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COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
200 SOUTH HIGH STREET, ROOM 434
WAILUKU, MAUI, HAWAII 96793



April 18, 2019

Ms. Michele M. Yoshimura *Miy*
Budget Director, County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

Honorable Michael P. Victorino
Mayor, County of Maui
200 South High Street
Wailuku, Maui, Hawaii 96793

APPROVED FOR TRANSMITTAL

Michael P. Victorino 4/19/19
Mayor Date

For Transmittal to:

Honorable Keani Rawlins-Fernandez, Chair
Economic Development and Budget Committee
Maui County Council
200 South High Street
Wailuku, Maui, Hawaii 96793

Dear Chair Rawlins-Fernandez:

SUBJECT: REQUESTS/QUESTIONS FROM THE APRIL 10, 11, AND 12, 2019 MEETINGS (PW-11) (EDB-1)

The Department of Public Works responds to your letter dated April 15, 2019, as follows:

1. *Regarding the estimate of lane miles estimated to be repaved or treated in FY 2020 through FY 2024, as described in item #3 in your letter dated April 5, 2019 (PW-1):*
 - a. *Is repaving Makawao Avenue from Haleakala Highway to Makani Road included in the estimate for the Makawao-Pukalani-Kula Community Plan Area?*

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No. Makawao Avenue qualifies for Federal Aid, so it is not considered for use of CIP funds.

- b. *What is the estimated cost of repaving Makawao Avenue from Haleakala Highway to Makani Road?*

Although the request is for an estimated cost from Haleakala Highway to Makani Road, the section of Makawao Avenue near Baldwin Avenue is in much worse condition and it is highly suggested to reconstruct the entire route from Haleakala Highway to Piihola Road. Therefore, two estimates are provided below; the first is to Makani Road (not suggested) and the second is to Piihola Road (preferred). Additionally, the upcoming Makawao Avenue and Haleakala Highway Intersection Improvements include reconstruction of Makawao Avenue from Haleakala Highway to Apana Road. Therefore, this section of roadway was not considered. Note that Makawao Avenue from Haleakala Highway to Piihola Road is severely deteriorated and requires reconstruction, which is reflected in the estimates below.

Reconstruct Makawao Avenue from Apana Road to Makani Road –
Approximately \$2.5 Million.

Reconstruct Makawao Avenue from Apana Road to Piihola Road –
Approximately \$5.2 Million.

- c. *Would this project be eligible for federal funding?*

Yes.

- d. *When could construction begin on this project?*

The earliest construction can begin is in the summer of 2022 to reconstruct Makawao Avenue from Apana Road to Piihola Road with Federal Funds. Although not recommended, construction can start in the summer of 2020 to reconstruct Makawao Avenue from Apana Road to Makani Road with CIP funds only.

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- e. *Would you be able to forward this request to the Maui Metropolitan Planning Organization to be considered for inclusion in the State Transportation Improvement Program? (MM)*

Yes.

2. *Regarding CBS-4597, Haiku Road Guardrail and Shoulder Improvements:*

- a. *In your letter dated April 8, 2019 (PW-3), you noted that the design fees will exceed the FY 2019 funds of \$300,000, and an additional \$200,000 will be required. Please explain why the design fees are have nearly doubled.*

The original estimate for design fees included installation of one guardrail and the repair of two guardrails on Haiku Road. Because these guardrails are in locations with steep drop-offs that have signs of erosion, it was anticipated that the slopes would need to be stabilized as part of this project. However, during the project assessment with the design engineers, it was determined that the geotechnical analysis and design to stabilize the slopes would be more involved than originally anticipated.

- b. *How much repaving of Haiku Road will be included in this project?*

The project scope of work does not include repaving of Haiku Road.

- c. *Will State or Federal funds be used for this project?*

This portion of Haiku Road does not qualify for State or Federal funding.

- d. *Has any of the \$300,000 appropriation from FY 2019 been expended or encumbered? If so, please elaborate. (MM)*

A contract to hire a design consultant has been requested. No funds have been expended or encumbered.

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3. *What is the current condition of the Kahana Nui Basin? Please describe what the Department has done to maintain and repair the basin, including costs incurred. (AL)*

In 2017, the Department hired a consultant to conduct drone surveys of four County-maintained basins in West Maui. Through the use of orthomosaic aerial imagery and 3D modeling, it was determined that the Kahana Nui Basin has approximately 31,400 cubic yards of sediment built-up since it was originally constructed. The cost to evaluate the four basins was \$16,000, paid through Purchase Order No. 354071.

