(Revised March 1, 2022)

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1.	Contract title as shown in the advertisement	IDIQ Contract for Roadway Design Services
2.	Contract number(s) as shown in the advertisement	4400023943
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (as registered with the Louisiana	
	Secretary of State where such registration is required by law)	Lazenby & Associates, Inc.
5.	Prime consultant license number (as registered with the	Engineering 416
	Louisiana Professional Engineering and Land Surveying	Land Surveying 68
	Board (LAPELS) if registration is required under	Duns 062921036
	Louisiana law)	
6.	Prime consultant mailing address	2000 North 7 th Street, West Monroe, LA 71291
7.	Prime consultant physical address (existing or to be	2000 North 7 th Street
	established, if location is used as an evaluation criteria)	West Monroe, LA 71291
8.	Name, title, phone number, and email address of prime	Paul D. Fryer, P.E., P.L.S., Senior Vice-President
	consultant's contract point of contact	Tel: (318) 387-2710 or (318) 237-1203 (cell)
		e-mail: <u>pfryer@lazenbyengr.com</u>
9.	Name, title, phone number, and email address of the	Jerry G. Lazenby, P.E., P.L.S., President
	official with signing authority for this proposal	Tel: (318) 387-2710 or (318) 237-1201 (cell)
		e-mail: jlazenby@lazenbyengr.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9): Jen June 15, 2022 Date: June 15, 2022
11 If a Disadvantaged Business Enterprise (DRF) goal has	Firm(s): Firm(s)' %:
hean set for this advertisement indicate which firm(s)	$\frac{1111(3)}{10\%}$
will be used to meet the DRE goal and each firm(s)?	
percentage.	

<u>12. Past Performance Evaluation Discipline Table:</u>

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for **each past performance evaluation discipline**, as well as the overall total percent of the contract.

The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. The crosswalk from the old categories to the new categories can be found at the link below:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New %20Evaluation%20Disciplines.pdf. (same link as in the advertisement)

Evaluation	% of Overall	Prime			Each Discipline					
Discipline(s)	Contract	Lazenby &	Sigma Consulting	Vectura	must total to					
		Associates, Inc.	Group, Inc.	Consulting	100%					
				Services, LLC						
Road	60%	75%	25%		100%					
Survey	30%	33.3%	66.7%		100%					
Traffic	10%			100%	100%					
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-										
consultant.	consultant.									
Percent of Contract	100%	55%	35%	10%						

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	CADD Drafter	1	3
	CADD Operator	2	2
	Clerical	0	3
	Engineer	5	6
	Engineer Intern	1	1
	Survey Instrumentman	2	2
	Survey Party Chief	2	2
	Principal	1	1
Lazenby & Associates. Inc.	Survey Rodman	2	3
	Supervisor Engineer	1	3
	Surveyor	1	1
	Inspector Certified	0	2
	Inspector	0	1
	Sub-Total	18	30
	Supervisor	2	2
CONSULTING SERVICES, LLC	Engineer	3	5
Vectura Consulting Services, LLC	Sub-Total	5	7

	Principal	1	1
	Supervisor – Eng.	3	4
	Engineer	3	4
CONSULTING	Surveyor	1	1
CROUP INC	Engineer Intern	5	5
GROUF, INC.	CADD Operator	2	2
ENGINEERING & SURVEYING	CADD Technician	3	3
	Party Chief	1	1
Sigma Consulting Group, Inc.	Insrument Man	2	2
	Sr. Technician	0	2
	Clerical	1	4
	Sub-Total	22	29
	Total	45	66



LEGEND

- Lazenby & Associates, Inc.
- Sigma Consulting Group, Inc.
- Vectura Consulting Services, LLC

^ Completed work zone training requirements. @ Meets MPR

^* Alex Farr, P.E. ^ Joshua Renard, P.E.

QA/QC

^@ Jerry G. Lazenby, P.E., P.L.S. ^@ Paul D. Fryer, P.E., P.L.S.

* Completed traffic engineering analysis process and report training through LTRC.

Contract No. 4400023943

<u>15. Minimum Personnel Requirements:</u>

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Jerry G. Lazenby, P.E., P.L.S.	Lazenby & Associates, Inc.	Civil P.E.# 12104	LA	03/31/2024
2	Jerry G. Lazenby, P.E., P.L.S.	Lazenby & Associates, Inc.	Civil P.E.# 12104	LA	03/31/2024
3	Paul D. Fryer, P.E., P.L.S.	Lazenby & Associates, Inc.	Civil P.E.# 23426	LA	09/30/2023
3	James Ryan Spillers, P.E.	Lazenby & Associates, Inc.	Civil P.E.# 28574	LA	09/30/2023
4	Ronald J. Riggin, P.E., P.L.S.	Lazenby & Associates, Inc.	P.L.S.# 05119	LA	03/31/2023
4	Derek Wheat, P.L.S.	Sigma Consulting Group, Inc.	P.L.S.# 05213	LA	09/30/2023
5	Sheelagh Brin Ferlito, P.E., P.T.O.E.	Vectura Consulting Services, LLC	P.E.# 0025383	LA	09/30/2023
5	Laurence Lambert, P.E., P.T.O.E., P.T.P.	Vectura Consulting Services, LLC	P.E.# 0029901	LA	03/31/2024
5	Prasanth Malisetty, P.E., P.T.O.E., P.T.P., R.S.P.1.	Vectura Consulting Services, LLC	P.E.# 0035792	LA	03/31/2023
5	Reece Rodrigue, P.E., P.T.O.E.	Vectura Consulting Services, LLC	P.E.#0042074	LA	03/31/2024

(Add rows as needed)

16. Staff Experience:

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés should be limited to 2 pages per person. Any certificates required by the advertisement are to be placed in Section 20.

