

**CITY OF DELRAY BEACH
PROJECT NO. 16-500
ENGINEERING DESIGN SERVICES
SW 4TH STREET, SW 6TH STREET, AND SW 7TH AVENUE
LANDSCAPE, IRRIGATION & ALLEYWAY LIGHTING**

CHANGE ORDER NO. 2

DATE: April 27, 2018

I. PROJECT DESCRIPTION

This Change Order No. 2 includes, but is not limited to, providing landscape and irrigation design along SW 4th St and SW 7th Ave; and electrical engineering design for the alleyway lighting, within the SW 4th Street, SW 6th Street and 7th Avenue project (refer to **Figure 1** for project location map).

Landscaping will consist of landscape islands within the side of the road right-of-way with palm and shrub groupings and the associated irrigation from existing potable water sources.

The lighting design will include a review of the existing light levels along the alleyways within the project area, installation of new lighting as required to maintain standard light levels, and replacement of existing fixtures with LED cobra head fixtures. Lighting of the streets within the project were included in the original scope of work.

II. SCOPE OF SERVICES

Phase I – Study and Report Phase

Not Applicable.

Phase II – Preliminary Design Phase

Not Applicable

Phase III – Final Design Phase

4. **Design Drawings:** Consultant shall coordinate with the landscape and electrical subconsultants for the preparation of the construction drawings. Consultant shall provide the design details, plans and grading information for the placement of curbed landscape areas mid-block along SW 4th Street and SW 7th Avenue as approved by the City. Consultant shall include the landscape, irrigation, and site lighting plans, details, technical specifications and cost estimates in the overall project submittals to the City. The 30% submittal for the landscape design shall include a schematic design of the proposed landscaping. The 30% lighting design shall include an FPL coordination memorandum and a preliminary design report section regarding the existing conditions. Hard copy drawings and .pdfs shall be submitted for City review at 60% and 100% Stages as part of the overall project design plans.

