



DEPARTMENT OF TRANSPORTATION SERVICES

Melvin N. Kaku, Director

POWERS, DUTIES, AND FUNCTIONS

The Department of Transportation Services is responsible for the efficient, safe, and expeditious movement of traffic on City streets and roadways and for planning and coordinating public mass transportation systems and facilities. The City Charter ascribes the following responsibilities to the department:

- Plan, design, operate and maintain transportation systems to meet public needs.
- Locate, select, install and maintain traffic control facilities and devices.
- Approve plans and specifications for the construction, reconstruction and widening of public streets and roads.
- Provide educational programs to promote traffic safety.
- Promulgate rules and regulations for the use of streets and roadways in accordance with standards established by law.

TRANSPORTATION COMMISSION

The Transportation Commission was established by a Charter amendment proposed under Resolution 95-205, CD1, and approved at the November 1996 General Election. The Transportation Commission consists of seven members. The powers, duties and functions of the Transportation Commission are to:

- Evaluate at least annually the performance of the Director of Transportation Services.
- Review and make recommendations on the annual budget prepared by the Director of Transportation Services.
- Review and make recommendations on rules concerning the administration and operation of the department of transportation services.
- Receive, review and make recommendations on complaints regarding the systems, programs and facilities under the Department of Transportation Services.
- Recommend changes to the public transit fare structure when deemed necessary and appropriate
- Review and make recommendations on the performance of public transit and other transportation system contractors under the jurisdiction of the Department of Transportation Services.
- Submit an annual report to the mayor and council.

The commission shall make the recommendations authorized under this subsection to the director of transportation services, mayor, and city council.

TRANSPORTATION PLANNING

The Transportation Planning Division performs overall city-wide transportation planning and programming work required under federal, state and local laws. The division administers and manages transportation planning functions and the capital improvement program budget. The division conducts various transportation planning studies, environmental studies and project planning studies. The division applies for, programs and administers federal funding (Federal Highways Administration and Federal Transit Administration) for city highway and transit projects. The division monitors transportation compliance with federal laws, rules, regulations and grant program requirements, including the city's Disadvantaged Business Enterprise (DBE) Program.

The Transportation Planning Division supports the Department of Transportation Services' director in the federally required statewide and metropolitan transportation planning processes. The division develops, prepares, and monitors the departmental Capital Improvement Program (CIP) and CIP projects. The division develops, administers and manages traffic related data collection studies, performance measures and criteria, operational mitigation strategies related to current federal regulations for the Congestion Management System. The division manages and administers major transit and roadway projects.

Accomplishments:

- Administered the contract for professional services to support the State Department of Transportation in its preparation of environmental documents for the North-South Road Project.
- Waipio Point Access Road Study. Planning and environmental documentation completed. Project is in design phase.
- Closed out Dillingham Boulevard Transit Improvements project contract.

- Completed construction of Kaimuki Business District parking improvements including new attendant parking system.
- Review and comment on the Department of Planning and Permitting (DPP) "Kaneohe Traffic Circulation Study."
- Awarded construction contract for intersection improvements at the Waimano Home Road/Kuala Street/Moanalua Road intersection. This improvement is required by the City as part of the land purchase agreement for the Manana Walmart development.
- Kamokila Boulevard Extension Project. Completed final environmental assessment (FEA). Completed project Memorandum of Agreement (MOA) for signature by affected project agencies and parties.
- Awarded contract to HMS Pac-Nav, Inc. for demonstration project to provide 2 ferry vessels to perform 3 trips in the morning and 3 trips in the afternoon between Kalaeloa and Aloha Tower Pier 9.
- Honolulu High Capacity Transit Corridor Project. Completed and submitted Alternatives Analysis Report to the City Council. Completed NEPA (National Environmental Policy Act) Scoping Report.
- Procured Project Management Support consultant and General Engineering consultant for Honolulu High Capacity Transit Corridor Project.
- Makakilo Drive Extension Project. Completed analysis of alternative alignments for project. Procuring contract to complete planning and conduct environmental documentation.
- Prepared, coordinated, submitted, and administered City's FY 2008 Overall Work Program (OWP).
- Prepared five applications for federal transit assistance for \$27.6 million.
- Administered and managed 15 active federal transit grants, which included the preparation of federal quarterly reports for each grant.
- Coordinated the Federal Transit Administration's Procurement System Review of the City's procurement system.
- Monitored and reported the status of active departmental and Department of Design and Construction (DDC)-delegated CIP projects, Fiscal Years 2001-2007.
- Prepared the department Fiscal Year 2007 CIP budget comprised of traffic, highways, and streets improvements and mass transit projects.
- Coordinated the programming and obligation of approximately \$4,840,000 in FHWA funding for various city projects.
- Reviewed, coordinated, and processed approximately 43 environmental impact and assessment documents for regulatory compliance.
- Reviewed, coordinated, and processed approximately 25 Development Plan revision/amendment and rezoning requests.
- Completed 341 traffic survey reports (traffic volume counts, speed classification counts, pedestrian counts, etc) using the Traffic Request Log to prioritize and monitor outstanding traffic survey requests.
- Responded to 565 traffic data inquiries.
- Updated 54 computerized island-wide maps for traffic count data by adding traffic counts taken during fiscal year 2005.
- Processed 1,533 work requests.
- Coordinated the City's efforts to receive federal funding authorizations in the new federal transportation legislations for the various transportation projects for the City.
- Participation in Oahu Metropolitan Planning Organization's (OahuMPO) 2030 Oahu Regional Transportation Plan: Reviewed baseline data, draft model results, draft system performance analysis of strategic plan packages report and constrained draft/final plan. Completed participation in project with final acceptance of plan in April 2006.
- Coordinated the development of the City's input and prepared amendments to the Fiscal Year 2006-2008 Oahu Transportation Improvement Program (TIP).
- Administered the City's projects identified in the OahuMPO's TIP for Fiscal Years 2006-2008 as required under U.S. Department of Transportation's statutes and regulations to be eligible for approximately \$85 million in federal highway funds and \$118.9 million in federal transit funds.
- Assisted OahuMPO in developing and financially constraining City projects programmed in the FYs 2008-2011 TIP.
- Participated and assisted the State Transportation Planning Office in the development of the Statewide TIP, which is the statewide allocation program for federal highway funding.
- Prepared and processed per Council Resolution 07-005 related to Ewa Transportation Impact Fees an Intergovernmental Agreement between the City and State on collection and distribution of impact fees.
- Continued to provide technical and administrative assistance to the OahuMPO for the Model Development work element.
- Served as a vice-chairman of the Technical Advisory Committee of OahuMPO.

