

EXHIBIT "A"



Carnahan, Proctor, and Cross, Inc.
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Deerfield Beach, Florida 33442
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Amendment No. NA

Proposal No:

Project Name: Sample Road Shared-Use Path Improvements

To: Michael Righetti
Senior Project Manager
4800 West Copans Road
Coconut Creek, FL 33063
Mrighetti@coconutcreek.net

- Fixed Fee, Maximum Upset Fee, Time & Expenses, Other

Estimated Date of Completion: TBD

Scope of Services:
See attached.

Prepared By: Mohan Gopalakrishna, P.E., PTOE, Senior Traffic/Transportation Manager

Please execute this Client Authorization for Carnahan Proctor and Cross, Inc. to proceed with the above scope of services at the stated estimated costs. No services will be provided until it is signed and returned to CPC.

Subject to Master Agreement with City
RFQ No. 11-19-14-10
Contract Extension No 1 - December 2017

Carnahan Proctor and Cross, Inc. Authorization

By Mohan Gopalakrishna, P.E., PTOE
Mohan Gopalakrishna
Digitally signed by Mohan Gopalakrishna
Date: 2023.05.26 16:00:12 -04'00'

Title: Sr. Traffic /Transportation Manager

Date: 5/26/2023

Subject to terms & conditions in our Master Agreement with City dated

Client Authorization (Please sign original and return)

By:

Title:

Date:

Exhibit-1

Proposal for the City of Coconut Creek Sample Road Shared-Use Path Improvements

1.0 PROJECT DESCRIPTION

The City of Coconut Creek received approval from Broward County Surtax Funds for the implementation of a 10' concrete shared-use path, approximately 4,000 feet, along the north side of Sample Road from East of Lyons Road to the Tradewinds Park Entrance (end at the driveway to the park). This mobility project will include enhancements to the existing Broward County Transit (BCT) Bus Stops (concrete pads only). The inclusion of shelters to be coordinated with BCT, 10' wide shared-use path (for pedestrians/bicycles) special emphasis crosswalks at the signalized intersection of Sample Road and Tradewinds Park entrance, and ADA compliant pedestrian ramps at the intersections. Areas impacted by the shared-use path installation will be addressed and will include drainage, minor landscaping (primarily sod replacement), utility relocation, light pole relocation, etc.



2.0 BASIS OF SCOPE

- This scope and fee are based upon coordination between Carnahan, Proctor, and Cross, Inc. (CPC) and Mike Righetti from the City of Coconut Creek (City).
- The reviewing agencies are the City, Broward County MPO, Broward County Parks Division, Broward County Traffic Engineering Division (BCTED), and the Florida Department of Transportation (FDOT).

3.0 DESIGN SCOPE AND FEE

- The scope of services will include the following due diligence efforts and will be performed as a part of Tasks 1, 2, and 3.
 - Meet with FDOT (Sample Road is a State Road) and City staff to identify the Project details and required compliance with Broward County MPO Surtax projects criteria. CPC will commit 30% of the design fee to Broward County County Business Enterprise (CBE) sub-consultant/s to meet the CBE goal established for this contract. For this purpose CPC has included the following CBE firms:



- *BMA Consulting Engineering, Inc.* located at 16928 SW 35th St., Miramar, Florida 33027. BMA is qualified to provide design support on sidewalk, drainage, structures, environmental permitting, landscaping, etc.
- *Federal Engineering & Testing, Inc. (FET)*, 3370 NE 5th Avenue, Oakland Park, FL 33334. FET is qualified to provide Geotechnical investigation services for this project.
- Coordination with FDOT for pre-application meetings and Broward County permitting efforts.
- Coordination with Mike Righetti to get input received regarding BCT-requested improvements and if they are to be covered by BCT or Surtax funds.
- Review the project's existing conditions, and identify potential impacts on the existing drainage system, utilities (overhead, underground), landscape, lighting, bus stops, intersections, etc. The field review will be documented with notes and site photos.
- Drainage calculations and design, where existing swales are impacted.
- Utility coordination and Utility adjustment to avoid impacts.
- Landscaping is not included, only sod restoration where they are impacted by the shared-use pathway installation.
- One retaining/gravity wall with a handrail design is anticipated near the canal just west of Tradewinds Park and will require design coordination.
- The Geotechnical investigation will include hand auger borings where the shared-use path is proposed.
- The Shared Use Path will be installed within the FDOT Right-of-Way (ROW) along Sample Road. Any needed easements will be coordinated with the property owners via the City staff.

