City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
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ONE CITY ONE JACKSONVILLE

March 19, 2018

TO: Gregory W. Pease, Chairman
Professional Services Evaluation Committee

THRU: John P. Pappas, P.E.
Director

FROM: William J. Joyce, P.E.
Director of Operations

Tom Fallin, P. E.
Chief, Engineering and Construction Management Division

SUBJECT: P-13-17 Professional Design Services for Alden Road Connector Roadway & Bridge
PWSD114FAIR-06505-PW0813-01

The Engineering Division has negotiated with the consultant selected for Professional Services for Alden Road Connector Roadway & Bridge, resulting in the attached Scope of Services, Exhibit A and Contract Fee Schedule, Exhibit B. MBE firms to be utilized to meet the 20% Participation Percentage Plan for this contract are detailed on a separate attachment.

Accordingly, this is to recommend that the City of Jacksonville enter into a contract with STV, Incorporated for Professional Design Services for Alden Road Connector Roadway & Bridge, that includes the attached Scope of Services identified as Exhibit "A" and Fee Schedule identified as Exhibit "B", to provide a lump sum amount for PD&E Study in the amount of $343,819.20 and not to exceed limits for: Geotechnical Services in the amount of $48,194.13, survey in the amount of $32,191.63, Environmental Services in the amount of $9,410.98, Noise Impact Study in the amount of $11,105.19, Traffic Analysis in the amount of $41,563.86, Cultural Resource Analysis in the amount of $3,944.79 and Level 1 Contamination Screening in the amount of $10,463.06, with a maximum indebtedness to the City in the amount of $500,692.84 and with an expiration date of Project Completion. All other terms and conditions are as provided in the RFP and the City's standard contract language.

TF/lw

Attachment: Exhibits A & B
MBE Participation

cc: Lori West, Contract Specialist

Exhibit A

SCOPE OF SERVICES
ALDEN ROAD CONNECTOR ROADWAY AND BRIDGE PROJECT
PD&E STUDY PHASE

1.0 PURPOSE:

The purpose of this contract is for STV Incorporated (CONSULTANT) to evaluate, design and construct a bridge to connect west and east sections of Alden Road over Cedar Swamp Creek (from St. Johns Bluff to Kernan Blvd) for the City of Jacksonville (COJ). This contract includes three potential phases:

1. PD&E Study Phase
2. Design Phase
3. Construction Phase

This scope of services incorporates only necessary tasks to complete the PD&E Study phase of the contract. Work on additional phases may begin upon authorization from COJ which will be negotiated separately. The PD&E Phase will be subdivided into three (3) stages:

1. Traffic Operations Study
2. Kick Off Public Meeting
3. Alternative Analysis

2.0 OBJECTIVE:

The CONSULTANT shall establish alternatives and alignments, in consultation with COJ, to be analyzed and documented in the PD&E Study. The CONSULTANT is to study alternatives that minimize impacts to the natural, social, cultural and physical environments. The study will be developed to sufficient detail that alternatives can be quantified and cost estimated.

The CONSULTANT, in consultation with COJ, will solicit input from the public regarding the project's purpose, need, studied alternatives, and selected alternatives.

2.1 Schedule:

The CONSULTANT will develop a detailed project activity/event schedule for PD&E Stage 1. Subsequent schedules for PD&E Stages 2 and 3 will be produced if warranted.

2.2 Submittals:

The CONSULTANT shall furnish required study documentation to adequately control, coordinate, and approve work. The CONSULTANT shall distribute submittals electronically. The COJ Project Manager will determine the specific number of copies to be submitted.

2.3 **Provisions for Work**:

All maps, plans, reports, and designs are to be prepared with English values in accordance with all applicable criteria.

3.0 WORK TASKS, SERVICES, AND DELIVERABLES:

The work will be controlled via the project schedule. The activities necessary to meet the project schedule will be approved by the COJ Project Manager; however it is the responsibility of the CONSULTANT to advise the COJ Project Manager on those activities the CONSULTANT determines are necessary to deliver a comprehensive PD&E Study. These include activities to be performed by the CONSULTANT, COJ, and other consultants.

3.1 **Project Development and Environment (PD&E) Study Support**:

The CONSULTANT will support COJ in the PD&E Study for the construction of the Alden Road Bridge over Cedar Swamp Creek. The associated services and deliverables are summarized below. Appendix A has been attached to provide more details of the summary below. The PD&E Phase will be subdivided into three (3) stages:

1. Traffic Operations Study
2. Kick Off Public Meeting
3. Alternative Analysis

The scope of services for these stages is detailed below

PD&E STAGE 1: Traffic Operations Study: The purpose of this stage is to evaluate roadway improvements that will improve the operational level of service in the Kernan Blvd/St. Johns Bluff/Atlantic Blvd/Beach Blvd area for the design year. Evaluated improvements include the construction of an east-west connector bridge, signalization adjustments, intersection improvements, and local roadway improvements. If the traffic operations study indicates that the construction of an east-west connector bridge is not warranted, the project will not continue to PD&E Stage 2.

Tasks:

- *Traffic Data Collection*
  - 24 Hours Average Daily Traffic Counts (bi-directional) (sub-consultant)
  - Manual Turning Movement Counts (AM and PM Peak Hours) (sub-consultant)
  - Existing Signal Timings
- *Traffic Modeling* using NERPM A-B Model
- *Field Review*
- *Agency Coordination*

Deliverables:

- DRAFT and FINAL Traffic Analysis Report

PD&E STAGE 2: Kick Off Public Meeting: The purpose of this stage is publically present the east-west connector bridge concept, gather input, and assess public support. If the public meeting indicates that there is not sufficient public support, COJ can discontinue the project at their discretion. COJ staff will organize and execute the Kick Off Public Meeting efforts. The CONSULTANT will support COJ's efforts.

Support Tasks:

- *Procure, furnish, and install three (3) portable variable message signs. Signs will be installed one (1) week in advance of the Kick Off Public Meeting.*
- *Produce two displays showing conceptual vertical and horizontal alignments*
- *Attend Kick Off Public Meeting (3 staff)*
- *Participate in evaluation of public input*

PD&E STAGE 3: Field Investigations and Engineering Analysis: The purpose of this PD&E Stage is to evaluate east-west connector bridge alternatives and alignments, in consultation with COJ. The CONSULTANT will evaluate alternatives that minimize impacts to the natural, social, cultural and physical environments. The study will be developed to sufficient detail that alternatives can be quantified and cost estimated. Results will be documented for COJ review. The following details field investigations, engineering services, and deliverables for PD&E Stage 3.

GEOTECHNICAL SERVICES

Services:

- *Field Exploration*
  - Roadway: Two (2) 15' deep Standard Penetration Test (SPT) borings
  - Bridge: Three (3) 100' deep SPT Borings
- *Laboratory Testing*
- *Engineering/Support Services* to provide preliminary engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction.

Deliverables:

- DRAFT and FINAL Geotechnical Analysis Report

DESIGN SURVEY SERVICES

Project Control:

- *Establish Horizontal Control*
- *Establish Vertical Control*

Field Data Gathered:

- *Establish Existing Alignments* (east and west of Cedar Swamp Creek)
- *Establish Existing Centerline Ground Profile utilizing COJ LiDAR*

- *Drainage Survey* that includes pipe sizes, inverts, pond control structures and water elevations (6 locations), and pump station and drainage pipe for flood management pond.
- *Establish Ordinary Highwater Marks* (Cedar Swamp Creek)
- *Soil Boring Locations* (5)
- *Specimen Tree Locations* (not a full COJ tree survey)

SUBSURFACE UTILITY ENGINEERING SERVICES (ADDITIONAL DETAILS IN APPENDIX A)

- *Level B Utility Designation* (from Coachman Lakes Drive to Watkins Glen Lane)

ENGINEERING SERVICES

Tasks:

- *Purpose and Need Development*
- *Data Collection* of existing documentation pertaining and related, but not limited to permits, as-builts, planning documentation, traffic characteristics, environmental characteristics, and safety characteristics.
- *Establish Design Controls and Criteria* for roadway, bridge and corresponding elements. Design controls include:
  - Functional Classification
  - Access management class
  - Design speed
  - Capacity and Level of Service (LOS)
  - Project Traffic
  - Design vehicle
  - Pedestrian and bicycle requirements
  - Physical constraints
  - Environmental constraints
  - Stormwater management network type
  - Navigational requirements
  - Design high water
- *Existing Conditions Analysis*
- *Alternative Analysis* including the following alternatives
  - No-Build to serve as a baseline against which the Build Alternatives are evaluated
  - Transportation System Management and Operations Alternative to provide short-term improvements to surrounding infrastructure that would reduce and/or remove the need for constructing Build Alternatives.
  - Build Alternatives that minimize impacts to the surrounding environment including:
    - Three (3) horizontal alignments with typical section (selected following the traffic analysis results)

- One (1) vertical alignment (with all earth cut to the west)
- Three (3) bridge types (all analyzed bridge types shall be concrete)

Build Alternatives will consider requirements, impacts, and accommodations for:

- Pedestrians and Bicycles
- Traffic Operations
- Stormwater Management
- Drainage
- Trees and Landscaping
- Bridge Hydraulics
- Utilities
- Constructability
- Encroachments due to Construction
- Right-of-Way

- *Comparative Alternatives Evaluation and Analysis* to objectively compare all evaluated alternatives. The following metrics will be compared:
  - **Project Costs** associated with R/W acquisition, construction, and environmental mitigation
  - **Socio-Economic Environment** impacts to adjacent businesses and residences; near-by places of worship, cemeteries, schools, medical centers, emergency services.
  - **Cultural Environment** impacts to historic sites, archaeological sites, and recreational sites based upon a desktop analysis only.
  - **Natural Environment** impacts to wetlands, protected species, protected habitat, and floodplains.
  - **Physical Environment** impacts including contamination sites, hazardous material sites, noise receptors, utilities, pedestrian and bicycle traffic.
  - **Traffic Operations and Safety** impacts
- *Recommended Alternatives Selection*

Deliverables:

- DRAFT and FINAL Preliminary Engineering and Comparative Analysis Report
- DRAFT and FINAL Location Hydraulics Report (LHR)
- DRAFT and FINAL Preliminary Bridge Development Report (BDR)
- DRAFT and FINAL Natural Resource Evaluation (NRE)
- DRAFT and FINAL Contamination Screening Evaluation Report (CSER)
- DRAFT and FINAL Noise Impact Analysis Report
- Cultural Resources Assessment Memo
- Conceptual Plans of Recommended Alternative
- US Coast Guard Questionnaire and Concurrence Letter

PUBLIC INVOLVEMENT

Tasks:

- *Support COJ for Concept Presentation Meetings* including:
  - Presentations to Jacksonville City Council and North Florida TPO (includes associated technical and citizen committees, as applicable) (three (3) anticipated)
  - Public Hearing (one (1) anticipated)

4.0 PROJECT REQUIREMENTS:

4.1 Liaison Office

The COJ and the CONSULTANT will designate a Liaison Office and a Project Manager who shall be the representative of their respective organizations for the project. While it is expected the CONSULTANT shall seek and receive advice from various state, regional, and local agencies, the final direction on all matters of this project remain with the COJ Project Manager.

4.2 Progress Reporting

The CONSULTANT shall meet with COJ as required and shall provide monthly progress reports that describe the work performed on each activity. Progress and schedule status reports shall be delivered to COJ as directed by COJ. The Project Manager will make judgment on whether work of sufficient quality and quantity has been accomplished.

4.3 Quality Control

COJ shall be responsible for insuring that all work products conform to COJ standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall insure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work.

Prior to submittal of the first invoice, the CONSULTANT shall submit to the COJ's Project Manager for approval the proposed method or process of providing Quality Control for all work products. The Quality Control Plan shall identify the products to be reviewed, the personnel who perform the reviews, and the method of documentation.

4.4 Professional Endorsement

The CONSULTANT shall have a Registered Professional in the State of Florida sign (and seal as required) all reports, documents, and plans.

4.5 Computer Automation

Engineering drawings will be developed utilizing MicroStation Computer Aided Drafting and Design (CADD) software which can be converted to AutoCAD at the request of COJ.

4.6 Coordination with other Consultants

The CONSULTANT is to coordinate the work with any and all adjacent and integral consultants to produce homogenous documentation.

4.7 Optional Services

At COJ's option, the CONSULTANT may be requested to provide optional services. The fee for these services shall be negotiated in accordance with the terms of the executed contract, Method of Compensation, for a fair, competitive and reasonable cost, considering the scope and complexity of the service(s) requested. A supplemental agreement adding the additional services shall be executed in accordance with COJ Procurement policy as established in the original contract.

5.0 FEES

Total fees and fees for each firm for the aforementioned services are shown:

1. **Traffic Operations Study: $57,974.10 (Total Fee)**
   a. STV: $16,410.24
   b. Peters & Yaffee: $41,563.86
2. **Kick Off Public Meeting: $21,261.61 (Total Fee)**
   a. STV: $21,261.61
3. **Alternative Analysis: $421,457.13 (Total Fee)**
   a. STV: $306,147.13
   b. CSI-Geo: $48,194.13
   c. DRMP: $32,191.63
   d. ERS: $9,410.98
   e. ETP: $11,105.19
   f. SEARCH: $3,944.79
   g. Terracon: $10,463.06

A breakdown of the work effort associated with these fees is provided in Appendix A of this scope. Subconsultant fees will be performed as required on a reimbursable basis.

6.0 SERVICES TO BE PERFORMED BY COJ

COJ will provide the following services and materials as indicated below:

- Conceptual Presentation Meeting organization and execution (includes but not limited to Kick Off Public Meeting, MPO Meeting, City Council Meeting, Citizen Committee meetings, Public Hearing)
- Project related data currently on file
- LiDAR

- As-builts for adjacent communities
- Existing Roadway Plans
- Existing R/W maps
- All utility information on file
- Regional stormwater and flood management plans, permits, calculations, and design documentation on file.
- All future information that becomes available such as utility permits, R/W permits, tree permits, subdivision plans.

Exhibit B

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL

1. Project Alden Road Connector Roadway and Bridge Project (PD&E Phase)	2. Proposal Number COJ P-13-17
3. Name of Consultant STV Incorporated	4. Date of Proposal 3/2/2018

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$63.87	399	$25,484.13	
Principal	$98.04	73	$7,156.92	
Chief Engineer	$78.25	122	$9,546.50	
Senior Engineer	$58.20	257	$14,957.40	
Design Engineer	$41.33	575	$23,764.75	
Designer	$40.66	334	$13,580.44	
CADD/Computer Tech	$26.93	366	$9,856.38	
Engineering Intern	$29.49	480	$14,155.20	
Clerical	$20.45	88	$1,799.60	
TOTAL DIRECT LABOR		2,694	Hours	$120,301.32
6. Overhead (Combined Fringe Benefit & Administrative)			156%	$187,670.06
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$307,971.38
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$30,797.30

PART III - OTHER COSTS

9. Miscellaneous Direct Costs			
PCMS Boards (3)	$	3,670.68	
Public Meeting Materials	$	1,379.84	
	$		
	$		
MISCELLANEOUS DIRECT COSTS SUB-TOTAL			$5,050.52
10. SUBCONTRACTS (Lump Sum)			
	$		
	$		
SUB-CONTRACT SUB-TOTAL			$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)			$343,819.20
11. REIMBURSABLE COSTS (Limiting Amount)			
Geotechnical Services (CSI Geo)	$	48,194.13	
Surveying (DRMP)	$	32,191.63	
Environmental Services (ERS)	$	9,410.98	
Noise Impact Study (ETP)	$	11,105.19	
Traffic Analysis (Peters & Yaffee)	$	41,563.86	
Cultural Resource Analysis (SEARCH)	$	3,944.79	
Level 1 Cont. Screening (Terracon)	$	10,463.06	
SUB-TOTAL REIMBURSABLES			$156,873.64

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$500,692.84**

EBO FORM 1
SCHEDULE OF SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

Name of Proposer: **STV Incorporated**

Project Title: **Alden Road Connector Roadway and Bridge Project (PD&E Phase)**

Proposal Number: **P-13-17** Total Base Proposal Amount (if applicable): **$500,692.84**

***Please list all JSEBs first**

Full Company Name	JSEB Category (African-American, Women, Asian, Native American, Non-MBE or Hispanic)	Type of Work to be Performed	Total Contract Value or Percentage
CSI Geo, Inc.	African-American	Geotechnical Investigations	**$48,194.13**
Environmental Resource Solutions Inc.	Woman	Environmental Investigations	**$9,410.98**
Peters & Yaffee	African-American	Traffic Study	**$41,563.86**
DRMP Inc.	Non-MBE	Topo Survey & SUE	**$32,191.63**
Environmental Transportation Planning, LLC	Non-MBE	Noise Study	**$11,105.19**
SEARCH Inc.	Non-MBE	Cultural Resource Evaluation	**$3,944.79**
Terracon Consultants Inc.	Non-MBE	Contamination Screening	**$10,463.06**

Attach additional list of subcontractors/sub-consultants as needed

CONSULTANT/SUBCONTRACTOR/SUPPLIER TOTAL VALUES	
African-American Participation Total	**$89,758.00 (18%)**
Hispanic-American Participation Total	
Native-American Participation Total	
Asian-American Participation Total	
Woman Participation Total	**$9,410.98 (2%)**
Non-MBE Participation Total	**$401,523.86 (80%)**

The undersigned will enter into a formal Agreement with the JSEB Suppliers/Consultants/Subcontractors identified herein for work listed in this schedule conditioned upon execution of a contract with the City of Jacksonville. Under penalties of perjury I declare that I have read the foregoing conditions and instructions and the facts are true to the best of my knowledge and beliefs.

Signature of Proposer: J. Keith Jackson Title: STV Project Manager Date: March 2, 2018

Print Name: J. Keith Jackson, P.E.

APPENDIX A

SCOPE OF SERVICE DETAILS

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

COJ Project ID Number	P-13-17
STV Log Number	0063389
Project Description:	Alden Road Connector Bridge Project PD&E Stage 1 (Traffic Operations Study)
Consultant Name:	STV Incorporated
STV Project Manager:	J. Keith Jackson, PE
COJ Project Manager:	Gary Goldsberry, PE

Prepared By: [ ] **COJ** [X] **Consultant** [ ] **Final**

Project Length 0.663 **Miles**

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

Name of Prime Consultant: STV Incorporated

Alden Road Connector Bridge Project PD&E Stage 1 (T

P-13-17

		Project Staff Hours Summary for Entire PD&E Team													
Activity No.	**Activity**	**STV Incorporated**	CSI Geo	DRMP	ERS	ETP	Peters & Yaffee	SEARCH	Terracon						**Total Hours**
2	Project Description and Objectives	75													75
3	Public Involvement	0													0
4	Engineering Analysis & Report	40					326								366
5	Environmental Analysis & Reports	0													0
6	Environmental Document	0													0
8	Design Services	0													0
Project Total		**115**	**0**	**0**	**0**	**0**	**326**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**441**

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

COJ Project ID Number: P-13-17

Project Name: Alden Road Connector Bridge Project PD&E Stage 1 (Traffic (

STV Log Number: 0063389

Date: 3/2/2018

Name of Consultant: STV Incorporated

WORK ACTIVITY	Hours from "Summary" sheet Firm Total	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS RANGE		ON CADD
		Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer			
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			PERCENT
Project Description and Objectives	75	45	4	0	4	0	0	0	0	23	0	0	0	76	84	
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engineering Analysis & Report	40	6	2	2	4	6	6	6	8	0	0	0	0	40	44	
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	115	51	6	2	8	6	6	6	8	23	0	0	0	**116**	**128**	
													FIRM TOTAL	**116**	**128**	

Notes:
1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
3. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Field Survey Estimate:
4-man crew days

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

COJ Project ID Number: P-13-17

Project Name: Alden Road Connector Bridge Project PD&E Stage 1 (Traffic (

STV Log Number: 0063389

Date: 3/2/2018

Name of Consultant: STV Incorporated

Staff Hour Distribution Percentages - Firm Total

	Hours from "Summary" sheet Firm Total	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer	Total
Project Description and Objectives	75	60.0%	5.0%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	30.0%	0.0%	0.0%	0.0%	100.00%
Public Involvement	0	25.0%	5.0%	5.0%	10.0%	15.0%	0.0%	15.0%	15.0%	10.0%	0.0%	0.0%	0.0%	100.00%
Engineering Analysis & Report	40	15.0%	5.0%	5.0%	10.0%	15.0%	15.0%	15.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Environmental Analysis & Reports	0	80.0%	5.0%	0.0%	5.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Design Services	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Alden Road Connector Bridge Project PD&E Stage 1 (Traffic Operations Study)

COJ Project ID Number: P-13-17

STV Log Number: 0063389

Consult. Name: STV Incorporated

Consult. No.