- Coordinated the development of the Fiscal Year 2007 Overall DBE goal for the City's FTA assisted projects.
- Coordinated the development of the Fiscal Year 2006 Overall DBE goal for the City's FTA-assisted projects; submitted quarterly reports to FTA; and submitted periodic reports to the Department of Transportation's DBE Coordinator.
- Established FY 2007-2008 DBE overall goal for the City/DTS to be met through 100% race-neutral means.
- Monitored DTS programs and projects with DBE participation for compliance with DBE rules and regulations.
- Submitted semi-annual progress reports to FTA on DBE participation in DTS transportation programs.

TRAFFIC ENGINEERING DIVISION

This division conducts studies and analysis to: determine and ensure the safe, efficient, and effective operation of the city's streets, roadways, and appurtenant facilities; coordinates and implements engineering programs and projects to improve traffic flow and safety; prepares and processes legal schedules in accordance with the Traffic Code; administers the city's bikeway, pedestrian safety and traffic safety and education programs; and administers the School Traffic Safety Committee.

Mayor's Initiative - Pedestrian Safety

To improve pedestrian safety, DTS has increased their effort in stressing the 4 E's (Engineering, Education, Enforcement and Everyone). Included in these efforts, DTS has:

- Made it policy to install countdown pedestrian signals whenever new traffic signals are installed and is pursuing funding to install countdown signals at various locations.
- Adjusted pedestrian signal timing to provide longer crossing times at intersections where there is a high concentration of elderly and children.
- Initiated the update project to the 1993 Oahu Pedestrian Safety Study to utilize the latest traffic engineering practices and procedures related to pedestrian crosswalks and routes within the public right-of-way. This will serve as guidance for the design and installation of crosswalks and bicycle facilities.
- Made it policy to install high visibility (fluorescent yellow green) pedestrian crossing signs.
- Removed a number of mid-block crosswalks in conjunction with the bus stop realignment program.
- Repainted various crosswalks in high density pedestrian areas.
- Produced public service announcements to be run on all major network and cable stations.

Produced educational pamphlets in eight different languages.

Mayor's Initiative - Drive Akamai

On an interim basis, DTS administered the contract for a City traffic management, planning and public information project (dubbed "Drive Akamai"), which is intended to help minimize the traffic impacts of major construction projects in the Downtown Honolulu/Waikiki area. A website has been established, which is updated daily, to keep drivers informed of road work and lane closures due to major construction projects, in the area from Downtown Honolulu to Waikiki. More interactive features, tools, and information will be added as we continue to improve and expand the website, which can be found at: <http://www.driveakamai.org/>

Urban Honolulu Region Branch

This branch provides traffic engineering and design support for the safe and efficient operation of streets and intersections, and recommends and implements standards for signs, pavement markings, and warning devices for the Urban Honolulu Region, the area generally extending from Makapuu, Ewa to Liliha Street, south of the Koolau Mountain range. The branch also receives, reviews and resolves queries from the public regarding the operation of vehicle and bicycle traffic on streets and facilities; conducts data collection studies for input into management systems; conducts corner sight distance studies; and establishes and administers the Traffic Code Ordinance requirements to maintain efficient and safe vehicle and bicycle facilities. In addition, the branch analyzes and determines warrants for traffic signals.

