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Mayor

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Director

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COUNTY OF MAUI
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793

April 9, 2018

RECEIVED
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OFFICE OF THE
COUNTY COUNCIL

Mr. Sananda K. Baz 
Budget Director, County of Maui
200 South High Street
Wailuku, Hawaii 96793

Honorable Alan M. Arakawa
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL


Mayor Date 4/10/18

For Transmittal to:

Honorable Riki Hokama, Chair
Budget and Finance Committee
Maui County Council
200 South High Street
Wailuku, Hawaii 96793

Dear Chair Hokama:

SUBJECT: FISCAL YEAR ("FY") 2019 BUDGET (PW-1) (BF-1)

As requested in your April 4, 2018 letter, we offer the following responses to your questions:

1. *As it relates to CBS-1027, Countywide Drainage Improvements (page 762 of the Program Budget):*
 - a. *Provide a list of proposed drainage improvement projects, by district.*

This fund is used for emergency projects such as stream/gulch repair, sinkholes, design/construction contract supplementation relating to drainage, and small drainage repair projects under \$100,000.

If there are any funds left after the rainy season, we will use the remaining funds to repair drainlines in Central Maui.

- b. *The proposed funding source is general obligation bonds. What is the useful life of each improvement project?*

Newly constructed drainage systems have an estimated service life of 50 to 75 years.

2. *As it relates to CBS-1032, Countywide Facility Building Improvements (page 763 of the Program Budget):*

- a. *Provide an estimated cost for each of the proposed improvements for FY 2019.*

Kalana O Maui Bldg Complex Lighting Improvements (\$250,000)
Civil Defense/Akaku Room AC Installation/Upgrade (\$50,000)
Seal Coat/Crack Seal/Restriping of Lower Parking Lots (\$75,000)
Supplement to current building projects and emergency (\$125,000)

- b. *Provide a list of improvements proposed for the parking lots within the Kalana O Maui Building complex.*

Kalana O Maui Bldg Complex Lighting Improvement
Seal Coat/Crack Seal/Restriping of lower parking lots

- c. *Provide a list of projects that may need emergency or supplemental funding.*

Projects that may need supplemental funding include Kalana O Maui Electrical Improvements, Kalana O Maui Bldg Exterior Panel Repair and Waterproofing, Kaohu Street Parking Lot Repair, Kalana O Maui 2nd Floor Deck Repair, Kalana Pakui A/C Improvements, Design/Assessment of Old Courthouse AC Chiller/FCU Upgrade, and other new projects within the Kalana O Maui Bldg complex.

3. *As it relates to CBS-1023, Countywide Road Resurfacing and Pavement Preservation (page 765 of the Program Budget):*

- a. *Provide a list of roads funded for FY 2018, and proposed for FY 2019 and FY 2020, by district.*

Please see the attached resurfacing schedule.

- b. *"Funding may supplement Federal Aid road resurfacing project." If a Federal Aid project is short of funds, why does the Department choose to supplement the project with funds designated for smaller, stand-alone projects instead of seeking a budget amendment to make up the shortfall?*

Due to the tight time constraint imposed upon encumbering Federal funds, we do not have the time to request a budget amendment to secure additional County matching funds. The only option would be to decrease project limits, however, we may be subject to an increase in unit costs if quantities are significantly reduced. Note that we would only be funding the 20% County match needed for the additional cost. If the needed funds are significant, we would request a budget amendment and seek approval from FHWA for additional time to issue the Notice to Proceed.

- c. *Why is the request for FY 2019 \$5,000,000, meanwhile the subsequent years is \$5,500,000?*

We originally requested and can utilize \$5,500,000, however, to help balance the budget we reduced this amount to include other projects.

4. *As it relates to CBS-1024, Countywide Safety Improvements (page 766 of the Program Budget):*

- a. *Provide a list of projects proposed for FY 2019.*

Papalaua Traffic Signal Improvements, Waiale-Kaohu Intersection Evaluation, Accessibility Improvements at Various Locations, Traffic signal controller and detection replacements and upgrades, Roadway Safety Awareness program, and projects that arise in response to concerns and needs that surface during the course of the fiscal year.