Date: 3/2/2018

Estimator: J. Keith Jackson, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$63.87	$98.04	$78.25	$58.20	$41.33	$40.66	$26.93	$29.49	$20.45	$41.90	$56.71	$26.88			
Project Description and Objectives	75	45	4	0	4	0	0	0	0	23	0	0	0	76	$3,969	$52.23
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Engineering Analysis & Report	40	6	2	2	4	6	6	6	8	0	0	0	0	40	$1,858	$46.45
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	115	51	6	2	8	6	6	6	8	23	0	0	0	116		
Total Staff Cost		$3,257.37	$588.24	$156.50	$465.60	$247.98	$243.96	$161.58	$235.92	$470.35	$0.00	$0.00	$0.00		**$5,827.50**	**$50.24**
														Check	$5,827.50	

Survey Field Days by Subconsultant

3 - Person Crew Days: 16 Days (Survey)/2 Days (SUE)

SALARY RELATED COSTS:				$5,827.50
OVERHEAD:		156.00%		$9,090.90
PROFIT:		10.00%		$1,491.84
SALARY RELATED SUBTOTAL:				**$16,410.24**
Survey (Field - if by Prime)	0.00	4-man crew day: $ -	/ day	$0.00
SUBTOTAL - PRIME				**$16,410.24**
Subconsultant: CSI Geo				N/A
Subconsultant: DRMP				N/A
Subconsultant: ERS				N/A
Subconsultant: ETP				N/A
Subconsultant: Peters & Yaffee				$41,563.86
Subconsultant: SEARCH				N/A
Subconsultant: Terracon				N/A
GRAND TOTAL ESTIMATED FEE:				**$57,974.10**

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 1 (Traffic Operations Study)
P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
2.2	**Project Requirements and Provisions for Work**					
	2.2.6 Meetings and Presentations	*LS*	*1*	*5*	*5*	*see table below*
	2.2.9 Schedule	*LS*	*1*	*6*	*6*	*Includes hours to develop initial Stage 1 schedule and monthly update schedules. Schedule length is anticipated to be 3 months. 3 hours for setup + 1 hour/month to update*
	2.2 Project Requirements and Provisions Work Total				**11**	
2.4	**Contract Management**	LS	1	36	36	*Includes project management efforts for the STV to complete setup and maintenance of files, developing monthly progress and JSEB reports, work effort to develop and execute sub-consultant agreements, etc. (Initial set-up estimated at 24 hours and 4 hours per month for update/maintenance). 24 hours + 3 months x 4 hours/month = 168 hours Factors considered included number of sub consultants, multiple PD&E stages, number of potential goverment agencies (4), complexity of project, public involvement, progress reports per month.*
2.5	**Additional Services**					
	*2.5.1 Alternatives Corridor Evaluation **	*LS*	*1*	*0*	*0*	*N/A*
	2.5.2 Advanced Notification					
	*Advanced Notification **	*LS*	*1*	*0*	*0*	*N/A*
	*Preliminary Environmental Discussion **	*LS*	*1*	*0*	*0*	*N/A*
	2.5.3 Scoping Meeting					
	Set up/Scoping Package	*LS*	*1*	*28*	*28*	*Includes scoping meeting for two staff (12 total hours). Developing scope with 7 sub consultants (16 hours)*
	Participation and notes	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.4 Notice of Intent **	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.5 Transit Coordination Plan **	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.6 Miscellaneous Services **	*LS*	*1*	*0*	*0*	*N/A*
	2.5 Additional Services Total				**28**	
2.7	**Optional Services**	LS	1	0	0	*N/A*
	Project Description and Objectives Subtotal				**75**	
	Hours Subject to QC				**0**	
	Quality Assurance / Quality Control	LS	%	8%	0	
	PROJECT DESCRIPTION AND OBJECTIVES TOTAL HOURS				**75**	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments

Use the following table to assist with task 2.2.6 Meetings and Presentations

	Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway	Typical Section	EA	0	0	0	*N/A*
	Access Management	EA	0	0	0	*N/A*
	Concepts	EA	0	0	0	*N/A*
Drainage	Pond Siting	EA	0	0	0	*N/A*
	COJ Drainage	EA	0	0	0	*N/A*
	COJ Stormwater Utility	EA	0	0	0	*N/A*
Structures	COJ Structures	EA	0	0	0	*N/A*
Environmental	WMD	EA	0	0	0	*N/A*
	NMFS	EA	0	0	0	*N/A*
	USACE	EA	0	0	0	*N/A*
	USCG	EA	0	0	0	*N/A*
	USFWS	EA	0	0	0	*N/A*
	FFWCC	EA	0	0	0	*N/A*
	USDA	EA	0	0	0	*N/A*
	USDOI	EA	0	0	0	*N/A*
	Noise Coordination	EA	0	0	0	*N/A*
	Cultural Resources Coordination	EA	0	0	0	*N/A*
	Contamination Coordination	EA	0	0	0	*N/A*
	COJ Environmental	EA	0	0	0	*N/A*
Traffic	Traffic Methodology	EA	1	1	1	*Review Methodology with COJ (1 staff at 1 hour to prepare, attend by phone, follow -up)*
	Traffic Design	EA	0	0	0	*N/A*
	Traffic Analysis	EA	1	2	2	*Review Traffic Analysis Report (1 staff at 2 hours to prepare, attend, follow -up)*
Tolls	Tolls	EA	0	0	0	*N/A*
Other	Stakeholders	EA	0	0	0	*Meet with identified stakeholders (1 staff at 2 hours to prepare, attend, follow -up for each meeting). Potential stakeholders include: Emergency Services, HOA's, Duval County Public Schools, JTA. Anticipate 6 meetings.*
	Subtotal Technical Meetings				**3**	
	Progress Meetings	EA	1	2	2	*1 staff at 2 hours to prepare, attend, follow -up (1 meeting)*
	Phase Review Meetings	EA	0	0	0	*N/A*
	Total Meetings				**5**	**Carry to task 2.2.6**

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 1 (Traffic Operations Study)
P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
4.1	**Review of Previous Studies**	LS	1	0	0	*N/A*
4.2	**Existing Conditions Analysis**					
	Data Collection	*LS*	*1*	*0*	*0*	*N/A*
	Field Review	*LS*	*1*	*0*	*0*	*N/A*
	4.2 Existing Conditions Analysis Total				**0**	
4.3	**Survey**					
	*4.3.1 Survey Design **	*LS*	*1*	*0*	*0*	*N/A*
	Survey Coordination	*LS*	*1*	*0*	*0*	
	*4.3.2 Photogrammetry **	*LS*	*1*	*0*	*0*	
	Aerial Photography	*LS*	*1*	*0*	*0*	
	4.3 Survey Total				**0**	
4.4	**Geotechnical Investigation**					
	Soils	*LS*	*1*	*0*	*0*	*N/A*
	Geotechnical Coordination	*LS*	*1*	*0*	*0*	
	*Geotechnical Design Services **	*LS*	*1*	*0*	*0*	
	4.4 Geotechnical Investigation Total				**0**	
4.5	**Traffic Analysis**					
	*4.5.1 Traffic Analysis Methodology **	*LS*	*1*	*0*	*0*	***See Peters & Yaffee's Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively. STV will have only project management responsbilities for this task.***
	*4.5.2 Turning Movement Counts **	*LS*	*1*	*0*	*0*	
	*4.5.3 Vehicle Class. Counts on Roadway Segments and Ramps **	*LS*	*1*	*0*	*0*	
	*4.5.4 Pedestrian, Bicycle, and Other Multimodal Data **	*LS*	*1*	*0*	*0*	
	*4.5.5 Calibration and Validation Data **	*LS*	*1*	*0*	*0*	
	*4.5.6 Existing Traffic Operational Analysis **	*LS*	*1*	*0*	*0*	
	*4.5.7 Model Calibration and Validation **	*LS*	*1*	*0*	*0*	
	*4.5.8 Future Demand Forecasting **	*LS*	*1*	*0*	*0*	
	*4.5.9 No-Build Analysis **	*LS*	*1*	*0*	*0*	
	*4.5.10 Development and Screening of Alternatives **	*LS*	*1*	*0*	*0*	
	*4.5.11 Operational Evaluation of Build Alternatives **	*LS*	*1*	*0*	*0*	
	*4.5.12 Project Traffic Analysis Report **	*LS*	*1*	*0*	*0*	
	*4.5.13 Interchange Access Request **	*LS*	*1*	*0*	*0*	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*4.5.14 Traffic Data for Noise Study **	*EA*	*0*	*0*	*0*	
	*4.5.15 Traffic Data for Air Analysis **	*EA*	*0*	*0*	*0*	
	*4.5.16 Signalization Analysis **	*LS*	*1*	*0*	*0*	
				4.5 Traffic Analysis Total	**40**	*Average of 4 hours per week for STV to coordinate with Peters & Yaffee over 10 weeks (3 months)*
4.6	**Signage ***	LS	1	0	0	*N/A*
4.7	**Tolling Concepts ***	LS	1	0	0	*N/A*
4.8	**Safety**					*N/A*
	*4.8.1 Crash Data **	*LS*	*1*	*0*	*0*	
	4.8.2 Safety Analysis					
	*Historical Crash Analysis **	*LS*	*1*	*0*	*0*	
	*HSM Safety Analysis **	*LS*	*1*	*0*	*0*	
	*4.8.3 Documentation of Safety Analysis **	*LS*	*1*	*0*	*0*	
				4.8 Safety Total	**0**	
4.9	**Utilities and Railroads**					
	*4.9.1 Utilities **	*EA*	*1*	*0*	*0*	*N/A*
	*4.9.2 Railroad **	*EA*	*1*	*0*	*0*	*N/A*
				4.9 Utilities and Railroads Total	**0**	
4.10	**Roadway Analysis**					
	*4.10.1 Design Controls and Criteria **	*LS*	*1*	*0*	*0*	*N/A*
	*4.10.2 Typical Section Analysis **	*EA*	*0*	*0*	*0*	*N/A*
	*4.10.3 Geometric Design**	*LS*	*1*	*0*	*0*	*N/A*
	*4.10.4 Intersections and Interchange Evaluation **	*LS*	*0*	*0*	*0*	*N/A*
	*4.10.5 Access Management **	*LS*	*1*	*0*	*0*	*N/A*
	*4.10.6 Multimodal Accommodations **	*LS*	*1*	*0*	*0*	*N/A*
	*4.10.7 Maintenance of Traffic **	*LS*	*1*	*0*	*0*	*N/A*
	*4.10.8 Lighting **	*LS*	*1*	*0*	*0*	*N/A*
				4.10 Roadway Total	**0**	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.11	**Identify Construction Segments ***	LS	1	0	0	N/A
4.12	**Transportation Systems Management and Ops ***	LS	1	0	0	N/A
4.13	**Structures**					
	*4.13.1 Existing Structure **	EA	0	0	0	N/A
	*4.13.2 Structures Typical Section **	EA	0	0	0	N/A
	*4.13.3 Structure Design Alternatives **	EA	0	0	0	N/A
				4.13 Structures Total	**0**	
4.14	**Drainage**					
	*4.14.1 Floodplain and Environmental Permit Data Collection **	LS	1	0	0	N/A
	*4.14.2 Drainage Analysis **	Per Basin	0	0	0	N/A
	*4.14.3 Floodplain Compensation Analysis **	Per Encroach.	0	0	0	N/A
	*4.14.4 Stormwater Management Analysis **					N/A
	Enviro. Look Around (ELA) Meeting and Pond Siting Meeting	LS	1	0	0	N/A
	*Stormwater Management **	Per Basin	0	0	0	N/A
	*4.14.5 Drainage Design **	LS	1	0	0	N/A
	*4.14.6 Location Hydraulic Report **	LS	1	0	0	N/A
	*4.14.7 Bridge Hydraulic Report **	EA	0	0	0	N/A
				4.14 Drainage Total	**0**	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.15	**Landscaping Analysis ***	LS	1	0	0	N/A
4.16	**Construction and Right of Way Cost Estimates**					
	*4.16.1 Construction Cost Estimates **	LS	1	0	0	N/A
	*4.16.2 Right of Way Cost Estimates **	LS	1	0	0	N/A
	4.16 Construction and Right of Way Cost Estimates Total				**0**	
4.17	**Alternatives Evaluation ***					
	*4.17.1 Comparative Alternatives Evaluation **	LS	1	0	0	N/A
	*4.17.2 Selection of Recommended Alternative(s) **	LS	1	0	0	N/A
	*4.17.3 Value Engineering Study **	LS	1	0	0	N/A
	4.17 Alternatives Evaluation Total				**0**	
4.18	**Concept Plans ***					
	*4.18.1 Base Map **	Sheet	0	0	0	N/A
	*4.18.2 Alternative Concept Plans **	Sheet	0	0	0	N/A
	*4.18.3 Preferred Alternative Plans **	Sheet	0	0	0	N/A
	*4.18.4 Typical Section Package **	LS	1	0	0	N/A
	*4.18.5 Design Exceptions and Variations **	EA	0	0	0	N/A
	4.18 Concept Plans Total				**0**	
4.19	**Transportation Systems Management Plan ***	LS	1	0	0	N/A
4.20	**Risk Management**	LS	1	0	0	N/A
4.21	**Engineering Analysis Documentation ***					
	*Draft Engineering Analysis Documentation**	LS	1	0	0	N/A
	*Final Engineering Analysis Documentation **	LS	1	0	0	N/A
	4.21 Engineering Analysis Documentation Total				**0**	
4.22	**Planning Consistency**					N/A
	4.22.1 Transportation Plans	LS	1	0	0	N/A
	*4.22.2 Planning Consistency Forms **	LS	1	0	0	N/A
	4.22 Planning Consistency Total				**0**	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.23	**Transit Systems, Service, and Design**					N/A
	4.23.1 Transit Concepts and Alternatives					
	Review of Transit Concepts and Alternatives Report (TCAR)	LS	1	0	0	N/A
	*Develop Transit Concepts and Alternatives Report **	LS	1	0	0	N/A
	*4.23.2 Existing and Planned Transit Infrastructure and Services **	LS	1	0	0	N/A
	4.23.3 Connectivity and Accessibility	LS	1	0	0	N/A
	*4.23.4 Transit Operational Analysis **	LS	1	0	0	N/A
	4.23.5 Ridership and Revenue Estimations					N/A
	*Ridership and Revenue Forecasts **	LS	1	0	0	N/A
	*Operating and Ridership Sensitivity Testing **	LS	1	0	0	N/A
	*Ridership and Revenue Results Documentation **	LS	1	0	0	N/A
	4.23.6 Proposed Transit Service and Operating Plan	LS	1	0	0	N/A
	*4.23.7 Transit Infrastructure Alternatives **	LS	1	0	0	N/A
	*4.23.8 Transit Design Concepts **	LS	1	0	0	N/A
	*4.23.9 Transit Station / Facility Alternatives and Concepts **	LS	1	0	0	N/A
	*4.23.10 Transit Safety, Security, and Collision Hazard **	LS	1	0	0	N/A
	*4.23.11 Project Management Plan **	LS	1	0	0	N/A
	4.23.12 Transit Cost Estimates and Financial Commitments	LS	1	0	0	N/A
	*4.23.13 Project Delivery Method and Contracting Plan **	LS	1	0	0	N/A
	*4.23.14 Constructability Review **	LS	1	0	0	N/A
	4.23.15 Third Party Agreements	LS	1	0	0	N/A
	*4.23.16 Transit Engineering and Design Documentation **	LS	1	0	0	N/A
	*4.23.17 Federal Transit Grant Program Documentation **	EA	0	0	0	N/A
	4.23 Transit Systems, Service, and Design Total				**0**	
	Engineering Analysis and Report Subtotal				**40**	
	Hours Subject to QC				**40**	
	Quality Assurance / Quality Control	LS	%	0%	0	
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				**40**	

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

COJ Project ID Number	P-13-17
STV Log Number	0063389
Project Description:	Alden Road Connector Bridge Project PD&E Stage 2 (Kick Off Public Meeting)
Consultant Name:	STV Incorporated
STV Project Manager:	J. Keith Jackson, PE
COJ Project Manager:	Gary Goldsberry, PE

Prepared By: [ ] **COJ** [X] **Consultant** [ ] **Final**

Project Length 0.663 **Miles**

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

Name of Prime Consultant: STV Incorporated

Alden Road Connector Bridge Project PD&E Stage 2 (F

P-13-17

		Project Staff Hours Summary for Entire PD&E Team													
Activity No.	**Activity**	**STV Incorporated**	CSI Geo	DRMP	ERS	ETP	Peters & Yaffee	SEARCH	Terracon						**Total Hours**
2	Project Description and Objectives	26													26
3	Public Involvement	110													110
4	Engineering Analysis & Report	0													0
5	Environmental Analysis & Reports	0													0
6	Environmental Document	0													0
8	Design Services	0													0
Project Total		**136**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**136**

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

COJ Project ID Number: P-13-17

Project Name: Alden Road Connector Bridge Project PD&E Stage 2 (Kick Of

STV Log Number: 0063389

Date: 3/2/2018

Name of Consultant: STV Incorporated

WORK ACTIVITY	Hours from "Summary" sheet Firm Total	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS RANGE		ON CADD
		Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer			
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			PERCENT
Project Description and Objectives	26	16	1	0	1	0	0	0	0	8	0	0	0	26	29	
Public Involvement	110	28	6	6	11	17	0	17	17	11	0	0	0	113	124	
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	136	44	7	6	12	17	0	17	17	19	0	0	0	**139**	**153**	
													FIRM TOTAL	**139**	**153**	

Notes:
1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
3. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Field Survey Estimate:

4-man crew days

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

COJ Project ID Number: P-13-17

Project Name: Alden Road Connector Bridge Project PD&E Stage 2 (Kick Of

STV Log Number: 0063389

Date: 3/2/2018

Name of Consultant: STV Incorporated

Staff Hour Distribution Percentages - Firm Total

	Hours from "Summary" sheet Firm Total	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer	Total
Project Description and Objectives	26	60.0%	5.0%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	30.0%	0.0%	0.0%	0.0%	100.00%
Public Involvement	110	25.0%	5.0%	5.0%	10.0%	15.0%	0.0%	15.0%	15.0%	10.0%	0.0%	0.0%	0.0%	100.00%
Engineering Analysis & Report	0	15.0%	5.0%	5.0%	10.0%	15.0%	15.0%	15.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Environmental Analysis & Reports	0	80.0%	5.0%	0.0%	5.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Design Services	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Alden Road Connector Bridge Project PD&E Stage 2 (Kick Off Public Meeting)

Consult. Name: STV Incorporated
Consult. No.
Date: 3/2/2018
Estimator: J. Keith Jackson, PE

COJ Project ID Number P-13-17
STV Log Number 0063389

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$65.87	$98.04	$78.25	$58.20	$41.33	$40.66	$26.93	$22.49	$20.45	$41.00	$56.71	$36.88			
Project Description and Objectives	26	16	1	0	1	0	0	0	0	8	0	0	0	26	$1,342	$51.61
Public Involvement	110	28	6	6	11	17	0	17	17	11	0	0	0	113	$5,373	$47.55
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	136	44	7	6	12	17	0	17	17	19	0	0	0	139		
Total Staff Cost		$2,810.28	$686.28	$469.50	$698.40	$702.61	$0.00	$457.81	$501.33	$388.55	$0.00	$0.00	$0.00		**$6,714.76**	**$48.31**
														Check	$6,714.76	

Survey Field Days by Subconsultant

3 - Person Crew Days: 16 Days (Survey)/2 Days (SUE)

SALARY RELATED COSTS:			$6,714.76
OVERHEAD:	156.00%		$10,475.03
PROFIT:	10.00%		$1,718.98
SALARY RELATED SUBTOTAL:			**$18,908.77**
Fees (F&I Three PCMS/7 Days)			**$1,835.34**
Fees (Two Display Boards; Two Roll Plots)			**$517.50**
Survey (Field - if by Prime)	0.00	4-man crew day: $ - / day	$0.00
SUBTOTAL - PRIME			**$21,261.61**
Subconsultant: CSI Geo			N/A
Subconsultant: DRMP			N/A
Subconsultant:. ERS			N/A
Subconsultant: ETP			N/A
Subconsultant: Peters & Yaffee			N/A
Subconsultant: SEARCH			N/A
Subconsultant: Terracon			N/A
GRAND TOTAL ESTIMATED FEE:			**$21,261.61**

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 2 (Kick Off Public Meeting)

P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
2.2	**Project Requirements and Provisions for Work**					
	2.2.6 Meetings and Presentations	*LS*	*1*	*8*	*8*	*see table below*
	2.2.9 Schedule	*LS*	*1*	*6*	*6*	*Includes hours to develop initial Stage 2 schedule and monthly update schedules. Schedule length is anticipated to be 3 months. 3 hours for setup + 1 hour/month to update*
	2.2 Project Requirements and Provisions Work Total				**14**	
2.4	**Contract Management**	LS	1	12	12	*Includes project management efforts for the STV to complete setup and maintenance of files, developing monthly progress and JSEB reports, work effort to develop and execute sub-consultant agreements, etc. 4 hours per month for update/maintenance 3 months x 4 hours/month = 12 hours Factors considered included number of sub consultants, multiple PD&E stages, number of potential goverment agencies (4), complexity of project, public involvement, progress reports per month.*
2.5	**Additional Services**					
	*2.5.1 Alternatives Corridor Evaluation **	*LS*	*1*	*0*	*0*	*N/A*
	2.5.2 Advanced Notification					
	*Advanced Notification **	*LS*	*1*	*0*	*0*	*N/A*
	*Preliminary Environmental Discussion **	*LS*	*1*	*0*	*0*	*N/A*
	2.5.3 Scoping Meeting					
	Set up/Scoping Package	*LS*	*1*	*0*	*0*	*Included in PD&E Stage 1*
	Participation and notes	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.4 Notice of Intent **	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.5 Transit Coordination Plan **	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.6 Miscellaneous Services **	*LS*	*1*	*0*	*0*	*N/A*
	2.5 Additional Services Total				**0**	
2.7	**Optional Services**	LS	1	0	0	*N/A*
	Project Description and Objectives Subtotal				**26**	
	Hours Subject to QC				**0**	
	Quality Assurance / Quality Control	LS	%	8%	0	
	PROJECT DESCRIPTION AND OBJECTIVES TOTAL HOURS				**26**	

2. PROJECT DESCRIP & OBJECTIVES

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments

Use the following table to assist with task 2.2.6 Meetings and Presentations

	Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway	Typical Section	EA	0	0	0	*N/A*
	Access Management	EA	0	0	0	*N/A*
	Concepts	EA	0	0	0	*N/A*
Drainage	Pond Siting	EA	0	0	0	*N/A*
	COJ Drainage	EA	0	0	0	*N/A*
	COJ Stormwater Utility	EA	0	0	0	*N/A*
Structures	COJ Structures	EA	0	0	0	*N/A*
Environmental	WMD	EA	0	0	0	*N/A*
	NMFS	EA	0	0	0	*N/A*
	USACE	EA	0	0	0	*N/A*
	USCG	EA	0	0	0	*N/A*
	USFWS	EA	0	0	0	*N/A*
	FFWCC	EA	0	0	0	*N/A*
	USDA	EA	0	0	0	*N/A*
	USDOI	EA	0	0	0	*N/A*
	Noise Coordination	EA	0	0	0	*N/A*
	Cultural Resources Coordination	EA	0	0	0	*N/A*
	Contamination Coordination	EA	0	0	0	*N/A*
	COJ Environmental	EA	0	0	0	*N/A*
Traffic	Traffic Methodology	EA	0	0	0	*N/A*
	Traffic Design	EA	0	0	0	*N/A*
	Traffic Analysis	EA	0	0	0	*N/A*
Tolls	Tolls	EA	0	0	0	*N/A*
Other	Stakeholders	EA	0	0	0	*N/A*
	Subtotal Technical Meetings				**0**	
	Progress Meetings	EA	0	0	0	*N/A*
	Phase Review Meetings	EA	2	4	8	*Kick Off Meeting Coordination Meeting and Post-Kick Off Meeting*
	Total Meetings				**8**	**Carry to task 2.2.6**

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 2 (Kick Off Public Meeting)

