JACK LONDON SQUARE 4TH & MADISON PROJECT

Appendices
Draft Environmental Impact Report

Case No. ER15-005
State Clearinghouse No. 2015042051

Prepared for:
City of Oakland

August 2015

URBAN PLANNING PARTNERS INC.

JACK LONDON SQUARE 4TH & MADISON PROJECT

Appendices
Draft Environmental Impact Report

Case No. ER15-005
State Clearinghouse No. 2015042051

Prepared for the City of Oakland

By:

Urban Planning Partners, Inc.
505 17th Street, 2nd Floor
Oakland, CA 94612

With:

BASELINE Environmental Consulting
Carey & Co., Inc.
Fehr & Peers

August 2015

URBAN PLANNING PARTNERS INC.

APPENDIX A

Notice of Preparation and Written Comments Received

CITY OF OAKLAND

DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA • SUITE 3315 • OAKLAND, CALIFORNIA 94612

Planning and Building Department
Bureau of Planning

(510) 238-3941
FAX (510) 238-6538
TDD (510) 238-3254

NOTICE OF PREPARATION (NOP) OF A DRAFT ENVIRONMENTAL IMPACT REPORT (EIR) JACK LONDON SQUARE 4TH & MADISON

The City of Oakland's Department of Planning and Building is preparing a Draft Environmental Impact Report (EIR) for the proposed Jack London Square 4th and Madison Project (the project) as identified below, and is requesting comments on the scope and content of the Draft EIR. The Draft EIR will address the potential physical, environmental effects that the project may have on each of the environmental topics outlined in the California Environmental Quality Act (CEQA). The City has **not** prepared an Initial Study.

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 or via email to: Peterson Z. Vollmann, City of Oakland, Bureau of Planning, 250 Frank H. Ogawa, Suite 2114 Oakland, CA 94612; (510) 238-6167(phone); (510) 238-4730(fax) or by e-mail at pvollmann@oaklandnet.com. Comments on the NOP must be received at the above mailing or e-mail address **by 4:00 p.m. on May 18, 2015**. Please reference case number **ER15-005** in all correspondence. In addition, comments may be provided at the EIR Scoping Meetings to be held before the City Planning Commission and Landmarks Preservation Advisory Board:

PUBLIC HEARINGS: The City Planning Commission will conduct a public scoping hearing on the Draft EIR for the project on Wednesday, May 6, 2015, at 6:00 p.m. in Sgt. Mark Dunakin Hearing Room 1, City Hall, 1 Frank H. Ogawa Plaza, Oakland, CA 94612.

The Landmarks Preservation Advisory Board will conduct a public scoping hearing on the Draft EIR for the project on Monday, May 11, 2015, at 6:00 p.m in Sgt. Mark Dunakin Hearing Room 1, City Hall, 1 Frank H. Ogawa Plaza, Oakland, CA 94612.

PROJECT TITLE: Jack London Square 4th & Madison

PROJECT LOCATION: The project is proposed at a 1.5 block site in Jack London Square located at 180 4th Street and 431 Madison Street (APN#s 001-0161-001, 001-0161-002, and 001-0161-007-07).

PROJECT SPONSOR: CP V JLS, LLC

EXISTING CONDITIONS: The approximately 90,169 square-foot (2.07 acre) project site, which consists of a 1.38 acre parcel (APN#s 001-0161-001 and 001-0161-002) and a 0.69 acre parcel (APN 001-0161-007-07), is located in the City of Oakland at 180 4th Street in the Jack London District in the City of Oakland. The northern, larger parcel comprises the entire block between 4th and 5th Streets and Jackson and Madison Streets. Two buildings located on this parcel, and at addresses 430 Jackson Street and 425 Madison Street, function currently as office space for Cost Plus World Market. One building is a 45,000 square-foot, single-story warehouse building and the other contains 15,000 square feet of office space. Both buildings currently house approximately 100 employees of back office and sales staff. Cost Plus World Market, however, was acquired by Bed Bath & Beyond and as a result, this location will be phased out within the next one to three years. The southern, smaller parcel comprises one-half block at 431 Madison Street, between 3rd and 4th Streets and along Madison Street. It is a paved parking area consisting of wheel blocks, a drainage channel, a picnic area, and pole-mounted spot lights. The parking lot is used exclusively by Cost Plus World Market employees and is usually 50 to 75 percent full.

The site is bounded by Jackson Street to the west, 5th Street to the north, Madison Street to the east, and 3rd Street to the south. The project site is within one-half mile of the Lake Merritt Bay Area Rapid Transit District (BART) station, and is located adjacent to (within a 200-foot radius of) Interstate 880 (I-880). Uses in the project vicinity are primarily industrial in nature with some residential adjacencies. The project site contains an existing building that is a contributing historic resource to the Oakland Waterfront Warehouse Historic District. The historic district is listed in the National Register of Historic Places. The project site is not included on any list compiled pursuant to Government Code Section 65962.5

PROJECT DESCRIPTION: The project would demolish the existing building and surface parking lot and construct approximately 330 apartments and approximately 3,000 square feet of ground floor commercial in two buildings of Type IIIa construction, including 5 levels of wood frame construction (potentially with an additional mezzanine) over two levels of Type I concrete.

PROBABLE ENVIRONMENTAL EFFECTS:

It is anticipated that the project may have significant environmental impacts related to the following environmental topic areas, which will be evaluated in the Draft EIR: **Land Use & Planning, Air Quality, Cultural Resources, Greenhouse Gas Emissions, Noise, and Transportation**. It is anticipated that the project will not have significant environmental impacts on **Agriculture and Forest Resources, Aesthetics, Biological Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Mineral Resources, Population and Housing, Public Services, Recreation, and Utilities and Service Systems**. A brief discussion of each of these topics and documentation as to why impacts related to these topics will not be significant will be provided in the Draft EIR. The level of analysis and discussion for these topics is anticipated to be similar to what would typically be included in an Initial Study. The City's Standard Conditions of Approval will be referenced where applicable.

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

April 17, 2015
File Number ER15-005

Darin Ranelletti
City of Oakland
Environmental Review Officer

Vollmann, Peterson

From: Suzanne Chan <suzannechan.chan@gmail.com>
Sent: Tuesday, April 21, 2015 1:57 PM
To: Vollmann, Peterson
Subject: Re: City Of Oakland Public Hearing Notice- Jack London Square 4th & Madison Project

Reference to case - ER15-005

Will these be rentals, if so it will absolutely HURT JLS and i heavily oppose this. Also as a property owner at the Sierra and facing the parking lot, how high will the structure be? The Ellington already blocked by view of the Bay, please do not put any more buildings to block pre-existing ones for the benefit of a developer.

Suzanne Chan

Vollmann, Peterson

From: Stefano Caccia <smcaccia@gmail.com>
Sent: Friday, April 24, 2015 6:30 PM
To: Vollmann, Peterson
Subject: 4th & Madison Streets (APN:001-0161-001-00; 002-00; & -007-07)

Dear Peterson Z. Vollmann,

I own a dwelling at 428 Alice Street in Oakland, adjacent to the proposed construction of 330 dwelling units at 4th & Madison streets. I understand you are the case planner. I would like to receive additional information on the plan. I'd like to understand the height or number of floors of the dwelling. Will it increase over the current structure? Any additional information would be greatly appreciated.

Sincerely,
Steven M Caccia
415-290-2525

TO: P. VOLLMANN
FR: BRICKHOUSE LOFTS HOA (201 3RD STREET)
RE: LANDMARKS ADVISORY BOARD 5/11/15 HEARING
4th & MADISON DEVELOPMENT

Dear Mr. Vollmann,

I am sorry we are unable to attend tonight's hearing regarding the above project. As set forth in our May 6, 2015 letter to the City Planning Commission, and which was emailed to members of the Advisory Board, we generally favor development.

We are opposed, however, to Carmel Partners' plan to demolish the Cost Plus warehouse. The Cost Plus warehouse is listed on the national registry and serves as the 5th Street entry to the Jack London Square Historic Warehouse District.

Brickhouse Lofts, at 3rd & Jackson St., is in the immediate vicinity of the proposed project. We are proud of our award-winning building's aesthetic contribution to the Jack London Square Historic Warehouse District.

An historic district provides stability to its community and increases property values. Being a part of an historic district assures us we will not have an out-of-scale and out-of-character building erected next door.

The 4th and Madison warehouse was once home to S&W Fine Foods -- a local company founded in 1896 by a San Francisco family. The 4th & Madison warehouse was developed for that local company in 1937, and remained with them until 2000. The building has distinguished architectural features, including Art Deco fluted pilasters.

We ask that you require the developers to contribute rather than detract from our community by, at least, retaining the façade of the historic property and reconsidering the out-of-scale height.

Thank you for your consideration.

Respectfully submitted,

BRICKHOUSE LOFTS HOA
Judith E. Ganz, email:jganzbx67@gmail.com
510.306.6904

Brickhouse Lofts Home Owners Association
201 Third Street
Oakland, CA 94607

May 6, 2015

RE:
CITY OF OAKLAND CASE FILE NO. ER15005
JACK LONDON SQUARE 4TH & MADISON; Notice of Preparation.

The Home Owners Association (HOA) of Brickhouse Lofts, located at 201 Third Street, Oakland, CA 94607, completed in 1998 and one of the pioneering structures in our Jack London Square Historic District, is in favor of new development that retains our unique warehouse heritage, brings vitality to our community, enhances public safety, creates an environment for needed services, and encourages population diversity.

In that light, and so that our community moves in the right direction, our HOA requests the following be included in the EIR:

I. **Transportation/Traffic.**

The NOP correctly lists transportation as an area to be studied in the EIR.

In recent years, the vitality of our community has improved with commercial businesses and restaurants locating in Jack London Square. But with that influx, vehicular traffic has dramatically increased, particularly during peak hours.

Jack London Square is easily accessible to public transit. However, vehicles are still necessary because of the absence of basic services, including the lack of a

grocery store and medical services, for example. Moreover, although our community may be currently populated largely by 'millenials', others -- including retirees and families with young children who live here as well -- may be unable to rely solely on public transit.

The proposed Carmel Partners Project (Project) of 330 units, 330 cars, and 660 people, will have significant adverse affects on traffic which may be off-putting to new residents and office workers looking to capitalize on the easy freeway access our neighborhood provides. The likely congestion will impede the flow of emergency service vehicles when needed.

The study of the impact on traffic on our community by this Project should include, but not be limited to, the following:

A. *Freeway Access.*

Will the Project further degrade the access to and exit from the I-880 freeway on Jackson Street and 6th Street that is already *too congested to be functional at peak hours,* and has been the subject of long-standing community complaints yet to be adequately addressed by the City. (See,"City of Oakland Service Request #485970 Jackson St and 6th St." correspondence, attached as Exhibit A and incorporated by reference as if set forth in full.)

The EIR should examine the following mitigation measures or require the City and/or the Project to devise others designed to satisfy standards:

(1) install a left-hand turn only traffic signal at the Jackson St. & 6th Street freeway entrance and optimize signal timing to alleviate the gridlock;

(2) change parking on Jackson Street between 4th and 5th Streets -- which is currently angled and makes the exit from the freeway ramp dangerous and congested -- to parallel only and restricted altogether during rush hours;

(3) extend the current free shuttle bus route to include Jackson Street to and from the Lake Merritt BART station, and/or improve the lighting under the freeway overpasses, to make access to public transit safer and more convenient.

B. *Will the City, through design review, ensure the Project's Entrance will not result in permanent and substantial traffic hazards*?

The location of the Project's garage and/or entrance currently proposed on Jackson Street will expose roadway users to a permanent and substantial transportation hazard, and will further clog Jackson Street which is already too congested to be functional. Shifting the entrance to Harrison Street will alleviate the back-up of traffic that will form on Jackson Street; and

C. *Parking.*

Insure the Project will adhere to Oakland street parking code requirements.

II. **Noise.**

Will the Project days and hours of construction be limited to from Monday through Friday, and forbid construction on Saturday, Sunday, and State and Federal holidays? Will the City mitigate the use of pile driving, by requiring other means of construction, the use of quiet technology, restrict hours of use, and monitor noise attenuation measures?

III. **Other Environmental Effects.**

The NOP "anticipates the project will not have significant environmental impacts on …" a long list that includes areas that should be addressed. (NOP page 2.) Because of the dramatic impact of 330 units, 330 cars, and 660 people on the environment, it is insufficient that the NOP has already determined these environmental factors will not be further studied. We understand the City will impose its "Standard Conditions of Approval and Mitigation Monitoring and Reporting Program", but as long-time owners of our proximate loft building -- and intimate familiarity with demolition and construction in our area -- we seek the City's special attention to the following:

A. *Aesthetics*. Whether the proposed project will negatively impact Jack London Square Historic Warehouse's aesthetics should be addressed in the EIR. The Cost Plus existing warehouse, and the proposed Project, is the entrance to the neighborhood's historic district.

(1) *Will the Project destroy the existing warehouse*?

The EIR should address the economic and political impact of the proposed destruction of the existing warehouse on the community. Historic warehouses give our neighborhood its unique character. By demolishing the existing warehouse and replacing it with a uniform building jeopardizes our neighborhood's allure. Similarly, high-rise buildings bring a modernity inconsistent with our historic designation.

Maintaining an historic district increases property values, provides a higher degree of investor confidence, and ensures the promise of community stability in that no out-of-scale or out-of-character building will be erected next door.

New development design review should focus on varied architecture to avoid further projects like Allegro: three blocks of bland architecture that detracts from our community's aesthetics. Projects should vary in height and density. Recognizing that modified Type V construction is the most economical does not mean that all projects, including this one, should adhere to this generic form.

The façade of the Cost Plus warehouse can be maintained within the new Project to retain, at least, some of the historic nature of the building.

(2) *Will the Project cast shadow that substantially impairs the beneficial use of pedestrian walk-ways?*

B. *Hydrology and Water Quality*. The EIR should address what is the source of water for this many units, particularly in light of California's drought and new water restrictions, whether the Project's water usage will exceed the capacity

of existing stormwater drainage systems, and whether the Project will degrade water quality.

C. *Geology and Soils.*

Since the Project is located above a landfill, has it been determined whether there is an approved closure or closure plan or unknown fill soils that would result in substantial soil erosion or loss of topsoil, or jeopardize the water table, creating substantial risks to life or property?

Jack London Square's proximity to the Estuary makes it necessary to examine the impact of the proposed development on the area's water table. The shoreline was once a series of coves, bays, inlets, and tidal marshlands fed by creeks and watercourses from the hills; over time, human activity advanced it incrementally outward into the bay. The Estuary was narrowed by filling and lengthened by dredging until it became a linear tidal canal that connects San Francisco Bay with San Leandro Bay.

(2) *Will the City mitigate the use of pile driving and monitor vibration?*

The EIR should mitigate the adverse effects of pile driving and its vibrations on the neighboring dwellings and land, and determine whether we will be exposed to vibrations that exceeds state and federal criteria. In June 2000, when the Allegro project was under construction, one of the pile drivers fell on Brickhouse Lofts; it

damaged windows, injured a worker, caused a car fire and total destruction of that car, downed power lines, and required police intervention and the shut down of our street for the entire day.

D. *Utility and Service Systems*. The study should evaluate the existing infrastructure to determine whether our utility and sewer systems can accommodate the increased usage, and/or whether the infrastructure needs to be improved to avoid risks to life or property. There have already been several electrical transformer explosions on Third Street and flooded streets at the corner of 3rd & Jackson during rain storms.

E. *Hazards and Hazardous Materials*. If it is determined the existing warehouse can be destroyed in all or in part, and/or in the general demolition and construction process, the EIR must address whether the structure contains hazardous materials (including, but not limited to asbestos, dust, lead-based paint) and, if so, how the community (and workers) will be protected to avoid the release of hazardous materials into the environment, and how those materials will be disposed of.

The EIR should examine the increased pollution and green-house gases generated by idling vehicular traffic as drivers wait to access the freeway and/or navigate the more crowded neighborhood.

F. *Population and Housing.* The EIR should address how the development of 330 small apartment units will address the City's Plan to accommodate housing needs for families.

The EIR should examine the impact of small rental units on our community since for-sale units increase ownership and buy-in to caring for our neighborhood. The EIR should study whether the Project should only contain small rental units rather than a mix of unit sizes from studios to three bedroom units and the impact of failing to accommodate a diverse mix of people from young professionals to families to retirees. The EIR should study whether the Project will be mapped for condominiums for future optionality.

G. *Public Services.*

Concerted efforts between the City and the Project, including consideration of subsidies, should be put toward securing basic services to the area, including a full-service grocery store and medical services.

Fifth Street should be improved to better reflect the entrance to our historic district. With no retail presence, this street is prime for increased crime and graffiti.

Pedestrian traffic can be increased with more ground level retail. The Project's parking structure should be wrapped with varied retail. The Project now proposes only 3000 square feet of retail. The EIR should examine whether this allotment is sufficient for two full blocks of development. Other projects have

'sold' our community on increased development with the promise of retail, which, has turned out to be illusory. Although most of the retail space checked the box for developers in delivering the square footage, most of the retail remains vacant. The layout of those spaces makes them functionally obsolete. The Project should be required to wrap the majority of its ground floor with retail at street level. These amenities are conducive to an active neighborhood and importantly, put more eyes on the street to improve public safety.

With the increased population, improvements should be focused under the freeway with the addition of better lighting.

III. *Conclusion.*

Brickhouse Lofts HOA welcomes new development so long as these concerns outlined here are adequately addressed in the EIR, including especially the environmental issues currently excluded from the study. As long-time owners of property in Jack London Square, we have demonstrated our commitment to our community. We hope the City and the Project will exhibit the same respect.

Very truly yours,

Brickhouse Lofts Board of Directors
Fred Morner, Pres.
Scott Winder, Treas.
Judith Ganz, Sect.
(Contact person: J. Ganz: jganzbx67@gmail.com.
510.306.6904)

EXHIBIT A

From: **dw stegman** dw.stegman@sbcglobal.net
Subject: Jackson Street Striping after repaving- FW: Request: 579402
Date: April 30, 2015 at 10:50 AM
To: Judith E. Ganz jganzbx67@gmail.com, [redacted]

DS

FYI....I had contacted the City after seeing several cars plow through 3rd and Jackson without stopping.

---------- Forwarded message ----------
From: "Fung, Phillip" <pfung@oaklandnet.com>
Date: Apr 29, 2015 4:50 PM
Subject: FW: Request: 579402
To: "THEONLYCOOKIE@GMAIL.COM" <THEONLYCOOKIE@gmail.com>
Cc:

Hello Deborah:
The reason for the striping not installed yet is that there's a contract dispute between the general contractor and the striping contractor at the moment. The City is doing our best to resolve this issue asap. Please contact me if you have any further questions.

Thank you.
Phillip Fung, PE
Civil Engineer, Project Delivery Division, Public Works Department
250 Frank Ogawa Plaza, Suite 4344
Oakland, CA 94612
(Direct) 510-238-2938 (Fax) 238-6633
pfung@oaklandnet.com

From: Cityworks
Sent: Wednesday, April 29, 2015 12:14 PM
To: Wong, Jason
Subject: Request: 579402

City of Oakland
Oakland Public Works Call Center

Service Request Information

Request Number:	**579402**
Description:	**Engineering Issues**
Problem Address:	**2ND ST & JACKSON ST**
Submitted To:	**REFER, (ENTER BELOW)**
Category:	OTHER
Date / Time Reported:	4/29/2015 12:10:02 PM
Service Priority:	3 - Medium
Initiated By:	WONG, JASON
Status:	Referred
Associated Cityworks Project:	
Council District:	CCD3
Police Beat:	01X

Caller Information:

Name	Phone	Date & Time Of Call	Customer Email
DEBORAH STEGMAN	Home: 415-999-5363 Work: Other: Cell:	4/17/2015 10:53:28 AM	THEONLYCOOKIE@GMAIL.COM

Related Work Orders:

Work Order Id	Category	Description	Submit To	WO Status

Q&A & Comments:

By WONG, JASON: 4/29/2015 12:10:02 PM
CITIZEN REPORTING THE CROSSWALKS HAVE NOT BEEN RE-STRIPED SINCE THE STREET HAS BEEN REPAVED, ON JACKSON ST., BETWEEN 2ND ST. AND 6TH ST.
Caller: STEGMAN, DEBORAH:
Q: What is the engineering issue?
A: Capital - Construction

This is a courtesy email to let you know that a member of the public requested service. If you are not a City of Oakland OPW Cityworks user, this email is our way of communicating it to you. If you are a City of Oakland OPW Cityworks user, log into Cityworks (http://cityworks/cwportal) to update the request. **DO NOT REPLY to this automated email.**

From: **dw stegman** dw.stegman@sbcglobal.net
Subject: Fwd: Service Request #485970 Jackson St and 6th St
Date: April 30, 2015 at 4:32 PM
To: Judith E. Ganz jganzbx67@gmail.com, Dina Winder dinawinder@gmail.com, Glynda Hull glynda@berkeley.edu

DS

Here's my latest emails to the City regarding the above mentioned intersection...
Deborah

---------- Forwarded message ----------
From: **DW Stegman** <theonlycookie@gmail.com>
Date: Mon, Apr 27, 2015 at 9:42 AM
Subject: Fwd: Service Request #485970 Jackson St and 6th St
To: opwcallcenter@oaklandnet.com

Please assist me with the status of the below as I have not heard anything from Kenneth Patton or Jamie Ramey since I have sent the below emails, starting last year and it seems that John Esperanza is not in this department any longer. This intersection is a MAJOR downtown Oakland connector to the freeway and deserves immediate attention to the below issues.

Thank you for looking into this for me as I hate to see the City of Oakland liable for possible lawsuits for allowing such a dangerous intersection to go unchecked.

Deborah Stegman
415.999.5363

---------- Forwarded message ----------
From: **DW Stegman** <theonlycookie@gmail.com>
Date: Mon, Apr 20, 2015 at 5:18 PM
Subject: Fwd: Service Request #485970 Jackson St and 6th St
To: "Patton, Kenneth" <kpatton@oaklandnet.com>, "Ramey, Jamie" <jramey@oaklandnet.com>, "Esperanza, John" <JEsperanza@oaklandnet.com>

Hello Again,

In addition to requesting the below items, the repaving of Jackson Street has created additional issues. My loft is right at the corner of 3rd and Jackson and several cars have driven right through this intersection as it is not striped yet.

This is an accident ready to happen so the sooner the better for striping Jackson Street! Also, you can also see from the barriers being run over at the corner of 6th and Jackson, that this issue continues to be a problem. Cars driving from Alameda drive straight through these temporary orange barriers and several are missing already from being installed last week.

PLEASE look into a left turn arrow at the 6th and Jackson intersection.

Thank you for your attention to these issues.
Best,
Deborah Stegman

---------- Forwarded message ----------
From: **DW Stegman** <theonlycookie@gmail.com>
Date: Wed, Apr 15, 2015 at 8:49 AM
Subject: Re: Service Request #485970 Jackson St and 6th St
To: "Patton, Kenneth" <kpatton@oaklandnet.com>, "Ramey, Jamie" <jramey@oaklandnet.com>, "Esperanza, John" <JEsperanza@oaklandnet.com>

Hello Everyone,

I writing again about the intersection at 6th and Jackson. After being involved in several close calls regarding cars darting from Alameda in the supposedly "do not change lanes" lane going directly onto the freeway, I feel the intensified request to please create a permanent barrier to close off cars who dart through this gap in the yellow barriers. Several of the barriers have been run over since they were installed and now the gap is wide enough for fire trucks (seen many times going through the gap), trucks and of course, cars. Vehicles going through this gap further create traffic tie ups at this intersection and also create a traffic hazard for cars in the correct lane going straight to 4th, 3rd and 2nd streets. I would hate to see lawsuits against the City of Oakland for its negligence in creating such an unsafe traffic situation at this intersection.

Secondly, although a left turn lane was added for this intersection for cars driving from Jack London to get onto the freeway, this intersection is a traffic nightmare for cars trying to turn left onto the freeway. I continue to sit for 15 minutes as only one or two cars make it through the light. A left turn arrow is desperately needed for this intersection! Please have one or two of your traffic engineers sit at this intersection during commute times as well as other times throughout the day to see for themselves how bad this intersection is. This intersection is a major connection from downtown Oakland, Chinatown, Jack London Square to get onto 880 north and 24 east. As Jack London continues to become more populated with more restaurants, residents and businesses, this intersection will only continue to grow in congestion. It is not a matter of if but when for a left turn light be required, so why not now?

attempting to turn left. Cars traveling at a high speed in the Alameda lane save time to avoid the light and go straight onto Jackson. This is not only a problem for oncoming traffic but for the cars behind the rouge car going straight as the cars behind are not expecting any stoppage in this lane. John witnessed this himself when he was scoping out the intersection. Is it possible to construct a more permanent barrier so that cars cannot suddenly switch lanes and dart into traffic where they should not be going? Probably as many as 6 yellow barriers have been destroyed by cars driving through this gap.

Thank you for your assistance with this important intersection as it is a vital link to 880, 24 and the route to San Francisco/Berkeley.

Best,
Deborah Stegman

---------- Forwarded message ----------
From: **Dw Stegman** <theonlycookie@gmail.com>
Date: Tue, Mar 4, 2014 at 6:14 PM
Subject: Re: Service Request #485970 Jackson St and 6th St
To: "Esperanza, John" <JEsperanza@oaklandnet.com>

Hello John,

Thank you so much for contacting me about this huge traffic problem in my neighborhood. Yesterday, I took a picture from my unit at 3rd and Jackson at around 5:30pm looking down Jackson towards 880. You can see the extensive backup for cars to turn left at Jackson and 6th. Granted, not all of these cars will turn left, but I have sat in this backup many times myself and often am sitting for 15 minutes to turn left as only 1 or 2 cars can get through this light. This is a critical intersection for Jack London as more restaurants and residents have added to this traffic tie up.

Also at the same intersection, the yellow barriers that were placed to separate the traffic coming from Alameda from the traffic heading to Jack London have been compromised with the gap that was left at the end of the barriers. I called the city about this last fall and three orange cones were placed to try to prevent cars from squeezing through the gap. Soon, these orange cones were driven over and destroyed. Also, the yellow barriers by the gap are getting destroyed by cars frequently driving through the gap. I even saw an Oakland Fire Truck, siren not on, squeezing through the gap to head straight to Jack London...I assume to get coffee at World Grounds at 3rd and Jackson! Many times, I have almost had a collision as I am turning left to get on 880 and a car all a sudden, darts from the gap to go straight. The gap at the end of the yellow barriers I would recommend to be closed with a more permanent solution so that cars cannot drive through. Also,

Thank you for your attention to this major traffic problem in downtown Oakland. I will look forward to your reply.

Deborah Stegman
415.999.5363 Cell

On Thu, Sep 11, 2014 at 11:32 AM, DW Stegman <theonlycookie@gmail.com> wrote:

> Hello Kenneth and Jamie,
>
> Thank you again for stripping the new left turn lane at the very busy entrance to 880 North/24 East! I am hoping that a new left turn light will also be installed as the back up continues at this intersection as during peak times, only a few cars can get through the light to turn left. Can we put a motion sensitive left turn arrow at this intersection?
>
> Also, the yellow barriers at this same intersection have largely been driven over and destroyed, leaving a huge gap for vehicles of any size to squeeze through. I counted 3 cars at one light lately leaving Alameda, taking the quick lane to avoid the traffic light and then at the last minute, turning left to go straight onto Jackson. This very dangerous situation not only impacts cars who are turning the corner at a high rate of speed to find a car stopped (waiting to turn left onto Jackson through the gap) but it also presents an extremely hazardous situation to cars turning left onto the freeway, not expecting a car to pop though the gap. Please consider an alternate, more permanent barrier between these two lanes and close the gap entirely so that cars cannot endanger the safety of others in this intersection.
>
> Thank you for your update and I look forward to hearing from you.
>
> Best,
> Deborah Stegman
> 415.999.5363
>
> On Tue, Aug 19, 2014 at 5:56 PM, DW Stegman <theonlycookie@gmail.com> wrote:
>
> > Hello Kenneth and Jamie,
> >
> > John offered your email addresses to connect about the below issue. I am ecstatic to see the left turn lane striped out at 6th and Jackson! I am forwarding the note for your information that I sent John to get an update on this issue I first raised last fall with the City of Oakland.
> >
> > I am also hoping the the barriers will get addressed with this intersection make over as the lane from Alameda has been completely compromised by cars driving through the now widened gap of the yellow barriers. As I mentioned below, several times I have been in close calls with cars as I am

when I am heading toward Jack London from Lake Merritt on Jackson, cars dart through the gap and I have had several close calls as I am not expecting cars to jump into my lane from the right to go straight to Jack London.

Thank you again for looking into this for our neighborhood. I would think there would be enough room for a left turn lane as cars are already forming two lanes on their own under 880 to turn left. Please feel free to call me if you have any questions- 415.999.5363. You will make many people very happy with a left turn lane and also by closing the gap with the barriers!

Best,
Deborah Stegman

On Tue, Mar 4, 2014 at 5:07 PM, Esperanza, John <JEsperanza@oaklandnet.com> wrote:

> Hello,
>
> My name is John and I'm with the City of Oakland Traffic Engineering Department. I will be the one working on your request for a left turn only lane along with Ade Oluwasogo and Si Lau, my supervisors.
>
> Currently, we are gathering traffic data for analysis to come to a conclusion with your request. We should have an idea of what is going to be done by the end of next week. I will keep you updated as the request develops.
>
> Thank you for your patience.
>
> John Patrick D. Esperanza
> City of Oakland
> Traffic Engineering Department

3/11/14

4th & Madison - 5/6/15 Scoping

→ Judith Gantz
  ↳ Wants Great Development
Items Addressed ↳ Traffic, Retail Attraction,
  Traffic → Jackson St. Issues
  Retail → More Retail
  Hist. → Retail Facade of Warehouse

→ Julia "Elvetia"
  ↳ Traffic/Parking
  ↳ Hist. Character (7 stories is too High)
  ↳ Retail is too small
    Need services

→ Naomi Schiff
  ↳ ACTS → Partial or whole Re-use of Bldg.
    ↳ North Facade Especially
  Demo → MH - Robust - More than documentation
    ↳ Facade Imp.
    ↳ Hist. Markers Refurbish
    ↳ Contextual Design
  Full discussion of impact to District.
  $

- MOORE

→ ATTENTION TO I-880 UNDERPASSES

→ TRAFFIC LOOK AT LANEY FLEA MARKET TRAFFIC

→ TRAFFIC - LOOK AT PRODUCE MARKET CONFLICT

→

= WAGNER

→ DOWNTOWN SPEC. PLAN ? COORDINATE ?

= [illegible]

4th & Madison

LPAB Scoping 5/11/15

PUBLIC

- NAOMI (AIA) → IMPACT ON THE NAT. REG. DISTRICT
  - → ALT. SHOW INCORPORATION OF BLDG IN PROJECT (JACKSON & 5th St. FACADES)
    - → SIGNIFIES ENTRY TO DISTRICT
  - → MIX PROGRAM WOULD NEED TO OFF SET DAMAGE TO DISTRICT (REMOVING ENTIRE CITY BLOCK)
    - → HOW TO SEGREGATE DIST?
    - → FACADE IMP. PROGRAM CONTRIB.
    - → RESTORE HIST. MARKERS
    - → ~~DSH~~
  - → DISTRICT IS BEING NIBBLED AWAY

BOARD COMMENTS

- ANDREAS
  - → VIABLE ALT W/ INC. OF FACADE

- BIRKHOLTZ (LOCALITY CALLS ABOUT POTENTIAL PROJECTS)
  - → SCALE OF BLDGS
    - → ALT W/ PRESERVATION
    - → RAIL REGULARITY & RETAIL AS MIX

EAST BAY
MUNICIPAL UTILITY DISTRICT

May 11, 2015

Peterson Z. Vollmann
City of Oakland, Bureau of Planning
250 Frank H. Ogawa Plaza, Suite 2114
Oakland, CA 94612

Re: Notice of Preparation of a Draft Environmental Impact Report – Jack London Square 4th and Madison, Oakland

Dear Mr. Vollmann:

East Bay Municipal Utility District (EBMUD) appreciates the opportunity to review the Notice of Preparation (NOP) of an Environmental Impact Report (EIR) for the Jack London Square 4th and Madison Project located in the City of Oakland (City). EBMUD has the following comments.

ALAMEDA-NORTH BAY FARM ISLAND PIPELINE CROSSINGS PROJECT

EBMUD is undertaking the Alameda-North Bay Farm Island Pipeline Crossings Project to improve water service reliability to the City of Alameda. This project includes three new submarine pipeline crossings using horizontal directional drilling, that will connect Alameda Island to the City of Oakland and North Bay Farm Island, as well as associated 24-inch steel pipeline in streets connecting the crossings to existing transmission pipelines. These crossings are sequentially planned for construction with the first submarine crossing scheduled to begin construction in 2018. The first crossing includes construction activity near the subject project, including a proposed horizontal directional drilling pit near Estuary Park in the City of Oakland and installation of approximately 3,300 feet of 24-inch pipeline in Madison Street between 2nd Street (or 3rd Street) and 8th Street; this pipeline length also includes extension down Oak Street and Fallon Road to Estuary Park. The Draft EIR for the Jack London Square 4th and Madison Project will need to evaluate the cumulative impacts of the two projects. EBMUD is preparing an EIR for the Alameda-North Bay Farm Island Pipeline Crossings Project and is scheduled to release an NOP by August 2015.

WATER SERVICE

EBMUD's Central Pressure Zone, with a service elevation range between 0 and 100 feet, will serve the proposed development. Offsite pipeline improvements, at the project sponsor's expense, may be required to serve the property depending on EBMUD's metering requirements and fire flow requirements set by the local fire department. The project sponsor should contact EBMUD's New Business Office and request a water

service estimate to determine the costs and conditions of providing water service to the proposed development. Engineering and installation of water mains and services require substantial lead time, which should be provided for in the project sponsor's development schedule.

EBMUD's Standard Site Assessment Report indicates the potential for contaminated soils or groundwater to be present within the project site boundaries. The project sponsor should be aware that EBMUD will not install piping or services 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 be hazardous to the health and safety of construction and maintenance personnel wearing Level D personal protective equipment. Nor will EBMUD install piping or services in areas where groundwater contaminant concentrations exceed specified limits for discharge to the sanitary sewer system and sewage treatment plants. The project sponsor must submit copies to EBMUD of all known information regarding soil and groundwater quality within or adjacent to the project boundary and a legally sufficient, complete and specific written remediation plan establishing the methodology, planning and design of all necessary systems for the removal, treatment, and disposal of contaminated soil and groundwater.

EBMUD will not design piping or services until soil and groundwater quality data and remediation plans have been received and reviewed and will not start underground work 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 project sponsor is insufficient, EBMUD may require the project sponsor to perform sampling and analysis to characterize the soil and groundwater that may be encountered during excavation, or EBMUD may perform such sampling and analysis at the project sponsor's expense. If evidence of contamination is discovered during EBMUD work on the project site, work may be suspended until such contamination is adequately characterized and remediated to EBMUD standards.

WASTEWATER SERVICE

EBMUD's Main Wastewater Treatment Plant (MWWTP) and interceptor system are anticipated to have adequate dry weather capacity to accommodate the proposed wastewater flows from this project and to treat such flows provided that the wastewater generated by the project meets the requirements of the EBMUD Wastewater Control Ordinance. However, wet weather flows are a concern. The East Bay regional wastewater collection system experiences exceptionally high peak flows during storms due to excessive infiltration and inflow (I/I) that enters the system through cracks and misconnections in both public and private sewer lines. EBMUD has historically operated three Wet Weather Facilities (WWFs) to provide primary treatment and disinfection for peak wet weather flows that exceed the treatment capacity of the MWWTP. Due to reinterpretation of applicable law, EBMUD's National Pollutant Discharge Elimination System (NPDES) permit now prohibits discharges from EBMUD's WWFs. Additionally, the seven wastewater collection system agencies that discharge to the EBMUD wastewater

interceptor system ("Satellite Agencies") hold NPDES permits that prohibit them from causing or contributing to WWF discharges. These NPDES permits have removed the regulatory coverage the East Bay wastewater agencies once relied upon to manage peak wet weather flows.

A federal consent decree, negotiated among EBMUD, the Satellite Agencies, the Environmental Protection Agency (EPA), the State Water Resources Control Board (SWRCB), and the Regional Water Quality Control Board (RWQCB), requires EBMUD and the Satellite Agencies to eliminate WWF discharges by 2036. To meet this requirement, actions will need to be taken over time to reduce I/I in the system. The consent decree requires EBMUD to continue implementation of its Regional Private Sewer Lateral Ordinance (www.eastbaypsl.com), construct various improvements to its interceptor system, and identify key areas of inflow and rapid infiltration over a 22-year period. Over the same time period, the consent decree requires the Satellite Agencies to perform I/I reduction work including sewer main rehabilitation and elimination of inflow sources. EBMUD and the Satellite Agencies must jointly demonstrate at specified intervals that this work has resulted in a sufficient, pre-determined level of reduction in WWF discharges. If sufficient I/I reductions are not achieved, additional investment into the region's wastewater infrastructure would be required, which may result in significant financial implications for East Bay residents.

To ensure that the proposed project contributes to these legally required I/I reductions, the lead agency should require the project applicant to comply with EBMUD's Regional Private Sewer Lateral Ordinance. Additionally, it would be prudent for the lead agency to require the following mitigation measures for the proposed project: (1) replace or rehabilitate any existing sanitary sewer collection systems, including sewer lateral lines to ensure that such systems and lines are free from defects or, alternatively, disconnected from the sanitary sewer system, and (2) ensure any new wastewater collection systems, including sewer lateral lines, for the project are constructed to prevent I/I to the maximum extent feasible while meeting all requirements contained in the Regional Private Sewer Lateral Ordinance and applicable municipal codes or Satellite Agency ordinances.

WATER CONSERVATION

The proposed project presents an opportunity to incorporate water conservation measures. EBMUD requests that the City include in its conditions of approval a requirement that the project sponsor comply with Assembly Bill 325, "Model Water Efficient Landscape Ordinance," (Division 2, Title 23, California Code of Regulations, Chapter 2.7, Sections 490 through 495) and "Landscape Water Conservation Section, Article 10 of Chapter 7" of the Oakland Municipal Code. 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.

If you have any questions concerning this response, please contact Timothy R. McGowan, Senior Civil Engineer, Major Facilities Planning at (510) 287-1981.

Sincerely,

David J. Rehnstrom
Manager of Water Distribution Planning

DJR:JRC:dks
sb15_076.doc

ALAMEDA
County Transportation Commission

1111 Broadway, Suite 800, Oakland, CA 94607 • 510.208.7400 • www.AlamedaCTC.org

May 18, 2015

Peterson Z. Vollmann
Bureau of Planning
City of Oakland
250 Frank H. Ogawa, Suite 2114
Oakland, CA 94612

SUBJECT: Response to Notice of Preparation of a Draft Environmental Impact Report (DEIR) for the Jack London Square 4th and Madison Project

Dear Mr. Vollmann,

Thank you for the opportunity to respond to the Notice of Preparation (NOP) of a Draft Environmental Impact Report (DEIR) for the Jack London Square 4th and Madison Project. The 2.07 acre project site is bounded by Jackson Street to the west, 5th Street to the north, Madison Street to the east, and 4th Street to the south. The Project proposed demolition of the existing office building and warehouse and construction of two buildings with approximately 330 apartments and 3,000 square feet of ground floor commercial.

