

New Day in Hawaii

AGENDA

1. Major Projects in construction on Interstate Route H1/H2
2. Major Projects in construction on Oahu Major Highways
Major Projects in Planning and Design for construction in 2014
3. Discussion on General Project Delivery Process

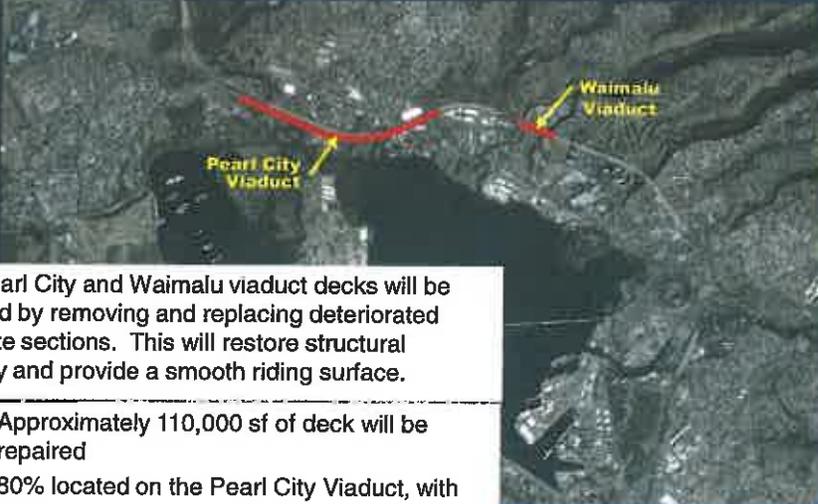
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Highways Division
Interstate Route H-1 PM Contraflow
Current Conditions



- 3 to 7 westbound lanes, with 3 continuous thru lanes
- Regularly congested in PM peak period
- Peak period = 40,000+ vehicles per day
- Delay time = 10 to 20 minutes per vehicle per day

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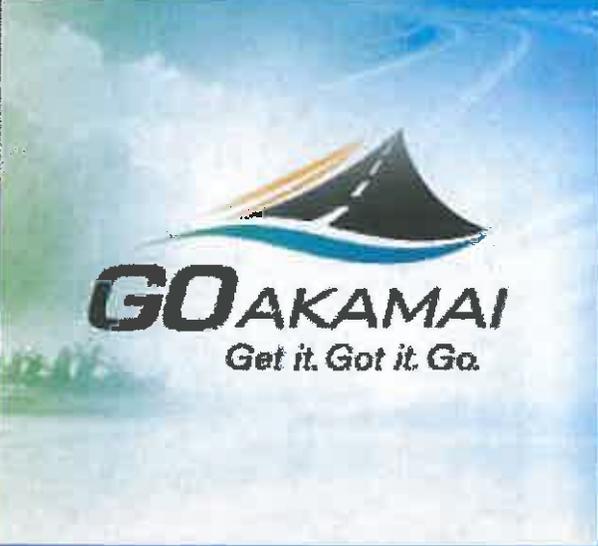


The Pearl City and Waimalu viaduct decks will be repaired by removing and replacing deteriorated concrete sections. This will restore structural integrity and provide a smooth riding surface.

- Approximately 110,000 sf of deck will be repaired
- 80% located on the Pearl City Viaduct, with remaining 20% on the Waimalu Viaduct
- Majority of areas needing repair are in the innermost lanes along the center median barrier in both directions

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Highways Division
Freeway Management System (FMS)



SCOPE
 Goals for HDOT's FMS program:
 1. Implement an interagency incident management program
 2. Provide advanced traveler information

COST
 \$ 200 M

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Highways Division
Freeway Service Patrol (FSP) ((841-HELP))



SCOPE
 To provide minor assistance to motorists on the freeway and to assist emergency responders in clearing freeway incidents.

COST
 \$9.0M for 3 Years

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GoAkamai Advanced Traveler Information System
www.goakamai.org



- Launched August 2010
- Provides 24/7 traffic congestion info for Oahu freeways
- Uses 73 doppler radar stations for real-time traffic flow data
- Links over 200 traffic cameras for on-site snapshots
- Connects to bus transit, carpooling, roadwork, Freeway Service Patrol & other resources

