is shown to allow a comparison of a No Project Alternative (which is development that could occur *without* the Proposed Amendments) to development that could potentially occur with or without the Proposed Amendments. The detailed development tables supporting this comparison table are Tables F-2 (commercial and employment growth) through F-7 (population, households, and population) in this Appendix..
- ^b Except for the No Project Alternative, includes housing facilitated by the Proposed Amendments in the Broadway/Valdez District and Valdez Triangle, Victory Court, *and* the affordable units obligated by the additional approved or predevelopment housing (per the Oakland Draft Housing Element 2007-2014) that could occur in the Project Area but that is not necessarily facilitated by the Proposed Amendments.
- ^c Research and Development land use is only included in Alternative 3.

SOURCE: Hausrath Economics Group, 2010

TABLE F-2
ALTERNATIVE 1: NO AMENDMENTS
COMMERCIAL SPACE AND EMPLOYMENT GROWTH POTENTIALS FOR
PROJECT AREA DEVELOPMENT DURING 2012-2023 PERIOD

Potential Development	Commercial Space (square feet)	Employment ^b
City Center T-5/6 ^a		
– Office	600,000	2,000
– Retail	7,500	25
	607,500	2,025
City Center T-12 ^a		
– Office	600,000	2,000
– Retail	95,000	211
	695,000	2,211
1100 Broadway ^a		
– Office	310,000	1,033
– Retail	10,000	29
	320,000	1,062
1800 Broadway ^c		
– Entertainment/Retail	70,000	175
	70,000	175
TOTAL	1,692,500 sq. ft.	5,473

NOTE: The developments listed could proceed without the project based on existing agreements with the Agency, without amendments.

^a City of Oakland, October/November 2010.

^b Employment estimated by Hausrath Economics Group, based on density factors by use, for the types of development proposed for downtown Oakland.

^c Represents a smaller project that the City assumes may occur without the amendments.

SOURCE: City of Oakland; Hausrath Economics Group. ESA, 2011.

**TABLE F-3
ALTERNATIVE 2: REDUCED GROWTH**

**COMMERCIAL SPACE AND EMPLOYMENT GROWTH POTENTIALS FOR PROJECT AREA
DEVELOPMENT DURING EXTENSION PERIOD WITH REDEVELOPMENT PLAN AMENDMENTS**

Potential Development	Commercial Space (square feet/seats)	Employment ^d
♦ Broadway/Valdez District, Major Retail Development in Valdez Triangle (Specific Plan Alt. 2) ^a		
– Major retail	682,000	1,535
– Hotel	85,000	170
	<hr/> 767,000	<hr/> 1,705
♦ Victory Court, Ballpark and Commercial Development ^b		
– Retail	90,000	150
– Office	270,000	831
– Ballpark	39,000 seats	200
	<hr/> 360,000 sq. ft. +39,000-seat ballpark	<hr/> 1,181
♦ 1800 San Pablo ^c		
– Entertainment/Retail	110,000	275
♦ Subtotal – Development Due to Amendments	1,237,000 sq. ft. +39,000-seat ballpark	3,161
City Center T-5/6 ^c		
– Office	600,000	2,000
– Retail	7,500	25
	<hr/> 607,500	<hr/> 2,025
City Center T-12 ^c		
– Office	600,000	2,000
– Retail	95,000	211
	<hr/> 695,000	<hr/> 2,211
1100 Broadway ^c		
– Office	310,000	1,033
– Retail	10,000	29
	<hr/> 320,000	<hr/> 1,062
Subtotal – Other Potential Development	1,622,500 sq. ft.	5,298
TOTAL	2,859,500 sq. ft. +39,000-seat ballpark	8,459

NOTE: Developments identified with a ♦ (major retail in Valdez Triangle, Victory Court ballpark and commercial, and Uptown entertainment/retail) are unlikely to proceed without the Redevelopment Plan Amendments. The other development could proceed without the Proposed Amendments based on existing agreements with the Agency.