We have reviewed the NOP and determined that this project is exempt from review under the Congestion Management Program Land Use Analysis Element as it will not generate 100 p.m. peak hour trips in excess of existing uses. We have no further comments.

Thank you for the opportunity to respond to this NOP. Please contact me at (510) 208-7428 or Daniel Wu of my staff at (510) 208-7453 if you have any questions.

Sincerely,

Tess Lengyel
Deputy Director of Planning and Policy

cc: Daniel Wu, Assistant Transportation Planner

DEPARTMENT OF TRANSPORTATION
DISTRICT 4
P.O. BOX 23660
OAKLAND, CA 94623-0660
PHONE (510) 286-5528
FAX (510) 286-5559
TTY 711
www.dot.ca.gov

Serious Drought.
Help save water!

May 18, 2015

ALA880722
ALA-880-PM 31.2
SCH# 2015042051

Mr. Peterson Vollmann
Planning Division
City of Oakland
250 Frank H. Ogawa Plaza, Suite 2114
Oakland, CA 94612

ER15-005 Jack London Square 4th & Madison Project – Notice of Preparation

Dear Mr. Vollmann:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the project referenced above. The proposed infill project would demolish the site's existing building and adjacent surface parking lot and construct two buildings of approximately 330 apartment units and 3,000 square feet of ground floor commercial. The project is located within one-half mile of the Lake Merritt Bay Area Rapid Transit District (BART) station. Interstate 880 (I-880) is within a 200-foot radius and there are I-880/I-980 on- and off-ramp intersections located between 5th Street, 6th Street, and Jackson Street.

The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. The Local Development-Intergovernmental Review Program reviews land use projects and plans to ensure consistency with our mission and state planning priorities of infill, conservation, and efficient development. To ensure a safe and efficient transportation system, we provide these comments consistent with the State's smart mobility goals that support a vibrant economy, and build communities, not sprawl. The following comments are based on the Notice of Preparation.

Lead Agency
As the lead agency, the City of Oakland (City) is responsible for all project mitigation. The identified lead agency contact and monitoring should be fully discussed for all proposed mitigation measures.

This information should also be presented in the Mitigation Monitoring and Reporting Plan of the environmental document. Required roadway improvements should be completed prior to issuance of the Certificate of Occupancy. Since an encroachment permit is required for work in the State right-of-way (ROW), and Caltrans will not issue a permit until our concerns are

adequately addressed, we strongly recommend that the City work with both the applicant and Caltrans to ensure that our concerns are resolved during the environmental process, and in any case prior to submittal of an encroachment permit application. Further comments will be provided during the encroachment permit process; please see the end of this letter for more information.

Traffic Impact Study

The environmental document should include an analysis of the travel demand expected from the proposed project. Early collaboration, such as submitting the traffic study prior to the environmental document, leads to better outcomes for all stakeholders. We are in the process of updating our *Guide for the Preparation of Traffic Impact Studies* (TIS Guide) for consistency with SB 743, but meanwhile recommend using the Caltrans TIS Guide for determining which scenarios and methodologies to use in the analysis, available at:
http://dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf

Please ensure that a Traffic Impact Study is prepared providing the information detailed below:

1. Vicinity map, regional location map, and a site plan clearly showing project access in relation to nearby State roadways. Ingress and egress for all project components should be clearly identified. Clearly identify the State right-of-way (ROW). Project driveways, local roads and intersections, car/bike parking, and transit facilities should be mapped.

2. Project-related trip generation, distribution, and assignment including per capita use of transit, rideshare or active transportation modes and vehicle miles traveled (VMT) reduction factors. The assumptions and methodologies used to develop this information should be detailed in the study, utilize the latest place-based research, and be supported with appropriate documentation.

3. Schematic illustration of walking, biking and auto conditions at the project site and study area roadways, trip distribution percentages and volumes as well as intersection geometrics, (i.e., lane configurations for AM and PM peak periods) for existing, existing plus project, 2035 cumulative and 2035 cumulative plus project scenarios. Calculation of cumulative traffic volumes should consider all traffic-generating developments, both existing and future, that would affect study area roadways and intersections. Potential safety issues for all road users should be identified and fully mitigated.

4. The project site building potential as identified in the General Plan. The project's consistency with both the Circulation Element of the General Plan and the Congestion Management Agency's Congestion Management Plan should be evaluated.

5. Mitigation for any roadway sections or intersection with increasing VMT should be identified. Impacts on pedestrians and bicyclists resulting from any projected VMT increases, or secondary impacts from traffic mitigation, should be analyzed. The analysis should describe any pedestrian and bicycle mitigation measures and safety countermeasures that would be needed as a means of maintaining and improving access to transit facilities, and reducing vehicle trips and traffic impacts to state highways.

Transportation Impact Fees

Please identify any transportation impact fees to be used for project mitigation. Mitigation may include fair share contributions to the regional fee program as applicable and should support the use of transit and active transportation modes. The Alameda County Transportation Commission *2014 Transportation Expenditure Plan* has listed investments including the I-880 Broadway-Jackson Interchange Improvements Project currently under review. In addition, funds are included for I-880 Broadway-Jackson multimodal transportation and circulation improvements at Jack London Square.

The project's fair share contribution, financing, scheduling, implementation responsibilities associated with planned improvements on Caltrans right-of-way (ROW) should be listed, in addition to identifying viable funding sources per General Plan Guidelines.

We recognize the City is in-process of a Citywide Impact Fee Nexus Study and Implementation Strategy. As the City experiences interest in major development projects that require transportation mitigation measures in proportion to the development size and impact, Caltrans encourages the City to ensure a sufficient allocation of contributions toward regional transit improvements in order to better mitigate and plan for the impact of future cumulative growth on the regional transportation system.

Multimodal Planning

As suggested above, please consider pedestrian, bicycling, and transit performance or quality of service measures and modeling as a means of estimating the project impacts to these modes and evaluating mitigation measures and tradeoffs. The analysis should describe any pedestrian and bicycle infrastructure improvements this project will construct as part of its mitigation. Access management considerations should be multimodal and pay special attention in the vicinity of the I-880/I-980 interchange areas that may be a challenge to pedestrians and bicyclists.

Vehicle Trip Reduction

The Metropolitan Transportation Commission (MTC) Regional Transportation Plan (RTP)/Sustainable Community Strategy (SCS) identifies transportation system performance targets including the increase of non-auto mode share by 10 percentage points and a decrease auto VMT per capita by 10 percent. As the project site is located within the local Priority

Development Area near transit, all multimodal mitigation measures should be explored, including Transportation Demand Management (TDM) measures, to contribute to these targets.

These TDM policies could include lower parking ratios, car-sharing programs, bicycle parking and showers for employees, and providing transit passes to residents and employees, among others. We recommend the City refer to '*Reforming Parking Policies to Support Smart Growth*', an MTC study funded by Caltrans for sample parking ratios and strategies that support compact growth and Transit Oriented Development. The Study is available at the MTC webpage below: http://www.mtc.ca.gov/planning/smart_growth/parking/parking_seminar/Toolbox-Handbook.pdf

Encroachment Permit

Please be advised that any work or traffic control that encroaches onto the State ROW requires an encroachment permit that is issued by Caltrans. Where construction-related traffic restrictions and detours affect State highways, a Transportation Management Plan or construction TIS may be required. Traffic-related mitigation measures should be incorporated into the construction plans prior to the encroachment permit process. To apply, a completed encroachment permit application, environmental documentation, and five (5) sets of plans clearly indicating State ROW must be submitted to the following address: David Salladay, District Office Chief, Office of Permits, California Department of Transportation, District 4, P.O. Box 23660, Oakland, CA 94623-0660. See the following website for more information: http://www.dot.ca.gov/hq/traffops/developserv/permits

Should you have any questions regarding this letter or require additional information, please contact Sherie George at (510) 286-5535 or by email at sherie.george@dot.ca.gov.

Sincerely,

PATRICIA MAURICE
Acting District Branch Chief
Local Development - Intergovernmental Review

c: State Clearinghouse

APPENDIX B

Historic Resources –
Building Permit Records

AFFIDAVIT

I hereby CERTIFY that the plans and specifications used in making the application hereon for a Building Permit were prepared by: Jesse Rosenwald

Address 525 Market St. S.F.

and that the Laws of the State of California governing the practice of Architecture, Civil and or Structural Engineering have not been violated in so doing.

Jesse Rosenwald

Address 525 Market St. S.F

Date 2-3-37 Attest

AFFIDAVIT

I hereby make affidavit that the information contained in this application and on the plans and specifications is true and contains a correct description of the proposed work. All said work is to be done in accordance with the State Housing Act. I am authorized to act as agent for the owner.

Subscribed and sworn to before me this

day of 19

Deputy City Clerk

REPORT OF INVESTIGATOR

PLANS CHECKED

Zoning
Setback Line
Fire Limits
Area Limits
Court Areas
Height Limit
Garage Area
Ventilation
Chimneys and Flues
Type of Frame
Exterior Walls
Floor Construction
Soil
Foundation
Retaining Walls
Engineering

APPROVED: Plan Checker

No. A66275

APPLICATION

Brick or Masonry Building

S and W Fine Foods, Inc. Owner

John F. Tulloch Builder

For permit to erect a building located at

426 Jackson St

~~Corner~~ Side of ~~St.~~ Ave.

Give Location of Job: Entire Block of Jackson

Between 4th St. and 5th St.

~~Feet of~~ Ave.

Cost $60,000 Fee $90

~~$418~~

~~Filed 68,418~~

ENTERED

ENTERED MAY 17 1937 BUREAU OF PERMITS & LICENSES

Permission is hereby granted to erect, alter or repair the building described in this application in accordance with the Building Ordinances of the City of Oakland, and to the satisfaction of the Building Inspector.

Approved E. U. ROUSSELL Building Inspector

By

Issued

2-18-37 - Excavating — H
3-8-37 - Footings OK — H
F.O.K. 4-13-37 — H
4-23-37 — F OK — H
5-17-37 — RS OK — H
6-3-37 — R. ... OK — H
R.O.K. 6-7-37 — H

W.O.K.

L.O.K.

PLASTER C.K.

FINAL O.K. 6-26-37 — H

WRITE IN INK—FILE TWO COPIES

APPLICATION FOR A BUILDING PERMIT

BRICK OR MASONRY BUILDING

Application is hereby made to the Building Department of the City of Oakland for permission to build a

one story ~~room, brick~~, concrete, ~~tile~~ warehouse

at 426 Jackson Street

in accordance with the plans and specifications filed herewith, and which plans and specifications are to be considered a part of this application. Entire cost of building (this must include everything necessary for the complete construction of the building). $ 60,000 ae/100

Building to be occupied as a Warehouse & office

Size of lot 200 by 225 feet.

Size of proposed building 200 feet by 225 Extreme height of building 18'-0" ± feet.

What class of building is proposed? Class "C"

Is there any other building on the same lot? No

Are piles or other special form of foundation to be used? No.

Size of foundation As per drawings

Exterior wall construction of Concrete

Thickness of wall 6"

Height of wall to roof 13'-0" & 14'-3"

Interior construction of Wood

Floor constructed of Concrete

Roof construction of Wood

Roof covering of Asphalt, Felt, Gravel

Is interior of building to be plastered? Partly

Are there any elevators? No

Is sidewalk space to be excavated? No

Is there a garage in the building? No

City Manager Permit Number

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgements, costs and expences which may in any wise accrue against the City in consequence of the granting of this permit, or from the use of occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions of this permit, and provisions of the Ordinances of the City of Oakland.

Contractor John T. Sullock

Address

Consulting Engineer Jesse Rosenwald

Address 525 Market St San Francisco Douglas 7999

Owner Sand W Fine Foods Inc.

Address Third & Alice St. Oakland

By Jesse Rosenwald Consulting Engineer

Ordinance 1485 N.S., Section 86: "When a building is ready for lathing or sheathing on the inside, the Building Inspector shall be notified. The rough STUDDING SHALL NOT BE COVERED or in any way concealed from view until inspection has been made and the written approval of the Building Inspector obtained."

The department will call up telephone No. Douglas 7999 if any alterations or changes are necessary on the plans submitted.

State License No.

City License No.

PLOT PLAN

REPORT OF INVESTIGATOR

No. A70412

APPLICATION

Permit for alterations

At N W Corner Seventh & Jackson st.
(House Number)
#426 Jackson st

Safeway Stores Inc Owner

Frederick Anderson Contractor

Cost $ 1000.00 Fee $ 4.00

NOV 18 1937

Issued

ENTERED NOV 19 1937 BUREAU PERMITS & LICENSES

Permission is hereby granted to erect, alter or repair the building described in this application in accordance with the Building Ordinances of the City of Oakland, and to the satisfaction of the Building Inspector.

E. U. ROUSSELL
Building Inspector

Approved

By WB

Issued

F. O. K.

R. O. K. 11-30-37

W. O. K.

L. O. K.

PLASTER O. K.

FINAL O. K. Jan 15/38

PLANS CHECKED

Zoning
Setback Line
Fire Limits
Area Limit
Court Areas
Height Limit
Garage Area
Ventilation
Chimneys and Flues
Type of Frame
Exterior Walls
Floor Construction
Soil
Foundation
Retaining Walls
Engineering

APPROVED: Plan Checker

AFFIDAVIT

...eby make affidavit that the information ...ed in this application and on the plans ...ecifications is true and contains a cor... ...scription of the proposed work. All said ...is to be done in accordance with the ...Housing Act. I am authorized to act as ...for the owner.

...ribed and sworn to before me this

day of 193

Deputy City Clerk

WRITE IN INK—FILE TWO COPIES

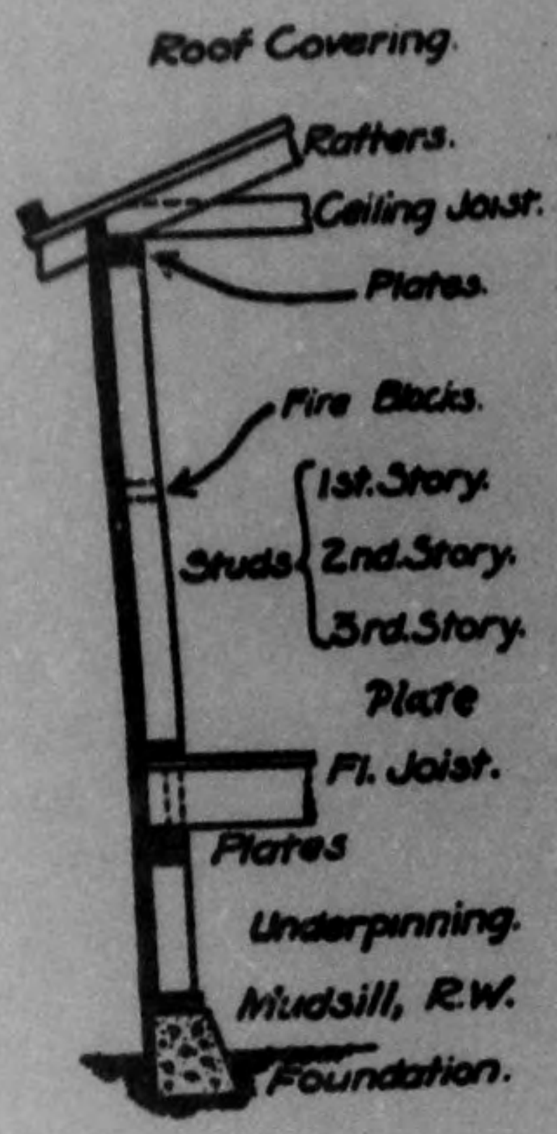
APPLICATION FOR A BUILDING PERMIT

APPLICATION IS HEREBY MADE TO THE BUILDING DEPARTMENT OF THE CITY OF OAKLAND FOR PERMISSION TO DO THE FOLLOWING WORK AT

Number North West corner Fourth and Jackson Sts. Street Ave

WRITE PLAINLY FULL DESCRIPTION OF WORK TO BE DONE
All new construction must be described as to size, span and spacing

Installation of 1" Terra Cotta Partitions - 12' high forming Toilet Room and Wet Room



4" hollow tile

Entire cost of work
(This must include everything necessary for complete construction of work) $ 1000.00

Building now used as Warehouse

Building to be used as Warehouse. By

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

Contractor A. Frederick Anderson. (If any)
Address 1093 Longridge Road.

Designer
Address

Owner Safeway Stores
Address Fourth and Jackson sts.
By A. Frederick Anderson.

Ordinance 1485 N.S., Section 86: "When a building is ready for lathing or sheathing on the inside, the Building Inspector shall be notified. The rough STUDDING SHALL NOT BE COVERED or in any way concealed from view until inspection has been made and the written approval of the Building Inspector obtained."

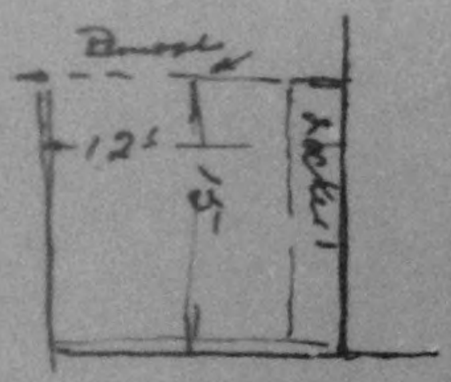
The department will call up Telephone No. if any alterations or changes are necessary on the plans submitted.

STATE LICENSE NO. 1543 CITY LICENSE NO.

Form C15—194—I C P Co—7568

160

PLOT PLAN



REPORT OF INVESTIGATOR

No. B 1942

APPLICATION

Permit for Alter.

At 430 Jackson St
(House Number)

L. & W. Lee Owner

B. F. Lee Contractor

Cost $400 Fee $2.00

APR -8 1944

Issued

FEE PAID
OAKLAND
BUILDING
DEPT.

F. O. K.

R. O. K.

W. O. K.

L. O. K.

PLASTER O. K.

FINAL O. K. 6/12/44

AFFIDAVIT

I hereby make affidavit that the information contained in this application and on the plans and specifications is true and contains a correct description of the proposed work. All said work is to be done in accordance with the State Housing Act. I am authorized to act as agent for the owner.

Subscribed and sworn to before me this

day of 194

Deputy City Clerk

PLANS CHECKED

Zoning
Setback Line
Fire Limits
Area Limit
Court Areas
Height Limit
Garage Area
Ventilation
Chimneys and Flues
Type of Frame
Exterior Walls
Floor Construction
Soil
Foundation
Retaining Walls
Engineering

APPROVED: Plan Checker

Permission is hereby granted to erect, alter or repair the building described in this application in accordance with the Building Ordinances of the City of Oakland, and to the satisfaction of the Building Inspector.

Approved E. U. ROUSSELL
Chief Building Inspector

By

THIS PERMIT DOES NOT COVER ANY ELECTRICAL OR PLUMBING WORK

WRITE IN INK—FILE TWO COPIES

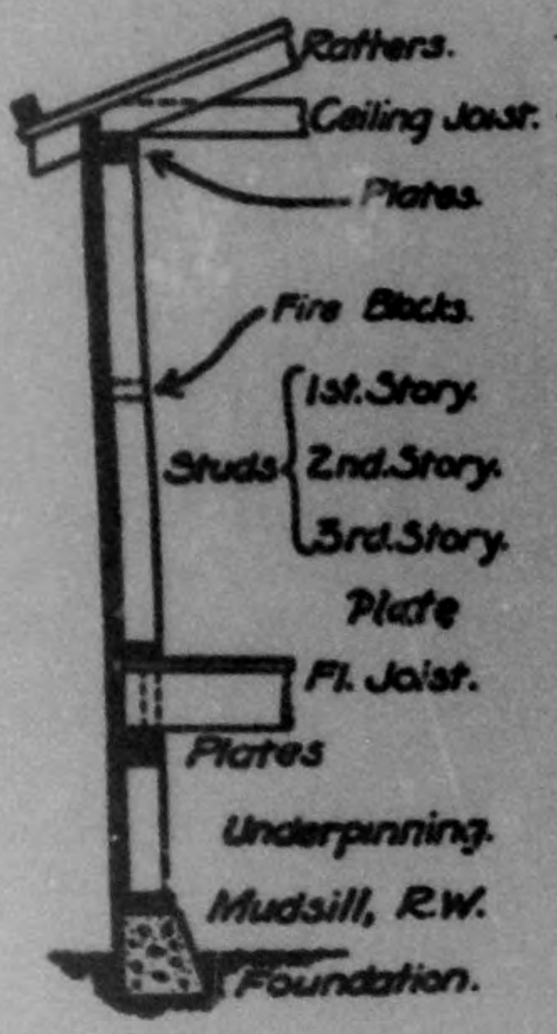
APPLICATION FOR A BUILDING PERMIT

APPLICATION IS HEREBY MADE TO THE BUILDING DEPARTMENT OF THE CITY OF OAKLAND FOR PERMISSION TO DO THE FOLLOWING WORK AT

Number 430 Jackson Street Ave.

WRITE PLAINLY FULL DESCRIPTION OF WORK TO BE DONE
All new construction must be described as to size, span and spacing

Alteration Ladies locker + dressing room addition 12 - 15'-0 in S + W warehouse (Interior alterations only)



Roof Covering.

Rafters. 2 x 4 16 OC

Ceiling Joist. " "

Plates.

Fire Blocks. Stud 2 x 4 " "

1st. Story.

Studs 2nd. Story.

3rd. Story.

Plate Plate - bolt to Concrete floor

Fl. Joist.

Plates

Underpinning.

Mudsill, R.W.

Foundation.

Entire cost of work
(This must include everything necessary for complete construction of work) $ 4000

Building now used as Storage

Building to be used as Storage By S + W Employee

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

S + W Co.

Contractor Roy Flee (If Any) Owner Mr Hasenkamp Manager

Address 2813 Wimpole Ave Address 430 Jackson St

Architect By R-Flee

Address

Ordinance 1485 N.S., Section 86: "When a building is ready for lathing or sheathing on the inside, the Building Inspector shall be notified. The rough STUDDING SHALL NOT BE COVERED or in any way concealed from view until inspection has been made and the written approval of the Building Inspector obtained."

The department will call up Telephone No. KE 2,1684 if any alterations or changes are necessary on the plans submitted.

STATE LICENSE No. 46746 CITY LICENSE No. 2073

Form C19

INSPECTED

No. B19562

F. O. K.

PLOT PLAN

REPORT OF INVESTIGATOR

APPLICATION

R. O. K. 2-2-48 RVeb

Permit for Alterations

At SW Cor. 5th & Jackson Sts.
(House Number)

W. O. K.

430 Jackson st

S & W Fine Foods Inc. Owner

C .H. Threms Contractor

L. O. K.

Cost $ 1100.00 Fee $ 9.00

Issued JAN 26 1948

PLASTER O. K.

FEE PAID TREASURER'S OFFICE JAN 30 1948 CITY OF OAKLAND

FINAL O. K. 2-25-48 RVeb

AFFIDAVIT

I hereby make affidavit that the information contained in this application and on the plans and specifications is true and contains a correct description of the proposed work. All said work is to be done in accordance with the State Housing Act. I am authorized to act as agent for the owner.

Subscribed and sworn to before me this

____ day of ____ 194____

Deputy City Clerk

PLANS CHECKED

Zoning
Setback Line
Fire Limits
Area Limit
Court Areas
Height Limit
Garage Area
Ventilation
Chimneys and Flues
Type of Frame
Exterior Walls
Floor Construction
Soil
Foundation
Retaining Walls
Engineering

APPROVED: ____ Plan Checker

Permission is hereby granted to erect, alter or repair the building described in this application in accordance with the Building Ordinances of the City of Oakland, and to the satisfaction of the Building Inspector.

Approved

E. U. ROUSSELL
Chief Building Inspector

By ____

THIS PERMIT DOES NOT COVER ANY ELECTRICAL OR PLUMBING WORK

WRITE IN INK—FILE TWO COPIES

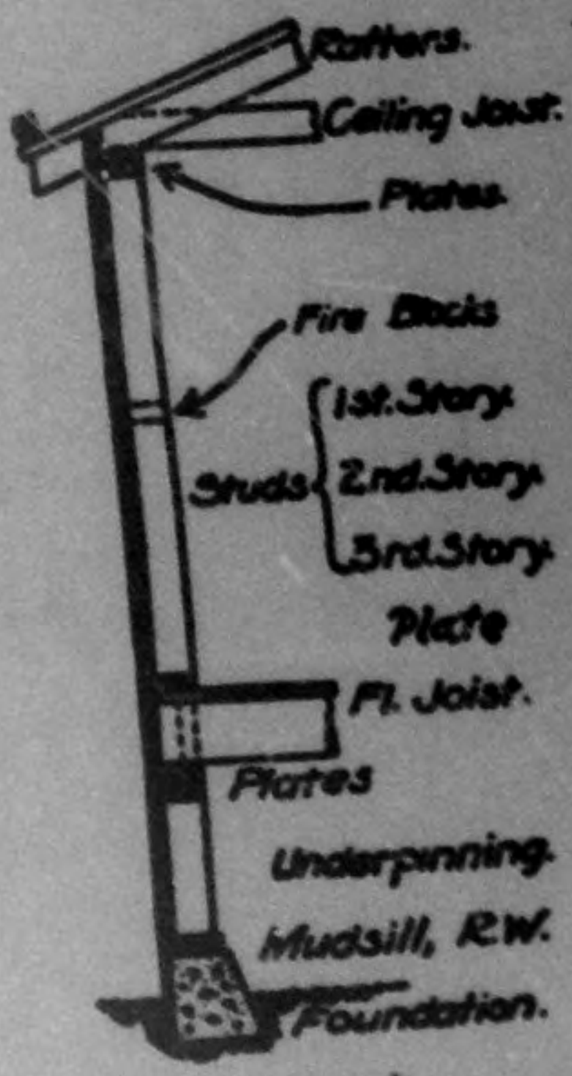
APPLICATION FOR A BUILDING PERMIT

APPLICATION IS HEREBY MADE TO THE BUILDING DEPARTMENT OF THE CITY OF OAKLAND FOR PERMISSION TO DO THE FOLLOWING WORK AT

Number South West Corner Fifth & Jackson Streets 430 Jackson Street Ave.

WRITE PLAINLY FULL DESCRIPTION OF WORK TO BE DONE
All new construction must be described as to size, span and spacing

Const new Lunch Room approx size 11'-0" x 20'-0" 2 x 4 Studs, T & G boards one side, Sheetrock one side, use existing floor and 2 walls. Remove one partition, 2 x 4 studs approx 12'-0" long, repair asphalt tile floor. Const new partition of 2 x 4 stude, sheetrock 2 sides, approx 9'-6" long.



Roof Covering.	
Rafters.	
Ceiling Joist.	2 x 4 - 16" ctrs.
Plates.	2 - 2 x 4
	2 x 4
Fire Blocks	2 x 4
Studs 1st. Story	none
Studs 2nd. Story	none
Studs 3rd. Story	2 x 4
Plate	
Fl. Joist.	
Plates	
Underpinning.	
Mudsill, R.W.	
Foundation.	

Entire cost of work (This must include everything for complete construction of work) $1100.00

Building now used as Office & Whse

Building to be used as Same Rys & W Fine Foods Inc.

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

Contractor C. H. Threms

Address 1021 (1/2) - 6th Avenue

Architect

Address

Owner S & W Fine Foods Inc.

Address Fifth & Jackson Streets

By C. H. Threms

Ordinance 1485 N.S., Section 86: "When a building is ready for lathing or sheathing on the inside, the Building Inspector shall be notified. The rough STUDDING SHALL NOT BE COVERED or in any way concealed from view until inspection has been made and the written approval of the Building Inspector obtained."

The department will call up Telephone No. ST TH 4 - 9608 if any alterations or changes are necessary on the plans submitted.

STATE LICENSE No. 500 CITY LICENSE No. 14318

Form C18

PLOT PLAN

Inspection No. B70155

F. O. K.

APPLICATION FOR A PERMIT TO ALTER, REPAIR, ADD TO OR WRECK A BUILDING

R. O. K.

Case No. ..... Plan. Com.

R. G. Lucas Co Owner

John J Moore Co Contractor

Job Location

No. 430 Jackson St

W. O. K.

Cost $ 10000 Fee $ 46.50

Cost of work to be checked before final inspection

L. O. K.

Date AUG 21 1957

TREASURER

PAID

AUG 23 1957

CITY OF OAKLAND

PLASTER O. K.

Permission is hereby granted to alter, repair, add to or wreck the building or structure described in this application in accordance with Ordinance No. 2745 C.M.S., and all other Ordinances related thereto in the City of Oakland, and to the satisfaction of the Building Inspector. LAWRENCE A. LANE

FINAL O. K. 10-23-57-WW

"WARNING: This proposed construction may be in violation of National Production Authority Orders, or other Federal restrictions or prohibitions. You are cautioned to consult with appropriate Federal authorities before commencing the work authorized by this permit.

Approved [redacted] *Building Inspector.*

By WW

Above Warning Noted: .....

Permittee

Case No. _____ Plan Com.

City Manager's Permit _____

WRITE IN INK — FILE TWO COPIES

Application to Alter, Repair, Add to Or Wreck a Building

CITY OF OAKLAND, BUILDING DEPARTMENT

Number 5th & Jackson Streets, Oakland - #30 Jackson St Avenue Street

1. Type of Building I, II, (III,) IV, V
2. Type of Occupancy A, B, C, D, E, (F,) G, H, I, J
3. City Zone A, B, C, D, E, F, G, (H,) I
4. Fire Zone 1, (2,) 3, 4

For Office Use Only

5. If in Port Area, file three applications.
6. Present use of building OFFICES & WAREHOUSE Families _____ Rooms _____
   (Store, Dwelling, Apartment House, Hotel or other purposes)
7. Proposed use of Building OFFICES & WAREHOUSE Families _____ Rooms 13
   (Store, Dwelling, Apartment House, Hotel or other purposes)
8. State how many buildings now on lot and give use of each one - offices and warehouse
   (Store, Dwelling, Apartment House, Hotel or other purposes)
9. Size of existing Building _____ x _____ Number of stories high one
10. Describe briefly all proposed construction work: interior painting and decorating, minor plumbing and electrical, heating and ventilation, addition of one new room, new office partitions & display rooms - one toilet room - 1/2 hr. sheetrock

11. Footing: Width _____ Depth in Ground _____ Width of Wall _____ Mudsill _____
    Size of Studs 2x4 @ 16" o.c. Size of Floor Joists _____ @ _____
    Size of Rafters _____ @ _____ Roof Covering _____

12. **VALUATION OF PROPOSED WORK:**

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION

Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon, $ 10,000.00

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

Contractor (if any) THE JOHN J. MOORE CO.

Address 959 - 33d Street

Certified Architect _____ State License No. _____

Licensed Engineer _____ State License No. _____

I hereby acknowledge that I have read this application and state that the above is correct and agree to comply with all City ordinances and State laws regulating building construction.

Signature of Owner R. C. Lucas Co

Address #30 Jackson St

Authorized Agent _____

Do not lath, sheath, or otherwise conceal any portion of walls or ceiling until the inspection card has been signed by the ELECTRICAL and PLUMBING INSPECTORS. Following the approval of the ELECTRICAL and PLUMBING INSPECTORS, call the BUILDING INSPECTOR before proceeding further with the work.

The Department will call up Telephone No. OL 3-7373 if any alterations or changes are necessary on the plans submitted.

CONTRACTOR'S STATE LICENSE No. 74172 AND CITY LICENSE No. 21947

If the work herein described is not commenced within sixty (60) days after the issuing of this permit, this permit becomes null and void as provided in Section 19 of Part 1 of Ordinance 2745 C.M.S.

Form 325 165

PLOT PLAN

Inspected No. B83426

APPLICATION FOR A PERMIT TO ALTER, REPAIR, ADD TO OR WRECK A BUILDING

Case No. ....
Plan. Com.

R. C. Lucas Owner

Aladdin Heat Contractor

Job Location

No. 430 Jackson St

Cost $ 2000- Fee $ 14 00

Checking Fee 3 00

Total Fee $ 17 00

TREASURER PAID SEP 11 1959 CITY OF OAKLAND

Cost of work to be checked before final inspection

Date

Permission is hereby granted to alter, repair, add to or wreck the building or structure described in this application in accordance with Ordinance No. 5419 C.M.S., and all other Ordinances related thereto in the City of Oakland, and to the satisfaction of the Building Inspector.

Approved

LAWRENCE A. LANE,
Building Inspector.

By Em

F. O. K.

R. O. K.

W. O. K.

L. O. K.

PLASTER O. K. No card for inspection

FINAL ~~O. K.~~ 15-5-59 Mb

Case No. _____ Plan. Com.

City Manager's Permit _____

WRITE IN INK — FILE TWO COPIES

Application to Alter, Repair, Add to Or Wreck a Building

CITY OF OAKLAND, BUILDING DEPARTMENT

Number 430 Jackson St Avenue Street

1. Type of Building I, II, (III), IV, V
2. Type of Occupancy A, B, C, D, E, (F), G, H, I, J
3. City Zone A, B, C, D, E, F, G, H, (I)
4. Fire Zone 1, (2), 3, 4
5. If in Port Area, file three applications.

For Office Use Only

6. Present use of building WAREHOUSE (Store, Dwelling, Apartment House, Hotel or other purposes) Families ____ Rooms ____
7. Proposed use of Building WAREHOUSE (Store, Dwelling, Apartment House, Hotel or other purposes) Families ____ Rooms ____
8. State how many buildings now on lot and give use of each ONE (Store, Dwelling, Apartment House, Hotel or other purposes)
9. Size of existing Building ____ x ____ Number of stories high ONE
10. Describe briefly all proposed construction work: RELOCATE EXISTING LOADING CANOPY 3'-0" HIGHER

11. Footing: Width ____ Depth in Ground ____ Width of Wall ____ Mudsill ____
    Studs ____ @ ____ Floor Joists ____ @ ____ Ceiling Joists ____ @ ____
    Rafters ____ @ ____ Roof Covering ____

12. **VALUATION OF PROPOSED WORK:**

Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon, $ 2000.00

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

Contractor (if any) Pacific Steel Co.

Address 1111 West Ave 137th S.L.

I hereby acknowledge that I have read this application and state that the above is correct and agree to comply with all City ordinances and State laws regulating building construction.

Signature of Owner R. C. Lucas Co.

Address 430 Jackson St. Oak.

Certified Architect ____ State License No. ____

Licensed Engineer ____ State License No. ____

Authorized Agent Harold Jue

Do not lath, sheath, or otherwise conceal any portion of walls or ceiling until the inspection card has been signed by the ELECTRICAL and PLUMBING INSPECTORS. Following the approval of the ELECTRICAL and PLUMBING INSPECTORS, call the BUILDING INSPECTOR before proceeding further with the work.

The Department will call up Telephone No. TE 7-6711 if any alterations or changes are necessary on the plans submitted.

CONTRACTOR'S STATE LICENSE No. 614 AND CITY LICENSE No. 12628

If the work herein described is not commenced within one hundred twenty (120) days after the issuing of this permit, this permit becomes null and void as provided in Section 302(d) of Part I of Ordinance 3119 C.M.S.

529 9 11 57

FOR OFFICE USE ONLY

HOUSING DIVISION
FIRE MARSHAL APPROVAL
CITY MANAGER PERMIT NO.
MOVING PERMIT NUMBER
PORT OF OAKLAND APPROVAL
PLUMBING PERMIT NO.
HEALTH DEPT. APPROVAL
ZONING OR PLANNING NO.
BOARD OF EXAM. & APPEALS ITEM NO. DATE
HOUSING ADVISORY & APPEALS RES. NO.

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND
WRITE IN INK - FILE ALL COPIES Inspect

DATE MAY 5/22/62 C 2216
DATE ISSUED MAY 22 1962 PERMIT NO.

APPLICATION FOR PERMIT TO:

ALTER ADD TO NEW CONSTR.
REPAIR WRECK OTHER

JOB LOCATION 430 Jackson ST
OWNER'S NAME P. C. Lucas
OWNER'S ADDRESS 6075 Manchester Dr
OWNER'S PHONE NO. OL 2-9265

FIELD CHECK BY VWG DATE 5-22-62
Approved YES NO
REMARKS (conditions noted)

430 JACKSON ST.

VALUE: $ 150 —
FEES: General Fee $ 3 —
Checking Fee $
TOTAL FEES $ 3 —

ADDITIONAL COST: $
Add'l Fee $
Date
Add'l Checking Fee $

TOTAL VALUE: $
TOTAL FEES $

PLAN FILED Yes No ✓ SURVEYS FILED Yes No ✓
MAP NO. TRACT NAME/NO.
TYPE OF BUILDING I II III IV V H.T. 1 hr. N
OCCUPANCY GROUP A B C D E F G H I J DIV. 1 2 3 4 5
ZONING DISTRICT AA A B CC C D E F G H I S-1 L T UR
FIRE ZONE 1 2 3
PRIOR CERTIFICATE OF OCCUPANCY NO. DATE

NEW CONSTRUCTION ADDITION ALTERATION REPAIR

Size of new building x — Number of Families
Height to highest point — Size of Lot x
No. of Stories — Material of Exterior Walls
Specific type of Occupancy
State how many buildings now on lot and give use of each

Present use of building Warehouse — Families Rms.
Proposed use of building Same Families Rms.
Size of existing building x Number of stories high One

Describe briefly all proposed construction work To construct two partitions 12 & 16 ft. in length 10' high. 2x4 studding, 5/8" sheetrock both sides.

Footing Width Depth in Ground Width of Wall Mudsill
Studs x @ ctrs. Floor Joists x @ ctrs. Ceiling Joists x @ ctrs.
Rafters x @ ctrs. Roof Covering

VALUATION OF PROPOSED WORK:
Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon, $ 150 —

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

GENERAL INSTRUCTIONS: If the work herein described is not commenced within one hundred twenty (120) days after the issuing of this permit, or if the work is suspended or abandoned at any time after the work is commenced for a period of one hundred twenty (120) days, this permit shall expire by limitation and become null and void as provided in the Oakland Building Code.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: LAWRENCE A. LANE
Building Inspector
By

CONTRACTOR: (if any) Certified Architect
Address
Phone No. Licensed Civil Engineer
State License No. City License No.

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

P. C. Lucas
Signature of Applicant

TO BE SIGNED ONLY WHEN ISSUED TO OWNER.

I hereby certify that I am the applicant for a Building Permit, and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmens compensation insurance.

Signature of Owner

DEPARTMENT COPY
FORM 139-A - 3-60

FOR INSPECTIONS TELEPHONE TE 2-2600, LOCAL 301

APPROVAL REQUIRED BY STREET AND ENGINEERING DEPARTMENT:

There are no PROPOSED STREET OPENINGS, PUBLIC EASEMENTS OF RECORD

or_____

in this Department which are in conflict with this application.