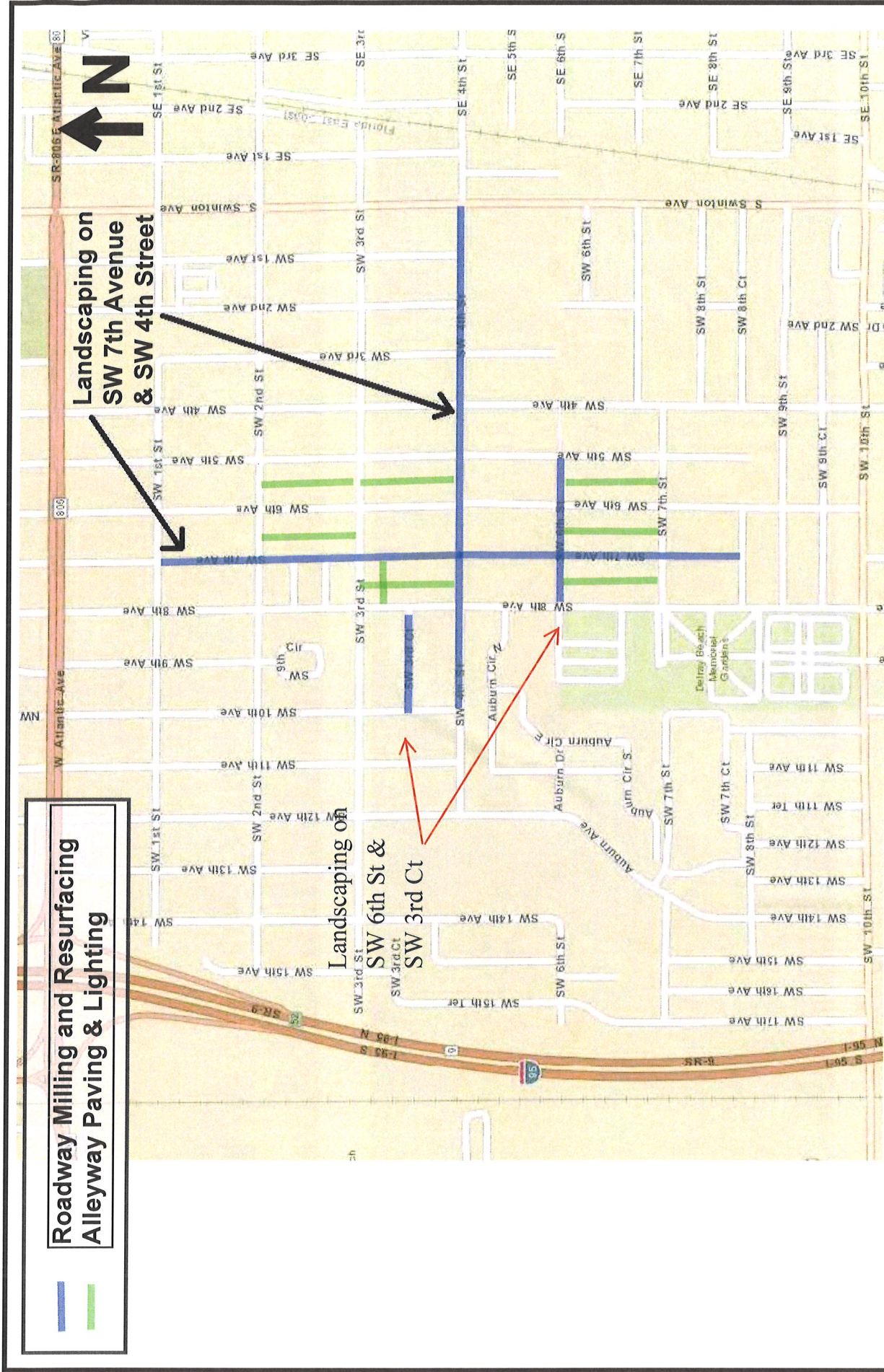


FIGURE:

1

CITY OF DELRAY BEACH

SW 4TH STREET, SW 6TH STREET, SW 7TH AVENUE, & SW 3RD COURT

5. **Specifications:** Contract documents consisting of “front-end” documents including pay item descriptions, bid schedule preparation and coordination with the landscape and electrical subconsultant for the inclusion of the additional technical specifications. The documents shall be prepared and shall conform to City of Delray Beach Standards and other local and state codes, as applicable. Specifications shall be submitted for City review at the 60% and 100% stages as part of the overall project design specifications.
6. **Cost Estimate:** At the 60% and 100% stages, Consultant shall prepare a detailed opinion of probable construction cost based upon the level of design drawings and specifications approved by the City. The cost opinion shall reflect changes in general scope, extent or character of design requirements incorporated during the various design review stages. The cost opinion shall include electrical, landscape and irrigation costs and a comprehensive and coordinated cost opinion shall be prepared for each design phase. The cost opinions shall be included as part of the overall project construction cost estimate.
7. **Meetings:** Consultant shall coordinate and attend up to two (2) additional meetings for the review and coordination of the landscape/irrigation design and the lighting design for the project.
8. **QA/QC:** Consultant shall provide internal QA/QC reviews and subconsultant coordination on the 30%, 60% and 100% Design Documents (e.g. drawings and specifications).

Phase IIIA – Public Outreach

Not Applicable

Phase IV – Bidding/Negotiation Phase

Not Applicable

Phase V – Construction Administration Phase

Design Support: Consultant shall provide design support during construction activities. This includes providing drawing clarifications, assisting with answering any Request for Information (RFIs) and for the coordination of electrical construction clarification issues which may arise.

Other – Landscape & Irrigation Design Subconsultant

Consultant shall furnish the services of a professional landscape architect to provide landscape and irrigation design plans and details for the project area that will include:

- Conceptual/Schematic Design (30%) typical detail(s) delineating the proposed landscape plant massing and trees in order to convey the landscape design

concept. The schematic design will be provided to the City for review and approval. Comments received shall be incorporated into the 60% design submittal.

- 60% Design Landscape and Irrigation Plans and Details, technical specifications and preliminary construction cost estimate (60%) will be prepared which shall delineate all proposed landscape plantings and irrigation improvements. Lighting and landscaping designs shall be coordinated with each other as well as with the roadway design and planting locations. Irrigation taps and meter locations will be coordinated. The planting details will include type, size, spacing and Florida grade of all plants at the time of planting. The 60% design submittal in electronic .pdf format will be provided to the City for review and comment. Comments received shall be incorporated into the 100% design submittal.
- 100% Design Landscape and Irrigation Plans and Details, technical specifications and preliminary construction cost estimate (100%) will be prepared which shall delineate all proposed landscape plantings and irrigation improvements. Final plans, specifications and construction cost estimate shall be provided to the City in electronic .pdf format, two (2) full size, hard copy plans, and two (2) copies of the technical specifications and construction cost estimate.