In 2018, the West Maui Soil & Water Conservation District (WMSWCD) of the Natural Resources Conservation Service received a grant from the National Fish and Wildlife Foundation, a private conservation group established by Congress in 1984. The County Department of Public Works is an active participant in the WMSWCD, and is assisting with the coordination of the project. The WMSWCD will use this \$199,760 grant to contract the removal of about 4,400 cubic yards of the estimated 31,400 cubic yards of silt material in the basin. Although a fraction of the total estimated material, the focus is to expose a 1984 modification to the dam consisting of a hydraulically operated outlet valve which is not functioning and covered with silt.

Once this valve is exposed, the Department has developed a small in-house project to repair the intake structure that has been buried for decades. The rehabilitated structure is anticipated to improve water quality and allow the controlled release of clarified water. Department staff have been in communication with the Department of Land and Natural Resources, Dam Safety Program, and is awaiting a determination on whether the work will require a dam safety permit and trigger other environmental requirements. The preliminary design and submittal was completed by in-house engineering staff.

4. *Regarding CBS-1036, Countywide Bikeway Improvements, please provide a breakdown for the planned use of funds. (AL)*

The requested appropriation of \$50,000 is intended to fund bicycle-related requests received throughout the fiscal year. Funds remaining by May, 2020 will be used to fund low-cost improvements as identified in the 2003 Bike Plan Hawaii or coordinated with the Maui Bicycling League.

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5. *Relating to CBS-2772 Safe Routes to School – State Appropriation (page 800, Program Budget), do crosswalk improvements near private schools qualify for this funding? Pedestrian safety measures are needed at the crosswalks on Napilihau Street, which are in close proximity to Maui Preparatory Academy, a private school. (TP)*

Funds under this item may be used to fund improvements near private schools as long as improvements are constructed in County-owned rights-of-way.

6. *Relating to CBS-1024 Countywide Safety Improvements (pages 791-792), Program Budget), the Makawao Community Association has indicated that flashing beacons are needed at the following locations: a) Makawao Avenue and Makani Road, b) Ranch Acres, and c) Maha Road and Makawao Avenue. Could these improvements be added to this project, and would the Department need to study this vicinity to determine which measures would be most appropriate to address the safety concerns? (YS)*

The identified locations are currently on the Department's list of locations to be evaluated for pedestrian-activated flashing beacons. Should the data collected support the installation, Countywide Safety or funds under CBS-2772 will be utilized to install the devices.

7. *Relating to CBS-5518 Emergency Management Office Renovation (Program Budget, pages 834-835), will the renovation actually provide more room, or should a new location be considered to provide the necessary additional space? (TK)*

The intent of the Emergency Management Office Renovation is to make the Emergency Operation Center (EOC) more functional, especially during activations where there may be between 60 to 80 of our partners from various local, State and Federal agencies in the EOC. The large number of partners during an activation has overtaxed our air conditioning system, as well as our electrical circuits. The renovation will primarily address these issues and it will not significantly increase the size of the EOC. Mayor Victorino has indicated that the EOC should be housed in the County building and so there are no plans to locate another location for Maui Emergency Management Agency (MEMA) and the EOC.

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8. *Relating to your correspondence dated April 5, 2019 in response to PW-1:*

a. *Please explain why West Maui is not included.*

The table submitted to respond to PW-1 is a sampling of pavement preservation work performed in-house by the Department within a short timeframe. Slurry operations have touched every district (Wailuku, Makawao, Lahaina, Molokai, and Lanai), with the exception of Hana. A slurry project is planned this summer on about 2.5 miles of Hana Highway from Hana Town to the South intersection with Haneoo Road. Engineering Division will resurface 1.1 miles from this intersection heading south (towards Kaupo).

b. *Is this an omission correlated to the broken slurry machine?*

The latest West Maui slurry project in October, 2018 put down material on about half of the Napilihau Subdivision. The remaining portion of the subdivision is currently being prepared for the application of slurry in early 2020. In June, 2017, the Department applied slurry on Napilihau Street, and in July, 2017, on several streets in the Wahikuli Subdivision.

A critical component of the micropaver, also known as the "slurry machine" was vandalized in 2018. This delayed slurry application operations for approximately three months. Unfortunately, vandalism of our equipment, especially on County roads is an increasing trend. The Division has been proactively adding security measures at our baseyards (fences, motion cameras, protected locks on gas tanks, etc.). In addition, rather than using the right-of-way to stage equipment, the Division regularly moves equipment from job sites daily to prevent vandalism. Please note that the slurry machine has many moving parts and, therefore, requires more maintenance than typical support vehicles. There is a real need for redundancy in our slurry operations, which is one of the reasons the Division is requesting an additional slurry truck in the FY 2020 Budget. A new slurry truck will increase the lane miles we can apply each day and will provide backup when equipment is down for servicing or damage.

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Please contact me at Ext. 7845 if additional information is requested.

Sincerely,



ROWENA M. DAGDAG-ANDAYA
Acting Director of Public Works

RMDA:jso
Attachment
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04.18.19