REMARKS: _____

_____

STREET AND ENGINEERING DEPARTMENT

By_____ Date_____

FORMS OK

LATH OK

BENCH OK

PLASTER OK

FINAL OK 9-7-62

WIRE OK

INSPECTOR OK

PLOT PLAN

TREASURER

MAY 23 1962

CITY OF OAKLAND

414 - JACKSON ST.

FOR OFFICE USE ONLY

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND
WRITE IN INK - FILE ALL COPIES

Inspected
C22300

VALUE:
$ 750.00

Address Fee $
General Fee $ 7.50
Checking Fee $

DATE FILED APR 21 1965
PERMIT NO.
DATE ISSUED

TOTAL FEES $ 7.50

APPLICATION FOR PERMIT TO:

ALTER ____ ADD TO ____ NEW CONSTR ____
REPAIR ____ WRECK ____ OTHER ____

JOB LOCATION 414 Jackson
OWNER'S NAME Safe Way Stores
OWNER'S ADDRESS Same
OWNER'S PHONE NO. 414-474

ADDITIONAL COST:
$
Date
Add'l Fee $
Add'l Checking Fee $

TOTAL VALUE:
$
TOTAL FEES $

FIELD CHECK BY ____ DATE ____
NO. ____
Approved YES ____
REMARKS (conditions noted)

SURVEYS FILED Yes ____ No ✓
PLAN FILED Yes ✓ No ____
TRACT NAME NO.
MAP NO.
TYPE OF BUILDING I II (III) IV V H.T. I.M. N
OCCUPANCY GROUP A B C D (E) F G H (I) J
DIV (1) 2 3 4 5
ZONING DISTRICT AA A B CC C D E F G H I J LR
FIRE ZONE 1 (2) 3

NEW CONSTRUCTION

Size of new building ____ x ____
Height to highest point
No. of Stories
Specific type of Occupancy
State how many buildings now on lot and give use of each
Number of Families
Size of Lot ____ x ____
Material of Exterior Walls

Footing Width ____ Depth in Ground ____ Width of Wall ____ Mudsill ____
Studs ____ x ____ @ ____ ctrs. Floor Joists ____ x ____ @ ____ ctrs. Ceiling Joists ____ x ____ @ ____ ctrs.
Rafters ____ x ____ @ ____ ctrs. Roof covering

ADDITION ALTERATION REPAIR

Present use of building Offices Families ____ Rms ____
Proposed use of building Ofices Families ____ Rms ____
Size of existing building ____ x ____ Number of stories high ____

Describe briefly all proposed construction work
Room 35 - 2nd Floor
Relocat 2 offices
2x4 Loc
3/4 Shetrock
Relocat Lights
Relocat Sprinkler.

VALUATION OF PROPOSED WORK:
Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon, $ 750 —
COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

GENERAL INSTRUCTIONS: If the work herein described is not commenced within one hundred twenty (120) days after the issuing of this permit, or if the work is suspended or abandoned at any time after the work is commenced for a period of one hundred twenty (120) days, this permit shall expire by limitation and become null and void as provided in the Oakland Building Code.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: LAWRENCE A. LANE
Building Inspector
By 2 L CHO.

Contractor: (if any) John R Kay
Address 1404 Franklin
Phone No. GL 1-9301
State License No. 124995 City License No. Dec 31, 65

Certified Architect
Licensed Civil Engineer

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

John R Kay
Signature of Applicant

TO BE SIGNED ONLY WHEN ISSUED TO OWNER

I hereby certify that I am the applicant for a Building Permit, and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmen's compensation insurance.

Signature of Owner

DEPARTMENT COPY

FOR INSPECTIONS TELEPHONE 273-3441

APPROVAL REQUIRED BY STREET AND ENGINEERING DEPARTMENT:

There are no PROPOSED STREET OPENINGS, PUBLIC EASEMENTS OF RECORD or _____ in this Department which are in conflict with this application.

REMARKS: _____

STREET AND ENGINEERING DEPARTMENT

By _____ Date _____

PLOT PLAN

FORMS OK

LATH OK

ROUGH OK 4/21/65 – HH

GYPSUM PLASTER OK

WIRE OK

FINAL OK 8/24/65 HH

TREASURER

APR 22 1965

CITY OF OAKLAND

FIREPLACE OK

FOR OFFICE USE ONLY

ROUTING DIVISION
FIRE MARSHAL APPROVAL
SPECIAL ACTIVITY PERMIT NO.
WORKING PERMIT NO.
HOST OF OAKLAND APPROVAL
PLANNING PERMIT NO.
HEALTH DEPT. APPROVAL
S. OF E. & A. ITEM NO.
M. A. & A. REF. NO.
ZONING OR PLANNING NO.

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND
WRITE IN INK - FILE ALL COPIES

Inspected

DATE FILED
DATE ISSUED SEP -4 [illegible] 079836

APPLICATION TO: [illegible] CONSTR.
ALTER ADD OTHER
REPAIR WRECK

JOB LOCATION 430 - Jackson
OWNER'S NAME Safeway Stores
OWNER'S ADDRESS Hall Oakland
OWNER'S PHONE NO. 444-8711 - Ext. 436

FIELD CHECK BY DATE
Approved YES
REMARKS (conditions noted)

NEW CONSTRUCTION

Size of new building ____ x ____
Height to highest point
No. of Stories
Specific type of Occupancy
State how many buildings now on lot and give use of each
Footing Width Depth in Ground Width of Wall Mudsill
Posts @ ctrs. Floor Joists x @ ctrs. Ceiling Joists x @ ctrs.
Rafters x @ ctrs. Roof Covering

Number of Families
Size of Lot x
Material of Exterior Walls

VALUATION OF PROPOSED WORK: $
Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon.

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: LAWRENCE A. LANE
Chief Building Inspector

By WEC

TO BE SIGNED ONLY WHEN ISSUED TO OWNER.

I hereby certify that I am the applicant for a Building Permit and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmen's compensation insurance.

Signature of Owner

CONSTRUCTION LENDER
(If none, write none)

Name
Branch
Street Address
City State Zip

DEPARTMENT COPY

430 Jackson ST.

Receipt No.

VALUE: $ 750 -

B. R. Tax $ .50
SMIP $
Address Fee $
General Fee $ 10.00
Checking Fee $
TOTAL FEES $ 10.50

ADDITIONAL COST:
$
Date
Add'l Fee $
Add'l
Checking Fee $
Add'l SMIP $

TOTAL VALUE:
$
TOTAL FEES $

PLAN FILED Yes No ✓ SURVEYS FILED Yes No ✓
MAP NO. 160 - TRACT NAME/NO.
TYPE OF BUILDING I II (III) IV V H.T. 1 hr. N
OCCUPANCY GROUP A B C D E (F-2) G H I J
ZONING DISTRICT R C M S
FIRE ZONE 1 (2) 3

ADDITION (ALTERATION) REPAIR

Present use of building EMPTY WAREHOUSE & Office Families 0 Rms
Proposed use of building OFFICE Families 0 Rms
Size of existing building x Number of stories high
Describe briefly all proposed construction work: Remove Existing non Bearing partitions.

Contractor: (if any) Wayne Smith Certified Architect
Address 311 East 7th St. Oakland
Phone No. 536-3443 Licensed Civil Engineer
State License No. 227182 City License Exp. 3-31-76

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

X Wayne Smith
Signature of Applicant

FOR INSPECTIONS TELEPHONE 273-3441

APPROVAL REQUIRED BY OFFICE OF PUBLIC WORKS:

There are no PROPOSED STREET OPENINGS, PUBLIC EASEMENTS OF RECORD

or_____

in this Office which are in conflict with this application.

REMARKS:_____

_____

OFFICE OF PUBLIC WORKS

By_____ Date_____

FORMS OK

FIREPLACE OK

WIRE (EXT.) OK

LATH (INT.) OK

ROUGH OK

GYPSUM BD. OK
PLASTER OK

FINAL OK CCS 9/27/54

PLOT PLAN

FOR OFFICE USE ONLY

HOUSING DIVISION
FIRE MARSHAL APPROVAL E.B. Thorn
SPECIAL ACTIVITY PERMIT NO.
MOVING PERMIT NO.
PORT OF OAKLAND APPROVAL
FIJ WIRING PERMIT NO.
HEALTH DEPT. APPROVAL
S. OF E. & A. ITEM NO.
H. & A. S. SEC. NO.
ZONING OR PLANNING NO. A-307
Approved per plan
Mike 9/6/74

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND

WRITE IN INK - FILE ALL COPIES

DATE FILED SEP 6 1974 Inspected
DATE ISSUED SEP -6 1974 PERMIT NO. C79871

APPLICATION FOR PERMIT TO:

(ALTER) ADD TO NEW CONSTR.
REPAIR WRECK OTHER

JOB LOCATION 430 JACKSON
OWNER'S NAME Safeway Stores
OWNER'S ADDRESS 426 Jackson
OWNER'S PHONE NO. 444-4711 - EXT. 436
FIELD CHECK BY C.C.E. DATE 9/6/74
Approved YES ✓
REMARKS (conditions noted)

430 JACKSON ST.

VALUE: $45,000

B. R. Tax $ Receipt No.
SMIP $
Address Fee $ 2.15
General Fee $ 154.50
Checking Fee $ 92.70 9/11/74

ADDITIONAL COST: $

Date

TOTAL VALUE: $

TOTAL FEES $ 250.35
Add'l Fee $
Add'l
Checking Fee $
Add'l SMIP $
TOTAL FEES $

PLAN FILED Yes ✓ No SURVEYS FILED Yes No ✓
MAP NO. 160 TRACT NAME/NO.
TYPE OF BUILDING I II (III) IV V H.T. 1 hr. N
OCCUPANCY GROUP A B C D E (F-2) G H I J
ZONING DISTRICT R C M-30 S
FIRE ZONE 1 (3)

NEW CONSTRUCTION

Size of new building x
Height to highest point
No. of Stories
Specific type of Occupancy
State how many buildings now on lot and give use of each
Footing Width Depth in Ground Width of Wall Mudsill
Studs x @ ctrs. Floor Joists x @ ctrs. Ceiling Joists x @ ctrs.
Rafters x @ ctrs. Roof Covering

Number of Families
Size of Lot x
Material of Exterior Walls

ADDITION ALTERATION REPAIR

Present use of building OFFICES Families Rms.
Proposed use of building OFFICES Families Rms.
Size of existing building 125' x 200 Number of stories high 1
Describe briefly all proposed construction work:
Install partitions to create office space in existing warehouse.

VALUATION OF PROPOSED WORK: $ 45,000.00

Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon.

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: LAWRENCE A. LANE
Chief Building Inspector
By BMT

Contractor: (if any) Wayne Smith Certified Architect
Address 3111 EAST 7th St. OAKLAND
Phone No. 536-3443 Licensed Civil Engineer
State License No 227482 City License Exp. 3-31-75

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

Wayne Smith
Signature of Applicant

TO BE SIGNED ONLY WHEN ISSUED TO OWNER.	CONSTRUCTION LENDER (If none, write none)
I hereby certify that I am the applicant for a Building Permit and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmen compensation insurance.	Name
	Branch
	Street Address
Signature of Owner	City State Zip

DEPARTMENT COPY

FOR INSPECTIONS TELEPHONE 273-3441

APPROVAL REQUIRED BY OFFICE OF PUBLIC WORKS:

There are no PROPOSED STREET OPENINGS, PUBLIC EASEMENTS OF RECORD

or ______

in this Office which are in conflict with this application.

REMARKS: ______

OFFICE OF PUBLIC WORKS

By ______ Date ______

PLOT PLAN

FORMS OK

FIREPLACE OK

WIRE (EXT.) OK

LATH (INT.) OK

ROUGH OK

CCS 9/17/74 ROK in sec 1 north West Corner except where Pl is req
CCS 9/27/74 3/4 Sec 2 frame ok
CCS 10/4/74 all ok in 2nd sec.
CCS 10/10/74 R Frame in Bath [illegible] OK
CCS 10/11/74 [illegible] OK
CCS 9/10/75 new [illegible] [illegible] Check [illegible] when [illegible]

GYPSUM BD. OK

~~PLASTER OK~~ CCS 9/20/74 Sec 1. all ok
Sec 2 OK except top of Corridor

FINAL OK 11-20-75 [illegible]

CITY OF OAKLAND
BUILDING AND HOUSING DEPARTMENT

INTER-DEPARTMENTAL CORRESPONDENCE

To: Fire Marshal Attention: Capt D Price Date: 10/30/75

From: C Staton Division: Bldg

Re: Address 430 Jackson St

Owner Safeway Stores Inc Address same Phone 444 6712 ext

Contractor Wayne Smith Address 311 27th St Phone 536 3443

Please Reply to Following:

Any objection to a finial on permits
C 79871
C 80847
C 84446
all work that was done so far.

Signed C Staton

Title Bldg Insp

REPLY

No objection to a finial on these permits.

RECEIVED
NOV 12 '75

Signed Thomas C O'Brien Capt

Title Fire Insp

Date 11-6-75

ORIGINAL—RETURN TO OFFICE OF ORIGIN

339-3 (7/60)

430 JACKSON ST

Receipt No.

FOR OFFICE USE ONLY

HOUSING DIVISION

FIRE MARSHAL APPROVAL T. O'Brien 12-26-74

SPECIAL ACTIVITY PERMIT NO.

MOVING PERMIT NO.

PORT OF OAKLAND APPROVAL

PLUMBING PERMIT NO.

HEALTH DEPT. APPROVAL

R OF S & A ITEM NO.

H A & B RES. NO.

ZONING OR PLANNING NO. As per plan

Interior alter only

12-30-74

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND

WRITE IN INK - FILE ALL COPIES

Inspected

DATE FILED

DATE ISSUED NOV -5 1974 PERMIT NO. 80847

APPLICATION FOR PERMIT TO:

ALTER ____ ADD TO ____ NEW CONSTR. ____

REPAIR ____ WRECK ____ OTHER ____

JOB LOCATION 430. JACKSON

OWNER'S NAME SAFEWAY STORES INC

OWNER'S ADDRESS 401 JACKSON

OWNER'S PHONE NO.

FIELD CHECK BY CCS DATE 12/26/74

Approved YES ✓

REMARKS (conditions noted)

VALUE:

$ 15,000

B. R. Tax $

SMIP $ 1.05

Address Fee $

General Fee $ 72.00

Checking Fee $ 43.20

TOTAL FEES $ 116.25

ADDITIONAL COST:

$ 22,000 Add'l Fee $ 62.50

Add'l

Date 12-19-74 Checking Fee $ 37.50

Add'l SMIP $ 1.54

TOTAL VALUE:

$ 37,000 TOTAL FEES $ 217.80

PLAN FILED Yes ✓ No ____ SURVEYS FILED Yes ____ No ✓

MAP NO. 160 TRACT NAME/NO. —

TYPE OF BUILDING I II (III) IV V H.T. 1 hr. N

OCCUPANCY GROUP A B ____ C D ____ E ____ (2) G H I J

ZONING DISTRICT R ____ C ____ M 30 S ____

FIRE ZONE 1 (2) 3

ADDITION (ALTERATION) REPAIR

NEW CONSTRUCTION

Size of new building ____ x ____

Height to highest point ____

No. of Stories ____

Number of Families ____

Size of Lot ____ x ____

Material of Exterior Walls ____

Specific type of Occupancy ____

State how many buildings now on lot and give use of each ____

Footing Width ____ Depth in Ground ____ Width of Wall ____ Mudsill ____

Studs ____ x ____ @ ____ ctrs. Floor Joists ____ x ____ @ ____ ctrs. Ceiling Joists ____ x ____ @ ____ ctrs.

Rafters ____ x ____ @ ____ ctrs. Roof Covering ____

VALUATION OF PROPOSED WORK: $ ____

Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon.

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: LAWRENCE A. LANE
Chief Building Inspector

By WOZ

Present use of building OFFICES. Families 0 Rms.

Proposed use of building OFFICES Families 0 Rms.

Size of existing building ____ x ____ Number of stories high ____

Describe briefly all proposed construction work:

add 6 private offices ADDITION OF 4th PHASE AS PER PLANS SUBMITTED

Contractor: (if any) WAYNE SMITH Certified Architect

Address 3111 E 7th St.

Phone No. 536-3443 Licensed Civil Engineer

State License No. 237412 City License Exp. 3/31/75 None

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

Wayne Smith
Signature of Applicant

TO BE SIGNED ONLY WHEN ISSUED TO OWNER.	CONSTRUCTION LENDER (If none, write none)
I hereby certify that I am the applicant for a Building Permit, and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmens compensation insurance.	Name
	Branch
	Street Address
Signature of Owner	City State Zip

FORM 189-4 (REV. 8-73) DEPARTMENT COPY

FOR INSPECTIONS TELEPHONE 273-3441

APPROVAL REQUIRED BY OFFICE OF PUBLIC WORKS:

There are no PROPOSED STREET OPENINGS, PUBLIC EASEMENTS OF RECORD

or ______________________________

in this Office which are in conflict with this application.

REMARKS: ______________________________

OFFICE OF PUBLIC WORKS

By ______________________ Date ______________

PLOT PLAN

FORMS OK

CCS 1/7/75 OK on openings

ROUGH OK

CCS 11/6/74 all except front portion

CCS 11/22/74 all ok

CCS 1/7/75 R OK 4th stage

CCS 7/10/75 new exit to go in. Check F.M. when done

FIREPLACE OK

WIRE (EXT.) OK

LATH (INT.) OK

GYPSUM BD. OK

~~PLASTER OK~~ CCS 11/22/74 OK

FINAL OK 11-20-75

430 Jackson St.

FOR OFFICE USE ONLY

HOUSING DIVISION
FIRE MARSHAL APPROVAL E.B. Hagy
SPECIAL ACTIVITY PERMIT NO.
MOVING PERMIT NO.
PORT OF OAKLAND APPROVAL
PLUMBING PERMIT NO.
HEALTH DEPT. APPROVAL
OF E & A ITEM NO.
H A B A B RES. NO.
ZONING OR PLANNING NO. as per plan submitted
7-10-75

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND

WRITE IN INK - FILE ALL COPIES Inspected

DATE FILED
DATE ISSUED JUL 10 1975 PERMIT NO. CB4446

APPLICATION FOR PERMIT TO:

ALTER ✓ ADD TO ___ NEW CONSTR. ___
REPAIR ___ WRECK ___ OTHER ___

JOB LOCATION 430 Jackson Street Oak
OWNER'S NAME Safeway Stores Inc.
OWNER'S ADDRESS 430 Jackson St. Oak.
OWNER'S PHONE NO. 444-4711-Ext 436

FIELD CHECK BY ___ DATE ___
Approved YES ___
REMARKS (conditions noted) ___

VALUE: $7,500.00

Receipt No.

B. R. Tax $
SMIP $ .53
Address Fee $
General Fee $ 42.—
Checking Fee $ 25.20

TOTAL FEES $ 67.73

ADDITIONAL COST:
$ ___ Add'l Fee $
Add'l
Date ___ Checking Fee $
Add'l SMIP $

TOTAL VALUE:
$ ___ TOTAL FEES $

PLAN FILED Yes ✓ No ___ SURVEYS FILED Yes ___ No ✓
MAP NO. 160 TRACT NAME/NO.
TYPE OF BUILDING I II (III) IV V H.T. 1 hr. N
OCCUPANCY GROUP A B ___ C D ___ E F 2 G H I J ___
ZONING DISTRICT R ___ C ___ M 31 S ___
FIRE ZONE 1 (2) 3

NEW CONSTRUCTION

Size of new building ___ x ___
Height to highest point ___
No. of Stories ___
Specific type of Occupancy ___
State how many buildings now on lot and give use of each ___
Number of Families ___
Size of Lot ___ x ___
Material of Exterior Walls ___

Footing Width ___ Depth in Ground ___ Width of Wall ___ Mudsill ___
Studs ___ x ___ @ ___ ctrs. Floor Joists ___ x ___ @ ___ ctrs. Ceiling Joists ___ x ___ @ ___ ctrs.
Rafters ___ x ___ @ ___ ctrs. Roof Covering ___

VALUATION OF PROPOSED WORK: $ ___

Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon.

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: LAWRENCE A. LANE
Chief Building Inspector
By RC

ADDITION (ALTERATION) REPAIR

Present use of building Offices Families Rms
Proposed use of building Offices Families Rms
Size of existing building ___ x ___ Number of stories high one
Describe briefly all proposed construction work: Build stairs for fire escape, install partition to create 3 rooms.

TO BE SIGNED ONLY WHEN ISSUED TO OWNER.	CONSTRUCTION LENDER (If none, write none)
I hereby certify that I am the applicant for a Building Permit, and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmens compensation insurance.	Name Branch Street Address
Signature of Owner	City State Zip

Contractor: (if any) Wayne Smith Certified Architect
Address 3111 East 7th Street
Phone No. 536-3443 Licensed Civil Engineer
State License No. 227482 City License Exp. 3/30/76

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may in any wise accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

[signature]
Signature of Applicant

FORM 239-A REV. 6-73 DEPARTMENT COPY

FOR INSPECTIONS TELEPHONE 273-3441

PLOT PLAN

APPROVAL REQUIRED BY OFFICE OF PUBLIC WORKS:

There are no PROPOSED STREET OPENINGS, PUBLIC EASEMENTS OF RECORD

or_____

in this Office which are in conflict with this application.

REMARKS:_____

_____

OFFICE OF PUBLIC WORKS

By_____ Date_____

FORMS OK

FIREPLACE OK

WIRE (EXT.) OK

LATH (INT.) OK

ROUGH OK

GYPSUM BD. OK
PLASTER OK

FINAL OK 1-20-75 Gmd

425 Madison

BLDG. OFFICE USE ONLY

BUILDING & HOUSING DEPARTMENT — CITY OF OAKLAND

WRITE IN INK · FILE ALL COPIES

Date filed: 2-11-76

Date issued: FEB 13 1976 PERMIT NO. C87960

APPLICATION FOR PERMIT TO:

ALTER ✓ ADD TO ___ NEW CONSTR. ___

REPAIR ___ WRECK ___ OTHER ___

Job location: 425 Madison St

Owner's name: Safeway Stores Inc

Owner's address: 425 Madison St.

Owner's phone no.: 841-3571

Checked by: Switzer DATE 2-11-76

Approved: YES ✓

VALUE

$ 25000

ADDITIONAL COST

TOTAL VALUE

PLANS FILED: Yes ✓

MAP NO. 160

TYPE OF BUILDING

OCCUPANCY GROUP

ZONING DISTRICT

FIRE ZONE (2)

NEW CONSTRUCTION

Number of families

Size of lot

Material of Exterior Walls

VALUATION OF PROPOSED WORK: $ 25,000

ITEMS OF WORK TO BE CHECKED BEFORE FINAL INSPECTION

LAWRENCE R. LANE, Chief Building Inspector

CONSTRUCTION LENDER

ADDITION — ALTERATION — REPAIR

Present use of building: Offices

Proposed use of building: Offices

Size of existing building ___ Number of stories ___

Describe briefly all proposed construction work: Install Partitions to create separate offices. Install acoustical ceiling. Remodel existing Exit on 5th St.

Contractor: Wayne Smith

Address: 3111 E. 7th St. Oakland

Phone No. 536-3443

State License No. 227486 City License No. 373722

I hereby agree to save, indemnify and keep harmless the City of Oakland ... [illegible] ... conditions under which this permit is issued.

[illegible signature]

FOR INSPECTIONS TELEPHONE 273-3441

BUILDING INSPECTION — CITY OF OAKLAND

WRITE IN INK — FILE ALL COPIES

PERMIT NO. C80078

APPLICATION FOR PERMIT TO:

ADD TO ___ NEW CONSTR. ___ WRECK ___ OTHER ___

Job Address: 425 MADISON ST.

Owner's Name: SPEEDWAY STORES INC.

Owner's Address: 425 MADISON

425 MADISON ST.

VALUE: $ 20,000

TOTAL FEES $

ADDITIONAL COST

TOTAL VALUE

PLAN FILED Yes ✓ No ___ SURVEYS FILED Yes ___ No ___

MAP NO. ___ TRACT NAME/NO. ___

TYPE OF BUILDING I II III IV (V) H.T.

OCCUPANCY GROUP A B ___ C D ___

ZONING DISTRICT R ___ C ___ M ___

FIRE ZONE 1 2 (3)

NEW CONSTRUCTION

ADDITION (ALTERATION) REPAIR

Present use of building: OFFICES

Proposed use of building: SAME

Size of existing building ___ x ___ Number of stories high: 1

Describe briefly all proposed construction work: COVER & REPLACE ROOF ... DECKING COMPLETE ROOF ... THE EXISTING BLDG

Contractor (or owner): ERIC F. ANDERSEN (INCORPORATED)

Address: 1033 YOUNG ...

Phone No. 653-7776

State License No. 87540 City License Tax ___

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

CONSTRUCTION LENDER

FOR INSPECTIONS TELEPHONE 273-3441

425 Madison St

FOR OFFICE USE ONLY

HOUSING CONSERVATION
FIRE MARSHAL APPROVAL Q.P.B
SPECIAL ACTIVITY PERMIT NO.
MOVING PERMIT NO.
PORT OF OAKLAND APPROVAL
PLUMBING PERMIT NO.
HEALTH DEPT. APPROVAL
B. OF E. & A. ITEM NO.
M. A. & A. S. REF. NO.
ZONING OR PLANNING NO.

BUILDING INSPECTION — CITY OF OAKLAND

WRITE IN INK · FILE ALL COPIES

Inspected

DATE FILED 2-21-79

DATE ISSUED ______ PERMIT NO. ______

APPLICATION FOR PERMIT TO:

ALTER X ADD TO ___ NEW CONSTR. ___
REPAIR ___ WRECK ___ OTHER ___

JOB LOCATION 425 MADISON ST.
OWNER'S NAME SAFEWAY STORES, INC.
OWNER'S ADDRESS 4TH & JACKSON ST.
OWNER'S PHONE NO. 891-3000

FIELD CHECK BY ______ DATE ______
Approved YES ______
REMARKS (conditions noted) ______

VALUE
$ 30,000

B. R. Tax $
SMIP $
Address Fee $
General Fee $ 115.50
Checking Fee $ 122.90
TOTAL FEES $ 238.90

ADDITIONAL COST
$ ______ Add'l Fee $
Add'l
Date ______ Checking Fee $
Add'l SMIP $

TOTAL VALUE
$ ______ TOTAL FEES $

PLAN FILED Yes ✓ No ___ SURVEYS FILED Yes ___ No ___
MAP NO. ___ TRACT NAME/NO. ___
TYPE OF BUILDING I II III IV V F.R. H.T. 1 Hr. N.
OCCUPANCY GROUP A E I H B R M
ZONING R C M S
FIRE ZONE 1 2 3

NEW CONSTRUCTION

Size of new building ______ x ______
Height to highest point ______
No. of Stories ______
Specific type of Occupancy ______
State how many buildings now on lot and give use of each ______

Number of Families ______
Size of Lot ______ x ______
Material of Exterior Walls ______

Footing Width ______ Depth in Ground ______ Width of Wall ______ Mudsill ______
Studs ___ x ___ @ ___ ctrs. Floor Joists ___ x ___ @ ___ ctrs. Ceiling Joists ___ x ___ @ ___ ctrs.
Rafters ___ x ___ @ ___ ctrs. Roof Covering ______

VALUATION OF PROPOSED WORK: $ 30,000 —
Including all labor and material and all permanent lighting, heating, ventilating, water supply, plumbing, fire sprinkler, electric wiring and elevator equipment therein or thereon.

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION.

Permission is hereby granted to do the work described in this application in accordance with the provisions of the Oakland Building Code and related ordinances.

Approved: JAMES W. BARCHMAN
Chief Building Inspector

By ______

ALTERATION

Present use of building OFFICES — Families ___ Rms. ___
Proposed use of building SAME — Families ___ Rms. ___
Size of existing building ______ x ______ Number of stories high ______
Describe briefly all proposed construction work: ALTERATION TO LOBBY, REST ROOMS.

TO BE SIGNED ONLY WHEN ISSUED TO OWNER

I hereby certify that I am the applicant for a Building Permit, and that in the performance of the work for which such permit is issued, I will not employ any person or persons in any manner so as to become subject to the provisions of the Labor Code of the State of California relating to workmen's compensation insurance.

Signature of Owner ______

CONSTRUCTION LENDER
(If none, write none)

Name ______
Branch ______
Street Address ______
City ______ State ______ Zip ______

Contractor (if any) ERIC F. ANDERSON INC Contractor/Architect
Address 1033 YERBA BUENA —
Phone No. 653-7726 — Licensed Civil Engineer
State License No. 87940 City License Exp. DEC '79

I hereby agree to save, indemnify and keep harmless the City of Oakland and its officers, employees and agents against all liabilities, judgments, costs and expenses which may accrue against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk, or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

James S. ... agent

FOR INSPECTIONS TELEPHONE 273-3441

DEPARTMENT COPY

430 — JACKSON ST

BUILDING INSPECTION - CITY OF OAKLAND
WRITE IN INK - FILE ALL COPIES

DATE FILED 3-26-86 LJ4803
DATE ISSUED 4-9-2 PERMIT NO.

APPLICATION FOR PERMIT TO:

ALTER ✓ ADD TO ____ NEW CONSTR ____
REPAIR ____ WRECK ____ OTHER ____

JOB LOCATION 430 JACKSON ST
OWNER'S NAME SAFEWAY STORES
OWNER'S ADDRESS SAME
OWNER'S PHONE NO. 891-3561 (MR. DICK HOWARD)

FIELD CHECK BY ____ DATE ____
Approved: YES ____
REMARKS ____

VALUE:
$ 75,000

ADDITIONAL COST:
$ ____
Date ____

TOTAL VALUE:
$ ____

PLAN FILED: Yes ✓ No ____
MAP NO. ____
TYPE OF BUILDING
OCCUPANCY GROUP
ZONING
FIRE ZONE 1 (2) 3

NEW CONSTRUCTION

Number of Families ____
Size of Lot ____ x ____
Material of Exterior Walls ____

ADDITION [ALTERATION] REPAIR

Present use of building OFFICES
building SAME
building 200 299

VALUATION OF PROPOSED WORK $ 75,000

Describe briefly all proposed construction work:
OFFICES IN VACANT SPACE

COST OF WORK TO BE CHECKED BEFORE FINAL INSPECTION

CONSTRUCTION LENDER

Contractor (Firm) ERIC F. ANDERSON INC.
Address 1023 YERBA BUENA AVE OAKLAND
Phone No. 653-2226
State license No. 82540

FOR INSPECTIONS TELEPHONE 273-3441

CITY OF OAKLAND

BUILDING PERMIT APPLICATION

483 Jackson St

425 Madison St
201 ... St

OWNER: Safeway Stores Inc.
4th & Jackson St
Oakland

ARCHITECT/ENGINEER: Safeway Stores, Inc.
4th & Jackson St
Oakland

CONTRACTOR: License No. 82540 — City Business Tax 7579
Eric F. Anderson, Inc
1033 Yerba Buena St
Oakland Ca. 94608 — 653-2226
Malcolm F. McFarland

DATE FILED 10-8-82 PERMIT NUMBER
DATE ISSUED OCT 20 1982

☐ NEW ☐ REPAIR ☐ ADDITION
☐ MOVE ☒ ALTERATION ☐ DEMOLITION
☐ OTHER

DESCRIBE BRIEFLY ALL PROPOSED CONSTRUCTION WORK

1st Fl Office Alter
Phase II

*See Comments on p A-1

Valuation of Proposed Work $ 12,000
Include all labor and materials, all lighting, heating, ventilation, water supply, plumbing, electrical, fire sprinkler, elevator equipment therein and thereon.

Plan Filed yes Survey Filed No
Size of Bldg. x
No. of Stories
Height at Highest Point
Type of Occupancy
Number of Units
Number of Bldgs. on lot
Use of each
Lot Size
Present Use of Bldg.
Proposed Use of Bldg.
Type of Bldg. I II (III) IV V

OWNER/BUILDER

WORKER'S COMPENSATION

X Malcolm F. McFarland

LENDER

NONE

APPLICANT

X Malcolm F. McFarland

DATE | OFFICIAL USE ONLY
10/8/82 | HOUSING CONSERVATION
| FIRE MARSHAL

433 Jackson

CITY OF OAKLAND

[illegible] SERVICES DEPARTMENT
CITY HALL [illegible] FLOOR
[illegible]
OAKLAND, CALIF. [illegible]
PHONE (415) 273-3441

BUILDING PERMIT APPLICATION

THIS IS YOUR PERMIT WHEN PROPERLY FILLED OUT, SIGNED, VALIDATED & FEES PAID

OWNER

Name: Safeway Stores 891-3000
Address: 435 Harrison St 94612
City: Oakland Calif

ARCH. / ENGR.

Name: Same as above

CONTRACTOR

License # and Class: 825[illegible] B-1
Name: Eric F. Anderson Inc
Address: 1083 Yerba Buena Ave
City: Oakland Calif 94608 653-7776
Signature: James S Wucke Date: 7-7-81

OWNER/BUILDER

[illegible]

☐ I am exempt under Sec. [illegible] B&P C. for this reason [illegible]

WORKER'S COMPENSATION

[illegible]

X James S Wucke Date: 7-7-81

[illegible]

NOTICE TO APPLICANT: [illegible]

LENDER

[illegible]

APPLICANT

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. [illegible]

[illegible]

James S Wucke 7-7-81

DATE ISSUED [illegible] -7 [illegible] DATE PAID

☐ NEW ☐ REPAIR ☒ ADDITION
☐ MOVE ☐ ALTERATION ☐ DEMOLITION
☐ OTHER

321414

DESCRIBE BRIEFLY ALL PROPOSED CONSTRUCTION WORK:

Add four additional offices - construct new [illegible] corridor, relocate [illegible]

Plan Filed: Yes Survey Filed:
Size of Bldg: x
No. of Stories: Number of Units:
Height of Highest Point:
Proposed Use of Bldg:
Present Use of Bldg:
Number of Bldgs. on lot:
Use of each:
Lot Size:
TYPE OF BUILDING: I II III IV V [illegible]
OCCUPANCY GROUP: A B E H I R M
ZONING: R C M-20 S
Roof Covering:
Exterior Wall:
Valuation of Proposed Work $ 12,000
Include all labor and materials, all lighting, heating, ventilation, water supply, plumbing, electrical, fire sprinklers, elevator equipment therein and thereon.

VALUE:		
	B.P. Fee	$
	[illegible]	$
	Checking Fee	$
$	TOTAL	$
	General Fee	$ 143
	Checking Fee	$ 63
	Mic. Sur.	$ 2.18
	SMIP	$ .84
ADDITIONAL COST	Address Fee	$
$	TOTAL	$ 170.94
Date	Add'l. Fee	$
TOTAL VALUE	Add'l. Ck. Fee	$
	Add'l. SMIP	$
$	Add'l. Sur.	$
	TOTAL	$

DATE	OFFICIAL USE ONLY	
	HOUSING CONSERVATION	
7/7/81	FIRE MARSHAL	[illegible]
	SPECIAL ACTIVITY NO.	
	MOVING PERMIT NO.	
	PORT OF OAKLAND	
	PLUMBING PERMIT NO.	
	HEALTH DEPT.	
	BE&A ITEM NO.	
	HA&AB RES. NO.	
7/7/81	ZONING & PLANNING	[signature]
	OTHER	
interior partitions		
	APPLICATION APPROVED BY	[signature]
	FIELD CHECK	
[illegible]	FINAL INSPECTION	[illegible]

321414 [illegible]

435 [illegible] 800

CITY OF OAKLAND
INSPECTIONAL SERVICES DEPARTMENT
CITY HALL 11TH FLOOR
14TH & WASHINGTON ST.
OAKLAND, CALIF. 94612
PHONE (415) 273-3441

BUILDING PERMIT APPLICATION

THIS IS YOUR PERMIT WHEN PROPERLY FILLED OUT, SIGNED, VALIDATED & FEES PAID

D28310

BUILDING ADDRESS: 430 Jackson St. Oakland

OWNER
NAME: Safeway Stores Inc. 891-3578
ADDRESS: 201 - 4th St. 94660
CITY: Oakland, Calif.

ARCH. ENGR.
NAME: Safeway Stores Inc.
ADDRESS:
CITY:

CONTRACTOR
1-84 0
LICENSE # AND CLASS: 88540 CITY BUSINESS TAX: 07579
CONTRACTOR NAME: Eric F. Anderson Inc
ADDRESS: 1033 Yerba Buena St. 94608 653.7744
CITY: Oakland. DATE: 3-10-83
SIGNATURE: James S. Hicks

OWNER/BUILDER

WORKER'S COMPENSATION

11-1-83

X

☐ NEW ☐ REPAIR ☐ ADDITION
☐ MOVE ✓ ALTERATION ☐ DEMOLITION
☐ OTHER

DESCRIBE BRIEFLY ALL PROPOSED CONSTRUCTION WORK:
Alteration to exist offices -

Plan Filed ✓
Size of Bldg.
No. of Stories
Height of Highest Point
Proposed Use of Bldg. OFFICE
Present Use of Bldg. OFFICE
Number of Bldgs. on lot
Use of each
Lot Size
TYPE OF BUILDING
OCCUPANCY GROUP B2
ZONING
Roof Covering
Exterior Wall
Valuation of Proposed Work $ 30,000

VALUE: AP
30,000—

128 __
134 __
TOTAL 263 __
TOTAL 207 67

ADDITIONAL COST

TOTAL VALUE

DATE | OFFICE USE ONLY

D28310 Inspected
ADDRESS 430 Jackson St

CITY OF OAKLAND

BUILDING PERMIT APPLICATION

Interior Alterations

92540
Eva A Anderson, Inc
1033 Jordan Blvd Ste. 051 2226
Oakland Ca
Walter F McFarland 3-14-89

VALUE

70,000

ADDITIONAL COST

TOTAL VALUE

DATE	OFFICIAL USE ONLY

CITY OF OAKLAND

INSPECTION SERVICES DEPARTMENT
CITY HALL 1ST FLOOR
1421 W. WASHINGTON ST.
OAKLAND, CALIF. 94612
PHONE (415) 273-3441

BUILDING PERMIT APPLICATION

425 Jackson Street, Oakland, Ca

OWNER: Safeway Stores, Inc.
201 4th St
Oakland
Safeway Stores, Inc.

415 - 891-3000
94660

ARCH. ENGR.