See attached sheets for Résumés.

Firm employed by Lazenby & Associates, Inc.									
Name Ellingbur	g, James S. P.E.			Years of experience with this firm/employer	14				
Title Project Er	ngineer			Years of experience with other firm(s)/employer(s) 0					
Degree(s) / Years / Specialization				BS / 2008 / Civil Engineering					
Active registration nu	umber / state / expiration da	ite	P.E. (0037236 / Louisiana / 09/30/2022					
C	•								
Year registered	2012	Discipline	Civil	Engineering		I 12			
Contract role(s) / brie	ef description of responsibil	ities	Road	Design, Hydraulic Analysis & Design, Topographic Survey					
Experience dates	Experience and qualific	cations relevant to	the pr	oposed contract; i.e., "designed drainage", "designed girders", "de	signed i	intersection", etc.			
(mm/yy–mm/yy)	Experience dates should	cover the time spe	cified i	n the applicable MPR(s).	-				
	Mr. Ellingburg has over	r 14 years of expe	rience	in developing roadway plans on both LDOTD and local roadway pro	ojects.	Mr. Ellingburg is			
	familiar with the LDOT	D Roadway Desig	gn Proc	cedure and Details Manual and the LDOTD Hydraulics Manual, as	well as	AASHTO design			
	standards for roadway d	esign. Mr. Ellingb	urg has	assisted in hydraulic analysis and design, as well as roadway design ar	id prepa	ration of roadway			
	plans, on a variety of roa	adway projects.							
		C 11 1 4 1	4 61						
	Mr. Ellingburg has succ	Control Toohnicion	Course	lowing continuing education classes, workshops, and seminars:					
	LA Specific Traffic (Control Supervisor	Course	$\sim 2020 \text{ (refresher)}$					
	Designing Streets for	Dedestrians and P	iovolist	s Workshop 2016					
	Highway Safety Man	Val Workshop 20	icyclist 16	s workshop, 2010					
	Roundabout Design	Workshop 2013	10						
	Traffic Engineering	Analysis Process &	Repor	t Class Module 1 2 & 3 2021					
	One-Dimensional Me	deling of River Er	icroach	ments with HEC-RAS Class. 2022					
08/08 - 05/16	State Project No. H.002	622: Arkansas Roa	ad (LA	616). Ouachita Parish. Mr. Ellingburg served as a project staff engi	neer. ass	sisting the project			
	engineer with developm	ent of existing drai	inage m	haps, drainage design maps, utility adjustments, and developing roadw	ay plans	s. Mr. Ellingburg			
	also assisted with round	about designs, and	l seque	nce of construction in both Preliminary and Final plan development.	This pr	oject consisted of			
	widening a 3.2-mile port	ion of LA 616 fron	1 a two-	lane section to a five-lane urban roadway, and included four multi-lane	roundab	outs that required			
	extensive geometric des	ign and graphical g	grade de	evelopment in order to meet AASHTO and LDOTD standards and requ	iirement	ts for safety.			
12/10 - 10/12	State Project No. H.003	854: Bossier North	n-South	Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange	to Crouc	ch Road), Bossier			
	Parish. Mr. Ellingburg	served as a projec	t staff	engineer, working on development of existing drainage maps, design	drainag	ge maps, roadway			
	drainage plans, and assis	sting with roadway	and br	idge design and plan development for both Preliminary and Final plan	is. This	project consisted			
	of reconstruction and re	alignment of a 3.7	-mile so	ection of Swan Lake Road and construction of a new 4.2 mile roadwa	iy conne	ecting Swan Lake			
	Road and Crouch Road.	The southern por	tion of	the project contains an urban three-lane section, while the northern se	gment is	s a rural, two-lane			
	roadway. There are three bridge sites on the project.								
11/11 - 01/12	State Project No. H.004	684: El Camino Ea	st/West	t Corridor, Route LA 6, Natchitoches Parish. Mr. Ellingburg served as	a projec	ct staff engineer,			
	developing existing drai	nage maps for a D	OTD T	opographic Survey.					
09/16 - Present	State Project Nos. H.004	774 & H.007300:]	Kansas	Lane - Garrett Road Connector and I-20 Improvements, Ouachita Paris	sh. Mr.	Ellingburg served			
	as a project staff engineer, developing existing drainage maps for the topographic survey portion of the project. During the design and pla								
	preparation portion of the project, Mr. Ellingburg has performed drainage design, developed design drainage maps, and assisted with design of five								
	multi-lane roundabouts, developing graphical grades and assisting with geometric design. This urban project includes five multilane roundabour								

