

Attachment A
SCOPE OF SERVICES
ENGINEERING SERVICES
FOR CR 115
NASSAU COUNTY, FLORIDA
July 25, 2017

A. PROJECT DESCRIPTION

- 1) The intent of this project to widen and resurface 7.8 miles of CR 115 from Bypass Road to Henry Smith Road in order to provide consistent 11' travel lanes in each direction and extend the life of the existing pavement. This scope of services for CR 115 within the project limits includes:
 - a. Bridge Culvert # 740073 over Little Mills Creek (Triple 11'x8' Box Culverts) – Proposed to be replaced
 - b. Bridge # 740095 over Mills Creek (130' long by 32' wide) – No improvements anticipated
 - c. Box Culvert (10'x4') – No improvements anticipated assuming no structural issues are discovered
 - d. Box Culvert (10'x4') – No improvements anticipated assuming no structural issues are discovered
 - e. Four Minor Cross Drain Culverts – No improvements anticipated assuming no structural issues are discovered
 - f. Approximately 170 side drain culverts – all will be evaluated for condition, flow capacity and/or horizontal/vertical location and reset or replaced if/as necessary
 - g. Approximately 150 driveways – All proposed to be modified / paved to 5'
 - h. Twenty One Named Cross Streets – All "intersections" proposed to be improved to some extent (either treated as a driveway connection or as a typical intersection)
 - i. Three Guardrail Locations (total length of 4,550 lf) – All proposed to be brought up to current standards if/as necessary
- 2) This scope of services includes all engineering services required to develop final construction documents and obtain all required permits to achieve the project intent.
- 3) The scope of this project is based on information included in the Request for Qualifications (RFQ) NC16-030.

- 4) 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".
- 5) The scope of services includes:
 - a. Data Collection
 - b. Engineering Design Analyses
 - c. Plans and Specifications Preparation
 - d. Utility Coordination
 - e. Right of Way Mapping (none anticipated and thus not included herein)
 - f. Environmental Permitting
 - g. Bid Phase Services
 - h. Post Design Services

B. LUMP SUM PROFESSIONAL SERVICES

The Consultant shall provide the following tasks for a single lump sum amount:

- 1) **Data Collection** –EltonAlan currently has Geotechnical and Survey field data that was collected previously for Nassau County for the southerly portion of the project (Segment 1). Although this scope includes complete data collection for the northerly portion of the project (Section 2), EltonAlan is proposing a cost savings initiative that supplements the the existing data with limited new data as follows:
 - a. Geotechnical Engineering – EltonAlan shall supplement the existing geotechnical data previously collected in Segment 1 with limited new data and also collect complete geotechnical data for Segment 2 and provide a detailed Geotechnical report for the entire 7.8 mile project as described below:
 1. Auger Borings collected to a depth of 6' left and right of the roadway centerline (with encountered ground water levels and unsuitable materials noted with each sample) at a spacing of 300' within Segment 2 (76 locations) and semi-randomly located in order to supplement existing data within Segment 1 (15 locations)
 2. Pavement Cores collected along centerline at a spacing of 1000' within Segment 2 (23 locations) and semi-randomly located in order to supplement existing data within Segment 1 (5 locations)
 3. SPT Borings collected to a depth of 20' at each end of proposed end walls for all proposed cross drain culvert replacement locations. Encountered ground water levels and unsuitable materials will be noted with each sample. (2 locations total)

4. Limerock Bearing Ratio (LBR) Samples spaced at 2500' along centerline within Segment 2 (9 locations) and semi-randomly located in order to supplement existing data within Segment 1 (3 locations)
 5. Testing and Geotechnical Engineering Analysis - 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. 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. 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.
 6. Geotechnical Report - The results of the exploration, testing and engineering analysis will be presented in a report containing the following:
 - Soil Data Sheets
 - Laboratory Test Results
 - Design LBR Results
 - Estimated Seasonal High Groundwater Levels
 - Recommendations concerning the suitability of the subsurface soils for support of the planned roadway.
 - Recommendations concerning the suitability of the subsurface soils for support of the planned culverts.
 - Recommendations for the required site preparation and earthwork construction
- b. Survey – EltonAlan shall provide complete survey services within the Segment 2 and limited verification data collection within Segment 1 as part of a Base Survey task. A Supplemental Survey task is also included in case additional Segment 1 survey data is subsequently determined to be required as follows:
1. Base Survey:
 - Project Geodetic Control (3 pairs of GPS points)- Segment 2 only
 - Project Vertical Control – Complete for Segment 2, verification for Segment 1
 - Alignment Including R-W and Centerline monumentation ties – Complete for Segment 2, verification for Segment 1
 - Topo/DTM Survey - Cross sections every 100' for Segment 2, test sections every 500' for Segment 1
 - Geotechnical Boring Locations – Stake all required (approximately 135) borings within Segments 1 and 2
 - Jurisdictional Wetlands Locations – Complete for Segments 1 and 2
 - Utility Designation Locations – Complete for Segments 1 and 2
 - Right of Way and Plat Research – Complete for Segments 1 and 2
 - Survey Data File in Micro Station – Complete for Segments 1 and 2