Other – Electrical/Street Lighting Engineering Design Subconsultant

Consultant shall furnish the services of a professional electrical engineer to provide the design services for the street and alleyway lighting, including design plans and details. The work shall include:

- Photometric evaluation of the project alleyways as included in the project limits. The evaluation assumes the use of cobra head type lighting in accordance with FPL Street Lighting Standards and will be in accordance with the city ordinances, IES recommendations and the NEC. The project shall be coordinated with FPL and a memorandum prepared with the information obtained. Light fixture selection shall be in accordance with FPL Street Lighting Standards and assumes that the City will enter into an ownership and maintenance agreement with FPL for all proposed lighting.
- 60% Design Lighting Plans and Details, technical specifications and preliminary construction cost estimate (60%) will be prepared which shall delineate all proposed lighting improvements. Lighting and landscaping designs shall be coordinated with each other as well as with the roadway design and planting locations. Requirements for electrical service to the irrigation system will be coordinated. The 60% design submittal in electronic .pdf format will be provided to the City for review and comment. Comments received shall be incorporated into the 100% design submittal.
- 100% Design Lighting Plans and Details, technical specifications and preliminary construction cost estimate (100%) will be prepared which shall delineate all proposed lighting improvements. Final plans, specifications and construction cost estimate shall be provided to the City in electronic .pdf format, two (2) full size, hard copy plans, and two (2) copies of the technical specifications and construction cost estimate.

ASSUMPTIONS

Work described herein is based upon the assumptions listed below. If conditions differ from those assumed in a manner that will affect schedule of Scope of Work, Consultant shall advise City in writing of the magnitude of the required adjustments. Changes in completion schedule or compensation to Consultant will be negotiated with City.

1. City will provide Consultant record drawings of all available existing facilities and proposed facilities, which shall serve as the basis of design in this project. The information will be provided to Consultant within 5 calendar days of Notice-to-Proceed (NTP).
2. Irrigation sources shall be city-owned potable water lines within the road right-of-way.
3. Consultant can assume that all existing and proposed infrastructure improvements are within City of Delray Beach rights-of-way.
4. Construction duration of 12-months is assumed.
5. City is responsible for all permitting fees, including costs of public notification in local newspapers.
6. The Contract Documents will be prepared as a single contract. No pre-purchase of materials and/or equipment is presumed.
7. City will be responsible for preparation of any descriptions, sketches and acquisition of easements (including temporary construction easements) that may be required. Consultant will identify the location and dimensions of any easements or temporary construction easements required for use of the City to prepare the easement descriptions and deeds.
8. The design is to be based on the federal, state and local codes and standards in effect at the beginning of the project. Revisions required for compliance with any subsequent changes to those regulations is considered an Additional Services Item not currently included in this Scope of Work.
9. Contractor will be responsible for preparing Record Drawings.
10. Assisting the City in the settlement of construction claims is considered Additional Services.

ADDITIONAL SERVICES

Consultant shall provide additional engineering services relating to the provision of surveying, geotechnical, sanitary, water, drainage improvements and lighting to the project area that are not covered under this Service Authorization. These additional services may be required due to uncertainties discovered during survey, soils, investigations, field verification of existing facilities and conditions, and potential property or easement acquisitions.

Services performed under this task will be on as-directed basis in accordance with a written Notice-to-Proceed from the City Manager. The Notice-to-Proceed issued shall contain the following information and requirements:

- A detailed description of the work to be undertaken.
- A budget establishing the amount of the fee to be paid in accordance with the Agreement.
- A time established for completion of the work.

III. TIME OF PERFORMANCE

The agreed upon project schedule between the City and Consultant has been modified for this Change Order No. 2. Refer to attached project schedule for the overall project.

VI. COMPENSATION

The compensation for Change Order No. 2 services provided shall be billed on a Lump Sum basis including reimbursable expenses for each phase of work up to the following not to exceed cost for each phase.

<u>Engineering Services</u>	<u>Estimated Fees</u>
Phase III – Final Design Phase	\$ 6,272.00
Phase V – Construction Administration	\$ 762.00
Landscape/Irrigation Design, Construction Assist	\$15,682.00
Electrical/Lighting Design, Construction Assist	\$16,590.00
Out-of-Pocket Expenses	\$ <u>0</u> ⁽¹⁾
TOTAL PROJECT COST (LUMP SUM)	\$39,306.00

Notes:

⁽¹⁾ Out-of-Pocket Expenses include the following: mileage, printing/reproduction and postage.