CONTRACTOR: 82540 4/30/86 .484 008579
Eric F. Anderson, Inc.
1033 Yerba Buena Ave.
Oakland, Ca. 94608 415-653-2226
Malcolm F. McFarland 1-30-85

OWNER/BUILDER

WORK'S COMPENSATION: PC 966247 Republic Ind. 4/1/85
✓ Malcolm F. McFarland 1-30-85

LENDER

ARCHITECT

Demolish & Remove Non Load Bearing Partitions & Suspended Ceilings & Install new Suspended ceiling with 2x4 T-Bar Light Fixtures

Comm

Valuation of Proposed Work: $ 42,000

VALUE: $ 42,000

TOTAL: $

ADDITIONAL COST

TOTAL: $

TOTAL VALUE

TOTAL

DATE | OFFICIAL USE ONLY

1-30-85 Licenses

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:06:52

Applic#* B8803950 Type: 5
Date Filed: 08/30/88 Disposition: F FINALED 01/12/90

	NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr: 1)	430	JACKSON	ST		001 -0161-001-00
2)					
3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: EXPAND COMP RM;DEMO PARTITIONS;FRAME DOOR OPENINGS; MISC PC:

Insp Div: BD-INSP Dist: 01 Scope Includes: BLDG ELEC MECH PLMB
Track:

		Lic#	Phone#	Applicant
Owner:	SAFEWAY STORES			
Contractor:	ANDERSON, ERIC F. INC.	082540	(510)430-8404	X
Arch/Engr:				
Agent:	ERIC ANDERSON INC		( )430-8404	

Applicant Addr:
City/State: Zip: No Fee:
Other Related Applic#s: M8901534 Wrkrs Comp* NA

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:06:53

Applic#* B8804344 Type: 5
Date Filed: 09/23/88 Disposition: F FINALED 09/15/89

	NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr: 1)	430	JACKSON	ST		001 -0161-001-00
2)					
3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: REMODEL TENANT IMPROVEMENTS PC:

Insp Div: BD-INSP Dist: 01 Scope Includes: BLDG ELEC MECH PLMB

	Lic#	Phone#	Applicant
Track:			
Owner: SAFEWAY STORES, INC.		( )891-3000	
Contractor: ANDERSON, ERIC F. INC.	082540	(510)430-8404	X
Arch/Engr:			
Agent: ERIC F. ANDERSON, INC.		( )430-8404	

Applicant Addr:
City/State: Zip: No Fee:
Wrkrs Comp* NA
Other Related Applic#s:

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:06:55

Applic#* B9001275 Type: 5
Date Filed: 03/16/90 Disposition: F FINALED 06/24/91

		NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr:	1)	430	JACKSON	ST		001 -0161-001-00
	2)					
	3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: ADD HANDICAP RAMP, MEN & WOMANS SHOWER REARRANGE OFFICE SPAC PC:

Insp Div: BD-INSP Dist: 01 Scope Includes: BLDG ELEC MECH PLMB

	Lic#	Phone#	Applicant
Track:			
Owner: SAFEWAY STORES INC		( )890-3057	
Contractor: ANDERSON, ERIC F. INC.	082540	(510)430-8404	X
Arch/Engr:			
Agent:			

Applicant Addr:
City/State: Zip: No Fee:
Wrkrs Comp* NA
Other Related Applic#s: M9001412

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:06:57

Applic#* B9103286 Type: 5
Date Filed: 06/28/91 Disposition: F FINALED 11/15/91

	NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr: 1)	430	JACKSON	ST		001 -0161-001-00
2)					
3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: REMODEL INTERIOR OFFICE SPACE (SAFEWAY OFFICES) PC:

Insp Div: BD-INSP Dist: FC Scope Includes: BLDG ELEC MECH PLMB

	Lic#	Phone#	Applicant
Track:			
Owner: SAFEWAY INC		( )891-3057	
Contractor: ANDERSON, ERIC F. INC.	082540	(415)430-8404	X
Arch/Engr:			
Agent:			

Applicant Addr:
City/State: Zip: No Fee:
Wrkrs Comp* NA
Other Related Applic#s:

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:06:59

Applic#* B9103936 Type: 5
Date Filed: 08/07/91 Disposition: F FINALED 10/23/91

		NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr:	1)	430	JACKSON	ST		001 -0161-001-00
	2)					
	3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: REMODEL INTERIOR OFFICE SPACE REMOVE INTERIOR WALLS PC:

Insp Div: BD-INSP Dist: 01 Scope Includes: BLDG ELEC MECH PLMB
Track:

		Lic#	Phone#	Applicant
Owner:	SAFEWAY INC		( )891-3057	
Contractor:	ANDERSON, ERIC F. INC.	082540	(415)430-8404	X
Arch/Engr:				
Agent:				

Applicant Addr: 1066 BEECHER ST.
City/State: SAN LEANDRO, CA Zip: 94577 Wrkrs Comp* NA No Fee:
Other Related Applic#s:

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:07:00

Applic#* B9104573 Type: 5
Date Filed: 09/12/91 Disposition: F FINALED 11/19/91

	NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr: 1)	430	JACKSON	ST		001 -0161-001-00
2)					
3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: REMODEL INTERIOR OFFICE SPACE INC. REPLACE NON-BEARING WALL PC:

Insp Div: BD-INSP Dist: 01 Scope Includes: BLDG ELEC MECH PLMB

	Lic#	Phone#	Applicant
Track:			
Owner: SAFEWAY INC		( )891-3057	
Contractor: ANDERSON, ERIC F. INC.	082540	(510)430-8404	X
Arch/Engr:			
Agent:			

Applicant Addr:
City/State: Zip: No Fee:
Wrkrs Comp* NA
Other Related Applic#s:

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:07:02

Applic#* B9104656 Type: 5
Date Filed: 09/13/91 Disposition: F FINALED 11/27/91

	NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr: 1)	430	JACKSON	ST		001 -0161-001-00
2)					
3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: REMODELING EXISTING LUNCH ROOM PC:

Insp Div: BD-INSP Dist: 01 Scope Includes: BLDG ELEC MECH PLMB

	Lic#	Phone#	Applicant
Track:			
Owner: SAFEWAY INC.		( )891-3057	
Contractor: ANDERSON, ERIC F. INC.	082540	(415)430-8404	X
Arch/Engr:			
Agent:			

Applicant Addr:
City/State: Zip: No Fee:
Wrkrs Comp* NA
Other Related Applic#s:

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

PTS100-01 UPDATE/QUERY PROJECT INFORMATION 4/03/15 08:07:04

Applic#* B9800188 Type: 5
Date Filed: 01/20/98 Disposition: F FINALED 07/20/98

		NUMBER	STREET NAME	SUFFIX*	SUITE	ASSESSOR PARCEL#
Site addr:	1)	430	JACKSON	ST		001 -0161-001-00
	2)					
	3)					

Bldg: Floor: Prcl Cond: Cond Aprvl: Viol:
Proj Descr: Demolition of all interior non bearing walls. PC:

Insp Div: BD-INSP Dist: 02 Scope Includes: BLDG ELEC MECH PLMB
Track:

		Lic#	Phone#	Applicant
Owner:	SAFEWAY STORES INCORPORATED			
Contractor:	ANDERSON, ERIC F. INC.	082540	(510)430-8404	X
Arch/Engr:				
Agent:				

Applicant Addr: 1066 BEECHER ST. No Fee:
City/State: SAN LEANDRO, CA Zip: 94577 Wrkrs Comp* NA
Other Related Applic#s: B9801097 CGS980120 P9800861 E9801548 M9800809
B9901504 E9901303 M9900624

F3=Ext F23=Dsc F24=Com
987 Business Tax License Expired

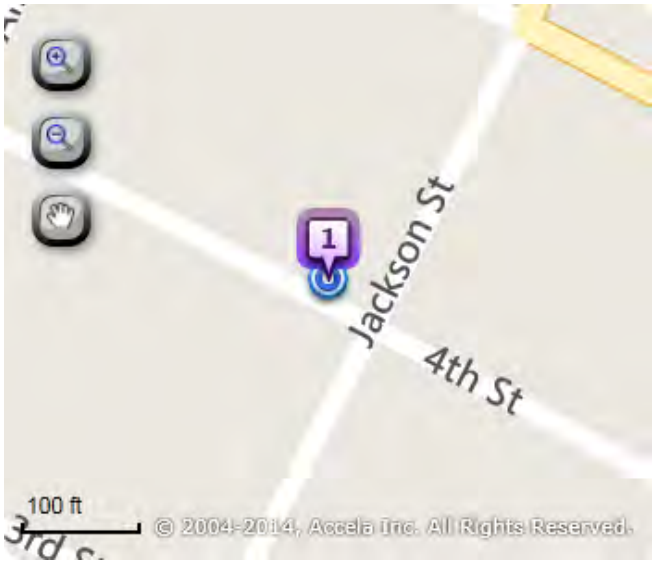
Record B9801097:
Non-Residential Building - Alteration

April 6, 1998

Record Status: Final

Work Location

200 4TH ST
OAKLAND CA



Record Details

Applicant:
1066 BEECHER ST.
SAN LEANDRO, CA, 945770000

Licensed Professional:
ANDERSON, ERIC F. INC.
1066 BEECHER ST.
SAN LEANDRO, CA, 945770000
Contractor 082540

Project Description:
Interior remodel - With additional bathrooms, new t-bar ceiling, new walls, existing H.V.A.C., sprinkler's and new entrance.

More Details

Additional Information

Job Value($):
$800,000.00

Application Information

EXISTING BUILDING INFORMATION

Building Use 1:	Miscellaneous Service Facility

PROPOSED BUILDING INFORMATION

Number of Buildings on Lot:	1
Number of Stories:	1
Fire Sprinklers:	No

Occupancy Group 1:	B
Building Use 1:	Miscellaneous Service Facility

Application Information Table

SPECIAL INSPECTIONS

Special Inspection:	STRUCTURAL STEEL
Inspection Stage:	2. Frame
Comment:	WELDING -
Prescribed By:	ADP
Prescribed:	05/12/1998

Inspections

Upcoming

You have not added any inspections.
Click the link above to schedule or request one.

Completed (25)

APPROVED - 6; CORRECTION NOTICE - 2; NO ACCESS/NO PLANS - 3; No Status - 1; PARTIAL APPROVAL - 13

CORRECTION NOTICE FINAL BUILDING 04P (298136) View Details
Result by: RP on 04/09/1999 at 12:00 AM

PARTIAL APPROVAL FINAL BUILDING 04P (298135) View Details
Result by: JP on 12/04/1998 at 12:00 AM

APPROVED FINAL BUILDING 04P (298137) View Details
Result by: JP on 04/16/1999 at 12:00 AM

No Status Frame (299512) View Details
Result by: RP on 08/27/1998 at 12:00 AM

CORRECTION NOTICE FINAL BUILDING 04P (299511) View Details
Result by: RP on 08/26/1998 at 12:00 AM

< Prev 1 2 3 4 5 Next >

Processing Status

Attachments

Related Records

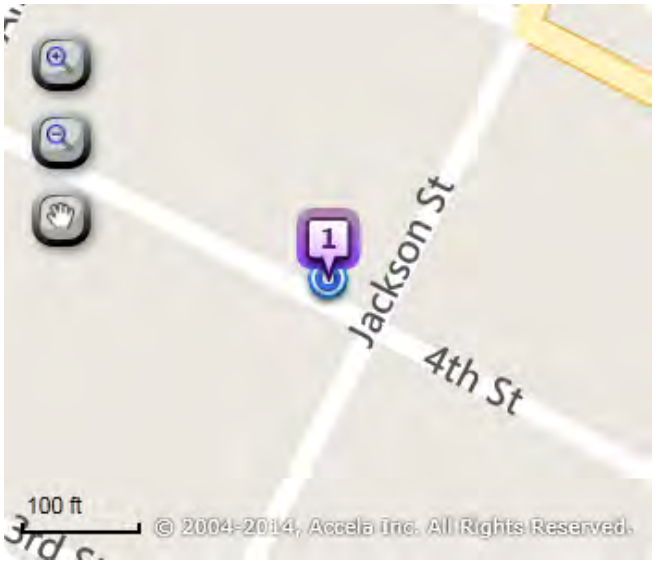
Record B9901504:
Non-Residential Building - Alteration

April 26, 1999

Record Status: Final

Work Location

200 4TH ST
OAKLAND CA



Record Details

Applicant:
4463A STONERIDGE DR
PLEASANTON, CA, 945880000

Licensed Professional:
G H GROUP INC
5933 CORONADO LN, #1-B
PLEASANTON, CA, 945880000
Contractor 521142

Project Description:
Interior remodel - new t-bar ceilings, lights, 3 hvac units, sprinkler's.

More Details

Additional Information

Job Value($):
$50,000.00

Application Information

EXISTING BUILDING INFORMATION

Building Use 1:	Office

PROPOSED BUILDING INFORMATION

Number of Buildings on Lot:	1
Number of Stories:	1
Fire Sprinklers:	No

Occupancy Group 1:	B
Building Use 1:	Office

Inspections

Upcoming

You have not added any inspections.
Click the link above to schedule or request one.

Completed (3)

APPROVED - 2; CORRECTION NOTICE - 1

APPROVED FINAL BUILDING 04P (332494) View Details
Result by: RP on 05/20/1999 at 12:00 AM

CORRECTION NOTICE LATH/CEILING 03N (332493) View Details
Result by: RP on 05/14/1999 at 12:00 AM

APPROVED FIELD CHECK 00N (332492) View Details
Result by: MM on 04/27/1999 at 12:00 AM

Processing Status

Attachments

Related Records

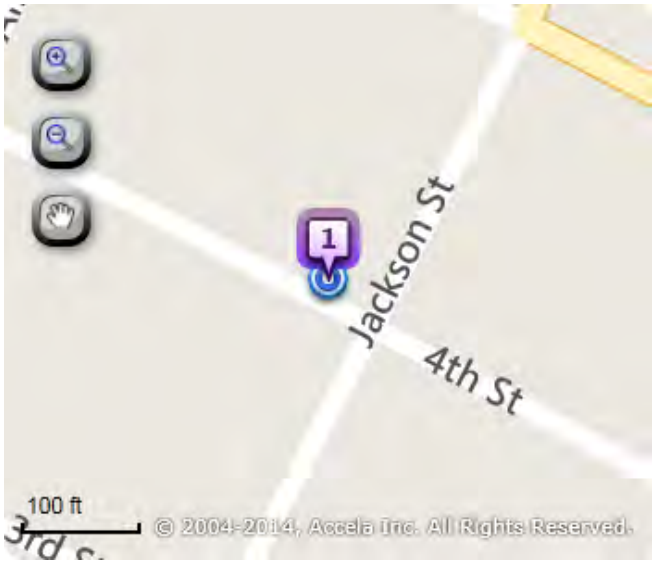
Record B0205225:
Non-Residential Building - Alteration

November 5, 2002

Record Status: Final

Work Location

200 4TH ST
OAKLAND CA



Record Details

Applicant:
5826 BRISA ST.
LIVERMORE, CA, 945500000

Licensed Professional:
SHAMES CONSTRUCTION CO LTD
5826 BRISA ST.
LIVERMORE, CA, 945500000
Contractor 532518

Project Description:
ALTER ROOF FOR A/C UNIT

More Details

Additional Information

Job Value($):
$10,000.00

Application Information

EXISTING BUILDING INFORMATION

Building Use 1:	Miscellaneous Service Facility

PROPOSED BUILDING INFORMATION

Number of Buildings on Lot:	1
Number of Stories:	1
Fire Sprinklers:	No
Occupancy Group 1:	B
Building Use 1:	Miscellaneous Service Facility

Inspections

Upcoming

You have not added any inspections.
Click the link above to schedule or request one.

Completed (2)

APPROVED - 2

APPROVED FINAL BUILDING 04P (36224) View Details
Result by: JP on 01/13/2003 at 12:00 AM

APPROVED ROUGH 03P (36223) View Details
Result by: SB on 12/17/2002 at 12:00 AM

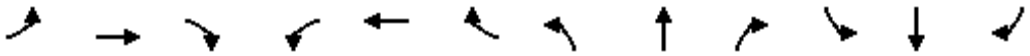
Processing Status

Attachments

Related Records

APPENDIX C

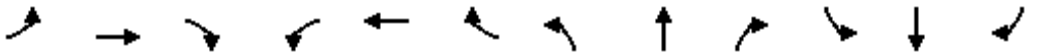
Traffic and Transportation –
Level of Service Calculations



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	260	366	373	0	0	0	0	170	33	66	69	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.94						0.98		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4739						1822		1770	1863	
Flt Permitted		0.99						1.00		0.62	1.00	
Satd. Flow (perm)		4739						1822		1163	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	260	366	373	0	0	0	0	170	33	66	69	0
RTOR Reduction (vph)	0	143	0	0	0	0	0	9	0	0	0	0
Lane Group Flow (vph)	0	856	0	0	0	0	0	194	0	66	69	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2179						716		457	732	
v/s Ratio Prot								c0.11			0.04	
v/s Ratio Perm		0.18								0.06		
v/c Ratio		0.39						0.27		0.14	0.09	
Uniform Delay, d1		13.3						15.4		14.6	14.3	
Progression Factor		1.00						1.00		0.68	0.70	
Incremental Delay, d2		0.5						0.9		0.7	0.3	
Delay (s)		13.9						16.4		10.7	10.3	
Level of Service		B						B		B	B	
Approach Delay (s)		13.9			0.0			16.4			10.5	
Approach LOS		B			A			B			B	

Intersection Summary			
HCM 2000 Control Delay	13.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.34		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	65.1%	ICU Level of Service	C
Analysis Period (min)	15		

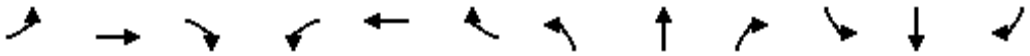
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	2	279	50	232	238	0	0	158	1262
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.66	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1101	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	2	279	50	232	238	0	0	158	1262
RTOR Reduction (vph)	0	0	0	0	0	37	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	2	279	13	232	238	0	0	158	1262
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	653	994			994	1425
v/s Ratio Prot				0.00	0.17			0.14			0.09	
v/s Ratio Perm						0.01	0.21					c0.89
v/c Ratio				0.00	0.64	0.04	0.36	0.24			0.16	0.89
Uniform Delay, d1				20.6	24.6	20.7	7.9	7.2			6.8	0.0
Progression Factor				1.00	1.00	1.00	1.22	1.22			1.00	1.00
Incremental Delay, d2				0.0	7.1	0.2	1.4	0.5			0.3	8.4
Delay (s)				20.6	31.7	20.9	11.0	9.4			7.2	8.4
Level of Service				C	C	C	B	A			A	A
Approach Delay (s)		0.0			30.0			10.2			8.3	
Approach LOS		A			C			B			A	

Intersection Summary			
HCM 2000 Control Delay	11.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	1.04		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	65.1%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	219	555	126	0	0	0	0	228	70	2	98	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.98						0.96			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4919						3415			1861	
Flt Permitted		0.99						1.00			0.99	
Satd. Flow (perm)		4919						3415			1851	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	219	555	126	0	0	0	0	228	70	2	98	0
RTOR Reduction (vph)	0	50	0	0	0	0	0	47	0	0	0	0
Lane Group Flow (vph)	0	850	0	0	0	0	0	251	0	0	100	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2404						1138			617	
v/s Ratio Prot		c0.17						c0.07				
v/s Ratio Perm											0.05	
v/c Ratio		0.35						0.22			0.16	
Uniform Delay, d1		7.1						10.8			10.6	
Progression Factor		1.00						1.00			1.16	
Incremental Delay, d2		0.4						0.4			0.6	
Delay (s)		7.5						11.2			12.8	
Level of Service		A						B			B	
Approach Delay (s)		7.5			0.0			11.2			12.8	
Approach LOS		A			A			B			B	

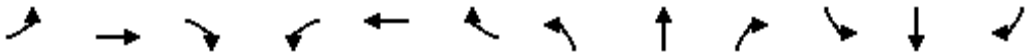
Intersection Summary			
HCM 2000 Control Delay	8.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.30		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	33.2%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	81	66	567	116	358	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.90	0.85		1.00				
Flt Protected					0.99	1.00		0.99				
Satd. Flow (prot)					2724	1297		3147				
Flt Permitted					0.99	1.00		0.99				
Satd. Flow (perm)					2724	1297		3147				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	81	66	567	116	358	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	138	138	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	293	145	0	474	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1331	634		1049				
v/s Ratio Prot					0.11			c0.15				
v/s Ratio Perm						c0.11						
v/c Ratio					0.22	0.23		0.45				
Uniform Delay, d1					6.6	6.6		11.8				
Progression Factor					1.00	1.00		0.87				
Incremental Delay, d2					0.4	0.8		1.4				
Delay (s)					7.0	7.5		11.6				
Level of Service					A	A		B				
Approach Delay (s)		0.0			7.2			11.6			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	8.9	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.32		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	47.4%	ICU Level of Service	A
Analysis Period (min)	15		

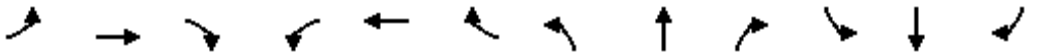
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	232	484	287	0	0	0	0	416	28	106	82	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.96						0.99		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4811						1847		1770	1863	
Flt Permitted		0.99						1.00		0.34	1.00	
Satd. Flow (perm)		4811						1847		642	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	232	484	287	0	0	0	0	416	28	106	82	0
RTOR Reduction (vph)	0	96	0	0	0	0	0	3	0	0	0	0
Lane Group Flow (vph)	0	907	0	0	0	0	0	441	0	106	82	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2213						726		252	732	
v/s Ratio Prot								c0.24			0.04	
v/s Ratio Perm		0.19								0.17		
v/c Ratio		0.41						0.61		0.42	0.11	
Uniform Delay, d1		13.5						18.1		16.5	14.4	
Progression Factor		1.00						1.00		0.68	0.72	
Incremental Delay, d2		0.6						3.8		5.1	0.3	
Delay (s)		14.0						21.9		16.3	10.7	
Level of Service		B						C		B	B	
Approach Delay (s)		14.0			0.0			21.9			13.9	
Approach LOS		B			A			C			B	

Intersection Summary			
HCM 2000 Control Delay	16.2	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.50		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	81.0%	ICU Level of Service	D
Analysis Period (min)	15		

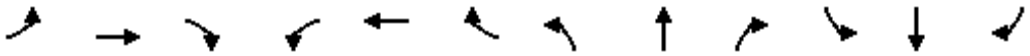
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	9	322	44	309	368	0	0	176	425
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.65	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1083	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	9	322	44	309	368	0	0	176	425
RTOR Reduction (vph)	0	0	0	0	0	33	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	9	322	11	309	368	0	0	176	425
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	642	994			994	1425
v/s Ratio Prot				0.01	c0.19			0.22			0.10	
v/s Ratio Perm						0.01	c0.29					0.30
v/c Ratio				0.02	0.74	0.03	0.48	0.37			0.18	0.30
Uniform Delay, d1				20.7	25.4	20.7	8.7	7.9			6.9	0.0
Progression Factor				1.00	1.00	1.00	0.67	0.70			1.00	1.00
Incremental Delay, d2				0.1	10.8	0.2	2.2	0.9			0.4	0.5
Delay (s)				20.7	36.2	20.9	8.0	6.5			7.3	0.5
Level of Service				C	D	C	A	A			A	A
Approach Delay (s)		0.0			34.0			7.2			2.5	
Approach LOS		A			C			A			A	

Intersection Summary			
HCM 2000 Control Delay	11.6	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.56		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	81.0%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	207	854	118	0	0	0	0	395	73	4	88	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.98						0.98			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4965						3456			1859	
Flt Permitted		0.99						1.00			0.98	
Satd. Flow (perm)		4965						3456			1824	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	207	854	118	0	0	0	0	395	73	4	88	0
RTOR Reduction (vph)	0	30	0	0	0	0	0	34	0	0	0	0
Lane Group Flow (vph)	0	1149	0	0	0	0	0	434	0	0	92	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2427						1152			608	
v/s Ratio Prot		c0.23						c0.13				
v/s Ratio Perm											0.05	
v/c Ratio		0.47						0.38			0.15	
Uniform Delay, d1		7.6						11.4			10.5	
Progression Factor		1.00						1.00			1.18	
Incremental Delay, d2		0.7						0.9			0.5	
Delay (s)		8.3						12.4			13.0	
Level of Service		A						B			B	
Approach Delay (s)		8.3			0.0			12.4			13.0	
Approach LOS		A			A			B			B	

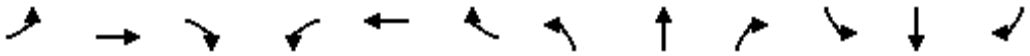
Intersection Summary			
HCM 2000 Control Delay	9.7	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	43.2%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	64	80	478	134	481	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.91	0.85		1.00				
Flt Protected					0.99	1.00		0.99				
Satd. Flow (prot)					2743	1297		3151				
Flt Permitted					0.99	1.00		0.99				
Satd. Flow (perm)					2743	1297		3151				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	64	80	478	134	481	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	84	84	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	299	155	0	615	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1341	634		1050				
v/s Ratio Prot					0.11			c0.20				
v/s Ratio Perm						c0.12						
v/c Ratio					0.22	0.24		0.59				
Uniform Delay, d1					6.6	6.7		12.4				
Progression Factor					1.00	1.00		0.65				
Incremental Delay, d2					0.4	0.9		2.2				
Delay (s)					7.0	7.6		10.3				
Level of Service					A	A		B				
Approach Delay (s)		0.0			7.2			10.3			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	8.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.38		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	47.7%	ICU Level of Service	A
Analysis Period (min)	15		

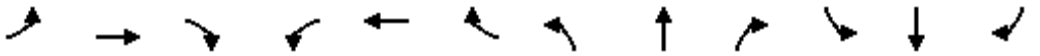
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	260	366	377	0	0	0	0	196	55	66	76	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.94						0.97		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4737						1808		1770	1863	
Flt Permitted		0.99						1.00		0.57	1.00	
Satd. Flow (perm)		4737						1808		1053	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	260	366	377	0	0	0	0	196	55	66	76	0
RTOR Reduction (vph)	0	145	0	0	0	0	0	13	0	0	0	0
Lane Group Flow (vph)	0	858	0	0	0	0	0	238	0	66	76	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2179						711		414	732	
v/s Ratio Prot								c0.13			0.04	
v/s Ratio Perm		0.18								0.06		
v/c Ratio		0.39						0.33		0.16	0.10	
Uniform Delay, d1		13.4						15.9		14.7	14.4	
Progression Factor		1.00						1.00		0.70	0.71	
Incremental Delay, d2		0.5						1.3		0.8	0.3	
Delay (s)		13.9						17.2		11.1	10.6	
Level of Service		B						B		B	B	
Approach Delay (s)		13.9			0.0			17.2			10.8	
Approach LOS		B			A			B			B	

Intersection Summary			
HCM 2000 Control Delay	14.2	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.37		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	67.9%	ICU Level of Service	C
Analysis Period (min)	15		

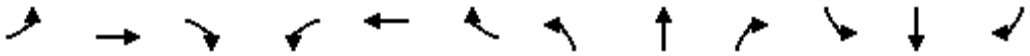
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	7	279	50	251	245	0	0	159	1262
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.66	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1100	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	7	279	50	251	245	0	0	159	1262
RTOR Reduction (vph)	0	0	0	0	0	37	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	7	279	13	251	245	0	0	159	1262
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	652	994			994	1425
v/s Ratio Prot				0.00	0.17			0.15			0.09	
v/s Ratio Perm						0.01	0.23					c0.89
v/c Ratio				0.02	0.64	0.04	0.38	0.25			0.16	0.89
Uniform Delay, d1				20.6	24.6	20.7	8.0	7.3			6.9	0.0
Progression Factor				1.00	1.00	1.00	1.15	1.16			1.00	1.00
Incremental Delay, d2				0.1	7.1	0.2	1.6	0.6			0.3	8.4
Delay (s)				20.7	31.7	20.9	10.9	9.0			7.2	8.4
Level of Service				C	C	C	B	A			A	A
Approach Delay (s)		0.0			29.9			9.9			8.3	
Approach LOS		A			C			A			A	

Intersection Summary					
HCM 2000 Control Delay	11.9	HCM 2000 Level of Service		B	
HCM 2000 Volume to Capacity ratio	1.04				
Actuated Cycle Length (s)	75.0	Sum of lost time (s)		11.0	
Intersection Capacity Utilization	67.9%	ICU Level of Service		C	
Analysis Period (min)	15				

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	222	573	126	0	0	0	0	229	76	2	98	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.98						0.96			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4922						3407			1861	
Flt Permitted		0.99						1.00			0.99	
Satd. Flow (perm)		4922						3407			1851	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	222	573	126	0	0	0	0	229	76	2	98	0
RTOR Reduction (vph)	0	48	0	0	0	0	0	51	0	0	0	0
Lane Group Flow (vph)	0	873	0	0	0	0	0	254	0	0	100	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2406						1135			617	
v/s Ratio Prot		c0.18						c0.07				
v/s Ratio Perm											0.05	
v/c Ratio		0.36						0.22			0.16	
Uniform Delay, d1		7.1						10.8			10.6	
Progression Factor		1.00						1.00			1.17	
Incremental Delay, d2		0.4						0.5			0.6	
Delay (s)		7.6						11.3			12.9	
Level of Service		A						B			B	
Approach Delay (s)		7.6			0.0			11.3			12.9	
Approach LOS		A			A			B			B	

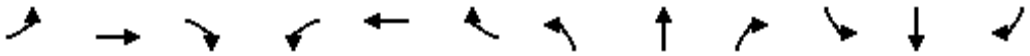
Intersection Summary			
HCM 2000 Control Delay	8.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.31		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	33.8%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	81	71	567	116	363	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.90	0.85		1.00				
Flt Protected					0.99	1.00		0.99				
Satd. Flow (prot)					2728	1297		3147				
Flt Permitted					0.99	1.00		0.99				
Satd. Flow (perm)					2728	1297		3147				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	81	71	567	116	363	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	135	135	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	301	148	0	479	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1333	634		1049				
v/s Ratio Prot					0.11			c0.15				
v/s Ratio Perm						c0.11						
v/c Ratio					0.23	0.23		0.46				
Uniform Delay, d1					6.6	6.6		11.8				
Progression Factor					1.00	1.00		0.88				
Incremental Delay, d2					0.4	0.9		1.4				
Delay (s)					7.0	7.5		11.7				
Level of Service					A	A		B				
Approach Delay (s)		0.0			7.2			11.7			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	9.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.32		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	47.6%	ICU Level of Service	A
Analysis Period (min)	15		

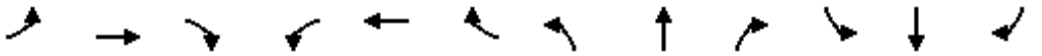
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	232	484	307	0	0	0	0	426	40	106	110	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.95						0.99		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4802						1841		1770	1863	
Flt Permitted		0.99						1.00		0.32	1.00	
Satd. Flow (perm)		4802						1841		598	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	232	484	307	0	0	0	0	426	40	106	110	0
RTOR Reduction (vph)	0	103	0	0	0	0	0	4	0	0	0	0
Lane Group Flow (vph)	0	920	0	0	0	0	0	462	0	106	110	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2208						724		235	732	
v/s Ratio Prot								c0.25			0.06	
v/s Ratio Perm		0.19								0.18		
v/c Ratio		0.42						0.64		0.45	0.15	
Uniform Delay, d1		13.5						18.4		16.8	14.7	
Progression Factor		1.00						1.00		0.73	0.75	
Incremental Delay, d2		0.6						4.3		6.1	0.4	
Delay (s)		14.1						22.7		18.4	11.5	
Level of Service		B						C		B	B	
Approach Delay (s)		14.1			0.0			22.7			14.9	
Approach LOS		B			A			C			B	

Intersection Summary			
HCM 2000 Control Delay	16.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.52		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	83.1%	ICU Level of Service	E
Analysis Period (min)	15		

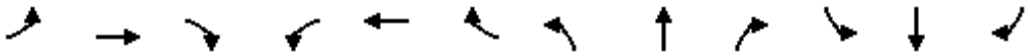
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	30	322	44	317	371	0	0	183	425
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.64	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1076	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	30	322	44	317	371	0	0	183	425
RTOR Reduction (vph)	0	0	0	0	0	33	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	30	322	11	317	371	0	0	183	425
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	638	994			994	1425
v/s Ratio Prot				0.02	c0.19			0.22			0.11	
v/s Ratio Perm						0.01	c0.29					0.30
v/c Ratio				0.07	0.74	0.03	0.50	0.37			0.18	0.30
Uniform Delay, d1				20.9	25.4	20.7	8.8	8.0			7.0	0.0
Progression Factor				1.00	1.00	1.00	0.65	0.69			1.00	1.00
Incremental Delay, d2				0.3	10.8	0.2	2.3	0.9			0.4	0.5
Delay (s)				21.3	36.2	20.9	8.1	6.4			7.4	0.5
Level of Service				C	D	C	A	A			A	A
Approach Delay (s)		0.0			33.4			7.2			2.6	
Approach LOS		A			C			A			A	

Intersection Summary			
HCM 2000 Control Delay	11.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.57		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	83.1%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	209	864	118	0	0	0	0	395	73	4	97	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.99						0.98			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4966						3456			1859	
Flt Permitted		0.99						1.00			0.98	
Satd. Flow (perm)		4966						3456			1828	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	209	864	118	0	0	0	0	395	73	4	97	0
RTOR Reduction (vph)	0	30	0	0	0	0	0	34	0	0	0	0
Lane Group Flow (vph)	0	1161	0	0	0	0	0	434	0	0	101	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2427						1152			609	
v/s Ratio Prot		c0.23						c0.13				
v/s Ratio Perm											0.06	
v/c Ratio		0.48						0.38			0.17	
Uniform Delay, d1		7.7						11.4			10.6	
Progression Factor		1.00						1.00			1.20	
Incremental Delay, d2		0.7						0.9			0.6	
Delay (s)		8.4						12.4			13.3	
Level of Service		A						B			B	
Approach Delay (s)		8.4			0.0			12.4			13.3	
Approach LOS		A			A			B			B	

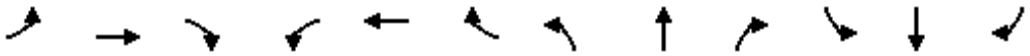
Intersection Summary			
HCM 2000 Control Delay	9.7	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.44		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	43.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	73	100	478	134	483	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.91	0.85		1.00				
Flt Protected					0.99	1.00		0.99				
Satd. Flow (prot)					2761	1297		3151				
Flt Permitted					0.99	1.00		0.99				
Satd. Flow (perm)					2761	1297		3151				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	73	100	478	134	483	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	83	83	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	329	156	0	617	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1349	634		1050				
v/s Ratio Prot					0.12			c0.20				
v/s Ratio Perm						c0.12						
v/c Ratio					0.24	0.25		0.59				
Uniform Delay, d1					6.7	6.7		12.4				
Progression Factor					1.00	1.00		0.65				
Incremental Delay, d2					0.4	0.9		2.2				
Delay (s)					7.1	7.6		10.3				
Level of Service					A	A		B				
Approach Delay (s)		0.0			7.3			10.3			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	8.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.38		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	47.7%	ICU Level of Service	A
Analysis Period (min)	15		

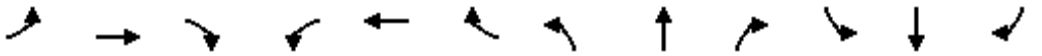
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	311	438	514	0	0	0	0	236	41	66	99	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.94						0.98		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4717						1826		1770	1863	
Flt Permitted		0.99						1.00		0.53	1.00	
Satd. Flow (perm)		4717						1826		994	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	311	438	514	0	0	0	0	236	41	66	99	0
RTOR Reduction (vph)	0	166	0	0	0	0	0	8	0	0	0	0
Lane Group Flow (vph)	0	1097	0	0	0	0	0	269	0	66	99	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2169						718		390	732	
v/s Ratio Prot								c0.15			0.05	
v/s Ratio Perm		0.23								0.07		
v/c Ratio		0.51						0.37		0.17	0.14	
Uniform Delay, d1		14.3						16.2		14.8	14.6	
Progression Factor		1.00						1.00		0.67	0.69	
Incremental Delay, d2		0.8						1.5		0.9	0.4	
Delay (s)		15.1						17.7		10.9	10.4	
Level of Service		B						B		B	B	
Approach Delay (s)		15.1			0.0			17.7			10.6	
Approach LOS		B			A			B			B	

Intersection Summary			
HCM 2000 Control Delay	15.1	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.44		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	79.3%	ICU Level of Service	D
Analysis Period (min)	15		

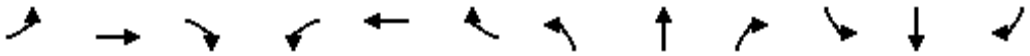
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	2	311	56	298	281	0	0	206	1408
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.63	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1054	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	2	311	56	298	281	0	0	206	1408
RTOR Reduction (vph)	0	0	0	0	0	41	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	2	311	15	298	281	0	0	206	1408
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	625	994			994	1425
v/s Ratio Prot				0.00	0.19			0.17			0.12	
v/s Ratio Perm						0.01	0.28					c0.99
v/c Ratio				0.00	0.71	0.04	0.48	0.28			0.21	0.99
Uniform Delay, d1				20.6	25.2	20.7	8.6	7.5			7.1	0.0
Progression Factor				1.00	1.00	1.00	1.23	1.21			1.00	1.00
Incremental Delay, d2				0.0	9.7	0.2	2.4	0.6			0.5	21.2
Delay (s)				20.6	34.9	20.9	13.0	9.7			7.5	21.2
Level of Service				C	C	C	B	A			A	C
Approach Delay (s)		0.0			32.7			11.4			19.4	
Approach LOS		A			C			B			B	

Intersection Summary			
HCM 2000 Control Delay	19.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	1.16		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	79.3%	ICU Level of Service	D
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	269	682	155	0	0	0	0	608	233	3	259	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.98						0.96			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4919						3392			1862	
Flt Permitted		0.99						1.00			0.99	
Satd. Flow (perm)		4919						3392			1845	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	269	682	155	0	0	0	0	608	233	3	259	0
RTOR Reduction (vph)	0	50	0	0	0	0	0	89	0	0	0	0
Lane Group Flow (vph)	0	1056	0	0	0	0	0	752	0	0	262	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2404						1130			615	
v/s Ratio Prot		c0.21						c0.22				
v/s Ratio Perm											0.14	
v/c Ratio		0.44						0.67			0.43	
Uniform Delay, d1		7.5						12.9			11.7	
Progression Factor		1.00						1.00			1.19	
Incremental Delay, d2		0.6						3.1			2.1	
Delay (s)		8.1						16.0			16.0	
Level of Service		A						B			B	
Approach Delay (s)		8.1			0.0			16.0			16.0	
Approach LOS		A			A			B			B	

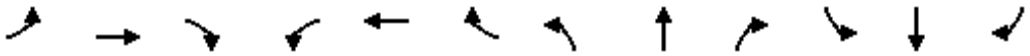
Intersection Summary			
HCM 2000 Control Delay	12.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.53		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	53.0%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	179	61	527	150	482	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.92	0.85		1.00				
Flt Protected					0.98	1.00		0.99				
Satd. Flow (prot)					2762	1297		3148				
Flt Permitted					0.98	1.00		0.99				
Satd. Flow (perm)					2762	1297		3148				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	179	61	527	150	482	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	83	83	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	421	180	0	632	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1350	634		1049				
v/s Ratio Prot					c0.15			c0.20				
v/s Ratio Perm						0.14						
v/c Ratio					0.31	0.28		0.60				
Uniform Delay, d1					6.9	6.8		12.5				
Progression Factor					1.00	1.00		0.79				
Incremental Delay, d2					0.6	1.1		2.0				
Delay (s)					7.5	7.9		11.9				
Level of Service					A	A		B				
Approach Delay (s)		0.0			7.7			11.9			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	9.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	50.5%	ICU Level of Service	A
Analysis Period (min)	15		