2. Supplemental Survey:

- Project Geodetic Control - 2 additional pairs of GPS point for Segment 1
- Project Vertical Control – Complete Vertical Control for Segment 1
- Alignment Including R-W and Centerline monumentation ties – Complete for Segment 1
- Topo/DTM Survey - Cross sections every 100' for Segment 1

Note: No work will commence on the Supplemental Survey Task without prior written approval from the county.

2) **Roadway Design Analyses and Plans** – EltonAlan shall provide a roadway design analysis to ensure that all proposed roadway improvements are in accordance with all applicable local and state requirements as described below:

- a. Roadway Analysis – EltonAlan shall provide a roadway analysis including design documentation of the following elements:
 - i. Field Conditions - Perform detailed field visits of the project corridor to review all applicable roadway features
 - ii. Design Traffic Volume – Perform a traffic analysis in order to determine the design traffic volumes for the
 - iii. Roadway Typical Sections
 - iv. Pavement Sections
 - v. Roadway Horizontal and Vertical Alignment
 - vi. Opinion of Probable Costs and Construction Duration Estimates at 60%, 100% and Final design phases
 - vii. Roadway Design Report containing all calculations, assumptions and supporting documentation for the development of the roadway design elements.
- b. Construction Plans and Specifications - The Consultant will prepare construction plan sheets, notes and details for a complete set of construction documents to convey the intent and scope of the project in accordance with all applicable local and state requirements.

3) **Drainage Analysis** – EltonAlan shall provide a drainage design analysis to ensure that all proposed drainage improvements are in accordance with all applicable local and state requirements as described below:

- i. Field Conditions - Perform detailed field visits to review applicable drainage features within and immediately surrounding the project corridor
- ii. 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
- iii. Hydrology - Include as a minimum, hydrologic calculations for existing and final design conditions using 25 years SCS methodology
- iv. Cross Drain Culverts – Design replacement culverts for those proposed to be replaced as described in section A of this scope of services in

- order to meet all applicable local and state hydraulic conveyance, roadway overtopping and rate of discharge requirements.
- v. Roadway Ditches - Design the roadside ditches and side drain culverts to adequately convey stormwater runoff to each applicable outfall at a rate not to exceed the current "pre-development" discharge rate.
 - vi. Drainage Design Report – Provide a drainage design report containing all calculations, assumptions and supporting documentation for the development of all drainage design elements.
- 4) **Signing and Pavement Marking Analysis** - EltonAlan shall provide a signing and pavement marking design analysis to ensure that all proposed signing and pavement marking improvements are in accordance with all applicable local, state and MUTCD requirements as applicable. Included in the analysis will be a No Passing Zone Study as well.
- 5) **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.
- 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. 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.

C. LIMITING AMOUNT PROFESSIONAL SERVICES

The Consultant shall provide the following services based on unit rates and estimated staffhours as described below:

- 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.

D. Project Deliverables

The Consultant shall provide the following deliverables:

- 1) Signed and Sealed Survey
- 2) Preliminary and Final Geotechnical Report
- 3) Utility Clearance Certifications (@ 100%)
- 4) Environmental Permits (@ 90%)
- 5) Construction Duration and Cost Estimates (30%, 60%, 100% and Final)
- 6) Construction Plans and Specifications (30%, 60%, 100% and Final)
- 7) Bid Documents (Final)

E. Project Schedule

The Consultant shall provide the services included herein within a total of nine months from NTP.