- b. *Explain why the Waiale-Kaohu intersection evaluation and improvements is proposed under this Countywide project and not included in CBS-1919, Waiale Road Improvements (Kaohu Street to Waiinu Road) (page 801 of the Program Budget).*

The two projects are very different in scope. CBS-1919 is intended specifically for the design of improvements that will aid pedestrians and bicyclists and is identified as an immediate need. The Waiale-Kaohu intersection evaluation project is intended to evaluate current intersection operations and develop alternatives to alleviate congestion at this location and improvements will likely require a longer time frame.

5. *As it relates to CBS-1031, Countywide Bridge Improvements (page 767 of the Program Budget), provide a list of projects proposed for FY 2019 and associated costs.*

This fund is used for emergency projects, design/construction supplementation and plan review fees.

6. *As it relates to CBS-1035, Countywide Traffic Calming Program (page 768 of the Program Budget):*

- a. *Major roadwork was done on Wailea Alanui Drive. Explain why traffic calming measures were not done at the same time.*

The past project on Wailea Alanui Drive was a Federal-aid project programmed with the limits of Okolani Drive to Wailea Ike Place. The request for traffic calming is on a portion of Wailea Alanui Drive that is outside of the Federal-aid project's limits and was received after the review and approval process for the Federal-aid project.

- b. *Road resurfacing was done on Eha Street. Explain why traffic calming measures were not done at the same time.*

Traffic calming requires an evaluation process of which the request was received after the road resurfacing project. Some lane width reduction was done with the Eha Street improvements, but more calming appears warranted.

c. *What is the Department's practice in installing traffic calming measures?*

Traffic calming for existing roadways is considered whenever a request is received. Traffic calming may be implemented through enforcement, education, and/or engineering improvements. In all cases, traffic calming must go through an evaluation to justify the need, an approval process, and is dependent on available funding.

d. *Why are funds not proposed for Molokai and Lanai for traffic calming measures?*

Countywide traffic calming is intended for use on all Islands of Maui County. The Department will consider traffic calming as requests are received, and as determined to be needed. Locations listed in the Department's FY19 request are specifically for traffic calming and does not preclude the implementation of traffic calming in other locations.

7. *As it relates to CBS-1036 County Bikeway Improvements (page 769 of the Program Budget), provide a list of projects proposed for FY 2019 and associated costs.*

The Department's FY2019 request of \$140,000 is intended to address various improvements, primarily signing and striping, as requested by the Maui Bicycling League and general public.

8. *As it relates to CBS-1037, Countywide Sidewalk Improvements (page 770 of the Program Budget):*

a. *The FY 2019 priorities include walking routes to schools such as Ohukai Road and Kamehameha Avenue. Is the plan to install sidewalks on both sides of the street? Explain.*

The intent is to complete gaps in the existing sidewalk network. On Kamehameha Avenue, the limits of the proposed sidewalk were incorrectly entered and should actually be Lono Avenue to Wakea Avenue. We apologize for the error. In this area, a sidewalk exists on the north side, therefore, the Department's goal is to complete the sidewalk on the south side. On Ohukai, the sidewalk will be installed on one side as the right-of-way allows only one side between Piilani Highway and South Kihei Road.

b. *Would the two proposed projects qualify for Safe Routes to School funds?*

These two projects do not directly serve the needs of area schools, therefore, we find it difficult to justify the use of Safe Routes to School Funds.

9. *As it relates to CBS-2772, Safe Routes to School – State Appropriation (page 771 of the Program Budget):*

a. *Provide the proposed projects for FY 2019.*

Funding will be used to fund projects within the immediate vicinity of schools that encourage walking and bicycling to school. Projects may include improvements to reduce speeding, closing of sidewalk gaps, improvements for bicycle safety, and educational programs. We intend to use FY2019 funds to provide pedestrian safety awareness education, and bicycle route improvements to schools. Funding received through this program fluctuates from year-to-year thus, we are unable to detail projects at this time. Per State requirements, we will encumber the State funds, and have three (3) years to fund the improvements.