P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
3.1	**Public Involvement**					
	*3.1.1 Public Involvement Program **	LS	1	0	0	*N/A*
	3.1.2 Public Involvement Data Collection	LS	1	0	0	*N/A*
				3.1 Public Involvement Total	**0**	
3.2	**Scheduled Public Meetings**					
	Kick Off Public Meeting					***Initial meeting with public to present conceptual connector bridge and solicit input***
	Development of Meeting Materials *	*LS*	*1*	*44*	*44*	
	*Presentation**	*LS*	*1*	*0*	*0*	*N/A*
	*Project Handouts **	*LS*	*1*	*0*	*0*	*N/A*
	*Exhibits **	*LS*	*1*	*34*	*34*	*Development of 2 Display Boards for Initial Meeting.12 hours per board.1 roll plot of existing conditions (10 hours)*
	*Site Preparation **	*LS*	*1*	*10*	*10*	*Coordiante the procurement, furnishment, and installation of 3 Portable Changeable Message Signs*
	*Notification Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Press Release/Meeting Announcements **	*LS*	*1*	*0*	*0*	*N/A*
	*Staff Briefing **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*32*	*32*	
	Participation	*LS*	*1*	*8*	*8*	*2 staff at 4 hours each*
	Notes	*LS*	*1*	*24*	*24*	*Aid in Response to comments*

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Presentation to Local MPOs and Associated Technical and Citizens Committees					***Meeting with City Council, Citizen Groups and NFL TPO. Anticipate 3 informational meetings before Kick Off***
	Development of Meeting Materials *	LS	1	0	0	
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	
	Participation and notes	LS	1	30	30	
	Participation	LS	1	18	18	2 staff at 3 hours each for 3 meetings
	Notes	LS	1	12	12	Meeting Summary organization and prep for 3 meetings
	Public Informational Meeting					***Presentation to public of alternatives under evaluation***
	Development of Meeting Materials *	LS	1	0	0	
	*Agenda **	LS	1	0	0	N/A
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	N/A
	*Site Selection **	LS	1	0	0	N/A
	*Notification Letters **	LS	1	0	0	N/A
	*Press Release/Meeting Announcements **	LS	1	0	0	N/A
	*Project Summaries **	LS	1	0	0	N/A
	*Response letters **	LS	1	0	0	N/A
	*Staff Briefing **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Alternatives Public Information Hearing					
	Development of Meeting Materials *	LS	1	0	0	
	*Agenda**	LS	1	0	0	N/A
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	
	*Site Selection **	LS	1	0	0	N/A
	*Notification Letters **	LS	1	0	0	N/A
	*Press Release/Meeting Announcements **	LS	1	0	0	N/A
	*Project Summaries **	LS	1	0	0	N/A
	*Response letters **	LS	1	0	0	N/A

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Staff Briefing **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Additional Coordination and Consensus Building Meeting(s)					N/A
	Development of Meeting Materials *	LS	1	0	0	
	*Meeting preparation **	LS	1	0	0	N/A
	*Create or Update Presentation **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Community / Stakeholder Forum(s)					N/A
	Development of Meeting Materials *	LS	1	0	0	
	*Agenda **	LS	1	0	0	N/A
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	N/A
	*Site Selection **	LS	1	0	0	N/A
	*Notification Letters **	LS	1	0	0	N/A
	*Press Release/Meeting Announcements **	LS	1	0	0	N/A
	*Project Summaries **	LS	1	0	0	N/A
	*Response letters **	LS	1	0	0	N/A
	*Staff Briefing **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Environmental Forum(s)					
	Development of Meeting Materials *	LS	1	0	0	
	*Agenda **	LS	1	0	0	N/A
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	N/A
	*Site Selection **	LS	1	0	0	N/A
	*Notification Letters **	LS	1	0	0	N/A
	*Press Release/Meeting Announcements **	LS	1	0	0	N/A
	*Project Summaries **	LS	1	0	0	N/A
	*Response letters **	LS	1	0	0	N/A

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Staff Briefing **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*0*	*0*	
	Participation	*LS*	*1*	*0*	*0*	*N/A*
	Notes	*LS*	*1*	*0*	*0*	*N/A*
				3.2 Scheduled Public Meetings Total	**106**	
3.3	**Public Hearing**					
	Public Hearing Materials	*LS*	*1*	*0*	*0*	
	*Public Officials and Regulatory Agency Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Public Hearing Notices **	*LS*	*1*	*0*	*0*	*N/A*
	*Property Owner Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Presentation Scripts **	*LS*	*1*	*0*	*0*	*N/A*
	*Brochures **	*LS*	*1*	*0*	*0*	*N/A*
	*Meeting Location Signs **	*LS*	*1*	*0*	*0*	*N/A*
	Exhibits	*LS*	*1*	*0*	*0*	*N/A*
	*Additional Invitations **	*LS*	*1*	*0*	*0*	*N/A*
	*Advertisements **	*LS*	*1*	*0*	*0*	*N/A*
	*Press Releases **	*LS*	*1*	*0*	*0*	*N/A*
	*Meeting Site Selection **	*LS*	*1*	*0*	*0*	*N/A*
	*Written Responses to Comments **	*LS*	*1*	*0*	*0*	*N/A*
	*Transcript, errata sheet and certification **	*LS*	*1*	*0*	*0*	*N/A*
	*Arrange for Court Reporter **	*LS*	*1*	*0*	*0*	*N/A*
	*Staff Briefing **	*LS*	*1*	*0*	*0*	*N/A*
	*Transcript, errata sheet and certification **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*0*	*0*	
	Participation	*LS*	*1*	*0*	*0*	*N/A*
				3.3 Public Hearing Total	**0**	
3.4	**Comments and Coordination Report**	LS	1	0	0	*N/A*
3.5	**Notification of Approved Environmental Document ***	LS	1	0	0	*N/A*

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
3.6	**Additional Public Involvement Requirements**					
	*General Public Correspondence **	*LS*	*1*	*0*	*0*	*N/A*
	*News Letters, Fact Sheets, Preparation / Distribution **	*LS*	*1*	*0*	*0*	*N/A*
	*Web Site Development **	*LS*	*1*	*0*	*0*	*N/A*
	*Web Site Maintenance **	*LS*	*1*	*0*	*0*	*N/A*
	*Videos, Renderings, etc. **	*LS*	*1*	*0*	*0*	*N/A*
	*Other **	*LS*	*1*	*0*	*0*	*N/A*
	1.9 Special Public Involvement Requirements Total				**0**	
	Public Involvement Subtotal				**106**	
	Hours Subject to QC				**44**	
	Quality Assurance / Quality Control	LS	%	8%	4	
	PUBLIC INVOLVEMENT TOTAL HOURS				**110**	

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

COJ Project ID Number	P-13-17
STV Log Number	0063389
Project Description:	Alden Road Connector Bridge Project PD&E Stage 3 (Alternative Analysis)
Consultant Name:	STV Incorporated
STV Project Manager:	J. Keith Jackson, PE
COJ Project Manager:	Gary Goldsberry, PE

Prepared By: [ ] **COJ** [X] **Consultant** [ ] **Final**

Project Length 0.663 **Miles**

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

Name of Prime Consultant: STV Incorporated

Alden Road Connector Bridge Project PD&E Stage 3 (A

P-13-17

		Project Staff Hours Summary for Entire PD&E Team													
Activity No.	Activity	STV Incorporated	CSI Geo	DRMP	ERS	ETP	Peters & Yaffee	SEARCH	Terracon						Total Hours
2	Project Description and Objectives	120													120
3	Public Involvement	97													97
4	Engineering Analysis & Report	2187	99	88											2374
5	Environmental Analysis & Reports	34			79	67		40	76	0					296
6	Environmental Document	0													0
8	Design Services	0													0
Project Total		**2,438**	**99**	**88**	**79**	**67**	**0**	**40**	**76**	**0**	**0**	**0**	**0**	**0**	**2,887**

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

COJ Project ID Number: P-13-17

Project Name: Alden Road Connector Bridge Project PD&E Stage 3 (Alternat

STV Log Number: 0063389

Date: 3/2/2018

Name of Consultant: STV Incorporated

WORK ACTIVITY	Hours from "Summary" sheet Firm Total	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS RANGE		ON CADD
		Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer			
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			PERCENT
Project Description and Objectives	120	72	2	0	6	4	0	0	0	36	0	0	0	120	132	
Public Involvement	97	24	2	5	10	17	0	15	15	10	0	0	0	98	108	
Engineering Analysis & Report	2187	188	55	109	219	523	328	328	437	0	0	0	0	2187	2406	
Environmental Analysis & Reports	34	20	1	0	2	8	0	0	3	0	0	0	0	34	37	
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	2,438	304	60	114	237	552	328	343	455	46	0	0	0	**2,439**	**2,683**	
													FIRM TOTAL	**2,439**	**2,683**	

Notes:
1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
3. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

Field Survey Estimate:
4-man crew days

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

COJ Project ID Number: P-13-17

Project Name: Alden Road Connector Bridge Project PD&E Stage 3 (Alternat

STV Log Number: 0063389

Date: 3/2/2018

Name of Consultant: STV Incorporated

Staff Hour Distribution Percentages - Firm Total

	Hours from "Summary" sheet Firm Total	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer	Total
Project Description and Objectives	120	60.0%	2.0%	0.0%	5.0%	3.0%	0.0%	0.0%	0.0%	30.0%	0.0%	0.0%	0.0%	100.00%
Public Involvement	97	25.0%	2.4%	5.0%	10.0%	17.6%	0.0%	15.0%	15.0%	10.0%	0.0%	0.0%	0.0%	100.00%
Engineering Analysis & Report	2187	8.6%	2.5%	5.0%	10.0%	23.9%	15.0%	15.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Environmental Analysis & Reports	34	60.0%	2.0%	0.0%	5.0%	23.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	100.00%
Design Services	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Alden Road Connector Bridge Project PD&E Stage 3 (Alternative Analysis)

Consult. Name: STV Incorporated
Consult. No.
Date: 3/2/2018
Estimator: J. Keith Jackson, PE

COJ Project ID Number P-13-17
STV Log Number 0063389

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical	Field Inspector	Senior Planner	Public Info. Officer	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$63.87	$98.64	$78.25	$58.20	$41.33	$40.66	$26.93	$29.49	$30.45	$41.90	$56.71	$26.88			
Project Description and Objectives	120	72	2	0	6	4	0	0	0	36	0	0	0	120	$6,045	$50.38
Public Involvement	97	24	2	5	10	17	0	15	15	10	0	0	0	97	$4,456	$45.93
Engineering Analysis & Report	2,187	188	55	109	219	523	328	328	437	0	0	0	0	2,199	$95,347	$43.36
Environmental Analysis & Reports	34	20	1	0	2	8	0	0	3	0	0	0	0	64	$1,911	$29.86
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	2,438	304	60	114	237	552	328	343	455	46	0	0	0	2,480		
Total Staff Cost		$19,416.48	$5,882.40	$8,920.50	$13,793.40	$22,814.16	$13,336.48	$9,236.99	$13,417.95	$940.70	$0.00	$0.00	$0.00		**$107,759.06**	**$43.45**

Check ~ $107,759.06

Survey Field Days by Subconsultant

3 - Person Crew Days: 16 Days (Survey)/2 Days (SUE)

SALARY RELATED COSTS:				$107,759.06
OVERHEAD:		156.00%		$168,104.13
PROFIT:		10.00%		$27,586.32
SALARY RELATED SUBTOTAL:				**$303,449.51**
Fees (F&I Three PCMS/7 Days)				**$1,835.34**
Fees (Three Display Boards; Two Roll Plots)				**$862.50**
Survey (Field - if by Prime)	0.00	4-man crew day: $ -	/ day	$0.00
SUBTOTAL - PRIME				**$306,147.35**
Subconsultant: CSI Geo				$48,194.13
Subconsultant: DRMP				$32,191.63
Subconsultant: ERS				$9,410.98
Subconsultant: ETP				$11,105.19
Subconsultant: Peters & Yaffee				N/A
Subconsultant: SEARCH				$3,944.79
Subconsultant: Terracon				$10,463.06
GRAND TOTAL ESTIMATED FEE:				**$421,457.13**

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 3 (Alternative Analysis)

P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
2.2	**Project Requirements and Provisions for Work**					
	2.2.6 Meetings and Presentations	*LS*	*1*	*63*	*63*	*see table below*
	2.2.9 Schedule	*LS*	*1*	*9*	*9*	*Includes hours to develop initial and monthly update schedules. Schedule length is anticipated to be 6 months. 3 hours for setup + 1 hour/month to update*
	2.2 Project Requirements and Provisions Work Total				**72**	
2.4	**Contract Management**	LS	1	48	48	*Includes project management efforts for the STV to complete setup and maintenance of files, developing monthly progress and JSEB reports, work effort to develop and execute sub-consultant agreements, etc. (Initial set-up estimated at 24 hours and 6 hours per month for update/maintenance). 24 hours + 6 months x 4 hours/month = 48 hours Factors considered included number of sub consultants, number of potential goverment agencies (4), complexity of project, public involvement, progress reports per month*
2.5	**Additional Services**					
	*2.5.1 Alternatives Corridor Evaluation **	*LS*	*1*	*0*	*0*	*N/A*
	2.5.2 Advanced Notification					
	*Advanced Notification **	*LS*	*1*	*0*	*0*	*N/A*
	*Preliminary Environmental Discussion **	*LS*	*1*	*0*	*0*	*N/A*
	2.5.3 Scoping Meeting					
	Set up/Scoping Package	*LS*	*1*	*0*	*0*	*Included in PD&E Stage 1*
	Participation and notes	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.4 Notice of Intent **	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.5 Transit Coordination Plan **	*LS*	*1*	*0*	*0*	*N/A*
	*2.5.6 Miscellaneous Services **	*LS*	*1*	*0*	*0*	*N/A*
	2.5 Additional Services Total				**0**	
2.7	**Optional Services**	LS	1	0	0	*N/A*
	Project Description and Objectives Subtotal				**120**	
	Hours Subject to QC				**0**	
	Quality Assurance / Quality Control	LS	%	8%	0	
	PROJECT DESCRIPTION AND OBJECTIVES TOTAL HOURS				**120**	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments

Use the following table to assist with task 2.2.6 Meetings and Presentations

	Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway	Typical Section	EA	1	6	6	*Review Initial Typical Sections (2 Staff at 3 hours each to prepare, attend, follow -up)*
	Access Management	EA	0	0	0	*N/A*
	Concepts	EA	2	8	16	*Review and Finalize Alternative Concepts (2 Staff at 4 hours each to prepare, attend, follow -up)*
Drainage	Pond Siting	EA	1	8	8	*Review Pond Alternative (2 Staff at 4 hours each to prepare, attend, follow -up)*
	COJ Drainage	EA	0	0	0	*N/A*
	COJ Stormwater Utility	EA	1	6	6	*Coordinate with Agency (2 staff at 3 hour to prepare, attend, follow -up)*
Structures	COJ Structures	EA	0	0	0	*N/A*
Environmental	WMD	EA	1	2	2	*Coordinate with Agency (2 staff at 1 hour to prepare, attend, follow -up)*
	NMFS	EA	0	0	0	*N/A*
	USACE	EA	1	2	2	*Coordinate with Agency (2 staff at 1 hour to prepare, attend, follow -up)*
	USCG	EA	0	0	0	*N/A*
	USFWS	EA	0	0	0	*N/A*
	FFWCC	EA	0	0	0	*N/A*
	USDA	EA	0	0	0	*N/A*
	USDOI	EA	0	0	0	*N/A*
	Noise Coordination	EA	1	2	2	*Review NIA (1 staff at 2 hours to prepare, attend, follow -up)*
	Cultural Resources Coordination	EA	1	2	2	*Review Cultural Resource Memo (1 staff at 2 hours to prepare, attend, follow -up)*
	Contamination Coordination	EA	1	2	2	*Review CSER (1 staff at 2 hours to prepare, attend, follow -up)*
	COJ Environmental	EA	1	2	2	*Review NRE (1 staff at 2 hours to prepare, attend, follow -up)*
Traffic	Traffic Methodology	EA	0	0	0	*N/A*
	Traffic Design	EA	0	0	0	*N/A*
	Traffic Analysis	EA	0	0	0	*N/A*
Tolls	Tolls	EA	0	0	0	*N/A*
Other	Stakeholders	EA	1	9	9	*Meet with identified stakeholders (1 staff at 2 hours to prepare, attend, follow -up for each meeting). Potential stakeholders include: Emergency Services, HOA's, Duval County Public Schools, JTA. Anticipate 6 meetings.*
	Subtotal Technical Meetings				**57**	
	Progress Meetings	EA	3	2	6	*1 staff at 2 hours to prepare, attend, follow -up (3 meetings)*
	Phase Review Meetings	EA	0	0	0	*N/A*
	Total Meetings				**63**	**Carry to task 2.2.6**

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
3.1	**Public Involvement**					
	*3.1.1 Public Involvement Program **	LS	1	0	0	*N/A*
	3.1.2 Public Involvement Data Collection	LS	1	0	0	*N/A*
				3.1 Public Involvement Total	**0**	
3.2	**Scheduled Public Meetings**					
	Project Kickoff Meeting					***Completed in PD&E Stage 2***
	Development of Meeting Materials *	*LS*	*1*	*0*	*0*	
	*Presentation**	*LS*	*1*	*0*	*0*	*N/A*
	*Project Handouts **	*LS*	*1*	*0*	*0*	*N/A*
	*Exhibits **	*LS*	*1*	*0*	*0*	*N/A*
	*Site Selection **	*LS*	*1*	*0*	*0*	*N/A*
	*Notification Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Press Release/Meeting Announcements **	*LS*	*1*	*0*	*0*	*N/A*
	*Staff Briefing **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*0*	*0*	
	Participation	*LS*	*1*	*0*	*0*	*N/A*
	Notes	*LS*	*1*	*0*	*0*	*N/A*

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Presentation to Local MPOs and Associated Technical and Citizens Committees					***Completed in PD&E Stage 2***
	Development of Meeting Materials *	*LS*	*1*	*0*	*0*	
	*Presentation **	*LS*	*1*	*0*	*0*	*N/A*
	*Project Handouts **	*LS*	*1*	*0*	*0*	*N/A*
	*Exhibits **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and notes	*LS*	*1*	*0*	*0*	
	Participation	*LS*	*1*	*0*	*0*	*N/A*
	Notes	*LS*	*1*	*0*	*0*	*N/A*
	Public Informational Meeting					***N/A***
	Development of Meeting Materials *	*LS*	*1*	*0*	*0*	
	*Agenda **	*LS*	*1*	*0*	*0*	*N/A*
	*Presentation **	*LS*	*1*	*0*	*0*	*N/A*
	*Project Handouts **	*LS*	*1*	*0*	*0*	*N/A*
	*Exhibits **	*LS*	*1*	*0*	*0*	*N/A*
	*Site Selection **	*LS*	*1*	*0*	*0*	*N/A*
	*Notification Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Press Release/Meeting Announcements **	*LS*	*1*	*0*	*0*	*N/A*
	*Project Summaries **	*LS*	*1*	*0*	*0*	*N/A*
	*Response letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Staff Briefing **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*0*	*0*	
	Participation	*LS*	*1*	*0*	*0*	*N/A*
	Notes	*LS*	*1*	*0*	*0*	*N/A*
	Alternatives Public Information Hearing					
	Development of Meeting Materials *	*LS*	*1*	*0*	*0*	
	*Agenda**	*LS*	*1*	*0*	*0*	*N/A*
	*Presentation **	*LS*	*1*	*0*	*0*	*N/A*
	*Project Handouts **	*LS*	*1*	*0*	*0*	*N/A*
	*Exhibits **	*LS*	*1*	*0*	*0*	
	*Site Selection **	*LS*	*1*	*0*	*0*	*N/A*
	*Notification Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Press Release/Meeting Announcements **	*LS*	*1*	*0*	*0*	*N/A*
	*Project Summaries **	*LS*	*1*	*0*	*0*	*N/A*
	*Response letters **	*LS*	*1*	*0*	*0*	*N/A*

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Staff Briefing **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Additional Coordination and Consensus Building Meeting(s)					N/A
	Development of Meeting Materials *	LS	1	0	0	
	*Meeting preparation **	LS	1	0	0	N/A
	*Create or Update Presentation **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Community / Stakeholder Forum(s)					N/A
	Development of Meeting Materials *	LS	1	0	0	
	*Agenda **	LS	1	0	0	N/A
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	N/A
	*Site Selection **	LS	1	0	0	N/A
	*Notification Letters **	LS	1	0	0	N/A
	*Press Release/Meeting Announcements **	LS	1	0	0	N/A
	*Project Summaries **	LS	1	0	0	N/A
	*Response letters **	LS	1	0	0	N/A
	*Staff Briefing **	LS	1	0	0	N/A
	Participation and Notes	LS	1	0	0	
	Participation	LS	1	0	0	N/A
	Notes	LS	1	0	0	N/A
	Environmental Forum(s)					
	Development of Meeting Materials *	LS	1	0	0	
	*Agenda **	LS	1	0	0	N/A
	*Presentation **	LS	1	0	0	N/A
	*Project Handouts **	LS	1	0	0	N/A
	*Exhibits **	LS	1	0	0	N/A
	*Site Selection **	LS	1	0	0	N/A
	*Notification Letters **	LS	1	0	0	N/A
	*Press Release/Meeting Announcements **	LS	1	0	0	N/A
	*Project Summaries **	LS	1	0	0	N/A
	*Response letters **	LS	1	0	0	N/A

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Staff Briefing **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*0*	*0*	
	Participation	*LS*	*1*	*0*	*0*	*N/A*
	Notes	*LS*	*1*	*0*	*0*	*N/A*
				3.2 Scheduled Public Meetings Total	**0**	
3.3	**Public Hearing**					***Presentation to public of selected alternative***
	Public Hearing Materials	*LS*	*1*	*82*	*82*	
	*Public Officials and Regulatory Agency Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Public Hearing Notices **	*LS*	*1*	*0*	*0*	*N/A*
	*Property Owner Letters **	*LS*	*1*	*0*	*0*	*N/A*
	*Presentation Scripts **	*LS*	*1*	*0*	*0*	*N/A*
	*Brochures **	*LS*	*1*	*0*	*0*	*N/A*
	*Meeting Location Signs **	*LS*	*1*	*0*	*0*	*N/A*
	Exhibits	*LS*	*1*	*48*	*48*	*Development of 3 Display Boards of selected alternative for Public Hearing at 12 hours per board. Includes Typical Section, Horizontal Alignment, and Misc. Information (e.g. cost). One project roll plot at 12 hours*
	*Additional Invitations **	*LS*	*1*	*0*	*0*	*N/A*
	*Advertisements **	*LS*	*1*	*0*	*0*	*N/A*
	*Press Releases **	*LS*	*1*	*0*	*0*	*N/A*
	*Meeting Site Selection **	*LS*	*1*	*0*	*0*	*N/A*
	*Written Responses to Comments **	*LS*	*1*	*24*	*24*	*Aid in response to comments*
	*Transcript, errata sheet and certification **	*LS*	*1*	*0*	*0*	*N/A*
	*Arrange for Court Reporter **	*LS*	*1*	*0*	*0*	*N/A*
	*Site Preparation **	*LS*	*1*	*10*	*10*	*Coordiante the procurement, furnishment, and installation of 3 Portable Changeable Message Signs*
	*Transcript, errata sheet and certification **	*LS*	*1*	*0*	*0*	*N/A*
	Participation and Notes	*LS*	*1*	*8*	*8*	
	Participation	*LS*	*1*	*8*	*8*	*2 staff at 4 hours each*
				3.3 Public Hearing Total	**90**	
3.4	**Comments and Coordination Report**	LS	1	0	0	*N/A*
3.5	**Notification of Approved Environmental Document ***	LS	1	0	0	*N/A*