Task 1 – Meetings

- Meetings: In addition to the initial kick-off meeting, CPC will be available to meet with the City's staff as required. Meetings will be held with Broward County, FDOT, and other permitting agencies as a part of the permitting efforts.
- Technical meetings, field meetings.
- CPC will provide meeting minutes and project documentation.

Two originals of this Authorization need to be executed. One original needs to be forwarded to Accounting Contract Files.



- Attending City's commission meetings as required.
- Support for City's staff for public involvement activities.

Task 2 - Specific Purpose Survey

- Horizontal information will be based on the North American Datum of 1983(NAD83/90), state plane coordinates, and Florida East Zone. Vertical information will be based on the North American Vertical Datum of 1988 (NAVD88).
- CPC will prepare a Specific Purpose Survey for the shared-use path:
- Topographic survey of approximately 4,000' +/-, feet long. Elevations will be taken in a 100' foot wide swath and grade breaks, from the edge of pavement to ROW lines on north and south. Elevations will be taken and shown along the inside and outside of the existing sidewalks.
- Above Ground topographic features will be taken and shown on maps; which will include existing signs, poles, structures, etc. (Quality Level C).
- A baseline (or two if needed) will be set up for the full length of the project and shown on maps
- Control points and benchmarks will be set for future construction
- ROW will be determined from FDOT maps and if needed property corners or land boundary corners will be located
- .SID aerials will be used for that layer
- Drawings will be in AutoCAD format, at a scale engineering can use for design
- Tree inventory for location. Efforts will not include tree identification with botanical names, size, height, etc.

Efforts do not include the following tasks. Such tasks can be included as additional services when requested.

- Title Search
- Descriptions and Sketches for easements, etc.
- Subsurface Utility Engineering (SUE) – Quality levels A, B, and D.
- Arborist Tree identification services

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- Wetland Environmental services
- Platting and Lot Split services

Task 3 – Shared-use Path Design

CPC will prepare construction drawings for the shared-use path construction and related improvements. The plans/drawings and or documents will include:

- Typical section – existing and proposed
- Existing R/W (as provided by the City and FDOT)
- Existing and proposed topographic elevations
- Plan View Drawings
- Alignment
- Signing & Pavement Markings
- Crosswalks
- ADA compliant Ramp details
- Project impact related to:
 - Landscaping (minor relocations and sod only)
 - Drainage (address only if impacted by shared-use path improvements)
 - Bus Stops (concrete pads, shelters to be coordinated). Improvements to be coordinated with BCT
- Above-ground utilities impacted by the project design
- Drainage preliminary evaluation (if needed)
- Determine participating and non-participating items (if any) based on the Surtax program.

The deliverables (electronic) will include the following items.

1. Concept Layout – for review and approval of the City
2. Shared-use path report and construction plans at 60%, 90%, 100%, and Final Submittals, along with construction cost estimates.
 1. Key Sheet (1 sheet)

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2. Summary of quantities (1 sheet)
3. Specific Purpose Survey/Project Network Control Sheets
4. Typical Sections (2)
5. Shared-use Path Improvements General Notes (1 sheet)
6. Shared-use Path Improvements Plan Sheets
7. Cross Sections
8. Gravity/Retaining Wall Detail and calculations
9. Drainage Map
10. Drainage Cross Sections
11. Drainage Calculations.
12. Drainage Permit (SFWMD, Cocomar Water Control District)
13. FDOT permit
14. Maintenance Memorandum of Agreement (MMA)
15. Broward County Permit
16. Utility Adjustment Sheets
17. Bus Pad Details (inclusion of shelter to be coordinated with BCT)
18. Stormwater Pollution Prevention Plan
19. Erosion Control Plan
20. Signing & Pavement Marking General Notes
21. Signing & Pavement Marking Plan
22. Construction Cost Estimates

End of Scope of Services

(See the Staff-hours and Fee Estimate below and attached giving the break-down)

Total Fee: \$300,803.18 (Lump Sum) (detailed fee estimate on the next page)
(includes Geotechnical Allowance: \$4,127.18)
(total fee includes CBE commitment of 30%, \$90,240.95)

4.0 SCHEDULE

CPC, in coordination with the City, will develop a project completion schedule using Microsoft Project.