This landscape, irrigation and lighting scope of work refers to the AGREEMENT FOR PROFESSIONAL SERVICES RFQ 2017-032, ENGINEERING DESIGN SERVICES: SW 4TH STREET, SW 6th STREET, AND SW 7TH AVENUE, PROJECT NO. 16-500, and is approved contingent upon the City's acceptance of and satisfaction of the completion of the services rendered in the previous phase whereas encompassed by the previous Service Authorization. If the City in its sole discretion is unsatisfied with the services provided in the previous phase or Service Authorization, the City may terminate the contract without incurring any further liability. The Consultant shall commence work upon City Commission approval and this Service Authorization to be included as part of the contract without any further notice to proceed.

Approved by:

CITY OF DELRAY BEACH:

Date:

Mark Lauzier, City Manager

MATHEWS CONSULTING, A BAXTER & WOODMAN COMPANY

Date:

Rebecca Travis, P.E., Vice President

Witness

Attest:

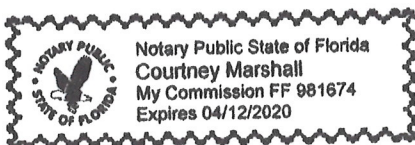
R. Max Lohman, City Attorney

Katene Johnson
City Clerk

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 2 day of July, 2018 by Rebecca Travis, Vice President of Mathews Consulting, a Baxter & Woodman Company, an Illinois corporation, on behalf of the corporation. He/She is (personally known to me) or (has produced identification), Florida Driver's License _____ and (did/did not) take an oath.

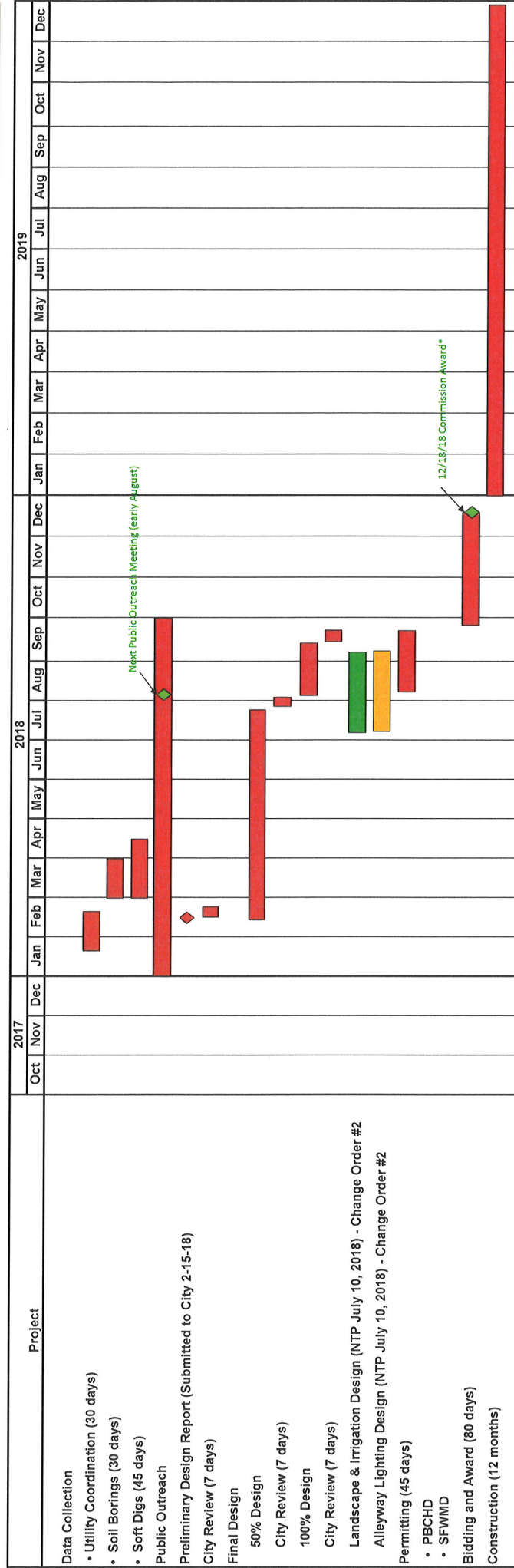
Courtney Marshall
Signature of person taking
Acknowledgement



City of Delray Beach - SW 4th Street; SW 6th Street and SW 7th Avenue - Landscape/Lighting Additional (4/2/18)

[illegible]

SW 4th Street, SW 6th Street & SW 7th Avenue Improvements - Revised* Project Schedule (7-2-18)



*Revised from MC's original contract bid award date by end of September 2018. Extension required in order to complete Change Order No. 2 design.

