

CHANGE ORDER APPROVAL FORM

PROJECT: Crawford Road Design Services

CHANGE ORDER NUMBER: 2

DATE: 02/24/15

CONTRACT NUMBER: CM2105

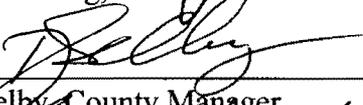
TO CONTRACTOR: EltonAlan, Incorporated.

Reason for Change Order: Additional engineering services for the development of a complete set of construction documents for the construction of a 55 mph design alternative for the Crawford Road construction project.

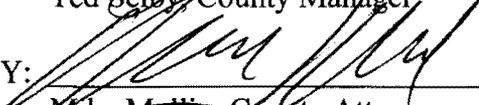
Original Contract Sum.....	\$	<u>632,213.53</u>
Net Change by Previous Change Order/Supplemental Agreement.	\$	<u>66,100.00</u>
Contract Sum Prior to This Change Order.....	\$	<u>698,313.53</u>
Amount of This Change Order (Add/Deduct).....	\$	<u>70,334.33</u>
New Contract Sum Including this Change Order.....	\$	<u>768,647.86</u>

APPROVED BY: 
Scott Herring, Public Works Director

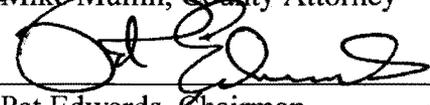
DATE: 3/20/15

APPROVED BY: 
Ted Selby, County Manager

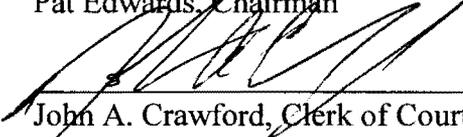
DATE: 4/27/15

APPROVED BY: 
Mike Mullin, County Attorney

DATE: 4-27-15

APPROVED BY: 
Pat Edwards, Chairman

DATE: 4-27-15

ATTEST: 
John A. Crawford, Clerk of Courts

DATE: 4-27-15

ACCOUNT NO.: 63470541-563365 CRAW1 and 63470541-563365 CRAW2 (acct. split to be determined)

Nassau County
Department of Contract Management

County X
Contractor
Field
Other

CHANGE ORDER REQUEST

PROJECT: Crawford Road Design Services CHANGE ORDER NO: 2

DATE: 02/24/15

CONTRACT NUMBER: CM2105

CONTRACTOR: EltonAlan, Incorporated

The Contract is changed as follows: Additional engineering services for the development of a complete set of construction documents for the construction of a 55mph design alternative for the Crawford Road construction project.

Original Contract Sum	\$	<u>632,213.53</u>
Net change by Previous Change Order	\$	<u>66,100.00</u>
Contract Sum Prior to This Change Order	\$	<u>698,313.53</u>
Amount of This Change Order (Add/Deduct)	\$	<u>70,334.33</u>
New Contract Sum, Including this Change Order	\$	<u>768,647.86</u>

This document, when signed by all parties, shall become an amendment to the Contract and all provisions of the Contract shall apply hereto.

RECOMMENDED BY: [Signature] DATE: 3/20/15
Resident/Project Representative

ACCEPTED BY: [Signature] DATE: 2/26/15
Contractor

Approved by: [Signature] DATE: 4-27-15
Board of County Commissioners
Or their Designee

EXHIBIT A
SCOPE OF SERVICES
ADDITIONAL ENGINEERING SERVICES
FOR
55MPH DESIGN ALTERNATIVE FOR CRAWFORD ROAD
NASSAU COUNTY, FLORIDA
FEBRUARY 24, 2015

A. PROJECT DESCRIPTION

1. The intent of this project is to provide final construction documents and all required permits for the proposed roadway improvements to construct a new 6.5 mile long two lane roadway connecting CR 121 with the existing paved portion of Crawford Road just west of US 301.
2. This scope includes all additional engineering services required for the development of a complete set of construction documents for the construction of a 55mph design alternative for this project. These improvements will be provided as two separate phases, each of which having its own set of construction documents with Phase One including the section of Crawford Road from CR 121 to the Old Alabama Trail (Phase I, 1.5 miles) and Phase Two including the section from the Old Alabama Trail to US 301 (Phase 2, 6 miles +/-). This scope includes all engineering services that are outlined in the original scope of services as applicable for the development of a complete set of construction documents.

B. PROJECT SCOPE

Engineering Services

1. Data Collection Services – No additional data collection included herein
2. Preliminary Engineering / Concept Development – N/A
3. Project General Task

The Consultant shall designate appropriate staff to conduct Quality Assurance/Quality Control (QA/QC) reviews of all work products prior to submittals to the County.

4. Roadway Analysis and Plans

The Consultant will perform the necessary roadway analyses and prepare construction plan sheets, notes and details for a complete set of roadway construction documents to convey the intent and scope of the project for the purposes of construction. The consultant will develop a pavement design based on the existing traffic data currently available (NERPM Model, etc.) and the soil conditions that are present. Included herein are also the analyses, plans and design details necessary for a safe and effective Maintenance of Traffic (MOT) Plan to move vehicular and pedestrian traffic during all phases of construction. The design will be prepared in accordance with the FDOT Green Book and applicable County Standards. This task will also include the preparation of Standard Specifications and Special Provisions.

