



THE CITY OF KEY WEST

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EXECUTIVE SUMMARY

DATE: January 18, 2023

TO: Patti McLauchlin, City Manager

FROM: Kelly M. Crowe, Utilities Director

Cc: Todd Stoughton, Assistant City Manager

SUBJECT: Approving a Task Order, in an Amount not to Exceed \$205,440.00, from Charley Toppino & Sons, for Removal of Fallen Mangroves in the Poinciana Donald Pond; Authorize Necessary Budget Transfers; and Authorize the City Manager to Execute Necessary Documents, Upon Consent of the City Attorney.

Action Statement:

This resolution will approve the task order, in an amount not to exceed \$205,440.00 from Charley Toppino & Sons, for the removal and disposal of fallen mangroves from the Poinciana Donald Pond; authorize necessary budget transfers; and authorize the City Manager to execute any necessary documents consistent with the consent and advice of the City Attorney.

Background:

South Florida Water Management District (SFWMD) permitted the stormwater drainage system that includes Poinciana Donald Pond and Canals, Jose Marti Pond, Riviera and 9th Street Canal, Hawk Missile Restoration Site, and West Salt Ponds. The permit requires routine maintenance to prevent mangrove growth from impacting and obstructing the drainage conveyance system. Trimming and removal of fallen mangroves (non-anchored roots) is an authorized maintenance activity regulated by the SFWMD drainage system permit and should occur on a five-year cycle.

Previous maintenance of the drainage system, performed in 2018 with a task order from Charley Toppino & Son and approved by Resolution 18-034, utilized 210 hours of labor and equipment operation.

Hurricane Irma and Hurricane Ian impacted mangroves in Poinciana Donald Pond, resulting in multiple snags of dead and fallen mangroves which could move into the drainage canal and block flow through the drainage system.

Purpose:

Dead and fallen mangroves in the Poinciana Donald Pond must be removed. Contractor will mobilize equipment and subcontractors to pick up fallen mangroves, trim dead mangroves, and remove the dead mangroves to trucks for transport and disposal.

Key to the Caribbean – Average yearly temperature 77° F.

MEMORANDUM

Pursuant to §403.9326(b) F.S., mangrove trimming and removal must be supervised or conducted by a professional mangrove trimmer. Team assembled for this task order consists of professional mangrove trimmers, certified arborist for supervision of the work, marine vessels, heavy equipment, operators, trucking services, and disposal costs.

Task order will be based on a standard day rate for labor and equipment because quantity and amount of dead and fallen mangroves cannot be determined from site observations. Work is anticipated to not exceed 210 hours, based on previous 2018 drainage system maintenance work.

Strategic Plan:

Key West Strategic Plan 2021 Priority 2: Adaption and Sea Level Rise lists Goal 2: Short-term Critical Projects and Plans. Implement critical projects to mitigate storm and tidal flooding. This project to removal dead and fallen mangroves from will maintain the drainage system for stormwater and tidal flows.

Financial Impact:

Task order proposal provides labor and equipment cost per unit, subcontractor labor cost, markup allowance (5%) on subcontractor work, and mobilization/demobilization (5%) for a calculated standard day rate of \$10,100 per day plus \$6,740 lump sum supervision cost. Yard waste disposal rate is \$51.50 per cubic yard of material plus markup allowance (15%) calculated to be \$59.23 per cubic yard.

Estimated time to complete the mangrove removal project is anticipated to be two weeks (10 days). Mangrove removal project cost is estimated to be \$107,740 plus disposal costs.

Disposal cost for mangroves to be removed may be estimated from aerial photograph. Measured square footage of mangroves to be removed is 23,260 square feet. Square footage of mangroves removed in the 2018 maintenance work on Riviera Canal, 9th Street Canal, and Government Road Canal was 4,700 square feet. Based on comparison of areas for mangrove removal, five times more mangroves will be removed from the Poinciana Donald Pond. Estimated quantity of mangroves to be removed from the Poinciana Donald Pond is 1650 cubic yards. The approximate anticipated cost for disposal is \$97,700.

Resulting approximate cost for removal and disposal of mangroves from the Poinciana Donald Pond, including labor, supervision, mobilization, equipment costs, and disposal, may be estimated to be \$205,440.

Funds for canal system clearing have been budgeted in account 402-3803-538-6500 Construction in Progress, project number ST38032201. Additional funds, if necessary, will be transferred from account 402-3801-538-9900 Other Uses.

Options:

1. Approve the task order, in an amount not to exceed \$205,440.00, from Charley Toppino & Sons, Inc., to employ professional mangrove trimmers to remove and dispose of dead and fallen mangroves in the Poinciana Donald Pond. This option enhances the appearance of the Poinciana Donald Pond and maintains the drainage system, as required by the SFWMD permit.
2. Do not approve the task order from Charley Toppino & Sons, Inc. to remove and dispose of dead and fallen mangroves in the Poinciana Donald Pond. This option may result in mangroves displacing into drainage canals blocking flow and causing flooding to neighboring properties.

Recommendation:

Staff recommends option 1, approve the task order, in an amount not to exceed \$205,440.00, from Charley Toppino & Sons, to remove and dispose of dead and fallen mangroves in Poinciana Donald Pond.