

Coconut Road Crosswalks & Drainage Improvements Scope

Project Description:

Coconut Road is a Village of Estero (VILLAGE) maintained major collector roadway with a posted speed limit of 40 mph. This scope of engineering services includes the survey and design of drainage improvements at three locations and extension of a sidewalk at Coconut Road and South Coconut Island Drive. Services also include the survey and design of a mid-block crosswalk near the intersection of Olde Meadowbrook Boulevard and Coconut Road.

The limits of this project are along Coconut Road at the following locations between Via Veneto and Walden Center Drive. (Refer to the attached exhibit for the specific survey limits):

1. Approximately 410' east of Via Veneto (drainage improvements on south side of roadway)
2. Approximately 490' east of Via Vento (drainage improvements on south side of roadway)
3. Coconut Road at Olde Meadowbrook Boulevard (crosswalk location)
4. Approximately 425' east of N. Commons Drive (approximately 50' sidewalk extension on north side of roadway to South Coconut Island Drive and drainage improvements on north and south side of the roadway, all within FPL easement)

The drainage structures identified that are west of El Dorado Blvd. were constructed with grate elevations in close proximity to the roadway but at a lower elevation, resulting in significant erosion around the structures. The drainage structures identified that are east of N. Commons Dr. are within the roadway R/W and/or an Florida Power & Light (FPL) transmission line easement and are posing similar maintenance issues. The CONSULTANT (Kisinger Campo and Associates) will provide a design that meets the needs of the drainage conveyance in this area while limiting impacts to the many existing utilities present, reducing maintenance needs, and maintaining the safety of vehicles and pedestrians.

Existing traffic data will be utilized, no additional traffic data collection is proposed. The crosswalk design will provide an ADA compliant pathway connection/improvement on the south side of Coconut Road as well as an ADA compliant pathway/sidewalk addition on the north side of the roadway at the proposed marked crossing within VILLAGE right of way. The CONSULTANT shall perform design and prepare construction plans and specifications in accordance with applicable FDOT design criteria, FDOT Manual of Uniform Minimum Standards for Design, Construction, Maintenance of Streets and Highways (Florida Greenbook) 2016 Edition, the Americans with Disabilities Act Accessibility Guidelines, and the Manual on Uniform Traffic Control Devices for Streets and Highways. Plans shall be accurate legible, and complete in design.

TASK 1 - PROJECT ADMINISTRATION

This task includes project meetings, administration and coordination during the design phase of the project, including:

- Project Administration: CONSULTANT shall provide management services necessary to effectively administer the project including: coordination of disciplines and sub-consultants, contract and billing maintenance, schedule generation and maintenance, and maintaining regular communication with the COUNTY.
- Project kick-off meeting

- Eight (8) monthly progress meetings, including preparation of meeting agendas, coordination with attendees, and preparation of meeting summaries.
- CONSULTANT will prepare presentation material for and attend up to two (2) public information meetings and two (2) Council Meetings at a location provided by the VILLAGE.

TASK 2 – SURVEY & MAPPING

The CONSULTANT will prepare a Topographic Survey consisting of the following tasks:

- Establish the approximate location of the right-of-way lines based on the recorded subdivision plats, deeds and found monumentation.
- Locate the following above ground and visible improvements: edges of roadway pavement, striping, sidewalks, driveways, trees, drainage structures, light poles, sign posts, utility poles, overhead utility wires and visible above ground evidence of utilities.
- Obtain ground and pavement elevations at 50' intervals and along with significant terrain changes.
- Up to eight project benchmarks will be set (and noted on the survey) for use during the construction phase of the project.

The survey area limits, covering three areas along Coconut Road as shown on the attached exhibit totaling approximately 1,6800 linear feet, will go to the either the R/W, hedge, fence or wall, whichever is closer (as this applies to the applicable sections). Additionally, for the easterly and westerly areas, the up/down stream drainage structures will be included. Easements, other than those shown on the recorded subdivision plats, will be shown only if provided by the VILLAGE.

The CONSULTANT shall prepare sketch and legal description of two areas located at the NW and NE corners of South Coconut Island Drive and Coconut Road within the HOA parcel for proposed sidewalk connections. Sketch and Legal Description to be signed and sealed by a surveyor, to be utilized by the VILLAGE to acquire permanent easement for the required sidewalk extension on Coconut Shores Home Owner Association property.