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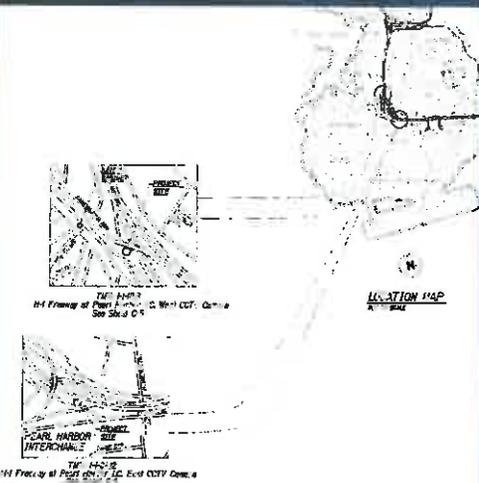
GoAkamai Advanced Traveler Information System
Travel Time System




- 511 automated phone system
- Highway electronic messageboards
- Gives motorists real-time traffic info via phone, internet & signs
- Info will also be used by TV newscasts & radio traffic reports
- Anticipated target completion for 511 system is September 2013.

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Highways Division
Freeway Management System, Phase 1C: Installation of CCTV & Communication Infrastructure



LOCATION MAP

PEARL HARBOR INTERCHANGE

1/4" Scale of Pearl Harbor IC, East CCTV Cam's

SCOPE
 Installation of two pole mounted traffic cameras at the Pearl Harbor IC along with power and communication infrastructure.

COST
 \$1.3 Million



Example Pole Mounted Traffic Camera at Pearl Harbor

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Highways Division
Freeway Management System, H-1 Core Variable Message Signs and Traffic Cameras



Example VMS at H-1 Core

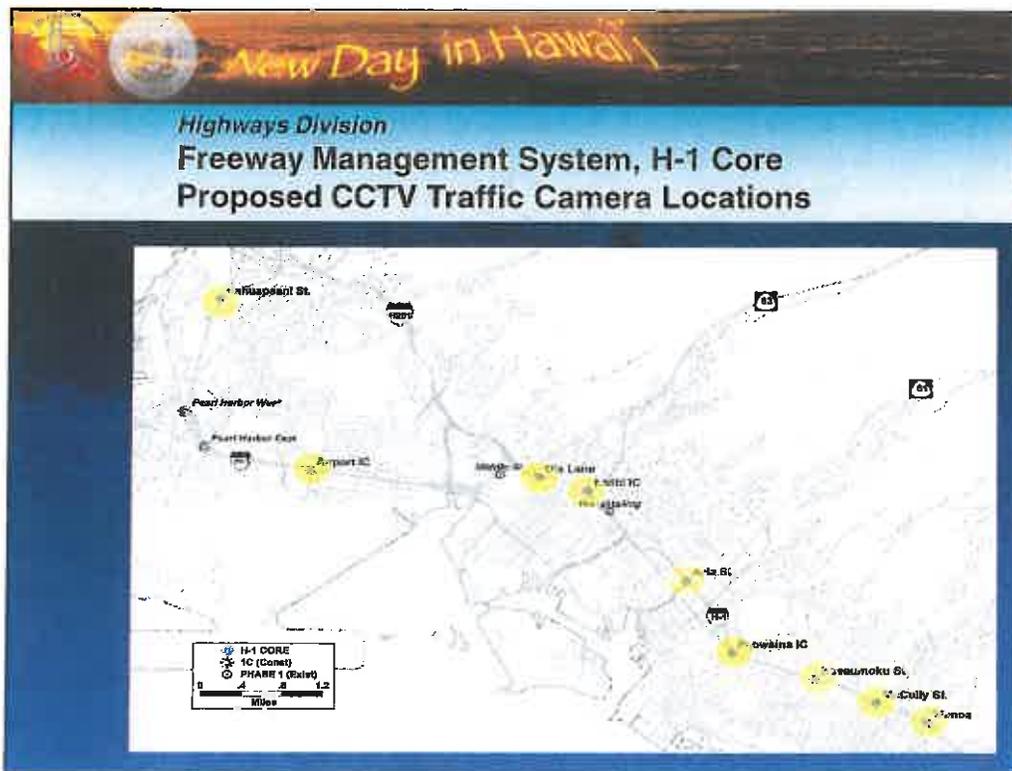
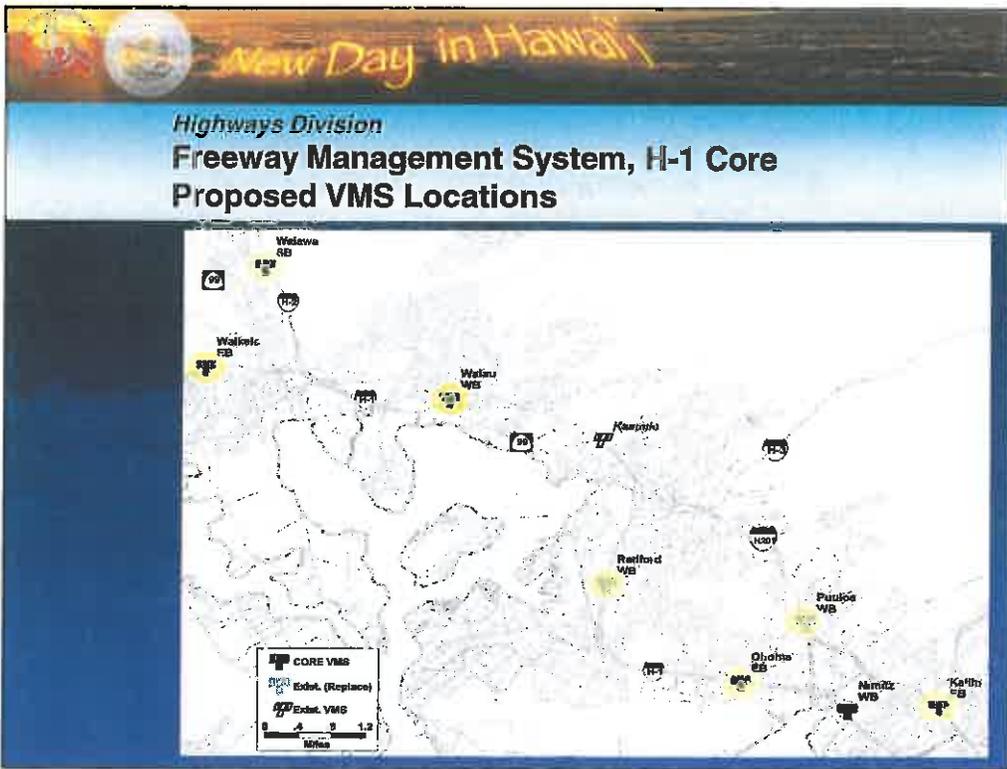
SCOPE
 Installation of additional Variable Message Signs and CCTV Traffic Cameras.

