## WORK AUTHORIZATION # CM2499-WA05 NASSAU COUNTY

# BOARD OF COUNTY COMMISSIONERS CONTINUING CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES RFQ/BID NO. NC 17-006

Consultant:	EltonAlan, Inc.
Contract Number:	CM2499
Contact Name:	Michael Holcomb
Contact Number:	904-891-0360
Email:	mike@eltonalan.com

	CURRENT WO	RK AUTHORIZATION	
Project Short Title: Des	sign Services for Pratt S	Siding Road	
		CONTRACT OVERV	ŒW
Date Submitted	10/11/19	Total of Previous Authorizations	\$137,000.00
		Change Orders/Adjustments	\$0.00
Amount	\$272,582.24	This Work Authorization	\$272,582.24
Scheduled Completion	30 weeks from NTP	Current Contract Total	\$409,582.24

This Work Authorization is to the AGREEMENT between Nassau County and the Consultant known as the Continuing Contract for Professional Engineering Services for Nassau County, Florida, dated January 8, 2018. The services to be provided under this Work Authorization are as follows:

## ARTICLE 1. Services Described as:

EltonAlan, Inc. will provide engineering design services for the paving of Pratt Siding Road, pursuant to the Scope of Services dated October 11, 2019, attached hereto as Attachment "A".

## ARTICLE 2. Time Schedule

The total estimated time to complete the services under this Work Authorization is 30 weeks from NTP.

## ARTICLE 3. Budget

EltonAlan, Inc. will perform the *Scope of Services* outlined herein for the Total of \$272,582.24. EltonAlan, Inc. will be using billing rates established under Continuing contract CM2499.

### Article 4. Other Provisions

The services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. Additional terms or contract provisions whether submitted purposely or inadvertently, shall have no force or effect. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

In presenting this Work Authorization, Consultant agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services are attached.

## AGREED TO BY:

BY:	
Print Name:	
Title:	
Date:	

## RECOMMENDED AND APPROVED BY NASSAU COUNTY:

County Engineer:	Department Head or Designee
Contract Management:	Grayson Hagins
Office of Management & Budget:	Megan Diehl
County Manager:	Michael S. Mullin
Ex-Officio Clerk:	John Crawford
County Attorney:	Michael S. Mullin
APPROVED by the BOARD OF, 2019.	COUNTY COMMISSIONERS, this day of
	BOARD OF COUNTY COMMISSIONERS NASSAU COUNTY, FLORIDA
	Justin M. Taylor Chairman

ACCOUNTNO.: 63470541-563365 PRATT

#### Attachment A

#### SCOPE OF SERVICES

#### **ENGINEERING SERVICES**

#### FOR CR PRATT SIDING

## NASSAU COUNTY, FLORIDA

## OCTOBER 11, 2019

#### A. PROJECT DESCRIPTION

- 1) The intent of this project to pave the existing Pratt Siding dirt road from Old Dixie to US1. Some of the items within the project limits includes:
  - a. Three Minor Cross Drain Culverts Proposed to be replaced due to inadequate length
  - b. Approximately 18 driveways All proposed to be modified / paved to 5'
  - 5 Named Cross Streets All "intersections" proposed to be improved to some extent (either treated as a driveway connection or as a typical intersection)
  - d. One major CSX R/R crossing to be upgraded to current standards.
  - e. The project also appears to fall within an impaired water body.
- 2) This scope of services includes all engineering services required to develop final construction documents, right of way acquisition documents (if/as necessary) and obtain all required permits to achieve the project intent.
- 3) All services provided within the Scope of Services shall be in accordance with Nassau County Ordinance 99-7 Appendix D Roadway and Drainage Standards as well as the "Construction and Maintenance for Streets and Highways", commonly known as the "Florida Green Book".
- 4) The scope of services includes:
  - a. Data Collection
  - b. Engineering Design
  - c. Plans and Specifications Preparation
  - d. Right of Way Mapping (if/as necessary)
  - e. Environmental Permitting
  - f. Bid Phase Services
  - g. Post Design Services