3. PUBLIC INVOLVEMENT

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
3.6	**Additional Public Involvement Requirements**					
	*General Public Correspondence **	*LS*	*1*	*0*	*0*	*N/A*
	*News Letters, Fact Sheets, Preparation / Distribution **	*LS*	*1*	*0*	*0*	*N/A*
	*Web Site Development **	*LS*	*1*	*0*	*0*	*N/A*
	*Web Site Maintenance **	*LS*	*1*	*0*	*0*	*N/A*
	*Videos, Renderings, etc. **	*LS*	*1*	*0*	*0*	*N/A*
	*Other **	*LS*	*1*	*0*	*0*	*N/A*
	1.9 Special Public Involvement Requirements Total				**0**	
	Public Involvement Subtotal				**90**	
	Hours Subject to QC				**82**	
	Quality Assurance / Quality Control	LS	%	8%	7	
	PUBLIC INVOLVEMENT TOTAL HOURS				**97**	

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 3 (Alternative Analysis)
P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
4.1	**Review of Previous Studies**	LS	1	0	0	*N/A*
4.2	**Existing Conditions Analysis**					
	Data Collection	*LS*	*1*	*12*	*12*	*Sub Division As-Builts (4), LiDAR, COJ Stormwater Utility documentation, Utility Agency facillity information, NFLTPO Plans, etc. Total: 12 hours*
	Field Review	*LS*	*1*	*12*	*12*	*3 Field Reviews during PD&E Phase. 2 staff at 2 hours per visit. Total: 12 hours*
				4.2 Existing Conditions Analysis Total	**24**	
4.3	**Survey**					***See DRMP Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively.***
	*4.3.1 Survey Design **	*LS*	*1*	*0*	*0*	
	Survey Coordination	*LS*	*1*	*0*	*0*	
	*4.3.2 Photogrammetry **	*LS*	*1*	*0*	*0*	
	Aerial Photography	*LS*	*1*	*0*	*0*	
				4.3 Survey Total	**6**	*Average of 1 hour per month for STV to coordinate with DRMP over 6 months*
4.4	**Geotechnical Investigation**					***See CSI Geo Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively.***
	Soils	*LS*	*1*	*0*	*0*	
	Geotechnical Coordination	*LS*	*1*	*0*	*0*	
	*Geotechnical Design Services **	*LS*	*1*	*0*	*0*	
				4.4 Geotechnical Investigation Total	**6**	*Average of 1 hour per month for STV to coordinate with CSI Geo over 6 months*
4.5	**Traffic Analysis**					***Competed in PD&E Stage 1***
	*4.5.1 Traffic Analysis Methodology **	*LS*	*1*	*0*	*0*	
	*4.5.2 Turning Movement Counts **	*LS*	*1*	*0*	*0*	
	*4.5.3 Vehicle Class. Counts on Roadway Segments and Ramps **	*LS*	*1*	*0*	*0*	
	*4.5.4 Pedestrian, Bicycle, and Other Multimodal Data **	*LS*	*1*	*0*	*0*	
	*4.5.5 Calibration and Validation Data **	*LS*	*1*	*0*	*0*	
	*4.5.6 Existing Traffic Operational Analysis **	*LS*	*1*	*0*	*0*	
	*4.5.7 Model Calibration and Validation **	*LS*	*1*	*0*	*0*	
	*4.5.8 Future Demand Forecasting **	*LS*	*1*	*0*	*0*	
	*4.5.9 No-Build Analysis **	*LS*	*1*	*0*	*0*	
	*4.5.10 Development and Screening of Alternatives **	*LS*	*1*	*0*	*0*	
	*4.5.11 Operational Evaluation of Build Alternatives **	*LS*	*1*	*0*	*0*	
	*4.5.12 Project Traffic Analysis Report **	*LS*	*1*	*0*	*0*	
	*4.5.13 Interchange Access Request **	*LS*	*1*	*0*	*0*	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*4.5.14 Traffic Data for Noise Study **	*EA*	*0*	*0*	*0*	
	*4.5.15 Traffic Data for Air Analysis **	*EA*	*0*	*0*	*0*	
	*4.5.16 Signalization Analysis **	*LS*	*1*	*0*	*0*	
				4.5 Traffic Analysis Total	**0**	
4.6	**Signage ***	LS	1	0	0	*N/A*
4.7	**Tolling Concepts ***	LS	1	0	0	*N/A*
4.8	**Safety**					*N/A*
	*4.8.1 Crash Data **	*LS*	*1*	*0*	*0*	
	4.8.2 Safety Analysis					
	*Historical Crash Analysis **	*LS*	*1*	*0*	*0*	
	*HSM Safety Analysis **	*LS*	*1*	*0*	*0*	
	*4.8.3 Documentation of Safety Analysis **	*LS*	*1*	*0*	*0*	
				4.8 Safety Total	**0**	
4.9	**Utilities and Railroads**					
	*4.9.1 Utilities **	*EA*	*1*	*30*	*30*	*Project is in a suburban area with a mid range of conflicts. 6 hours per utility for approximately 5 utility agency owners to analyze impacts on utility providers and customers*
	*4.9.2 Railroad **	*EA*	*1*	*0*	*0*	*N/A*
				4.9 Utilities and Railroads Total	**30**	
4.10	**Roadway Analysis**					
	*4.10.1 Design Controls and Criteria **	*LS*	*1*	*16*	*16*	*This tasks consists of defining identifying and documenting applicable design control and criteria*
	*4.10.2 Typical Section Analysis **	*EA*	*3*	*12*	*36*	*This task involves the development of three reasonable typical sections for the project. The hours associated with this task are estimated 12 hours per typical section. Project constraints include present and future impacts to adjacent homeowners, COJ Stormwater Utility pipe, developing typicals for cost effective future expansion.*
	*4.10.3 Geometric Design**	*LS*	*1*	*320*	*320*	*This task consists of the development of three horizontal and one vertical alignment for the project. Vertical alignment shall evaluate all earth cut necessary to west side. Alignments include mainline, cross roads and interchange ramps. Justification of hours include the complexity of balancing vertical and horizontal alignment impacts to adjacent home owners, the density of development, potential for special aesthetic treatments, short length of the project requiring detailed design, minimizing wetland impacts, minimizing R/W impacts, conveyance of stormwater runoff. 80 hours for development of each horizontal alignment (Total: 240). 80 hours for development of each vertical alignment*
	*4.10.4 Intersections and Interchange Evaluation **	*LS*	*1*	*44*	*44*	*Evaluation of exsiting subdivision entrances (4 hours each entrance for 4 entrances). Evaluation of Huffman Blvd roundabout alternatives (12 hours). Evaluation of Alden Road/Kernan Blvd intersection (16 hours)*
	*4.10.5 Access Management **	*LS*	*1*	*0*	*0*	*N/A*
	*4.10.6 Multimodal Accommodations **	*LS*	*1*	*40*	*40*	*This task consists of identifying and evaluating accommodations of pedestrian, bicycle and public transit in the development and evaluation of Project alternatives. It also includes analyzing existing and planned multi-modal needs (including accessibility and connectivity) and developing alternatives to accommodate all users.*
	*4.10.7 Maintenance of Traffic **	*LS*	*1*	*24*	*24*	*This is a new alignment and the impact to traffic is anticipated to be minimal for the new Alden Road alignment.*
	*4.10.8 Lighting **	*LS*	*1*	*0*	*0*	*N/A*
				4.10 Roadway Total	**480**	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.11	**Identify Construction Segments ***	LS	1	18	18	*Task includes the segmenting and identification of the project into implementable construction segments, evaluating constructability, developing staging and sequencing plans. 6 hours per alternative.*
4.12	**Transportation Systems Management and Ops ***	LS	1	60	60	*This task is associated with the development of alternatives with respect to Transportation Systems Management and Operations (TSM&O) Alternative infrastructure. It inlcudes improvements to improve traffic operations the traffic study area that could alleviate the need for the Alden Road Bridge. An example of the type of improvements are the addition of left/right turn lanes at intersections in the study area.*
4.13	**Structures**					
	*4.13.1 Existing Structure **	*EA*	*0*	*0*	*0*	*N/A*
	*4.13.2 Structures Typical Section **	*EA*	*6*	*6*	*36*	*Develop bridge typical section in consideration of staged construction and future widening. Assume one typical section for each horizontal alignment alternative (one 2-lane and one 3-lane).*
	*4.13.3 Structure Design Alternatives **	*EA*	*3*	*102*	*306*	*Consider 3 concrete structure types - 36" Florida-I Beam, 54" Florida-I Beam, & Florida Slab Beam. Provide "Preliminary Bridge Development Report (BDR)" documenting design assumptions and cost for each structure type, including exhibits for each type (Plan, Elevation, Typical Section). Assumes no structural design. Full BDR and structural design to be provided in design phase.* *Hours for each alternative: Geometry (8 hrs.) + Beam type/spacing per design aids (4 hrs.) + Bent geometry & pile configuration (12 hrs.) + Pile loads (12 hrs.) + Wall geometry (8 hrs.) + Quantities & cost estimate (20 hrs.) + Plan & Elevation Sheet (20 hrs.) + Typical Section Sheet (12 hrs.) = 96 hrs.* *Total hrs. = 96 hrs. * 3 Alternatives + Report Preparation (18 hrs.) = 306 hrs.*
				4.13 Structures Total	**342**	
4.14	**Drainage**					
	*4.14.1 Floodplain and Environmental Permit Data Collection **	*LS*	*1*	*32*	*32*	*This tasks consists of data gathering from relevant sources to obtain permits, maps, studies, as-builts, etc.*
	*4.14.2 Drainage Analysis **	*Per Basin*	*2*	*40*	*80*	*This task consist of performing drainage analysis by delineating the basin boundaries using LiDAR information, existing survey, and field observations. The task also include checking the capacity and structural adequacy of existing cross drains. Two Basins to be evaluated at 40 hours per basin.*
	*4.14.3 Floodplain Compensation Analysis **	*Per Encroach.*	*1*	*40*	*40*	*This task includes determining base floodplain elevations, estimating encroachments and appropriate compensation provisions.*
	*4.14.4 Stormwater Management Analysis **					
	Enviro. Look Around (ELA) Meeting and Pond Siting Meeting	*LS*	*1*	*0*	*0*	*N/A*
	*Stormwater Management **	*Per Basin*	*2*	*40*	*80*	*This task includes calculation of stormwater management requirements and estimation of stormwater management facility requirements. Includes the identification of practical stormwater management facility locations per basin and estimating construction cost.*
	*4.14.5 Drainage Design **	*LS*	*1*	*0*	*0*	*N/A in PD&E Phase*
	*4.14.6 Location Hydraulic Report **	*LS*	*1*	*40*	*40*	*Production of report to assess the level of impacts to the flood plain and mitigation measures if necessary. LHR will also address conceptual bridge length, conceptual scour considerations and preliminary clearances (vertical and horizontal directions).*
	*4.14.7 Bridge Hydraulic Report **	*EA*	*0*	*0*	*0*	*N/A in PD&E Phase*
				4.14 Drainage Total	**272**	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.15	**Landscaping Analysis ***	LS	1	0	0	*N/A*
4.16	**Construction and Right of Way Cost Estimates**					
	*4.16.1 Construction Cost Estimates **	*LS*	*1*	*60*	*60*	*Costs Estimates for 3 horizontal/vertical alternatives and three bridge types (6 total estimates). Average of 10 hours each to set up and update as needed.*
	*4.16.2 Right of Way Cost Estimates **	*LS*	*1*	*6*	*6*	*Costs Estimates for 3 horizontal/vertical alternatives (3 total estimates). Coordinate with COJ R/W Office for estimates. Average of 2 hours each alternative.*
	4.16 Construction and Right of Way Cost Estimates Total				**66**	
4.17	**Alternatives Evaluation ***					
	*4.17.1 Comparative Alternatives Evaluation **	*LS*	*1*	*120*	*120*	*The development of an evaluation matrix and the qualitative and quantitative analysis of the project alternatives. No Build, TSM&O, and six horizontal/vertical build alternatives will be evaluated. Three bridge types evaluated. Eleven alternatives will be evaluated in total.*
	*4.17.2 Selection of Recommended Alternative(s) **	*LS*	*1*	*12*	*12*	*Coordination with COJ to select a recommended alternative*
	*4.17.3 Value Engineering Study **	*LS*	*1*	*0*	*0*	*N/A*
	4.17 Alternatives Evaluation Total				**132**	
4.18	**Concept Plans ***					
	*4.18.1 Base Map **	*Sheet*	*1*	*12*	*12*	*This task includes creating a base map that consists of existing data and information for the project on aerial photographs. This task includes rectifying the aerial photography, moving, scaling and rotating the images within a design file to the base map.*
	*4.18.2 Alternative Concept Plans **	*Sheet*	*0*	*0*	*0*	*N/A*
	*4.18.3 Preferred Alternative Plans **	*Sheet*	*14*	*10*	*140*	*40 Scale Plan/Profile Sheets for Road/Bridge (8 sheets). 4 Sheets for Pond Alternatives. One sheet for typical sections. One cover sheet. Average of 10 hours per sheet.*
	*4.18.4 Typical Section Package **	*LS*	*1*	*0*	*0*	*N/A*
	*4.18.5 Design Exceptions and Variations **	*EA*	*0*	*0*	*0*	*N/A*
	4.18 Concept Plans Total				**152**	
4.19	**Transportation Systems Management Plan ***	LS	1	0	0	*N/A*
4.20	**Risk Management**	LS	1	0	0	*N/A*
4.21	**Engineering Analysis Documentation ***					
	*Draft Engineering Analysis Documentation**	*LS*	*1*	*260*	*260*	*Compile, organize, produce DRAFT report. Suggested range for 2 or more build alternatives and no-build with many issues 220 to 300 hours.*
	*Final Engineering Analysis Documentation **	*LS*	*1*	*180*	*180*	*Compile, organize, produce FINAL report. Suggested range for 2 or more build alternatives and no-build with many issues 160 to 200 hours.*
	4.21 Engineering Analysis Documentation Total				**440**	
4.22	**Planning Consistency**					*N/A*
	4.22.1 Transportation Plans	*LS*	*1*	*0*	*0*	*N/A*
	*4.22.2 Planning Consistency Forms **	*LS*	*1*	*0*	*0*	*N/A*
	4.22 Planning Consistency Total				**0**	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
4.23	**Transit Systems, Service, and Design**					N/A
	4.23.1 Transit Concepts and Alternatives					
	Review of Transit Concepts and Alternatives Report (TCAR)	LS	1	0	0	N/A
	*Develop Transit Concepts and Alternatives Report **	LS	1	0	0	N/A
	*4.23.2 Existing and Planned Transit Infrastructure and Services **	LS	1	0	0	N/A
	4.23.3 Connectivity and Accessibility	LS	1	0	0	N/A
	*4.23.4 Transit Operational Analysis **	LS	1	0	0	N/A
	4.23.5 Ridership and Revenue Estimations					N/A
	*Ridership and Revenue Forecasts **	LS	1	0	0	N/A
	*Operating and Ridership Sensitivity Testing **	LS	1	0	0	N/A
	*Ridership and Revenue Results Documentation **	LS	1	0	0	N/A
	4.23.6 Proposed Transit Service and Operating Plan	LS	1	0	0	N/A
	*4.23.7 Transit Infrastructure Alternatives **	LS	1	0	0	N/A
	*4.23.8 Transit Design Concepts **	LS	1	0	0	N/A
	*4.23.9 Transit Station / Facility Alternatives and Concepts **	LS	1	0	0	N/A
	*4.23.10 Transit Safety, Security, and Collision Hazard **	LS	1	0	0	N/A
	*4.23.11 Project Management Plan **	LS	1	0	0	N/A
	4.23.12 Transit Cost Estimates and Financial Commitments	LS	1	0	0	N/A
	*4.23.13 Project Delivery Method and Contracting Plan **	LS	1	0	0	N/A
	*4.23.14 Constructability Review **	LS	1	0	0	N/A
	4.23.15 Third Party Agreements	LS	1	0	0	N/A
	*4.23.16 Transit Engineering and Design Documentation **	LS	1	0	0	N/A
	*4.23.17 Federal Transit Grant Program Documentation **	EA	0	0	0	N/A
	4.23 Transit Systems, Service, and Design Total				**0**	
	Engineering Analysis and Report Subtotal				**2028**	
	Hours Subject to QC				**1992**	
	Quality Assurance / Quality Control	LS	%	8%	159	
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				**2187**	

Estimator: J. Keith Jackson, PE

Alden Road Connector Bridge Project PD&E Stage 3 (Alternative Analysis)
P-13-17

Representing	Print Name	Signature / Date
STV incorporated	J. Keith Jackson, PE	
City of Jacksonville	Gary Goldsberry, PE	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
5.1	**Sociocultural Effects**					*N/A*
	*5.1 Socio-cultural Effects Evaluation Report **	*LS*	*1*	*0*	*0*	*N/A*
	*5.1.1 Social **	*LS*	*1*	*0*	*0*	*N/A*
	*5.1.2 Economic **	*LS*	*1*	*0*	*0*	*N/A*
	*5.1.3 Land Use Changes **	*LS*	*1*	*0*	*0*	*N/A*
	*5.1.4 Mobility **	*LS*	*1*	*0*	*0*	*N/A*
	*Transit Only **	*LS*	*1*	*0*	*0*	*N/A*
	*5.1.5 Aesthetics **	*LS*	*1*	*0*	*0*	*N/A*
	5.1.6 Relocation Potential					*N/A*
	*Review and Impact Determination **	*LS*	*1*	*0*	*0*	*N/A*
	*Conceptual Stage Relocation Plan (CSRP) **	*LS*	*1*	*0*	*0*	*N/A*
				5.1 Sociocultural Effects Total	**0**	
5.2	**Cultural Resources**					***See SEARCH's Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively.***
	5.2.1 Archaeological and Historic Resources					
	Research Design Methodology	*LS*	*1*	*0*	*0*	
	*Cultural Resource Assessment Survey (CRAS) **	*LS*	*1*	*0*	*0*	
	CRAS Addendum or Technical Memo. for Pond Sites	*LS*	*1*	*0*	*0*	
	Determination of Eligibility (DOE) As Required	*LS*	*1*	*0*	*0*	
	*Case Study Report **	*LS*	*1*	*0*	*0*	
	*Memorandum of Agreement (MOA) **	*LS*	*1*	*0*	*0*	
	Section 4(f) Evaluation for Historic Resources	*LS*	*1*	*0*	*0*	
	Section 106 Consultation Meetings	*LS*	*1*	*0*	*0*	
	Native American Coordination Meeting	*LS*	*1*	*0*	*0*	
	Section 106 Public Involvement	*LS*	*1*	*0*	*0*	
	*5.2.2 Recreation Section 4(f) **					
	Section 4(f) Determination of Applicability	*EA*	*0*	*0*	*0*	
	*Section 4(f) "de minimis" documentation **	*EA*	*0*	*0*	*0*	
	*Section 4(f) Evaluation **	*EA*	*0*	*0*	*0*	
				5.2 Cultural Resources Total	**6**	*Average of 1 hour per month for STV to coordinate with SEARCH over 6 months (6 hrs)*

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
5.3	**Natural Resources**					
	5.3.1 Wetlands					***See ERS's Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively.***
	Wetlands - Data Collection	*LS*	*1*	*0*	*0*	
	*Wetlands - Evaluation **	*LS*	*1*	*0*	*0*	
	5.3.2 Essential Fish Habitat					
	Essential Fish Habitat - Data Collection	*LS*	*1*	*0*	*0*	
	*Essential Fish Habitat - Evaluation **	*LS*	*1*	*0*	*0*	
	*Conceptual Mitigation Plan **	*LS*	*1*	*0*	*0*	
	5.3.3 Wildlife and Habitat					
	Data Collection	*LS*	*1*	*0*	*0*	
	Specific Survey and Consultation	*LS*	*1*	*0*	*0*	
	*Analysis **	*LS*	*1*	*0*	*0*	
	*Conservation Measures and Mitigation Plan **	*LS*	*1*	*0*	*0*	
	5.3.4 Natural Resources Evaluation (NRE) Report	*LS*	*1*	*0*	*0*	
	*5.3.5 Water Quality **	*LS*	*1*	*0*	*0*	
	*5.3.6 Special Designations **	*LS*	*1*	*0*	*0*	
	*5.3.7 Identify Permit Needs **	*LS*	*1*	*0*	*0*	
	*5.3.8 Farmlands **	*LS*	*1*	*0*	*0*	
				5.3 Natural Resources Total	**12**	*Average of 2 hour per month for STV to coordinate with ERS over 6 months (12 hrs)*
5.4	**Physical Effects**					
	5.4.1 Noise					***See ETP's Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively.***
	Methodology Meeting	*LS*	*1*	*0*	*0*	
	*Data Collection **	*LS*	*1*	*0*	*0*	
	Land Use Field Review/Outdoor Advertising Identification	*LS*	*1*	*0*	*0*	
	*Field Measurement and Model Validation **	*LS*	*1*	*0*	*0*	
	Outdoor Advertising Identification	*LS*	*1*	*0*	*0*	
	Construction Noise and Vibration	*LS*	*1*	*0*	*0*	
	*Analysis and Noise Abatement Evaluation **	*EA*	*0*	*0*	*0*	
	*Noise Report **	*LS*	*1*	*0*	*0*	

5. ENVIRON. ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*5.4.2 Transit Noise and Vibration Analysis **	*LS*	*1*	*0*	*0*	*N/A*
	5.4.3 Air Quality					*N/A*
	*Data Collection **	*LS*	*1*	*0*	*0*	*N/A*
	*Screening Analysis **	*LS*	*1*	*0*	*0*	*N/A*
	*Air Quality Modeling **	*LS*	*1*	*0*	*0*	*N/A*
	*5.4.4 Construction Impact Analysis **	*LS*	*1*	*0*	*0*	*N/A*
	5.4.5 Contamination					
	*Field Data **	*LS*	*1*	*0*	*0*	***See Terracon's Staff Hour Sheets and Fee Proposal for detailed information. Summary of staff hours and fee are shown on pages 2 and 4, respectively.***
	*Analysis and Report **	*LS*	*1*	*0*	*0*	
				5.4 Physical Effects Total	**12**	*Average of 2 hour per month for STV to coordinate with ETP and Terracon over 6 months (12 hrs)*
5.5	**Cumulative Effects Evaluation ***	EA	0	0	0	*N/A*
5.6	**Project Commitments Record ***	LS	1	0	0	*N/A*
				Environmental Analysis and Report Subtotal	**30**	
				Hours Subject to QC	**48**	
	Quality Assurance / Quality Control	LS	%	8%	4	*To review and harmonize CRAS, NRE, NIA, CSER reports with PER*
				ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS	**34**	

CSI Geo
Geotechnical · CMT · CEI

January 11, 2018

Mr. Keith Jackson, P.E.
STV
5200 Belfort Road, Suite 400
Jacksonville, FL 32256

Re: Alden Road Connector Roadway and Bridge Project PD&E
from St. Johns Bluff Road to Kernan Boulevard South
P-13-17
Duval County, Florida

Dear Mr. Jackson:

Attached please find our geotechnical approach, cost estimate, the staff hour back up, and the PD&E staff hour form. Our geotechnical services for the PD&E phase of this project are estimated to cost $48194.13

We appreciate your selection of CSI Geo, Inc. for these services and look forward to serving you as your geotechnical consultant on this and other future projects. If you have any questions, please do not hesitate to call.