Accomplishments:

- Completed 623 work orders, including requests and complaints from individuals, public, and private organizations, businesses, and government agencies.
- Conducted 101 maintenance investigations to insure high quality of traffic control devices.

Completed Work Orders - Highlights:

- Performed evaluations for left turn phases at various locations, such as, Pauoa Avenue/Pacific Heights Drive, Queen/Richards Street, Wilder/Makiki Streets.
- Conducted warrant evaluations for all-way stops at various intersections, such as, Young/Artesian Streets, Poki/Dominis Streets, Citron/Paani Streets, Green/Emerson Streets.
- Conducted warrant evaluations for traffic signals at various locations, such as, Palolo Avenue and Paliaina Place, S. King Street and Makahiki Way and University Avenue and Coyne Street.
- Assisted the Transportation Planning Division by providing review comments on Environmental Impact Statements,

Environmental Assessments, etc. on various projects, such as, Arluis Suite Waikiki Wedding Chapel, Queen Medical Center - Rezoning, Height Limit Change, KCC Culinary Institute @ the former Fort Ruger Cannon Club Royal Haw'n Hotel/Sheraton Waikiki Master Plan, Request to acquire or lease portion of Kulamano Place, Ilikai Hotel Master Plan Improvements and 280 Beach Walk Retail Development

- Assisted the Department of Design and Construction in providing file signs and markings drawings for various resurfacing/rehabilitation of streets projects.
- Assisted the Department of Planning and Permitting in providing review comments on construction traffic controls for various projects.
- Assisted the Department of Environmental Services in restricting parking at various locations to facilitate refuse pick up.
- Provided comments to the Department of Budget and Fiscal Services regarding the need for roadway purposes of various City-owned properties considered for disposition.
- Assisted the Honolulu Fire Department by installing parking restrictions along Portlock Road to improve emergency vehicle access.
- Conducted extensive investigation and evaluation of pedestrian traffic and requests for crosswalks and additional traffic control devices on Hobron Lane.
- Assisted PTD with the relocation of a bus stop on King Street fronting First Hawaiian Bank and turning restrictions at Bishop Street to improve bus operations.
- Assisted DDC by completing and evaluation for guardrails on Maunalaha Road.
- Modified signs on Lunalilo Home Road at the median breaks from "No U-Turn for Trucks" to "No U-Turns Except for Cars, Small Vans and Pick-up Trucks".
- At the request of the Liliha Neighborhood Board, implemented parking restrictions on both sides of Huna and Huli Lanes.
- Conducted an extensive investigation into the use of existing freight loading zones in the downtown area.
- Conducted an extensive investigation into the distance of the stop bar from crosswalks in the downtown and Waikiki areas.
- Assisted DFM by conducting an extensive study of crosswalk conditions in the Downtown and Waikiki areas to verify need of re-striping and/or updating to international type.
- Implemented school traffic control improvements at various locations, such as, Myron B Thompson Academy, Niu Valley Intermediate School, St. Patrick's School, Maryknoll School and Roosevelt High School.

Assisted the Corporation Counsel:

- Claim of Enterprise Rent-A-Car against the City
- Civil No. 07-1-0490-03 (EEH), Fellezs v City
- Civil No. 06-1-1482-8 Jeanette Akamine v. Patricio Morales et al

Reviewed:

- Sand Island Misc Sewer Rehab
- Punahou Water System Improvements Part I
- Lunalilo Home Road Improvements
- Kuahea Street Interim Repair
- Winam Avenue 46 KV Underground Ductline
- Keola Lai
- Yuntech Commercial Building, 1260 Young Street
- Kalakaua Ave Sewer Replacement
- Rehab of Sts Unit 43, University Avenue
- Sewer Connection for Queen Emma Summer Palace
- Rehab Sheridan, South, Rycroft Sts
- Rehab of Beretania St from N King to Alapai St
- 345 Queen Street Road Closure
- Kapiolani Blvd 12" Water Main-McCully St to Date St

Outlying Oahu Regional Branch

This branch provides traffic engineering and design support for the safe and efficient operation of streets and intersections, and recommends and implements standards for signs, pavement markings, and warning devices for the Outlying Oahu Region, the area generally extending from west of Liliha Street, Ewa to Kaena, north to Kahuku and along the entire windward side to Waimanalo. The branch also receives, reviews and resolves queries from the public regarding

the operation of vehicle, pedestrian and bicycle traffic on streets and facilities; conducts data collection studies for input into management systems; and establishes and administers the Traffic Code Ordinance requirements to maintain efficient and safe vehicle and bicycle facilities. In addition, the branch analyzes and determines warrants for traffic signals and necessary left-turn phasing.

Accomplishments:

- Investigated 715 requests and complaints from individuals, public, and private organizations, businesses and government agencies.
- Conducted 97 maintenance investigations to ensure high quality traffic control devices.