EST. COST
 \$14-15 Million*

*Complete funding not available. May have to defer some of the work to later phases.



Example Pole Mounted Traffic Camera at H-1 Core



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Highways Division
**Interstate Routes H-1, H-2 & H201
 Destination Sign Upgrades, Replacements**

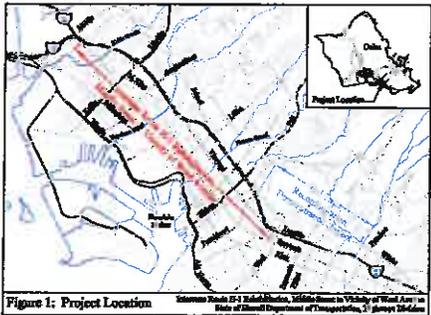


SCOPE
 Replace and/or upgrade existing destination signs & sign support structures on Interstate Routes H-1 & H-2. Phase I in construction. NTP July 12, 2013. Phase I affect H-1 only.

EST. COST
 PH1: \$3.6M
 PH2: \$4.2M
 PH3: \$5.5M

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Highways Division
Interstate Route H-1 Rehabilitation, Middle Street to Vicinity of Ward Avenue



SCOPE
 Rehabilitate pavement, upgrade lighting and restripe H-1.

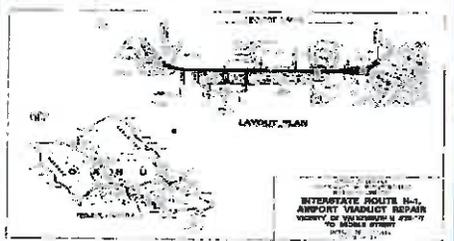
EST. COST
 \$40 Million



Figure 1: Project Location
Interstate Route H-1 Rehabilitation, Middle Street to Vicinity of Ward Avenue
 State of Hawaii Department of Transportation, © January 2014

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Highways Division
Interstate Route H-1, Airport Viaduct Improvements, Valkenburgh Street to Middle Street



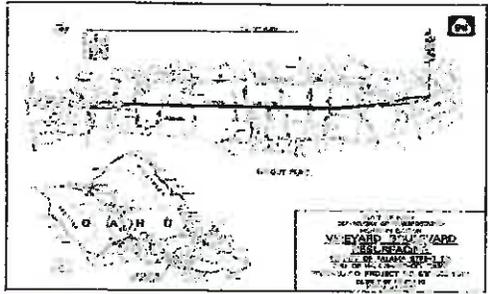
SCOPE
 Repair the concrete deck

EST. COST
 \$26 Million



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Vineyard Boulevard Resurfacing
Palama Street to H-1 On-and-Off Ramp



SCOPE
 Replace the existing pavement at Vineyard Boulevard.