Deliverables:

- *A digitally signed and sealed PDF of the Topographic Survey*
- *An Autocad drawing file of the Topographic Survey*
- *DTM Surface file and point list*
- *Digitally signed PDF of Sketch and Legal description for Coconut Shores HOA easement*

TASK 3 – PLAN PREPARATION

The CONSULTANT shall prepare design contract plans for the proposed crosswalk, sidewalk and drainage improvements on Coconut Road based on a concept approved by the VILLAGE. CONSULTANT will also provide LED lighting design to illuminate the mid-block crossing, including conducting photometric analysis for horizontal and vertical illumination for pedestrians at the crosswalk that meets FDOT criteria of 1.5 foot-candle.

Phase submittals will be 60%, 90% and Final (100%) plans. Submittals shall be prepared to include:

- A Key Sheet.
- General Notes Sheet
- Geometric plans for the proposed sidewalk improvements (horizontal and vertical layout).
- Plan sheets showing proposed sidewalk, signing and pavement marking and drainage improvements.
- Cross sections at 50' increments as well as at special/drainage sections.
- Summary of quantities for cost estimation and bidding purposes.
- Miscellaneous Construction Detail sheets necessary to convey the intent of the design.
- Lighting plan sheets
- Utility Relocation Sheets, as required
- Stormwater Pollution Prevention Plan
- Conceptual Traffic Control Plan.

The CONSULTANT will provide responses to all comments received at each phase review within fourteen (14) calendar days.

Deliverables:

- *Engineer's Opinion of Probable Cost for each submittal*
- *(1) 11X17 and electronic copy of plans*

TASK 4 - PERMITTING

The CONSULTANT shall prepare RW permit application and SFWMD permit modification or exemption application. The permit application packages must be approved by the VILLAGE prior to submittal to the regulatory agency. The CONSULTANT will attend one meeting with South Florida Water Management District. The VILLAGE will be responsible for all permitting fees.

TASK 5 - UTILITY COORDINATION

Utility Coordination shall include determining the utilities within the corridor through a Sunshine One Call. Utility owner contact information shall be included in the plans. The CONSULTANT will contact and provide information to the utility providers that own or maintain facilities within the project area. The CONSULTANT will incorporate any existing utility locations (provided by utility owners) within the plans. To the extent possible, the sidewalk and drainage design will attempt to avoid utility conflicts. Where unavoidable, disposition of the utility conflicts will be coordinated with the affected Utility Owner. This scope excludes the design of any utility relocation.

TASK 6 – BID PHASE SERVICES

The CONSULTANT shall compile electronic files and hard copies of necessary documents for the construction bid package. The CONSULTANT shall attend one pre-bid meeting and respond to contractor's bid questions through the VILLAGE. The CONSULTANT shall review the apparent low bid for consistency and responsiveness, and provide a Recommendation to Award to the VILLAGE as necessary to award the contract.