Completed Work Orders:

- Installed and upgraded school and pedestrian warning signs at various locations.
- Assisted the Department of Design and Construction in various guardrail installation projects.
- Installed speed limit and "No Parking" signs on various streets island-wide to assist the Honolulu Police Department in their enforcement efforts.
- Assisted the Transportation Planning Division by reviewing and providing comments to submitted Environmental Impact Statements, Draft Environmental Assessments, etc.
- Legalized various traffic controls on various streets island-wide.
- Provided comments to the Department of Budget and Fiscal Services regarding the need for roadway purposes of various City owned properties considered for disposition.
- Assisted the Department of Environmental Services in restricting parking at various locations including Naai Street and Harvey Lane to facilitate refuse pick up.
- Assisted the Department of Design and Construction, MEDE Division to relocate signs to newly installed utility poles at various locations.
- Conducted warrant evaluations for all-way stops at various locations including Hui Iwa and Hui Kelu Streets, various intersections along Royal Palm Drive, Hoomoana and Hoolana Streets, etc.
- Conducted warrant evaluations for traffic signals at various locations including Auwaha Street and Renton Road, Ukee and Moaniani Streets, Kapolei Parkway and Kolowaka Drive, etc.
- Installed traffic improvements at various locations including Renton Road, Kaihuopalaai Street, etc.
- Conducted traffic operations studies for school areas including Pearl City Elementary School, Mililani Waena Elementary School, Kaala Elementary School and Waiau Elementary School.

Assisted the Corporation Counsel:

- Anthony Royce V. Miles Tomisato et al Civil 06-1-0297-02 KSSA
- Claim of Kristen Le for Phi The Nguyen
- Claims – Filimoehala, vs. C&C of Honolulu Civil 04-1-1180-10
- Claim - Olga Sabado Estate of Cresile Sabado vs. C&C
- Claims – Kalaukoa , Rossiter, Rowland against City, 09/11/06
- Claims of Marie Joy Ruaburo against City, Sept. 7, 2006
- Claim – Kobashigawa V. Silva Civil No. 06-1-0682-04
- Claim of Thomas Mika Laikupu sv. City North King Street /Akepo Lane
- Gary Thompson/Tiffany Akana – Verdict No Negligence

Reviewed Project/Traffic Control Plans:

- Wanaao Road/Keolu Drive Reconstructed Sewer
- Rehabilitation of Streets – Unit 49
- Waimalu Sewer Rehabilitation
- Palama Street Closure for Gasco
- Paalaa Road Closure between Aukai Lane & Aiau Lane
- Palama Street Closed Between Vineyard Boulevard and King Street
- Kailua Road Sewer Improvement Project
- Peterson and Pua Lanes Sewer Rehabilitation
- Liliha Street Water System Improvements, Phase B

Traffic Safety And Alternate Modes Branch

This branch provides traffic engineering and design support for the safe and efficient operation of streets and intersections by planning, coordinating and implementing traffic calming projects, traffic improvement projects and bikeway projects. It also administers the city's bikeway, pedestrian safety and traffic safety and education programs.

Accomplishments

Constructed:

- Lualualei Homestead Road/Leihoku Street Improvements
- Kaonohi Street/Moanalua Road Intersection Improvements
- Kaahele Street Restriping
- Kipapa Drive Bulbout Modification
- Kamehameha Highway Safety Improvements
- Waialae Kahala Bicycle Staging Area
- Waialae Kahala Bicycle Staging Area – Phase 2
- Traffic Calming Improvements at Various Locations – Makakilo, Manoa, Palolo
- Traffic Calming Improvements at Various Locations – Foster Village
- Traffic Calming Improvements at Various Locations – Salt Lake Roundabout

Under construction:

- WCEAR – Helelua Place Extension
- WCEAR – Paakea Road
- Moanalua Road/Kuala Road/Waimano Home Road Improvements

Under planning/design:

- Traffic Improvements at Various Location – Harding Avenue, 5th and 11th Avenues
- Traffic Maintenance Building Manana
- Kamokila Boulevard Extension
- Moanalua/Kaahumanu Freeway Ramp Extension
- Waipio Point Access Road
- Tantalus Roundtop Topographic Study
- Metcalf Street Improvements
- Miscellaneous Bikeway Improvements – Mehelua Parkway, Waialae Avenue, Kapahulu Avenue, Dole Street, Wilder Avenue

Bicycle Master Plan Update:

- 21st Century Ahupuaa – G car parking program
- Served as secretariat for the Mayor's Advisory Committee on Bicycling; monthly meetings serve to advise DTS and the Mayor on bicycling matters. The committee also serves as a clearinghouse between the City, the State bicycle coordinator and the Hawaii Bicycling League.
- Purchased and distributed various bicycle safety education materials to the public, including bicycle rental agencies in Waikiki.
- Conducted four bicycle traffic safety-training sessions with new "TheBus" drivers joining Oahu Transit Services
- Purchased, relocated, replaced and/or installed 15 bike racks.
- Served as grant manager for the Hawaii Bicycling League's Bike Ed Program for 4th graders.
- Distributed "hot dots" and safety brochures for the "Spot the Dot" pedestrian safety program for Halloween in conjunction with the Honolulu Police Department and the Department of Education via Oahu schools and the City and County Satellite City Hall Division.
- Continued support in commercial driver's training and education (the Oahu Fleet Safety Organization).
- Public education media campaign called "Walk Wise Hawaii," geared to senior pedestrians; radio PSA's, TV PSA's, safety presentations, promotional items and printed safety materials. Partnered with HPD, SDOT, and The Limtiaco Company.
- Produced two bicycle safety public service announcements with a "Share the Road" message and aired spots on local TV stations.
- Received an Honorable Mention Award for "Bicycle Friendly Community" status from the League of American Bicyclists.

TRAFFIC SIGNALS & TECHNOLOGY (TST) DIVISION

The Traffic Signal and Technology Division (TST) develops, implements, operates and maintains the safe and efficient operations of over 789 state and city traffic signals on Oahu. In addition, the division administers, inspects and establishes roadway traffic controls for construction activities, parades, block parties and first amendment events that occur on city streets. The division is responsible for the Honolulu's high tech Traffic Management Center and implementa-

tion of Intelligent Transportation Systems (ITS), a program that improves traffic mobility by employing technology to improve the efficiency of the existing highways.

The division participates in the many elements of ITS, which include traffic signal control, freeway management, incident management, traveler information and transit management systems. For traffic signal control, the center analyzes and optimizes the traffic signal operations and coordinates traffic signals to improve progression for commuters and transit services. Another important function is determining and programming the safe and reasonable crossing times for pedestrians.

For emergency services, the division installs, operates and maintains the emergency pre-emption systems. Emergency pre-emption systems expedite fire and ambulance vehicles saving critical minutes in travel times and minimizing conflicts by holding the green signal at signalized intersections. The requested right of way limits conflict with other vehicles and pedestrians and clears downstream congestion, which may impede its response times. For freeway and incident management, the division installs, operates and maintains the 143 traffic-monitoring cameras located at critical traffic intersections and freeway locations to improve traffic signal progression and monitor highway conditions on alternative streets. For traveler information, another ITS element, in partnership with local television stations, local radio stations and a website, the division promotes and provides traffic information informing commuters about the latest traffic conditions.

For transit management, the division is reviewing transit priority technology that favors transit buses at signalized intersections.

ADMINISTRATION

Division Administration is responsible for effective and efficient management and administration of the division. It establishes the division's policies, goals and objectives, and measures and promotes customer service. Administration also develops cost effective methods and results oriented programs, and reviews streamlining of tasks. At the same time, it establishes a professional level of services, responses and actions to be accomplished in a timely and satisfactory manner. Administration meets with the staff to consult, develop and formulate accurate, accountable and responsible policies and procedures to improve the division's initiatives, quality, professionalism and responses in order to offer the very best in customer services.

The planning of a new Joint Traffic Management Center (JTMC) continues and the Environmental Assessment is expected to be completed by the fall of 2007.

PRELIMINARY SITE PLAN



The Joint Traffic Management Center will improve incident and emergency management, daily traffic management operations and will integrate the city's Emergency Operations Center (EOC) in one location.

Traffic Technology Branch

This branch is responsible for the engineering and design functions of the division. Professional and appropriate planning and designing tasks are its primary responsibilities, ensuring the safest and most efficient



Traffic camera.

traffic signal systems for commuters, pedestrians and bicyclists. Another important function of the branch is providing and meeting the Americans with Disabilities Act (ADA) requirements at traffic signal locations. These include special ADA pedestrian push buttons and audible pedestrian signals. The branch researches, investigates and implements ITS applications, which employ advanced technology to produce higher traffic flow efficiency. The branch administers advanced traveler information through the Internet, providing commuter access to real time traffic conditions.

This branch is also responsible for the expansion of the traffic video camera program that will deliver complete coverage on major highways on Oahu in phases. In order to implement projects, the branch develops, designs, and promotes traffic signal programs that are funded with federal funds. All traffic signals at city or state intersections are designed or reviewed by this branch, which has the final responsibility for the safety and efficiency of the operations. The cost to modernize and upgrade many of the existing traffic signal systems has been paid by federal funds pursued by this branch, reducing the need of city CIP funds. As part of safety and to lower maintenance cost, the branch evaluates and specifies high tech, faultless equipment and energy saving devices. As an example, light emitting diode (LED) traffic and countdown pedestrian signals, which save more than 75 percent on energy costs than conventional incandescent bulb traffic signals, have become the standard for new traffic signal systems installation.