ELTONALAN ESTIMATE OF WORK EFFORT AND FEE

CR 115 Widening and Resurfacing

Project Length (miles): 7.8

ATTACHMENT "B"
Contract No. CM2448

Tasks	Staff Hour Totals Raw Hourly Rates Audited FDOT OH Rate: 182.00% Profit Rate: 10.00% Loaded Labor Rates				Staffhour Distribution								Cost Totals	Comments
					Project Manager / Sr. Engineer		Sr. Engineer		Sr. Designer		CADD Tech / Admin			
					\$60.00		\$55.00		\$40.00		\$18.00			
					\$109.20		\$100.10		\$72.80		\$32.76			
					\$16.92		\$15.51		\$11.28		\$5.08			
					\$186.12		\$170.61		\$124.08		\$55.84			
Qty.	Unit	Hours per Unit	Total Hours	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Cost		
Lump Sum Tasks:														
TASK 1 - DATA COLLECTION SERVICES														
	Survey Base Task											\$ 71,250.00	Includes alignment/centerline/ROW monumentation for entire 7.8 miles, complete Topo/DTM for northerly 4.3 miles plus test Topo/DTM data collection for southerly 3.5 miles to verify existing survey	
	Survey Supplemental Task											\$ 19,000.00	Includes additional geodetic control, vertical control, alignment and TOPO/DTM to complete the southerly portion of the project if/as needed (supplemental survey data collection will only proceed upon authorization from Nassau County)	
	Geotechnical											\$ 45,938.70	Includes geotechnical report for entire 7.8 miles, complete geotechnical investigation for northerly 4.3 miles plus test cores to verify the the data included in the existing geotechnical investigation for the southerly 3.5 miles.	
	Environmental - Wetland Delineation and Protected Species Assessment											\$ 5,720.00	Includes field data collection for entire project and agency reviews	
Data Collection Subtotal												\$ 141,908.70		
TASK 2- ROADWAY DESIGN ANALYSIS AND PLANS														
	Field Review / Site Visit	2	visits x	8 = 16	8	\$ 1,488.96	0	\$ -	8	\$ 992.64	0	\$ -	\$ 2,481.60	4 Hour Trips (incl travel) x two people)
	Traffic Analysis	1	analysis x	24 = 24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68	Develop design traffic volumes
	Pavement Design	2	designs x	4 = 8	2	\$ 372.24	0	\$ -	6	\$ 744.48	0	\$ -	\$ 1,116.72	In conjunction with geotec analysis
	Typical Section Design	1	design x	40 = 40	10	\$ 1,861.20	0	\$ -	26	\$ 3,226.08	4	\$ 223.36	\$ 5,310.64	Includes cross slope correction and superelevation analyses at locations where warranted
	Roadway Design Analysis	7.8	miles x	160 = 1248	312	\$ 58,069.44	0	\$ -	812	\$ 100,752.96	124	\$ 6,924.16	\$ 165,746.56	Initial design, plus revisions/updates @ 90% and Final
	Traffic Control Plan Design Analysis	7.8	miles x	14 = 110	28	\$ 5,211.36	0	\$ -	72	\$ 8,933.76	10	\$ 558.40	\$ 14,703.52	40 hours for MOT concept development, and 8 hours per mile.
	Roadway Plans Preparation													
	Key Sheet	1	sheets x	8 = 8	2	\$ 372.24	0	\$ -	6	\$ 744.48	0	\$ -	\$ 1,116.72	
	Summary of Pay Items	1	sheets x	16 = 16	4	\$ 744.48	0	\$ -	11	\$ 1,364.88	1	\$ 55.84	\$ 2,165.20	Initial development @ 60%, updates @ 90% and Final
	Typical Sections	2	sheets x	12 = 24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68	CADD work only (Preferred T.S. Developed Previously)
	General Notes	1	sheets x	12 = 12	3	\$ 558.36	0	\$ -	8	\$ 992.64	1	\$ 55.84	\$ 1,606.84	
	Summary of Quantities Sheets	45	sheets x	4 180	45	\$ 8,375.40	0	\$ -	117	\$ 14,517.36	18	\$ 1,005.12	\$ 23,897.88	Initial development @ 60%, updates @ 90% and Final - This item is for CADD work only. Actual computations included in "Quantities" task