	and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety. The final plans are currently 98% complete.
01/17 – Present	Ouachita Parish Police Jury Road Program. Mr. Ellingburg is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of evaluating parish roadways and developing pavement preservation construction plans, including hydraulic design of cross drain structures, to preserve and extend the life of Ouachita Parish roadways, some of which are design and constructed under the DOTD Urban Systems program. Mr. Ellingburg has also served as project engineer during construction, ensuring that the projects are built in accordance with the plans and specifications.
	Some of the Ouachita Parish Urban System projects that Mr. Ellingburg has provided professional services on include the following:
	 State Project No. H.011743 – 40 Oaks Farm Road (Mill, Patch and Overlay) State Project No. H.011742 – Ole Hwy 15 (Reconstruction) State Project No. H.011783 – Parker Road (Mill, Patch and Overlay) State Project No. H.011747 – Edwards Road (Reconstruction) State Project No. H.013804 – Wall Williams Road (Mill, Patch and Overlay and includes a segment of Reconstruction) State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction)

Page 2 of 2 Ellingburg, James S., P.E.

Firm employed by Lazenby & Associates, Inc.						
Name Fryer	, Paul D. P.E., P.L.S.			Years of experience with this firm/employer 36	2	
Title Senior	le Senior Vice-President			Years of experience with other firm(s)/employer(s) 2		
Degree(s) / Year	rs / Specialization		B.S. /	/ 1984 / Civil Engineering		
Active registration	on number / state / expiration of	late	P.L.S	. 0004806/ Louisiana / 09/30/2023		
Active registration	on number / state / expiration e	late	P.E. (0023426 / Louisiana / 09/30/2023		
Year registered	1987	1987 Discipline		ssional Engineer (Civil and Environmental)	5	
i cui registerea	1997 Discipline		Profe	ssional Land Surveyor		
Contract role(s)	/ brief description of responsib	oilities	Proje	ct Management, Road Design, and QA-QC		
Experience dates	Experience and qualificat	ions relevant to the	he prop	posed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection	", etc.	
(mm/yy–mm/yy) Experience dates should co	over the time speci	ified in	the applicable MPR(s).		
	Mr. Fryer has over 36 years	s of experience in p	lanning	g, surveying, designing, inspecting, and construction administration of transportation fac	ilities.	
	Mr. Fryer is familiar with	LDOTD and AA	ASHIC) design standards for roadway design and plans development. Mr. Fryer has perf	ormed	
	professional engineering a	nd land surveying	service	es on a variety of projects involving line and grade studies, major investment studies, lo	cation	
	and Stage "0" studies as w	d final manufacture al	survey	s, property surveys, development of ROW maps. Mr. Fryer also has extensive experie	nce in	
	developing prenninary and	u final roadway pi	ans on	a variety of LDOTD projects.		
	Mr. Fryer is familiar with	the LDOTD Locat	ion and	d Survey Manual for conducting tonographic surveys, property surveys and developing	right_	
	of-way maps He is also f	amiliar with the d	esion re	equirements of L DOTD and has extensive experience in the development of prelimina	ry and	
	final roadway plans			equilements of ED01D and has extensive experience in the development of premining	ry and	
	initia rota way plants.					
	Mr. Frver has successfully	completed the fol	lowing	continuing education classes, workshops, and seminars:		
	LA Specific Traffic Co	ntrol Technician C	Course,	2020 (refresher)		
	LA Specific Traffic Co	ntrol Supervisor C	ourse,	2020 (refresher)		
	National Environmental Policy Act (NEPA) and Transportation Decision Making					
		•	<i>,</i>			
	On this project Mr. Fryer r	neets the MPR Re	quirem	ent Nos. 2 and 3.		
01/96 - 09/96	State Project No. 038-03-0	022: US 425 (Bas	strop – I	Log Cabin), Morehouse Parish. Mr. Fryer prepared preliminary roadway and bridge pla	ans for	
expanded line and grade study. This project involved widening a 3.2-mile segment of US 425 to four lanes.						
04/96 - 12/96	State Project No. 038-03-0	024: US 425 (Log	g Cabin	1 – Junction LA 142), Morehouse Parish. Mr. Fryer prepared preliminary roadway and	bridge	
plans for expanded line and grade study. This project involved widening a 5.2-mile segment of US 425 to four lanes.						
04/95 - 03/00	State Project No. 043-01-0	017: Dugdemona	River a	and Relief Bridges, Jackson Parish. Mr. Fryer prepared preliminary and final roadway	plans.	
This project consisted of the construction of two voided slab span bridges (main bridge and relief structure) an				oided slab span bridges (main bridge and relief structure) and roadway approaches o	n new	
11/05 05/05	alıgnment.	011 D D == 1				
11/95 - 06/00	State Project No. 172-01-0	011: Bayou DeGla	use Bri	dge, Morehouse Parish. Mr. Fryer prepared preliminary and final roadway and final ro	adway	
01/07 10/00	plans. This project consist	ed of the construct	tion of	a slab span bridge and roadway approaches on new alignment.	<u> </u>	
01/97 – 10/99	State Project No. 026-05-0	017: LA 15 (Sicil	y Islan	d – Jct. LA 913), Catahoula Parish. Mr. Fryer was responsible for preparation of prelir	ninary	
and final roadway and bridge plans. This project consisted of widening a 4.5 mile segment of LA 15 to four lanes as			consisted of widening a 4.5 mile segment of LA 15 to four lanes as part of the LA T	IMED		
	Program.					