5. Drainage Analysis

The Consultant will provide any additional services necessary for the analysis and final design of improvements to the existing and any proposed drainage facilities necessary to support the 55mph design alternative for this project.

6. Utility Coordination

No additional services will be required herein

7. Signing and Pavement Marking Analyses and Plans

No additional services will be required herein

8. Permitting

No additional services will be required herein

9. Construction Cost Estimate

The Consultant will provide two construction cost estimates for the 55mph design alternative. The first will be at the 60% submittal and the second will be provided with final plans.

10. Bid Phase Services

No additional services will be required herein

C. PROJECT DELIVERABLES

Since two complete sets of roadway plans will be developed for this project, up to five draft copies of each set of construction documents and required supporting documents (utility certifications, drainage and permit certifications, QC certifications, design calculations, letters, memos, etc.) will be submitted at the 60%, 90% and final stages of design.

D. PROJECT SCHEDULE

The consultant will provide all services included within this scope within a 6 month timeframe unless unforeseen permitting complications occur that are beyond our control. A final schedule that includes all milestone dates will be submitted within 30 days of the NTP.

E. COUNTY RESPONSIBILITIES

1. Documents – The County shall provide access to any available plans, maps and other pertinent information under its control essential to the satisfactory completion of the work indicated herein.
2. Reviews – The County will provide timely reviews of the Consultant's work in accordance with the schedule agreed upon between the County and the Consultant. Each review period by the county shall be two weeks, at which time all comments will be forwarded to the Consultant.

F. ASSUMPTIONS

1. This effort does not include any contamination investigations or analysis. If areas are identified during the design, requiring further analysis, they will be addressed separately.
2. Utility relocation design services are not included in this scope of work. If relocations and/or upgrades are identified as necessary by utility agencies, the relocation design work will be addressed separately.
3. Wetland mitigation and/or threatened and endangered species mitigation efforts and/or designs are not included in this scope of services. If necessary, efforts will be addressed separately.
4. The County will be responsible for all agency permitting and/or application fees. These costs are not part of the Consultant's scope and proposal.

G. COMPENSATION

EltonAlan will perform the scope of these additional Engineering Services outlined herein for a lump sum fee of **\$70,334.33**. A breakdown of the individual task fee amounts are indicated in the detailed Fee Proposal is attached hereto.

ESTIMATE OF WORK EFFORT AND FEE

Crawford Road 55 MPH Design Alternative Section 1

Project Length (miles): 1.3

No. / ACTIVITY	Sheets	Sr. Project Manager Rate = \$197.47			Sr. Engineer Rate = \$137.16			Sr. Designer Rate = \$126.39			Clerical Rate = \$71.08			Project Totals Avg Rate \$122.71		
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost			
FINAL DESIGN																
TASK 1 - FINAL ENGINEERING DATA COLLECTION SERVICES - N/A																
TASK 2 - FINAL ENGINEERING / PLANS DEVELOPMENT GENERAL TASKS																
2a	Meetings		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	PM attendance at all meetings and field visits as necessary
2b	Project Administration / Coordination	5	\$ 987.35	0	\$ -	0	\$ -	0	\$ -	0	\$ -	5	\$ 987.35		\$ 987.35	3% of technical hours
2c	QA/QC	8	\$ (197.47)	-1	\$ -	0	\$ -	0	\$ -	0	\$ -	7	\$ (197.47)		\$ (197.47)	5% of technical hours
	Subtotal											12	\$ 789.88			
TASK 3 - ROADWAY ANALYSIS AND PLANS																
3a	Field Review / Site Visit		\$ -		\$ -		\$ -	0	\$ -	0	\$ -		\$ -		\$ -	
3b	Pavement Design															Provided with Phase I Plans
3c	Roadway Design Analysis	4	\$ 789.88	6	\$ 822.96	6	\$ 758.34	0	\$ -	16	\$ 2,371.18		\$ 2,371.18		\$ 2,371.18	Includes the development H/V Master Design files as well as X-sect. for 55 mph design
3d	Traffic Control Analysis															Included with Phase I Plans
3e	Roadway Plans	Sheets														
	Key Sheet		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Summary of Pay Items	1	0	\$ -	4	\$ 548.64	8	\$ 1,011.12	0	\$ -	12	\$ 1,559.76		\$ 1,559.76		
	Typical Sections	1	0	\$ -	2	\$ 274.32	8	\$ 1,011.12	0	\$ -	10	\$ 1,285.44		\$ 1,285.44		CADD work for 55 mph TS
	General Notes		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Project Layout		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Roadway Plan and Profiles	13	\$ -		\$ -	26	\$ 3,286.14	0	\$ -	26	\$ 3,286.14		\$ 3,286.14		\$ 3,286.14	2 hrs per sheet
	Cross Sections	138	\$ -		\$ -	35	\$ 4,423.65	0	\$ -	35	\$ 4,423.65		\$ 4,423.65		\$ 4,423.65	Cross sections spaced @ 50'
	SWPPP		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Erosion Control Details & Plans		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Traffic Control typical and notes		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Special Details		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
3f	Design Documentation Report		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Include in 40mph alternative report
3g	Pay Item Quantities		\$ -	8	\$ 1,097.28	16	\$ 2,022.24	8	\$ 568.64	32	\$ 3,688.16		\$ 3,688.16		\$ 3,688.16	
3h	Final Documents & Specifications		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
3i	Meetings		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -		\$ -	Utilize 40mph alternative info
	Subtotal											131	\$ 16,614.33			
TASK 4 - DRAINAGE ANALYSIS & PLANS - N/A																
TASK 5 - UTILITY COORDINATION - N/A																
TASK 6 - SIGNING AND PAVEMENT MARKING - N/A																
TASK 7 - PERMITTING - N/A																
TASK 8 - CONSTRUCTION COST ESTIMATES																
	Subtotal	1	\$ 197.47	2	\$ 274.32	3	\$ 379.17	0	\$ -	6	\$ 850.96		\$ 850.96		\$ 850.96	Including Quantity verifications
TASK 9 - BID PHASE SERVICES - N/A																
	55 MPH DESIGN ALTERNATIVE TOTAL - Section 1											151	\$ 18,529.49		\$ 18,529.49	Lump sum

