

B-23-CP-FL-0383 City of Coconut Creek: Lyons Road Pedestrian Lighting Safety Project

PURPOSE

Request for qualified engineering firms with experience in the pedestrian scale lighting design. The purpose of the Lyons Road Pedestrian Lighting Safety Project (project) is to enhance safety and improve visibility for pedestrians to create a safer and more comfortable environment for bicyclists, pedestrians, and public transportation users. MTECC is requesting proposals on behalf of the City of Coconut Creek for the preparation of construction documents for pedestrian scale lighting along the west side sidewalk of Lyons Road from just north of Atlantic Boulevard to just south of the Sawgrass Expressway. In 2019, FDOT installed the underground lighting infrastructure including pull boxes and conduits to support this project. This project is federally funded through 2023 Community Project Funding provided by the Department of Housing and Urban Development (HUD). Broward Metropolitan Planning Organization (BMPO) is the steward of the Federal-aid funds and is responsible for oversight of federally funded projects on behalf of HUD.

SECTION I: SCOPE OF DESIGN SERVICES

Consultant shall develop construction plans and specifications for new pedestrian scale lighting along the west sidewalk of Lyons Road from 1,200 feet south of NW 6th Manor to Winston Park Boulevard with the exception of 900-feet north of Sample Road to Cullum Road (private development) for a total project length of 3.66 miles. All survey, plans, and specifications documents shall be performed and prepared to meet FDOT's latest standards. Improvements will be within Broward County rights-of-way (Atlantic Boulevard to Coconut Creek Parkway and Sample Road and Sawgrass Expressway) and City of Coconut Creek rights-of-way (Coconut Creek Parkway and Sample Road). The consultant shall furnish all services required for the design scope outlined below within nine months from notice to proceed.

SURVEY:

1. Ground Survey will be provided by FDOT from project 436319-1-52-03 Pedestrian Lighting Conduits. Consultant to review and determine if additional pick-up survey is required.

DESIGN:

1. New pedestrian scale lighting to illuminate the sidewalk along the west side of Lyons Road within the project limits to include all cabinets and electrical service points.
 - a. Photometric analysis in conformance with the most current version of FDOT Lighting Design Standards, Section 231 Lighting of the FDOT Design Manual.
 - b. Pedestrian level lighting in accordance with City's design standards. Luminaire to comply with dark sky regulations in addition to all other City and County requirements/codes.
 - c. Pull box and conduit infrastructure already constructed through FDOT project 436319-1-52-03 in 2022. Plans attached. Consultant shall complete a field review prior to initiating design to verify condition of existing lighting infrastructure.
 - d. Evaluation for removal of landscaping to enhance lighting effectiveness may be needed.
 - e. Design shall include recommendations for features that reduce potential for theft of the lighting system conductor with feature-related cost estimates; approval of inclusion of such features is required by Broward County and the City of Coconut Creek.

- e. Designer to consider technologies to improve energy efficiency and reduce maintenance.
2. Consultant shall acquire all necessary permitting for approval of design within Broward County rights-of-way.
3. Consultant shall develop existing utility line mapping for the project influence area for all underground and above ground utilities for conflict resolution. FDOT project files (436319-1-52-03) will be provided but will need to be verified by consultant engineer with latest information. Utility borings may be needed to verify locations of existing utilities.

PUBLIC MEETING:

1. Public Involvement will include one public meetings (at 60% design) and one presentation to the City Commission. Public meeting will require presentation board of the light fixture/pole/foundation, and one roll plot of project area to clearly show the new improvements proposed in a color-coded display.

PROJECT COORDINATION:

Constant coordination between design consultant, MTECC Program Management Team, City of Coconut Creek, and BMPO Coordinator to deliver the project scope, meet all grant requirements, and make the milestone submittals on schedule. Additionally, coordination with Broward County permitting, Florida Power and Light, and other private developers as required.

1. Finalize Design Scope- 1 hour
2. Kick-off Meeting- 1 hour
3. Bi-Weekly Coordination Meetings- 9M x 2 Meetings – 1 hour
4. Design Review Meetings- 2 review submittals X 2 meetings X 1 hour
5. Public Meeting Prep Meetings- 1 meetings x 1 hour
6. BMPO Grant Coordination Meetings- 3 meetings X 1 hour
7. Broward County Permitting Meetings – 2 meetings X 1 hour

SUBMITTALS:

- A. Consultant will be responsible for creating 60% plan submittal, 100% plan submittal, and sealed engineering documents.
- B. Cost estimates for 60%, 100%, and Final to include the latest historical bid item data available, construction inspection, permitting, and other construction costs.
- C. Project Specifications for 100% and Final. Project specifications must meet the intent of the federal grant.

SECTION II - RESPONSE REQUIREMENTS

- Plans should be submitted on 11x17.
- Design Engineer should follow FDOT Design Manual lighting standards
- Design shall meet the City of Coconut Creek Dark Skies Ordinance
- Request for proprietary products, if applicable should be submitted to the Department for review and approval before incorporating them in design plans.

- Engineer may consider bid alternates to maximize funding and protect City from cost prohibitive construction bidding. If the Agency chooses to use bid alternates, the bid alternate specs must be included in the specifications package and be a part of the plans and estimate.
- Design Engineer shall be familiar with the project budget and year programmed for construction, and partner with MTECC and the City to design the project within budget.

DRAFT