EST. COST
 \$8.4 Million

EST. SCHEDULE
 Construction Summer 2013



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Highways Division
Kalaniana'ole Highway Lighting improvements



SCOPE
 Upgrading the existing light fixtures to a flat lens lighting system, in order to comply with Section 7 regulations to save shearwater birds.

EST. COST
 \$210,000.00




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Highways Division
Farrington Highway, Intersection Improvements, Haleakala Avenue and Nanakuli Avenue



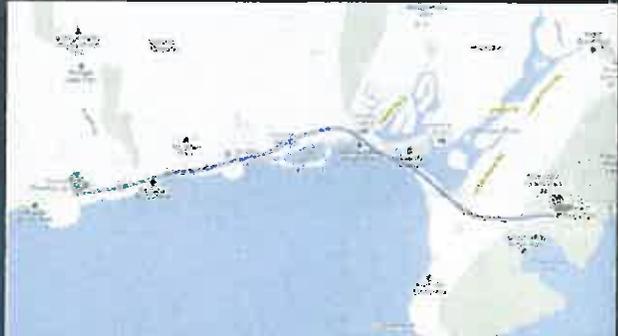
SCOPE
 Install auxiliary left-turn lanes from Farrington Highway into Haleakala Avenue and Nanakuli Avenue. Includes installation of sidewalks, relocating utilities, traffic signals, railroad tracks, a bike lane and highway lighting.

EST. COST
 \$14.2 Million



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**Kaianānaoie Highway Resurfacing
West Hind Drive to Vicinity of Hanauma Bay Road**



SCOPE
Resurfacing, guardrail, signing, landscaping and striping

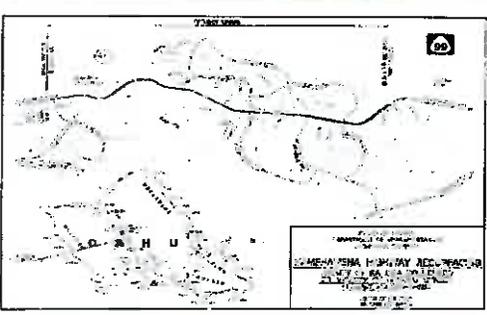
EST. COST
\$15 Million

EST ADVERTISED/BID SCHEDULE
OCTOBER 2013



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**Highways Division
Kamehameha Highway Resurfacing
Waihou Street to Ka Uka Boulevard**



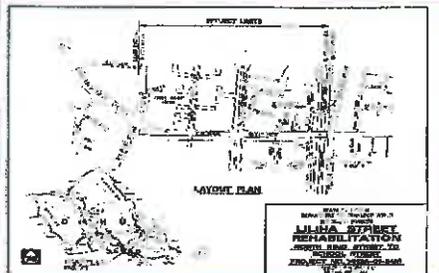
SCOPE
Resurface 13.0 lane-miles of Kamehameha Highway and install new guardrails.

EST. COST
\$20.0 Million



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Highways Division
Liliha Street Rehabilitation, North King Street to School Street



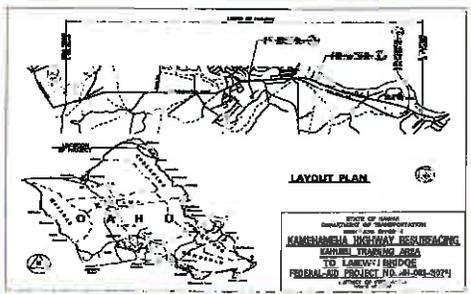
SCOPE
 Rehabilitate the existing AC pavement.

EST. COST
 \$4 Million



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Highways Division
Kamehameha Highway Resurfacing
Kahuku Training Area to Laiewai Bridge



SCOPE
 Cold planing; resurfacing; reconstruction of weakened pavement areas; upgrading existing guardrails, end treatments, bridge rails and transitions; installation of guardrails, concrete bus pads, milled centerline and shoulder rumble strips, pavement markings and signage.

EST. COST
 \$6.5 Million



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Highways Division
Kapolei Interchange, Phase II



SCOPE
 Construct the Wakea Street overpass and on- and off-ramps.