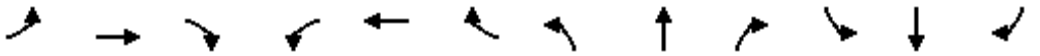
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	298	622	450	0	0	0	0	691	39	106	117	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.95						0.99		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4783						1849		1770	1863	
Flt Permitted		0.99						1.00		0.14	1.00	
Satd. Flow (perm)		4783						1849		253	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	298	622	450	0	0	0	0	691	39	106	117	0
RTOR Reduction (vph)	0	117	0	0	0	0	0	2	0	0	0	0
Lane Group Flow (vph)	0	1253	0	0	0	0	0	728	0	106	117	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2200						727		99	732	
v/s Ratio Prot								0.39			0.06	
v/s Ratio Perm		0.26								c0.42		
v/c Ratio		0.57						1.00		1.07	0.16	
Uniform Delay, d1		14.8						22.8		22.8	14.7	
Progression Factor		1.00						1.00		0.69	0.70	
Incremental Delay, d2		1.1						33.6		110.1	0.5	
Delay (s)		15.9						56.3		125.8	10.7	
Level of Service		B						E		F	B	
Approach Delay (s)		15.9			0.0			56.3			65.4	
Approach LOS		B			A			E			E	

Intersection Summary			
HCM 2000 Control Delay	33.4	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.80		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	112.0%	ICU Level of Service	H
Analysis Period (min)	15		

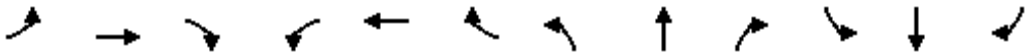
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	11	389	53	474	434	0	0	248	514
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.61	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1014	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	11	389	53	474	434	0	0	248	514
RTOR Reduction (vph)	0	0	0	0	0	39	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	11	389	14	474	434	0	0	248	514
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	601	994			994	1425
v/s Ratio Prot				0.01	c0.23			0.26			0.15	
v/s Ratio Perm						0.01	c0.47					0.36
v/c Ratio				0.03	0.89	0.04	0.79	0.44			0.25	0.36
Uniform Delay, d1				20.7	26.8	20.7	11.7	8.4			7.3	0.0
Progression Factor				1.00	1.00	1.00	0.59	0.59			1.00	1.00
Incremental Delay, d2				0.1	23.4	0.2	4.8	0.6			0.6	0.7
Delay (s)				20.8	50.2	20.9	11.7	5.5			7.9	0.7
Level of Service				C	D	C	B	A			A	A
Approach Delay (s)		0.0			46.1			8.7			3.0	
Approach LOS		A			D			A			A	

Intersection Summary			
HCM 2000 Control Delay	14.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.82		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	112.0%	ICU Level of Service	H
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	246	1016	140	0	0	0	0	917	396	6	261	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.99						0.95			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4966						3379			1861	
Flt Permitted		0.99						1.00			0.60	
Satd. Flow (perm)		4966						3379			1111	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	246	1016	140	0	0	0	0	917	396	6	261	0
RTOR Reduction (vph)	0	30	0	0	0	0	0	45	0	0	0	0
Lane Group Flow (vph)	0	1372	0	0	0	0	0	1268	0	0	267	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2427						1126			370	
v/s Ratio Prot		c0.28						c0.38				
v/s Ratio Perm											0.24	
v/c Ratio		0.57						1.13			0.72	
Uniform Delay, d1		8.1						15.0			13.2	
Progression Factor		1.00						1.00			1.24	
Incremental Delay, d2		1.0						68.4			11.3	
Delay (s)		9.1						83.4			27.6	
Level of Service		A						F			C	
Approach Delay (s)		9.1			0.0			83.4			27.6	
Approach LOS		A			A			F			C	

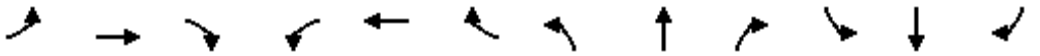
Intersection Summary			
HCM 2000 Control Delay	43.5	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.79		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	72.4%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	198	85	506	163	678	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.93	0.85		1.00				
Flt Protected					0.98	1.00		0.99				
Satd. Flow (prot)					2784	1297		3155				
Flt Permitted					0.98	1.00		0.99				
Satd. Flow (perm)					2784	1297		3155				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	198	85	506	163	678	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	37	37	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	499	216	0	841	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1361	634		1051				
v/s Ratio Prot					c0.18			c0.27				
v/s Ratio Perm						0.17						
v/c Ratio					0.37	0.34		0.80				
Uniform Delay, d1					7.2	7.1		13.6				
Progression Factor					1.00	1.00		0.92				
Incremental Delay, d2					0.8	1.5		0.6				
Delay (s)					7.9	8.5		13.1				
Level of Service					A	A		B				
Approach Delay (s)		0.0			8.1			13.1			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	10.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.54		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	56.0%	ICU Level of Service	B
Analysis Period (min)	15		

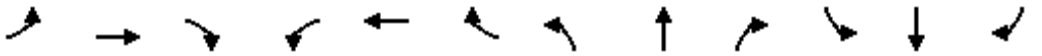
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	311	438	518	0	0	0	0	262	63	66	106	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.94						0.97		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4716						1814		1770	1863	
Flt Permitted		0.99						1.00		0.48	1.00	
Satd. Flow (perm)		4716						1814		889	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	311	438	518	0	0	0	0	262	63	66	106	0
RTOR Reduction (vph)	0	167	0	0	0	0	0	12	0	0	0	0
Lane Group Flow (vph)	0	1100	0	0	0	0	0	313	0	66	106	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2169						713		349	732	
v/s Ratio Prot								c0.17			0.06	
v/s Ratio Perm		0.23								0.07		
v/c Ratio		0.51						0.44		0.19	0.14	
Uniform Delay, d1		14.3						16.7		14.9	14.6	
Progression Factor		1.00						1.00		0.68	0.70	
Incremental Delay, d2		0.9						2.0		1.2	0.4	
Delay (s)		15.1						18.7		11.3	10.6	
Level of Service		B						B		B	B	
Approach Delay (s)		15.1			0.0			18.7			10.9	
Approach LOS		B			A			B			B	

Intersection Summary			
HCM 2000 Control Delay	15.4	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.48		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	82.1%	ICU Level of Service	E
Analysis Period (min)	15		

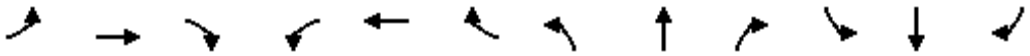
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	7	311	56	317	288	0	0	207	1408
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.63	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1053	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	7	311	56	317	288	0	0	207	1408
RTOR Reduction (vph)	0	0	0	0	0	41	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	7	311	15	317	288	0	0	207	1408
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	624	994			994	1425
v/s Ratio Prot				0.00	0.19			0.17			0.12	
v/s Ratio Perm						0.01	0.30					c0.99
v/c Ratio				0.02	0.71	0.04	0.51	0.29			0.21	0.99
Uniform Delay, d1				20.6	25.2	20.7	8.9	7.5			7.1	0.0
Progression Factor				1.00	1.00	1.00	1.17	1.15			1.00	1.00
Incremental Delay, d2				0.1	9.7	0.2	2.6	0.7			0.5	21.2
Delay (s)				20.7	34.9	20.9	13.0	9.3			7.6	21.2
Level of Service				C	C	C	B	A			A	C
Approach Delay (s)		0.0			32.5			11.2			19.4	
Approach LOS		A			C			B			B	

Intersection Summary			
HCM 2000 Control Delay	19.4	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	1.16		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	82.1%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	272	700	155	0	0	0	0	609	239	3	259	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.98						0.96			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4921						3390			1862	
Flt Permitted		0.99						1.00			0.99	
Satd. Flow (perm)		4921						3390			1845	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	272	700	155	0	0	0	0	609	239	3	259	0
RTOR Reduction (vph)	0	48	0	0	0	0	0	93	0	0	0	0
Lane Group Flow (vph)	0	1079	0	0	0	0	0	755	0	0	262	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2405						1130			615	
v/s Ratio Prot		c0.22						c0.22				
v/s Ratio Perm											0.14	
v/c Ratio		0.45						0.67			0.43	
Uniform Delay, d1		7.5						12.9			11.7	
Progression Factor		1.00						1.00			1.20	
Incremental Delay, d2		0.6						3.1			2.1	
Delay (s)		8.1						16.0			16.1	
Level of Service		A						B			B	
Approach Delay (s)		8.1			0.0			16.0			16.1	
Approach LOS		A			A			B			B	

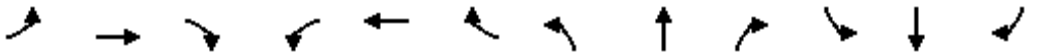
Intersection Summary			
HCM 2000 Control Delay	12.0	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.54		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	53.6%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	179	66	527	150	487	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.92	0.85		1.00				
Flt Protected					0.98	1.00		0.99				
Satd. Flow (prot)					2765	1297		3148				
Flt Permitted					0.98	1.00		0.99				
Satd. Flow (perm)					2765	1297		3148				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	179	66	527	150	487	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	82	82	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	427	181	0	637	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1351	634		1049				
v/s Ratio Prot					c0.15			c0.20				
v/s Ratio Perm						0.14						
v/c Ratio					0.32	0.29		0.61				
Uniform Delay, d1					7.0	6.8		12.5				
Progression Factor					1.00	1.00		0.79				
Incremental Delay, d2					0.6	1.1		2.1				
Delay (s)					7.6	8.0		12.0				
Level of Service					A	A		B				
Approach Delay (s)		0.0			7.7			12.0			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	9.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.43		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	50.6%	ICU Level of Service	A
Analysis Period (min)	15		

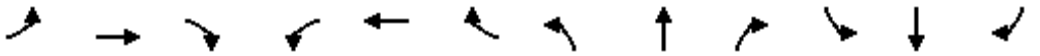
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	298	622	470	0	0	0	0	701	51	106	145	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		5.5						5.5		5.5	5.5	
Lane Util. Factor		0.91						1.00		1.00	1.00	
Frt		0.95						0.99		1.00	1.00	
Flt Protected		0.99						1.00		0.95	1.00	
Satd. Flow (prot)		4776						1846		1770	1863	
Flt Permitted		0.99						1.00		0.14	1.00	
Satd. Flow (perm)		4776						1846		253	1863	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	298	622	470	0	0	0	0	701	51	106	145	0
RTOR Reduction (vph)	0	123	0	0	0	0	0	4	0	0	0	0
Lane Group Flow (vph)	0	1267	0	0	0	0	0	748	0	106	145	0
Turn Type	Perm	NA						NA		Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4									6		
Actuated Green, G (s)		34.5						29.5		29.5	29.5	
Effective Green, g (s)		34.5						29.5		29.5	29.5	
Actuated g/C Ratio		0.46						0.39		0.39	0.39	
Clearance Time (s)		5.5						5.5		5.5	5.5	
Lane Grp Cap (vph)		2196						726		99	732	
v/s Ratio Prot								0.41			0.08	
v/s Ratio Perm		0.27								c0.42		
v/c Ratio		0.58						1.03		1.07	0.20	
Uniform Delay, d1		14.9						22.8		22.8	15.0	
Progression Factor		1.00						1.00		0.74	0.72	
Incremental Delay, d2		1.1						41.5		110.1	0.6	
Delay (s)		16.0						64.3		126.9	11.4	
Level of Service		B						E		F	B	
Approach Delay (s)		16.0			0.0			64.3			60.2	
Approach LOS		B			A			E			E	

Intersection Summary			
HCM 2000 Control Delay	35.8	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.80		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	114.1%	ICU Level of Service	H
Analysis Period (min)	15		

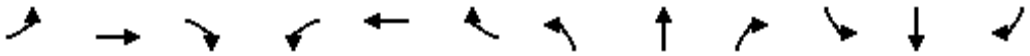
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	32	389	53	482	437	0	0	255	514
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)				5.5	5.5	5.5	5.5	5.5			5.5	4.0
Lane Util. Factor				1.00	1.00	1.00	1.00	1.00			1.00	1.00
Frt				1.00	1.00	0.85	1.00	1.00			1.00	0.85
Flt Protected				0.95	1.00	1.00	0.95	1.00			1.00	1.00
Satd. Flow (prot)				1593	1676	1425	1593	1676			1676	1425
Flt Permitted				0.95	1.00	1.00	0.60	1.00			1.00	1.00
Satd. Flow (perm)				1593	1676	1425	1008	1676			1676	1425
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	32	389	53	482	437	0	0	255	514
RTOR Reduction (vph)	0	0	0	0	0	39	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	32	389	14	482	437	0	0	255	514
Turn Type				Split	NA	Perm	Perm	NA			NA	Free
Protected Phases				8	8			2			6	
Permitted Phases						8	2					Free
Actuated Green, G (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Effective Green, g (s)				19.5	19.5	19.5	44.5	44.5			44.5	75.0
Actuated g/C Ratio				0.26	0.26	0.26	0.59	0.59			0.59	1.00
Clearance Time (s)				5.5	5.5	5.5	5.5	5.5			5.5	
Lane Grp Cap (vph)				414	435	370	598	994			994	1425
v/s Ratio Prot				0.02	c0.23			0.26			0.15	
v/s Ratio Perm						0.01	c0.48					0.36
v/c Ratio				0.08	0.89	0.04	0.81	0.44			0.26	0.36
Uniform Delay, d1				21.0	26.8	20.7	11.9	8.4			7.3	0.0
Progression Factor				1.00	1.00	1.00	0.58	0.58			1.00	1.00
Incremental Delay, d2				0.4	23.4	0.2	4.9	0.6			0.6	0.7
Delay (s)				21.3	50.2	20.9	11.8	5.4			7.9	0.7
Level of Service				C	D	C	B	A			A	A
Approach Delay (s)		0.0			45.0			8.8			3.1	
Approach LOS		A			D			A			A	

Intersection Summary			
HCM 2000 Control Delay	14.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.83		
Actuated Cycle Length (s)	75.0	Sum of lost time (s)	11.0
Intersection Capacity Utilization	114.1%	ICU Level of Service	H
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	248	1026	140	0	0	0	0	917	396	6	270	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		4.0						4.0			4.0	
Lane Util. Factor		0.91						0.95			1.00	
Frt		0.99						0.95			1.00	
Flt Protected		0.99						1.00			1.00	
Satd. Flow (prot)		4966						3379			1861	
Flt Permitted		0.99						1.00			0.60	
Satd. Flow (perm)		4966						3379			1112	
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	248	1026	140	0	0	0	0	917	396	6	270	0
RTOR Reduction (vph)	0	30	0	0	0	0	0	44	0	0	0	0
Lane Group Flow (vph)	0	1384	0	0	0	0	0	1269	0	0	276	0
Turn Type	Split	NA						NA		Perm	NA	
Protected Phases	4	4						2			6	
Permitted Phases										6		
Actuated Green, G (s)		22.0						15.0			15.0	
Effective Green, g (s)		22.0						15.0			15.0	
Actuated g/C Ratio		0.49						0.33			0.33	
Clearance Time (s)		4.0						4.0			4.0	
Lane Grp Cap (vph)		2427						1126			370	
v/s Ratio Prot		c0.28						c0.38				
v/s Ratio Perm											0.25	
v/c Ratio		0.57						1.13			0.75	
Uniform Delay, d1		8.2						15.0			13.3	
Progression Factor		1.00						1.00			1.24	
Incremental Delay, d2		1.0						68.9			12.5	
Delay (s)		9.1						83.9			29.0	
Level of Service		A						F			C	
Approach Delay (s)		9.1			0.0			83.9			29.0	
Approach LOS		A			A			F			C	

Intersection Summary			
HCM 2000 Control Delay	43.7	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.80		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	72.7%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	0	0	207	105	506	163	680	0	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)					4.0	4.0		4.0				
Lane Util. Factor					0.91	0.91		0.95				
Frt					0.93	0.85		1.00				
Flt Protected					0.98	1.00		0.99				
Satd. Flow (prot)					2797	1297		3155				
Flt Permitted					0.98	1.00		0.99				
Satd. Flow (perm)					2797	1297		3155				
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	0	0	0	207	105	506	163	680	0	0	0	0
RTOR Reduction (vph)	0	0	0	0	37	37	0	0	0	0	0	0
Lane Group Flow (vph)	0	0	0	0	523	221	0	843	0	0	0	0
Turn Type				Split	NA	Perm	Split	NA				
Protected Phases				8	8		2	2				
Permitted Phases						8						
Actuated Green, G (s)					22.0	22.0		15.0				
Effective Green, g (s)					22.0	22.0		15.0				
Actuated g/C Ratio					0.49	0.49		0.33				
Clearance Time (s)					4.0	4.0		4.0				
Lane Grp Cap (vph)					1367	634		1051				
v/s Ratio Prot					c0.19			c0.27				
v/s Ratio Perm						0.17						
v/c Ratio					0.38	0.35		0.80				
Uniform Delay, d1					7.2	7.1		13.6				
Progression Factor					1.00	1.00		0.92				
Incremental Delay, d2					0.8	1.5		0.6				
Delay (s)					8.0	8.6		13.1				
Level of Service					A	A		B				
Approach Delay (s)		0.0			8.2			13.1			0.0	
Approach LOS		A			A			B			A	

Intersection Summary			
HCM 2000 Control Delay	10.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.55		
Actuated Cycle Length (s)	45.0	Sum of lost time (s)	8.0
Intersection Capacity Utilization	56.0%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

APPENDIX D

Transportation –
Memo: Intersection Operation Results
Comparison to LMSP

FEHR PEERS

MEMORANDUM

Date: June 17, 2015

To: Lynette Dias and Hayley Cox, Urban Planning Partners, Inc.

From: Huma Husain and Sam Tabibnia

Subject: 200 4th Street – Intersection Operation Results Comparison

OK15-0045

We recently submitted the Jack London Square 4th & Madison Project Administrative Draft EIR (EIR) for review. The intersection analysis for the EIR was based on the analysis completed for the Jack London Square Redevelopment Project Addendum to the 2004 EIR (JLS). These intersection results differ from those presented in the Lake Merritt Station Area Plan EIR (LMSP). This memorandum summarizes the differences between the JLS and LMSP intersection analysis results and assumptions and summarizes those that were used for the 4th and Madison EIR. The memo focuses on the following four study intersections:

- Jackson Street/5th Street
- Jackson Street/6th Street
- Oak Street/5th Street
- Oak Street/6th Street

Table 1 compares the delay and levels of service (LOS) results from the LMSP and JLS traffic studies at these four intersections. As shown in the table, the results of the LOS analysis have some significant differences, particularly in the Cumulative 2035 plus Project scenarios. The JLS study reports the four study intersections operating at LOS C or better under all analyzed scenarios, while the LMSP study reports LOS E or LOS F for the four study intersections under the Cumulative 2035 plus Project scenario. The differences in results between the two studies can generally be attributed to the following:

- LMSP assumes a peak hour factor for each intersection turning movement while JLS assumes a global peak hour factor of 1.0. This difference has a substantial effect on LOS.
- LMSP generally used higher Cumulative 2035 traffic volumes.
- LMSP assumptions, such as use of pedestrian volumes, lost time, and cycle lengths, contribute to a higher intersection delay than JLS.
- LMSP and JLS assume different lane configurations for all four intersections.

This remainder of this memorandum compares the intersection volumes, analysis assumptions, and lane configurations in further detail for Existing and Cumulative 2035 plus Project scenarios for the two projects.

For the 4th and Madison EIR analysis, we used JLS intersection volumes and assumptions as a base because they were the latest published data; however, we adjusted factors, such as the lane configurations and cycle lengths, to reflect actual existing conditions.

TABLE 1 – INTERSECTION LOS COMPARISON

Scenario[1]	Jackson/5th		Jackson/6th		Oak/5th		Oak/6th	
	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
LMSP EIR								
EX AM	15.9	B	15.9	B	12.3	B	11.1	B
EX PM	25.5	C	18.5	B	43.1	D	9.0	A
2035 + P AM	**58.4**	**E**	**412.8**	**F**	**148.4**	**F**	**395.3**	**F**
2035 + P PM	**113.2**	**F**	**187.1**	**F**	**129.0**	**F**	**451.6**	**F**
JLS ADDENDUM								
EX AM	13.9	B	11.9	B	8.8	A	8.9	A
EX PM	16.2	B	11.6	B	9.7	A	8.8	A
2035 + P AM	15.2	B	19.5	B	12.3	B	9.9	A
2035 + P PM	30.9	C	14.6	B	31.8	C	11.1	B

1. EX = Existing Scenario, 2035+P = Cumulative 2035 plus Project scenario
Source: Jack London Square EIR Addendum and Lake Merritt Specific Plan EIR

INTERSECTION VOLUMES

Table 2 summarizes the AM and PM peak hour intersection volumes for the two projects. LMSP used volumes collected in 2012 and JLS used volumes collected in 2013. The volumes under Existing conditions do not vary by more than five percent between the two projects, which is within the expected day-to-day fluctuation in traffic volumes, with the exception of the Jackson Street/6th Street intersection during the AM peak hour, where LMSP has 24 percent less volume. For this intersection, JLS has more than double the southbound right-turn volume.

TABLE 2: PEAK HOUR INTERSECTION VOLUMES

Scenario[1]	Jackson/5th			Jackson/6th			Oak/5th			Oak/6th		
	LMSP	JLS	% Diff	LMSP	JLS	% Diff	LMSP	JLS	% Diff	LMSP	JLS	% Diff
EX AM	1,342	1,337	0%	1,796	2,221	-24%	1,306	1,298	1%	1,196	1,188	1%
EX PM	1,596	1,635	-2%	1,588	1,635	-3%	1,790	1,739	3%	1,304	1,237	5%
2035 + P AM	1,676	1,695	-1%	2,286	2,575	-13%	2,221	2,242	-1%	2,150	1,381	36%
2035 + P PM	2,650	2,319	13%	2,413	2,107	13%	2,416	2,934	-21%	2,207	1,630	26%

1. EX = Existing Scenario, 2035+P = Cumulative 2035 plus Project scenario

Source: Jack London Square EIR Addendum and Lake Merritt Specific Plan

Both reports used the Alameda County Transportation Commission's 2009 Travel Demand Model to forecast 2035 volumes. Under Cumulative 2035 plus Project conditions, the volume differences are more varied across the two reports and peak hours. During the AM peak hour, JLS forecasts are higher at all intersections except the Oak Street/6th Street intersection, where the northbound approach volume for LMSP is more than double the JLS northbound approach volume. During the PM peak hour, LMSP forecasts are higher at all intersections except the Oak Street/5th Street intersection, where the northbound and southbound approach volumes are nearly double for JLS.

INTERSECTION ANALYSIS ASSUMPTIONS

Both JLS and LMSP analyzed the four intersections using Synchro 8 software and HCM 2000. However, the projects differed in the following assumptions:

- Peak Hour Factor (PHF) – As specified by the City of Oakland Transportation Impact Study Guidelines, JLS uses a universal PHF of 1.0. The PHF for LMSP varies by intersection movement, which generally ranges between 0.80 and 0.95. Consistent with the JLS assumptions and City's guidelines, we used a PHF of 1.0.
- Conflicting Pedestrian Volumes – LMSP accounts for pedestrian volumes. JLS does not. We included the LMSP pedestrian volumes in our analysis.
- Total Lost Time – LMSP uses a universal lost time of 4.0 seconds. JLS uses 5.5 seconds for the Jackson Street intersections and 4.0 seconds for the Oak Street intersections. Our analysis is consistent with the JLS assumptions.
- Cycle Length/Signal Timings – LMSP and JLS use different cycle lengths and signal timings. Based on our review of City's signal timing sheets and field observations, the LMSP assumptions are correct. We used these assumptions in our analysis.

INTERSECTION LANE CONFIGURATIONS

The JLS and LMSP projects assume different lane configurations at each of the four study intersections. The lane configurations do not change between Existing and Cumulative 2035 plus Project scenarios in either report. The differences are as follows:

- **Jackson Street/5th Street** – JLS assumes two southbound lanes, one through lane and one left-turn only lane. LMSP assumes one southbound shared left-turn/through lane. The LMSP configuration is correct and is used in our analysis.
- **Jackson Street/6th Street** - JLS includes the westbound right-turn only movement as part of the signalized intersection, while LMSP includes this movement as a stop-

controlled right-turn, not controlled by the signal. For JLS, the southbound approach is configured with two lanes, a through lane and right-turn only lane. The LMSP includes two southbound lanes, a shared through/right-turn lane and a channelized right-turn only lane with a yield bar and merge lane in the westbound movement. The LMSP configuration is correct and is used in our analysis.

- **Oak Street/5th Street** – JLS assumes three eastbound lanes, one shared through/right-turn lane, one through lane, and one through/left-turn lane. LMSP assumes three eastbound lanes as well, but shows a right-turn only lane instead of a shared through/right-turn lane. In the northbound direction, JLS assumes two lanes, one through lane and one shared through/right-turn lane. LMSP assumes one northbound shared lane. The JLS configuration is correct and is used in our analysis.
- **Oak Street/6th Street** – JLS does not include the one-way westbound 6th Street approach. LMSP includes this approach. The LMSP configuration is correct and is used for our analysis.

Please contact us with questions or concerns.

APPENDIX E

Air Quality and Greenhouse Gas Emissions – CalEEMod, Report, HRA Dispersion Model and ISCST3 Model

Jack London Square 4th and Madison Project

San Francisco Bay Area Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	11.73	1000sqft	0.00	11,734.00	0
Enclosed Parking with Elevator	147.00	1000sqft	3.37	147,000.00	0
Health Club	4.10	1000sqft	0.00	4,104.00	0
Apartments Mid Rise	330.00	Dwelling Unit	2.07	362,455.00	944
Convenience Market (24 Hour)	2.96	1000sqft	0.00	2,962.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - In accordance with CalEEMod Guidelines, the total lot acreage (2.07 acres) was assigned to the residential portion. The default square footage for the residential portion changed based on the project description.

Construction Phase - No site preparation (i.e., vegetation removal) included in the project.

Demolition -

Architectural Coating - BAAQMD Regulation 8, Rule 3: Architechtural Coatings. Assumed nonflat-high-gloss coatings.

Vehicle Trips - Fehr & Peers, 2015. Assigned the 1,324 daily trips to residential.

Woodstoves - No woodstoves or fireplaces.

Area Coating - BAAQMD Regulation 8, Rule 3: Architechtural Coatings. Assumed nonflat-high-gloss coatings.

Water And Wastewater - EBMUD services at the project site and applies 100 percent aerobic process and 100 percent cogeneration

Construction Off-road Equipment Mitigation - Incorporates SCA for dust control and off-road heavy diesel engines meet CARB's most recent certification standard.

Mobile Land Use Mitigation -

Area Mitigation - BAAQMD Reg 8, Rule 3

Waste Mitigation -

Grading - Total acres adjusted to project size.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	15
tblAreaCoating	Area_EF_Residential_Exterior	250	15
tblAreaCoating	Area_EF_Residential_Interior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	150

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	230.00
tblGrading	AcresOfGrading	3.00	2.07
tblLandUse	LandUseSquareFeet	11,730.00	11,734.00
tblLandUse	LandUseSquareFeet	4,100.00	4,104.00
tblLandUse	LandUseSquareFeet	330,000.00	362,455.00
tblLandUse	LandUseSquareFeet	2,960.00	2,962.00
tblLandUse	LotAcreage	0.27	0.00
tblLandUse	LotAcreage	0.09	0.00
tblLandUse	LotAcreage	8.68	2.07

tblLandUse	LotAcreage	0.07	0.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	4.01
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaDigestCogenCombDigestGasPercent	0.00	100.00
tblWater	AnaDigestCogenCombDigestGasPercent	0.00	100.00
tblWater	AnaDigestCogenCombDigestGasPercent	0.00	100.00
tblWater	AnaDigestCogenCombDigestGasPercent	0.00	100.00
tblWater	AnaDigestCogenCombDigestGasPercent	0.00	100.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	2.9698	4.1616	5.1807	8.8100e-003	0.4189	0.2238	0.6427	0.1140	0.2132	0.3272	0.0000	730.2329	730.2329	0.0815	0.0000	731.9442
2017	2.2787	6.2100e-003	0.0119	2.0000e-005	1.3800e-003	4.4000e-004	1.8300e-003	3.7000e-004	4.4000e-004	8.1000e-004	0.0000	1.8459	1.8459	1.3000e-004	0.0000	1.8486
Total	**5.2485**	**4.1678**	**5.1926**	**8.8300e-003**	**0.4203**	**0.2242**	**0.6445**	**0.1144**	**0.2137**	**0.3280**	**0.0000**	**732.0788**	**732.0788**	**0.0816**	**0.0000**	**733.7928**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	2.5473	1.4108	4.8820	8.8100e-003	0.3640	0.0184	0.3824	0.0991	0.0173	0.1164	0.0000	730.2326	730.2326	0.0815	0.0000	731.9438
2017	2.2779	1.0700e-003	0.0118	2.0000e-005	1.2800e-003	2.0000e-005	1.3000e-003	3.4000e-004	2.0000e-005	3.6000e-004	0.0000	1.8459	1.8459	1.3000e-004	0.0000	1.8486
Total	**4.8253**	**1.4119**	**4.8938**	**8.8300e-003**	**0.3653**	**0.0184**	**0.3837**	**0.0994**	**0.0173**	**0.1167**	**0.0000**	**732.0785**	**732.0785**	**0.0816**	**0.0000**	**733.7925**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	8.06	66.12	5.76	0.00	13.10	91.79	40.47	13.06	91.91	64.42	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7282	0.0377	3.1251	1.3900e-003		0.1140	0.1140		0.1140	0.1140	11.7297	12.7312	24.4609	0.0436	4.5000e-004	25.5159
Energy	0.0177	0.1522	0.0720	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	589.3356	589.3356	0.0221	7.0800e-003	591.9957
Mobile	1.9991	3.5674	17.1445	0.0309	2.1063	0.0452	2.1515	0.5653	0.0416	0.6069	0.0000	2,308.1801	2,308.1801	0.0968	0.0000	2,310.2135
Waste						0.0000	0.0000		0.0000	0.0000	39.5792	0.0000	39.5792	2.3391	0.0000	88.6995
Water						0.0000	0.0000		0.0000	0.0000	8.5080	49.7183	58.2263	0.0315	0.0190	64.7684
Total	**4.7450**	**3.7572**	**20.3416**	**0.0333**	**2.1063**	**0.1715**	**2.2777**	**0.5653**	**0.1679**	**0.7331**	**59.8169**	**2,959.9652**	**3,019.7821**	**2.5331**	**0.0265**	**3,081.1929**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5948	0.0287	2.4692	1.3000e-004		0.0135	0.0135		0.0135	0.0135	0.0000	4.0055	4.0055	3.9700e-003	0.0000	4.0889
Energy	0.0177	0.1522	0.0720	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	589.3356	589.3356	0.0221	7.0800e-003	591.9957
Mobile	1.9313	3.1128	15.6174	0.0259	1.7377	0.0384	1.7761	0.4663	0.0353	0.5017	0.0000	1,927.9712	1,927.9712	0.0831	0.0000	1,929.7169
Waste						0.0000	0.0000		0.0000	0.0000	19.7896	0.0000	19.7896	1.1695	0.0000	44.3497
Water						0.0000	0.0000		0.0000	0.0000	8.5080	49.7183	58.2263	0.0317	0.0190	64.7819
Total	**4.5438**	**3.2936**	**18.1586**	**0.0269**	**1.7377**	**0.0641**	**1.8017**	**0.4663**	**0.0610**	**0.5274**	**28.2976**	**2,571.0306**	**2,599.3282**	**1.3104**	**0.0261**	**2,634.9332**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	4.24	12.34	10.73	19.05	17.50	62.64	20.90	17.50	63.64	28.07	52.69	13.14	13.92	48.27	1.58	14.48

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2016	1/28/2016	5	20	
2	Grading	Grading	1/29/2016	2/5/2016	5	6	
3	Building Construction	Building Construction	2/6/2016	12/23/2016	5	230	
4	Architectural Coating	Architectural Coating	12/24/2016	1/6/2017	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.07

Acres of Paving: 0

Residential Indoor: 733,971; Residential Outdoor: 244,657; Non-Residential Indoor: 248,700; Non-Residential Outdoor: 82,900 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	273.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	306.00	62.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	61.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0295	0.0000	0.0295	4.4700e-003	0.0000	4.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
Total	**0.0291**	**0.2826**	**0.2150**	**2.4000e-004**	**0.0295**	**0.0175**	**0.0470**	**4.4700e-003**	**0.0163**	**0.0208**	**0.0000**	**22.5629**	**22.5629**	**5.7000e-003**	**0.0000**	**22.6827**

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2300e-003	0.0409	0.0353	1.0000e-004	2.3000e-003	5.3000e-004	2.8300e-003	6.3000e-004	4.9000e-004	1.1200e-003	0.0000	9.3642	9.3642	7.0000e-005	0.0000	9.3656
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	7.1000e-004	6.9200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0702	1.0702	6.0000e-005	0.0000	1.0714
Total	**3.7200e-003**	**0.0416**	**0.0422**	**1.1000e-004**	**3.4800e-003**	**5.4000e-004**	**4.0200e-003**	**9.4000e-004**	**5.0000e-004**	**1.4400e-003**	**0.0000**	**10.4343**	**10.4343**	**1.3000e-004**	**0.0000**	**10.4370**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0133	0.0000	0.0133	2.0100e-003	0.0000	2.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8400e-003	0.0123	0.1484	2.4000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
Total	**2.8400e-003**	**0.0123**	**0.1484**	**2.4000e-004**	**0.0133**	**3.8000e-004**	**0.0137**	**2.0100e-003**	**3.8000e-004**	**2.3900e-003**	**0.0000**	**22.5628**	**22.5628**	**5.7000e-003**	**0.0000**	**22.6826**

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2300e-003	0.0409	0.0353	1.0000e-004	2.1400e-003	5.3000e-004	2.6800e-003	5.9000e-004	4.9000e-004	1.0800e-003	0.0000	9.3642	9.3642	7.0000e-005	0.0000	9.3656
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	7.1000e-004	6.9200e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0702	1.0702	6.0000e-005	0.0000	1.0714
Total	**3.7200e-003**	**0.0416**	**0.0422**	**1.1000e-004**	**3.2300e-003**	**5.4000e-004**	**3.7800e-003**	**8.8000e-004**	**5.0000e-004**	**1.3800e-003**	**0.0000**	**10.4343**	**10.4343**	**1.3000e-004**	**0.0000**	**10.4370**

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8222	5.8222	1.7600e-003	0.0000	5.8590
Total	**8.5600e-003**	**0.0898**	**0.0589**	**6.0000e-005**	**0.0192**	**5.0000e-003**	**0.0242**	**0.0101**	**4.6000e-003**	**0.0147**	**0.0000**	**5.8222**	**5.8222**	**1.7600e-003**	**0.0000**	**5.8590**

3.3 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	1.6000e-004	1.6000e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2470	0.2470	1.0000e-005	0.0000	0.2472
Total	**1.1000e-004**	**1.6000e-004**	**1.6000e-003**	**0.0000**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2470**	**0.2470**	**1.0000e-005**	**0.0000**	**0.2472**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.6200e-003	0.0000	8.6200e-003	4.5200e-003	0.0000	4.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-004	3.2500e-003	0.0381	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.8221	5.8221	1.7600e-003	0.0000	5.8590
Total	**7.5000e-004**	**3.2500e-003**	**0.0381**	**6.0000e-005**	**8.6200e-003**	**1.0000e-004**	**8.7200e-003**	**4.5200e-003**	**1.0000e-004**	**4.6200e-003**	**0.0000**	**5.8221**	**5.8221**	**1.7600e-003**	**0.0000**	**5.8590**

3.3 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	1.6000e-004	1.6000e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2470	0.2470	1.0000e-005	0.0000	0.2472
Total	**1.1000e-004**	**1.6000e-004**	**1.6000e-003**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2470**	**0.2470**	**1.0000e-005**	**0.0000**	**0.2472**

3.4 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4253	2.8327	1.9224	2.8600e-003		0.1870	0.1870		0.1790	0.1790	0.0000	245.3987	245.3987	0.0565	0.0000	246.5861
Total	**0.4253**	**2.8327**	**1.9224**	**2.8600e-003**		**0.1870**	**0.1870**		**0.1790**	**0.1790**	**0.0000**	**245.3987**	**245.3987**	**0.0565**	**0.0000**	**246.5861**

3.4 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0908	0.7146	1.0547	1.7000e-003	0.0459	0.0107	0.0566	0.0132	9.8000e-003	0.0230	0.0000	154.1928	154.1928	1.2400e-003	0.0000	154.2188
Worker	0.1334	0.1934	1.8731	3.8000e-003	0.3192	2.6700e-003	0.3219	0.0849	2.4500e-003	0.0874	0.0000	289.6815	289.6815	0.0160	0.0000	290.0166
Total	**0.2242**	**0.9080**	**2.9278**	**5.5000e-003**	**0.3651**	**0.0133**	**0.3784**	**0.0981**	**0.0123**	**0.1103**	**0.0000**	**443.8743**	**443.8743**	**0.0172**	**0.0000**	**444.2354**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0377	0.4443	1.7111	2.8600e-003		4.0200e-003	4.0200e-003		4.0200e-003	4.0200e-003	0.0000	245.3984	245.3984	0.0565	0.0000	246.5858
Total	**0.0377**	**0.4443**	**1.7111**	**2.8600e-003**		**4.0200e-003**	**4.0200e-003**		**4.0200e-003**	**4.0200e-003**	**0.0000**	**245.3984**	**245.3984**	**0.0565**	**0.0000**	**246.5858**

3.4 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0908	0.7146	1.0547	1.7000e-003	0.0429	0.0107	0.0536	0.0124	9.8000e-003	0.0222	0.0000	154.1928	154.1928	1.2400e-003	0.0000	154.2188
Worker	0.1334	0.1934	1.8731	3.8000e-003	0.2944	2.6700e-003	0.2971	0.0788	2.4500e-003	0.0813	0.0000	289.6815	289.6815	0.0160	0.0000	290.0166
Total	**0.2242**	**0.9080**	**2.9278**	**5.5000e-003**	**0.3373**	**0.0133**	**0.3506**	**0.0913**	**0.0123**	**0.1035**	**0.0000**	**443.8743**	**443.8743**	**0.0172**	**0.0000**	**444.2354**

3.5 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	5.9300e-003	4.7100e-003	1.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	0.6383	0.6383	8.0000e-005	0.0000	0.6399
Total	**2.2783**	**5.9300e-003**	**4.7100e-003**	**1.0000e-005**		**4.9000e-004**	**4.9000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.6383**	**0.6383**	**8.0000e-005**	**0.0000**	**0.6399**

3.5 Architectural Coating - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	8.4000e-004	8.1200e-003	2.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2554	1.2554	7.0000e-005	0.0000	1.2568
Total	**5.8000e-004**	**8.4000e-004**	**8.1200e-003**	**2.0000e-005**	**1.3800e-003**	**1.0000e-005**	**1.3900e-003**	**3.7000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.2554**	**1.2554**	**7.0000e-005**	**0.0000**	**1.2568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-005	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	8.0000e-005	0.0000	0.6399
Total	**2.2774**	**3.2000e-004**	**4.5800e-003**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.6383**	**0.6383**	**8.0000e-005**	**0.0000**	**0.6399**