Accomplishments:

- Traffic Signals at Various Locations Project - installing three new traffic signals and upgraded four signalized intersections.
- Installed fiber optic cables to increase bandwidth to add additional traffic cameras
- Connected the City's Traffic Management Center with State's H-3 Tunnel Management Center via fiber optic cable.
- Eight additional (5) traffic cameras installed.
- Reviewed and re-engineered about 1,000 construction plans.
- Assisted the Traffic Signal Branch in improved maintenance techniques and testing methods leading to a more dependable operational system.
- Assisted the Traffic Control Center with improved traffic optimized algorithms, communication and detection technology for more efficient signal operations.



City's Traffic Management Center.

Traffic Control Center Branch

The Traffic Management Center is responsible for the efficient, effective, and safe operation of the 782 traffic signals on Oahu. The division concentrates on reducing unnecessary delays by optimizing traffic signal timings, and reviews the safety measures and concerns from commuters and pedestrians. Efficient traffic signal operations are established through field inspections and analysis, travel time studies and traffic video monitoring. The operational timing plans are frequently reviewed especially during the morning and afternoon peak hours when congestion levels are at the highest.

The center utilizes 148 traffic cameras to provide real time traffic information. The system is an invaluable tool to analyze, select and mitigate traffic congestion. The center will intervene and compensate by implementing special timing plans to ease the related congestion. Related to traffic control, the branch issues street usage permits required for any construction or special events that restrict or block any city roadways. The street usage section is responsible for



Special event lane closure.

enforcing the traffic code, motorcades, parades, house moving, and other nonconforming uses of streets. When travel lanes are reduced, the roadway capacity follows. For special events such as parades or block parties, the branch works with HPD and state DOT to determine the best and safest traffic controls and favorable alternative routes. The center partners with the Department of Information Technology (DIT) to develop the traffic camera web page, which displays real-time pictures to keep commuters informed about local traffic conditions. The web site has become one of Hawaii's most popular addresses. Currently, the site continues to broadcast live traffic videos on the Internet. During peak hours, live traffic videos from the center link to the local television stations, and traffic reporters from various radio stations transmit traffic reports from the traffic center to assist Oahu commuters to better plan their schedules. To provide the City with an extensive communication network, the branch designs, integrates, and expands its fiber optic and traffic signal communication system from Hawaii Kai to Waipahu. The communication channels and bandwidth of the fiber optic system not only serve the traffic center but also can support the future digital data needs of other city departments such as Department of Information and Technology. The branch is currently working on plans to expand the traffic camera system to Kailua side of the island.

Accomplishments:

- Broadcasting radio traffic reports from the traffic center
- Investigated and responded to over 634 traffic concerns
- Adjusted 298 traffic signal operations
- Traffic control for various first amendment marches
- Traffic control for Kamehameha Day Floral Parade, Honolulu Triathlon, Aloha Festival Floral Parade, Honolulu Marathon
- Reviewed and issued 5,682 street usage permits
- Reviewed and issued 99 parade/block party permits
- Reviewed and issued 226 oversize/overweight permits
- Reviewed and issued 85 bike/run permits
- Assisted the Traffic Signal Branch in malfunction diagnostics
- Assisted the Traffic Technology Branch in the improved design and operational functionality of applicable technology and the testing of new systems

Traffic Signals Branch

The branch is responsible for maintaining the 782 state and city traffic signals. When malfunctions occur, the branch responds immediately to repair operations and minimize congestion so that traffic safety can be restored quickly. Traffic signal maintenance, adjustment, and modification capabilities of the branch are available 24 hours a day, 7 days a week. The branch usually responds to any critical malfunctions within an hour. Most malfunctions are corrected within a two-hour span. The branch does interim traffic timing adjustments at trouble spots to quickly resolve traffic issues. For new traffic signal infrastructure needs, the branch does construction improvements. The in-house ability saves considerable and substantial outside contractual costs and delays. This branch maintains the extensive fiber optic and communication cable system, which spreads from the traffic center throughout the city. For state and city construction projects involving traffic signals, the branch inspects the projects to insure operations are safe and equipment is installed in accordance with local codes and standards. The branch does the inspection management for the construction activities designed by the Traffic Technology Branch. This branch continues to improve the technology of the traffic signal systems and maintain efficient and safe traffic signal operations.

The traffic signal branch also assists the neighbor islands in training personnel for the maintenance and repair of the signal system. During emergencies, the branch supplies signal equipment and repairs malfunctioning signal equipment for the neighbor islands.

Accomplishments:

- Responded and repaired 6,024 traffic signal malfunctions and operational reports
- Field inspected and interim adjustments of signal operations for 194 intersections

Traffic Signal Electrician repairing a signal light.



- Assisted the Traffic Control Branch with operational functions and safety requirements at 97 intersections
- Assisted the design technology branch in the revised design and plans of 34 intersections
- Assisted the Traffic Control Center with the operations of the traffic cameras and the maintenance of the fiber optic systems
- Inspected and supervised installation of related traffic signal work for 186 construction projects
- Assisted in evaluating new pedestrian and traffic signal equipment

PUBLIC TRANSIT DIVISION

The Public Transit Division (PTD) is responsible for oversight of the contractor that manages and operates the City's public transit system, including both the fixed route system (TheBus) and the paratransit system (TheHandi-Van). Included in the oversight responsibility is transit performance monitoring; identifying service problems; resolving customer complaints; instituting corrective actions; monitoring budget execution; financial and internal control audits; and contracts for the annual performance audit.