Sincerely,

CSI Geo, Inc.

Bruce Khosrozadeh, P.E.
Senior Vice President

CSI Geo, Inc.
2394 St. Johns Bluff Road S, #200 • Jacksonville, Florida 32246 • (904) 641-1993 • Fax 645-0057

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GEOTECHNICAL SCOPE OF WORK
Alden Road Connector Roadway and Bridge Project PD&E
from St. Johns Bluff Road to Kernan Boulevard South
P-13-17
Duval County, Florida

PROPOSED GEOTECHNICAL EXPLORATION

General - This is the Project Development and Environmental Studies Phase for construction of approximately 1600 LF of bridge and 400LF of roadway to connect Alden Road over the existing wetlands located between Cavalry Blvd and Coachman Lakes Drive.

Field Exploration

The proposed exploration will consist of preliminary geotechnical studies and the collection of preliminary subsurface data as follows:

Roadway –The preliminary roadway exploration during this phase will consist of two Standard Penetration Test (SPT) borings along the roadway alignment performed at 15' deep each. Sufficient testing will be performed on soils recovered from the borings for classification purposes. Representative soil samples will also be obtained for pipe corrosion testing. Work will also include review of the encountered ground water levels and estimation of the seasonal high ground water levels.

Bridge – For the PD&E phase for the bridge structure, three Standard Penetration Test (SPT) borings will be performed at 100' deep each along the alignment of the proposed bridge. Corrosion series testing of the water and soil from the bridge area will also be performed following the FDOT Soils and Foundations Handbook. Additionally D50 grain sizing will be collected and tested for the bridge hydraulic report. Sufficient testing will be performed on soils recovered from the borings for classification purposes.

Laboratory Testing - Routine laboratory testing will be conducted on representative soil samples to determine classification, and aggressiveness. Laboratory classification and index soil tests will be performed as necessary on selected soil samples obtained from the exploration. Specific tests to be performed are Organic Content, Moisture Content, Percent Fines, Grain Size Analysis, Atterberg Limits, Environmental/Corrosion Testing, and Consolidation Testing.

Engineering/Support Services - A geotechnical engineer, registered in the State of Florida, will direct the preliminary geotechnical exploration and provide preliminary engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction. The results of the exploration will be presented in a preliminary report containing the following:

- A brief discussion of the planned construction.
- A graphical representation of the subsurface conditions encountered as well as the existing on-site conditions, such as topography, surface vegetation, encountered and seasonal high water tables, etc., as they relate to the planned construction.
- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, the soil stratification (i.e. soils grouped into layers of similar materials) and construction recommendations relative to Standard Indices 500 and 505.
- An appendix that contains stratified soil boring profiles, laboratory test data sheets, and other pertinent calculations.
- Written discussion of the subsurface conditions encountered.
- Preliminary evaluation of the subsurface soils and preliminary recommendations concerning the suitability of the subsurface soils for support of the planned roadway.
- D50 test results on creek soils.
- Pile capacity curves for precast driven concrete piles for the bridge foundations.
- Preliminary recommendations for the required site preparation and earthwork construction.

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Alden Road (PD&E)	2. Proposal Number COJ P-13-17
3. Name of Consultant CSI Geo, Inc.	4. Date of Proposal 2/26/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$66.49	5	$332.45	
Project Engineer	$40.90	19	$777.10	
Staff Engineer	$38.00	25	$950.00	
CADD/Computer Tech	$30.05	25	$751.25	
Geotechnical Technician	$25.00	19	$475.00	
Clerical	$17.00	6	$102.00	
TOTAL DIRECT LABOR		99	Hours	$3,387.80
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$5,928.68
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$9,316.48
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$931.65

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs	$ $ $ $	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)	$ $	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$10,248.13
11. REIMBURSABLE COSTS (Limiting Amount) Geotechnical Investigation	$ 37,946.00	
SUB-TOTAL REIMBURSABLES		$37,946.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$48,194.13**

EXHIBIT G

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Geotechnical Cost Estimate

Alden Road Connector Roadway and Bridge Project PD&E
from St. Johns Bluff Road to Kernan Boulevard South
P-13-17
Duval County, Florida

2394 St. Johns Bluff Road, Ste 200
Jacksonville, Florida 32246
tel (904) 641-1993
fax (904) 645-0057

Geotechnical Item	Unit	Number of Units	Cost / Unit	Estimated Cost
Field Investigation				
Crew & Equipment Mobilization / Demobilization:				
Mobilization/Demobilization-Amphibious	ea.	1	$9,100.00 /ea.	$9,100.00
Roadway Borings:				
2 Standard Penetration Test (SPT) Borings @ 15' ea:	lin. ft.	30	$24.00 /lin. ft.	$720.00
Undisturbed Sample-Thin wall Shelby tube	ea.	2	$210.00 /lin. ft.	$420.00
Bridge Borings:				
3 SPT Borings @ 100' ea:				
0-50'	lin. ft.	150	$24.00 /lin. ft.	$3,600.00
50'-100'	lin. ft.	150	$26.50 /lin. ft.	$3,975.00
Extra Split Spoon Sample				
0-50'	ea.	24	$38.00 /ea.	$912.00
50'-100'	ea.	30	$44.00 /ea.	$1,320.00
3" Casing to Stablize Borehole				
0-50'	lin. ft.	75	$16.00 /lin. ft.	$1,200.00
50'-100'	lin. ft.	0	$18.75 /lin. ft.	$0.00
Undisturbed Sample-Thin wall Shelby tube				
0-50'	ea.	6	$210.00 /ea.	$1,260.00
50'-100'	ea.	0	$230.00 /ea.	$0.00
Grout Boreholes				
0-50'	lin. ft.	150	$7.00 /lin. ft.	$1,050.00
50'-100'	lin. ft.	150	$8.00 /lin. ft.	$1,200.00
Clearing / Difficult Access	hr.	25	$295.00 /hr.	$7,375.00
	Subtotal:			**$32,132.00**
Laboratory Testing				
Moisture Content of Soils	ea.	14	$21.00 /ea.	$294.00
Organic Content in Soils	ea.	14	$37.00 /ea.	$518.00
Material Finer Than No.200 Sieve	ea.	14	$35.00 /ea.	$490.00
Grain Size Analysis	ea.	7	$67.00 /ea.	$469.00
Plastic limit of soil	ea.	7	$49.00 /ea.	$343.00
Liquid limit of soil	ea.	7	$50.00 /ea.	$350.00
Corrosion Series Test - (Environmental Corrosion)	ea.	6	$225.00 /ea.	$1,350.00
Consolidation	ea.	4	$500.00 /ea.	$2,000.00
	Subtotal:			**$5,814.00**
Engineering/Support Services				
Project Manager	hr.	5	$201.13 /hr.	$1,005.65
Project Engineer	hr.	19	$123.72 /hr.	$2,350.68
Staff Engineer	hr.	25	$114.95 /hr.	$2,873.75
CADD/Computer Technician	hr.	25	$90.90 /hr.	$2,272.50
Geotechnical Technician	hr.	19	$75.63 /hr.	$1,436.97
Secretary/Clerical	hr.	6	$51.43 /hr.	$308.58
	Subtotal:			**$10,248.13**

ESTIMATED TOTAL: **$48,194.13**

* See Project Activity 35, for detailed man hours

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 1/0/1900

Project Name: Alden Road Connector Roadway and Bri

FAP Number: 0

Date: 1/19/2018

Name of Consultant: CSI Geo, Inc.

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD
	Firm Total	Project Manager	Project Engineer	Staff Engineer	CADD/Computer Technician	Geotechnical Technician	Secretary/Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE		
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours			PERCENT
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	99	5	19	25	25	19	6	0	0	0	0	0	0	99	109	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	99	5	19	25	25	19	6	0	0	0	0	0	0	**99**	**109**	

Field Survey Estimate:
0 4-person crew days

FIRM TOTAL	99	109	

Notes:
1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 1/0/1900

Project Name: Alden Road Connector Roadway and Bri

FAP Number: 0

Date: 1/19/2018

Name of Consultant: CSI Geo, Inc.

Staff Hour Distribution Percentages - Firm Total

	Hours from "Summary" sheet Firm Total	Project Manager	Project Engineer	Staff Engineer	CADD/Computer Technician	Geotechnical Technician	Secretary/Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
5. Roadway Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6a. Drainage Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	99	5.0%	19.0%	25.0%	25.0%	19.0%	7.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Alden Road Connector Roadway and Bridge Project PD&E
County: Duval
FPN: 0
FAP No.: 1/0/1900

Consultant Name: CSI Geo, Inc.
Consultant No.: enter consultants proj number
Date: 1/11/18
Estimator: Bruce Khosrozadeh

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Project Engineer	Staff Engineer	CADD/Computer Technician	Geotechnical Technician	Secretary/Clerical	Staff Classi-fication 7	Staff Classi-fication 8	Staff Classi-fication 9	Staff Classi-fication 10	Staff Classi-fication 11	Staff Classi-fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$201.13	$123.72	$114.95	$90.90	$75.63	$51.43	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
35. Geotechnical	99	5	19	25	25	19	6	0	0	0	0	0	0	99	$10,248	$103.52
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	99	5	19	25	25	19	6	0	0	0	0	0	0	99		
Total Staff Cost		$1,005.65	$2,350.68	$2,873.75	$2,272.50	$1,436.97	$308.58	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$10,248.13**	**$103.52**

Check = $10,248.13

SALARY RELATED COSTS:				$10,248.13
OVERHEAD:	0%			$0.00
OPERATING MARGIN:	0%			$0.00
FCCM (Facilities Capital Cost Money):	0.00%			$0.00
EXPENSES:	0.00%			$0.00
SUBTOTAL ESTIMATED FEE:				**$10,248.13**
Survey (Field)	0	4-person crew	$ - / day	$0.00
Geotechnical Field and Lab Testing				$37,946.00
SUBTOTAL ESTIMATED FEE:				**$48,194.13**
Optional Services				$0.00
GRAND TOTAL ESTIMATED FEE:				**$48,194.13**

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.

35. Geotechnical

Estimator:

Alden Road Connector Roadway and Bridge Project PD&E
0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	CSI Geo, Inc.	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	1	2	2	
35.2	Develop Detailed Boring Location Plan	LS	1	1	1	The preliminary roadway exploration during this phase will consist of two Standard Penetration Test (SPT) borings along the roadway alignment performed at 15' deep each. Sufficient testing will be performed on soils recovered from the borings for classification purposes. Representative soil samples will also be obtained for pipe corrosion testing. Work will also include review of the encountered ground water levels and estimation of the seasonal high ground water levels.
35.3	Stake Borings/Utility Clearance	Boring	2	0.5	1	2
35.4	Muck Probing	Crew Day	0	0	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	0	16	0	
35.6	Drilling Access Permits	Location	0	4	0	
35.7	Property Clearances	EA	0	0	0	
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR/Resilient Modulus Sampling	EA	0	8	0	
35.10	Coordination of Field Work	100 lf of boring	0.3	1	0	30
35.11	Soil and Rock Classification - Roadway	100 lf of boring	0.3	1	0	
35.12	Design LBR	LS	0	0	0	
35.13	Laboratory Data	100 lf of boring	0.3	1	0	
35.14	Seasonal High Water Table	Boring	2	0.1	0	
35.15	Parameters for Water Retention Areas	EA	0	1	0	0
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	10	0	
35.17	Electronic Files for Cross-Sections	100 lf of boring	0	0.5	0	
35.18	Embankment Settlement and Stability	Embankment Boring	4	2	8	
35.19	Monitor Existing Structures	LS	0	10	0	

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	
35.21	Geotechnical Recommendations	LS	1	5	5	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	0	0	
35.23	Preliminary Roadway Report	LS	1	10	10	Preliminary evaluation of the subsurface soils and preliminary recommendations concerning the suitability of the subsurface soils for support of the planned roadway. Preliminary recommendations for the required site preparation and earthwork construction.
35.24	Final Report	EA	0	25	0	
35.25	Auger Boring Drafting	100 lf boring	0	2.5	0	0
35.26	SPT Boring Drafting	100 lf boring	0.3	4	1	30
			Roadway Geotechnical Subtotal		**28**	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	1	1	1	For the PD&E phase for the bridge structure, three Standard Penetration Test (SPT) borings will be performed at 100' deep each along the alignment of the proposed bridge. Corrosion series testing of the water and soil from the bridge area will also be performed following the FDOT Soils and Foundations Handbook. Additionally D50 grain sizing will be collected and tested for the bridge hydraulic report.
35.28	Stake Borings/Utility Clearance	Boring	3	0.5	2	3
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	0	8	0	
35.30	Drilling Access Permits	Location	0	4	0	
35.31	Property Clearances	EA	0	8	0	
35.32	Collection of Corrosion Samples	EA	1	2	2	
35.33	Coordination of Field Work	100 lf of boring	3	1	3	300
35.34	Soil and Rock Classification - Structures	100 lf of boring	3	1	3	
35.35	Tabulation of Laboratory Data	100 lf of boring	3	1	3	
35.36	Estimate Design Groundwater Level for Structures	EA	3	0.2	1	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	3	3	9	
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	3	0	
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	2	0	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	
35.41	Walls	Wall Boring	0	2	0	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	2	0	0

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	1	0	0
35.44	Box Culvert Analysis	EA	0	4	0	0
35.45	Preliminary Report - BDR	EA	1	20	20	D50 test results on creek soils. Pile capacity curves for precast driven concrete piles for the bridge foundations.
35.46	Final Report - Bridge and Associated Walls	EA	0	25	0	
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	35	0	
35.48	SPT Boring Drafting	100 lf of boring	3	4	12	300
35.49	Other Geotechnical	LS	0	20	0	
				Structural Geotechnical Subtotal	**56**	
				Geotechnical Technical Subtotal	**84**	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	
35.51	Field Reviews	LS	1	4	4	
35.52	Technical Meetings	LS	1	2	2	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	3%	3	
35.54	Supervision	LS	%	3%	3	
				Geotechnical Nontechnical Subtotal	**12**	
35.55	Coordination	LS	%	3%	3	
				35. Geotechnical Total	**99**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Boring Layout Approval	EA	0	2	0		0
Attend in BDR Review Meeting	EA	0	0	0		0
30/60/90% Submittal Review	EA	0	2	0		0
Other Meetings	EA	1	2	2		0
Subtotal Technical Meetings				**2**	**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)	EA	0	0	0	*PM attendance at Progress Meetings is manually entered on General Task 3*	- -
Phase Review Meetings	EA	0	0	0	*PM attendance at Phase Review Meetings is manually entered on General Task 3*	- -
Total Meetings				**2**	**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 33.18

Carries to Tab 3

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Alden Road Connector Roadway and Bridge Project PD&E
County: Duval
FPN: 0
FAP No.: 0

Consult. Name: CSI Geo
Consult. No. enter consultants proj number
Date: 1/11/18
Estimator: Bruce Khosrozadeh

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Project Engineer	Staff Engineer	CADD/Computer Technician	Geotechnical Technician	Secretary/Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$201.13	$123.72	$114.96	$80.90	$75.63	$51.43	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
Project Description and Objectives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Engineering Analysis & Report	99	5	19	25	25	19	6	0	0	0	0	0	0	99	$10,248	$103.52
Environmental Analysis & Reports	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	99	5	19	25	25	19	6	0	0	0	0	0	0	99		
Total Staff Cost		$1,005.65	$2,350.68	$2,873.75	$2,272.50	$1,436.97	$308.58	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$10,248.13**	**$103.52**

Check = $10,248.13

SALARY RELATED COSTS:		$10,248.13
OVERHEAD:	0.00%	$0.00
OPERATING MARGIN:	0.00%	$0.00
FCCM (Facilities Capital Cost Money):	0.00%	$0.00
EXPENSES:	0.00%	$0.00
SALARY RELATED SUBTOTAL:		**$10,248.13**
Geotechnical Field and Lab Testing		$37,946.00
SUBTOTAL - SUBCONSULTANT		**$48,194.13**
Optional Services		$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:		**$48,194.13**

Note:
1. This sheet to be used by Subconsultant to calculate its fee.

4. ENG ANALYSIS & REPORTS

Estimator:

Alden Road Connector Roadway and Bridge Project PD&E

0

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
4.1	**Review of Previous Studies**	LS	1	0	0	
4.2	**Existing Conditions Analysis**					
	Data Collection	*LS*	*1*	*0*	*0*	
	Field Review	*LS*	*1*	*0*	*0*	
				4.2 Existing Conditions Analysis Total	**0**	
4.3	**Survey**					
	*4.3.1 Survey Design **	*LS*	*1*	*0*	*0*	
	Survey Coordination	*LS*	*1*	*0*	*0*	
	*4.3.2 Photogrammetry **	*LS*	*1*	*0*	*0*	
	Aerial Photography	*LS*	*1*	*0*	*0*	
				4.3 Survey Total	**0**	
4.4	**Geotechnical Investigation**					
	Soils	*LS*	*1*	*99*	*99*	
	Geotechnical Coordination	*LS*	*1*	*0*	*0*	
	*Geotechnical Design Services **	*LS*	*1*	*0*	*0*	
				4.4 Geotechnical Investigation Total	**99**	
4.5	**Traffic Analysis**					
	*4.5.1 Traffic Analysis Methodology **	*LS*	*1*	*0*	*0*	
	*4.5.2 Turning Movement Counts **	*LS*	*1*	*0*	*0*	
	*4.5.3 Vehicle Class. Counts on Roadway Segments and Ramps **	*LS*	*1*	*0*	*0*	
	*4.5.4 Pedestrian, Bicycle, and Other Multimodal Data **	*LS*	*1*	*0*	*0*	
	*4.5.5 Calibration and Validation Data **	*LS*	*1*	*0*	*0*	
	*4.5.6 Existing Traffic Operational Analysis **	*LS*	*1*	*0*	*0*	
	*4.5.7 Model Calibration and Validation **	*LS*	*1*	*0*	*0*	
	*4.5.8 Future Demand Forecasting **	*LS*	*1*	*0*	*0*	
	*4.5.9 No-Build Analysis **	*LS*	*1*	*0*	*0*	
	*4.5.10 Development and Screening of Alternatives **	*LS*	*1*	*0*	*0*	
	*4.5.11 Operational Evaluation of Build Alternatives **	*LS*	*1*	*0*	*0*	
	*4.5.12 Project Traffic Analysis Report **	*LS*	*1*	*0*	*0*	
	*4.5.13 Interchange Access Request **	*LS*	*1*	*0*	*0*	
	*4.5.14 Traffic Data for Noise Study **	*EA*	*0*	*0*	*0*	
	*4.5.15 Traffic Data for Air Analysis **	*EA*	*0*	*0*	*0*	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*4.5.16 Signalization Analysis **	*LS*	*1*	*0*	*0*	
				4.5 Traffic Analysis Total	**0**	
4.6	**Signage ***	LS	1	0	0	
4.7	**Tolling Concepts ***	LS	1	0	0	
4.8	**Safety**					
	*4.8.1 Crash Data **	*LS*	*1*	*0*	*0*	
	4.8.2 Safety Analysis					
	*Historical Crash Analysis **	*LS*	*1*	*0*	*0*	
	*HSM Safety Analysis **	*LS*	*1*	*0*	*0*	
	*4.8.3 Documentation of Safety Analysis **	*LS*	*1*	*0*	*0*	
				4.8 Safety Total	**0**	
4.9	**Utilities and Railroads**					
	*4.9.1 Utilities **	*EA*	*1*	*0*	*0*	
	*4.9.2 Railroad **	*EA*	*1*	*0*	*0*	
				4.9 Utilities and Railroads Total	**0**	
4.10	**Roadway Analysis**					
	*4.10.1 Design Controls and Criteria **	*LS*	*1*	*0*	*0*	
	*4.10.2 Typical Section Analysis **	*EA*	*0*	*0*	*0*	
	*4.10.3 Geometric Design**	*LS*	*1*	*0*	*0*	
	*4.10.4 Intersections and Interchange Evaluation **	*EA*	*0*	*0*	*0*	
	*4.10.5 Access Management **	*LS*	*1*	*0*	*0*	
	*4.10.6 Multimodal Accommodations **	*LS*	*1*	*0*	*0*	
	*4.10.7 Maintenance of Traffic **	*LS*	*1*	*0*	*0*	
	*4.10.8 Lighting **	*LS*	*1*	*0*	*0*	
				4.10 Roadway Total	**0**	
4.11	**Identify Construction Segments ***	LS	1	0	0	
4.12	**Transportation Systems Management and Ops ***	LS	1	0	0	
4.13	**Structures**					
	*4.13.1 Existing Structure **	*EA*	*0*	*0*	*0*	
	*4.13.2 Structures Typical Section **	*EA*	*0*	*0*	*0*	
	*4.13.3 Structure Design Alternatives **	*EA*	*0*	*0*	*0*	
				4.13 Structures Total	**0**	
4.14	**Drainage**					
	*4.14.1 Floodplain and Environmental Permit Data Collection **	*LS*	*1*	*0*	*0*	
	*4.14.2 Drainage Analysis **	*Per Basin*	*0*	*0*	*0*	
	*4.14.3 Floodplain Compensation Analysis **	*Per Encroach.*	*0*	*0*	*0*	
	*4.14.4 Stormwater Management Analysis **					
	Enviro. Look Around (ELA) Meeting and Pond Siting Meetir	*LS*	*1*	*0*	*0*	
	*Stormwater Management **	*Per Basin*	*0*	*0*	*0*	
	*4.14.5 Drainage Design **	*LS*	*1*	*0*	*0*	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*4.14.6 Location Hydraulic Report **	*LS*	*1*	*0*	*0*	
	*4.14.7 Bridge Hydraulic Report **	*EA*	*0*	*0*	*0*	
				4.14 Drainage Total	**0**	
4.15	**Landscaping Analysis ***	LS	1	0	0	
4.16	**Construction and Right of Way Cost Estimates**					
	*4.16.1 Construction Cost Estimates **	*LS*	*1*	*0*	*0*	
	*4.16.2 Right of Way Cost Estimates **	*LS*	*1*	*0*	*0*	
				4.16 Construction and Right of Way Cost Estimates Total	**0**	
4.17	**Alternatives Evaluation ***					
	*4.17.1 Comparative Alternatives Evaluation **	*LS*	*1*	*0*	*0*	
	*4.17.2 Selection of Recommended Alternative(s) **	*LS*	*1*	*0*	*0*	
	*4.17.3 Value Engineering Study **	*LS*	*1*	*0*	*0*	
				4.17 Alternatives Evaluation Total	**0**	
4.18	**Concept Plans ***					
	*4.18.1 Base Map **	*Sheet*	*1*	*0*	*0*	
	*4.18.2 Alternative Concept Plans **	*Sheet*	*0*	*0*	*0*	
	*4.18.3 Preferred Alternative Plans **	*Sheet*	*0*	*0*	*0*	
	*4.18.4 Typical Section Package **	*LS*	1	*0*	*0*	
	*4.18.5 Design Exceptions and Variations **	*EA*	*0*	*0*	*0*	
				4.18 Concept Plans Total	**0**	
4.19	**Transportation Systems Management Plan ***	LS	1	0	0	
4.20	**Risk Management**	LS	1	0	0	
4.21	**Engineering Analysis Documentation ***					
	*Draft Engineering Analysis Documentation**	*LS*	*1*	*0*	*0*	
	*Final Engineering Analysis Documentation **	*LS*	*1*	*0*	*0*	
				4.21 Engineering Analysis Documentation Total	**0**	
4.22	**Planning Consistency**					
	4.22.1 Transportation Plans	*LS*	*1*	*0*	*0*	
	*4.22.2 Planning Consistency Forms **	*LS*	*1*	*0*	*0*	
				4.22 Planning Consistency Total	**0**	
4.23	**Transit Systems, Service, and Design**					
	4.23.1 Transit Concepts and Alternatives					
	Review of Transit Concepts and Alternatives Report (TCAR	*LS*	*1*	*0*	*0*	
	*Develop Transit Concepts and Alternatives Report **	*LS*	*1*	*0*	*0*	
	*4.23.2 Existing and Planned Transit Infrastructure and Services **	*LS*	*1*	*0*	*0*	
	4.23.3 Connectivity and Accessibility	*LS*	*1*	*0*	*0*	
	*4.23.4 Transit Operational Analysis **	*LS*	*1*	*0*	*0*	
	4.23.5 Ridership and Revenue Estimations					
	*Ridership and Revenue Forecasts **	*LS*	*1*	*0*	*0*	
	*Operating and Ridership Sensitivity Testing **	*LS*	*1*	*0*	*0*	