ELTONALAN ESTIMATE OF WORK EFFORT AND FEE

CR 115 Widening and Resurfacing

Project Length (miles): 7.8

Staff Hour Totals				Staffhour Distribution										Cost Totals	
				Project Manager / Sr. Engineer		Sr. Engineer		Sr. Designer		CADD Tech / Admin					
				Raw Hourly Rates		\$60.00		\$55.00		\$40.00		\$18.00			
				Audited FDOT OH Rate: 182.00%		\$109.20		\$100.10		\$72.80		\$32.76			
				Profit Rate: 10.00%		\$16.92		\$15.51		\$11.28		\$5.08			
Loaded Labor Rates				\$186.12		\$170.61		\$124.08		\$55.84					
Tasks	Qty.	Unit	Hours per Unit	Total Hours	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Cost	Comments	
Project Layout	4	sheets x	8 =	32	8	\$ 1,488.96	0	\$ -	21	\$ 2,605.68	3	\$ 167.52	\$ 4,262.16		
Roadway Plan and Profiles	75	sheets x	4 =	300	75	\$ 13,959.00	0	\$ -	195	\$ 24,195.60	30	\$ 1,675.20	\$ 39,829.80	40 Scale Plan Sheets	
Intersection Detail Sheets	5	sheets x	16 =	80	20	\$ 3,722.40	0	\$ -	52	\$ 6,452.16	8	\$ 446.72	\$ 10,621.28	5 hrs per sheet	
Soil Survey Sheet	1	sheets x	2 =	2	1	\$ 186.12	0	\$ -	2	\$ 248.16	-1	\$ (55.84)	\$ 378.44	5 hrs per sheet	
Cross Sections	140	sheets x	1.5 =	210	53	\$ 9,864.36	0	\$ -	137	\$ 16,998.96	20	\$ 1,116.80	\$ 27,980.12	0.5 per section x 3 sections per sheet	
Erosion Control Details & Plans	75	sheets x	1 =	75	19	\$ 3,536.28	0	\$ -	49	\$ 6,079.92	7	\$ 390.88	\$ 10,007.08	Erosion control measures will be shown on the plan and profile drawings	
Traffic Control Typical and Notes	7	sheets x	8 =	56	14	\$ 2,605.68	0	\$ -	37	\$ 4,590.96	5	\$ 279.20	\$ 7,475.84		
Special Details	3	sheets x	12 =	36	9	\$ 1,675.08	0	\$ -	24	\$ 2,977.92	3	\$ 167.52	\$ 4,820.52		
Roadway Design Documentation Report	1	each x	60 =	60	15	\$ 2,791.80	0	\$ -	39	\$ 4,839.12	6	\$ 335.04	\$ 7,965.96		
Quantities	7.8	miles x	24 =	188	47	\$ 8,747.64	0	\$ -	123	\$ 15,261.84	18	\$ 1,005.12	\$ 25,014.60	Initial comps @ 60%, updates @ 90% and Final	
Cost & Contract Time Estimate	3	each x	12 =	36	9	\$ 1,675.08	0	\$ -	24	\$ 2,977.92	3	\$ 167.52	\$ 4,820.52	Initial estimate @ 60%, updates @ 90% and Final	
Technical Specifications	1	each x	24 =	24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68		
Roadway Technical Hours Sub-Total				2785											
Project Administration / Coordination	3%	x	2785 =	84	42	\$ 7,817.04	0	\$ -	0	\$ -	42	\$ 2,345.28	\$ 10,162.32	Includes coordination / meetings with Nassau County, our subs and other stakeholders if/as necessary	
QA/QC	5%	x	2785 =	140	0	\$ -	140	\$ 23,885.40	0	\$ -	0	\$ -	\$ 23,885.40	Independent QA/QC performed by subconsultant	
Roadway Total													3009	\$ 405,010.76	
TASK 3 - DRAINAGE ANALYSIS AND PLANS															
Field Review / Site Visit	2	each x	8 =	16	8	\$ 1,488.96	0	\$ -	8	\$ 992.64	0	\$ -	\$ 2,481.60	4 Hour Trips (incl travel) x two people)	
Drainage Basin Hydrology Analysis	1	each x	80 =	80	20	\$ 3,722.40	0	\$ -	52	\$ 6,452.16	8	\$ 446.72	\$ 10,621.28		
Design of Cross Drains	1	each x	24 =	24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68		
Design of Roadway Ditches	15.6	miles x	12 =	188	47	\$ 8,747.64	0	\$ -	123	\$ 15,261.84	18	\$ 1,005.12	\$ 25,014.60	12 hrs per ditch mile including the design over 150 side street and/or driveway side drain culverts	
Box Culvert Structural Design Analysis	0	each x	0	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	Sand cement endwalls for one - triple box culvert and thus no structural analysis anticipated	
Drainage Plans Preparation					0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -		
Drainage Maps	14	maps x	16 =	224	56	\$ 10,422.72	0	\$ -	146	\$ 18,115.68	22	\$ 1,228.48	\$ 29,766.88		
Special Drainage Detail Sheets	1	each x	16 =	16	4	\$ 744.48	0	\$ -	11	\$ 1,364.88	1	\$ 55.84	\$ 2,165.20	Detailed grading around box culvert replacement	
Summary of Drainage Structures Sheets	2	each x	16 =	32	8	\$ 1,488.96	0	\$ -	21	\$ 2,605.68	3	\$ 167.52	\$ 4,262.16		
Ret/Det Pond Detail Sheets	0	each x		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	None anticipated	
Drainage Design Documentation Report	1	each x	60 =	60	15	\$ 2,791.80	0	\$ -	39	\$ 4,839.12	6	\$ 335.04	\$ 7,965.96		
Drainage Technical Hours Sub-Total				640											
Project Administration / Coordination	3%	x	640 =	20	10	\$ 1,861.20	0	\$ -	0	\$ -	10	\$ 558.40	\$ 2,419.60	Includes coordination / meetings with Nassau County, our subs and other stakeholders if/as necessary	
QA/QC	5%	x	640 =	32	0	\$ -	32	\$ 5,459.52	0	\$ -	0	\$ -	\$ 5,459.52	Independent QA/QC performed by subconsultant	
Drainage Total													692	\$ 93,370.48	