01/04 - 05/07	State Project No. 700-30-0061: US 167, Lillie to Arkansas State Line, Union Parish. Mr. Fryer served as project manager, roadway designer, and						
	surveyor responsible for development of final roadway plans, and right-of-way maps. This project consisted of the conversion of a 7.2-mile						
	section of a rural two-lane arterial route to a four-lane divided arterial route under the LA TIMED Program.						
10/07 - 04/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Fryer served as project manager, was responsible for QA-QC of the						
	plans, and was surveyor in charge of right-of-way maps. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section						
	to a five-lane urban roadway, and included four multi-lane roundabouts.						
07/10-05/18	State Project No. H.003854: Bossier North-South Corridor from Route I-220/Swan Lake Road Interchange to Crouch Road, Bossier Parish. Mr.						
	Fryer served as project manager, was responsible for QA-QC of the plans, and was the surveyor in charge of right-of-way maps. This project						
	consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting						
	Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a						
	rural, two-lane roadway. There are three bridge sites on this project.						
02/18 - Present	State Project No. H.007300: Kansas Lane - Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Fryer serves as project						
	manager, is responsible for QA-QC of the roadway plans, and prepared right-of-way maps for the widening of a section of Garrett Road crossing						
	I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the						
	design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final						
	plans for this project are currently 98% complete.						
05/08 - 05/12	State Project No. H.004780.5 – Kansas Lane Connector (Route US 80 to Route US 165) City of Monroe Urban systems, Ouachita Parish. Mr.						
	Fryer served as project manager and surveyor responsible for conducting topographic surveys, property surveys, and developing right-of-way						
	maps as a sub-consultant to Denmon Engineering Co., Inc. This project involves construction of a four-lane urban arterial route around the						
	University of Louisiana at Monroe connecting US 80 on the south end and US 165 on the northern end.						
11/10 - 05/13	Project Surveyor for Contract No. 4400000685: Retainer Contract for Professional Surveying Services - Statewide. This retainer contract						
	authorized 23 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.						
03/08 - 04/11	Project Surveyor on Contract No. 4400000638: Retainer Contract for Professional Surveying Services - Statewide. This retainer contract						
	authorized 15 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.						
11/11 - 01/15	Project Surveyor on Contract No. 4400001328: Retainer Contract For Professional Surveying Services - Statewide. This retainer contract						
	authorized 25 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.						

Page 2 of 2 Fryer, Paul D. P.E., P.L.S.

Firm employed by Lazenby & Associates, Inc.								
Name I	Hammons, Randy C., P.E.			Years of experience with this firm/employer	21			
Title				Years of experience with other firm(s)/employer(s)	8			
Degree(s) / Years	s / Specialization		B.S. / 1993 / Civil Engineering					
Active registration number / state / expiration date				0029504 / Louisiana / 09/30/2023				
Year registered	2001	Discipline	Civil Engineering					
Contract role(s) /	brief description of responsibilities	3	Торо	ographic Survey				
Experience dates (mm/yy-mm/yy)	Experience and qualifications re	elevant to the prop	oosed c	ontract; <i>i.e.</i> , "designed drainage", "designed girders", "designed	d intersection", e	tc.		
	Mr. Hammons has in excess of 2 Tennessee and Louisiana. Mr. H digital terrain models (DTM's) Mr. Hammons has successfully	5 years of experie lammons has appr and developing ex completed the fol	ence in proximate coximate coxing of lowing	planning and designing highways and bridges on transportation ely 15 years of experience supervising and processing topograph drainage maps, for LDOTD projects.	projects in Arkan ic survey data, in	ısas, Mississippi, ıcluding creating		
	LA Specific Traffic Control LA Specific Traffic Control	Technician Cours Supervisor Cours	e, 2020 e, 2020	(refresher) (refresher)				
10/14 - 06/17Project Engineer processing topographic survey Retainer Contract for Professional Surveying Se various projects at a cost of \$811,513 over a 3-State Project No. H.002059.5 - LA 384 @ LA				a and development of topographic survey maps and images for Statewide. This retainer contract contained eight task orders to od. Some of the task orders for Topographic Surveys were as for ersection Improvements in Calcasieu Parish. $(12/08/2014 - 0$	State Contract N perform topogra ollows: 2/06/2015). Top	Vo. 4400004541: aphic surveys for pographic survey		
	using GPS receivers and robotic State Project No. H.004774.5 – I Topographic survey using GPS State Project No. H 012316 – I-	total stations. Kansas Lane – Gar receivers and robo 20 Pedestrian Ονε	rrett Ro otic tot	ad Connector & I-20 Interchange Improvements, in Ouachita Pa al stations. Replacement Project on Route I-20 in Caddo Parish (07/11/201	arish. $(06/18/201$ 6 – 11/30/2016)	5 – 06/17/2016).		
	Topographic survey of a damag	ed pedestrian over	rpass u	sing GPS receivers, robotic total stations, and a TX-8 terrestrial	l scanner.			
	State Project No. H.001270.5 – Topographic Survey of road and	LA I-X: Natchitod l bridge replacem	ches By ent pro	⁷ -Pass on Keyser Avenue and the Cane River in Natchitoches Pa ject using GPS receivers, robotic total stations and a TX-8 terre	arish. (04/03/201 estrial scanner.	7 – 07/30/2017).		
State Project No. H.009997.5 – US 167: Johnston Street Improvements on Route US 167 in Lafayette Parish. (04/12/2017 – 09/2 survey of a heavily traveled urban system route in Lafayette, Louisiana using GPS receivers, robotic total stations and a SX-10 te					017 – 09/29/2017 a SX-10 terrestria	7). Topographic al scanner.		
01/10/2017 - 01/10/2020Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4 Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained six task orders to perform topographic various projects at a cost of \$989,478 over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows:					Io. 4400009384: aphic surveys for			
	State Project No. H.003370.5 – the proposed I-220/I-20 Interch scanner.	I-220/I-20 Intercl ange and BAFB	hange a Access	nd BAFB Access, Route I-220 & I-20 in Bossier Parish (04/1 roadway in Bossier Parish using GPS receivers, robotic total	6/2018). Topog stations, and a S	raphic survey of SX-10 terrestrial		