4. ENG ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Ridership and Revenue Results Documentation **	*LS*	*1*	*0*	*0*	
	4.23.6 Proposed Transit Service and Operating Plan	*LS*	*1*	*0*	*0*	
	*4.23.7 Transit Infrastructure Alternatives **	*LS*	*1*	*0*	*0*	
	*4.23.8 Transit Design Concepts **	*LS*	*1*	*0*	*0*	
	*4.23.9 Transit Station / Facility Alternatives and Concepts **	*LS*	*1*	*0*	*0*	
	*4.23.10 Transit Safety, Security, and Collision Hazard **	*LS*	*1*	*0*	*0*	
	*4.23.11 Project Management Plan **	*LS*	*1*	*0*	*0*	
	4.23.12 Transit Cost Estimates and Financial Commitments	*LS*	*1*	*0*	*0*	
	*4.23.13 Project Delivery Method and Contracting Plan **	*LS*	*1*	*0*	*0*	
	*4.23.14 Constructability Review **	*LS*	*1*	*0*	*0*	
	4.23.15 Third Party Agreements	*LS*	*1*	*0*	*0*	
	*4.23.16 Transit Engineering and Design Documentation **	*LS*	*1*	*0*	*0*	
	*4.23.17 Federal Transit Grant Program Documentation **	*EA*	*0*	*0*	*0*	
	4.23 Transit Systems, Service, and Design Total				**0**	
	Engineering Analysis and Report Subtotal				**99**	
	Hours Subject to QC				**0**	
	Quality Assurance / Quality Control	LS	%	0%	0	
	ENGINEERING ANALYSIS AND REPORT TOTAL HOURS				**99**	

DRMP, INC.

PRINCIPALS
Wayne D. Chalifoux
Donaldson K. Barton, Jr.
Glenn J. Lusink
Jon S. Meadows
Mark D. Prochak
Mark E. Puckett
Lawrence L. Smith, Jr.

CELEBRATING 40 years DRMP, INC.

DRMP

8001 Belfort Parkway, Suite 200, Jacksonville, Florida 32256
Phone: 904.641.0123 | Fax: 904.641.8858

November 17, 2017

SENT VIA EMAIL
Keith Jackson, PE
STV Incorporated
5200 Belfort Road, Suite 400
Jacksonville, FL 32256

Subject: **City of Jacksonville Alden Road Survey and Subsurface Utility Engineering Scope**

Dear Mr. Jackson:

PART I SCOPE OF SERVICES

PROJECT CONTROL

DRMP will establish Horizontal and Vertical Control for the project. The Horizontal Control shall be referenced to Florida State Plane Coordinates, East Zone, North American Datum 1983 (NAD83), US Feet, Third Order, Class II accuracy. The Vertical Control shall be referenced to North American Vertical Datum of 1988 (NAVD88). Vertical Control Point - Bench Marks shall be set at a maximum of 1,000 foot intervals, and be Third Order accuracy.

ALIGNMENTS/SUBDIVISIONS

DRMP will establish the existing alignments of Alden Road, east and west of Cedar Swamp Creek. This effort will include tying down the adjacent subdivisions, Coachman Lakes, Unit 1, Plat Book 53, Page 51; Coachman Meadows, Unit 1, Plat Book 54, Page 89 and Richmond Place, Plat Book 55, Page 82 and the adjacent City of Jacksonville parcel RE#165286 0800.

PROFILE

DRMP will provide a centerline profile along the existing alignments based on the most current available LIDAR Data. We will take several check shots within the project limits to verify the accuracy of the LIDAR Data.

ORDINARY HIGHWATER

DRMP will locate and provide the elevations of the Ordinary Highwater Marks within the project limits. This effort will consist of locating several points within the Cedar Swamp Creek corridor, placing a nail at the mark and obtaining the elevation of the nail.

SPECIMEN TREES

DRMP will locate any Specimen Trees that are found within the project corridor. This effort does not include a tree survey to the City of Jacksonville Standards.

DRAINAGE SURVEY

DRMP will provide a drainage survey of the existing Storm Water Management Facilities within the projects limits. This effort will consist of obtaining water elevation of each facility, control structure location and elevation details of each control structure. It will also consist of obtaining drainage pipes

OFFICES
Boca Raton, Florida
Charlotte, North Carolina
Chipley, Florida
Fort Myers, Florida
Gainesville, Florida
Jacksonville, Florida
Lakeland, Florida
Melbourne, Florida
Orlando, Florida
Panama City, Florida
Pensacola, Florida
Raleigh, North Carolina
Tallahassee, Florida
Tampa, Florida

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and structures locations and elevations on drainage system pipes that connect ponds, system pipes along Alden Road and pump station and outfall pipes on the city Storm Water Management facility.

SUBSURFACE UTILITY ENGINEERING

DRMP will provide utility designation along the project corridor. This effort will consist of obtaining utility as-builts from the utility companies and field locating their facilities.

SOIL BORINGS

DRMP will locate seven (7) soil borings. This effort will consist of providing the horizontal and vertical location of each boring.

Fee: $32,191.63

Sincerely,
DRMP, Inc.

C. William Faust, III, PSM
Jacksonville Survey Manager

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Alden Road (PD&E)	2. Proposal Number COJ P-13-17
3. Name of Consultant DRMP	4. Date of Proposal 1/31/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal Manager	$60.58	9	$545.22	
Project Manager	$48.08	22	$1,057.76	
Survey Technician	$36.06	53	$1,911.18	
Clerical	$22.54	4	$90.16	
TOTAL DIRECT LABOR		88	Hours	$3,604.32
6. Overhead (Combined Fringe Benefit & Administrative)			150%	$5,406.54
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$9,010.86
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$901.09

PART III - OTHER COSTS			
9. Miscellaneous Direct Costs			
	$		
3-Man Crew Days - Topo (16 days at $1,217.48/day)	$	19,479.68	
3-Man Crew Days - SUE (2 days at $1,400.00/day)	$	2,800.00	
	$		
MISCELLANEOUS DIRECT COSTS SUB-TOTAL			$22,279.68
10. SUBCONTRACTS (Lump Sum)			
	$		
	$		
SUB-CONTRACT SUB-TOTAL			$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)			$32,191.63
11. REIMBURSABLE COSTS (Limiting Amount)			
	$	0.00	
	$	0.00	
	$	0.00	
	$	0.00	
SUB-TOTAL REIMBURSABLES			$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$32,191.63**

EXHIBIT G

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Alden Road
County: Duval
FPN: n/a
FAP No.: ?

Consultant Name: DRMP, Inc.
Consultant No.: enter consultants proj. number
Date: 11/21/2017
Estimator: Glenn J. Lusink, PSM

Staff Classification	Total Staff Hours From "SH Summary Firm"	Project Manager	Senior Surveyor &	Surveyor & Mapper	Survey Technician	Secretarial / Clerical	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$0.00	$106.60	$132.22	$69.17	$61.99	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
27. Survey (Field & Office Support)	88	0	9	22	53	4	0	0	0	0	0	0	0	88	$9,912	$112.64
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	88	0	9	22	53	4	0	0	0	0	0	0	0	88		
Total Staff Cost		$0.00	$1,499.40	$2,908.84	$5,255.75	$247.96	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$9,911.95**	**$112.64**

Check = $9,911.95

SALARY RELATED COSTS:				$9,911.95
OVERHEAD:		0%		$0.00
OPERATING MARGIN:		0%		$0.00
FCCM (Facilities Capital Cost Money):		0.00%		$0.00
EXPENSES:		0.00%		$0.00
SUBTOTAL ESTIMATED FEE:				**$9,911.95**
Survey (Field)	16	3-man crew days @	$ 1,217.48 / day	$19,479.68
SUE Services	2	3-man crew days @	$ 1,400.00 / day	$2,800.00
Geotechnical Field and Lab Testing				$0.00
SUBTOTAL ESTIMATED FEE:				**$32,191.63**
Optional Services				$0.00
GRAND TOTAL ESTIMATED FEE:				**$32,191.63**

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.
2. Survey crew days are based on a 3 Man 8 hour day

27. Survey

Estimator: Bill Faust

Alden Road
n/a

Representing	Print Name	Signature / Date
COJ		
Consultant Name	Bill Faust, PSM	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.1	Horizontal Project Control (HPC)									
	2-Lane Roadway	Mile	1.00	1.00	1.00	1.25	1.25	3.00	3.00	Recover or Establish horizontal geodetic control points throughout the project limits, referenced to Florida State Plane Coordinates, East Zone, North American Datum 1983 (NAD83/2011).
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									
	2-Lane Roadway	Mile	4.00	0.50	2.00	1.25	2.50	3.00	6.00	Recover or Establish vertical control points throughout project at 1000' (feet) intervals (NAVD 1988 Datum). This includes secondary vertical control throughout the project.
	Multi-lane Roadway	Mile			0.00		0.00		0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.3	Alignment and Existing R/W Lines									Recover or establish the existing alignments of Alden Road, east and west of Cedar Swamp Creek. This effort will include tying down the adjacent subdivisions, Coachman Lakes, Unit 1, Plat Book 53, Page 51; Coachman Meadows, Unit 1, Plat Book 54, Page 89 and Richmond Place, Plat Book 55, Page 82 and the adjacent City of Jacksonville parcel RE#165286 0800.
		Mile	1.00	2.00	2.00	1.25	2.50	4.00	8.00	
27.4	Aerial Targets			Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	N/A
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
27.5	Reference Points	"A"		Units/Day						
	2-Lane Roadway	EA			0.00		0.00		0.00	N/A
	Multi-lane Roadway	EA			0.00		0.00		0.00	
	Interstate	EA			0.00		0.00		0.00	
	Reference Points	"B"		Units/Day						
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.6	Topography/DTM (3D)									N/A
		Mile			0.00		0.00		0.00	
27.7	Planimetric (2D)									TREE SURVEY - Locate any Specimen Trees that are found within the project corridor. This effort does not include a tree survey to the City of Jacksonville Standards.
		Mile	1.00	1.00	1.00	1.25	1.25	3.00	3.00	
27.8	Roadway Cross-Sections/Profiles									Provide a centerline profile along the existing alignments based on the most current available LIDAR Data. Field time is for check shots to verify the accuracy of the LIDAR Data. Additional 2 hours added to extract the LIDAR data.
		Mile	1.00	1.00	1.00	1.25	1.25	8.00	8.00	
27.9	Side Street Surveys									See 27.7
		Mile			0.00		0.00		0.00	
27.10	Underground Utilities									Provide Subsurface Utility Engineering services, to include designation along project corridor (Project length for utility designations 1,000' - 6 utility at 6,000').
	Designates	Mile/Site	1.00	2.00	2.00	1.25	2.50	4.00	8.00	
	Locates	Point			0.00		0.00		0.00	
27.11	Outfall Survey									
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						Provide a drainage survey of the existing Storm Water Management Facilities within the projects limits. This effort will consist of obtaining water elevation of each faciliity, control structure location and elevation details of each control structure. It will also consist of obtaining drainage pipes and structures locations and elevations on drainage system pipes that connect ponds, system pipes along Alden Road and pump station and outfall pipes on the city Storm Water Management facility.
		EA	20.00	10.00	2.00	1.25	2.50	3.00	6.00	
27.13	Bridge Survey									N/A
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									N/A
		EA			0.00		0.00		0.00	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.15	Pond Site Survey									N/A
		EA			0.00		0.00		0.00	
27.16	Mitigation Survey									N/A
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									Locate and provide the elevations of the Ordinary Highwater Marks within the project limits. This effort will consist of locating several points within the Cedar Swamp Creek corridor, placing a nail at the mark and obtaining the elevation of the nail.
		Mile	1.00	1.00	1.00	1.25	1.25	3.00	3.00	
27.18	Geotechnical Support			Units/Day						Provide Geotechnical support for (seven) borings. This effort will consist of providing the horizontal and vertical location of each boring.
		EA	1	0.5	2.00	1.25	2.50	3.00	6.00	
27.19	Sectional / Grant Survey									N/A
		Corner			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									See 27.3
		Block			0.00		0.00		0.00	
27.21	Maintained R/W									N/A
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									N/A
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									N/A
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									N/A
		EA			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	N/A
27.25	R/W Monumentation									N/A
		Point			0.00		0.00		0.00	
27.26	Line Cutting									LINE CUTTING AS NEEDED
		Mile	1.00	1.00	1.00					
27.27	Work Zone Safety									MOT as required
			0.125	15.60	1.95					
27.28	Miscellaneous Surveys									Miscellaneous Surveys days for additional survey services if needed at the discretion of the District PM & Design Engineer. (Limiting Amount)
					0.00		0.00		0.00	

27. Survey

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
	Survey Subtotal			**Crew Days**	**18**	**Field Support Hours**	**18**	**Office Support Hours**	**53**	
27.29	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
				18	0		0		0	
27.30	Document Research	Units								Provide document research for the existing utility records.
			8.00						8	
27.31	Field Reviews	Units								
									0	
27.32	Technical Meetings	LS								
									0	
27.33	Quality Assurance / Quality Control	LS								
								5%	3	
27.34	Supervision	LS								
								5%	4	
27.35	Coordination	LS								
								3%	2	
	27. Survey Total			**Crew Days**	**18**	**Field Support Hours**	**18**	**Office Support Hours**	**70**	

SPLS =

PLS =

Office Support =

Total Hours = 88

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Baseline Approval Review	EA	0	0	0		0
Network Control Review	EA	0	0	0		0
Vertical Control Review	EA	0	0	0		0
Local Governments (cities, counties)	EA	0	0	0		0
Final Submittal Review	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				**0**	**Subtotal PM Meetings**	**0**
Progress Meetings (if required by FDOT)	EA	0	0	0	**	- -
Phase Review Meetings	EA	0	0	0	**	- -
Total Meetings				**0**	**Total PM Mtgs (carries to Tab 3)**	**0**

Carries to 27.32 Carries to Tab 3

Note:

Survey crew days are based on a 3 Man (8 hour day)

**** Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3**

16 November 2017

Mr. Keith Jackson, P.E.
5200 Belfort Road, Suite 400
Jacksonville, FL 32256

Environmental Resource Solutions
Our Science. Your Success.

RE: Alden Road: NRE Scope of Services & Fee

Dear Mr. Jackson:

Environmental Resource Solutions, Inc. (ERS) will assist the City of Jacksonville and STV in the completion of field surveys and relevant documentation for inclusion in a Natural Resource Evaluation (NRE) that provides an assessment of potential impacts to jurisdictional wetlands and/or surface waters, tidal freshwater essential fish habitat (EFH), and federally-listed fish and wildlife species for the Alden Road improvement project. All vegetative communities will be mapped within each alternative footprint and impacts to protected resources will be estimated. A draft functional assessment using Uniform Mitigation Assessment Method (UMAM) will be completed for estimated wetland impacts per alternative and per wetland community type.

ERS will perform the following sub-tasks towards the developments of each primary alternative and the final recommended alternative:

1. Conduct full wildlife database search and desktop evaluation of each proposed alternative to determine the approximate extent of wetland and surface water resources.
2. Utilize existing aerial photographs and LIDAR data to estimate the extent of jurisdictional wetlands and surface waters.
3. Conduct preliminary wildlife surveys within each alternative to determine whether the habitats support, or have the potential to support federally-listed species.
4. Evaluate the project for potential impacts to tidal freshwater EFH.
5. Prepare a Natural Resource Evaluation report that will include a wetland evaluation [per FDOT PD&E Manual Part 2, Chapter 9 (2017)], listed species evaluation [per FDOT PD&E Manual Part 2, Chapter 16: Protected Species and Habitat (2017)], and evaluation of EFH [per FDOT PD&E Manual Part 2, Chapter 17 (2017)].

We estimate 79 hours will be required to complete the project and our fee for the above-referenced scope of services is $9,410.98.

Please let me know if you have any questions regarding the above scope of services.

Sincerely,

ENVIRONMENTAL RESOURCE SOLUTIONS, INC.

Kim M. Allerton
President

(KMA_STV_Alden Road NRE ScopeR2)

Environmental Resource Solutions, Inc.