ELTONALAN ESTIMATE OF WORK EFFORT AND FEE

CR 115 Widening and Resurfacing

Project Length (miles): 7.8

Tasks	Staff Hour Totals				Staffhour Distribution								Cost Totals	Comments		
					Project Manager / Sr. Engineer		Sr. Engineer		Sr. Designer		CADD Tech / Admin					
					Raw Hourly Rates		\$60.00		\$55.00		\$40.00				\$18.00	
					Audited FDOT OH Rate: 182.00%		\$109.20		\$100.10		\$72.80				\$32.76	
	Profit Rate: 10.00%		\$16.92		\$15.51		\$11.28		\$5.08							
Loaded Labor Rates		\$186.12		\$170.61		\$124.08		\$55.84								
Qty.	Unit	Hours per Unit	Total Hours	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Cost				
TASK 4 - SIGNING AND PAVEMENT MARKING ANALYSIS AND PLANS																
Field Review / Site Visit	1	each	x 8 = 8	4	\$ 744.48	0	\$ -	4	\$ 496.32	0	\$ -	\$ 1,240.80	4 Hour Trips (incl travel) x two people			
SAPM Analysis	7.8	miles	x 12 = 94	24	\$ 4,466.88	0	\$ -	62	\$ 7,692.96	8	\$ 446.72	\$ 12,606.56				
No Passing Zone Study	7.8	miles	x 6 = 47	12	\$ 2,233.44	0	\$ -	31	\$ 3,846.48	4	\$ 223.36	\$ 6,303.28	8 hrs per mile for data collection, analysis and report			
SAPM Plans				0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -				
Key Sheet	1	each	x 4 = 4	1	\$ 186.12	0	\$ -	3	\$ 372.24	0	\$ -	\$ 558.36				
Tabulation of Quantities	1	each	x 12 = 12	3	\$ 558.36	0	\$ -	8	\$ 992.64	1	\$ 55.84	\$ 1,606.84				
General Notes	1	each	x 12 = 12	3	\$ 558.36	0	\$ -	8	\$ 992.64	1	\$ 55.84	\$ 1,606.84				
Plan Sheets	2	each	x 12 = 24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68	Typical Striping Plans			
Special Details	5	each	x 8 = 40	10	\$ 1,861.20	0	\$ -	26	\$ 3,226.08	4	\$ 223.36	\$ 5,310.64	Intersection Details			
SPM Technical Hours Sub-Total				241												
Project Administration / Coordination	3%	x	241 = 8	4	\$ 744.48	0	\$ -	0	\$ -	4	\$ 223.36	\$ 967.84	Includes coordination / meetings with Nassau County, our subs and other stakeholders if/as necessary			
QA/QC	5%	x	241 = 13	0	\$ -	13	\$ 2,217.93	0	\$ -	0	\$ -	\$ 2,217.93	Independent QA/QC performed by subconsultant			
Signing / Pavement Marking Total				262								\$ 35,632.77				
TASK 5 - Utility Coordination																
Utility Contacts (Letters)	11	each	x 2 = 22	0	\$ -	0	\$ -	0	\$ -	22	\$ 1,228.48	\$ 1,228.48	Alltel, FPL, Quest, Comcast, Williams, Okeefeenokee, Windstream, MCI, AT&T, Southern Gas, Level 3			
Utility Relocation Plans	30	sheets	x 2 = 60	15	\$ 2,791.80	0	\$ -	39	\$ 4,839.12	6	\$ 335.04	\$ 7,965.96	100 Scale			