**B. Professional Services to be Provided**— The Consultant shall provide the following services:

## 1) Data Collection

- a. <u>Geotechnical Engineering</u> Collect field samples, perform laboratory testing and provide a detailed Geotechnical report as follows:
  - 1. Collect Auger Borings to 6' depth spaced at 500' alternating left and right of centerline. Encountered ground water levels and unsuitable materials will be noted with each sample. (16 locations total)
  - 2. Collect SPT borings to a depth of 20' at all culvert crossings. Encountered ground water levels and unsuitable materials will be noted with each sample. (3 locations total)
  - 3. Collect Limerock Bearing Ratio (LBR) samples spaced at 2500' along centerline (3 locations total).
  - 4. Soil samples for laboratory soil testing will be obtained on a frequency of three samples per stratum per mile. Soil samples for pipe corrosion testing will be also be obtained at each culvert crossing.
  - 5. Sufficient testing will be performed on soils recovered from the borings for classification purposes using the AASHTO and the Unified Soil Classification System for organic content, moisture content, waterberg limits, percent fines, corrosion susceptibility, structural characteristics, LBR and estimated seasonal high groundwater elevations.
  - 6. A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction and imposed loading conditions. The results (including past and proposed as applicable) of the exploration and engineering study will be presented in a report containing the following:
    - a. Soil Data Sheets
    - b. Laboratory Test Results
    - c. Design LBR Results
    - d. Estimated Seasonal High Groundwater Levels
    - e. Recommendations concerning the suitability of the subsurface soils for support of the planned roadway.
    - f. Recommendations concerning the suitability of the subsurface soils for support of the planned culverts.
    - g. Recommendations for the required site preparation and earthwork construction
- b. <u>Survey</u> The consultant shall provide survey services within the projects limits as follows:
  - a. Establish Horizontal and Vertical Control (state Plane Coordinates)
  - b. Establish Baseline of survey
  - c. Establish project Benchmarks and Reference Points (every 1000')
  - d. Locate existing section lines and property ties
  - e. Provide Cross Sections every 100' as well as at each culvert crossing and every intersection from 50 left of centerline to 50' feet right of centerline.

- f. Survey geotechnical boring locations
- g. Survey wetland jurisdictional lines
- h. Provide design survey within right of way limits including all above ground features together with drainage structures and observed utilities
- i. Survey all above ground utilities within right of way
- j. Provide survey data by electronic files (Microstation)
- k. Provide R/W Maintenance Maps (40 scale)
- 2) Design Analyses The consultant shall provide a design analysis report containing the following;
  - a. <u>Traffic Analysis</u> The Consultant will conduct a traffic analysis to identify project 5-Year and 20-Year traffic volumes along the corridor and at either end, conduct signal warrant analyses and conduct a no passing zone analysis
  - b. <u>Drainage Analysis</u> The Consultant will prepare a Drainage Study to analyze existing stormwater facilities along the corridor as follows:
    - i. Master Drainage plan (1" = 200') showing existing contours (from County provided LIDAR data) and field verified data for critical areas such as major drainage ways, storm pipes and bridge structures
    - ii. Include as a minimum, drainage calculations for existing and final design conditions using 25 years SCS methodology
    - iii. As part of the study, a pre-application meeting will be conducted with the St. Johns River Water Management District to clarify project criteria, and to identify feasible mitigation and other requirements. Recommendations for accomplishing stormwater treatment will be included in the study
  - c. <u>Environmental Analysis</u> The Consultant will prepare an Environmental Analysis that will include a Wetland, threatened and endangered species field inventory. Based upon these inventories, potential impacts of the project will be identified, and options to mitigate these impacts will be identified based upon the preliminary coordination with the WMD
  - d. <u>Utility Impact Analysis</u> The Consultant shall contact the known private and public utility companies within the project corridor (such as FPL, Okeefenoke, CXS, Quest, Comcast, Williams Communications, MCl, AT&T and Level III) or who have definitive plans to locate within the corridor and obtain plans of their existing or planned facilities (both horizontally and vertically) within the project limits. The consultant shall determine potential impacts with the proposed improvements.
  - e. <u>Roadway Analysis</u> Based on the recommendations of the Traffic, Drainage, Environmental and Utility Impact Analyses, the Consultant shall provide a roadway analysis including design documentation that includes:
    - i. Pavement Design
    - ii. Roadway Typical Sections
    - iii. Design speed determinations
    - iv. Roadway Horizontal alignment
    - v. Intersection improvements
    - vi. Right-of-way requirements (if any)