3.5 Architectural Coating - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	8.4000e-004	8.1200e-003	2.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2554	1.2554	7.0000e-005	0.0000	1.2568
Total	**5.8000e-004**	**8.4000e-004**	**8.1200e-003**	**2.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.2554**	**1.2554**	**7.0000e-005**	**0.0000**	**1.2568**

3.5 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-004	5.4600e-003	4.6700e-003	1.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	0.6383	0.6383	7.0000e-005	0.0000	0.6397
Total	**2.2782**	**5.4600e-003**	**4.6700e-003**	**1.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.3000e-004**	**4.3000e-004**	**0.0000**	**0.6383**	**0.6383**	**7.0000e-005**	**0.0000**	**0.6397**

3.5 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	7.5000e-004	7.2200e-003	2.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2076	1.2076	6.0000e-005	0.0000	1.2089
Total	**5.1000e-004**	**7.5000e-004**	**7.2200e-003**	**2.0000e-005**	**1.3800e-003**	**1.0000e-005**	**1.3900e-003**	**3.7000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.2076**	**1.2076**	**6.0000e-005**	**0.0000**	**1.2089**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2773					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-005	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	7.0000e-005	0.0000	0.6397
Total	**2.2774**	**3.2000e-004**	**4.5800e-003**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.6383**	**0.6383**	**7.0000e-005**	**0.0000**	**0.6397**

3.5 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	7.5000e-004	7.2200e-003	2.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.2076	1.2076	6.0000e-005	0.0000	1.2089
Total	**5.1000e-004**	**7.5000e-004**	**7.2200e-003**	**2.0000e-005**	**1.2800e-003**	**1.0000e-005**	**1.2900e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**1.2076**	**1.2076**	**6.0000e-005**	**0.0000**	**1.2089**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9313	3.1128	15.6174	0.0259	1.7377	0.0384	1.7761	0.4663	0.0353	0.5017	0.0000	1,927.9712	1,927.9712	0.0831	0.0000	1,929.7169
Unmitigated	1.9991	3.5674	17.1445	0.0309	2.1063	0.0452	2.1515	0.5653	0.0416	0.6069	0.0000	2,308.1801	2,308.1801	0.0968	0.0000	2,310.2135

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,323.30	2,362.80	2003.10	3,502,391	2,889,507
Convenience Market (24 Hour)	2,184.45	2,554.78	2245.01	1,710,506	1,411,184
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	129.15	27.80	11.50	233,865	192,941
Health Club	135.01	85.57	109.59	214,780	177,195
Total	3,771.91	5,030.94	4,369.20	5,661,542	4,670,828

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.546229	0.063048	0.174586	0.122573	0.033968	0.004845	0.015596	0.024745	0.002089	0.003270	0.006707	0.000678	0.001667

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	414.3342	414.3342	0.0187	3.8800e-003	415.9293
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	414.3342	414.3342	0.0187	3.8800e-003	415.9293
NaturalGas Mitigated	0.0177	0.1522	0.0720	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.0014	175.0014	3.3500e-003	3.2100e-003	176.0664
NaturalGas Unmitigated	0.0177	0.1522	0.0720	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.0014	175.0014	3.3500e-003	3.2100e-003	176.0664

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market (24 Hour)	14217.6	8.0000e-005	7.0000e-004	5.9000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7587	0.7587	1.0000e-005	1.0000e-005	0.7633
General Office Building	238083	1.2800e-003	0.0117	9.8000e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	12.7050	12.7050	2.4000e-004	2.3000e-004	12.7823
Health Club	105391	5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6241	5.6241	1.1000e-004	1.0000e-004	5.6583
Apartments Mid Rise	2.92171e+006	0.0158	0.1346	0.0573	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	155.9136	155.9136	2.9900e-003	2.8600e-003	156.8625
Total		**0.0177**	**0.1522**	**0.0720**	**9.6000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**	**0.0000**	**175.0014**	**175.0014**	**3.3500e-003**	**3.2000e-003**	**176.0664**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market (24 Hour)	14217.6	8.0000e-005	7.0000e-004	5.9000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7587	0.7587	1.0000e-005	1.0000e-005	0.7633
General Office Building	238083	1.2800e-003	0.0117	9.8000e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	12.7050	12.7050	2.4000e-004	2.3000e-004	12.7823
Health Club	105391	5.7000e-004	5.1700e-003	4.3400e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6241	5.6241	1.1000e-004	1.0000e-004	5.6583
Apartments Mid Rise	2.92171e+006	0.0158	0.1346	0.0573	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	155.9136	155.9136	2.9900e-003	2.8600e-003	156.8625
Total		**0.0177**	**0.1522**	**0.0720**	**9.6000e-004**		**0.0122**	**0.0122**		**0.0122**	**0.0122**	**0.0000**	**175.0014**	**175.0014**	**3.3500e-003**	**3.2000e-003**	**176.0664**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.19307e+006	347.0764	0.0157	3.2500e-003	348.4126
Convenience Market (24 Hour)	34388.8	10.0041	4.5000e-004	9.0000e-005	10.0426
General Office Building	162868	47.3802	2.1400e-003	4.4000e-004	47.5625
Health Club	33940.1	9.8736	4.5000e-004	9.0000e-005	9.9116
Total		**414.3342**	**0.0187**	**3.8700e-003**	**415.9293**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.19307e+006	347.0764	0.0157	3.2500e-003	348.4126
Convenience Market (24 Hour)	34388.8	10.0041	4.5000e-004	9.0000e-005	10.0426
General Office Building	162868	47.3802	2.1400e-003	4.4000e-004	47.5625
Health Club	33940.1	9.8736	4.5000e-004	9.0000e-005	9.9116
Total		**414.3342**	**0.0187**	**3.8700e-003**	**415.9293**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.5948	0.0287	2.4692	1.3000e-004		0.0135	0.0135		0.0135	0.0135	0.0000	4.0055	4.0055	3.9700e-003	0.0000	4.0889
Unmitigated	2.7282	0.0377	3.1251	1.3900e-003		0.1140	0.1140		0.1140	0.1140	11.7297	12.7312	24.4609	0.0436	4.5000e-004	25.5159

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3011					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2878	9.0800e-003	0.6559	1.2600e-003		0.1006	0.1006		0.1006	0.1006	11.7297	8.7257	20.4554	0.0396	4.5000e-004	21.4269
Landscaping	0.0762	0.0287	2.4692	1.3000e-004		0.0135	0.0135		0.0135	0.0135	0.0000	4.0055	4.0055	3.9700e-003	0.0000	4.0889
Total	**2.7282**	**0.0377**	**3.1251**	**1.3900e-003**		**0.1140**	**0.1140**		**0.1140**	**0.1140**	**11.7297**	**12.7312**	**24.4609**	**0.0436**	**4.5000e-004**	**25.5159**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4555					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0631					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0762	0.0287	2.4692	1.3000e-004		0.0135	0.0135		0.0135	0.0135	0.0000	4.0055	4.0055	3.9700e-003	0.0000	4.0889
Total	**2.5948**	**0.0287**	**2.4692**	**1.3000e-004**		**0.0135**	**0.0135**		**0.0135**	**0.0135**	**0.0000**	**4.0055**	**4.0055**	**3.9700e-003**	**0.0000**	**4.0889**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	58.2263	0.0317	0.0190	64.7819
Unmitigated	58.2263	0.0315	0.0190	64.7684

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.5008 / 13.5549	52.1010	0.0282	0.0170	57.9503
Convenience Market (24 Hour)	0.219255 / 0.134382	0.5274	2.9000e-004	1.7000e-004	0.5870
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.08482 / 1.27779	5.0147	2.7300e-003	1.6400e-003	5.5818
Health Club	0.242487 / 0.148621	0.5833	3.2000e-004	1.9000e-004	0.6492
Total		**58.2263**	**0.0315**	**0.0190**	**64.7684**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.5008 / 13.5549	52.1010	0.0283	0.0170	57.9625
Convenience Market (24 Hour)	0.219255 / 0.134382	0.5274	2.9000e-004	1.7000e-004	0.5871
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	2.08482 / 1.27779	5.0147	2.7500e-003	1.6500e-003	5.5829
Health Club	0.242487 / 0.148621	0.5833	3.2000e-004	1.9000e-004	0.6494
Total		**58.2263**	**0.0317**	**0.0190**	**64.7819**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.7896	1.1695	0.0000	44.3497
Unmitigated	39.5792	2.3391	0.0000	88.6995

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	151.8	30.8140	1.8211	0.0000	69.0562
Convenience Market (24 Hour)	8.9	1.8066	0.1068	0.0000	4.0488
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.91	2.2146	0.1309	0.0000	4.9631
Health Club	23.37	4.7439	0.2804	0.0000	10.6314
Total		**39.5792**	**2.3391**	**0.0000**	**88.6995**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	75.9	15.4070	0.9105	0.0000	34.5281
Convenience Market (24 Hour)	4.45	0.9033	0.0534	0.0000	2.0244
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.455	1.1073	0.0654	0.0000	2.4816
Health Club	11.685	2.3720	0.1402	0.0000	5.3157
Total		**19.7896**	**1.1695**	**0.0000**	**44.3498**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Summary of AERSCREEN and Health Risk Assessment parameters for Construction DPM and $PM_{2.5}$ Emissions
Jack London Square 4th & Madison

Construction Duration	Quantity	Notes
Total Constrution Work Days	266	CalEEMod
Total Hauling Work Days	20	CalEEMod
Work Hours/Day	8	CalEEMod

AERSCREEN Parameters	Units	Value	Notes
On-Site DPM Emissions	tons	0.0047	CalEEMod exhaust PM_{10}
On-Site $PM_{2.5}$ Emissions	tons	0.0047	CalEEMod exhaust $PM_{2.5}$
Release Height of Area Sources	meters	5	SCAQMD, 2008 (revised)
Block A DPM Emissions	tons	0.0031	Assume 2/3 of total emissions (based on area)
Block A $PM_{2.5}$ Emissions	tons	0.0031	Assume 2/3 of total emissions (based on area)
Block A DPM Emission Rate	gram/second	0.000368	Converted PM_{10} emissions
Block A $PM_{2.5}$ Emission Rate	gram/second	0.000368	Converted exhaust $PM_{2.5}$
Block A Max horizontal dimension	meters	100	Project site dimension
Block A Min horizontal dimension	meters	70	Project site dimension
Block B DPM Emissions	tons	0.0016	Assume 1/3 of total emissions (based on area)
Block B $PM_{2.5}$ Emissions	tons	0.0016	Assume 1/3 of total emissions (based on area)
Block B DPM Emission Rate	gram/second	0.000184	Converted PM_{10} emissions
Block B $PM_{2.5}$ Emission Rate	gram/second	0.000184	Converted exhaust $PM_{2.5}$
Block B Max horizontal dimension	meters	50	Project site dimension
Block B Min horizontal dimension	meters	70	Project site dimension
Haul Road DPM Emissions	tons	0.00053	CalEEMod exhaust PM10
Haul Road PM2.5 Emissions	tons	0.00053	CalEEMod exhaust PM2.5
Haul Road DPM Emission Rate	gram/second	0.00083	Converted PM_{10} emissions
Haul Road PM2.5 Emission Rate	gram/second	0.00083	Converted exhaust $PM_{2.5}$
Haul Road Max horizontal dimension	meters	18.19	5th Street frontage road to I-880
Haul Road Min horizontal dimension	meters	537.7	5th Street frontage road to I-880

Emissions Sources	Pollutant	Max Annual Average Concentration	Notes
On-Site Construction and Off-haul	DPM ($\mu g/m^{3)}$	0.79	One-hour maximum concentratation
	$PM_{2.5}$ ($\mu g/m^{3)}$	0.79	One-hour maximum concentratation
On-Site Construction and Off-haul	DPM ($\mu g/m^{3)}$	0.079	Annual average concentration
	$PM_{2.5}$ ($\mu g/m^{3)}$	0.079	Annual average concentration

Health Risk Assessment Parameters	Units	Values for a child <2	Source
Annual Exposure Duration (ED)	days/365 days	0.73	Total work days
Daily Exposure Time (ET)	hour/24 hours	0.33	8-hour workday
Exposure Frequency (EF)	days/year	350	OEHHA, 2015
Daily Breathing Rate (DBR)	L/kg-day	658	OEHHA, 2015
Averaging Time (AT)	days	25,550	70 years for residents (OEHHA, 2015)
Age Sensitivity Factor (ASF)	unitless	10	OEHHA, 2015
DPM Cancer Potency Factor (CPF)	$(mg/kg/day)^{-1}$	1.1	OEHHA, 2015
DPM Chronic REL	$\mu g/m^3$	5	OEHHA, 2015
Conversion Factor (CF)	m^3/L	0.000001	OEHHA, 2015

Emissions Source	Health Risk Assessment Target Receptor	Pollutant	Excess Cancer Risk per Million	Chronic Hazard Index
Construction	Child under the age of 2	DPM	1.9	0.16

ONSITE Construction ONLY - Tier 4 Equipment

Pollutant	Exhaust PM_{10}	Exhaust $PM_{2.5}$
Units	Ton/yr	Ton/yr
Demo	0.00038	0.00038
Grading	0.00010	0.00010
Building	0.0040	0.0040
Paving	0.00014	0.00014
Arch (2016)	0.000010	0.000010
Arch (2017)	0.000010	0.000010
Total Emissions	**0.0047**	**0.0047**

Notes:
Construction durations based on CalEEMod results.
DPM = diesel particulate matter
$PM_{2.5}$ = particulate matter with aerodynamic resistance diameters equal to or less than 10 microns
REL = reference exposure level
$\mu g/m^3$ = micrograms per cubic meter
L/kg-day = liters per kilogram-day
m^3/L = cubic meters per liter
$(mg/kg/day)^{-1}$ = 1/milligrams per kilograms per day

South Coast Air Quality Management District (SQAMD), 2008 (revised)*Final Localized Significance Threshold Methodology*. July.
Office of Environmental Health Hazard Assessment (OEHHA), 2015*Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. February.

```
**
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**
** ISCST3 Input Produced by:
** AERMOD View Ver. 8.8.9
** Lakes Environmental Software Inc.
** Date: 3/27/2015
** File: C:\Lakes\AERMOD View\CostPlus\JackLondonSquare_CostPlus
\JackLondonSquare_CostPlus.INP
**
**************************************
**
**
**************************************
** ISCST3 Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\CostPlus
\JackLondonSquare_CostPlus\JackLondonSq
   MODELOPT DFAULT CONC  URBAN
   AVERTIME 1
   POLLUTID PM_10
   TERRHGTS FLAT
   FLAGPOLE 1.50
   RUNORNOT RUN
CO FINISHED
**
**************************************
** ISCST3 Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION BLOCKA       AREA       564319.800  4183336.910
** DESCRSRC BLOCK A
   LOCATION BLOCKB       AREA       564328.970  4183238.850
** DESCRSRC BLOCK B
**
------------------------------------------------------------------
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN1
** DESCRSRC Demolition Haul
** PREFIX
** Length of Side = 18.19
** Ratio = 10
** Vertical Dimension = 2.17
** Emission Rate = 8.4845E-08
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** 564450.225, 4183366.291, 0.00, 0.00
** 564447.050, 4183359.332, 0.00, 0.00
** 564556.165, 4183305.357, 0.00, 0.00
** 564680.613, 4183239.391, 0.00, 0.00
** 564680.620, 4183248.051, 0.00, 0.00
** 564561.707, 4183311.612, 0.00, 0.00
** 564450.355, 4183366.196, 0.00, 0.00
**
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   LOCATION A0000001     AREA     564441.950 4183370.067
   LOCATION A0000002     AREA     564443.017 4183351.179
   LOCATION A0000003     AREA     564551.905 4183297.320
   LOCATION A0000004     AREA     564689.709 4183239.384
   LOCATION A0000005     AREA     564684.908 4183256.073
   LOCATION A0000006     AREA     564565.710 4183319.779
** End of LINE AREA Source ID = ARLN1
** Source Parameters **
   SRCPARAM BLOCKA       5.2571E-08     5.000   100.000    70.000
25.800
   SRCPARAM BLOCKB       5.2571E-08     5.000    50.000    70.000
25.800
** LINE AREA Source ID = ARLN1
   SRCPARAM A0000001     8.4845E-08     0.000     7.649    18.192
114.527     2.169
   SRCPARAM A0000002     8.4845E-08     0.000   121.735    18.192
26.320     2.169
   SRCPARAM A0000003     8.4845E-08     0.000   140.851    18.192
27.926     2.169
   SRCPARAM A0000004     8.4845E-08     0.000     8.660    18.192
-89.954     2.169
   SRCPARAM A0000005     8.4845E-08     0.000   134.835    18.192
-151.875     2.169
   SRCPARAM A0000006     8.4845E-08     0.000   124.010    18.192
-153.886     2.169
**
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   SRCGROUP ALL
SO FINISHED
**
**************************************
** ISCST3 Receptor Pathway
**************************************
**
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RE STARTING
** DESCRREC "" ""
   DISCCART    564355.56   4183055.66    1.50
   DISCCART    564380.56   4183055.66    1.50
   DISCCART    564405.56   4183055.66    1.50
```

DISCCART	564330.56	4183080.66	1.50
DISCCART	564355.56	4183080.66	1.50
DISCCART	564380.56	4183080.66	1.50
DISCCART	564405.56	4183080.66	1.50
DISCCART	564580.56	4183080.66	1.50
DISCCART	564605.99	4183070.87	1.50
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DISCCART	564381.33	4183101.56	1.50
DISCCART	564305.56	4183155.66	1.50
DISCCART	564330.56	4183155.66	1.50
DISCCART	564255.56	4183180.66	1.50
DISCCART	564280.56	4183180.66	1.50
DISCCART	564305.56	4183180.66	1.50
DISCCART	564330.56	4183180.66	1.50
DISCCART	564355.56	4183180.66	1.50
DISCCART	564457.09	4183184.23	1.50
DISCCART	564477.11	4183184.80	1.50
DISCCART	564205.56	4183205.66	1.50
DISCCART	564230.56	4183205.66	1.50
DISCCART	564255.56	4183205.66	1.50
DISCCART	564280.56	4183205.66	1.50
DISCCART	564305.56	4183205.66	1.50
DISCCART	564330.56	4183205.66	1.50
DISCCART	564355.56	4183205.66	1.50
DISCCART	564405.56	4183205.66	1.50
DISCCART	564430.56	4183205.66	1.50
DISCCART	564455.56	4183205.66	1.50
DISCCART	564480.56	4183205.66	1.50
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DISCCART	564480.08	4183462.02	18.00
DISCCART	564535.48	4183432.25	18.00
DISCCART	564560.48	4183432.25	18.00
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DISCCART	564610.48	4183457.25	1.50
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DISCCART	564585.48	4183432.25	12.00
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DISCCART	564665.92	4183436.35	18.00

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DISCCART	564315.44	4183585.21	12.00

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DISCCART	564126.39	4183107.81	1.50
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DISCCART	564150.62	4183061.91	6.00
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DISCCART	564126.39	4183107.81	6.00
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DISCCART	564126.39	4183107.81	12.00
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DISCCART	564125.62	4183061.91	18.00
DISCCART	564150.62	4183061.91	18.00
DISCCART	564075.62	4183086.91	18.00
DISCCART	564100.62	4183086.91	18.00
DISCCART	564125.62	4183086.91	18.00
DISCCART	564150.62	4183086.91	18.00
DISCCART	564100.62	4183111.91	18.00
DISCCART	564126.39	4183107.81	18.00
DISCCART	564075.62	4183086.91	1.50
DISCCART	564100.62	4183086.91	1.50
DISCCART	564125.62	4183086.91	1.50
DISCCART	564150.62	4183086.91	1.50
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DISCCART	564189.29	4183069.60	1.50
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DISCCART	564239.29	4183019.60	6.00
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DISCCART	564215.06	4183065.50	6.00
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DISCCART	564189.29	4183019.60	12.00
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   DISCCART    564164.29   4183044.60   12.00
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   DISCCART    564214.29   4183044.60   12.00
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   DISCCART    564214.29   4183044.60   18.00
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   DISCCART    564117.50   4183018.88    6.00
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   DISCCART    564092.50   4183043.88    6.00
   DISCCART    564118.27   4183039.78    6.00
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   DISCCART    564092.50   4183018.88   12.00
   DISCCART    564117.50   4183018.88   12.00
   DISCCART    564142.50   4183018.88   12.00
   DISCCART    564092.50   4183043.88   12.00
   DISCCART    564118.27   4183039.78   12.00
   DISCCART    564067.50   4183018.88   18.00
   DISCCART    564092.50   4183018.88   18.00
   DISCCART    564117.50   4183018.88   18.00
   DISCCART    564142.50   4183018.88   18.00
   DISCCART    564092.50   4183043.88   18.00
   DISCCART    564118.27   4183039.78   18.00
   DISCCART    564067.50   4183018.88    1.50
   DISCCART    564092.50   4183018.88    1.50
   DISCCART    564117.50   4183018.88    1.50
   DISCCART    564142.50   4183018.88    1.50
** Discrete Cartesian Plant Boundary - Primary Receptors
** Plant Boundary Name PLBN1
** DESCRREC "FENCEPRI" "Cartesian plant boundary Primary
Receptors"
   DISCCART    564326.35   4183232.66  100.00
   DISCCART    564363.36   4183310.38  100.00
   DISCCART    564315.34   4183332.82  100.00
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   DISCCART    564350.90   4183407.47  100.00
   DISCCART    564447.81   4183358.72  100.00
   DISCCART    564375.93   4183209.29  100.00
RE FINISHED
**
****************************************
** ISCST3 Meteorology Pathway
****************************************
**
**
ME STARTING
   INPUTFIL METDAT~1\300MMI~1\OST003RA.ASC
   ANEMHGHT 10 METERS
   SURFDATA 1804 2000
   UAIRDATA 1804 2000
ME FINISHED
**
****************************************
** ISCST3 Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST JACKLO~1.IS\01H1GALL.PLT 31
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

```
 *** ISCST3 - VERSION 02035 ***    *** C:\Lakes\AERMOD View
\CostPlus\JackLondonSquare_CostPlus\JackLondonSq ***
03/27/15
                                   ***
***        07:14:59
**MODELOPTs:
PAGE   1
CONC                    URBAN FLAT  FLGPOL DFAULT

                                             ***     MODEL SETUP
OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion
Calculations

**Model Uses URBAN Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for URBAN/Non-SO2

**Model Assumes Receptors on FLAT Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates  1 Short Term Average(s) of:   1-HR

**This Run Includes:     8 Source(s);      1 Source Group(s); and
782 Receptor(s)

**The Model Assumes A Pollutant Type of:  PM_10

**Model Set To Continue RUNning After the Setup Testing.
```

```
**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by
Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c
for Calm Hours
                                                                m
for Missing Hours
                                                                b
for Both Calm and Missing Hours

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =
0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.2 MB of RAM.

**Input Runstream File:          JackLondonSquare_CostPlus.INP
**Output Print File:             JackLondonSquare_CostPlus.OUT
```

**MODELOPTs:

CONC URBAN FLAT FLGPOL DFAULT

*** AREA SOURCE DATA ***

RELEASE	X-DIM	Y-DIM	ORIENT.	INIT.	EMISSION RATE
SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. HEIGHT (METERS)
	OF AREA (METERS)	OF AREA (METERS)	OF AREA (DEG.)	SZ (METERS)	SCALAR VARY BY
BLOCKA	0	0.52571E-07	564319.8	4183337.0	0.0
5.00	100.00	70.00	25.80	0.00	
BLOCKB	0	0.52571E-07	564329.0	4183238.8	0.0
5.00	50.00	70.00	25.80	0.00	
A0000001	0	0.84845E-07	564441.9	4183370.0	0.0
0.00	7.65	18.19	114.53	2.17	
A0000002	0	0.84845E-07	564443.0	4183351.3	0.0
0.00	121.74	18.19	26.32	2.17	
A0000003	0	0.84845E-07	564551.9	4183297.2	0.0
0.00	140.85	18.19	27.93	2.17	
A0000004	0	0.84845E-07	564689.7	4183239.5	0.0
0.00	8.66	18.19	-89.95	2.17	
A0000005	0	0.84845E-07	564684.9	4183256.0	0.0
0.00	134.84	18.19	-151.88	2.17	
A0000006	0	0.84845E-07	564565.7	4183319.8	0.0
0.00	124.01	18.19	-153.89	2.17	

```
 *** ISCST3 - VERSION 02035 ***    *** C:\Lakes\AERMOD View
\CostPlus\JackLondonSquare_CostPlus\JackLondonSq ***
03/27/15
                                   ***
***        07:14:59
**MODELOPTs:
PAGE   3
CONC                    URBAN FLAT  FLGPOL DFAULT



                                            *** SOURCE IDs DEFINING
SOURCE GROUPS ***

GROUP ID                                                    SOURCE
IDs


 ALL        BLOCKA  , BLOCKB  , A0000001, A0000002, A0000003,
A0000004, A0000005, A0000006,
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564355.6, 4183055.8, 0.0, 1.5); (564380.6, 4183055.8, 0.0, 1.5);

(564405.6, 4183055.8, 0.0, 1.5); (564330.6, 4183080.8, 0.0, 1.5);
(564355.6, 4183080.8, 0.0, 1.5); (564380.6, 4183080.8, 0.0, 1.5);
(564405.6, 4183080.8, 0.0, 1.5); (564580.6, 4183080.8, 0.0, 1.5);
(564606.0, 4183070.8, 0.0, 1.5); (564355.6, 4183105.8, 0.0, 1.5);
(564381.3, 4183101.5, 0.0, 1.5); (564305.6, 4183155.8, 0.0, 1.5);
(564330.6, 4183155.8, 0.0, 1.5); (564255.6, 4183180.8, 0.0, 1.5);
(564280.6, 4183180.8, 0.0, 1.5); (564305.6, 4183180.8, 0.0, 1.5);
(564330.6, 4183180.8, 0.0, 1.5); (564355.6, 4183180.8, 0.0, 1.5);
(564457.1, 4183184.2, 0.0, 1.5); (564477.1, 4183184.8, 0.0, 1.5);
(564205.6, 4183205.8, 0.0, 1.5); (564230.6, 4183205.8, 0.0, 1.5);
(564255.6, 4183205.8, 0.0, 1.5); (564280.6, 4183205.8, 0.0, 1.5);
(564305.6, 4183205.8, 0.0, 1.5); (564330.6, 4183205.8, 0.0, 1.5);
(564355.6, 4183205.8, 0.0, 1.5); (564405.6, 4183205.8, 0.0, 1.5);
(564430.6, 4183205.8, 0.0, 1.5); (564455.6, 4183205.8, 0.0, 1.5);
(564480.6, 4183205.8, 0.0, 1.5); (564155.6, 4183230.8, 0.0, 1.5);
(564180.6, 4183230.8, 0.0, 1.5); (564205.6, 4183230.8, 0.0, 1.5);

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    ( 564230.6, 4183230.8,       0.0,       1.5);          (
564280.6, 4183230.8,       0.0,       1.5);
    ( 564305.6, 4183230.8,       0.0,       1.5);          (
564330.6, 4183220.0,       0.0,       1.5);
    ( 564405.6, 4183230.8,       0.0,       1.5);          (
564430.6, 4183230.8,       0.0,       1.5);
    ( 564455.6, 4183230.8,       0.0,       1.5);          (
564480.6, 4183230.8,       0.0,       1.5);
    ( 564105.6, 4183255.8,       0.0,       1.5);          (
564130.6, 4183255.8,       0.0,       1.5);
    ( 564155.6, 4183255.8,       0.0,       1.5);          (
564180.6, 4183255.8,       0.0,       1.5);
    ( 564205.6, 4183255.8,       0.0,       1.5);          (
564230.6, 4183255.8,       0.0,       1.5);
    ( 564255.6, 4183255.8,       0.0,       1.5);          (
564305.6, 4183255.8,       0.0,       1.5);
    ( 564330.6, 4183255.8,       0.0,       1.5);          (
564418.7, 4183257.8,       0.0,       1.5);
    ( 564449.9, 4183248.0,       0.0,       1.5);          (
564055.6, 4183280.8,       0.0,       1.5);
    ( 564080.6, 4183280.8,       0.0,       1.5);          (
564105.6, 4183280.8,       0.0,       1.5);
    ( 564130.6, 4183280.8,       0.0,       1.5);          (
564155.6, 4183280.8,       0.0,       1.5);
    ( 564180.6, 4183280.8,       0.0,       1.5);          (
564205.6, 4183280.8,       0.0,       1.5);
    ( 564230.6, 4183280.8,       0.0,       1.5);          (
564255.6, 4183280.8,       0.0,       1.5);
    ( 564305.6, 4183280.8,       0.0,       1.5);          (
564330.6, 4183280.8,       0.0,       1.5);
    ( 564055.6, 4183305.8,       0.0,       1.5);          (
564080.6, 4183305.8,       0.0,       1.5);
    ( 564105.6, 4183305.8,       0.0,       1.5);          (
564130.6, 4183305.8,       0.0,       1.5);
    ( 564155.6, 4183305.8,       0.0,       1.5);          (
564180.6, 4183305.8,       0.0,       1.5);
    ( 564205.6, 4183305.8,       0.0,       1.5);          (
564230.6, 4183305.8,       0.0,       1.5);
    ( 564255.6, 4183305.8,       0.0,       1.5);          (
564280.6, 4183305.8,       0.0,       1.5);
    ( 564305.6, 4183305.8,       0.0,       1.5);          (
564330.6, 4183305.8,       0.0,       1.5);
    ( 564350.7, 4183306.3,       0.0,       1.5);          (
564105.6, 4183330.8,       0.0,       1.5);
    ( 564130.6, 4183330.8,       0.0,       1.5);          (
564155.6, 4183330.8,       0.0,       1.5);
    ( 564205.6, 4183330.8,       0.0,       1.5);          (
564230.6, 4183330.8,       0.0,       1.5);
    ( 564255.6, 4183330.8,       0.0,       1.5);          (
564280.6, 4183330.8,       0.0,       1.5);
    ( 564080.6, 4183355.8,       0.0,       1.5);          (
564105.6, 4183355.8,       0.0,       1.5);
```

```
    ( 564130.6, 4183355.8,       0.0,       1.5);          (
564155.6, 4183355.8,       0.0,       1.5);
    ( 564205.6, 4183355.8,       0.0,       1.5);          (
564230.6, 4183355.8,       0.0,       1.5);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564080.6, 4183380.8, 0.0, 1.5); (564105.6, 4183380.8, 0.0, 1.5);
(564130.6, 4183380.8, 0.0, 1.5); (564205.6, 4183380.8, 0.0, 1.5);
(564230.6, 4183380.8, 0.0, 1.5); (564255.6, 4183380.8, 0.0, 1.5);
(564230.6, 4183405.8, 0.0, 1.5); (564255.6, 4183405.8, 0.0, 1.5);
(564280.6, 4183405.8, 0.0, 1.5); (564137.9, 4183424.8, 0.0, 1.5);
(564151.6, 4183418.2, 0.0, 1.5); (564255.6, 4183430.8, 0.0, 1.5);
(564280.6, 4183430.8, 0.0, 1.5); (564655.6, 4183605.8, 0.0, 1.5);
(564355.6, 4183055.8, 0.0, 6.0); (564380.6, 4183055.8, 0.0, 6.0);
(564405.6, 4183055.8, 0.0, 6.0); (564330.6, 4183080.8, 0.0, 6.0);
(564355.6, 4183080.8, 0.0, 6.0); (564380.6, 4183080.8, 0.0, 6.0);
(564405.6, 4183080.8, 0.0, 6.0); (564580.6, 4183080.8, 0.0, 6.0);
(564606.0, 4183070.8, 0.0, 6.0); (564355.6, 4183105.8, 0.0, 6.0);
(564381.3, 4183101.5, 0.0, 6.0); (564305.6, 4183155.8, 0.0, 6.0);
(564330.6, 4183155.8, 0.0, 6.0); (564255.6, 4183180.8, 0.0, 6.0);
(564280.6, 4183180.8, 0.0, 6.0); (564305.6, 4183180.8, 0.0, 6.0);
(564330.6, 4183180.8, 0.0, 6.0); (564355.6, 4183180.8, 0.0, 6.0);
(564457.1, 4183184.2, 0.0, 6.0); (564477.1, 4183184.8, 0.0, 6.0);
(564205.6, 4183205.8, 0.0, 6.0); (

```
564230.6, 4183205.8,       0.0,       6.0);
    ( 564255.6, 4183205.8,       0.0,       6.0);          (
564280.6, 4183205.8,       0.0,       6.0);
    ( 564305.6, 4183205.8,       0.0,       6.0);          (
564330.6, 4183205.8,       0.0,       6.0);
    ( 564355.6, 4183205.8,       0.0,       6.0);          (
564405.6, 4183205.8,       0.0,       6.0);
    ( 564430.6, 4183205.8,       0.0,       6.0);          (
564455.6, 4183205.8,       0.0,       6.0);
    ( 564480.6, 4183205.8,       0.0,       6.0);          (
564155.6, 4183230.8,       0.0,       6.0);
    ( 564180.6, 4183230.8,       0.0,       6.0);          (
564205.6, 4183230.8,       0.0,       6.0);
    ( 564230.6, 4183230.8,       0.0,       6.0);          (
564280.6, 4183230.8,       0.0,       6.0);
    ( 564305.6, 4183230.8,       0.0,       6.0);          (
564330.6, 4183220.0,       0.0,       6.0);
    ( 564405.6, 4183230.8,       0.0,       6.0);          (
564430.6, 4183230.8,       0.0,       6.0);
    ( 564455.6, 4183230.8,       0.0,       6.0);          (
564480.6, 4183230.8,       0.0,       6.0);
    ( 564105.6, 4183255.8,       0.0,       6.0);          (
564130.6, 4183255.8,       0.0,       6.0);
    ( 564155.6, 4183255.8,       0.0,       6.0);          (
564180.6, 4183255.8,       0.0,       6.0);
    ( 564205.6, 4183255.8,       0.0,       6.0);          (
564230.6, 4183255.8,       0.0,       6.0);
    ( 564255.6, 4183255.8,       0.0,       6.0);          (
564305.6, 4183255.8,       0.0,       6.0);
    ( 564330.6, 4183255.8,       0.0,       6.0);          (
564418.7, 4183257.8,       0.0,       6.0);
    ( 564449.9, 4183248.0,       0.0,       6.0);          (
564055.6, 4183280.8,       0.0,       6.0);
    ( 564080.6, 4183280.8,       0.0,       6.0);          (
564105.6, 4183280.8,       0.0,       6.0);
    ( 564130.6, 4183280.8,       0.0,       6.0);          (
564155.6, 4183280.8,       0.0,       6.0);
    ( 564180.6, 4183280.8,       0.0,       6.0);          (
564205.6, 4183280.8,       0.0,       6.0);
    ( 564230.6, 4183280.8,       0.0,       6.0);          (
564255.6, 4183280.8,       0.0,       6.0);
    ( 564305.6, 4183280.8,       0.0,       6.0);          (
564330.6, 4183280.8,       0.0,       6.0);
    ( 564055.6, 4183305.8,       0.0,       6.0);          (
564080.6, 4183305.8,       0.0,       6.0);
    ( 564105.6, 4183305.8,       0.0,       6.0);          (
564130.6, 4183305.8,       0.0,       6.0);
    ( 564155.6, 4183305.8,       0.0,       6.0);          (
564180.6, 4183305.8,       0.0,       6.0);
    ( 564205.6, 4183305.8,       0.0,       6.0);          (
564230.6, 4183305.8,       0.0,       6.0);
    ( 564255.6, 4183305.8,       0.0,       6.0);          (
```

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564280.6, 4183305.8,       0.0,       6.0);
    ( 564305.6, 4183305.8,       0.0,       6.0);          (
564330.6, 4183305.8,       0.0,       6.0);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564350.7, 4183306.3, 0.0, 6.0); (564105.6, 4183330.8, 0.0, 6.0);
(564130.6, 4183330.8, 0.0, 6.0); (564155.6, 4183330.8, 0.0, 6.0);
(564205.6, 4183330.8, 0.0, 6.0); (564230.6, 4183330.8, 0.0, 6.0);
(564255.6, 4183330.8, 0.0, 6.0); (564280.6, 4183330.8, 0.0, 6.0);
(564080.6, 4183355.8, 0.0, 6.0); (564105.6, 4183355.8, 0.0, 6.0);
(564130.6, 4183355.8, 0.0, 6.0); (564155.6, 4183355.8, 0.0, 6.0);
(564205.6, 4183355.8, 0.0, 6.0); (564230.6, 4183355.8, 0.0, 6.0);
(564080.6, 4183380.8, 0.0, 6.0); (564105.6, 4183380.8, 0.0, 6.0);
(564130.6, 4183380.8, 0.0, 6.0); (564205.6, 4183380.8, 0.0, 6.0);
(564230.6, 4183380.8, 0.0, 6.0); (564255.6, 4183380.8, 0.0, 6.0);
(564230.6, 4183405.8, 0.0, 6.0); (564255.6, 4183405.8, 0.0, 6.0);
(564280.6, 4183405.8, 0.0, 6.0); (564137.9, 4183424.8, 0.0, 6.0);
(564151.6, 4183418.2, 0.0, 6.0); (564255.6, 4183430.8, 0.0, 6.0);
(564280.6, 4183430.8, 0.0, 6.0); (564655.6, 4183605.8, 0.0, 6.0);
(564355.6, 4183055.8, 0.0, 12.0); (564380.6, 4183055.8, 0.0, 12.0);
(564405.6, 4183055.8, 0.0, 12.0); (564330.6, 4183080.8, 0.0, 12.0);
(564355.6, 4183080.8, 0.0, 12.0); (564380.6, 4183080.8, 0.0, 12.0);
(564405.6, 4183080.8, 0.0, 12.0); (