Utility Coordination / followup	11	each	x 2 = 22	11	\$ 2,047.32	0	\$ -	11	\$ 1,364.88	0	\$ -	\$ 3,412.20	Includes utility plans research and coordinating with "Sunshine One Call"			
Utility Certification	11	each	x 1 = 11	11	\$ 2,047.32	0	\$ -	0	\$ -	0	\$ -	\$ 2,047.32				
Utility CoordinationTotal				115								\$ 14,653.96				
TASK 6 - ENVIRONMENTAL PERMITTING																
SJRWMD Permitting (wetlands only)	1	each	x 24 = 24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68	Wetlands (no protected species permitting anticipated)			
USACOE Permitting	1	each	x 24 = 24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68	Wetlands			
Stormwater Permitting (Documentation / application for exemption)	1	each	x 40 = 40	10	\$ 1,861.20	0	\$ -	26	\$ 3,226.08	4	\$ 223.36	\$ 5,310.64				
Permit Meetings	4	each	x 4 = 16	8	\$ 1,488.96	0	\$ -	8	\$ 992.64	0	\$ -	\$ 2,481.60	2 Mtgs Each with SJRWMD, USACOE @ 4 Hrs each incl 2 attendees , preparation and minutes			
Permitting Total				104								\$ 14,219.60		\$7,619.60		
TASK 7 - BID PHASE SERVICES																
Development of Final Bid Package	1	each	x 16 = 16	4	\$ 744.48	0	\$ -	11	\$ 1,364.88	1	\$ 55.84	\$ 2,165.20				
Contractor inquiry response, pre-bid mtg attendance, bid review and recommendation	1	each	x 24 = 24	6	\$ 1,116.72	0	\$ -	16	\$ 1,985.28	2	\$ 111.68	\$ 3,213.68				
Bid Phase Services Total				40								\$ 5,378.88				
TOTAL LUMP SUM AMOUNT (Tasks 1-7 above)												\$ 710,175.15	Total Lump Sum Amount			

ELTONALAN ESTIMATE OF WORK EFFORT AND FEE

CR 115 Widening and Resurfacing

Project Length (miles): 7.8

Project Length (miles): 7.8																
Tasks	Staff Hour Totals				Staffhour Distribution								Cost Totals	Comments		
					Project Manager / Sr. Engineer		Sr. Engineer		Sr. Designer		CADD Tech / Admin					
					Raw Hourly Rates		\$60.00		\$55.00		\$40.00				\$18.00	
					Audited FDOT OH Rate: 182.00%		\$109.20		\$100.10		\$72.80				\$32.76	
					Profit Rate: 10.00%		\$16.92		\$15.51		\$11.28				\$5.08	
	Loaded Labor Rates				\$186.12		\$170.61		\$124.08		\$55.84					
	Qty.	Unit	Hours per Unit	Total Hours	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Cost			
Limiting Amount Tasks:																
TASK 8 - POST DESIGN SERVICES																
	Post Design Services				20	\$ 3,722.40	0	\$ -	8	\$ 992.64	8	\$ 446.72	\$ 5,161.76			
TOTAL LIMITING AMOUNT (Task 8 above)													\$ 5,161.76	Total Limiting Amount		
TOTAL CONTRACT AMOUNT (Tasks 1-8 above)													\$ 715,336.91	Total Contract Amount		