	State Project No. H.007300.5 & H004774.5 – Kansas Lane – Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/16/2018) Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
	State Project No. H.012036.5 – US 80: Boeuf River Bridge in Richland Parish (03/19/2019). Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
10/20 - 06/22	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained fifteen task orders to perform topographic surveys for various projects at a cost of \$1,647,265 over a 5-year time frame. Some of the task orders for Topographic Surveys were as follows:
	State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021). Topographic survey of the BNSF RR and several local urban routes and crossings in the town of Baldwin, Louisiana using GPS receivers and robotic total stations.
	State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges.
	State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021). Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges.
	State Project No. H.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021). Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails.
	State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021). Topographic survey of a proposed roundabout site located at the intersection of LA 406 and Keating Dr and F.E. Hebert Blvd using GPS receivers and robotic total stations.
	State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021). Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection.
	State Project No. H.012541.5 – LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022). Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate.
	State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022). Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 7,130 LF of I-20 mainline.

Page 2 of 2 Hammons, Randy C., P.E.

Firm employed by Lazenby & Associates, Inc.							
Lawren	nce, Hagan H., P.E.		Years of experience with this firm/employer	5			
Assistant Project Engineer			Years of experience with other firm(s)/employer(s)	2			
/ Specia	lization		B.S. / 2015 / Civil Engineering		NZSP		
Active registration number / state / expiration date			P.E. 0043645 / Louisiana / 03/31/2024				
	2019	Discipline	Civil Engineering				
brief des	cription of responsibilities		Road Design, Hydraulic Analysis & Design				
Exper should	ience and qualifications rel l cover the time specified ir	levant to the proposed control of the applicable MPR(s).	ontract; <i>i.e.</i> , "designed drainage", "designed girders", "designed inte	rsection", etc. I	Experience dates		
Mr. Lawrence has 6 years of experience in performing drainage design, hydraulic analysis, and development of roadway plans on both LDOTD and local roadway projects. Mr. Lawrence is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Lawrence has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects.							
Mr. Lawrence has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 LA Specific Traffic Control Supervisor Course, 2020 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021							
State	Project No. H010287: Wel	ll Road Roundabout, Ou	achita Parish. Mr. Lawrence Assisted with Hydraulic Study, Plan	Preparation, as	well as quantity		
calcul	ations (with previous emplo	oyer). This project invol-	ved the construction of a roundabout at the I-20 westbound ramp term	inal with Well R	load.		
State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Lawrence has assisted with hydraulic study and design, and assisted with development of drainage plan-profile sheets and design drainage maps. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.							
Ouachita Parish Police Jury Road Program. Mr. Lawrence is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of developing pavement preservation roadway plans, including hydraulic design of cross drain structures, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program.							
Some of the Ouachita Parish Urban Systems projects that Mr. Lawrence has provided professional services on include the following:							
Sta	te Project No. H.011745 –	Sandal Street (Reconstru	iction)				
Sta	te Project No. H.011784 –	Stubbs-Vinson Road (Ma	ill, Patch and Overlay)(Project included 8' x 8' RCB)				
Sta	te Project No. H.013791 –	Hadley Street (Mill, Patc	th and Overlay and includes a segment of Reconstruction)				
Sta	te Project No. H.013//6 –	Well Road (Mill, Patch a Garrett Pood (Mill, Patch	and Overlay)				
	by La Lawren Assista / Specia n numbe brief des Exper should Mr. La projec design on a v Mr. La LA LA Tra On State I and de interst Ouach develo some Some Sta Sta Sta Sta	by Lazenby & Associates, In Lawrence, Hagan H., P.E. Assistant Project Engineer / Specialization n number / state / expiration date 2019 brief description of responsibilities Experience and qualifications relishould cover the time specified in Mr. Lawrence has 6 years of experionetry of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mr. Lawrence has successfully conduct a variety of roadway projects. Mreal a variety of roadway projects. <td>by Lazenby & Associates, Inc. Assistant Project Engineer / Specialization number / state / expiration date 2019 Discipline brief description of responsibilities Experience and qualifications relevant to the proposed c should cover the time specified in the applicable MPR(s). Mr. Lawrence has 6 years of experience in performing drait projects. Mr. Lawrence is familiar with the LDOTD Road design standards for roadway design. Mr. Lawrence has a on a variety of roadway projects. Mr. Lawrence has successfully completed the following c LA Specific Traffic Control Technician Course, 2020 LA Specific Traffic Control Supervisor Course, 2020 Draffic Engineering Analysis Process & Report Class I One-Dimensional Modeling of River Encroachments v State Project No. H010287: Well Road Roundabout, Ou calculations (with previous employer). This project invol State Project No. H.007300: Kansas Lane – Garrett Road and design, and assisted with development of drainage pla interstate ramp modifications. The final plans are current Ouachita Parish Police Jury Road Program. Mr. Lawrence developing pavement preservation roadway plans, includir some of which are constructed under the DOTD Urban Sy Some of the Ouachita Parish Urban Systems projects that State Project No. H.011745 – Sandal Street (Reconstru State Project No. H.013791 – Hadley Street (Mill, Patch a State Project No. H.0137076 – Well Road (Mill, Patch a State Project No. H.0137076 – Well Road (Mill, Patch a State Project No. H.0137076 – Well Road (Mill, Patch a State Project No. H.013707 – Garrett Road (Mill, Patch a State Project No. H.013707 – Garret Road (Mill, Patch a State Project No. H.013707 – Sandal Stree</td> <td>by Lazenby & Associates, Inc. Lawrence, Hagan H., P.E. Years of experience with this firm/employer Assistant Project Engineer Years of experience with other firm(s)/employer(s) / Specialization B.S. / 2015 / Civil Engineering a number / state / expiration date P.E. 0043645 / Louisiana / 03/31/2024 2019 Discipline Civil Engineering brief description of responsibilities Road Design, Hydraulic Analysis & Design Experience and qualifications relevant to the proposed contract; <i>i.e.