- b. *What percentage of the funds will be used for non-infrastructure purposes? Identify the purposes and related cost.*

We typically aim to utilize 10% of the available funds on non-infrastructure purposes such as education, training, and other program needs. This percentage may be adjusted based on current needs.

10. *As it relates to CBS-5022, Countywide Federal Aid Program (page 773 of the Program Budget):*

- a. *Provide a list of Federal Aid projects for FY 2019.*

The County has proposed the following Federal-aid projects in FY2019. Please note that these projects are still undergoing the Maui Metropolitan Planning Organization's review process, therefore, they have not yet been approved for inclusion in the Statewide Transportation Improvement Plan.

- Kaupakalua Road Pavement Reconstruction Phase 2
- Guardrail & Shoulder Improvements, Haliimaile Road
- Papalaua Street & Wainee Street Traffic Signal Upgrade
- Onehee Avenue Pavement Rehabilitation and Kea Street Reconstruction

- b. *If available, provide a draft of the Maui Transportation Improvement Program (TIP).*

A copy of the draft Maui Transportation Improvement Program was obtained from the Maui Metropolitan Planning Organization's Website and attached for your reference.

11. *As it relates to CBS-1046, Koukouai Bridge Rehabilitation (page 776 of the Program Budget):*

- a. *In FY 2017, \$600,000 was appropriated for the assessment and design for the remediation, reconstruction, replacement, or construction of a new bridge. How much of the funding was expended and what was completed?*

A design contract was issued for \$568,000 to Wilson Okamoto Corporation. Notice to Proceed was not issued until recently when we could obtain rights of entry to provide their surveyors access onto adjacent properties. The survey work was recently completed last month, therefore, no funds have been expended yet.

- b. *Is the \$250,000 requested for FY 2019 supplemental funding for design of the bridge? Explain.*

Yes, the initial \$600,000 did not cover all the design fees anticipated for a bridge replacement project. However, the scope of work has since changed to a repair project and the additional funds are no longer required. The FY19 request can be deleted.

12. *As it relates to CBS-3183, Kalepa Revetment and Seawall Repairs (page 778 of the Program Budget):*

a. *In FY 2017, \$500,000 was appropriated for design and permitting for reconstruction of revetment, seawall, and roadway near Kalepa. Approximately 400-foot section of roadway was damaged and undermined by large waves in 2014 during Hurricane Iselle. Were any of the funds expended? If so, explain what was done with the funds. If the funds were not expended, explain why.*

No, the \$500,000 was purposely lapsed. It was determined that this project will be very complicated and will involve obtaining numerous environmental permits and clearances. We believe the majority of the consultant's fees will involve the planning work and we estimate the total fee would exceed \$500,000. Also, many of the permits tend to run concurrently or overlap each other with preliminary design also needed for the planning work. Therefore, we decided it would be best to secure funding to cover the entire scope of planning and design fees to ensure the consultant's work can proceed without interruption.

b. *Is State or Federal assistance available for the project?*

Federal Emergency Management Agency (FEMA) funds were requested, but are not yet obligated. A change in scope of work was requested, submitted and needs to be accepted by FEMA.

13. *As it relates to CBS-5048, South Maui Drainline Repairs (page 780 of the Program Budget), provide a breakdown of \$2,750,000, by project.*

- Kaiwahine Street Drainline Replacement – \$900,000
- Keonekai Drainline Replacement – \$1,400,000
- Wailea Alanui Drainline Repair - \$450,000. Please note that this project was funded through Ordinance No. 4824, Bill No. 20 (2018) amending the Fiscal Year 2018 Budget. The Department does not object to reducing FY19 funding request accordingly to \$2.3 million.

14. *As it relates to CBS-2775, Kaunakakai Drainage System B (page 786 of the Program Budget):*

a. *A total of \$600,000 was appropriated for FY 2016 and FY 2017 for the project. Through December 31, 2017, the Department has expended \$330,810 and encumbered \$262,043. Explain what the expended and encumbered funds are for.*

Funds spent to date have covered the following tasks and approvals:

- Civil engineering design, reports, preparation of construction documents

- Land surveying and mapping
- Archaeological Inventory Survey and DLNR-SHPD approvals
- Soil testing for contaminants
- Biological and water quality surveys, wetland delineation report
- Final Environmental Assessment
- Shoreline Setback Variance
- SMA Use Permit (Molokai Planning Commission)
- USACE jurisdictional determination
- Consultation with affected stakeholders
- Two community meetings and attendance at one public meeting
- Preparation of the Conservation District Use Permit (CDUA)

Remaining tasks include obtaining approval by the BLNR for the CDUA permit and finalizing the construction plans and specifications.