```
564580.6, 4183080.8,       0.0,      12.0);
    ( 564606.0, 4183070.8,       0.0,      12.0);          (
564355.6, 4183105.8,       0.0,      12.0);
    ( 564381.3, 4183101.5,       0.0,      12.0);          (
564305.6, 4183155.8,       0.0,      12.0);
    ( 564330.6, 4183155.8,       0.0,      12.0);          (
564255.6, 4183180.8,       0.0,      12.0);
    ( 564280.6, 4183180.8,       0.0,      12.0);          (
564305.6, 4183180.8,       0.0,      12.0);
    ( 564330.6, 4183180.8,       0.0,      12.0);          (
564355.6, 4183180.8,       0.0,      12.0);
    ( 564457.1, 4183184.2,       0.0,      12.0);          (
564477.1, 4183184.8,       0.0,      12.0);
    ( 564205.6, 4183205.8,       0.0,      12.0);          (
564230.6, 4183205.8,       0.0,      12.0);
    ( 564255.6, 4183205.8,       0.0,      12.0);          (
564280.6, 4183205.8,       0.0,      12.0);
    ( 564305.6, 4183205.8,       0.0,      12.0);          (
564330.6, 4183205.8,       0.0,      12.0);
    ( 564355.6, 4183205.8,       0.0,      12.0);          (
564405.6, 4183205.8,       0.0,      12.0);
    ( 564430.6, 4183205.8,       0.0,      12.0);          (
564455.6, 4183205.8,       0.0,      12.0);
    ( 564480.6, 4183205.8,       0.0,      12.0);          (
564155.6, 4183230.8,       0.0,      12.0);
    ( 564180.6, 4183230.8,       0.0,      12.0);          (
564205.6, 4183230.8,       0.0,      12.0);
    ( 564230.6, 4183230.8,       0.0,      12.0);          (
564280.6, 4183230.8,       0.0,      12.0);
    ( 564305.6, 4183230.8,       0.0,      12.0);          (
564330.6, 4183220.0,       0.0,      12.0);
    ( 564405.6, 4183230.8,       0.0,      12.0);          (
564430.6, 4183230.8,       0.0,      12.0);
    ( 564455.6, 4183230.8,       0.0,      12.0);          (
564480.6, 4183230.8,       0.0,      12.0);
    ( 564105.6, 4183255.8,       0.0,      12.0);          (
564130.6, 4183255.8,       0.0,      12.0);
    ( 564155.6, 4183255.8,       0.0,      12.0);          (
564180.6, 4183255.8,       0.0,      12.0);
    ( 564205.6, 4183255.8,       0.0,      12.0);          (
564230.6, 4183255.8,       0.0,      12.0);
    ( 564255.6, 4183255.8,       0.0,      12.0);          (
564305.6, 4183255.8,       0.0,      12.0);
    ( 564330.6, 4183255.8,       0.0,      12.0);          (
564418.7, 4183257.8,       0.0,      12.0);
    ( 564449.9, 4183248.0,       0.0,      12.0);          (
564055.6, 4183280.8,       0.0,      12.0);
    ( 564080.6, 4183280.8,       0.0,      12.0);          (
564105.6, 4183280.8,       0.0,      12.0);
    ( 564130.6, 4183280.8,       0.0,      12.0);          (
564155.6, 4183280.8,       0.0,      12.0);
    ( 564180.6, 4183280.8,       0.0,      12.0);          (
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```
564205.6, 4183280.8,       0.0,      12.0);
    ( 564230.6, 4183280.8,       0.0,      12.0);          (
564255.6, 4183280.8,       0.0,      12.0);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564305.6, 4183280.8, 0.0, 12.0); (564330.6, 4183280.8, 0.0, 12.0);
(564055.6, 4183305.8, 0.0, 12.0); (564080.6, 4183305.8, 0.0, 12.0);
(564105.6, 4183305.8, 0.0, 12.0); (564130.6, 4183305.8, 0.0, 12.0);
(564155.6, 4183305.8, 0.0, 12.0); (564180.6, 4183305.8, 0.0, 12.0);
(564205.6, 4183305.8, 0.0, 12.0); (564230.6, 4183305.8, 0.0, 12.0);
(564255.6, 4183305.8, 0.0, 12.0); (564280.6, 4183305.8, 0.0, 12.0);
(564305.6, 4183305.8, 0.0, 12.0); (564330.6, 4183305.8, 0.0, 12.0);
(564350.7, 4183306.3, 0.0, 12.0); (564105.6, 4183330.8, 0.0, 12.0);
(564130.6, 4183330.8, 0.0, 12.0); (564155.6, 4183330.8, 0.0, 12.0);
(564205.6, 4183330.8, 0.0, 12.0); (564230.6, 4183330.8, 0.0, 12.0);
(564255.6, 4183330.8, 0.0, 12.0); (564280.6, 4183330.8, 0.0, 12.0);
(564080.6, 4183355.8, 0.0, 12.0); (564105.6, 4183355.8, 0.0, 12.0);
(564130.6, 4183355.8, 0.0, 12.0); (564155.6, 4183355.8, 0.0, 12.0);
(564205.6, 4183355.8, 0.0, 12.0); (564230.6, 4183355.8, 0.0, 12.0);
(564080.6, 4183380.8, 0.0, 12.0); (564105.6, 4183380.8, 0.0, 12.0);
(564130.6, 4183380.8, 0.0, 12.0); (564205.6, 4183380.8, 0.0, 12.0);
(564230.6, 4183380.8, 0.0, 12.0); (564255.6, 4183380.8, 0.0, 12.0);
(564230.6, 4183405.8, 0.0, 12.0); (

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564255.6, 4183405.8,       0.0,      12.0);
    ( 564280.6, 4183405.8,       0.0,      12.0);          (
564137.9, 4183424.8,       0.0,      12.0);
    ( 564151.6, 4183418.2,       0.0,      12.0);          (
564255.6, 4183430.8,       0.0,      12.0);
    ( 564280.6, 4183430.8,       0.0,      12.0);          (
564655.6, 4183605.8,       0.0,      12.0);
    ( 564355.6, 4183055.8,       0.0,      18.0);          (
564380.6, 4183055.8,       0.0,      18.0);
    ( 564405.6, 4183055.8,       0.0,      18.0);          (
564330.6, 4183080.8,       0.0,      18.0);
    ( 564355.6, 4183080.8,       0.0,      18.0);          (
564380.6, 4183080.8,       0.0,      18.0);
    ( 564405.6, 4183080.8,       0.0,      18.0);          (
564580.6, 4183080.8,       0.0,      18.0);
    ( 564606.0, 4183070.8,       0.0,      18.0);          (
564355.6, 4183105.8,       0.0,      18.0);
    ( 564381.3, 4183101.5,       0.0,      18.0);          (
564305.6, 4183155.8,       0.0,      18.0);
    ( 564330.6, 4183155.8,       0.0,      18.0);          (
564255.6, 4183180.8,       0.0,      18.0);
    ( 564280.6, 4183180.8,       0.0,      18.0);          (
564305.6, 4183180.8,       0.0,      18.0);
    ( 564330.6, 4183180.8,       0.0,      18.0);          (
564355.6, 4183180.8,       0.0,      18.0);
    ( 564457.1, 4183184.2,       0.0,      18.0);          (
564477.1, 4183184.8,       0.0,      18.0);
    ( 564205.6, 4183205.8,       0.0,      18.0);          (
564230.6, 4183205.8,       0.0,      18.0);
    ( 564255.6, 4183205.8,       0.0,      18.0);          (
564280.6, 4183205.8,       0.0,      18.0);
    ( 564305.6, 4183205.8,       0.0,      18.0);          (
564330.6, 4183205.8,       0.0,      18.0);
    ( 564355.6, 4183205.8,       0.0,      18.0);          (
564405.6, 4183205.8,       0.0,      18.0);
    ( 564430.6, 4183205.8,       0.0,      18.0);          (
564455.6, 4183205.8,       0.0,      18.0);
    ( 564480.6, 4183205.8,       0.0,      18.0);          (
564155.6, 4183230.8,       0.0,      18.0);
    ( 564180.6, 4183230.8,       0.0,      18.0);          (
564205.6, 4183230.8,       0.0,      18.0);
    ( 564230.6, 4183230.8,       0.0,      18.0);          (
564280.6, 4183230.8,       0.0,      18.0);
    ( 564305.6, 4183230.8,       0.0,      18.0);          (
564330.6, 4183220.0,       0.0,      18.0);
    ( 564405.6, 4183230.8,       0.0,      18.0);          (
564430.6, 4183230.8,       0.0,      18.0);
    ( 564455.6, 4183230.8,       0.0,      18.0);          (
564480.6, 4183230.8,       0.0,      18.0);
    ( 564105.6, 4183255.8,       0.0,      18.0);          (
564130.6, 4183255.8,       0.0,      18.0);
    ( 564155.6, 4183255.8,       0.0,      18.0);          (
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564180.6, 4183255.8,       0.0,      18.0);
    ( 564205.6, 4183255.8,       0.0,      18.0);          (
564230.6, 4183255.8,       0.0,      18.0);
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CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564255.6, 4183255.8, 0.0, 18.0); (564305.6, 4183255.8, 0.0, 18.0);
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(564080.6, 4183280.8, 0.0, 18.0); (564105.6, 4183280.8, 0.0, 18.0);
(564130.6, 4183280.8, 0.0, 18.0); (564155.6, 4183280.8, 0.0, 18.0);
(564180.6, 4183280.8, 0.0, 18.0); (564205.6, 4183280.8, 0.0, 18.0);
(564230.6, 4183280.8, 0.0, 18.0); (564255.6, 4183280.8, 0.0, 18.0);
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(564105.6, 4183305.8, 0.0, 18.0); (564130.6, 4183305.8, 0.0, 18.0);
(564155.6, 4183305.8, 0.0, 18.0); (564180.6, 4183305.8, 0.0, 18.0);
(564205.6, 4183305.8, 0.0, 18.0); (564230.6, 4183305.8, 0.0, 18.0);
(564255.6, 4183305.8, 0.0, 18.0); (564280.6, 4183305.8, 0.0, 18.0);
(564305.6, 4183305.8, 0.0, 18.0); (564330.6, 4183305.8, 0.0, 18.0);
(564350.7, 4183306.3, 0.0, 18.0); (564105.6, 4183330.8, 0.0, 18.0);
(564130.6, 4183330.8, 0.0, 18.0); (564155.6, 4183330.8, 0.0, 18.0);
(564205.6, 4183330.8, 0.0, 18.0); (564230.6, 4183330.8, 0.0, 18.0);
(564255.6, 4183330.8, 0.0, 18.0); (

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    ( 564080.6, 4183355.8,       0.0,      18.0);          (
564105.6, 4183355.8,       0.0,      18.0);
    ( 564130.6, 4183355.8,       0.0,      18.0);          (
564155.6, 4183355.8,       0.0,      18.0);
    ( 564205.6, 4183355.8,       0.0,      18.0);          (
564230.6, 4183355.8,       0.0,      18.0);
    ( 564080.6, 4183380.8,       0.0,      18.0);          (
564105.6, 4183380.8,       0.0,      18.0);
    ( 564130.6, 4183380.8,       0.0,      18.0);          (
564205.6, 4183380.8,       0.0,      18.0);
    ( 564230.6, 4183380.8,       0.0,      18.0);          (
564255.6, 4183380.8,       0.0,      18.0);
    ( 564230.6, 4183405.8,       0.0,      18.0);          (
564255.6, 4183405.8,       0.0,      18.0);
    ( 564280.6, 4183405.8,       0.0,      18.0);          (
564137.9, 4183424.8,       0.0,      18.0);
    ( 564151.6, 4183418.2,       0.0,      18.0);          (
564255.6, 4183430.8,       0.0,      18.0);
    ( 564280.6, 4183430.8,       0.0,      18.0);          (
564655.6, 4183605.8,       0.0,      18.0);
    ( 564228.1, 4183369.8,       0.0,      18.0);          (
564430.1, 4183487.0,       0.0,      18.0);
    ( 564455.1, 4183487.0,       0.0,      18.0);          (
564480.1, 4183487.0,       0.0,      18.0);
    ( 564405.9, 4183508.0,       0.0,      18.0);          (
564430.1, 4183512.0,       0.0,      18.0);
    ( 564455.1, 4183512.0,       0.0,      18.0);          (
564480.1, 4183512.0,       0.0,      18.0);
    ( 564505.1, 4183512.0,       0.0,      18.0);          (
564430.1, 4183537.0,       0.0,      18.0);
    ( 564455.1, 4183537.0,       0.0,      18.0);          (
564228.1, 4183369.8,       0.0,       1.5);
    ( 564430.1, 4183487.0,       0.0,       1.5);          (
564455.1, 4183487.0,       0.0,       1.5);
    ( 564480.1, 4183487.0,       0.0,       1.5);          (
564405.9, 4183508.0,       0.0,       1.5);
    ( 564430.1, 4183512.0,       0.0,       1.5);          (
564455.1, 4183512.0,       0.0,       1.5);
    ( 564480.1, 4183512.0,       0.0,       1.5);          (
564505.1, 4183512.0,       0.0,       1.5);
    ( 564430.1, 4183537.0,       0.0,       1.5);          (
564455.1, 4183537.0,       0.0,       1.5);
    ( 564228.1, 4183369.8,       0.0,       6.0);          (
564430.1, 4183487.0,       0.0,       6.0);
    ( 564455.1, 4183487.0,       0.0,       6.0);          (
564480.1, 4183487.0,       0.0,       6.0);
    ( 564405.9, 4183508.0,       0.0,       6.0);          (
564430.1, 4183512.0,       0.0,       6.0);
    ( 564455.1, 4183512.0,       0.0,       6.0);          (
564480.1, 4183512.0,       0.0,       6.0);
    ( 564505.1, 4183512.0,       0.0,       6.0);          (
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564430.1, 4183537.0,       0.0,       6.0);
    ( 564455.1, 4183537.0,       0.0,       6.0);          (
564228.1, 4183369.8,       0.0,      12.0);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564430.1, 4183487.0, 0.0, 12.0); (564455.1, 4183487.0, 0.0, 12.0);
(564480.1, 4183487.0, 0.0, 12.0); (564405.9, 4183508.0, 0.0, 12.0);
(564430.1, 4183512.0, 0.0, 12.0); (564455.1, 4183512.0, 0.0, 12.0);
(564480.1, 4183512.0, 0.0, 12.0); (564505.1, 4183512.0, 0.0, 12.0);
(564430.1, 4183537.0, 0.0, 12.0); (564455.1, 4183537.0, 0.0, 12.0);
(564455.1, 4183462.0, 0.0, 1.5); (564480.1, 4183462.0, 0.0, 1.5);
(564455.1, 4183462.0, 0.0, 6.0); (564480.1, 4183462.0, 0.0, 6.0);
(564455.1, 4183462.0, 0.0, 12.0); (564480.1, 4183462.0, 0.0, 12.0);
(564455.1, 4183462.0, 0.0, 18.0); (564480.1, 4183462.0, 0.0, 18.0);
(564535.5, 4183432.2, 0.0, 18.0); (564560.5, 4183432.2, 0.0, 18.0);
(564585.5, 4183432.2, 0.0, 18.0); (564511.3, 4183453.3, 0.0, 18.0);
(564535.5, 4183457.2, 0.0, 18.0); (564560.5, 4183457.2, 0.0, 18.0);
(564585.5, 4183457.2, 0.0, 18.0); (564610.5, 4183457.2, 0.0, 18.0);
(564535.5, 4183482.2, 0.0, 18.0); (564560.5, 4183482.2, 0.0, 18.0);
(564535.5, 4183432.2, 0.0, 1.5); (564560.5, 4183432.2, 0.0, 1.5);
(564585.5, 4183432.2, 0.0, 1.5); (564511.3, 4183453.3, 0.0, 1.5);
(564535.5, 4183457.2, 0.0, 1.5); (564560.5, 4183457.2, 0.0, 1.5);
(564585.5, 4183457.2, 0.0, 1.5); (

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    ( 564535.5, 4183482.2,       0.0,       1.5);          (
564560.5, 4183482.2,       0.0,       1.5);
    ( 564535.5, 4183432.2,       0.0,       6.0);          (
564560.5, 4183432.2,       0.0,       6.0);
    ( 564585.5, 4183432.2,       0.0,       6.0);          (
564511.3, 4183453.3,       0.0,       6.0);
    ( 564535.5, 4183457.2,       0.0,       6.0);          (
564560.5, 4183457.2,       0.0,       6.0);
    ( 564585.5, 4183457.2,       0.0,       6.0);          (
564610.5, 4183457.2,       0.0,       6.0);
    ( 564535.5, 4183482.2,       0.0,       6.0);          (
564560.5, 4183482.2,       0.0,       6.0);
    ( 564535.5, 4183432.2,       0.0,      12.0);          (
564560.5, 4183432.2,       0.0,      12.0);
    ( 564585.5, 4183432.2,       0.0,      12.0);          (
564511.3, 4183453.3,       0.0,      12.0);
    ( 564535.5, 4183457.2,       0.0,      12.0);          (
564560.5, 4183457.2,       0.0,      12.0);
    ( 564585.5, 4183457.2,       0.0,      12.0);          (
564610.5, 4183457.2,       0.0,      12.0);
    ( 564535.5, 4183482.2,       0.0,      12.0);          (
564560.5, 4183482.2,       0.0,      12.0);
    ( 564560.5, 4183407.2,       0.0,       1.5);          (
564585.5, 4183407.2,       0.0,       1.5);
    ( 564560.5, 4183407.2,       0.0,       6.0);          (
564585.5, 4183407.2,       0.0,       6.0);
    ( 564560.5, 4183407.2,       0.0,      12.0);          (
564585.5, 4183407.2,       0.0,      12.0);
    ( 564560.5, 4183407.2,       0.0,      18.0);          (
564585.5, 4183407.2,       0.0,      18.0);
    ( 564640.9, 4183386.2,       0.0,      18.0);          (
564665.9, 4183386.2,       0.0,      18.0);
    ( 564616.8, 4183407.2,       0.0,      18.0);          (
564640.9, 4183411.2,       0.0,      18.0);
    ( 564665.9, 4183411.2,       0.0,      18.0);          (
564640.9, 4183436.2,       0.0,      18.0);
    ( 564665.9, 4183436.2,       0.0,      18.0);          (
564640.9, 4183386.2,       0.0,       1.5);
    ( 564665.9, 4183386.2,       0.0,       1.5);          (
564616.8, 4183407.2,       0.0,       1.5);
    ( 564640.9, 4183411.2,       0.0,       1.5);          (
564665.9, 4183411.2,       0.0,       1.5);
    ( 564640.9, 4183436.2,       0.0,       1.5);          (
564665.9, 4183436.2,       0.0,       1.5);
    ( 564640.9, 4183386.2,       0.0,       6.0);          (
564665.9, 4183386.2,       0.0,       6.0);
    ( 564616.8, 4183407.2,       0.0,       6.0);          (
564640.9, 4183411.2,       0.0,       6.0);
    ( 564665.9, 4183411.2,       0.0,       6.0);          (
564640.9, 4183436.2,       0.0,       6.0);
    ( 564665.9, 4183436.2,       0.0,       6.0);          (
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564640.9, 4183386.2,       0.0,      12.0);
    ( 564665.9, 4183386.2,       0.0,      12.0);          (
564616.8, 4183407.2,       0.0,      12.0);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564640.9, 4183411.2, 0.0, 12.0); (564665.9, 4183411.2, 0.0, 12.0);
(564640.9, 4183436.2, 0.0, 12.0); (564665.9, 4183436.2, 0.0, 12.0);
(564665.9, 4183361.2, 0.0, 1.5); (564665.9, 4183361.2, 0.0, 6.0);
(564665.9, 4183361.2, 0.0, 12.0); (564665.9, 4183361.2, 0.0, 18.0);
(564468.4, 4183565.2, 0.0, 18.0); (564493.4, 4183565.2, 0.0, 18.0);
(564518.4, 4183565.2, 0.0, 18.0); (564444.2, 4183586.3, 0.0, 18.0);
(564468.4, 4183590.2, 0.0, 18.0); (564493.4, 4183590.2, 0.0, 18.0);
(564518.4, 4183590.2, 0.0, 18.0); (564543.4, 4183590.2, 0.0, 18.0);
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(564518.4, 4183565.2, 0.0, 1.5); (564444.2, 4183586.3, 0.0, 1.5);
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(564518.4, 4183565.2, 0.0, 6.0); (564444.2, 4183586.3, 0.0, 6.0);
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(564518.4, 4183590.2, 0.0, 6.0); (564543.4, 4183590.2, 0.0, 6.0);
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(564518.4, 4183565.2, 0.0, 12.0); (

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564543.4, 4183590.2,       0.0,      12.0);
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    ( 564493.4, 4183540.2,       0.0,      12.0);          (
564518.4, 4183540.2,       0.0,      12.0);
    ( 564493.4, 4183540.2,       0.0,      18.0);          (
564518.4, 4183540.2,       0.0,      18.0);
    ( 564315.4, 4183535.3,       0.0,      18.0);          (
564340.4, 4183535.3,       0.0,      18.0);
    ( 564365.4, 4183535.3,       0.0,      18.0);          (
564291.2, 4183556.2,       0.0,      18.0);
    ( 564315.4, 4183560.2,       0.0,      18.0);          (
564340.4, 4183560.2,       0.0,      18.0);
    ( 564365.4, 4183560.2,       0.0,      18.0);          (
564390.4, 4183560.2,       0.0,      18.0);
    ( 564315.4, 4183585.2,       0.0,      18.0);          (
564340.4, 4183585.2,       0.0,      18.0);
    ( 564315.4, 4183535.3,       0.0,       1.5);          (
564340.4, 4183535.3,       0.0,       1.5);
    ( 564365.4, 4183535.3,       0.0,       1.5);          (
564291.2, 4183556.2,       0.0,       1.5);
    ( 564315.4, 4183560.2,       0.0,       1.5);          (
564340.4, 4183560.2,       0.0,       1.5);
    ( 564365.4, 4183560.2,       0.0,       1.5);          (
564390.4, 4183560.2,       0.0,       1.5);
    ( 564315.4, 4183585.2,       0.0,       1.5);          (
564340.4, 4183585.2,       0.0,       1.5);
    ( 564315.4, 4183535.3,       0.0,       6.0);          (
564340.4, 4183535.3,       0.0,       6.0);
    ( 564365.4, 4183535.3,       0.0,       6.0);          (
564291.2, 4183556.2,       0.0,       6.0);
    ( 564315.4, 4183560.2,       0.0,       6.0);          (
564340.4, 4183560.2,       0.0,       6.0);
    ( 564365.4, 4183560.2,       0.0,       6.0);          (
564390.4, 4183560.2,       0.0,       6.0);
    ( 564315.4, 4183585.2,       0.0,       6.0);          (
564340.4, 4183585.2,       0.0,       6.0);
    ( 564315.4, 4183535.3,       0.0,      12.0);          (
564340.4, 4183535.3,       0.0,      12.0);
    ( 564365.4, 4183535.3,       0.0,      12.0);          (
564291.2, 4183556.2,       0.0,      12.0);
    ( 564315.4, 4183560.2,       0.0,      12.0);          (
564340.4, 4183560.2,       0.0,      12.0);
    ( 564365.4, 4183560.2,       0.0,      12.0);          (
564390.4, 4183560.2,       0.0,      12.0);
    ( 564315.4, 4183585.2,       0.0,      12.0);          (
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564340.4, 4183585.2,       0.0,      12.0);
    ( 564340.4, 4183510.3,       0.0,       1.5);          (
564365.4, 4183510.3,       0.0,       1.5);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564340.4, 4183510.3, 0.0, 6.0); (564365.4, 4183510.3, 0.0, 6.0);
(564340.4, 4183510.3, 0.0, 12.0); (564365.4, 4183510.3, 0.0, 12.0);
(564340.4, 4183510.3, 0.0, 18.0); (564365.4, 4183510.3, 0.0, 18.0);
(564377.7, 4183594.8, 0.0, 18.0); (564402.7, 4183594.8, 0.0, 18.0);
(564427.7, 4183594.8, 0.0, 18.0); (564377.7, 4183594.8, 0.0, 1.5);
(564402.7, 4183594.8, 0.0, 1.5); (564427.7, 4183594.8, 0.0, 1.5);
(564377.7, 4183594.8, 0.0, 6.0); (564402.7, 4183594.8, 0.0, 6.0);
(564427.7, 4183594.8, 0.0, 6.0); (564377.7, 4183594.8, 0.0, 12.0);
(564402.7, 4183594.8, 0.0, 12.0); (564427.7, 4183594.8, 0.0, 12.0);
(564403.8, 4183580.8, 0.0, 1.5); (564402.4, 4183608.0, 0.0, 1.5);
(564403.8, 4183580.8, 0.0, 6.0); (564402.4, 4183608.0, 0.0, 6.0);
(564403.8, 4183580.8, 0.0, 12.0); (564402.4, 4183608.0, 0.0, 12.0);
(564403.8, 4183580.8, 0.0, 18.0); (564402.4, 4183608.0, 0.0, 18.0);
(564428.9, 4183607.8, 0.0, 1.5); (564428.9, 4183607.8, 0.0, 6.0);
(564428.9, 4183607.8, 0.0, 12.0); (564428.9, 4183607.8, 0.0, 18.0);
(564376.3, 4183608.5, 0.0, 1.5); (564376.3, 4183608.5, 0.0, 6.0);
(564376.3, 4183608.5, 0.0, 12.0); (564376.3, 4183608.5, 0.0, 18.0);
(564487.0, 4183607.0, 0.0, 1.5); (

```
564487.0, 4183607.0,       0.0,       6.0);
    ( 564487.0, 4183607.0,       0.0,      12.0);          (
564487.0, 4183607.0,       0.0,      18.0);
    ( 564513.5, 4183606.8,       0.0,       1.5);          (
564513.5, 4183606.8,       0.0,       6.0);
    ( 564513.5, 4183606.8,       0.0,      12.0);          (
564513.5, 4183606.8,       0.0,      18.0);
    ( 564460.9, 4183607.5,       0.0,       1.5);          (
564460.9, 4183607.5,       0.0,       6.0);
    ( 564460.9, 4183607.5,       0.0,      12.0);          (
564460.9, 4183607.5,       0.0,      18.0);
    ( 564544.0, 4183565.0,       0.0,       1.5);          (
564544.0, 4183565.0,       0.0,       6.0);
    ( 564544.0, 4183565.0,       0.0,      12.0);          (
564544.0, 4183565.0,       0.0,      18.0);
    ( 564100.6, 4183062.0,       0.0,       1.5);          (
564100.6, 4183112.0,       0.0,       1.5);
    ( 564126.4, 4183107.8,       0.0,       1.5);          (
564100.6, 4183062.0,       0.0,       6.0);
    ( 564125.6, 4183062.0,       0.0,       6.0);          (
564150.6, 4183062.0,       0.0,       6.0);
    ( 564075.6, 4183087.0,       0.0,       6.0);          (
564100.6, 4183087.0,       0.0,       6.0);
    ( 564125.6, 4183087.0,       0.0,       6.0);          (
564150.6, 4183087.0,       0.0,       6.0);
    ( 564100.6, 4183112.0,       0.0,       6.0);          (
564126.4, 4183107.8,       0.0,       6.0);
    ( 564125.6, 4183062.0,       0.0,       1.5);          (
564100.6, 4183062.0,       0.0,      12.0);
    ( 564125.6, 4183062.0,       0.0,      12.0);          (
564150.6, 4183062.0,       0.0,      12.0);
    ( 564075.6, 4183087.0,       0.0,      12.0);          (
564100.6, 4183087.0,       0.0,      12.0);
    ( 564125.6, 4183087.0,       0.0,      12.0);          (
564150.6, 4183087.0,       0.0,      12.0);
    ( 564100.6, 4183112.0,       0.0,      12.0);          (
564126.4, 4183107.8,       0.0,      12.0);
    ( 564150.6, 4183062.0,       0.0,       1.5);          (
564100.6, 4183062.0,       0.0,      18.0);
    ( 564125.6, 4183062.0,       0.0,      18.0);          (
564150.6, 4183062.0,       0.0,      18.0);
    ( 564075.6, 4183087.0,       0.0,      18.0);          (
564100.6, 4183087.0,       0.0,      18.0);
    ( 564125.6, 4183087.0,       0.0,      18.0);          (
564150.6, 4183087.0,       0.0,      18.0);
    ( 564100.6, 4183112.0,       0.0,      18.0);          (
564126.4, 4183107.8,       0.0,      18.0);
    ( 564075.6, 4183087.0,       0.0,       1.5);          (
564100.6, 4183087.0,       0.0,       1.5);
    ( 564125.6, 4183087.0,       0.0,       1.5);          (
564150.6, 4183087.0,       0.0,       1.5);
    ( 564189.3, 4183019.5,       0.0,       1.5);          (
```

```
564189.3, 4183069.5,       0.0,       1.5);
    ( 564215.1, 4183065.5,       0.0,       1.5);         (
564189.3, 4183019.5,       0.0,       6.0);
```

CONC URBAN FLAT FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)

(METERS)

(564214.3, 4183019.5, 0.0, 6.0); (564239.3, 4183019.5, 0.0, 6.0);
(564164.3, 4183044.5, 0.0, 6.0); (564189.3, 4183044.5, 0.0, 6.0);
(564214.3, 4183044.5, 0.0, 6.0); (564239.3, 4183044.5, 0.0, 6.0);
(564189.3, 4183069.5, 0.0, 6.0); (564215.1, 4183065.5, 0.0, 6.0);
(564214.3, 4183019.5, 0.0, 1.5); (564189.3, 4183019.5, 0.0, 12.0);
(564214.3, 4183019.5, 0.0, 12.0); (564239.3, 4183019.5, 0.0, 12.0);
(564164.3, 4183044.5, 0.0, 12.0); (564189.3, 4183044.5, 0.0, 12.0);
(564214.3, 4183044.5, 0.0, 12.0); (564239.3, 4183044.5, 0.0, 12.0);
(564189.3, 4183069.5, 0.0, 12.0); (564215.1, 4183065.5, 0.0, 12.0);
(564239.3, 4183019.5, 0.0, 1.5); (564189.3, 4183019.5, 0.0, 18.0);
(564214.3, 4183019.5, 0.0, 18.0); (564239.3, 4183019.5, 0.0, 18.0);
(564164.3, 4183044.5, 0.0, 18.0); (564189.3, 4183044.5, 0.0, 18.0);
(564214.3, 4183044.5, 0.0, 18.0); (564239.3, 4183044.5, 0.0, 18.0);
(564189.3, 4183069.5, 0.0, 18.0); (564215.1, 4183065.5, 0.0, 18.0);
(564164.3, 4183044.5, 0.0, 1.5); (564189.3, 4183044.5, 0.0, 1.5);
(564214.3, 4183044.5, 0.0, 1.5); (564239.3, 4183044.5, 0.0, 1.5);
(564092.5, 4183044.0, 0.0, 1.5); (564118.2, 4183039.8, 0.0, 1.5);
(564067.5, 4183019.0, 0.0, 6.0); (

```
564092.5, 4183019.0,       0.0,       6.0);
    ( 564117.5, 4183019.0,       0.0,       6.0);          (
564142.5, 4183019.0,       0.0,       6.0);
    ( 564092.5, 4183044.0,       0.0,       6.0);          (
564118.2, 4183039.8,       0.0,       6.0);
    ( 564067.5, 4183019.0,       0.0,      12.0);          (
564092.5, 4183019.0,       0.0,      12.0);
    ( 564117.5, 4183019.0,       0.0,      12.0);          (
564142.5, 4183019.0,       0.0,      12.0);
    ( 564092.5, 4183044.0,       0.0,      12.0);          (
564118.2, 4183039.8,       0.0,      12.0);
    ( 564067.5, 4183019.0,       0.0,      18.0);          (
564092.5, 4183019.0,       0.0,      18.0);
    ( 564117.5, 4183019.0,       0.0,      18.0);          (
564142.5, 4183019.0,       0.0,      18.0);
    ( 564092.5, 4183044.0,       0.0,      18.0);          (
564118.2, 4183039.8,       0.0,      18.0);
    ( 564067.5, 4183019.0,       0.0,       1.5);          (
564092.5, 4183019.0,       0.0,       1.5);
    ( 564117.5, 4183019.0,       0.0,       1.5);          (
564142.5, 4183019.0,       0.0,       1.5);
    ( 564326.4, 4183232.8,       0.0,     100.0);          (
564363.4, 4183310.5,       0.0,     100.0);
    ( 564315.3, 4183332.8,       0.0,     100.0);          (
564350.9, 4183407.5,       0.0,     100.0);
    ( 564447.8, 4183358.8,       0.0,     100.0);          (
564375.9, 4183209.2,       0.0,     100.0);
```

```
 *** ISCST3 - VERSION 02035 ***    *** C:\Lakes\AERMOD View
\CostPlus\JackLondonSquare_CostPlus\JackLondonSq ***
03/27/15
                                   ***
***        07:14:59
**MODELOPTs:
PAGE  13
CONC                    URBAN FLAT  FLGPOL DFAULT


                                         *** METEOROLOGICAL
DAYS SELECTED FOR PROCESSING ***
                                                            (1
=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL
ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.



                               *** UPPER BOUND OF FIRST THROUGH
FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

                                                1.54,   3.09,
5.14,   8.23,  10.80,


                                                  *** WIND
PROFILE EXPONENTS ***


               STABILITY                             WIND SPEED
CATEGORY
               CATEGORY        1              2              3
```

4	5	6	
	A	.15000E+00	.15000E+00
.15000E+00	.15000E+00	.15000E+00	.15000E+00
	B	.15000E+00	.15000E+00
.15000E+00	.15000E+00	.15000E+00	.15000E+00
	C	.20000E+00	.20000E+00
.20000E+00	.20000E+00	.20000E+00	.20000E+00
	D	.25000E+00	.25000E+00
.25000E+00	.25000E+00	.25000E+00	.25000E+00
	E	.30000E+00	.30000E+00
.30000E+00	.30000E+00	.30000E+00	.30000E+00
	F	.30000E+00	.30000E+00
.30000E+00	.30000E+00	.30000E+00	.30000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS *** (DEGREES KELVIN PER METER)

STABILITY CATEGORY		WIND SPEED CATEGORY	
4	5	6	
	A	.00000E+00	.00000E+00
.00000E+00	.00000E+00	.00000E+00	.00000E+00
	B	.00000E+00	.00000E+00
.00000E+00	.00000E+00	.00000E+00	.00000E+00
	C	.00000E+00	.00000E+00
.00000E+00	.00000E+00	.00000E+00	.00000E+00
	D	.00000E+00	.00000E+00
.00000E+00	.00000E+00	.00000E+00	.00000E+00
	E	.20000E-01	.20000E-01
.20000E-01	.20000E-01	.20000E-01	.20000E-01
	F	.35000E-01	.35000E-01
.35000E-01	.35000E-01	.35000E-01	.35000E-01

CATEGORY	1	2	3

CONC URBAN FLAT FLGPOL DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: METDAT~1\300MMI~1\OST003RA.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 1804 UPPER AIR STATION NO.: 1804
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 2000 YEAR: 2000

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
00	01	01	01	3.0	2.55	283.5	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	02	355.0	1.83	283.3	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	03	94.5	1.97	283.2	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	04	152.6	3.89	282.3	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	05	164.1	4.47	281.8	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	06	172.0	5.01	281.9	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	07	178.7	2.73	282.0	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	08	148.7	2.19	282.0	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	09	133.5	2.37	281.8	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	10	153.8	1.92	282.0	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	11	351.9	1.25	282.8	2	300.0	300.0	0.0000	0.0	0.0000	0	0.00
00	01	01	12	53.1	2.15	283.1	1	300.0	300.0	0.0000				

```
0.0  0.0000   0   0.00
00 01 01 13  112.2   2.59  282.9   2     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 14  127.9   1.92  283.3   3     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 15  104.2   1.70  284.3   2     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 16  125.0   7.29  284.5   3     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 17  119.0   8.72  284.6   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 18  126.9   7.64  284.0   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 19  130.0   6.97  283.8   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 20  124.8   5.99  283.6   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 21  111.9   5.50  283.4   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 22  126.9   5.10  283.0   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 23  133.0   6.44  282.8   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00
00 01 01 24  155.4   4.74  282.3   4     300.0   300.0    0.0000
0.0  0.0000   0   0.00


*** NOTES:  STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
            FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS
BLOWING.
```

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564355.56	4183055.75	0.27956	(00122423)	564380.56	4183055.75	0.27269	(00052106)
564405.56	4183055.75	0.25689	(00091703)	564330.56	4183080.75	0.32002	(00110407)
564355.56	4183080.75	0.32015	(00122423)	564380.56	4183080.75	0.31188	(00052106)
564405.56	4183080.75	0.28974	(00111905)	564580.56	4183080.75	0.18215	(00081607)
564606.00	4183070.75	0.18614	(00081602)	564355.56	4183105.75	0.36927	(00122423)
564381.31	4183101.50	0.34936	(00091804)	564305.56	4183155.75	0.46001	(00012020)
564330.56	4183155.75	0.48570	(00032204)	564255.56	4183180.75	0.42452	(00110402)
564280.56	4183180.75	0.48435	(00091724)	564305.56	4183180.75	0.52641	(00032804)
564330.56	4183180.75	0.54462	(00092324)	564355.56	4183180.75	0.57163	(00093006)
564457.06	4183184.25	0.29920	(00020824)	564477.13	4183184.75	0.27741	(00092924)
564205.56	4183205.75	0.33808	(00032807)	564230.56	4183205.75	0.38004	(00012102)
564255.56	4183205.75	0.43549	(00092504)	564280.56	4183205.75	0.51290	(00112004)
564305.56	4183205.75	0.59042	(00081603)	564330.56	4183205.75	0.58547	(00011221)
564355.56	4183205.75	0.56875	(00093006)				

564405.56   4183205.75   0.46445 (00121705)
       564430.56   4183205.75   0.36735 (00113002)
564455.56   4183205.75   0.32669 (00021807)
       564480.56   4183205.75   0.30249 (00112402)
564155.56   4183230.75   0.28479 (00011207)
       564180.56   4183230.75   0.30858 (00011207)
564205.56   4183230.75   0.33992 (00011207)
       564230.56   4183230.75   0.38008 (00090702)
564280.56   4183230.75   0.49026 (00032807)
       564305.56   4183230.75   0.56742 (00112004)
564330.56   4183220.00   0.58537 (00122024)
       564405.56   4183230.75   0.46098 (00110202)
564430.56   4183230.75   0.39083 (00112401)
       564455.56   4183230.75   0.37427 (00031505)
564480.56   4183230.75   0.34176 (00121922)
       564105.56   4183255.75   0.26238 (00052107)
564130.56   4183255.75   0.27651 (00011207)
       564155.56   4183255.75   0.29242 (00090702)
564180.56   4183255.75   0.30928 (00052006)
       564205.56   4183255.75   0.33185 (00092323)
564230.56   4183255.75   0.36611 (00010704)
       564255.56   4183255.75   0.41013 (00092323)
564305.56   4183255.75   0.50172 (00011207)
       564330.56   4183255.75   0.54999 (00091801)
564418.69   4183257.75   0.44471 (00020603)
       564449.88   4183248.00   0.42156 (00112402)
564055.56   4183280.75   0.24659 (00010704)
       564080.56   4183280.75   0.26291 (00010704)
564105.56   4183280.75   0.27992 (00092323)
       564130.56   4183280.75   0.29845 (00011208)
564155.56   4183280.75   0.31934 (00052107)
       564180.56   4183280.75   0.34191 (00011207)
564205.56   4183280.75   0.36723 (00052006)
       564230.56   4183280.75   0.39047 (00052006)
564255.56   4183280.75   0.42132 (00032807)
       564305.56   4183280.75   0.48825 (00042005)
564330.56   4183280.75   0.53075 (00092504)
       564055.56   4183305.75   0.26038 (00090504)
564080.56   4183305.75   0.27913 (00090504)
       564105.56   4183305.75   0.30129 (00111907)
564130.56   4183305.75   0.32618 (00090706)
       564155.56   4183305.75   0.35359 (00010704)
564180.56   4183305.75   0.38904 (00010704)
       564205.56   4183305.75   0.42798 (00011208)
564230.56   4183305.75   0.47091 (00052107)
       564255.56   4183305.75   0.51738 (00052107)
564280.56   4183305.75   0.56581 (00011207)
       564305.56   4183305.75   0.60894 (00052006)
564330.56   4183305.75   0.62878 (00032807)
       564350.69   4183306.25   0.61317 (00032807)
564105.56   4183330.75   0.32311 (00101605)
       564130.56   4183330.75   0.35469 (00101605)