</i>, "designed drainage", "designed girders", "designed inte should cover the time specified in the applicable MPR(s). Mr. Lawrence has 6 years of experience in performing drainage design, hydraulic analysis, and development of roadway plans or projects. Mr. Lawrence is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraul design standards for roadway design. Mr. Lawrence has assisted in hydraulic analysis and design, as well as roadway design a on a variety of roadway projects. Mr. Lawrence has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 Taffic Engineering Analysis Procees & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022 State Project No. H010287: Well Road Roundabout, Ouachita Parish. Mr. Lawrence Assisted with Hydraulic Study, Plan calculations. The final plans are curr</td> <td>by Lazenby & Associates, Inc. Lawrence, Hagan H., P.E. Years of experience with this firm/employer 5 Assistant Project Engineer Years of experience with other firm(s)/employer(s) 2 / Special/Ization B.S. / 2015 / Civil Engineering 2 anumber / state / expiration date P.E. 0043645 / Louisiana / 03/31/2024 2 2019 Discipline Civil Engineering 2 Experience and qualifications relevant to the proposed contract; <i>i.e.</i>, "designed drainage", "designed girders", "designed intersection", etc. 1 should cover the time specified in the applicable MPR(s). Mr. Lawrence has 6 years of experience in performing drainage design, hydraulic analysis, and development of roadway plans on both LDOTD a question procedure and Details Manual and the LDOTD Hydraulics Manual, as w design standards for roadway design. State Project No. Lawrence has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Supervisor Course, 2020 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Herorachments with HEC-RAS Class, 2022 State Project No. H010287: Well Road Roundabout, Ouachita Parish. Mr. Lawrence hassisted with Hydraulic Study, Plan Preparation, as calculations (with previous employer). This project involved the construction of a roundabout at h-220 weshound ramp terminal with Well R State</td>	by Lazenby & Associates, Inc. Assistant Project Engineer / Specialization number / state / expiration date 2019 Discipline brief description of responsibilities Experience and qualifications relevant to the proposed c should cover the time specified in the applicable MPR(s). Mr. Lawrence has 6 years of experience in performing drait projects. Mr. Lawrence is familiar with the LDOTD Road design standards for roadway design. Mr. Lawrence has a on a variety of roadway projects. Mr. Lawrence has successfully completed the following c LA Specific Traffic Control Technician Course, 2020 LA Specific Traffic Control Supervisor Course, 2020 Draffic Engineering Analysis Process & Report Class I One-Dimensional Modeling of River Encroachments v State Project No. H010287: Well Road Roundabout, Ou calculations (with previous employer). This project invol State Project No. H.007300: Kansas Lane – Garrett Road and design, and assisted with development of drainage pla interstate ramp modifications. The final plans are current Ouachita Parish Police Jury Road Program. Mr. Lawrence developing pavement preservation roadway plans, includir some of which are constructed under the DOTD Urban Sy Some of the Ouachita Parish Urban Systems projects that State Project No. H.011745 – Sandal Street (Reconstru State Project No. H.013791 – Hadley Street (Mill, Patch a State Project No. H.0137076 – Well Road (Mill, Patch a State Project No. H.0137076 – Well Road (Mill, Patch a State Project No. H.0137076 – Well Road (Mill, Patch a State Project No. H.013707 – Garrett Road (Mill, Patch a State Project No. H.013707 – Garret Road (Mill, Patch a State Project No. H.013707 – Sandal Stree	by Lazenby & Associates, Inc. Lawrence, Hagan H., P.E. Years of experience with this firm/employer Assistant Project Engineer Years of experience with other firm(s)/employer(s) / Specialization B.S. / 2015 / Civil Engineering a number / state / expiration date P.E. 0043645 / Louisiana / 03/31/2024 2019 Discipline Civil Engineering brief description of responsibilities Road Design, Hydraulic Analysis & Design Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed inte should cover the time specified in the applicable MPR(s). Mr. Lawrence has 6 years of experience in performing drainage design, hydraulic analysis, and development of roadway plans or projects. Mr. Lawrence is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraul design standards for roadway design. Mr. Lawrence has assisted in hydraulic analysis and design, as well as roadway design a on a variety of roadway projects. Mr. Lawrence has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 Taffic Engineering Analysis Procees & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022 State Project No. H010287: Well Road Roundabout, Ouachita Parish. Mr. Lawrence Assisted with Hydraulic Study, Plan calculations. The final plans are curr	by Lazenby & Associates, Inc. Lawrence, Hagan H., P.E. Years of experience with this firm/employer 5 Assistant Project Engineer Years of experience with other firm(s)/employer(s) 2 / Special/Ization B.S. / 2015 / Civil Engineering 2 anumber / state / expiration date P.E. 0043645 / Louisiana / 03/31/2024 2 2019 Discipline Civil Engineering 2 Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. 1 should cover the time specified in the applicable MPR(s). Mr. Lawrence has 6 years of experience in performing drainage design, hydraulic analysis, and development of roadway plans on both LDOTD a question procedure and Details Manual and the LDOTD Hydraulics Manual, as w design standards for roadway design. State Project No. Lawrence has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Supervisor Course, 2020 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Herorachments with HEC-RAS Class, 2022 State Project No. H010287: Well Road Roundabout, Ouachita Parish. Mr. Lawrence hassisted with Hydraulic Study, Plan Preparation, as calculations (with previous employer). This project involved the construction of a roundabout at h-220 weshound ramp terminal with Well R State		