- b. *Provide the scope of work for the \$2,300,000, is the funds for actual construction or only construction documents? Should there be additional funding requests for FY 2020 through FY 2024?*

Construction management and construction funds for an underground 8-foot wide by 3-foot wide high reinforced concrete box culvert, outlet basin, floodwall around County sewer lift station for flood protection, and an earthen berm. Additional funding through FY 2024 is not anticipated.

15. *As it relates to CBS-1211, Molokai Baseyard (page 788 of the Program Budget), explain the request for \$400,000.*

The original project funding approved in FY2017 covered the construction cost of the project and Phase 1 of the Construction Management cost. Construction Management Phase 1, includes oversight of all site work and preconstruction coordination. This funding will be used to cover Phase 2 of the Construction Management which will oversee the construction and inspection of the building/garage.

16. *As it relates to CBS-3189, Central Maui Drainline Repairs (page 791 of the Program Budget) provide a list of proposed projects and related cost.*

This item intended to fund the replacement of drainlines on Wailupe Drive, Analio Street, Lekeona Street, and Hiahia Place. Due to the frequent sinkholes within the Waiehu Heights Subdivision, this work was combined and funded as the Waiehu Drainline Repairs project under Ordinance No. 4800, Bill No. 112 (2017) amending the Fiscal Year 2018 budget. The project has completed design and had a low bid of \$1,599,999.

The Department requests that this item is funded as the County has many aging drainage systems reaching the end of their service life. A new project in the Wailuku Heights Subdivision has been identified for repairs, and the estimated cost is approximately \$800,000.

17. *Could CBS-3189, Central Maui Drainline Repairs (page 791 of the Program Budget) and CBS-4596, Central Maui Drainline Assessment (page 793 of the Program Budget) be combined into one project?*

Yes. Please note that the Central Maui Drainline Assessment will be used to hire a consultant to clean and assess drainline conditions within various Central Maui subdivisions with drainage systems over 30 years old. The Central Maui Drainline Repairs will be allocated for construction of replacement or repairs to these drainage systems.

Are the funds in CBS-4596 needed in order to proceed with CBS-3189?

No, but the assessment and prioritization of projects would help the Department identify problem areas before roadway failure arises.

18. *As it relates to CBS-5050, Iao Stream Bank Stabilization at Millyard (page 796 of the Program Budget):*

- a. *If the County does the design and permitting, is it subject to approval from the U.S. Department of Army Corps of Engineers?*

Yes.

- b. *In the project justification, it indicates that the Corps of Engineers has a project in design which addresses the area. What is the status of the design? Do they have a timeline for the project?*

USACE's project is reevaluating the scope and is not anticipated to begin design until 2024.

- c. *If the bank is severely eroded and existing buildings are at risk of being impacted, why is the construction phase of the project anticipated in FY 2021 and not sooner?*

FY 2021 is a conservative estimate because the County CIP project will require many environmental permits due to its location.

19. *As it relates to CBS-1919, Waiale Road Improvements (Kaohu Street to Waiinu Road):*

- a. *Does the widening of the existing pavement include sidewalks?*

Widening of the existing pavement will include a dedicated area for the pedestrians.

- b. *Will the improvements include crosswalks, flashing lights, and speed humps or tables? Explain.*

Improvements will look at marked crosswalk as it is identified as a current need. This project is not currently proposing enhancements such as flashing lights, speed humps, or speed tables.

Honorable Riki Hokama
April 9, 2018
Page 9

We hope we have satisfactorily answered your questions. If you have any further questions, please call me at extension 7845.

Sincerely,

A handwritten signature in black ink, appearing to read "Goode", written over the printed name below.