TASK 7 - POST-DESIGN SERVICES

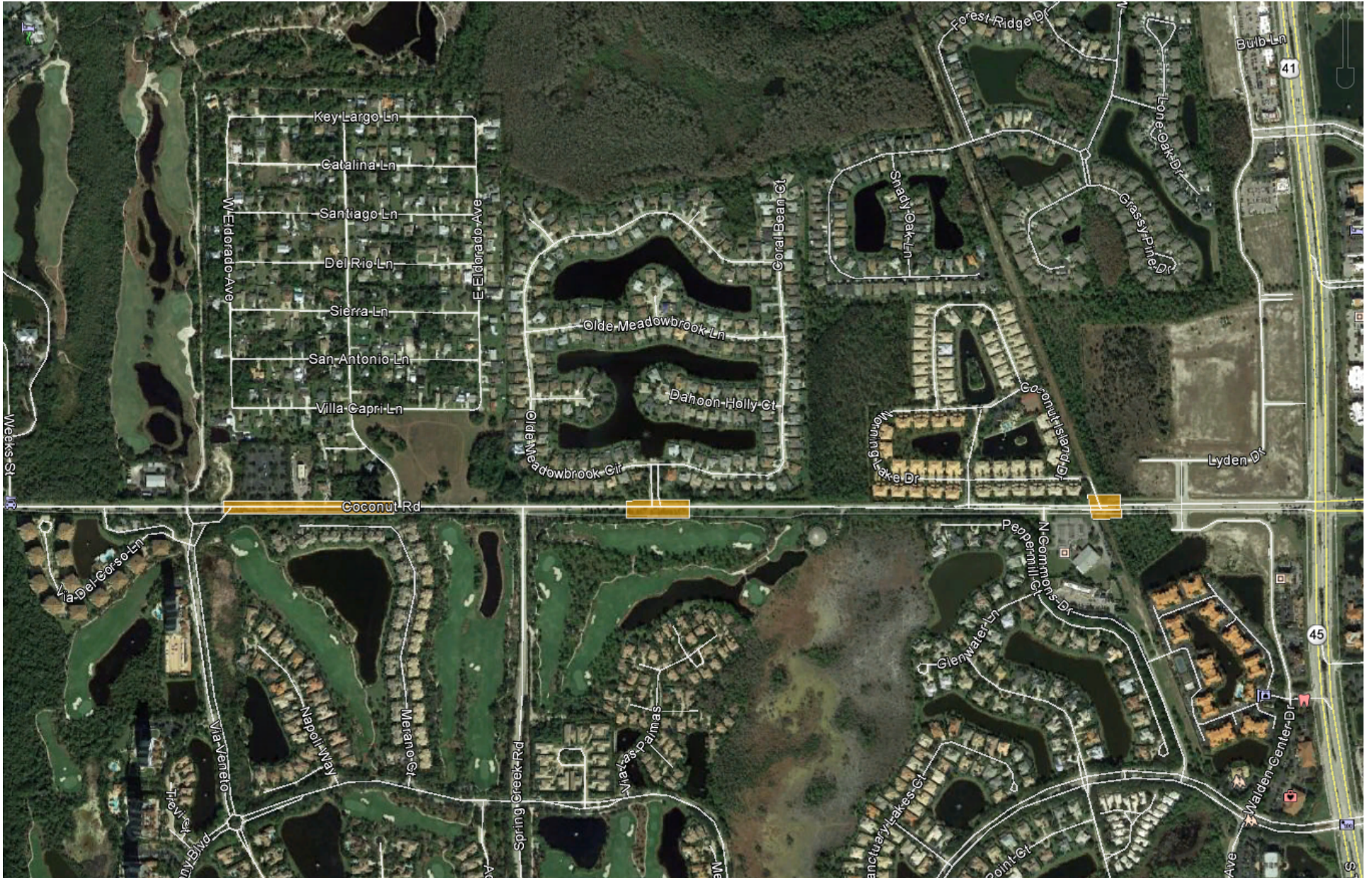
The CONSULTANT shall attend a pre-construction meeting, review shop drawings, plan revisions, as-built

drawings and coordinate with the VILLAGE staff and Contractor. The CONSULTANT will conduct up to two (2) site visits during construction and attend the final walk through at the end of construction.

OPTIONAL SERVICES

At the VILLAGE's option, the CONSULTANT may be requested to provide optional services. The fee for these services shall be negotiated between the parties prior to commencement, for a fair, competitive and reasonable cost, considering the scope and complexity of the task(s). The additional services may include:

- Geotechnical Investigation and Analysis
- Preparation of additional legal descriptions and sketches for right-of-way or easement/occupancy acquisition not identified in the above scope.
- Miscellaneous Structures Design for non-standard sign or signal foundations
- Subsurface Utility Engineering (SUE) services to field locate underground utilities for size, material and vertical position
- Construction Engineering and Inspection (CEI) Services



**Exhibit
Coconut Road**

Task	Description	Fee Basis	Contract Amount
1	ADMIN & MEETINGS	NTE	\$10,083
2	SURVEY & LEGAL AND SKETCH	LS	\$9,045
3	PLAN PREPARATION	LS	\$32,963
4	PERMITTING	NTE	\$3,957
5	UTILITY COORDINATION	NTE	\$3,055
6	BID PHASE SERVICES	NTE	\$2,688
7	POST DESIGN SERVICES	NTE	\$4,724
			\$66,515

6/19/2019

TOTAL

Kisinger Campo & Associates
 Coconut Road
 Village of Estero

SUMMARY
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total Hours	Total Cost
Hourly Rates	\$219	\$189	\$137	\$91		
1. ADMIN & MEETINGS	19	27	0	9	55	\$10,083
2. SURVEY	E.F. Gaines Surveying Services, Inc.					\$9,045
3. PLAN PREPARATION	6	62	94	77	239	\$32,963
4. PERMITTING	1	13	8	2	24	\$3,957
5. UTILITY COORDINATION	0	6	10	6	22	\$3,055
6. BID PHASE SERVICES	2	9	4	0	15	\$2,688
7. POST DESIGN	4	16	6	0	26	\$4,724
	32	133	122	94	381	
	\$7,010	\$25,128	\$16,769	\$8,563	\$66,515	
	10.5%	37.8%	25.2%	12.9%		