^a Broadway/Valdez District Specific Plan Alternatives Analysis Report, December 2009, January 2010.

^b City of Oakland, October/November 2010. Note that the development area for Victory Court is located in both the Central District and Central City East Redevelopment Project Areas.

^c City of Oakland, October/November 2010.

^d Employment estimated by Hausrath Economics Group, based on density factors by use, for the types of development proposed for downtown Oakland.

SOURCE: City of Oakland; Hausrath Economics Group.

**TABLE F-4
ALTERNATIVE 3: VICTORY COURT USE**

**COMMERCIAL SPACE AND EMPLOYMENT GROWTH POTENTIALS FOR PROJECT AREA
DEVELOPMENT DURING EXTENSION PERIOD WITH REDEVELOPMENT PLAN AMENDMENTS**

Potential Development	Commercial Space (square feet)	Employment ^d
♦ Broadway/Valdez District, Major Retail Development in Valdez Triangle (Specific Plan Alt. 3) ^a		
– Major retail	810,000	1,800
– Related commercial, entertainment, services, office	297,000	800
– Hotel	150,000	300
	1,257,000	2,900
♦ Victory Court Commercial Development ^b		
– Retail	180,000	300
– Office	500,000	1,543
– Research & Development Campus ^e	450,000	1,059
	1,130,000 sq. ft.	2,902
♦ 1800 San Pablo ^c		
– Entertainment/Retail	110,000	275
♦ Subtotal – Development Due to Amendments	2,497,000 sq. ft.	6,077
City Center T-5/6 ^c		
– Office	600,000	2,000
– Retail	7,500	25
	607,500	2,025
City Center T-12 ^c		
– Office	600,000	2,000
– Retail	95,000	211
	695,000	2,211
1100 Broadway ^c		
– Office	310,000	1,033
– Retail	10,000	29
	320,000	1,062
Subtotal – Other Potential Development	1,622,500 sq. ft.	5,298
TOTAL	4,119,500 sq. ft.	11,375

NOTE: Developments identified with a ♦ (major retail in Valdez Triangle, Victory Court ballpark and commercial, and Uptown entertainment/retail) are unlikely to proceed without the Redevelopment Plan Amendments. The other development could proceed without the Proposed Amendments based on existing agreements with the Agency.

^a Broadway/Valdez District Specific Plan Alternatives Analysis Report, December 2009, January 2010.

^b City of Oakland, March 2011. Note that the development area for Victory Court is located in both the Central District and Central City East Redevelopment Project Areas.

^c City of Oakland, October/November 2010.

^d Employment estimated by Hausrath Economics Group, based on density factors by use, for the types of development proposed for downtown Oakland.

^e Research & Development (R&D) employment estimated at density factor of approximately 425 gross square foot of R&D floor area per employee.

SOURCE: City of Oakland; Hausrath Economics Group. ESA, 2011.

**TABLE F-5
ALTERNATIVE 1: NO PROJECT**

**HOUSING DEVELOPMENT AND POPULATION GROWTH POTENTIALS
FOR PROJECT AREA DURING 2012-2023 PERIOD**

Potential Development	Housing Units	Households ^b	Population ^c
Approved Housing Projects ^a	1,876	1,801	3,062
Housing Projects in Predevelopment ^a	<u>2,083</u>	<u>2,000</u>	<u>3,400</u>
TOTAL^d	3,959	3,801	6,462

- ^a City of Oakland, October/November 2010, consistent with the Oakland Draft Housing Element 2007-2014. Housing projects that are approved or in predevelopment are assumed for the Valdez Triangle area, whereas the Victory Court area is assumed to stay as-is. The affordable housing units to be required with the Proposed Amendments are not assumed to be built under this alternative.
- ^b Assumes an average, four percent vacancy factor.
- ^c Assumes an average of 1.7 persons per household, appropriate for higher-density housing in downtown Oakland.
- ^d No affordable housing production obligation would occur without the Proposed Amendments.