DAVID C. GOODE
Director of Public Works

Enclosures
DG (ED18-376)

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
CENTRAL MAUI CIP	18-13 Hukilike Street (Lalo-Dairy) Lono Avenue (Kaahumanu-Kamehameha) Ano Street (Kea-Wakea) Komo Place Kipapa Place Kaimana Place Huali Way	1.75	19- S. Kamehameha Ave (W. Papa-Kuualoha) Halenani Drive Naniloa Drive (Halenani-Oluloa)	1.29	20- Lunalilo Street (all) Liholiho Street (Lunalilo to Lih) (in conjunction w/ DWS project) (deferred to FY 20 by DWS)	2.18
CENTRAL MAUI FAP Construction						
CENTRAL MAUI Highways	Pulehu Road (Hansen-Hookele) Malaihi Rd (Keonaona-Kahekili) (mill/fill & slurry)	1.20 0.40	Waihee Valley Rd	1.00		
TOTAL	Total CW Resurfacing Funds	3.35	Total	2.29	Total	2.18

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
SOUTH MAUI CIP	18-16 South Kihei Road (Kauhaa to Kulanihakoi Bridge)	1.60	19-	1.55	20-	1.13
			Olani Place	0.18	Ohina St. (Keonekai to Aukahi)	0.46
			Kaonoulu Street (S. Kihei Rd. to Keonolio)	0.47	Kahakai Street (Akai St. to end)	0.15
			Alahele Place (S. Kihei to Alaloa)	0.54	Waipahe Street (Kahakai St. to Hoonanea St.)	0.24
			Halelani Place (S. Kihei to end)	0.36	Hoonanea Street (Akai St. to Waipahe St.)	0.13
			Wailana Place		Hooahale Pl. (Kauhale to end)	0.15
			Mahie Place			
SOUTH MAUI FAP Construction						
SOUTH MAUI Highways			Mapu Drive/.Mapu Place (slurry)	1.12		
			Akala Drive (slurry)	1.93		
TOTAL	Total CW Resurfacing Funds	1.60	Total CW Resurfacing Funds	4.60	Total	1.13

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
UPCOUNTRY CIP	18-30 Olinda Road (1060 Olinda Rd - 1636 Olinda Rd) (2153 Olinda Rd to end Cty ROW)	1.60 1.30 0.30	19- Kahoea Place Kulalani Circle Kamila Street Kamila Place Kaweo Place L. Kula Road (Ka to Omaopio) Omaopio Rd (L. Kula to Kula Hwy)	1.96 0.37 0.42 0.37 0.11 0.09 0.40 0.20	20- Waiakoa Road Alae Road	3.00 1.60 1.40
UPCOUNTRY FAP Construction						
UPCOUNTRY Highways	Makani Rd (Makawao Ave-Kalama School) Kaupea (Makani-Ulana) (slurry) Kealakapu (cul-de-sac) Kihapai St (Makani-Nanaina) Pulehu Road (Omaopio-Landfill) (slurry)	0.40 0.35 -- 0.50 7.50	Waiakoa Pl (500 ft from Kekaulike int)	0.30		
TOTAL	Total (FY 2018) CW Resurfacing Funds	10.35	Total (FY 2019) CW Resurfacing Funds	2.26	Total (FY 2020) CW Resurfacing Funds	3.00

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
PAIA/HAIKU CIP	18-32 East Kuiaha Road (Hana Hwy. to Waipuhia Rd.) Haiku Road (East Kuiaha to Peahi Rd.) (vicinity of 1565 Haiku Rd to W.Kuiaha Rd)	3.15 1.45 0.36 1.34	19- Kauhikoa Road (Kaupakalua to Lia)		20- Peahi Road (Address 400 to Kaupakalaua)	0.84
				0.00		
PAIA/HAIKU FAP Construction	STP-0365(001) Kaupakalua Road Phase I (Kokomo Road to East Kuiaha)	4.40	STP-0365(011) Kaupakalua Road Phase II (East Kuiaha to Hana Hwy)	6.20		
PAIA/HAIKU Highways			Nonohe Place Paani Place	0.80 0.40		
TOTAL	Total (FY 2018) CW Resurfacing Funds	7.55	Total (FY 2019) CW Resurfacing Funds	6.20	Total (FY 2020) CW Resurfacing Funds	0.84