GENERAL INFORMATION AND MINIMUM INSURANCE REQUIREMENTS

COMMERCIAL GENERAL LIABILITY INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Commercial General Liability insurance coverage (ISO or comparable Occurrence Form) for the life of this Contract. Modified Occurrence or Claims Made forms are not acceptable.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	\$1,000,000
Personal & Advertising Injury Limit	\$1,000,000
Fire Damage Limit (any one fire)	\$ 300,000
Medical Expense Limit (any one person)	\$ 10,000
Products & Completed Operations Aggregate Limit	\$2,000,000
General Aggregate Limit (other than Products & Completed Operations) Applies Per Project	\$2,000,000

General liability coverage shall continue to apply to "bodily injury" and to "property damage" occurring after all work on the Site of the covered operations to be performed by or on behalf of the additional insureds has been completed and shall continue after that portion of "your work" out of which the injury or damage arises has been put to its intended use.

WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Workers' Compensation and Employer's Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Part One – Workers' Compensation Insurance – Unlimited
Statutory Benefits as provided in the Florida Statutes and

Part Two – Employer's Liability Insurance

Bodily Injury By Accident	\$500,000 Each Accident
Bodily Injury By Disease	\$500,000 Policy Limit
Bodily Injury By Disease	\$500,000 Each Employee

*If leased employees are used, policy must include an Alternate Employer's Endorsement

AUTOMOBILE LIABILITY INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Automobile Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Combined Single Limit – Each Accident	\$1,000,000
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Covered Automobiles shall include any auto owned or operated by the insured Contractor, insured Sub-subcontractor including autos which are leased, hired, rented or borrowed, including autos owned by their employees which are used in connection with the business of the respective Contractor or Sub-subcontractor.

UMBRELLA INSURANCE

The Contractor shall purchase and maintain at the Contractor's expense Umbrella Liability (Umbrella Form) insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	\$1,000,000
Aggregate Limit	\$1,000,000

PROFESSIONAL LIABILITY (ERRORS & OMISSIONS)

This additional coverage will be required for all projects involving consultants, engineering services, architectural or design/build projects, independent testing firms and similar exposures.

The Contractor shall purchase and maintain at the Contractor's expense Professional Liability insurance coverage for the life of this Contract.

If the contract includes a requirement for Professional Liability or Errors and Omissions insurance, the minimum amount of such insurance shall be as follows:

Each Occurrence/Annual Aggregate	\$1,000,000
Project Specific OR	
Each Occurrence/Annual Aggregate	\$1,000,000 / \$3,000,000

Design Professional Liability coverage will be provided on an Occurrence Form or a Claims Made Form with a retroactive date to at least the first date of this Agreement. If provided on a Claims Made Form, the coverages must respond to all claims reported within three years following the period for which coverage is required and which would have been covered had the coverage been on an occurrence basis.

ENVIRONMENTAL LIABILITY INSURANCE

This additional coverage will be required by any Contractor performing environmental and/or other investigations involving excavation, drilling, or other site disturbance activities.

The Contractor shall purchase and maintain at the Contractor's expense Environmental Liability insurance (Contractors Pollution Liability) coverage for the life of this Contract.

The Limits of insurance shall not be less than the following limits: \$1,000,000 Each Loss/Aggregate

Such Coverage will include bodily injury, sickness, and disease, mental anguish or shock sustained by any person, including death; property damage including physical injury to destruction of tangible property including resulting loss of use thereof, cleanup costs, and the loss of use of tangible property that has not been physically injured or destroyed; defense including costs charges and expenses incurred in the investigation, adjustment or defense of claims for such compensatory damages; coverage for losses caused by pollution conditions that arises from the operations of the contractor including transportation.

BUILDERS RISK OR INSTALLATION FLOATER

This additional coverage will be required if the contract includes construction of or additions to above-ground buildings or structures, or installation of machinery or equipment.

The minimum amount of insurance shall be 100% of the completed value of such addition(s), building(s), or structure(s), or the installed replacement cost of value.

Contractor shall require each of his Subcontractors to likewise purchase and maintain at their expense Commercial General Liability insurance, Workers' Compensation and Employer's Liability coverage, Automobile Liability insurance, Umbrella Liability Professional Liability, Environmental Liability, Builders Risk or Installation Floater (as applicable) insurance coverage meeting the same limit and requirements as the Contractors insurance.