564155.56 4183330.75 0.39206 (00101605)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564205.56	4183330.75	0.49607	(00112102)
564230.56	4183330.75	0.56733	(00112102)
564255.56	4183330.75	0.65171	(00090504)
564280.56	4183330.75	0.73989	(00090504)
564080.56	4183355.75	0.30995	(00123101)
564105.56	4183355.75	0.34103	(00123101)
564130.56	4183355.75	0.37828	(00123101)
564155.56	4183355.75	0.42340	(00123101)
564205.56	4183355.75	0.54504	(00123101)
564230.56	4183355.75	0.62999	(00101604)
564080.56	4183380.75	0.31850	(00103108)
564105.56	4183380.75	0.35173	(00122305)
564130.56	4183380.75	0.39095	(00090703)
564205.56	4183380.75	0.54533	(00011204)
564230.56	4183380.75	0.63620	(00011204)
564255.56	4183380.75	0.73261	(00011204)
564230.56	4183405.75	0.61691	(00011203)
564255.56	4183405.75	0.69825	(00122102)
564280.56	4183405.75	0.79217	(00112422)
564137.94	4183424.75	0.39340	(00102406)
564151.62	4183418.25	0.42051	(00021801)
564255.56	4183430.75	0.60851	(00111908)
564280.56	4183430.75	0.64575	(00090305)
564655.56	4183605.75	0.17670	(00121823)
564355.56	4183055.75	0.26347	(00122423)
564380.56	4183055.75	0.25712	(00052105)
564405.56	4183055.75	0.24251	(00091703)

564330.56   4183080.75   0.29841 (00091803)
       564355.56   4183080.75   0.29790 (00122423)
564380.56   4183080.75   0.29050 (00052106)
       564405.56   4183080.75   0.27054 (00121102)
564580.56   4183080.75   0.17114 (00081602)
       564606.00   4183070.75   0.17542 (00011701)
564355.56   4183105.75   0.33782 (00122423)
       564381.31   4183101.50   0.32103 (00052106)
564305.56   4183155.75   0.40928 (00012020)
       564330.56   4183155.75   0.42815 (00032204)
564255.56   4183180.75   0.38518 (00091308)
       564280.56   4183180.75   0.43130 (00091724)
564305.56   4183180.75   0.46360 (00032804)
       564330.56   4183180.75   0.48201 (00092324)
564355.56   4183180.75   0.51891 (00112024)
       564457.06   4183184.25   0.27045 (00020824)
564477.13   4183184.75   0.25337 (00092924)
       564205.56   4183205.75   0.31605 (00032807)
564230.56   4183205.75   0.34924 (00042005)
       564255.56   4183205.75   0.39182 (00122003)
564280.56   4183205.75   0.45493 (00112004)
       564305.56   4183205.75   0.53740 (00081603)
564330.56   4183205.75   0.57918 (00011221)
       564355.56   4183205.75   0.64675 (00091803)
564405.56   4183205.75   0.41557 (00110202)
       564430.56   4183205.75   0.32267 (00112401)
564455.56   4183205.75   0.29104 (00021807)
       564480.56   4183205.75   0.27307 (00112402)
564155.56   4183230.75   0.27234 (00011207)
       564180.56   4183230.75   0.29242 (00011207)
564205.56   4183230.75   0.31794 (00011207)
       564230.56   4183230.75   0.34909 (00090702)
564280.56   4183230.75   0.43809 (00032807)
       564305.56   4183230.75   0.55080 (00122304)
564330.56   4183220.00   0.68689 (00101703)
       564405.56   4183230.75   0.45567 (00052101)
564430.56   4183230.75   0.33948 (00112401)
       564455.56   4183230.75   0.32671 (00031505)
564480.56   4183230.75   0.30298 (00121922)
       564105.56   4183255.75   0.25357 (00052107)
564130.56   4183255.75   0.26587 (00052107)
       564155.56   4183255.75   0.27960 (00090702)
564180.56   4183255.75   0.29363 (00052006)
       564205.56   4183255.75   0.31162 (00092323)
564230.56   4183255.75   0.33812 (00092323)
       564255.56   4183255.75   0.37150 (00092323)
564305.56   4183255.75   0.48875 (00011208)
       564330.56   4183255.75   0.68988 (00111803)
564418.69   4183257.75   0.40113 (00092001)
       564449.88   4183248.00   0.36391 (00112402)
564055.56   4183280.75   0.23981 (00010704)
       564080.56   4183280.75   0.25490 (00010704)

564105.56 4183280.75 0.27025 (00092323)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564130.56	4183280.75	0.28668	(00011208)
564155.56	4183280.75	0.30445	(00052107)
564180.56	4183280.75	0.32285	(00011207)
564205.56	4183280.75	0.34325	(00052006)
564230.56	4183280.75	0.36137	(00052006)
564255.56	4183280.75	0.38126	(00032807)
564305.56	4183280.75	0.42938	(00012102)
564330.56	4183280.75	0.54862	(00112102)
564055.56	4183305.75	0.25326	(00090504)
564080.56	4183305.75	0.27061	(00090504)
564105.56	4183305.75	0.29063	(00111907)
564130.56	4183305.75	0.31301	(00090706)
564155.56	4183305.75	0.33654	(00090706)
564180.56	4183305.75	0.36684	(00010704)
564205.56	4183305.75	0.39832	(00092323)
564230.56	4183305.75	0.43104	(00011208)
564255.56	4183305.75	0.46590	(00052107)
564280.56	4183305.75	0.50049	(00011207)
564305.56	4183305.75	0.53806	(00052006)
564330.56	4183305.75	0.59122	(00032807)
564350.69	4183306.25	0.66505	(00012102)
564105.56	4183330.75	0.31171	(00101605)
564130.56	4183330.75	0.34030	(00101605)
564155.56	4183330.75	0.37349	(00101605)
564205.56	4183330.75	0.46061	(00112102)
564230.56	4183330.75	0.51798	(00112102)
564255.56	4183330.75	0.58470	(00112102)

564280.56   4183330.75   0.66865 (00090504)
       564080.56   4183355.75   0.30042 (00123101)
564105.56   4183355.75   0.32906 (00123101)
       564130.56   4183355.75   0.36291 (00123101)
564155.56   4183355.75   0.40314 (00123101)
       564205.56   4183355.75   0.50694 (00123101)
564230.56   4183355.75   0.57779 (00101604)
       564080.56   4183380.75   0.30887 (00103108)
564105.56   4183380.75   0.33965 (00122305)
       564130.56   4183380.75   0.37545 (00090703)
564205.56   4183380.75   0.50981 (00011204)
       564230.56   4183380.75   0.58634 (00011204)
564255.56   4183380.75   0.66519 (00011204)
       564230.56   4183405.75   0.57265 (00011203)
564255.56   4183405.75   0.63919 (00122102)
       564280.56   4183405.75   0.71736 (00112422)
564137.94   4183424.75   0.37833 (00102406)
       564151.62   4183418.25   0.40297 (00021801)
564255.56   4183430.75   0.56240 (00111908)
       564280.56   4183430.75   0.59150 (00090305)
564655.56   4183605.75   0.17120 (00121823)
       564355.56   4183055.75   0.21839 (00122423)
564380.56   4183055.75   0.21348 (00052105)
       564405.56   4183055.75   0.20203 (00091703)
564330.56   4183080.75   0.23930 (00091803)
       564355.56   4183080.75   0.23736 (00122423)
564380.56   4183080.75   0.23214 (00052106)
       564405.56   4183080.75   0.21793 (00091703)
564580.56   4183080.75   0.14193 (00090506)
       564606.00   4183070.75   0.14669 (00121705)
564355.56   4183105.75   0.25520 (00122423)
       564381.31   4183101.50   0.24656 (00052106)
564305.56   4183155.75   0.28020 (00012020)
       564330.56   4183155.75   0.27939 (00032204)
564255.56   4183180.75   0.28384 (00091801)
       564280.56   4183180.75   0.29505 (00091724)
564305.56   4183180.75   0.29047 (00032804)
       564330.56   4183180.75   0.27388 (00092324)
564355.56   4183180.75   0.27163 (00011902)
       564457.06   4183184.25   0.19618 (00112421)
564477.13   4183184.75   0.18981 (00092924)
       564205.56   4183205.75   0.25640 (00032807)
564230.56   4183205.75   0.26944 (00042005)
       564255.56   4183205.75   0.28229 (00122003)
564280.56   4183205.75   0.29560 (00112004)
       564305.56   4183205.75   0.29288 (00081603)
564330.56   4183205.75   0.25664 (00032804)
       564355.56   4183205.75   0.24460 (00032608)
564405.56   4183205.75   0.22544 (00040304)
       564430.56   4183205.75   0.20610 (00020603)
564455.56   4183205.75   0.20043 (00021807)
       564480.56   4183205.75   0.19693 (00112402)

564155.56 4183230.75 0.23664 (00011207)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564180.56	4183230.75	0.24724	(00011207)	564205.56	4183230.75	0.25861	(00090702)
564230.56	4183230.75	0.26909	(00052006)	564280.56	4183230.75	0.27806	(00092504)
564305.56	4183230.75	0.27700	(00110402)	564330.56	4183220.00	0.24544	(00122024)
564405.56	4183230.75	0.19729	(00121705)	564430.56	4183230.75	0.20027	(00112401)
564455.56	4183230.75	0.20710	(00031505)	564480.56	4183230.75	0.20518	(00121922)
564105.56	4183255.75	0.22750	(00052107)	564130.56	4183255.75	0.23543	(00052107)
564155.56	4183255.75	0.24274	(00011207)	564180.56	4183255.75	0.24950	(00011207)
564205.56	4183255.75	0.25687	(00011208)	564230.56	4183255.75	0.26572	(00011208)
564255.56	4183255.75	0.27318	(00011208)	564305.56	4183255.75	0.26280	(00122003)
564330.56	4183255.75	0.23267	(00110402)	564418.69	4183257.75	0.20131	(00010704)
564449.88	4183248.00	0.20839	(00112402)	564055.56	4183280.75	0.21943	(00010704)
564080.56	4183280.75	0.23101	(00010704)	564105.56	4183280.75	0.24169	(00092323)
564130.56	4183280.75	0.25237	(00011208)	564155.56	4183280.75	0.26180	(00011208)
564180.56	4183280.75	0.27147	(00052107)				

564205.56   4183280.75   0.27872 (00011207)
       564230.56   4183280.75   0.28329 (00052006)
564255.56   4183280.75   0.28260 (00052006)
       564305.56   4183280.75   0.26852 (00012102)
564330.56   4183280.75   0.24299 (00092504)
       564055.56   4183305.75   0.23186 (00090504)
564080.56   4183305.75   0.24525 (00090504)
       564105.56   4183305.75   0.25926 (00111907)
564130.56   4183305.75   0.27481 (00111907)
       564155.56   4183305.75   0.28984 (00090706)
564180.56   4183305.75   0.30493 (00010704)
       564205.56   4183305.75   0.31960 (00010704)
564230.56   4183305.75   0.33018 (00092323)
       564255.56   4183305.75   0.33547 (00011208)
564280.56   4183305.75   0.33328 (00052107)
       564305.56   4183305.75   0.31990 (00052107)
564330.56   4183305.75   0.29276 (00090706)
       564350.69   4183306.25   0.27726 (00101605)
564105.56   4183330.75   0.27821 (00112006)
       564130.56   4183330.75   0.29855 (00101605)
564155.56   4183330.75   0.32064 (00101605)
       564205.56   4183330.75   0.36821 (00101605)
564230.56   4183330.75   0.39130 (00101605)
       564255.56   4183330.75   0.41018 (00101605)
564280.56   4183330.75   0.41728 (00101605)
       564080.56   4183355.75   0.27207 (00123101)
564105.56   4183355.75   0.29386 (00123101)
       564130.56   4183355.75   0.31836 (00123101)
564155.56   4183355.75   0.34558 (00123101)
       564205.56   4183355.75   0.40595 (00101604)
564230.56   4183355.75   0.44190 (00101604)
       564080.56   4183380.75   0.28021 (00103108)
564105.56   4183380.75   0.30409 (00090703)
       564130.56   4183380.75   0.33045 (00090703)
564205.56   4183380.75   0.41401 (00011204)
       564230.56   4183380.75   0.45587 (00011204)
564255.56   4183380.75   0.48978 (00011204)
       564230.56   4183405.75   0.45520 (00102406)
564255.56   4183405.75   0.48575 (00110403)
       564280.56   4183405.75   0.51401 (00033007)
564137.94   4183424.75   0.33447 (00102406)
       564151.62   4183418.25   0.35242 (00021801)
564255.56   4183430.75   0.44492 (00102404)
       564280.56   4183430.75   0.45459 (00090404)
564655.56   4183605.75   0.15479 (00121823)
       564355.56   4183055.75   0.16085 (00122423)
564380.56   4183055.75   0.15762 (00052105)
       564405.56   4183055.75   0.15073 (00081607)
564330.56   4183080.75   0.16741 (00091803)
       564355.56   4183080.75   0.16442 (00122423)
564380.56   4183080.75   0.16156 (00052105)
       564405.56   4183080.75   0.15378 (00091703)

564580.56 4183080.75 0.10682 (00031024)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564606.00	4183070.75	0.11142	(00123002)
564355.56	4183105.75	0.16298	(00122423)
564381.31	4183101.50	0.16144	(00052106)
564305.56	4183155.75	0.15449	(00121703)
564330.56	4183155.75	0.16284	(00032608)
564255.56	4183180.75	0.17675	(00091801)
564280.56	4183180.75	0.16437	(00091724)
564305.56	4183180.75	0.14354	(00101703)
564330.56	4183180.75	0.15728	(00032608)
564355.56	4183180.75	0.14968	(00032608)
564457.06	4183184.25	0.11612	(00112421)
564477.13	4183184.75	0.11806	(00092924)
564205.56	4183205.75	0.18506	(00032807)
564230.56	4183205.75	0.18066	(00112723)
564255.56	4183205.75	0.17150	(00012024)
564280.56	4183205.75	0.15640	(00091308)
564305.56	4183205.75	0.13367	(00101808)
564330.56	4183205.75	0.13219	(00032608)
564355.56	4183205.75	0.13859	(00032608)
564405.56	4183205.75	0.11002	(00020710)
564430.56	4183205.75	0.12236	(00110124)
564455.56	4183205.75	0.11545	(00120103)
564480.56	4183205.75	0.11497	(00112402)
564155.56	4183230.75	0.18877	(00011207)
564180.56	4183230.75	0.18962	(00090702)
564205.56	4183230.75	0.18808	(00090702)
564230.56	4183230.75	0.18223	(00052006)

564280.56   4183230.75   0.15006 (00081605)
       564305.56   4183230.75   0.13013 (00090702)
564330.56   4183220.00   0.11812 (00052006)
       564405.56   4183230.75   0.11653 (00052107)
564430.56   4183230.75   0.12099 (00110124)
       564455.56   4183230.75   0.12064 (00120103)
564480.56   4183230.75   0.10771 (00121922)
       564105.56   4183255.75   0.19040 (00052107)
564130.56   4183255.75   0.19306 (00052107)
       564155.56   4183255.75   0.19388 (00052107)
564180.56   4183255.75   0.19299 (00052107)
       564205.56   4183255.75   0.19050 (00011208)
564230.56   4183255.75   0.18557 (00011208)
       564255.56   4183255.75   0.17612 (00011208)
564305.56   4183255.75   0.14454 (00092323)
       564330.56   4183255.75   0.13556 (00010704)
564418.69   4183257.75   0.12728 (00090706)
       564449.88   4183248.00   0.11995 (00120103)
564055.56   4183280.75   0.19006 (00090706)
       564080.56   4183280.75   0.19648 (00010704)
564105.56   4183280.75   0.20189 (00010704)
       564130.56   4183280.75   0.20553 (00092323)
564155.56   4183280.75   0.20726 (00011208)
       564180.56   4183280.75   0.20634 (00011208)
564205.56   4183280.75   0.20240 (00052107)
       564230.56   4183280.75   0.19461 (00052107)
564255.56   4183280.75   0.18329 (00010704)
       564305.56   4183280.75   0.15813 (00090504)
564330.56   4183280.75   0.15094 (00090504)
       564055.56   4183305.75   0.20054 (00112102)
564080.56   4183305.75   0.20865 (00090504)
       564105.56   4183305.75   0.21594 (00090504)
564130.56   4183305.75   0.22247 (00111907)
       564155.56   4183305.75   0.22766 (00111907)
564180.56   4183305.75   0.22993 (00090706)
       564205.56   4183305.75   0.22826 (00090706)
564230.56   4183305.75   0.22207 (00090706)
       564255.56   4183305.75   0.21101 (00111907)
564280.56   4183305.75   0.19645 (00090504)
       564305.56   4183305.75   0.18424 (00120205)
564330.56   4183305.75   0.17456 (00101603)
       564350.69   4183306.25   0.17161 (00060104)
564105.56   4183330.75   0.23127 (00112006)
       564130.56   4183330.75   0.24159 (00112006)
564155.56   4183330.75   0.25096 (00112006)
       564205.56   4183330.75   0.26206 (00112006)
564230.56   4183330.75   0.26014 (00112006)
       564255.56   4183330.75   0.25182 (00101603)
564280.56   4183330.75   0.23686 (00060104)
       564080.56   4183355.75   0.23129 (00123101)
564105.56   4183355.75   0.24435 (00123101)
       564130.56   4183355.75   0.25749 (00123101)

564155.56 4183355.75 0.26985 (00123101)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564205.56	4183355.75	0.29119	(00101604)	564230.56	4183355.75	0.29509	(00101604)
564080.56	4183380.75	0.23889	(00103108)	564105.56	4183380.75	0.25398	(00090703)
564130.56	4183380.75	0.26876	(00090703)	564205.56	4183380.75	0.30031	(00011204)
564230.56	4183380.75	0.31196	(00011204)	564255.56	4183380.75	0.31290	(00011204)
564230.56	4183405.75	0.32086	(00102406)	564255.56	4183405.75	0.32355	(00110403)
564280.56	4183405.75	0.32126	(00033007)	564137.94	4183424.75	0.27405	(00102406)
564151.62	4183418.25	0.28402	(00021801)	564255.56	4183430.75	0.31265	(00102404)
564280.56	4183430.75	0.30957	(00010404)	564655.56	4183605.75	0.13103	(00121823)
564228.12	4183369.75	0.30382	(00090703)	564430.06	4183487.00	0.16999	(00021024)
564455.06	4183487.00	0.15305	(00090508)	564480.06	4183487.00	0.14365	(00012607)
564405.88	4183508.00	0.17251	(00021024)	564430.06	4183512.00	0.15588	(00031804)
564455.06	4183512.00	0.14741	(00012607)	564480.06	4183512.00	0.14703	(00122022)
564505.06	4183512.00	0.14399	(00082124)	564430.06	4183537.00	0.14937	(00011222)
564455.06	4183537.00	0.14908	(00112120)				

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564228.12   4183369.75        0.63319  (00090703)
       564430.06   4183487.00        0.36128  (00050621)
564455.06   4183487.00        0.33939  (00090423)
       564480.06   4183487.00        0.31490  (00122022)
564405.88   4183508.00        0.34278  (00033008)
       564430.06   4183512.00        0.32085  (00011222)
564455.06   4183512.00        0.30118  (00090423)
       564480.06   4183512.00        0.28590  (00122022)
564505.06   4183512.00        0.26952  (00082124)
       564430.06   4183537.00        0.28387  (00011222)
564455.06   4183537.00        0.27219  (00112120)
       564228.12   4183369.75        0.58254  (00090703)
564430.06   4183487.00        0.32736  (00050621)
       564455.06   4183487.00        0.30983  (00090423)
564480.06   4183487.00        0.28874  (00122022)
       564405.88   4183508.00        0.31352  (00033008)
564430.06   4183512.00        0.29576  (00011222)
       564455.06   4183512.00        0.27896  (00090423)
564480.06   4183512.00        0.26621  (00122022)
       564505.06   4183512.00        0.25197  (00082124)
564430.06   4183537.00        0.26503  (00011222)
       564455.06   4183537.00        0.25524  (00112120)
564228.12   4183369.75        0.44997  (00090703)
       564430.06   4183487.00        0.23968  (00090508)
564455.06   4183487.00        0.23223  (00090423)
       564480.06   4183487.00        0.21994  (00122022)
564405.88   4183508.00        0.23642  (00033008)
       564430.06   4183512.00        0.22857  (00011222)
564455.06   4183512.00        0.21883  (00090423)
       564480.06   4183512.00        0.21239  (00122022)
564505.06   4183512.00        0.20364  (00082124)
       564430.06   4183537.00        0.21317  (00011222)
564455.06   4183537.00        0.20815  (00112120)
       564455.06   4183462.00        0.38414  (00111921)
564480.06   4183462.00        0.35621  (00082124)
       564455.06   4183462.00        0.34421  (00111921)
564480.06   4183462.00        0.32131  (00082124)
       564455.06   4183462.00        0.24935  (00090508)
564480.06   4183462.00        0.23231  (00082124)
       564455.06   4183462.00        0.16797  (00112706)
564480.06   4183462.00        0.14773  (00090508)
       564535.50   4183432.25        0.13841  (00011210)
564560.50   4183432.25        0.14879  (00031821)
       564585.50   4183432.25        0.15512  (00031821)
564511.25   4183453.25        0.14042  (00121823)
       564535.50   4183457.25        0.14917  (00111909)
564560.50   4183457.25        0.15763  (00120904)
       564585.50   4183457.25        0.16487  (00012508)
564610.50   4183457.25        0.17003  (00031821)
       564535.50   4183482.25        0.15148  (00121823)
564560.50   4183482.25        0.15829  (00111909)
       564535.50   4183432.25        0.50618  (00120904)
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564560.50 4183432.25 0.46779 (00012508)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564585.50	4183432.25	0.42485	(00031821)
564511.25	4183453.25	0.41578	(00022505)
564535.50	4183457.25	0.40665	(00121823)
564560.50	4183457.25	0.39035	(00120904)
564585.50	4183457.25	0.37217	(00011219)
564610.50	4183457.25	0.34672	(00031821)
564535.50	4183482.25	0.33800	(00022505)
564560.50	4183482.25	0.33435	(00091101)
564535.50	4183432.25	0.42855	(00120904)
564560.50	4183432.25	0.40662	(00012508)
564585.50	4183432.25	0.37768	(00031821)
564511.25	4183453.25	0.36211	(00022505)
564535.50	4183457.25	0.36085	(00091101)
564560.50	4183457.25	0.35171	(00120904)
564585.50	4183457.25	0.33926	(00011219)
564610.50	4183457.25	0.32046	(00031821)
564535.50	4183482.25	0.30773	(00022505)
564560.50	4183482.25	0.30748	(00091101)
564535.50	4183432.25	0.26497	(00120904)
564560.50	4183432.25	0.26783	(00012508)
564585.50	4183432.25	0.26417	(00031821)
564511.25	4183453.25	0.24309	(00081202)
564535.50	4183457.25	0.25214	(00091101)
564560.50	4183457.25	0.25572	(00120904)
564585.50	4183457.25	0.25524	(00091005)
564610.50	4183457.25	0.25065	(00031821)
564535.50	4183482.25	0.23188	(00081202)

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564560.50   4183482.25        0.23711  (00091101)
       564560.50   4183407.25        0.54211  (00123105)
564585.50   4183407.25        0.49121  (00123105)
       564560.50   4183407.25        0.45470  (00123105)
564585.50   4183407.25        0.42473  (00122806)
       564560.50   4183407.25        0.27220  (00123105)
564585.50   4183407.25        0.28228  (00122806)
       564560.50   4183407.25        0.13594  (00122806)
564585.50   4183407.25        0.15655  (00092605)
       564640.94   4183386.25        0.19046  (00122418)
564665.94   4183386.25        0.19816  (00122418)
       564616.75   4183407.25        0.17542  (00012101)
564640.94   4183411.25        0.18363  (00012101)
       564665.94   4183411.25        0.18741  (00012101)
564640.94   4183436.25        0.17721  (00123105)
       564665.94   4183436.25        0.18153  (00122806)
564640.94   4183386.25        0.45087  (00112607)
       564665.94   4183386.25        0.41141  (00021806)
564616.75   4183407.25        0.43655  (00010605)
       564640.94   4183411.25        0.39285  (00010605)
564665.94   4183411.25        0.36277  (00012101)
       564640.94   4183436.25        0.34981  (00123105)
564665.94   4183436.25        0.32316  (00123105)
       564640.94   4183386.25        0.40728  (00021806)
564665.94   4183386.25        0.37878  (00021806)
       564616.75   4183407.25        0.39193  (00010605)
564640.94   4183411.25        0.36027  (00092605)
       564665.94   4183411.25        0.33736  (00012101)
564640.94   4183436.25        0.32460  (00123105)
       564665.94   4183436.25        0.30245  (00122806)
564640.94   4183386.25        0.30173  (00021806)
       564665.94   4183386.25        0.29305  (00021806)
564616.75   4183407.25        0.28381  (00092605)
       564640.94   4183411.25        0.27593  (00012101)
564665.94   4183411.25        0.26884  (00012101)
       564640.94   4183436.25        0.25690  (00123105)
564665.94   4183436.25        0.24873  (00122806)
       564665.94   4183361.25        0.47908  (00052002)
564665.94   4183361.25        0.43532  (00112404)
       564665.94   4183361.25        0.32690  (00060102)
564665.94   4183361.25        0.21401  (00011703)
       564468.38   4183565.25        0.14403  (00112120)
564493.38   4183565.25        0.14183  (00122924)
       564518.38   4183565.25        0.13895  (00122022)
564444.19   4183586.25        0.14297  (00011222)
       564468.38   4183590.25        0.14044  (00123001)
564493.38   4183590.25        0.13788  (00090423)
       564518.38   4183590.25        0.13627  (00122022)
564543.38   4183590.25        0.13032  (00122022)
       564468.38   4183565.25        0.23606  (00112120)
564493.38   4183565.25        0.22734  (00122924)
       564518.38   4183565.25        0.21996  (00122022)
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564444.19 4183586.25 0.22655 (00011222)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564468.38	4183590.25	0.21612	(00123001)
564493.38	4183590.25	0.20852	(00090423)
564518.38	4183590.25	0.20255	(00122022)
564543.38	4183590.25	0.19484	(00122022)
564468.38	4183565.25	0.22398	(00112120)
564493.38	4183565.25	0.21622	(00122924)
564518.38	4183565.25	0.20945	(00122022)
564444.19	4183586.25	0.21576	(00011222)
564468.38	4183590.25	0.20647	(00123001)
564493.38	4183590.25	0.19958	(00090423)
564518.38	4183590.25	0.19422	(00122022)
564543.38	4183590.25	0.18669	(00122022)
564468.38	4183565.25	0.18954	(00112120)
564493.38	4183565.25	0.18436	(00122924)
564518.38	4183565.25	0.17930	(00122022)
564444.19	4183586.25	0.18471	(00011222)
564468.38	4183590.25	0.17853	(00123001)
564493.38	4183590.25	0.17359	(00090423)
564518.38	4183590.25	0.16991	(00122022)
564543.38	4183590.25	0.16296	(00122022)
564493.38	4183540.25	0.24934	(00122022)
564518.38	4183540.25	0.23604	(00122022)
564493.38	4183540.25	0.23533	(00122022)
564518.38	4183540.25	0.22237	(00082124)
564493.38	4183540.25	0.19588	(00122022)
564518.38	4183540.25	0.18695	(00082124)
564493.38	4183540.25	0.14501	(00122022)

564518.38   4183540.25   0.14062 (00082124)
       564315.44   4183535.25   0.20218 (00092302)
564340.44   4183535.25   0.19356 (00031022)
       564365.44   4183535.25   0.18144 (00112706)
564291.25   4183556.25   0.18920 (00092302)
       564315.44   4183560.25   0.18230 (00031022)
564340.44   4183560.25   0.17490 (00112706)
       564365.44   4183560.25   0.16135 (00090508)
564390.44   4183560.25   0.15368 (00031804)
       564315.44   4183585.25   0.16632 (00112706)
564340.44   4183585.25   0.15549 (00090508)
       564315.44   4183535.25   0.30443 (00092302)
564340.44   4183535.25   0.30749 (00021803)
       564365.44   4183535.25   0.31576 (00011704)
564291.25   4183556.25   0.26796 (00092302)
       564315.44   4183560.25   0.26328 (00031022)
564340.44   4183560.25   0.26506 (00021803)
       564365.44   4183560.25   0.27752 (00011704)
564390.44   4183560.25   0.27359 (00112121)
       564315.44   4183585.25   0.22770 (00021803)
564340.44   4183585.25   0.22971 (00021803)
       564315.44   4183535.25   0.29138 (00092302)
564340.44   4183535.25   0.28754 (00031022)
       564365.44   4183535.25   0.29276 (00011704)
564291.25   4183556.25   0.25821 (00092302)
       564315.44   4183560.25   0.25317 (00031022)
564340.44   4183560.25   0.24891 (00021803)
       564365.44   4183560.25   0.26067 (00011704)
564390.44   4183560.25   0.25724 (00112121)
       564315.44   4183585.25   0.21990 (00112706)
564340.44   4183585.25   0.21785 (00021803)
       564315.44   4183535.25   0.25361 (00092302)
564340.44   4183535.25   0.24736 (00031022)
       564365.44   4183535.25   0.23045 (00011704)
564291.25   4183556.25   0.22954 (00092302)
       564315.44   4183560.25   0.22357 (00031022)
564340.44   4183560.25   0.21407 (00112706)
       564365.44   4183560.25   0.21368 (00011704)
564390.44   4183560.25   0.21154 (00112121)
       564315.44   4183585.25   0.19789 (00112706)
564340.44   4183585.25   0.18881 (00090508)
       564340.44   4183510.25   0.35910 (00122503)
564365.44   4183510.25   0.36196 (00011704)
       564340.44   4183510.25   0.33969 (00092302)
564365.44   4183510.25   0.32989 (00011704)
       564340.44   4183510.25   0.28540 (00092302)
564365.44   4183510.25   0.27122 (00031022)
       564340.44   4183510.25   0.21615 (00110119)
564365.44   4183510.25   0.20115 (00031022)
       564377.69   4183594.75   0.14668 (00123023)
564402.69   4183594.75   0.14324 (00112121)
       564427.69   4183594.75   0.14387 (00033008)

564377.69 4183594.75 0.23409 (00123023)

**MODELOPTs:

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564402.69	4183594.75	0.22659	(00112121)
564427.69	4183594.75	0.22504	(00042522)
564377.69	4183594.75	0.22275	(00123023)
564402.69	4183594.75	0.21583	(00112121)
564427.69	4183594.75	0.21461	(00042522)
564377.69	4183594.75	0.19022	(00123023)
564402.69	4183594.75	0.18488	(00112121)
564427.69	4183594.75	0.18451	(00042522)
564403.81	4183580.75	0.23748	(00112121)
564402.38	4183608.00	0.21569	(00112121)
564403.81	4183580.75	0.22524	(00112121)
564402.38	4183608.00	0.20620	(00112121)
564403.81	4183580.75	0.19036	(00112121)
564402.38	4183608.00	0.17865	(00112121)
564403.81	4183580.75	0.14431	(00112121)
564402.38	4183608.00	0.14097	(00112121)
564428.94	4183607.75	0.21340	(00033008)
564428.94	4183607.75	0.20422	(00033008)
564428.94	4183607.75	0.17753	(00033008)
564428.94	4183607.75	0.14087	(00033008)
564376.31	4183608.50	0.21907	(00123023)
564376.31	4183608.50	0.20928	(00123023)
564376.31	4183608.50	0.18094	(00123023)
564376.31	4183608.50	0.14233	(00123023)
564487.00	4183607.00	0.19669	(00112120)
564487.00	4183607.00	0.18882	(00112120)
564487.00	4183607.00	0.16578	(00112120)

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564487.00   4183607.00        0.13369  (00112120)
       564513.50   4183606.75        0.19279  (00122924)
564513.50   4183606.75        0.18537  (00122924)
       564513.50   4183606.75        0.16360  (00111921)
564513.50   4183606.75        0.13322  (00111921)
       564460.88   4183607.50        0.20448  (00011222)
564460.88   4183607.50        0.19603  (00011222)
       564460.88   4183607.50        0.17138  (00011222)
564460.88   4183607.50        0.13724  (00011222)
       564544.00   4183565.00        0.21587  (00082124)
564544.00   4183565.00        0.20621  (00082124)
       564544.00   4183565.00        0.17827  (00082124)
564544.00   4183565.00        0.14034  (00082124)
       564100.62   4183062.00        0.18763  (00091308)
564100.62   4183112.00        0.20877  (00012024)
       564126.38   4183107.75        0.21701  (00111803)
564100.62   4183062.00        0.18271  (00091308)
       564125.62   4183062.00        0.18982  (00090505)
564150.62   4183062.00        0.20124  (00091805)
       564075.62   4183087.00        0.18335  (00111803)
564100.62   4183087.00        0.18817  (00112004)
       564125.62   4183087.00        0.20324  (00112004)
564150.62   4183087.00        0.21438  (00090505)
       564100.62   4183112.00        0.20270  (00012024)
564126.38   4183107.75        0.21003  (00111803)
       564125.62   4183062.00        0.19542  (00090505)
564100.62   4183062.00        0.16787  (00091308)
       564125.62   4183062.00        0.17302  (00090505)
564150.62   4183062.00        0.18146  (00091805)
       564075.62   4183087.00        0.16911  (00111803)
564100.62   4183087.00        0.17196  (00112004)
       564125.62   4183087.00        0.18400  (00112004)
564150.62   4183087.00        0.19185  (00090505)
       564100.62   4183112.00        0.18451  (00012024)
564126.38   4183107.75        0.18928  (00111803)
       564150.62   4183062.00        0.20789  (00091805)
564100.62   4183062.00        0.14591  (00110402)
       564125.62   4183062.00        0.14847  (00090505)
564150.62   4183062.00        0.15308  (00101607)
       564075.62   4183087.00        0.14793  (00111803)
564100.62   4183087.00        0.14866  (00111803)
       564125.62   4183087.00        0.15616  (00112004)
564150.62   4183087.00        0.15983  (00090505)
       564100.62   4183112.00        0.15800  (00012024)
564126.38   4183107.75        0.15955  (00111803)
       564075.62   4183087.00        0.18806  (00111803)
564100.62   4183087.00        0.19356  (00112004)
       564125.62   4183087.00        0.20970  (00112004)
564150.62   4183087.00        0.22199  (00090505)
       564189.31   4183019.50        0.19776  (00032804)
564189.31   4183069.50        0.23232  (00010705)
       564215.06   4183065.50        0.24193  (00101703)
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564189.31 4183019.50 0.19148 (00032804)

CONC URBAN FLAT FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *** INCLUDING SOURCE(S): BLOCKA , BLOCKB , A0000001, A0000002, A0000003, A0000004, A0000005, A0000006,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
564214.31	4183019.50	0.19889	(00101606)	564239.31	4183019.50	0.20482	(00081604)
564164.31	4183044.50	0.19746	(00010705)	564189.31	4183044.50	0.20648	(00122024)
564214.31	4183044.50	0.21621	(00122301)	564239.31	4183044.50	0.22406	(00012020)
564189.31	4183069.50	0.22337	(00010705)	564215.06	4183065.50	0.23173	(00101703)
564214.31	4183019.50	0.20597	(00101606)	564189.31	4183019.50	0.17278	(00032804)
564214.31	4183019.50	0.17792	(00101606)	564239.31	4183019.50	0.18159	(00081604)
564164.31	4183044.50	0.17812	(00010705)	564189.31	4183044.50	0.18441	(00122024)
564214.31	4183044.50	0.19094	(00122301)	564239.31	4183044.50	0.19554	(00012020)
564189.31	4183069.50	0.19717	(00010705)	564215.06	4183065.50	0.20214	(00101703)
564239.31	4183019.50	0.21271	(00081604)	564189.31	4183019.50	0.14581	(00032804)
564214.31	4183019.50	0.14802	(00101606)	564239.31	4183019.50	0.14889	(00081604)
564164.31	4183044.50	0.15025	(00010705)	564189.31	4183044.50	0.15308	(00122024)
564214.31	4183044.50	0.15561	(00122301)	564239.31	4183044.50	0.15633	(00012020)
564189.31	4183069.50	0.16062	(00010705)				

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564215.06   4183065.50        0.16157  (00101703)
       564164.31   4183044.50        0.20395  (00010705)
564189.31   4183044.50        0.21394  (00122024)
       564214.31   4183044.50        0.22483  (00122301)
564239.31   4183044.50        0.23386  (00012020)
       564092.50   4183044.00        0.17730  (00090505)
564118.25   4183039.75        0.18416  (00101607)
       564067.50   4183019.00        0.15690  (00090505)
564092.50   4183019.00        0.16332  (00101607)
       564117.50   4183019.00        0.17033  (00091724)
564142.50   4183019.00        0.17740  (00010705)
       564092.50   4183044.00        0.17297  (00090505)
564118.25   4183039.75        0.17927  (00101607)
       564067.50   4183019.00        0.14653  (00090505)
564092.50   4183019.00        0.15157  (00101607)
       564117.50   4183019.00        0.15710  (00091724)
564142.50   4183019.00        0.16250  (00010705)
       564092.50   4183044.00        0.15986  (00090505)
564118.25   4183039.75        0.16455  (00101607)
       564067.50   4183019.00        0.13081  (00090505)
564092.50   4183019.00        0.13393  (00101607)
       564117.50   4183019.00        0.13741  (00091724)
564142.50   4183019.00        0.14052  (00010705)
       564092.50   4183044.00        0.14029  (00090505)
564118.25   4183039.75        0.14278  (00101607)
       564067.50   4183019.00        0.16030  (00090505)
564092.50   4183019.00        0.16718  (00101607)
       564117.50   4183019.00        0.17469  (00091724)
564142.50   4183019.00        0.18236  (00010705)
       564326.38   4183232.75        0.00587  (00120217)
564363.38   4183310.50        0.00709  (00112112)
       564315.31   4183332.75        0.00930  (00112112)
564350.88   4183407.50        0.00745  (00122516)
       564447.81   4183358.75        0.00354  (00122516)
564375.94   4183209.25        0.00592  (00120217)
```

**MODELOPTs:

CONC URBAN FLAT FLGPOL DFAULT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.79217	ON 00112422:	AT (564280.56, 4183405.75, 0.00, 1.50)	DC	NA

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

```
 *** ISCST3 - VERSION 02035 ***    *** C:\Lakes\AERMOD View
\CostPlus\JackLondonSquare_CostPlus\JackLondonSq ***
03/27/15
                                   ***
***        07:14:59
**MODELOPTs:
PAGE  26
CONC                    URBAN FLAT  FLGPOL DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            0 Warning Message(s)
A Total of            4 Informational Message(s)

A Total of            4 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
              ***  NONE  ***


   ***********************************
   *** ISCST3 Finishes Successfully ***
   ***********************************
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