- vii. Maintenance of traffic
- viii. Conceptual Plans using aerial photography as a base
- ix. Opinion of probable costs at 30%, 60%, 100% and final design phases
- 3) Construction Plans and Specifications The Consultant will perform the necessary additional analyses and prepare construction plan sheets, notes and details for a complete set of construction documents to convey the intent and scope of the project for the purposes of construction as follows:
  - Key Sheet
  - · Summary of Pay Items
  - Typical Sections
  - Drainage Map
  - Summary of Quantities
     / Drainage Structures
  - Project Layout / Benchmark / Reference Points
  - General Notes

- Roadway Plan / Profiles
- Drainage Structures
- Soil Survey
- Cross Sections
- SWPPP
- Traffic Control Plans
- Signing and Pavement Marking Plans
- 4) Utility Coordination The Consultant shall be responsible for coordinating all design with the affected utility companies in order to minimize utility conflicts. The consultant shall re-contact these utilities and submit 60% design plans that include all known existing utilities. The consultant shall make a final contact with these utilities to submit 90% plans that show all proposed roadway and drainage improvements. Utility coordination meetings will be held at the 60%, 90% and Final phases of design.
- 5) **Right of Way Mapping** (Not included herein will add as a supplement to this contract if/as necessary)
- 6) Environmental Permitting The Consultant will provide all services (data collection, field surveys, coordination, agency meetings, permit and associated exhibit preparation, etc.) necessary to develop and apply for a permit exemption with the St. Johns River Water Management District pursuant to section 62-330.051 (4)(e) Repair, stabilization or paving of existing unpaved roads and a Nationwide (NWP) 14 through the US Army Corps of Engineers. Should the project exceed the thresholds of these authorizations, additional services provided under a future scope of services will be required for the preparation and submittal of either a Standard General or Individual permits through those agencies.
- 7) **Bid Phase Services** The Consultant will prepare a bid package including front end documents for the bidding of this project. The consultant will also formally respond to questions during the bidding phase of the project and prepare a recommendation of the lowest qualified bidder based on the county prepared bid tabulations.

- 8) Post Design Services The Consultant will provide services necessary to assist the County during the construction phase of this project. The consultant will respond to contractor requests for information, review and approve shop drawings, attend meetings as necessary and revise plans as necessary.
- C. Project Deliverables -The Consultant shall provide the following deliverables:
  - 1) Design Concept Report (approximately 10% phase)
  - 2) Design Survey (after Preliminary Phase)
  - 3) Preliminary and Final Geotechnical Report (after Preliminary Phase)
  - 4) Utility Clearance Certifications (@ 90%)
  - 5) Environmental Permits (@ 90%)
  - 6) Engineers Estimates (60%, 90% and Final)
  - 7) Construction Plans (60%, 90%% and Final)
- D. **Project Schedule** -The Consultant shall provide the services included herein within a total of xx weeks from NTP in accordance with the following milestones:
  - 1) Design Concept Report 6 weeks from NTP
  - 2) Survey and Geotechnical Report 8 weeks from concept approval
  - 3) Utility Clearance Certifications 26 weeks from NTP
  - 4) Environmental Permits 26 weeks from NTP
  - 5) Construction Plans / Engineers Estimates
    - 1. 60% 12 weeks from concept approval
    - 2. 90% 8 weeks from 60% approval
    - 3. Final / Bid Docs- 4 weeks from 90% approval

The total estimated time to complete this project is 30 weeks from EltonAlan's receipt of an NTP.