EST. COST
 \$48 Million



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Highways Division
Guardrail and Shoulder Improvements at Various Locations, Phase 1



SCOPE
 Upgrade guardrail end treatments and shoulders to meet current State and Federal safety standards.

EST. COST
 \$2.142 Million



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Highways Division
Kalanianaʻole Highway Improvements, Olomana Golf Course to Waimanalo Beach Park, Phase I, Olomana Golf Course to Poalima Street




SCOPE
 Traffic improvements, pavement reconstruction, sidewalk reconstruction, drainage improvements, lighting, utility relocation, traffic signal improvements.

EST. COST
 \$4M

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Highways Division
Farrington Highway, Bridge Replacement, Makaha Bridges Nos. 3 & 3A

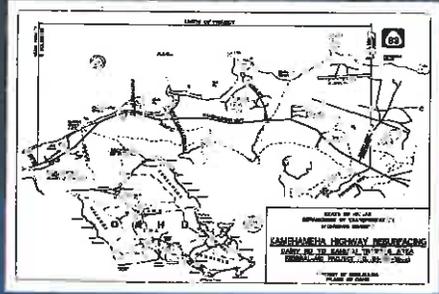



SCOPE
 Replacing the existing wooden bridges with new bridge structures that meet current State and Federal Standards.

EST. COST
 \$20.1 Million

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Highways Division
Kamehameha Highway Resurfacing
Dairy Road to Kahuku Training Area



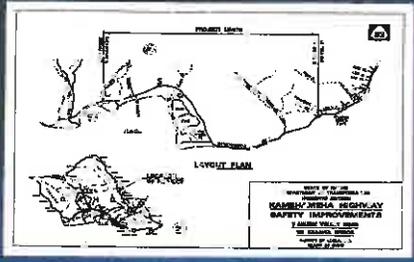
SCOPE
Cold planing; resurfacing; reconstruction of weakened pavement areas; installation of concrete bus pads; installation of new guardrail; upgrading existing guardrail, end treatments, bridge rails, and transitions; reconstruction of a culvert headwall; installation of rumble strips; pavement markings; and signage.

EST. COST
\$6 Million



New Day in Hawaii

Highways Division
Kamehameha Highway Safety Improvements
Waikane Valley Road to Kaaawa Bridge



SCOPE
Installation of milled centerline and shoulder rumble strips; drainage improvements; installation of guardrail and end treatment; resetting existing guardrail; pavement markings; and signage.

EST. COST
\$1.35 Million



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Highways Division
Farrington Highway, Replacement of Maipalaoa Bridge
FAP NO. BR-093-1(21)



Maipalaoa Bridge

SCOPE
 Replace the existing bridge with a new concrete bridge to meet current seismic and vehicle load standards.

EST. COST \$14.9 Million
EST. SCHEDULE
 Advertise: October 2014



New Day in Hawaii

Highways Division
Kamehameha Highway Widening –
Lanikuhana Avenue to Ka Uka Boulevard



SCOPE
 Complete federal and state environmental requirements to improve the capacity on Kamehameha Hwy. between Lanikuhana Ave. and Ka Uka Blvd. The alternatives being considered include additional lanes from 2 - 3 lanes to 4 lanes. This project will also consider replacing or modifying the existing Roosevelt (Kipapa Gulch) bridge.

EST. COST
 \$200 - \$400 Million




New Day in Hawaii

Highways Division
Kahekili Highway Re-Evaluation



SCOPE
 Re-evaluation of the 1990 Final Environmental Impact Statement (EIS) is to assess and determine whether a new EIS is federally required for the uncompleted work of Phase I - Widening Kahekili Hwy. from Haiku Rd. to Kamehameha Hwy. and Phase II - Interchange at Kahekili and Likelike Hwys. The re-evaluation considers the adequacy of the 1990 Final EIS by assessing changes in environmental requirements, project surroundings, and impacts of the project.

EST. CONSTRUCTION COST
 Phase I - \$40 Million
 Phase II - \$60 Million



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Highways Division
Interstate Route H-1 Corridor Study



SCOPE
 Assess the existing congestion and future capacity needs for the 27 miles on the Interstate Route H-1, and to develop projects. The study will include major parallel routes and interchanges.



Highway Maintenance
CONTACT INFORMATION

- **Report Potholes, Graffiti, Hazards**
 - Highways Division Maintenance Hotline: 831-6714
- **Questions & Concerns**
 - DOT Community Affairs Office: 587-2160
 - E-mail: dotpao@hawaii.gov