ESTIMATE OF WORK EFFORT AND FEE

Crawford Road 55 MPH Design Alternative Section 2
Project Length (miles): 5.0

No. / ACTIVITY	Sheets	Sr. Project Manager		Sr. Engineer		Sr. Designer		Clerical		Project Totals		
		Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	
			Rate = \$197.47		Rate = \$137.16		Rate = \$126.39		Rate = \$71.08		Avg Rate \$130.16	
FINAL DESIGN												
TASK 1 - FINAL ENGINEERING DATA COLLECTION SERVICES												
TASK 2 - FINAL ENGINEERING / PLANS DEVELOPMENT GENERAL TASKS												
2a	Meetings		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	PM attendance at all meetings and field visits as necessary
2b	Project Administration / Coordination	12	\$ 2,369.64	0	\$ -	0	\$ -	0	\$ -	12	\$ 2,369.64	3% of technical hours
2c	QA/QC	8	\$ 1,974.70	10	\$ -	0	\$ -	0	\$ -	18	\$ 1,974.70	5% of technical hours
	Subtotal									30	\$ 4,344.34	
TASK 3 - ROADWAY ANALYSIS AND PLANS												
3a	Field Review / Site Visit		\$ -		\$ -		\$ -	0	\$ -	0	\$ -	
3b	Pavement Design											Provided with Phase I Plans
3c	Roadway Design Analysis	8	\$ 1,579.76	26	\$ 3,566.16	26	\$ 3,286.14	0	\$ -	60	\$ 8,432.06	Includes the development H/V Master Design files as well as X-sect. for 55 mph design
3d	Traffic Control Analysis											Included with Phase I Plans
3e	Roadway Plans	Sheets									\$ -	
	Key Sheet		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Summary of Pay Items	1	\$ -	4	\$ 548.64	8	\$ 1,011.12	0	\$ -	12	\$ 1,559.76	
	Typical Sections	1	\$ -	2	\$ 274.32	8	\$ 1,011.12	0	\$ -	10	\$ 1,285.44	CADD work for 55 mph TS
	General Notes		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Project Layout		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Roadway Plan and Profiles	48	\$ -	0	\$ -	96	\$ 12,133.44	0	\$ -	96	\$ 12,133.44	2 hrs per sheet
	Cross Sections	528	\$ -	0	\$ -	132	\$ 16,683.48	0	\$ -	132	\$ 16,683.48	Cross sections spaced @ 50'
	SWPPP		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Erosion Control Details & Plans		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Traffic Control typical and notes		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Special Details		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
3f	Design Documentation Report		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Include in 40mph alternative report
3g	Pay Item Quantities		\$ -	8	\$ 1,097.28	16	\$ 2,022.24	8	\$ 568.64	32	\$ 3,688.16	
3h	Final Documents & Specifications		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
3i	Meetings		\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	Utilize 40mph alternative info
	Subtotal									342	\$ 43,782.34	
TASK 4 - DRAINAGE ANALYSIS & PLANS - N/A												
TASK 5 - UTILITY COORDINATION - N/A												
TASK 6 - SIGNING AND PAVEMENT MARKING - N/A												
TASK 7 - PERMITTING - N/A												
TASK 8 - CONSTRUCTION COST ESTIMATES												
	Subtotal	4	\$ 789.88	8	\$ 1,097.28	12	\$ 1,516.68	0	\$ -	24	\$ 3,403.84	Including Quantity verifications
TASK 9 - BID PHASE SERVICES - N/A												
55 MPH DESIGN ALTERNATIVE TOTAL - Section 2										398	\$ 61,804.84	Lump sum