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								Projec	t Length	Project Length (miles): 1.5	ŀ				
Tasks		Staff Hour Totals	Totals				Staffhour Distribution	istributi	uo						
							 5,	lect Manage Findineer	Project Manager / Sr.	Sr Designer		CADD Tech ( Admin	, ( Admin		
				쮼	Raw Hourly Rabes	tes	<u></u>	\$65.00	0	\$40.70	Ī	\$18.00	00		
		٠.	Allowable	d FDOT (	Allowabled FDOT OH Rate: 175,99%	75,99%		\$114.39	39	\$71.63	63	\$31.68	68		
		;		ፚ፟	Profit Rale: 10.00%	%0000		\$17.94	41	\$11.24	25	\$4.97	7.6		
	Loaded Labor Kates	r Kates		-	-			\$197.36	98	\$123,58	-58	\$54.	19	Cost Totals	,
		ģ	Ē	Hor	Hours per Unit	Total Hours	Hours		Cost	Hours	Cost	Hours :	Cost	Cost	du manus C
TASH	TASK 1-DATA COLLECTION SERVICES														Coliniente
Surve	Survey Base Task												<i>υ</i>	25,000.00	
Right	Right of Way Mapping												69		Existing ROW data will be collected but no mapping included for additional right f way at this point in time.
Geote	Geotechnical												69	15,000.00	
Speci	Environmental - Wetland Delineation and Protected Species Assessment												₩	7,500.00	
	Data Collection Subtotal	ıbtotal			To the state of th								65	47,500.00	
TASK	TASK 2-ROADWAY DESIGN AWALYSIS AND PLANS (Based on the Assumption that Additional Right	(Baser	d on the	Assum	ption that,	Additional Righ	it of Way will Not Be Required)	I Not Be	Required						
	Field Review / Site Visit	7	visits ×	80	Hrs =	16 Staff H	fours 8	49	1,578.88	. ÷	988.64	<b>9</b>	1	2,567.52	4 Hour Trips (find travel) x two people)
SIS	Traffic Analysis	<u>~</u>	analysis x	× 24	Hrs=	24 Staff H	lours 4		789.44	15 \$	1,853.70	ις; <del>(3</del>	273.35 \$	2,916,49	Develop design traffic volumes based on County data
KJANA	Pavement Design	1	designs x	x 4	Hrs =	4 Staff H	tours 1		197.36	69 (C)	370.74	<b>9</b>	,	568.10	In conjunction with geotec analysis
olon v	Typical Section Design	81	design x	× 24	Hrs ==	48 Staff H	tours 8	69	1,578.88	29 \$	3,583.82	*	601.37 \$	5,764.07	
<b>DE</b>	Roadway Design Analysis	1,5	miles x	120	Hrs =	184 Staff H	tours 28	ω	5,526.08	111 .\$	13,717,38	45 . \$2	\$ 2,460.15	21,703.61	Preliminary Conceptual design, final design, plus revisions/updates @ 90% and Final Plan Phase