Certificates of Insurance acceptable to Nassau County Board of County Commissioners for the Contractor's insurance must be received within five (5) days of Notification of Selection and at time of signing Agreement.

Certificates of Insurance and the insurance policies required for this Agreement shall contain an endorsement that coverage afforded under the policies will not be cancelled or allowed to expire until at least thirty (30) days prior written notice has been given to Nassau County Board of County Commissioners.

Certificates of Insurance and the insurance policies required for this Agreement will include a provision that policies, except Workers' Compensation and Professional Liability, are primary and noncontributory to any insurance maintained by the Contractor.

Nassau County Board of County Commissioners must be named as an Additional Insured and endorsed onto the Commercial General Liability (CGL), Auto Liability and Umbrella Liability policy (ies). A copy of the endorsement(s) must be supplied to Nassau County Board of County Commissioners ten (10) days following the execution of the agreement or prior to the first date of services, whichever comes first.

CGL policy Additional Insured Endorsement must include Ongoing and Completed Operations (Form CG2010 11 84 **OR** Form CG2010 04 13 and GC2037 04 13 edition or equivalent). Other Additional Insured forms might be acceptable but only if modified to delete the word "ongoing" and insert the sentence "Operations include ongoing and completed operations".

CGL policy shall not be endorsed with Exclusion - Damage to Work performed by Subcontractors on Your Behalf (CG2294 or CG2295)

CGL policy shall not be endorsed with Contractual Liability Limitation Endorsement (CG2139) or Amendment of Insured Contract Definition (CG 2426)

CGL policy shall not be endorsed with Exclusion - Damage to Premises Rented to you (CG 2145)

CGL policy shall include broad form contractual liability coverage for the Contractors covenants to and indemnification of the Authority under this Contract

Certificates of Insurance and the insurance policies required for this Agreement shall contain a provision under General Liability, Auto Liability and Workers' Compensation to include a Waiver of Subrogation clause in favor of Nassau County Board of County Commissioners.

All Certificates of Insurance shall be dated and shall show the name of the insured Contractor, the specific job by name and job number, the name of the insurer, the policy number assigned its effective date and its termination date and a list of any exclusionary endorsements.

All Insurers must be authorized to transact insurance business in the State of Florida as provided by Florida Statute 624.09(1) and the most recent Rating Classification/Financial Category of the insurer as published in the latest edition of "Best's Key Rating Guide" (Property-Casualty) must be at least A- or above.

All of the above referenced Insurance coverage is required to remain in force for the duration of this Agreement and for the duration of the warranty period. Accordingly, at the time of submission of final application for payment, Contractor shall submit an additional Certificate of Insurance evidencing continuation of such coverage.

If the Contractor fails to procure, maintain or pay for the required insurance, Nassau County Board of County Commissioners shall have the right (but not the obligation) to secure same in the name of and for the account of Contractor, in which event, Contractor shall pay the cost thereof and shall furnish upon demand, all information that may be required to procure such insurance. Nassau County Board of County Commissioners shall have the right to back-charge contractor for the cost of procuring such insurance. The failure of Nassau County Board of County Commissioners to demand certificates of insurance and endorsements evidencing the required insurance or to identify any deficiency in contractors coverage based on the evidence of insurance provided by the contractor shall not be construed as a waiver by Nassau County Board of County Commissioners of contractor's obligation to procure, maintain and pay for required insurance.

The insurance requirements set forth herein shall in no way limit Contractors liability arising out of the work performed under the Agreement or related activities. The inclusions, coverage and limits set forth herein are minimum inclusion, coverage and limits. The required minimum policy limits set forth shall not be construed as a limitation of Contractor's right under any policy with higher limits, and no policy maintained by the Contractor shall be construed as limiting the type, quality or quantity of insurance coverage that Contractor should maintain. Contractor shall be responsible for determining appropriate inclusions, coverage and limits, which may be in excess of the minimum requirements set forth herein.

If the insurance of any Contractor or any subcontractor contains deductible(s), penalty(ies) or self-insured retention(s), the Contractor or Subcontractor whose insurance contains such provision(s) shall be solely responsible for payment of such deductible(s), penalty(ies) or self-insured retention(s).

The failure of Contractor to fully and strictly comply at all times with the insurance requirements set forth herein shall be deemed a material breach of the Agreement.