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ACTIVITY DESCRIPTION	Sample Road Shared-Use Path Improvements								LABOR		OTHER EXPENSES		TASK COSTS
	Contract Rates								LABOR COST PER TASK	Quantity	Unit Price	COST PER TASK	
	\$200.00	\$150.00	\$140.00	\$115.00	\$75.00	\$85.00	\$125.00	\$135.00					
	Number of Staff-hours												
Project Principal	Project Manager	Senior Engineer	Engineer	Staff Assistant	Surveying Drafter	Field Crew Two Person	Land Surveyor						
Task 1: Meetings													
Kick Off Meeting	6	8	8	8	16				46	\$8,040			\$6,040
Project Management Miscellaneous	4	16	0	0	16				36	\$4,400			\$4,400
Meetings (other) and Permitting Coordination Efforts	4	16	0	8	16				44	\$5,320			\$5,320
Coordination with City, MPO, FPL, Broward County Parks, and FDOT	4	16	16	16	16				68	\$8,480			\$8,480
Task Totals	20	56	24	32	64	0	0	0	190	\$ 24,240.00	Task Sub total		\$24,240
Task 2: Specific Purpose Survey													
Surveying management		8							8	\$1,200			\$1,200
Topographic survey		8				24	32	32	96	\$11,560			\$11,560
Baseline setup		4				16	32	16	68	\$8,120			\$8,120
Control points and bench marks								16	32	\$6,320			\$6,320
Cross-sections every 100'		2				24	24	32	82	\$9,660			\$9,660
Draft Submittal		4			32				36	\$3,000			\$3,000
Final Submittal		4			24				28	\$2,400			\$2,400
Task Totals	0	30	0	0	56	64	104	112	366	\$ 42,260.00	Task Sub total		\$42,260
Task 3: Shared-use Path Design													
Concept Layout (Draft)		10	32	24					72	\$9,640			\$9,640
Concept Layout (Final)		4	32	24					60	\$7,840			\$7,840
Shared Use Path (Reports, Evaluation) - 60%		8	60	72					140	\$17,880			\$17,880
Shared Use Path - 60% Construction Plans		4	60	72					136	\$17,280			\$17,280
60% Construction Plans Submittal		4	16	24					44	\$5,600			\$5,600
Cost estimates - 60% Construction Plans		2	16	24					42	\$5,300			\$5,300
Response to comments, Comment Resolution		8	16	24					48	\$6,200			\$6,200
Shared Use Path (Reports, Evaluation) - 90%		8	60	96					168	\$20,870			\$20,870
Shared Use Path - 90% Construction Plans		4	60	96					162	\$20,270			\$20,270
90% Construction Plans Submittal		4	16	24					44	\$5,600			\$5,600
Cost estimates - 90% Construction Plans		2	16	16					34	\$4,380			\$4,380
Submit to permitting agencies		8	16	16					40	\$5,780			\$5,780
Response to comments, Comment Resolution		8	16	16					40	\$5,280			\$5,280
Shared Use Path (Reports, Evaluation) - 100%		8	40	56					104	\$13,240			\$13,240
Shared Use Path - 100% Construction Plans		8	40	56					104	\$13,240			\$13,240
100% Construction Plans Submittal		8	16	16					40	\$5,280			\$5,280
Cost estimates - 100% Construction Plans		8	16	16					40	\$5,280			\$5,280
Re-submit to permitting agencies		8	16	16					40	\$5,280			\$5,280
Response to comments, Comment Resolution		8	16	16					40	\$5,280			\$5,280
Shared Use Path (Reports, Evaluation) - Final Submittal		8	40	40					88	\$11,400			\$11,400
Shared Use Path - Final Submittal		8	40	40					88	\$11,400			\$11,400
Final Plans Submittal		0	16	16					40	\$5,280			\$5,280
Cost estimates - Final Construction Plans		8	16	16					40	\$5,280			\$5,280
Re-submit to permitting agencies		8	16	16					40	\$5,280			\$5,280
Project Closeout - provide relevant CADD and PDFs		8	16	16					40	\$5,280			\$5,280
Task Totals	0	176	704	852	0				1732	\$ 222,940.00	Task Sub total		\$222,940
TOTAL LABOR	20	262	728	884	120	64	104	112	2294	\$ 289,440.00			\$ 289,440.00
										Expenses	3%		\$ 7,236.00
										Geotechnical Allowance		\$ 4,127.18	\$ 4,127.18
TOTAL										Total Design Fee			\$300,803.18

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