	Traffic Control Plan Design Analysis	1.5	miles x	24	Hrs =	37 Staff H	lours 6	69	1,184.16	23	2,842.34	8	437.36 \$	4,463.86	40 hours for MOT concept development, and 8 hours per mile.
	Key Sheet	-	x speets x	g ×	Hrs ==	6 Staff H	iours 1	<i>th</i>	197.36	\$	494.32	69	54.67 \$	746.35	
	Summary of Pay Items	-	sheets x	x 16	Hrs =	16 Staff H	iours 3	<del>69</del>	592.08	10 .	1,235.80	€9 	164.01 \$	1,991.89	Initial development @ 60%, updates @ 90% and Final
	Typical Sections	2	sheets x	x 12	Hrs =	24 Staff Hours	iours 4	<del>()</del>	789.44	15 : \$	1,853.70	€9 ∵ 10	273.35 \$	2,916,49	CADD work only (Preferred T.S. Developed Previously)
	General Notes	-	sheets x	x 12	Hrs =	12 Staff H	lours 2	∙	394.72	8	988.64	2 .	109.34 \$	1,492.70	
	Summary of Quantities Sheets	25	sheets x	× 4	Hrs= 1	100 Staff Hours	fours 15	43	2,960.40	\$ 09	7,414.80	25 \$	\$ 1,366.75	11,741.95	
SNAJ	Project Layout	63	sheets x	80 X	Hrs =	24 Staff H	lours 4	69	789.44	15 . \$	1,853.70	ۍ 	273.35 \$	2,916.49	500 Scale Layout Sheets Plus one Benchmark Sheet
YAW	Roadway Plan and Profiles	15	sheets x	4 4	Hrs ==	60 Staff Hours	lours 9	67	1,776.24	398	4,448.88	15	820.05	7,045.17	40 Scale
ТАОЯ	Intersection Detail Sheets	m	sheets x	x 16	Hrs =	48 Staff Hours	fours 8	. <del></del>	1,578.88	29	3,583.82	7	601.37 \$	5,764.07	Both Ends Plus Railroad Crossing
	Soil Survey Sheet	-	sheets x	× 2	Hrs =	2 Staff Hours	fours 1	. <del>69</del>	197.36	2 .\$	247.16		(54.67) \$	389.85	
	Cross Sections	32	sheets x	7. 7.	HS a	49 Staff Hours	lours 8	<del>69</del>	1,578.88	30 ့	3,707.40	11 .\$	601.37 \$	5,887.65	100 Foot Spacing, (plus one at each driveway) - 3 Sections Per Sheet
	Erosion Control Details & Plans	15	sheets x	τ- ×	Hrs≔	15 Staff Hours	lours 3	s <del>s</del>	592,08	<b>6</b>	1,112.22	ю 	164.01	1,868.31	40 Scale
	Traffic Control Typicals and Notes	rs	sheets x	8	Hrs =	24 Staff Hours	lours 4	67	789.44	\$1	1,853.70	5	273.35 \$	2,916.49	
	Special Details	۲۶	sheets x	x 16	Hrs ==	32 Staff Hours	ours 5	₩.	986.80	20 . \$	2,471.60		382.69 \$	3,841,09	

