

EXHIBIT "A"
SCOPE OF SERVICES

City of Key West General Traffic Engineering Services
Task Work Order No. 04: Flagler Avenue Corridor - Pedestrian Improvements
November 30, 2020

1.0 BACKGROUND:

The City of Key West (hereafter referred as the City) has recently retimed the signalized intersection of Flagler Avenue and First Street/Bertha Street. One of the preliminary recommendations was to fully actuate the traffic signal to maximize efficiency as well as improve pedestrian safety through installation of pedestrian signalization. In addition, the City has received requests to improve pedestrian signalization at the intersection of Kennedy Boulevard.

2.0 PURPOSE:

The Consultant (Choice Engineering) was retained by the City of Key West to provide Design Services for the implementation of pedestrian signalization improvements at the intersections of Flagler Street and First Street/Bertha Street and Flagler Avenue and Kennedy Boulevard.

The purpose of this Task Work Order is to provide engineering services for the design and production of Contract Documents in the form of Signalization/Roadway Plans at the above intersections. Refer to attachment A for project intersections and existing aerials.

3.0 DESIGN SERVICES SCOPE:

Flagler Avenue at First Street/Bertha Street:

The proposed improvements are to upgrade the existing signal to include full vehicular and pedestrian actuation. The existing intersection is an offset signalized intersection with the existing signals being supported via a span wire system supported on existing utility concrete poles. The intersection currently functions based on pretimed functions. The proposed improvements will require traffic controller modifications and/or potential upgrade of cabinet assembly, inclusion of vehicular detection system (as coordinated with the City), and inclusion of pedestrian signal features, such as MUTCD and ADA compliant pedestrian detectors and pedestrian signal heads (countdown type).

Flagler Avenue at Kennedy Boulevard

The proposed improvements are to upgrade the existing signal to include full pedestrian actuation and provision the spare underground infrastructure to future deployment of vehicular detection. The existing intersection is a signalized intersection with the existing signals being supported via a span wire system supported on existing utility concrete poles. The intersection currently functions based on semi-actuated operations. The proposed improvements will require traffic controller modifications, inclusion of vehicular detection system (as coordinated with the City), and inclusion of pedestrian signal features, such as MUTCD and ADA compliant pedestrian detectors and pedestrian signal heads (countdown type). In addition, redesign of the eastbound left turn lane storage and taper to optimize the transition from mainline through to left turn.

A field review shall be performed to assess the existing conditions such as signalization (cabinet capacity and utilization, pull box infrastructure, etc.) and geometric (curb ramps, storage lengths, sidewalk widths, etc.).

Under this task word order/purchase order, the CONSULTANT will provide the following services:

ROAWAY ANALYSIS AND CONSTRUCTION CONTRACT PLANS

Choice Engineering Consultants will be responsible for the roadway and signalization analysis required for the preparation of signalization plans, along with associated temporary traffic control

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required for the construction of the proposed improvements. This task also includes developing and updating construction cost estimates at the 60%, 90% and final submittal phases.

All CADD efforts required to produce a complete set of constructions plans depicting two (2) affected intersections, one per sheet, as per Florida Greenbook and MUTCD. All efforts required per intersection for establishing the roadway and signal master design files and includes proposed call outs and pay item numbers.

SPECIFICATIONS PACKAGE

Choice Engineering Consultants will prepare a construction specifications package based on latest FDOT Standard Specifications which will be utilized for construction bids.

PERMITS

Choice Engineering Consultants will be responsible for obtaining the necessary permits from Monroe County. Permit fee will be reimbursed to Choice Engineering by the City.

SURVEY, SUE, AND UTILITY COORDINATION

Choice Engineering will be responsible for utility coordination with utility owners.

Survey basemap information is available for Flagler Avenue and First Street/Bertha Street and will be the basis of the design.

Survey basemap for Flagler Avenue at Kennedy Boulevard will be provided to Choice Engineering by the City.