Firm er	Firm employed by Lazenby & Associates, Inc.							
Name	Lazenb	y, Jerry G. P.E., P.L.S.		Years of experience with this firm/employer 41				
Title	Presider	nt		Years of experience with other firm(s)/employer(s) 16				
Degree(s	s) / Years /	Specialization		B.S. / 1965 / Civil Engineering				
Activo	anistration	number (state (avaination d	ata	P.L.S. 0002313/ Louisiana / 03/31/2024				
Active re	Active registration number / state / expiration date			P.E. 0012104 / Louisiana / 03/31/2024				
Voor roo	Vernetister d 1970 Dissipling			Professional Land Surveyor				
I cal leg	Istered	1970	Discipline	Professional Engineer (Civil and Environmental)				
Contract	role(s) / b	rief description of responsibi	lities	Principal-In-Charge, Project Supervisor and Contract Management, QA-QC				
Experier	nce dates	Experience and qualification	ns relevant to the proposed	d contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience				
(mm/yy-	-mm/yy)	dates should cover the time	specified in the applicable	e MPR(s).				
		Mr. Lazenby has over 50 ye	ears of experience in plann	ing, surveying, designing, inspecting, and construction administration of transportation facilities.				
		The first 9 years of Mr. La	zenby's career were spend	l with the U.S. Bureau of Public Roads/Federal Highway Administration at various locations in				
		the United States as a H	ighway Engineer reviewi	ing and assisting state highway officials with transportation projects utilizing Federal-Aid				
		transportation funding from	n project inception through	construction.				
		Mr. Lazenby has designed	and supervised numerous	projects for LDOTD over the past 45 years. He has been responsible for the firm's growth as				
		well as the reputation of the	e firm. He has instilled in	each member of the firm to provide a professional product and to deliver on time.				
		g continuing education classes, workshops, and seminars:						
		LA Specific Traffic Cor	ntrol Technician Course, 20	020 (refresher)				
		LA Specific Traffic Cor	trol Supervisor Course, 20)20 (refresher)				
		National Environmental	Policy Act (NEPA) and T	ransportation Decision Making				
			• • •					
		On this project, Mr. Lazent	by meets the MPR Require	ments No. 1 and No. 2.				
06/04 - 0	03/05	State Project No. 700-37-0	102: US 165 (Jct. LA 841	- Rilla), Ouachita Parish. Mr. Lazenby was Principal-in-Charge of this project and performed				
01/06 - 0	06/09	QA-QC reviews of the plan	s. On this project Lazenby	/ & Associates performed topographic surveys, property surveys, ROW maps, alignment studies,				
		and prepared preliminary a	nd final roadway plans on	a 4.5-mile section of US 165 being widened and upgraded to a four-lane divided arterial route				
		under the Louisiana TIME	D Program.					
05/00 - 0	05/04	State Project No. 700-99-02	237: Retainer Contract for	Professional Surveying Services, Statewide. Mr. Lazenby was Principle-in-Charge responsible				
		for 15 Task Orders to perfo	orm topographic surveys, p	roperty surveys, and develop ROW maps on various LDOTD projects in northern Louisiana.				
01/04 - 0	05/07	State Project No. 700-30-0	061: US 167 (Lillie to Ark	cansas State Line), Union Parish. Mr. Lazenby was Principle-in-Charge on this project. On this				
		project, Lazenby & Associa	ates developed final roadw	vay plans, final bridge plans, and ROW maps on a 7-mile section of US 167 that was widened to				
		a four-lane rural and urban	arterial route under the Lo	uisiana TIMED Program.				
07/10 - 1	12/13	State Project No. H.00385	4: Bossier North-South C	orridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier				
		Parish. Mr. Lazenby was	Principle-in-Charge and	performed QA-QC reviews of the plans. On this project, Lazenby & Associates developed				
		topographic surveys, prope	rty surveys, right-of-way n	naps, preliminary roadway and bridge plans and final roadway and bridge plans along a 7.8-mile				
		corridor being developed as an Urban Systems Project by the Bossier Parish Police Jury.						