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Tooler				444			٦	roject L	ength (n	Project Length (miles): 1.5	5				
Labra	Staff H	Starr Hour Totals	ı,			Stafff	Staffhour Distribution Project Manager / Sr.	ribution : Manage	er/Sr.						
				Raw Hourly Rates	lv Rates		`	Engineer		Sr. Designer		CADD Tech / Admin	/ Admin		
************		Allowa	bled FD	OT OH Rat	Allowabled FDOT OH Rate: 175.99%			\$114.39	1	\$77.63	3 6	\$31,68	3 8		
•				Profit Rat	Profit Rate: 10,00%			\$17.94		\$11.24	41	\$4.97			
	Loaded Labor Rates	ates	-					\$197.35		\$123.58	238	\$54.67	25	Cost Totals	ļ
	Ü	οtγ.	Cuit	Hours per Unit		Total Hours	Hours	්	Cost	Hours	Cost	Hours	Cost	Cost	Comments
Roadway Design Documentation Report		1 eac	each x	60 Hrs=	09 =	Staff Hours	ത	45	1,776.24	36	4,448.88	15	820.05	\$ 7,045.17	The state of the s
Quantities		1.5 miles x		24 Hrs	= 37	Staff Hours	ဖ	69	1,184.16	23 . \$	2,842.34	8	437.36	\$ 4,463.86	86 Initial comps @ 60%, updates @ 90% and Final
Cost & Contract Time Estimate		4 eac	each x	12 Hrs=	48	Staff Hours	80	\$ ±	1,578.88	29 \$	3,583.82	11 \$	601.37	\$ 5,764.07	Initial estimate @ Concept Phase plus 60% estimate and updates @ 90% and Final
Technical Specifications		1 eac	each x	24 Hrs=	24	Staff Hours	4	69	789.44	15 .	1,853.70	ry es	273.35	\$ 2,916.49	<del> </del>
Roadway Technical Hours Sub-Total	s Sub-Total				894	Hrs Total									
Project Administration / Coordination		3% ×		894 Hrs=	= 27	Staff Hours	4	\$ 2,7	2,763.04	. <del>(s)</del>	,	13	710.71	\$ 3,473.75	Includes coordination / meetings with Nassau County, our subs and other stakeholders iffas necessary
	QA/QC	5% x		894 Hrs ::	45	Staff Hours	0	ω.	,	\$	,	<b>.</b>	ı	ω	Independent QA/QC performed by subconsultant
			Road	Roadway Total	996	Staff Hours								\$ 111,165.49	67
TASK 3DRAINAGE ANALYSIS AND PLANS (Based on the Assumption that Stormwater Ponds will Not be Required)	NS (Based on	the Assu	mption	that Ston	nwater Po	ands Will Not be	Require	<b>6</b>		100					
Field Review / Site Visit		2 eac	each x	8 Hrs≔	= 16	Staff Hours	α	₩.	1,578.88	6 <del>9</del> 00	988.64		,	\$ 2,567.52	52 4 Hour Trips (incl travel) x two people)
ひ Drainage Basin Hydrology Analysis		1 eac	each x	80 Hrs=	- 80	Staff Hours	52	.8 2,3	2,368.32	48 . \$	5,931.84	20 :	\$ 1,093.40	\$ 9,393,56	99
Design of Cross Drains		3 евс	each x	16 Hrs=	48	Staff Hours	æ	\$ 1,5	1,578.88	29 . \$	3,583.82	11 .5	601.37	\$ 5,764.07	20
Design of Roadway Ditches		3.1 miles x		16 Hrs=	= 49	Staff Hours	83	\$ 1,5	1,578.88	30 \$	3,707.40	11 \$	601.37	\$ 5,887.65	59
Box Culvert Structural Design Analysis		0 each x		0	a		0	<b>69</b>	1	<b>\$</b>	,		,		
Drainage Maps		4 sheets x	- 1	12 Hrs	= 48	Staff Hours	ဆ	3,1	1,578.88	29 \$	3,583.82	41 : \$	601.37	\$ 5,764.07	07 200 Scale Plus one Master Drainage Map sheet
Special Drainage Detail Sheets		3 each x	- !	16 Hrs=	48	Staff Hours	ω	\$ 1,5	1,578.88	29 \$	3,583.82	11	601.37	\$ 5,764.07	77 Detailed grading around box culvert replacement
Summary of Drainage Structures Sheets		1.5 each x		16 Hrs=	= 25	Staff Hours	4	<del>69</del>	789.44	15 . \$	1,853.70	\$	328.02	\$ 2,971.16	91
Ret/Det Pond Detail Sheets		0 each x	hх		0		0	€			'	\$	,	49	None anticipated
Drainage Design Documentation Report		1 each x		60 Hrs=	9	Staff Hours	හ	1,7	1,776.24	. 38	4,448.88	15 \$	820.05	\$ 7,045.17	41
Drainage Technical Hours Sub-Total	rs Sub-Total				374	Hrs Total									
Project Administration / Coordination		3% ×		374 Hrs=	12	Staff Hours	မ	£ .	1,184.16	<b>.</b> О	1	ω.	328.02	\$ 1,512.18	Includes coordination / meetings with Nassau County, our subs and other stakeholders iffas necessary
	QAVQC !	2% ×		374 Hrs=	- 19	Staff Hours	0	69	•		ı		'	8	Independent QA/QC performed by subconsulant
			Drain	Drainage Total	1 405	Staff Hours								\$ 46,669.45	93
TASK 4 - SIGNING AND PAVEMENT MARKING ANALYSIS AND PLANS	GING ANALYS	IS AND I	PLANS												
Field Review / Site Visit		1 each x		8 Hrs=	8	Staff Hours	4	\$	789.44	 %	494.32	\$	1	\$ 1,283.76	76 4 Hour Trips (incl travel) x two people)
SAPM Analysis		1.5 miles x	- 1	12 Hrs=	19	Staff Hours	e	69	592.08	12 \$	1,482.96	4: .\$	218.68	\$ 2,293.72	2.