Jacksonville Headquarters:
8711 Perimeter Park Blvd., Suite 1, Jacksonville Florida 32216
T: (904)-285-1397, F: (904) 285-1929
Email: mail@ersenvironmental.com

SW Florida Regional Office:
19607 Lake Osceola Lane, Odessa, Florida 33556
T: (813) 404-3963
Email: sbrammell@ersenvironmental.com

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Alden Road (PD&E)	2. Proposal Number COJ P-13-17
3. Name of Consultant Environmental Resource Solutions	4. Date of Proposal 1/31/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$50.00	24	$1,200.00	
Sr. Environmental Scientist	$38.25	20	$765.00	
Environmental Scientist	$30.07	35	$1,052.45	
Env. Field Technician	$25.00	7	$175.00	
Drafter / CADD Operator	$24.33	9	$212.89	
Clerical	$16.82	1	$16.82	
		0	$0.00	
TOTAL DIRECT LABOR		96	Hours	$3,422.16
6. Overhead (Combined Fringe Benefit & Administrative)			150%	$5,133.27
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$8,555.43
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$855.55

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs	$ $ $ $	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)	$ $	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$9,410.98
11. REIMBURSABLE COSTS (Limiting Amount)	$ 0.00 $ 0.00 $ 0.00 $ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$9,410.98**

EXHIBIT G

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Alden Road Connector Bridge
County: Duval
FPN: 0
FAP No.: 0

Consult. Name: Environmental Resource Solutions, Inc.
Consult. No. enter consultants proj. number
Date: 11/21/2017
Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary - Firm"	KA Project Manager	JN Sr. Env Scientist	AR Env. Scientist	DY Env. Scientist	JS Env. Scientist	JW Sr. Env. Specialist	KC Sr. Env. Specialist	DF GIS Specialist	WE Env. Specialist	RK Env. Technician	CADD/GIS	Clerical	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$60.25	$50.00	$40.86	$40.74	$37.50	$33.68	$30.42	$27.51	$24.04	$18.27	$22.00	$17.60			
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Analysis & Reports	78	8	16	0	16	0	0	31	8	0	0	0	0	79	$3,097	$39.20
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	78	8	16	0	16	0	0	31	8	0	0	0	0	79		
Total Staff Cost		$482.00	$800.00	$0.00	$651.84	$0.00	$0.00	$943.02	$220.08	$0.00	$0.00	$0.00	$0.00		**$3,096.94**	**$39.20**

Check $3,096.94

SALARY RELATED COSTS:			$3,096.94
OVERHEAD:	166.65%		$5,161.05
OPERATING MARGIN:	28.00%		$867.14
FCCM (Facilities Capital Cost Money):	0.0000%		$0.00
EXPENSES:	9.23%		$285.85
SALARY RELATED SUBTOTAL:			**$9,410.98**
Survey (Field - if by Sub) 0.00	4-man crew days	$ - / day	$0.00
SUBTOTAL - SUBCONSULTANT			**$9,410.98**
Optional Services			$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:			**$9,410.98**

Note:

1. This sheet to be used by Subconsultant to calculate its fee.

Estimator:	Name					Alden Road Connector Bridge
						-
Task No.	**Task**	**Units**	**# of Units**	**Hours / Unit**	**Hours**	**Comments**
	Sociocultural Effects					
3.1	**Land Use Changes ***	LS	1	0	0	
3.2	**Social ***	LS	1	0	0	
3.3	**Economic ***	LS	1	0	0	
3.4	**Mobility ***	LS	1	0	0	
3.5	**Aesthetics ***	LS	1	0	0	
3.6	**Relocation Potential**	LS	Task Total ---->		0	
	*Conceptual Stage Relocation Plan **	*LS*	1	0	0	
	*Review and Impact Determination **	*LS*	1	0	0	
	Cultural Resources					
3.7	**Archaeological and Historical Resources**	LS	Task Total ---->		0	
	Research Design Methodology As Required	*LS*	*1*	*0*	*0*	
	*Cultural Resource Assessment Survey (CRAS) **	*LS*	*1*	*0*	*0*	
	Pond Site Technical Memorandum	*LS*	*1*	*0*	*0*	
	Determiniation of Eligibility (DOE) As Required	*LS*	*0*	*0*	*0*	
	*Case Study Report **	*LS*	*1*	*0*	*0*	
	*Memorandum of Agreement (MOA) **	*LS*	*1*	*0*	*0*	
	Historic Resources, Section 4(f) Evaluation	*LS*	*1*	*0*	*0*	
	Section 106 Consultation Meetings	*LS*	*1*	*0*	*0*	
	Native American Coordination Meeting	*LS*	*1*	*0*	*0*	
	Section 106 Public Involvement	*LS*	*1*	*0*	*0*	
	Cultural Resource Committee Meetings	*LS*	*1*	*0*	*0*	
3.8	**Recreational, Section 4(f)**	LS	Task Total ---->		0	
	*Section 4 (f) Applicability "de minimus" **	*EA*	*0*	*0*	*0*	

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Section 4 (f) Applicability **	*EA*	*0*	*0*	*0*	
	*Section 4 (f) Evaluation **	*EA*	*0*	*0*	*0*	
	Natural Resources					
3.9	**Wetlands and Essential Fish Habitat**	LS	Task Total ---->		44	
	Data Collection - Wetlands	LS	1	6	6	Wetland limits will be approximated utilizing aerial photography.
	Data Collection - Essential Fish Habitat Assessment	LS	1	6	6	
	Conceptual Mitigation Plan *	LS	1	0	0	
	Analysis & Report - Essential Fish Habitat *	LS	1	8	8	
	Evaluation & Report - Wetlands *	LS	1	24	24	Includes completeion of NRE.
3.10	**Water Quality ***	LS	1	0	0	
3.11	**Special Designations ***	LS	1	0	0	
3.12	**Wildlife and Habitat**	LS	Task Total ---->		32	
	Data collection	LS	1	8	8	
	Analysis and report *	LS	1	24	24	Includes completeion of NRE.
	Conservation Measures and Mitigation Plan *	LS	1	0	0	
3.13	**Identify Permit Conditions ***	LS	1	0	0	
3.14	**Farmlands ***	LS	1	0	0	
	Physical Effects					
3.15	**Noise**	LS	Task Total ---->		0	
	Data collection, and field work	LS	1	0	0	
	Analysis *	LS	1	0	0	
	Report *	LS	1	0	0	
3.16	**Air Quality**	LS	Task Total ---->		0	
	*Sceening Analysis **	*LS*	*1*	*0*	*0*	

ENVIRONMENTAL ANALYSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	*Air Quality Modeling * As Required*	*LS*	*1*	*0*	*0*	
3.17	**Construction Impact Analysis ***	LS	1	0	0	
3.18	**Contamination**	LS	Task Total ---->		0	
	Field Data	*LS*	*1*	*0*	*0*	
	*Analysis/Report * *	*LS*	*1*	*0*	*0*	
	Environmental Reports					
3.19	**Class of Action Determination ***	LS	1	0	0	
3.20	**CATEX Type II * (if not part of 3.19 - Class of Action Determination)**	LS	1	0	0	
3.21	**SEIR * (if not part of 3.19 - Class of Action Determination)**	LS	1	0	0	
3.22	**Environmental Assessment ***	LS	1	0	0	
3.23	**FONSI ***	LS	1	0	0	
3.24	**Draft EIS ***	LS	1	0	0	
3.25	**Final EIS ***	LS	1	0	0	
	Environmental Analysis and Report Subtotal				**76**	
3.26	**Quality Assurance / Quality Control**	LS	%	3%	2	
	ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS				**78**	
NOTE: * subject to QC						

Environmental **T**ransportation **P**lanning, LLC
37 Jackson Avenue, Ponte Vedra Beach, FL 32082
Main Office: 904.273.0788
www.etpconsultants.net

November 15, 2017

To: J. Keith Jackson, PE – STV, Inc.

From: Robbin Ossi, AICP

Subject: COJ Alden Road Connector Bridge PD&E Study
Staff Hours and Fee Proposal

Dear Mr. Jackson,

Attached to this cover letter is ETP's staff and detailed fee proposal to complete the project's noise impact analysis and attend two public meetings as outlined in our approved Scope of Services. We propose to complete the required tasks for $11,105.19.

Please let me know if you required further information regarding our estimate. We look forward to working with you and the City of Jacksonville on this project.

Kind Regards,

Robbin Ossi

Robbin Ossi, AICP
President/Managing Member
Chief Planner

R.Ossi@etpconsultants.net

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Alden Road (PD&E)	2. Proposal Number COJ P-13-17
3. Name of Consultant Environmental Transportation Planning, LLC	4. Date of Proposal 1/31/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Chief Planner	$66.00	64	$4,224.00	
Senior Planner	$50.00	3	$150.00	
TOTAL DIRECT LABOR		67	Hours	$4,374.00
6. Overhead (Combined Fringe Benefit & Administrative)			130.81%	$5,721.63
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$10,095.63
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$1,009.56

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs	$ $ $ $	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)	$ $	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$11,105.19
11. REIMBURSABLE COSTS (Limiting Amount)	$ 0.00 $ 0.00 $ 0.00 $ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$11,105.19**

EXHIBIT G

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Alden Road Bridge PD&E Study
County: Duval
FPN: P-13-17
FAP No.: N/A

Consult. Name: Environmental Transportation Planning, LLC
Consult. No.
Date: 11/21/2017
Estimator: Robbin Ossi, AICP

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Planner	Sr. Planner	Staff Classification 3	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$66.00	$50.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
Project Description and Objectives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Public Involvement	8	8	0	0	0	0	0	0	0	0	0	0	0	8	$528	$66.00
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Analysis & Reports	59	56	3	0	0	0	0	0	0	0	0	0	0	59	$3,846	$65.19
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	67	64	3	0	0	0	0	0	0	0	0	0	0	67		
Total Staff Cost		$4,224.00	$150.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$4,374.00**	**$65.28**

Check - $4,374.00

SALARY RELATED COSTS:			$4,374.00
OVERHEAD:	130.81%		$5,721.63
OPERATING MARGIN:	10.00%		$1,009.56
FCCM (Facilities Capital Cost Money):	0.00%		$0.00
EXPENSES:	0.00%		$0.00
SALARY RELATED SUBTOTAL:			**$11,105.19**
Survey (Field - if by Sub)	0.00	4-man crew days $ - / day	$0.00
SUBTOTAL - SUBCONSULTANT			**$11,105.19**
Optional Services			$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:			**$11,105.19**

Note:
1. This sheet to be used by Subconsultant to calculate its fee.

3.0 ENVIRONMENTAL ANAYLSIS AND REPORTS

Estimator: Robbin Ossi, AICP

Alden Road Bridge PD&E Study

P-13-17

Representing	Print Name	Signature / Date
Environmental Transportation Planning, LLC (ETP)	Robbin Ossi, AICP	11/15/2017

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
5.1	**Sociocultural Effects**					
	*5.1 Socio-cultural Effects Evaluation Report **	*LS*	*1*	*0*	*0*	
	*5.1.1 Social **	*LS*	*1*	*0*	*0*	
	*5.1.2 Economic **	*LS*	*1*	*0*	*0*	
	*5.1.3 Land Use Changes **	*LS*	*1*	*0*	*0*	
	*5.1.4 Mobility **	*LS*	*1*	*0*	*0*	
	*Transit Only **	*LS*	*1*	*0*	*0*	
	*5.1.5 Aesthetics **	*LS*	*1*	*0*	*0*	
	5.1.6 Relocation Potential					
	*Review and Impact Determination **	*LS*	*1*	*0*	*0*	
	*Conceptual Stage Relocation Plan (CSRP) **	*LS*	*1*	*0*	*0*	
				5.1 Sociocultural Effects Total	**0**	
5.2	**Cultural Resources**					
	5.2.1 Archaeological and Historic Resources					
	Research Design Methodology	*LS*	*1*	*0*	*0*	
	*Cultural Resource Assessment Survey (CRAS) **	*LS*	*1*	*0*	*0*	
	CRAS Addendum or Technical Memo. for Pond Sites	*LS*	*1*	*0*	*0*	
	Determination of Eligibility (DOE) As Required	*LS*	*1*	*0*	*0*	
	*Case Study Report **	*LS*	*1*	*0*	*0*	
	*Memorandum of Agreement (MOA) **	*LS*	*1*	*0*	*0*	
	Section 4(f) Evaluation for Historic Resources	*LS*	*1*	*0*	*0*	
	Section 106 Consultation Meetings	*LS*	*1*	*0*	*0*	
	Native American Coordination Meeting	*LS*	*1*	*0*	*0*	
	Section 106 Public Involvement	*LS*	*1*	*0*	*0*	
	*5.2.2 Recreation Section 4(f) **					
	Section 4(f) Determination of Applicability	*EA*	*0*	*0*	*0*	
	*Section 4(f) "de minimis" documentation **	*EA*	*0*	*0*	*0*	
	*Section 4(f) Evaluation **	*EA*	*0*	*0*	*0*	
				5.2 Cultural Resources Total	**0**	
5.3	**Natural Resources**					
	5.3.1 Wetlands					
	Wetlands - Data Collection	*LS*	*1*	*0*	*0*	
	*Wetlands - Evaluation **	*LS*	*1*	*0*	*0*	
	5.3.2 Essential Fish Habitat					

3.0 ENVIRONMENTAL ANAYLSIS AND REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Essential Fish Habitat - Data Collection	*LS*	*1*	*0*	*0*	
	*Essential Fish Habitat - Evaluation **	*LS*	*1*	*0*	*0*	
	*Conceptual Mitigation Plan **	*LS*	*1*	*0*	*0*	
	5.3.3 Wildlife and Habitat					
	Data Collection	*LS*	*1*	*0*	*0*	
	Specific Survey and Consultation	*LS*	*1*	*0*	*0*	
	*Analysis **	*LS*	*1*	*0*	*0*	
	*Conservation Measures and Mitigation Plan **	*LS*	*1*	*0*	*0*	
	5.3.4 Natural Resources Evaluation (NRE) Report	*LS*	*1*	*0*	*0*	
	*5.3.5 Water Quality **	*LS*	*1*	*0*	*0*	
	*5.3.6 Special Designations **	*LS*	*1*	*0*	*0*	
	*5.3.7 Identify Permit Needs **	*LS*	*1*	*0*	*0*	
	*5.3.8 Farmlands **	*LS*	*1*	*0*	*0*	
				5.3 Natural Resources Total	**0**	
5.4	**Physical Effects**					
	5.4.1 Noise					
	Methodology Meeting	***LS***	***1***	*3*	***3***	***Preparation for, attend (1 staff), and document Noise Methdology (Kickoff) Meeting at COJ***
	Data Collection *	***LS***	***1***	*0.5*	***1***	***Assist Consultant traffic engineer with required Noise Traffic Forms***
	Land Use Field Review/Outdoor Advertising Identification	***LS***	***1***	*2*	***2***	***1 staff = Conduct field review to identify existing land uses and potential noise sensitive sites that may be affected by traffic noise and vibration. Includes travel from Ponte Vedra***
	Field Measurement and Model Validation *	***LS***	***1***	*1*	***1***	***1 staff = Conduct 3 10-minute noise measurements each at two locations (1 east of bridge crossing and 1 west of bridge crossing)***
	Outdoor Advertising Identification	***LS***	***1***	*0*	***0***	***Completed as part of Field Review activity***
	Construction Noise and Vibration	***LS***	***1***	*0.5*	***1***	***Review and identify potential construction noise and vibration sensitive sites***
	Analysis and Noise Abatement Evaluation *	***EA***	*1*	*24*	***24***	***4 general noise areas (with multiple potentially impacted sites) at 6 hrs each***
	Noise Report *	***LS***	***1***	*24*	***24***	***Prepare the Noise Study Report (NSR) in accordance with Part 2, Chapter 18 of the PD&E Manual.***
	*5.4.2 Transit Noise and Vibration Analysis **	*LS*	*1*	*0*	*0*	
	5.4.3 Air Quality					
	*Data Collection **	*LS*	*1*	*0*	*0*	
	*Screening Analysis **	*LS*	*1*	*0*	*0*	
	*Air Quality Modeling **	*LS*	*1*	*0*	*0*	
	*5.4.4 Construction Impact Analysis **	*LS*	*1*	*0*	*0*	
	5.4.5 Contamination					
	*Field Data **	*LS*	*1*	*0*	*0*	
	*Analysis and Report **	*LS*	*1*	*0*	*0*	
				5.4 Physical Effects Total	**56**	
5.5	**Cumulative Effects Evaluation ***	EA	0	0	0	
5.6	**Project Commitments Record ***	LS	1	0	0	
				Environmental Analysis and Report Subtotal	**56**	
				Hours Subject to QC	**50**	
	Quality Assurance / Quality Control	**LS**	**%**	**5%**	**3**	***Perform in-house QA***
				ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS	**59**	

peters yaffee
TRANSPORTATION & TRAFFIC ENGINEERING

November 14, 2017

Keith Jackson, PE
Engineering Director, Transportation & Infrastructure Florida
STV
5200 Belfort Road, Suite 400
Jacksonville, FL 32256

RE: Alden Road PD&E Traffic Analysis Fee (COJ P-13-107)

Dear Keith:

Attached is the requested information pertaining to our fee for the above referenced project. The total fee including our subconsultant, Chindalur Traffic Solutions, Inc. (CTSi) is $41,563.86. We have also attached our fee estimate, as well as CTSi's fee estimate and scope for your use.

If you have any additional questions or concerns that may require any further information, please do not hesitate to contact us.

Sincerely,

Russell Yaffee, PE, PTOE
Vice President

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Alden Road (PD&E) - Traffic Analysis	**2. Proposal Number** COJ P-13-107
3. Name of Consultant Peters and Yaffee, Inc.	**4. Date of Proposal** 11/14/2017

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 72.93	4	$ 291.72	
Project Manager	$ 64.00	14	$ 896.00	
Senior Engineer	$ 62.96	39	$ 2,455.44	
Design Engineer	$ 40.38	59	$ 2,382.42	
Engineering Intern	$ 29.56	120	$ 3,547.20	
Drafter/CADD	$ 23.56	32	$ 753.92	
Clerical	$ 22.22	8	$ 177.76	
TOTAL DIRECT LABOR	$38.06	276		$ 10,504.46
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	175 % x Total Direct Labor			$ 18,382.81
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 28,887.27
8. PROFIT: Labor Related Costs (Item 7)	x	10%		$ 2,888.73

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
Transportation & Shipping	$ 19.20	
Original Reproducibles	$ 0.00	
Reproduction	$ 90.00	
Miovision Processing Fees (Traffic Cameras)	$ 2,553.64	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ 2,662.84
10. SUBCONTRACTS (Lump Sum)		
NERPM Model Devlopment (CTSi)	$ 7,125.02	
Traffic	$ 0.00	
Structural Design	$ 0.00	
Environmental/Permitting	$ 0.00	
Other (Specify)	$ 0.00	
SUB-CONTRACT SUB-TOTAL		$ 7,125.02
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$ 41,563.86
11. REIMBURSABLE COSTS (Limiting Amount)		
Geotechnical Investigations	$ 0.00	
Permitting Activities	$ 0.00	
Wetland Staking	$ 0.00	
SUB-TOTAL REIMBURSABLES		$ -

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$ 41,563.86**

ESTIMATE OF WORK EFFORT AND FEE FOR
CONSTRUCTION PLANS

CONSULTANT:	Peters and Yaffee, Inc.	NAME OF PROJECT:	Alden Road (PD&E) - Traffic Analysis
RFP NO.:	COJ P-13-107	FROM:	
		TO:	
ESTIMATOR NAME / DATE:	Russell Yafee, PE, PTOE	LENGTH:	

No. / ACTIVITY	Principal		Project Manager		Senior Engineer		Design Engineer		Engineering Intern	
	RATE/HR	$72.93	RATE/HR	$64.00	RATE/HR	$62.96	RATE/HR	$40.38	RATE/HR	$29.56
	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST
A. Existing Traffic Conditions										
A.1 ADT Counts - 6 locations (Setup, Install, Data Transfer & Review)	0	$0.00	0	$0.00	0	$0.00	0	$0.00	20	$591.20
A.2 Turning Movement Counts - 8 Intersections (Setup, Install, Data Transfer & Review)	0	$0.00	0	$0.00	0	$0.00	0	$0.00	24	$709.44
A.3 Field Review - Study Intersections and Roadway Segments	0	$0.00	0	$0.00	0	$0.00	8	$323.04	8	$236.48
A.4 Collect Existing Data - Signal Timings	0	$0.00	0	$0.00	0	$0.00	0	$0.00	2	$59.12
A.5 Develop Design Parameters	0	$0.00	0	$0.00	4	$251.84	8	$323.04	2	$59.12
A.6 Document Planned Developments, Studies & Improvements	0	$0.00	0	$0.00	1	$62.96	3	$121.14	0	$0.00
A.7 Existing Roadway Link Analysis (6 Locations)	0	$0.00	1	$64.00	2	$125.92	4	$161.52	4	$118.24
A.8 Existing Intersection LOS Analysis (8 Intersections)	0	$0.00	1	$64.00	4	$251.84	8	$323.04	8	$236.48
B. Future Conditions Analysis										
B.1 Review NERPM Model Results (Model to be developed by subconsultant (CTSi)	0	$0.00	0	$0.00	4	$251.84	0	$0.00	0	$0.00
B.2 Future Roadway Link Analysis - No-Build an Build Scenarios (6 Locations)	0	$0.00	1	$64.00	2	$125.92	4	$161.52	4	$118.24
B.3 Future Intersection LOS Analysis No-Build an Build Scenarios (8 Intersections)	0	$0.00	1	$64.00	4	$251.84	8	$323.04	8	$236.48
B.4 Conduct Signal Warrant Analysis (Alden Road at Kernan Blvd.)	0	$0.00	0	$0.00	2	$125.92	8	$323.04	16	$472.96
C. Prepare Report										
C.1 Prepare Preliminary Report, Adress Comments and Finalize Report	4	$291.72	2	$128.00	8	$503.68	8	$323.04	24	$709.44
D. Meetings										
D.1 Coordination Meetingsw with COJ	0	$0.00	4	$256.00	4	$251.84	0	$0.00	0	$0.00
D.2 Public Meetings	0	$0.00	4	$256.00	4	$251.84	0	$0.00	0	$0.00
TOTAL	4	$291.72	14	$896.00	39	$2,455.44	59	$2,382	120	$3,547

No. / ACTIVITY	Drafter/CADD		Clerical		MAN HOURS	SALARY	AVG.	SALARY COST
	RATE/HR	$23.56	RATE/HR	$22.22				
	MAN HOURS	LABOR COST	MAN HOURS	LABOR COST	BY ACTIVITY	COST BY ACTIVITY	HOURLY COST	DIST. %
A. Existing Traffic Conditions								
A.1 ADT Counts - 6 locations (Setup, Install, Data Transfer & Review)	0	$0.00	0	$0.00	20	$591.20	$29.56	5.6
A.2 Turning Movement Counts - 8 Intersections (Setup, Install, Data Transfer & Review)	0	$0.00	0	$0.00	24	$709.44	$29.56	6.8
A.3 Field Review - Study Intersections and Roadway Segments	0	$0.00	0	$0.00	16	$559.52	$34.97	5.3
A.4 Collect Existing Data - Signal Timings	0	$0.00	0	$0.00	2	$59.12	$29.56	0.6
A.5 Develop Design Parameters	0	$0.00	0	$0.00	14	$634.00	$45.29	6.0
A.6 Document Planned Developments, Studies & Improvements	0	$0.00	0	$0.00	4	$184.10	$46.03	1.8
A.7 Existing Roadway Link Analysis (6 Locations)	0	$0.00	0	$0.00	11	$469.68	$42.70	4.5
A.8 Existing Intersection LOS Analysis (8 Intersections)	0	$0.00	0	$0.00	21	$875.36	$41.68	8.3
B. Future Conditions Analysis								
B.1 Review NERPM Model Results (Model to be developed by subconsultant (CTSi)	0	$0.00	0	$0.00	4	$251.84	$62.96	2.4
B.2 Future Roadway Link Analysis - No-Build an Build Scenarios (6 Locations)	0	$0.00	0	$0.00	11	$469.68	$42.70	4.5
B.3 Future Intersection LOS Analysis No-Build an Build Scenarios (8 Intersections)	0	$0.00	0	$0.00	21	$875.36	$41.68	8.3
B.4 Conduct Signal Warrant Analysis (Alden Road at Kernan Blvd.)	0	$0.00	0	$0.00	26	$921.92	$35.46	8.8
C. Prepare Report								
C.1 Prepare Preliminary Report, Adress Comments and Finalize Report	32	$753.92	8	$177.76	86	$2,887.56	$33.58	27.5
D. Meetings								
D.1 Coordination Meetings with COJ	0	$0.00	0	$0.00	8	$507.84	$63.48	4.8
D.2 Public Meetings	0	$0.00	0	$0.00	8	$507.84	$63.48	4.8
TOTAL	32	$753.92	8	$177.76	276	$10,504.46	$38.06	100.0

FEE SUMMARY

PART I - GENERAL	
1. Project Alden Road - Traffic Projections	**2. Proposal Number**
3. Name of Consultant Chindalur Traffic Solutions, Inc.	**4. Date of Proposal** 11/13/2017

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$ 57.85	25	$ 1,446.25	
Sr. Traffic Engineer	$ -	0	$ 0.00	
Project Engineer	$ -	0	$ 0.00	
Engineering Intern	$ 36.37	25	$ 909.13	
Designer	$ -	0	$ 0.00	
Clerical	$ -	0	$ 0.00	
			$	
TOTAL DIRECT LABOR	$47.11	50		$ 2,355.38
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	175 % x Total Direct Labor			$ 4,121.91
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 6,477.29
8. PROFIT: Labor Related Costs (Item 7	x	10%		$ 647.73

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
Transportation	$ 0.00	
Original Reproducibles	$ 0.00	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ -
10. SUBCONTRACTS (Cost Plus)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-CONTRACT SUB-TOTAL		$ -
TOTAL COST PLUS AMOUNT (Items 5, 6, 8, 9 and 10)		$ 7,125.02
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ $0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$ -

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Cost Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$ 7,125.02**

Introduction:
City of Jacksonville is planning to connect Alden Road between St. Johns Bluff Road and Kernan Road. Due to this construction, the existing traffic volumes and patterns at the following intersections are anticipated to change under the horizon year conditions.