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
WEST MAUI CIP	18-29 Wainee (Shaw to Dickenson) Fleming Road	1.55	19- Luakini Street (Lahainaluna-Wainee) Hotel Street Baker Street (Front-Wainee) Wahie Lane	1.40 0.76 0.15 0.35 0.14	20- Huea Street Keao Street Hoapili Street (Huea to end) S. Hakau & N. Hakau Place Liloa Street (Hakau to Kuialua) Kuialua Street (Kumukahi to Liloa) Kapunakea St (mauka)	1.69 0.07 0.22 0.04 0.27 0.40 0.29 0.40
WEST MAUI FAP Construction						
WEST MAUI Highways			Napilihau Subdivision (slurry) (to be determined)	??		
TOTAL	Total CW Resurfacing Funds	1.55	Total CW Resurfacing Funds	1.40	Total CW Resurfacing Funds	1.69

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
HANA CIP	16-21 Keanae Rd (Hana Hwy to 0.40 mi)	0.80	19- Piilani/Hana Road (Ph. I) End State Hwy to MP15 (1.7 mi)	3.50	20- Piilani/Hana Road (Ph. II) MP15-MP17 (2 mi)	4.00
	16-21 Keanae Road Safety Imprvmts (design)					
HANA FAP Construction						
HANA Highways						
TOTAL	Total CW Resurfacing Funds	0.80	Total CW Resurfacing Funds	3.50	Total CW Resurfacing Funds	4.00

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
MOLOKAI CIP	18-15 Kikipua Street Kupa Street Aukuu Street Malamalama Place	1.04 0.81 0.06 0.03 0.14	Used with 2018 funds		20- Kalama Road Pakala Place Analu Road Rudolph Road Nanikai Place Akeu Way Koala Way	1.04 0.31 0.07 0.08 0.25 0.17 0.10 0.06
MOLOKAI FAP Construction						
MOLOKAI Highways						
TOTAL	Total CW Resurfacing Funds	1.04	Total CW Resurfacing Funds	0.00	Total CW Resurfacing Funds	1.04

TENTATIVE
SUBJECT TO CHANGE
DEPENDENT ON FUNDING

4/9/18

Project Type/ District	FY 2018		FY 2019		FY 2020	
	PROJECT	LN MILES	PROJECT	LN MILES	PROJECT	LN MILES
LANAI CIP	18-17 11th St (Lanai - Queens) Palawai St (Queens - 9th) Houston Street Houston Place	1.83 0.54 0.67 0.49 0.13	Used with 2018 funds		20- Jacaranda Street (3rd to 7th) Gay Street (3rd to 7th) 3rd Street (Fraser to Lanai) 6th Street (Fraser to Lanai)	1.34 0.31 0.31 0.36 0.36
LANAI FAP Construction						
LANAI Highways	Pakali St (portion) (slurry)	??				
TOTAL	Total CW Resurfacing Funds	1.83	Total CW Resurfacing Funds	0.00	Total CW Resurfacing Funds	1.34



Draft Maui 2019-2022 TIP

Financially Constrained Draft for Public Review 3/27/18

Maui Metropolitan Planning Organization (Maui MPO) is working to update the 2019-2022 Transportation Improvement Program (TIP). The TIP is a 4-year list of highway, bicycle, pedestrian and transit projects that will be implemented by the State of Hawai'i and County of Maui and funded in part with federal money. Visit www.mauimpo.org for more information.