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Praft Siding Road
Project Length (miles): 1.5

700								1	ישרו דבי	rioject Length (miles):	1.5					
200		inou —	Staff Hour Lotals				Staffhor	ur Distri	taffhour Distribution	יט						The state of the s
								ជ	Engineer		Sr. Designer	igner	CADD Tec	CADD Tech / Admin		
				S.	Raw Hourly Rates	ates		97	\$65,00		\$40.70	2	\$16	\$18.00		
			Allowabled	FDOT (	Allowabled FDOT OH Rate: 175,99%	75.99%		\$	\$114.39		\$71.63	53	\$31	\$31.68		
				Ĕ	Profit Rate: 10,00%	10.00%		471	\$17.94		\$11.24	54	귏	\$4.97		
	Loaded Labor Rates	r Rates		-				\$	\$197.36		\$123.58	.58	\$5	\$54.67	Cost Totals	
		Qty.	Unit	표	Hours per Unit	Total	Total Hours	Hours	Cost		Hours	Cost	Hours	Cost	Cost	
Des	No Passing Zone Study	٥	miles x	9	Hrs ==	0		0	4		\$÷ .	,	0	67	Ф	NA VA
	Key Sheet	7-	each x	4	Hrs =	4	Staff Hours	_	\$ 197	197.36	69	370.74	0	69	\$ 568.10	10
SN	Tabulation of Quantities	4	each x	12	Hrs =	12	Staff Hours	73	76E \$	394.72 8	\$	988,64	2	\$ 109.34	\$ 1,492,70	02
AJ9 M	General Notes	-	each x	12	Hrs =	12	Staff Hours	2	768	394.72 8	<del>ss</del>	988.64	2	\$ 109.34	\$ 1,492.70	70
dS	Plan Sheets	55	each x	12	Hrs =	180	Staff Hours	. 72	\$ 5,328.72	ļ	108 \$	13,346.64	45	\$ 2,460.15	\$ 21,135.51	51 40 Scale
	Special Details	6	each x	ω	His II	24	Staff Hours	4	\$ 786	789.44	15 \$	1,853.70		\$ 273.35	\$ 2,916,49	1 Intersection Details and Railroad
	SPM Technical Hours Sub-Total	<u></u>				259	Staff Hours									
	Project Administration / Coordination	3%	×	259	Hrs ==	8	Staff Hours	4	\$ 786	789.44 0		,	4.	\$ 218.68	\$ 1,008,12	Includes coordination / meetings with Nassau County, our subs and other stakeholders if as necessary
	QA/QC 5%	2 5%	×	259	Hrs =	日	Staff Hours	0	€9	-		,	0	1 40-	69	
	Signing	g/Pa	Signing / Pavement Marking Total	larking	g Total	280									\$ 32,191.10	10
TASK	TASK 5 - Utility / Railroad Coordination													1		
Sellify	Utility Contacts (Letters)	9	each x	121	Hrs =	12	Staff Hours	0	ь	,		1	57	\$ 656.04	\$ 656.04	Altel, FPL, Quest, Comcast, Williams, Okeefenokee, Windstream, MCI, AT&T, Southern Gas, Level 3
Utility	Utility Relocation Plans	9	sheets x	N	Hrs ==	12	Staff Hours	2	\$ 394	394.72 8	8	988.64	2	\$ 109.34	\$ 1,492.70	70 100 Scale
Ctility	Utility Coordination / followup	9	each x	74	Hrs II	12	Staff Hours	ω	\$ 1,184.16		\$	741.48	· 0	,	\$ 1,925.64	64 Includes utility plans research and coordinating with "Sunshine One Call"
Railro	Railroad Coordination	1	each x	9	Hrs =	40	Staff Hours	8	\$ 3,947.20	7.20 20		2,471,60	6	,	\$ 6,418.80	09
Cellity	Utility Certification	9	each x	1	Hrs =	91	Staff Hours	ω	\$ 1,184,16	ļ	<b>\$</b>	1	5	,	\$ 1,184.18	19
		TET .	Utility CoordinationTotal	linatio	nTotal	82	Staff Hours								\$ 11,677.34	75
TASK	TASK.6ENVIRONMENTAL PERMITTING															
SJRV	SJRWMD Permitting (wetlands only)	-	each x	24	Hrs.	24	Staff Hours	4	\$ 788	789.44	15 \$	1,853.70	ις •÷	\$ 273.35	\$ 2,916,49	69
USAC	USACOE Permitting	1	x qoea	24	Hrs ==	24	Staff Hours	4	\$ 789	789.44	15 : \$	1,853.70	70 84	273.35	\$ 2,916.49	49 Wetlands
Storm	Stormwater Permitting (Documentation / application for ex	- A3	each x	40	Hrs =	40	Staff Hours	ω	\$ 1,184.16	4.16 24	4	2,965.92	10 \$	546.70	\$ 4,696.78	82
Permi	Permit Meetings	4	each x	4	Hrs =	91	Hrs Total	80	\$ 1,578.88	3.88 8	69	988,64	· ·	,	\$ 2,567,52	22 Migs Each with SJRWMD, USACOE @ 4 Hrs each incl 2 attendees , preparation and minutes
			Per	Permitting Total	y Total	104	Staff Hours								\$ 13,097,28	13,097.28