Mayor's Initiative

The Public Transit Division participated in the Mayor's Energy Issues Committee (EIC), which addressed the rising fuel oil prices and its impact to the City's operating budget. The objective of the committee was to brainstorm energy reducing initiatives to offset the City's increasing energy costs. The EIC established three subcommittees: electricity; fuel usage; and innovative ideas ("Out-of-the-Box"). An employee awareness subcommittee was later added to help foster energy conservation at the individual employee level. In early 2007, the EIC evolved into the Mayor's Energy and Sustainability Task Force to develop a 10-year plan to make the City even more energy efficient and sustainable by identifying new technologies and practices that can be used to improve city operations by maximizing energy efficiency, reducing waste and protecting the environment.

As a result of their efforts, SustainLane ranked Honolulu #2 out of 50 large US cities based on the percentage of city vehicles using alternative fuels including biodiesel, hydrogen, ethanol, compressed and natural gas, as well as electric vehicles and gas-hybrid vehicles. Additionally, the recently published Urban Environment Report by Earth Day Network rated Honolulu eleventh out of 72 large U.S. cities

Administration

Administers the day-to-day operations of the division, including workload assignments and personnel management. Responsibilities include ensuring timely completion of all division projects and promotion of community relations relative to the community's public transit needs.

Activities for Fiscal Year 2007:

- National Transit Database: In order to continue receiving Federal Transit Administration (FTA) funds, the city must annually submit reports to the National Transit Database. These reports include financial and operational activities.
- Monthly Bus Pass Subsidy Program: 139 applications processed.
- Middle Street Intermodal Center: Phase 1 – Two construction contracts, Handi-Van Maintenance and Administration Building, and Demolition and Handi-Van Parking, are approximately half completed. Bids for the third contract, Access Roadway, was opened and will be awarded. Phase 2 – Design for three projects within this phase are underway. They are Additional Handi-Van Parking, Intersection Improvement and Signalization at Middle Street, and Covered Platform and Transit Center. Demolition construction contract of Phase 2 area completed.
- Bus Radio Replacement Project: We are in the process of adding full Computer Aided Dispatching and Automatic Vehicle Location for the Paratransit fleet. We will also be adding an interface to the City's Trapeze Paratransit scheduling system to provide real time manifests on Paratransit vehicle mobile data terminals. The current Paratransit fleet of 122 vehicles has expanded to 129. We will be increasing the number of vans to 139.

FY2007 FTA Follow-Up Triennial Review conducted.

Fixed Route Operations Branch

Provides and promotes the most efficient, responsive and cost-effective transit services to the public through contract monitoring, operations administration and public education and information programs:

- To administer the day-to-day operations of TheBus through performance monitoring, policy guidance and direction of TheBus services contractor in methods and practices to deliver the most effective transit services to the public. Patronage of TheBus totaled 67,903,512 passenger trips in FY 2007 compared to 65,844,396 in FY 2006. TheBus operated an estimated total of 1,345,319 bus hours in FY 2007.
- To promote transit ridership by providing guidance for the production of informative and attractive brochures, maps and timetables; to provide information services including administration of the guide-a-ride bus stop information program; to provide telephone and written responses to inquiries, suggestions, complaints and commendations

received from individual citizens, elected officials, Neighborhood Boards, special interest groups and community and government organizations.

- To oversee progress toward compliance with the Americans with Disabilities Act (ADA) with regard to bus operations, bus stop design and installation, and policies and practices of TheBus services contractor.
- To coordinate construction and street usage projects for city and state agencies affecting TheBus operations with the needs of TheBus passengers, traffic safety, and design policies.
- To administer TheBus interior advertising program; this provides revenue to the city through the sale of advertising space within the transit coaches.

Activities for Fiscal Year 2007:

- Conducted community meetings as part of the Bus Service Improvement Plan (BSIP). BSIP is a system-wide review of bus service effectiveness.
- In conjunction with TheBus service contractor, the following programs were continued during this period:
 - ◊ TheBus timetables available to the public at all Satellite City Halls and on TheBus Website.
 - ◊ TheBus provided special services for the Mayor's Memorial Day Service at Punchbowl, Easter Sunrise Service, Great Aloha Run, Veteran's Day Service, Aloha Stadium Football Express for all UH home games and the Pro Bowl football game.
- Bus Stop Realignment Program: A review of City bus stop spacing was started. In the absence of signalized pedestrian crossings, mid-block bus stops are not desirable. In Phases 1 to 4, a total of 518 mid-block or too closely spaced bus stops were identified, and after review, 50 stops have been removed and 14 new stops have been created. Phase 5 is in the evaluation stage.
- Updated rules and regulations for TheBus interior advertising program.
- Advertising revenues:

FY06	FY07
\$118,678.....	\$185,484

Facilities and Equipment Branch

This branch has two major functions: 1) the procurement of vehicles and equipment to support bus and paratransit operations, and 2) the construction and maintenance of bus facilities and improvement activities at 4,000 existing bus stops island-wide. Responsibilities include preparation of bid documents and administration of contracts for projects such as the procurement of new and replacement buses and paratransit vehicles, maintenance of existing bus facilities, construction and maintenance of transit centers, ADA bus stop improvements, bus bays and pads, bus shelters, benches, litter containers and other related projects. The branch also maintains permits for the existing bus facilities and provides assistance to other City and State agencies as requested.

Activities for Fiscal Year 2007:

Procurement of Equipment:

- New Bus Procurement: During the fiscal year, nine (9) fixed route 60-foot low-floor articulated buses and twenty (20) Handi-Van vehicles were procured. Production of the paratransit vehicles commenced before the close of the fiscal year.
- Took delivery of forty (40) 40-foot low-floor hybrid-electric buses and thirty-two (32) paratransit vehicles.
- Took delivery of engines and other components for the repowering of twelve (12) buses.

Construction:

- Mililani Transit Center – Construction commenced and still underway at the close of the fiscal year.
- Waianae Transit Center – Construction commenced and still underway at the close of the fiscal year.
- Kalihi-Palama Bus Facility Improvements – Construction commenced and still underway at the close of the fiscal year.
- ADA Bus Stop Accessibility Project – Phase III construction was completed and plans for Phase IV were in review at the close of the fiscal year.
- Bus Pads – Bus pads were constructed at six (6) sites and the design phase has begun for the next six (6) sites.

Maintenance and Support Activities:

- Contract administration for daily custodial services at Waipahu and Kapolei Transit Centers to clean restrooms, perform litter and graffiti control activities, and landscape maintenance. Contracted services to repair damage to transit centers due to vandalism.
- Contract administration for security services for Waipahu and Kapolei Transit Centers.
- Monthly pressure washing to clean selected bus stops.
- Continuing war against graffiti with full-time work crew to continually maintain over 1,000 bus shelters and respond

to complaints.

- Coordinated volunteer groups and provided materials for graffiti cleanup campaigns.
- In support of the bus stop realignment program, removed and refurbished twenty-five (25) shelters by contract. Demolished four (4) shelters.
- Repaired or replaced seven (7) shelters damaged by accidents.
- Major repair/replacement of four (4) bus shelter roofs.

TheHandi-Van Operations Branch

TheHandi-Van Operations Branch is responsible for planning and implementing an island-wide public transit service for the elderly and persons with disabilities, including monitoring contractor performance, establishing policies for TheHandi-Van services operation and monitoring budget execution. This Branch is also responsible for establishing a program to conduct a continuous transport needs assessment, training persons with disabilities to use the fixed route system and conducting the TheHandi-Van eligibility determination process under the criteria established by the ADA. Also included in the responsibilities is a community outreach program to maintain contact with various agencies supporting the disabled community. The Branch monitors all complaints received regarding the TheHandi-Van system and takes corrective action where appropriate. The Branch maintains daily contact with the contractor operating TheHandi-Van system and monitors operating statistics and fleet availability.

Activities for Fiscal Year 2007:

- Processed ADA TheHandi-Van eligibility applications and Person with a Disability bus pass applications:

	<u>FY06</u>	<u>FY07</u>
• ADA TheHandi-Van Eligibility Applications:.....	4,274	4,217
Conditional eligibility granted:.....	3,349	3,345
Unconditional eligibility granted	763	695
Denied:	158	177

	<u>FY06</u>	<u>FY07</u>
• New In-Person Assessment Applicants:	340	554
Conditional eligibility granted:.....	221	237
Unconditional eligibility granted:.....	62	226
Denied:	12	13
Applicant cancelled:.....	45	78

- Number of TheHandi-Van service incidents, letters of misconduct warning and suspension, no-show suspension, and appeal hearings conducted:

	<u>FY06</u>	<u>FY07</u>
Incidents	106	123
Misconduct warnings issued.....	4	8
Misconduct suspension of service issued	9	6
No-Show suspension of service issued.....	31	0
Appeal hearings conducted	21	5

- The Committee on Accessible Transportation (CAT): CAT provides counsel and advice to the Director of the Department of Transportation Services concerning the transportation goals and objectives for the elderly and persons with disabilities. In addition to reviewing monthly service reports, the CAT reviews policies and procedures regarding TheHandi-Van and TheBus services. The CAT met three times during Fiscal Year 2007.
- Instructor Bus Passes. Issued instructor bus passes to schools and agencies that train disabled students and clients to use the fixed route service.

	<u>FY06</u>	<u>FY07</u>
Trips Taken:.....	18,000+	21,000+
Instructor Passes issued:	406	640