



## Memorandum

To: All Interested Parties

From: Brian Gibson, Executive Director

Date: August 3, 2010

### FY 2011 Overall Work Program (OWP) Proposed Revision #2

The Oahu Metropolitan Planning Organization (OahuMPO) has submitted a competitive grant application to the Federal Highway Administration (FHWA) to conduct a planning study that will assess the vulnerability of key transportation assets to the impacts of climate change. Grant awards are expected to be announced on Friday, September 3, 2010. If OahuMPO is successfully awarded a grant (we asked for \$82,000) the FY 2011 Overall Work Program (OWP) will need to be revised to reflect and account for this new work.

We are asking for input on draft Revision #2 to the FY 2011 OWP in advance of the grant award announcements in order to provide adequate time to reflect and comment on the potential change. The terms of the grant require that the funds be expended in short order, and there simply will not be enough time following the grant announcement for a full review period. Obviously, if OahuMPO is not awarded a grant, no revision to the OWP will be necessary.

Enclosed is a proposed planning study to be added to the FY 2011 OWP. Many local and state departments and agencies will be involved in the effort, which is not fully reflected on the OWP form. If you would like additional detail regarding the scope of the study, a copy of the grant application can be provided upon request to the OahuMPO office.

What is also not reflected in the OWP revision form are the changes that would occur to existing work elements should this new project be approved for inclusion in the OWP. Staff time from existing tasks would need to be reprogrammed to the new work element as follows:

- 217 hours (5.8%) would be deleted from Work Element (WE) 301.01-11, *Program Support and Administration*, which accounts for general administration tasks.
- 150 hours (28%) would be deleted from WE 201.11-11, *Federal Planning Requirements*, which accounts for work that is performed to ensure that OahuMPO remains compliant with federal planning regulations. OahuMPO had originally anticipated that a new Surface Transportation Authorization Act would be approved in 2010, however that now appears unlikely and so a reduction in hours can be made without jeopardizing our compliance.

- 190 hours (58%) would be deleted from WE 301.02-11, Planning Resources and Support for Other Agencies, which accounts for the continuous and coordinating relationships that OahuMPO maintains with other agencies and departments that are not one of our primary partners (e.g., the City and County of Honolulu Department of Transportation Services and the Hawaii Department of Transportation). Given the breadth of the proposed new work element and the number of other agencies that would be involved, it will serve partly as a substitute for this kind of activity.
- 43 hours (6%) would be deleted from WE 301.03-11, *Overall Work Program*, which accounts for the development of the OWP. This small reduction in hours is manageable without a serious, detrimental effect on the OWP development process.

Please provide your comments to OahuMPO **no later than Wednesday, September 1, 2010** to:

Oahu Metropolitan Planning Organization

707 Richards Street, Suite 200

Honolulu, Hawaii 96813

Email: [OahuMPO@OahuMPO.org](mailto:OahuMPO@OahuMPO.org)

Fax: (808) 587-2018

OahuMPO appreciates you taking time to review and comment on this material. Please periodically check our [website](#) for any updates to draft Revision #2 to the FY 2011 OWP. Should you have any questions, please contact Marian Yasuda at 587-2015.

Enclosure

Oahu Metropolitan Planning Organization Overall Work Program  
**Proposed Planning Study or Project**  
**Fiscal Year 2011**

<b>I. Identification</b>			
WE Number	202.08-11	Time Period	Sept. 6, 2010 – August 31, 2011
WE Name	Transportation Asset Climate Change Vulnerability Assessment		
Agency	OahuMPO	Phone Number	587-2015

<b>II. Objectives</b>
To assess the relative vulnerability of key transportation assets to the impacts of climate change

<b>III. Planning Study or Project Information</b>	
A.	<p><b>Work Products.</b></p> <ol style="list-style-type: none"> <li>1. Compilation of geographic information and characteristics (age, condition, etc.) of important Oahu transportation assets</li> <li>2. Consensus among the various transportation agencies as to which climate change scenario(s) to use for planning purposes</li> <li>3. A written report detailing the vulnerability of key transportation assets to various climate stressors (sea level, temperature, rainfall, etc.) and the resulting impacts to the transportation network and society in general</li> </ol>