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ADMINISTRATION
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total
Hourly Rates	\$219	\$189	\$137	\$91	
PROJECT ADMINISTRATION					
Project Initiation & Kickoff Meeting	3	3			6
Project Administration (8 Months)	8			3	11
Progress Meetings (8 Meetings)		12			12
Stakeholder Meetings (4 meetings)	8	12		6	26
	19	27	0	9	55
Subtotal TOTAL ADMINISTRATION HOURS	19	27	0	9	55
TOTAL ADMINISTRATION COST	\$4,162	\$5,101	\$0	\$820	\$10,083

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PLAN PREPARATION
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total
Hourly Rates	\$219	\$189	\$137	\$91	
PLAN PREPARATION					
Key Sheet (1)			1	1	2
H & V Control Sheet			1	1	2
General Notes			2		2
Summary of Quantities		1	2	2	5
Miscellaneous Construction Details	1	4	8		13
Plan/Profile Sheets (4 at 40 scale)	2	12	20	30	64
Cross Sections (28 - 50' interval 4 per sheet)		6	12		18
Drainage Structure Sections (6)		6	12	12	30
MOT (Conceptual)		3	3		6
Lighting Sheets		12	16	16	44
Utility Relocation Sheets			6	6	12
Stormwater Pollution Prevention Plan			3	3	6
Quantities		2	6	6	14
Construction Cost Estimate (Preliminary & Final)	1	2	2		5
Quality Control	2	14			16
	6	62	94	77	239
Subtotal					
TOTAL PLAN PREPARATION HOURS	6	62	94	77	239
TOTAL PLAN PREPARATION COST	\$1,314	\$11,714	\$12,920	\$7,015	\$32,963

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PERMITTING
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total
Hourly Rates	\$219	\$189	\$137	\$91	
PERMITTING					
Agency Meetings (1 meetings)		3			3
Permitting & RAI's	1	8	8	2	19
Quality Control		2			2
	1	13	8	2	24
Subtotal					
TOTAL PERMITTING HOURS	1	13	8	2	24
TOTAL PERMITTING COST	\$219	\$2,456	\$1,100	\$182	\$3,957

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UTILITY COORDINATION
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total
Hourly Rate	\$219	\$189	\$137	\$91	
UTILITY COORDINATION					
Make Utility Contacts			2		2
Individual/Field Meetings		2	2		4
Collect and Review Plans and Data from UAO(s)			2	4	6
Utility Coordination / Followup		4	4	2	10
	0	6	10	6	22
Subtotal TOTAL UTILITY COORDINATION HOURS	0	6	10	6	22
TOTAL UTILITY COORDINATION COST	\$0	\$1,134	\$1,375	\$547	\$3,055

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BID PHASE SERVICES
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total
Hourly Rate	\$219	\$189	\$137	\$91	
BID PHASE SERVICES					
Specifications	1	2	2		5
Final Bid Documents		1	1		2
Pre-Bid Meeting		3			3
Bid Addenda		1	1		2
Bid Review/Recommendation	1	2			3
TOTAL BID PHASE SERVICES HOURS	2	9	4	0	15
TOTAL BID PHASE SERVICES COST	\$438	\$1,700	\$550	\$0	\$2,688

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POST DESIGN SERVICES
 ESTIMATE OF WORK EFFORT

6/19/2019

	Project Manager	Senior Engr	Engr	Engr Intern	Total
Hourly Rate	\$219	\$189	\$137	\$91	
POST DESIGN SERVICES					
Pre-Construction Meeting	2	3			5
Interpretations and Clarifications		2	2		4
RFI's		2	2		4
Review Shop Drawings		2	2		4
Construction Progress Meetings (2)		4			4
Final Walk Through	2	2			4
Record Drawing Review		1			1
TOTAL POST DESIGN SERVICES HOURS	4	16	6	0	26
TOTAL POST DESIGN SERVICES COST	\$876	\$3,023	\$825	\$0	\$4,724