After coordinating with the UAO's, SUE services may be required on a as needed basis based on the number of proposed pedestrian pedestal poles to verify there are no subsurface conflicts with utilities. Any required SUE will be provided by the City.

Submittals:

Three submittals are anticipated: 60%, 90%, and 100%

Services not included: Post Design Services, Public Involvement, and Public Meetings.

4.0 CONSULTANT RESPONSIBILITIES:

The Consultant's responsibilities remain the same as in the Original Agreement. Post Design Services shall be negotiated separately to this task.

5.0 CITY OF KEY WEST RESPONSIBILITIES:

The City is responsible for providing all available survey information, including existing right of way and SUE.

The City is responsible for any public involvement activities, including coordination with adjacent properties within the limits of the intersection.

The City is responsible for any permitting needs that may arise based on the proposed improvements.

General Traffic Engineering Services - Choice Engineering Consultants, Inc.

TWO 4 - Design services for Full Actuation of Flagler Avenue and Bertha Street/First Street

PRICE ESTIMATE - YEAR 2020
City of Key West

ACTIVITY	Hourly Rates	Project Manager	Senior Project Engineer	Project Engineer	Engineer	Engineer Intern	Sr. Designer	Engineering Technician	Secretary/Clerical	Staff Hours Per Activity	Total Fee Per Activity
Design Services											
3. Project General and Project Common Tasks		13		19		0				32	\$ 5,743.22
4. Roadway Analysis		7		29		29				65	\$ 9,436.63
5. Roadway Plans		4		19		19				42	\$ 6,043.46
7. Utilities		2		9		7				18	\$ 2,631.18
21. Signalization Analysis		9		46		37				92	\$ 13,314.86
22. Signalization Plans		2		10		10				22	\$ 3,155.78
Permits		1		4						5	\$ 796.79
TOTALS (Hours)		38	0	136	0	102	0	0	0	276	
TOTALS (Man-hour Costs)		\$ 9,020.82	\$ -	\$ 19,019.60	\$ -	\$ 13,063.50	\$ -	\$ -	\$ -		\$ 41,121.92
										Design Subtotal	\$ 41,121.92

Consultant (Choice) Acknowledgment of Final Fee By:

Carlee Francis, P.E.
Choice Project Manager

11/25/2020
Date

City Review of Fee Estimate By:

Dreg Yelliz
City Manager

Date

TWO 4 - Design services for Full Actuation of Flagler Avenue and Bertha Street/First Street

PRICE ESTIMATE - YEAR 2020

City of Key West

ACTIVITY	Project Manager	Senior Project Engineer	Project Engineer	Engineer	Engineer Intern	Sr. Designer	Engineering Technician	Secretary/Clerical	Staff Hours Per Activity	Total Fee Per Activity
	Hourly Rates: \$ 237.38	\$ 237.38	\$ 139.85	\$ 139.85	\$ 126.25	\$ 122.35	\$ 64.12	\$ 70.19		
Design Services										
3. Project General and Project Common Tasks	13		19		0				32	\$ 5,743.22
4. Roundway Analysis	7		29		29				65	\$ 9,436.63
5. Roundway Plans	4		19		19				42	\$ 6,043.46
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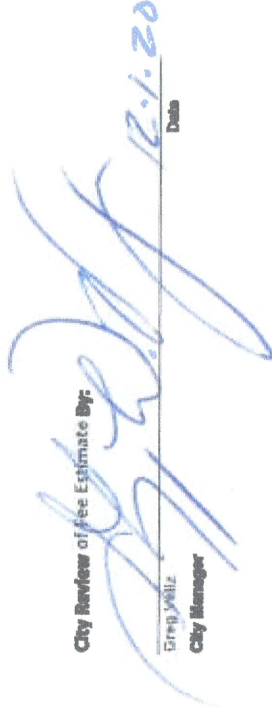
Consultant (Choice) Acknowledgement of Final Fee By:



Carlos Francis, P.E.
Choice Project Manager

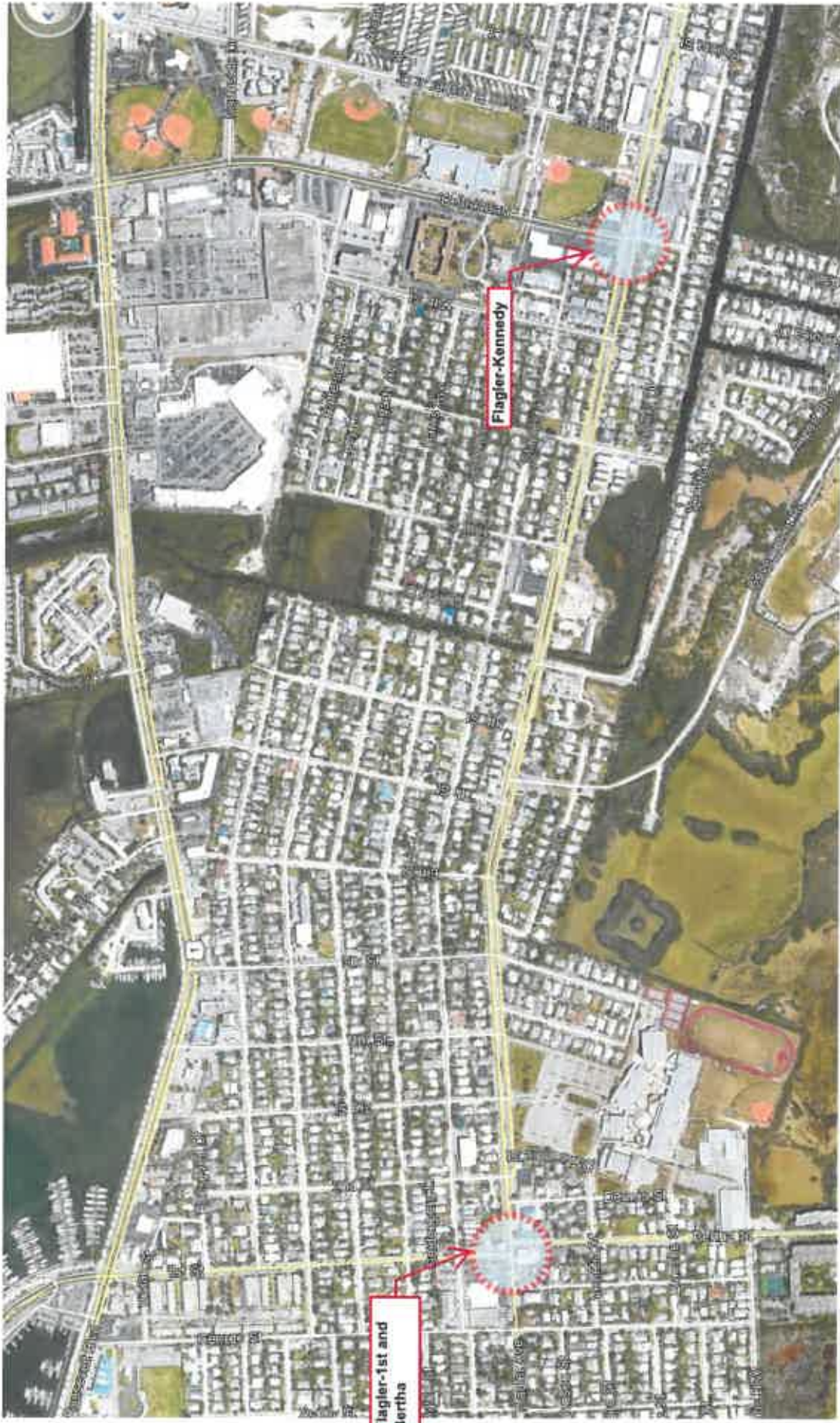
11/25/2020
Date

City Review of Fee Estimate By:



Greg Miller
City Manager

12-1-20
Date



Flagler-Kennedy

Flagler-1st and Bertha

Flagler-1st and Bertha



Flagler-Kennedy Drive