Federal Highway Administration (FHWA) Funding - Constrained Years 2019-2022				
Public priority *	Project name	Technical program	Year(s)	Federal-aid (x \$1000)
2	Shoreline Protection/Mitigation Program	State Safety	19, 21, 22	10,400
4	Hana Highway Bridge Preservation Program	State System Preservation	19, 21	10,452
5	Kihei North-South Collector Road Phase 1	County Capacity	22	8,817
6	Makawao Ave-Makani Road Improvements	County Enhancement	22	2,102
8	Kaupakalua Road Pavement Reconstruction Phase 2	County System Preservation	19	6,347
9	Central Maui Traffic Signal Upgrades	County Congestion	20	594
10	Pu'unene Avenue Improvements	State Enhancement	19, 20	8,000
11	Guardrail & Shoulder Improvement Program	State Safety	20, 22	4,000
13	Kula Highway Safety Improvements	State Safety	19	810
15	Mahalawa Bridge Replacement	County System Preservation	21	4,800
16	North Kihei Road Safety Improvements	State Safety	22	1,620
17	Wakea Ave. & Kamehameha Ave. Intersection Improvements	County Congestion	22	2,186
18	Kahawaiokapia Bridge Replacement	County System Preservation	20	4,586
19	Waikakoi Bridge Replacement	County System Preservation	22	4,800
21	Old Haleakala Highway Traffic Signal Upgrade @ Pukalani St.	County Safety	20	1,237
22	Honolua Bridge Replacement	State System Preservation	20	4,743
24	Wai'ale Road & Wai'inu Road Intersection Improvements	County Congestion	21	1,832
25	Guardrail & Shoulder Improvements, Hali'imaile Road	County Safety	19	1,225
26	Kahana Nui Bridge Replacement	County System Preservation	20	2,918
27	Papalua Street Traffic Signal Upgrade @ Waine'e Street	County Safety	19	1,470
28	Lower Main Street Resurfacing	County System Preservation	21	2,800
29	Mill St Pavement Reconstruction	County System Preservation	20	3,200
30	Onehe'e Avenue Pavement Rehab. & Kea Street Reconstruction	County System Preservation	19	3,520
31	Kanaloa Avenue & Mahalani Street Resurfacing	County System Preservation	21	3,330
new	South Kihei Road Pavement Reconstruction	County System Preservation	21	2,000

FHWA Funding - Planning Years 2023-24 (No commitment of federal funds)				
Public priority *	Project name	Technical program	Year(s)	Funding (x \$1000)
1	Pa'ia Relief Route	State Capacity	23,24	49,000
3	Honoapi'ilani Highway Realignment - Olowalu to Pali	State Safety	23	500
5	Kihei North-South Collector Phase 1	County Capacity	23	8,000
7	Honoapi'ilani Highway Rockfall Protection	State Safety	24	4,000
14	Lower Honoapi'ilani Road Improvements Phase IV	County System Preservation	23	5,010
23	Lower Honoapi'ilani Road Pavement Rehabilitation	County System Preservation	24	4,081

* Public priority based on Maui MPO public surveys completed in February 2018.

Draft Maui 2019-2022 TIP

Financially Constrained Draft for Public Review 3/27/18

Project name	Technical program	Year(s)	Federal-aid (x \$1000)
Other State FHWA Projects			
Bridge and Pavement Improvement Program	Special Maintenance Prog.	19-22	TBD**
National Recreational Trails Program	State Enhancement	19-22	1,436
Transportation Alternatives Program	State Enhancement	19-22	TBD***
Papa Avenue Complete Street Improvements	State Enhancement	19	1,800
Wai'ale Road Complete Street Improvements	State Enhancement	19	1,400

Federal Transit Administration (FTA)			
Bus and Bus Facility (Rural) - FTA 5339	County Transit	19-22	1,433
Bus and Bus Facility (Small Urban) - FTA 5339	County Transit	19-22	1,308
Rural Transportation Program - FTA 5311	County Transit	19-22	2,181
Urbanized Area Program - FTA 5307	County Transit	19-22	8,962
Transportation Assistance for Elderly and Disabled - FTA 5310	County Human Services	19-22	1,129

** State Special Maintenance Program (SMP) funds of approximately \$14.8 million per year for State-owned Maui Bridge and Pavement Improvement Program projects. SMP projects may be eligible for federal funds.

*** The Transportation Alternatives Program (TAP) is a competitive program administered by State DOT to provide federal funding for bicycle and pedestrian enhancements. Counties apply annually. Once awarded funds by State DOT, TAP projects will be listed on the TIP.