B.	<p><b>Description.</b></p> <p>Working with local, state, and federal partners, OahuMPO staff will collect and compile existing data sets of transportation infrastructure, noting any important gaps in that data. Where gaps do exist, staff will search for data to fill the gaps, or collect data first hand as necessary.</p> <p>Climate experts from the University of Hawaii's Center for Island Climate Adaptation and Policy (ICAP) will also coordinate with local, state, and federal transportation agencies to discuss with them the likelihood and magnitude of climate change specific to Hawaii and the potential general impacts those changes may have on transportation assets.</p> <p>A consultant will be retained to assess and analyze the potential specific impacts, on an individual asset basis, of climate change on both the transportation system and society in general. Using a list of prioritized assets, the consultant will complete this analysis for as many assets as the budget allows.</p>
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C.	<p><b>Project Justification.</b></p> <p>The first goal of the ORTP 2030 is to "Develop and maintain Oahu's islandwide transportation system to ensure efficient, safe, convenient and economical movement of people and goods." The possible impacts of climate change, especially sea level rise and likelihood of increased severe storm intensity, have the potential to cause a significant amount of damage to Oahu's existing transportation network and cause significant disruption in network connectivity, integrity, and efficiency. Assessing the potential impacts now will give planners, engineers, and policy-makers more time to plan, budget, and program for adaptation strategies, which may include relocating assets or hardening assets in place against the impacts of climate change.</p>
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D.	<p><b>Previous or Ongoing Work Related to Proposed Planning Study or Project.</b></p> <p>This project builds upon a significant amount of research and work that has been occurring regarding the potential impacts of climate change and the associated climate stressors. ICAP has already completed a briefing paper titled <i>Hawaii's Changing Climate</i>, and is currently working on <i>The Effects of Climate Change on Hawaii's Oceans &amp; Coastal Resources</i>, expected to be published in the fall of 2010. This latter document could be a valuable resource for this project.</p> <p>In addition, ICAP and Hawaii's Ocean Resources Management Plan Working Group have developed <i>A Framework for Climate Change Adaptation in Hawaii</i>, which calls for the development of vulnerability and risk assessments of prioritized planning areas. Also, the Climate Change Task Force within the Office of Planning (established by Legislative Act 20) has been charged with estimating the impacts and costs of climate change, and making recommendations on measures to address the effects of climate change.</p> <p>This project is consistent with many of these climate change initiatives currently underway, and will include input and guidance from the agencies involved in those initiatives.</p>
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#### IV. Work Element Tasks and Schedule

List all the expected tasks and expected completion dates for one project year (State fiscal year). This must be tied to the written description provided in III.B above.

Task #	Task Description	Start Date (Mo/Yr)	Expected Completion Date (Mo/Yr)	Cost
1	Form a Project Oversight Committee (POC), comprised of all the agencies and departments involved in or impacted by climate change and transportation, to guide the development of the project	09/2010	08/2011	\$4,709
2	Identify and compile climate and transportation asset data resources	10/2010	12/2010	\$5,651
3	Coordinate with FHWA in holding a project kick-off workshop to review existing data, identify gaps in the data, prioritize transportation assets, identify the likelihood and magnitude of climate change events, and integrate the data to determine risks	11/2010	01/2011	\$3,767
4	Develop an RFP, review proposals, and select a consultant to conduct the vulnerability and risk assessment	10/2010	01/2011	\$4,709
5	Work with the consultant and the POC as the risk assessment is completed	02/2011	06/2011	\$4,709
6	See public input and feedback at key points in the project development	09/2010	06/2011	\$4,709
<b>TOTAL WORK ELEMENT COST</b>				<b>\$28,254</b>

**V. Work Element Budget**

A. Staff Labor Expenditures

Task #	Position/Agency	LABOR			Total	FUNDING SOURCE		
		Hrs	\$/Hr	Additive		Federal		Non-Federal
				____%		FHWA	FTA	
<b>1-6</b>	Planner/OahuMPO	600	47.09	0	\$28,254	\$5,425	\$17,178	\$5,651
<b>TOTAL LABOR EXPENDITURES</b>								

B. Non-Labor Expenditures (excluding contract services)

Task #	Description	Total	FUNDING SOURCE		
			Federal		Non-Federal
			FHWA	FTA	
<b>1-6</b>	OahuMPO Overhead	\$4,980	\$956	\$3,028	\$996
<b>TOTAL NON-LABOR EXPENDITURES</b>					

C. Consultant Services & Scope of Work

Task #	Description	Total	FUNDING SOURCE		
			Federal		Non-Federal
			FHWA	FTA	
<b>5-6</b>	Consultant will perform the vulnerability assessment as defined in Task 5, and participate in the second public input meeting	\$107,000	\$82,000		\$25,000
<b>TOTAL CONTRACT SERVICE EXPENDITURES</b>					

Proposals utilizing consulting services must include a high-level scope of work that includes the work products expected, contract amount, and tentative project schedule.

**VI. Overall Budget**

Provide the total project budget for each State fiscal year (if multiple fiscal years) in which the proposed activity is to take place. Highlight **in bold** the current fiscal year.

FY		Total	FUNDING SOURCE		
			Federal		Non-Federal
			FHWA	FTA	
<b>2011</b>	<b>Current Fiscal Year</b>	<b>\$140,234</b>	<b>\$88,381</b>	<b>\$20,206</b>	<b>\$31,647</b>
<b>TOTAL WORK ELEMENT COST</b>					

**VII. Disadvantaged Business Enterprise Goal**

Provide the total estimated DBE Goal for this project (applies only if consulting services are part of this request): 3%

Race conscious:

Race neutral: X

Prepared by: Brian Gibson

Date: 30 July 2010

Approved by: Brian Gibson

Date: 30 July 2010