Travel Demand Model Runs Scope/Approach:
The most recent travel demand model (North Florida Reginal Planning Model - NERPM_ABv3) will be utilized for developing the year 2040 Traffic Volumes at the above stated study intersections. This model was developed by the North Florida Transportation Planning Organization as part of the year 2040 Long Range Transportation Planning update. This model is an Activity Based Model (ABM) and is capable of producing forecasts for four time periods (AM, Mid-Day, PM and Night Time) as well as a daily 24-hour period. The horizon year 2040 Cost Feasible (CF) dataset will be used to develop traffic volumes at the study intersection.

- A growth factor will be developed for projecting year 2040 traffic volumes. In order develop a growth factor, year 2010 and year 2040 model AADTs, AM and PM peak directional volumes at the study intersection approaches will be developed traffic volumes from the base year 2010 and year 2040 model runs. These two model runs will be without the proposed Alden Road Connection.
- A third model run (year 2040 Cost Feasible alternative with the proposed Alden Road connection) will be performed and compared with the year 2040 model run (without the proposed Alden Road Connection) AADTs, AM and PM peak directional volumes to determine the impact of the proposed Alden Road connection on the existing and future traffic volumes. Year 2040 AM, PM and daily model turning volumes will also be produced for the study intersections.
- Future turning movement volumes can be developed by applying the directional splits obtained from the model, existing splits, and engineering judgement to the established approach volume.

Deliverables:
Tables summarizing the year 2010 and year 2040 AADTs and AM, Mid-Day, PM and Night Time periods directional turning movements at the above stated study intersections will be provided.

SEARCH

Scope of Services

Cultural Resource Desktop Analysis for the Alden Road Connector Roadway and Bridge Project, Duval County, Florida

City of Jacksonville RFP No. P-13-17

January 17, 2018

Project Description

SEARCH will prepare a cultural resources desktop analysis in support of the Alden Road Connector Roadway and Bridge project. The desktop analysis will include identification of known cultural resources that have been recorded with the Florida Master Site File, research regarding unrecorded historic resources, and development of archaeological probability models. No archaeological or architectural history field survey will be conducted under the present scope of services.

A technical report will be prepared that describes the environmental setting, previously recorded sites, a review of historic maps, an assessment of the potential for cultural resources to be present on the project area, and a work plan for conducting any recommended further site-specific study. This document is for internal planning purposes and is not intended to satisfy Rule Chapter 1A-46, Florida Administrative Code, standards for cultural resource reports submitted to the State Historic Preservation Officer (SHPO).

Should additional work (Phase I CRAS, Phase II Site Assessment, Determination of Eligibility, Section 106 Case Report, etc.) be requested by the State Historic Preservation Officer (SHPO) or other agency subsequent to the review of the desktop analysis, such work will be conducted under a separate scope and cost agreement.

Study Area Recommendation

For corridors, SEARCH generally recommends that the Study Area be defined to include the proposed right-of-way for the project limits in addition to a 1000-foot buffer.

Project Duration

The duration of this project will not exceed 12 months from contract execution.

Project Staff

SEARCH key personnel all exceed the qualifications presented in the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (Federal Register V.48 N. 190 Part IV p. 44738-44739, September 30, 1983).

Deliverables

Quantity	Deliverable	Via
1	Certificate of Insurance[1]	Fax
1	Draft Report PDF	Email
2	Draft Report (bound)[1]	UPS
1	Final Report PDF	UPS
5	Final Reports (bound)	UPS

[1] Upon Request

Project Tasks

The following tasks and subtasks generally comprise the level of effort required to complete this project. Staffhours associated with each task are shown on the attached Cost Proposal and Staffhour Estimate.

1. **Mobilization/Demobilization**
   - Not applicable

2. **Background Research**
   - Florida Master Site File (FMSF) cultural resource database review
   - FMSF cultural resource survey database review
   - Literature review
   - Historic USGS, USDA, GLO, state, county, and roadway map review
   - Historic aerial review
   - Environmental review
   - Local informant interviews
   - Certified Local Government representative coordination
   - County Property Appraiser database review
   - Archaeological site probability model development
   - Historic structure probability model development

3. **Fieldwork**
   - Not applicable

4. **Data Analysis**
   - Not applicable

5. **GIS**
   - Review of available GIS databases
   - Report map production

6. **Report Preparation and Production**
   - Progress reports
   - Draft report
   - Final report
   - Quality Control

7. **Meetings**
   - Agency coordination via telephone
   - Client teleconference

8. **Project Administration**
   - Project and contract setup
   - Risk management
   - Contract management
   - Project management

Insurance

SEARCH carries insurance for the following policies and will deliver a Certificate of Insurance to the Client upon request. Should the Client require increased limits, endorsements or additions for this contract, the associated costs for any additional insurance requirements will be billed to the Client.

Policy Type	Limits Each Occurrence	Aggregate
Workers Compensation, including United States Harbor Workers and Longshoremen's Act (USL&H*)	Statutory Limits	Statutory Limits
Employers' Liability	$1,000,000	$1,000,000
General Liability	$1,000,000	$2,000,000
Professional Liability/ Contractors Pollution Liability	$2,000,000	$2,000,000
Automobile Liability	$1,000,000	$1,000,000
Umbrella	$3,000,000	$3,000,000
Maritime Employers Liability (Jones Act)*	$1,000,000	$1,000,000
Valuable Papers	$25,000	$25,000
Defense Base Act Coverage as needed on a project by project basis		

* Jones Act and USL&H polices apply to any work that is conducted in, on, or around navigable waters. Claims resulting from injuries in these areas typically are not covered by conventional Workers Compensation insurance policies, and can expose employers and landowners to certain federal laws in respect to employee injuries. SEARCH's policies protect against these claims.

Change Management Plan

SEARCH will submit a Project Modification Form (attached) to the Client for authorization for project changes that exceed the limitations of this Scope of Services. Project changes may include adjustments to the project description, duration, deliverables, tasks, staffhours estimate (attached), or the assumptions listed below.

Assumptions

Fieldwork

- No archaeological or architectural history fieldwork will be conducted under this Scope of Services.

Report Preparation

- Requests for deliverables in addition to those listed in the Deliverables section will be considered a project change. This includes additional report

copies, interim reports, report sections, progress reports, technical memoranda, digital media (including GIS data), press releases, or agency or Tribal correspondence.

- SEARCH will receive all comments from all reviewers for the Draft Report as one submittal. Additional comment submittals will be considered a project change.

Meetings

- No meeting or public hearing attendance will be conducted.
- Only one field meeting will be conducted with buried utility location contractors.
- Consultation with federally recognized Native American Tribes will not be the responsibility of SEARCH under this scope of work.

Staffhours and Lump Sum Cost

SEARCH will complete this project with 40 staffhours for a cost of $3,944.79.

PROJECT MODIFICATION #_____

Financial Management #_____

SEARCH Project #_____

Date: _____

Project Title

Modification Description

Modification Staffhours and Cost

Total Contract Value (including Modifications)

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Alden Road (PD&E)	2. Proposal Number COJ P-13-17
3. Name of Consultant SEARCH	4. Date of Proposal 1/31/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$52.26	6	$313.56	
Chief Archaeologist	$42.61	1	$42.61	
Sr. Specialist	$41.65	0	$0.00	
Specialist	$27.73	8	$221.84	
Sr. Archaeologist	$33.91	10	$339.10	
Archaeologist	$21.53	0	$0.00	
GIS Specialist	$23.39	5	$116.95	
Clerical	$27.00	10	$270.00	
TOTAL DIRECT LABOR		40	Hours	$1,304.06
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$2,282.11
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$3,586.17
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$358.62

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)		
	$	
	$	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$3,944.79
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$3,944.79**

EXHIBIT G

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Professional Design Services for Alden Road Connector Roadway and Bridge Project
County: Duval
FPN: P-13-17
FAP No.: 0

Consult. Name: SEARCH
Consult. No. enter consultants proj. number
Date: 3/2/2018
Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Chief Archaeologist	Sr. Specialist	Specialist	Sr. Archaeologist	Archaeologist	GIS Specialist	Secretary/ Clerical	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$52.26	$42.61	$41.65	$27.73	$33.91	$21.53	$23.39	$27.00	$0.00	$0.00	$0.00	$0.00			
Project Description and Objectives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Analysis & Reports	40	6	1	0	8	10	0	5	10	0	0	0	0	40	$1,304	$32.60
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	40	6	1	0	8	10	0	5	10	0	0	0	0	40		
Total Staff Cost		$313.56	$42.61	$0.00	$221.84	$339.10	$0.00	$116.95	$270.00	$0.00	$0.00	$0.00	$0.00		**$1,304.06**	**$32.60**

Check - $1,304.06

SALARY RELATED COSTS:			$1,304.06
OVERHEAD:	175.00%		$2,282.11
OPERATING MARGIN:	10.00%		$358.62
FCCM (Facilities Capital Cost Money):	0.000%		$0.00
EXPENSES:	0.00%		$0.00
SALARY RELATED SUBTOTAL:			**$3,944.79**
Survey (Field - if by Sub)	0.00	4-man crew days $ - / day	$0.00
SUBTOTAL - SUBCONSULTANT			**$3,944.79**
Optional Services			$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:			**$3,944.79**

Note:
1. This sheet to be used by Subconsultant to calculate its fee.

3.0 ENVIRONMENTAL ANAYLSIS AND REPORTS

Estimator:

Professional Design Services for Alden Road Connector Roadway and Bridge Project

P-13-17

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
5.1	Sociocultural Effects					
5.2	Cultural Resources					
	5.2.1 Archaeological and Historic Resources					
	Research Design Methodology	*LS*	*1*	*0*	*0*	*Included in CRAS.*
	*Cultural Resource Assessment Survey (CRAS) **	*LS*	*1*	*40*	*40*	*Cultural resources desktop analysis with recommendation regarding the need for further work. Includes background research, preparation of report text, report graphics, technical editing, quality control, quality assurance, clerical support, project administration (progress reports, team teleconferences).*
	CRAS Addendum or Technical Memo. for Pond Sites	*LS*	*1*	*0*	*0*	*Not anticipated.*
	Determination of Eligibility (DOE) As Required	*LS*	*1*	*0*	*0*	*Not anticipated.*
	*Case Study Report **	*LS*	*1*	*0*	*0*	*Not anticipated.*
	*Memorandum of Agreement (MOA) **	*LS*	*1*	*0*	*0*	*Not anticipated.*
	Section 4(f) Evaluation for Historic Resources	*LS*	*1*	*0*	*0*	*Not anticipated.*
	Section 106 Consultation Meetings	*LS*	*1*	*0*	*0*	*Not anticipated.*
	Native American Coordination Meeting	*LS*	*1*	*0*	*0*	*Not anticipated.*
	Section 106 Public Involvement	*LS*	*1*	*0*	*0*	*Not anticipated.*
	*5.2.2 Recreation Section 4(f) **					
	Section 4(f) Determination of Applicability	*EA*	*0*	*0*	*0*	
	*Section 4(f) "de minimis" documentation **	*EA*	*0*	*0*	*0*	
	*Section 4(f) Evaluation **	*EA*	*0*	*0*	*0*	
				5.2 Cultural Resources Total	**40**	
5.3	Natural Resources					
5.4	Physical Effects					
5.5	Cumulative Effects Evaluation *	EA	0	0	0	
5.6	Project Commitments Record *	LS	1	0	0	
				Environmental Analysis and Report Subtotal	**40**	
				Hours Subject to QC	**40**	
	Quality Assurance / Quality Control	LS	%	0%	0	
				ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS	**40**	

November 13, 2017

STV Incorporated
5200 Belfort Road, Suite 400
Jacksonville, Florida 32256

Attn: Mr. J. Keith Jackson, P.E.
E: keith.jackson@stvinc.com

Re: Proposal for Environmental Consulting Services
Level 1 Contamination Screening Evaluation Report (CSER)
Alden Road Connector Bridge PD&E
City of Jacksonville
Terracon Proposal No: PEQ177208

Dear Mr. Jackson:

Terracon Consultants, Inc., (Terracon) appreciates the opportunity to submit this proposal to provide environmental consulting services for the above referenced project. This proposal provides an estimated fee for our services, based on our negotiated scope and unit rates. As detailed on the attached estimate of work effort and cost, our estimated fee for these services is $10,463.06

We appreciate the opportunity to provide this proposal and look forward to contributing to the success of this project.

Sincerely,

Terracon Consultants, Inc.

Kyle E. Hayes
Senior Scientist

John B. Kimberly IV, P.E.
Regional Manager

Attachments: Estimate of Work Effort and Cost

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL				
1. Project Alden Road (PD&E)			2. Proposal Number COJ P-13-17	
3. Name of Consultant	Terracon Consultants, Inc.		4. Date of Proposal 1/31/2018	
PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$66.00	15	$990.00	
Registered Professional	$45.00	38	$1,710.00	
Non-Registered Professional	$36.42	11	$400.62	
CADD/Computer Tech	$32.04	8	$256.32	
Clerical	$25.48	4	$101.92	
			$0.00	
			$0.00	
			$0.00	
TOTAL DIRECT LABOR		76	Hours	$3,458.86
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$6,053.01
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$9,511.87
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$951.20
PART III - OTHER COSTS				
9. Miscellaneous Direct Costs			$	
			$	
			$	
			$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				$0.00
10. SUBCONTRACTS (Lump Sum)			$	
			$	
SUB-CONTRACT SUB-TOTAL				$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)				$10,463.06
11. REIMBURSABLE COSTS (Limiting Amount)			$ 0.00	
			$ 0.00	
			$ 0.00	
			$ 0.00	
SUB-TOTAL REIMBURSABLES				$0.00
PART IV - SUMMARY				
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)				**$10,463.06**

EXHIBIT G

PROJECT DEVELOPMENT ENVIRONMENT
Project Data

Activity	Task	Revision Descriptions		
		PD&E Scope of Services	Staff Hour Estimation Forms	Staff Hour Guidelines
File Version Number: v.2017.01 Revision Date: 03/20/2017				
File Name	- -	- -	Updated file name to include version number. This will allow for better recordkeeping.	- -
Updates worksheet	- -	- -	Updated the version number and revisions date	- -
Project Description & Objectives	2	- -	Item 2 has been added to reflect the revised staff hours estimate guideline and scope of services template	- -
Public Involvement	3	- -	Item 3 has been updated to reflect the revised staff hours estimate guideline and scope of services template	- -
Engineering Analysis & Reports	4	- -	Item 4 has been updated to reflect the revised staff hours estimate guideline and scope of services template	- -
Environmental Analysis & Reports	5	- -	Item 5 has been updated to reflect the revised staff hours estimate guideline and scope of services template	- -
Environmental Document	6	- -	Item 6 has been added to reflect the revised staff hours estimate guideline and scope of services template	- -
Design Services	8	- -	Item 8 has been added to reflect the revised staff hours estimate guideline and scope of services template	- -
Miscellaneous	- -	- -	This has been removed in accordance with the revised staff hours estimate guideline and scope of services template	- -
Project Data	- -	- -	Revised worksheet in order to follow revised organization of scope of services	- -

PROJECT DEVELOPMENT ENVIRONMENT
Project Data

Summary	- -	- -	Updated to reflect the revised staff hour estimate guideline and scope of services template	- -
Staff Hour Summary Grand Total	- -	- -	Updated to reflect the revised staff hour estimate guideline and scope of services template	- -
Staff Hour Summary - Firm	- -	- -	Updated to reflect the revised staff hour estimate guideline and scope of services template	- -
Fee Sheet - Prime	- -	- -	Updated to reflect the revised staff hour estimate guideline and scope of services template	- -
Fee Sheet - Sub	- -	- -	Updated to reflect the revised staff hour estimate guideline and scope of services template	- -
		- -		- -

PROJECT DEVELOPMENT & ENVIRONMENT
PROJECT DATA

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Alden Road Connector Bridge PD&E
County: 0
FPN: 0
FAP No.: 0

Consult. Name: Terracon Consultants, Inc.
Consult. No.
Date: 3/2/2018
Estimator: Kimberly

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Registered Professional	Non-Registered Professional	CADD	Field Inspector	Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$66.00	$45.00	$35.42	$32.04	$23.32	$25.48	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
Project Description and Objectives	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Public Involvement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Engineering Analysis & Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Environmental Analysis & Reports	76	15	38	11	8	0	4	0	0	0	0	0	0	76	$3,459	$45.51
Environmental Document	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Design Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	76	15	38	11	8	0	4	0	0	0	0	0	0	76		
Total Staff Cost		$990.00	$1,710.00	$400.62	$256.32	$0.00	$101.92	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00		**$3,458.86**	**$45.51**

Check - $3,458.86

SALARY RELATED COSTS:			$3,458.86
OVERHEAD:	175.00%		$6,053.01
PROFIT	10.00%		$951.19
FCCM (Facilities Capital Cost Money):	0.00%		$0.00
EXPENSES:	0.00%		$0.00
SALARY RELATED SUBTOTAL:			**$10,463.06**
Survey (Field - if by Sub)	0.00	4-man crew days $ - / day	$0.00
SUBTOTAL - SUBCONSULTANT			**$10,463.06**
Optional Services			$0.00
SUBCONSULTANT TOTAL ESTIMATED FEE:			**$10,463.06**

Note:
1. This sheet to be used by Subconsultant to calculate its fee.

5. ENVIRON. ANALYSIS & REPORTS

Estimator:

Alden Road Connector Bridge PD&E

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
NOTE: * subject to QC						
5.1	**Sociocultural Effects**					
	*5.1 Socio-cultural Effects Evaluation Report **	LS	1	0	0	
	*5.1.1 Social **	LS	1	0	0	
	*5.1.2 Economic **	LS	1	0	0	
	*5.1.3 Land Use Changes **	LS	1	0	0	
	*5.1.4 Mobility **	LS	1	0	0	
	*Transit Only **	LS	1	0	0	
	*5.1.5 Aesthetics **	LS	1	0	0	
	5.1.6 Relocation Potential					
	*Review and Impact Determination **	LS	1	0	0	
	*Conceptual Stage Relocation Plan (CSRP) **	LS	1	0	0	
				5.1 Sociocultural Effects Total	**0**	
5.2	**Cultural Resources**					
	5.2.1 Archaeological and Historic Resources					
	Research Design Methodology	LS	1	0	0	
	*Cultural Resource Assessment Survey (CRAS) **	LS	1	0	0	
	CRAS Addendum or Technical Memo. for Pond Sites	LS	1	0	0	
	Determination of Eligibility (DOE) As Required	LS	1	0	0	
	*Case Study Report **	LS	1	0	0	
	*Memorandum of Agreement (MOA) **	LS	1	0	0	
	Section 4(f) Evaluation for Historic Resources	LS	1	0	0	
	Section 106 Consultation Meetings	LS	1	0	0	
	Native American Coordination Meeting	LS	1	0	0	
	Section 106 Public Involvement	LS	1	0	0	
	*5.2.2 Recreation Section 4(f) **					
	Section 4(f) Determination of Applicability	EA	0	0	0	
	*Section 4(f) "de minimis" documentation **	EA	0	0	0	
	*Section 4(f) Evaluation **	EA	0	0	0	
				5.2 Cultural Resources Total	**0**	
5.3	**Natural Resources**					
	5.3.1 Wetlands					
	Wetlands - Data Collection	LS	1	0	0	
	*Wetlands - Evaluation **	LS	1	0	0	
	5.3.2 Essential Fish Habitat					

5. ENVIRON. ANALYSIS & REPORTS

Task No.	Task	Units	# of Units	Hours / Unit	Hours	Comments
	Essential Fish Habitat - Data Collection	*LS*	*1*	*0*	*0*	
	*Essential Fish Habitat - Evaluation **	*LS*	*1*	*0*	*0*	
	*Conceptual Mitigation Plan **	*LS*	*1*	*0*	*0*	
	5.3.3 Wildlife and Habitat					
	Data Collection	*LS*	*1*	*0*	*0*	
	Specific Survey and Consultation	*LS*	*1*	*0*	*0*	
	*Analysis **	*LS*	*1*	*0*	*0*	
	*Conservation Measures and Mitigation Plan **	*LS*	*1*	*0*	*0*	
	5.3.4 Natural Resources Evaluation (NRE) Report	*LS*	*1*	*0*	*0*	
	*5.3.5 Water Quality **	*LS*	*1*	*0*	*0*	
	*5.3.6 Special Designations **	*LS*	*1*	*0*	*0*	
	*5.3.7 Identify Permit Needs **	*LS*	*1*	*0*	*0*	
	*5.3.8 Farmlands **	*LS*	*1*	*0*	*0*	
				5.3 Natural Resources Total	**0**	
5.4	**Physical Effects**					
	5.4.1 Noise					
	Methodology Meeting	*LS*	*1*	*0*	*0*	
	*Data Collection **	*LS*	*1*	*0*	*0*	
	Land Use Field Review/Outdoor Advertising Identification	*LS*	*1*	*0*	*0*	
	*Field Measurement and Model Validation **	*LS*	*1*	*0*	*0*	
	Outdoor Advertising Identification	*LS*	*1*	*0*	*0*	
	Construction Noise and Vibration	*LS*	*1*	*0*	*0*	
	*Analysis and Noise Abatement Evaluation **	*EA*	*0*	*0*	*0*	
	*Noise Report **	*LS*	*1*	*0*	*0*	
	*5.4.2 Transit Noise and Vibration Analysis **	*LS*	*1*	*0*	*0*	
	5.4.3 Air Quality					
	*Data Collection **	*LS*	*1*	*0*	*0*	
	*Screening Analysis **	*LS*	*1*	*0*	*0*	
	*Air Quality Modeling **	*LS*	*1*	*0*	*0*	
	*5.4.4 Construction Impact Analysis **	*LS*	*1*	*0*	*0*	
	5.4.5 Contamination					
	*Field Data **	*LS*	*1*	*12*	*12*	
	*Analysis and Report **	*LS*	*1*	*60*	*60*	
				5.4 Physical Effects Total	**72**	
5.5	**Cumulative Effects Evaluation ***	EA	0	0	0	
5.6	**Project Commitments Record ***	LS	1	0	0	
				Environmental Analysis and Report Subtotal	**72**	
				Hours Subject to QC	**72**	
	Quality Assurance / Quality Control	LS	%	5%	4	
				ENVIRONMENTAL ANALYSIS AND REPORT TOTAL HOURS	**76**	