ELTONALAN ESTIMATE OF WORK EFFORT AND FEE

g Road	1
Pratt Siding	A complete from 11
	1 77 77 7

					Tacher.	Project Length (miles): 1.5	nues): 1,5			
l asks Staff Ho	Staff Hour Totals	,,		Staffhou	r Distributi	uo.				
				_	Project Manager / Sr.	ager / Sr.				
				!	Engineer	eer	Sr. Designer	CADD Tech / Admin		
		Raw Hourly Rates	rly Rates		\$65.00	ę.	\$40.70	\$18.00		
	Allowat	Allowabled FDOT OH Rate: 175,99%	e: 175,99%		\$114.39	88	\$71.63	\$31,68		
		Profit Rate	Profit Rate: 10,00%		\$17.94	설	\$11.24	\$4.97		
Loaded Labor Rates	ates				\$197.36	36	\$123,58	\$54.67	Cost Totals	
3	aty. Unit	it Hours per Unit	. Total Hours		Hours :	Cost	Hours Cost	Hours Cost	Cost	Commonant
TASK7 BID PHASE SERVICES										Confidence
Development of Final Bid Package	1 each x	1x 16 Hrs≕	16	Staff Hours	<del>19</del>	592.08	10 \$ 1,235.80	3 \$ 164.01	1,991.89	
Contractor inquiry response, pre-bid mtg attendance, bid i	1 each x	1x 24 Hrs=	24	Staff Hours	4 8	789.44	15 \$ 1,853.70	0 5 \$ 273.35	\$ 2,916.49	
	Bid Phase	Bid Phase Services Total	40	Staff Hours					\$ 4,908.38	
						TOTA	L LUMP SUM AMO	TOTAL LUMP SUM AMOUNT (Tasks 1-7 above) \$		287,209.04 Total Lump Sum Amount
Limiting Amount Tasks:							•			
TASK 8 ~ POST DESIGN SERVICES										
Post Design Services					20 \$	3,947.20	8 \$ 988.64	4 8 \$ 437.36	\$ 5,373,20	
						,	TOTAL LIMITING A	TOTAL LIMITING AMOUNT (Task 8 above) \$		5,373.20 Total Limiting Amount
						TOTAL	CONTRACT AMO	TOTAL CONTRACT AMOUNT (Tasks 1-8 above) \$		272,582.24 Total Contract Amount