SOURCE: City of Oakland; Hausrath Economics Group.

**TABLE F-6
ALTERNATIVE 2: REDUCED GROWTH**

**HOUSING DEVELOPMENT AND POPULATION GROWTH POTENTIALS FOR PROJECT AREA
DURING EXTENSION PERIOD WITH REDEVELOPMENT PLAN AMENDMENTS**

Potential Development	Housing Units	Households ^e	Population ^f
♦ Broadway/Valdez District, Housing Development in Valdez Triangle (Specific Plan Alt. 2) ^a	544	522	888
♦ Victory Court Residential Development ^b	350	336	571
Other Approved Housing Projects ^c	1,485	1,426	2,424
Other Housing Projects in Predevelopment ^c	<u>2,544</u>	<u>2,442</u>	<u>4,151</u>
Subtotal	4,923	4,726	8,034
♦ Affordable Housing Production Obligation ^d	738	708	1,204

NOTE: Developments identified with a ♦ (Victory Court, Valdez Triangle major retail/mixed use, and 15 percent affordable housing production obligation) are unlikely to occur without the Proposed Amendments.

- ^a Broadway/Valdez District Specific Plan Alternatives Analysis Report, December 2009.
- ^b City of Oakland, October/November 2010. Note that the development area for Victory Court is located in both the Central District and Central City East Redevelopment Project Areas.
- ^c City of Oakland, October/November 2010, consistent with the Oakland Draft Housing Element 2007-2014.
- ^d Under the extension of redevelopment, at least 15 percent of all housing development in the project area would be required to be affordable to persons and families of low- or moderate-income. Of these low-mod units, at least 40 percent must be affordable to persons and families of very-low income. The requirement would apply to the Central District overall and would have to be met over a 10-year period.
- ^e Assumes an average, four percent vacancy factor.
- ^f Assumes an average of 1.7 persons per household, appropriate for higher-density housing in downtown Oakland.

SOURCE: City of Oakland; Hausrath Economics Group.

**TABLE F-7
ALTERNATIVE 3: VICTORY COURT USE**

**HOUSING DEVELOPMENT AND POPULATION GROWTH POTENTIALS FOR PROJECT AREA
DURING EXTENSION PERIOD WITH REDEVELOPMENT PLAN AMENDMENTS**

Potential Development	Housing Units	Households ^e	Population ^f
♦ Broadway/Valdez District, Housing Development in Valdez Triangle (Specific Plan Alt. 3) ^a	752	722	1,228
♦ Victory Court Development ^b			
Other Approved Housing Projects ^c	1,485	1,426	2,424
Other Housing Projects in Predevelopment ^c	<u>2,544</u>	<u>2,442</u>	<u>4,151</u>
Subtotal	4,781	4,590	7,803
♦ Additional Affordable Housing Production Obligation ^d	717	689	1,171
TOTAL	5,498	5,279	8,974

NOTE: Developments identified with a ♦ (Victory Court, Valdez Triangle major retail/mixed use, and 15 percent affordable housing production obligation) are unlikely to occur without the Proposed Amendments.

^a Broadway/Valdez District Specific Plan Alternatives Analysis Report, December 2009, January 2010.

^b Note that the development area for Victory Court is located in both the Central District and Central City East Redevelopment Project Areas.

^c City of Oakland, October/November 2010, consistent with the Oakland Draft Housing Element 2007-2014.

^d Under the extension of redevelopment, at least 15 percent of all housing development in the project area would be required to be affordable to persons and families of low- or moderate-income. Of these low-mod units, at least 40 percent must be affordable to persons and families of very-low income. The requirement would apply to the Central District overall and would have to be met over a 10-year period.

^e Assumes an average, four percent vacancy factor.

^f Assumes an average of 1.7 persons per household, appropriate for higher-density housing in downtown Oakland.

SOURCE: City of Oakland; Hausrath Economics Group. ESA, 2011.