	nojeci,
Lazenby & Associates performed topographic surveys, property surveys and developed right-of-way maps, preliminary roadway plans an	d final
roadway plans for the widening of a 3.2-mile section of LA 616 from a two-lane rural roadway section to a five-lane urban roadway section in	cluding
four multi-lane roundabouts. The project also included the hydraulic analysis of an existing timber bridge site in which the bridge was replace	ed with
a reinforced concrete box culvert.	
09/16 - Present State Project Nos. H.004774 & H.007300: Kansas Lane - Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Lazenby is Pr	nciple-
in-Charge. On these projects, Lazenby & Associates performed topographic surveys, developed preliminary roadway plans, and is c	rrently
developing final roadway plans for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhave	n Road
and the KCS Railroad track to a four-lane arterial route with five multi-lane roundabouts. The project includes hydraulic and drainage studies	and the
development of drainage plans to improve drainage within the project area. Final plans for the transportation project are currently 98% comp	ete.
04/95 - 03/00 State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish. Mr. Lazenby was Principal-in-Charge, Project Manager 104/95 - 03/00	er, and
provided QA-QC plan reviews for the project, which consisted of the construction of two voided slab span bridges (main bridge and relief st	ucture)
and roadway approaches on new alignment.	
11/95 - 06/00 State Project No. 172-01-0011: Bayou DeGlaise Bridge, Morehouse Parish. Mr. Lazenby was Principal-in-Charge, Project Manager, and p	ovided
QA-QC plan reviews for the project, which involved the construction of a slab span bridge and roadway approaches on new alignment.	

Page 2 of 2 Lazenby, Jerry G. P.E., P.L.S.

Firm employed	by Lazenby & Associates	, Inc.						
Name Riggin	, Ronald J., II, P.E., P.L.S.		Years of relevant experience with this employer	11				
Title Project	Surveyor		Years of relevant experience with other employer(s)	5	and the second			
Degree(s) / Years	/ Specialization		B.S. / 2006 / Civil Engineering					
Active registration	number / state / expiration date		P.L.S. 0005119/ Louisiana / 03/31/2023		C.			
			P.E. 0036016 / Louisiana / 03/31/2023					
Year registered	2014 D	oiscipline	Professional Land Surveyor					
2011			Professional Engineer (Civil)					
Contract role(s) / l	prief description of responsibiliti	ies	Topographic Survey					
Experience dates	Experience and qualifications	s relevant to the	e proposed contract; i.e., "designed drainage", "designed girders", "desi	gned in	tersection", etc.			
(mm/yy–mm/yy)	Experience dates should cove	r the time specit	fied in the applicable MPR(s).					
	Mr. Riggin is familiar with the surveys and hydrographic sur- topographic surveys, property performing topographic surve Mr. Riggin has successfully c LA Specific Traffic Control LA Specific Traffic Control ATSSA Course for Traffic I	of the LDOTD Location and Survey Section for conducting topographic in is responsible for quality control of all survey data obtained by survey ydrographic surveys. Mr. Riggin has over five (5) years of experience in veys, and developing right-of-way maps. ving continuing education classes, workshops, and seminars: urse, 2020 (refresher) urse, 2020 (refresher)	crews i conduc	, property in conducting cting and				
	On this project, Mr. Riggin m	eets the MPR R	equirement No. 4.					
07/14 - 06/16	Retainer Contract No. 4400003471 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of \$436,473,00 for LDOTD State Projects at various locations in porthern Louisiana							
04/13 - 06/16	Project Surveyor for Contract No. 4400002862, S.P. # H.008768 – Hydrographic Survey Monitoring of Existing Bridges – Statewide (Nor Region). Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties include supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.							
04/14 – Present	Professional Surveyor of Reco and commercial development residential and commercial de	ord for developi s in Ouachita Pa evelopments.	ing topographic surveys and Property Surveys for private clients on resid arish and northern Louisiana. Professional Engineer of Record for the ov	ential de verall de	evelopments esign of			
03/15 - 08/17	7 State Project No. H.011742: Ole Highway 15 Improvements, Ouachita Parish. Mr. Riggin performed a topographic survey of a 2.2-mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design. This project consisted pavement reconstruction under the DOTD Urban Systems program. (Note that we typically perform a full topo survey, within existing roof-way, on pavement preservation projects on Ouachita Parish roadways. This is not always done on pavement preservation projects in other parts of the state.)							
05/16 - 02/18	Project Surveyor on the Steep topographic survey of the alig He also conducted a boundary descriptions.	Bayou Sewer M gnment for a sew y survey of the r	Main project of the West Ouachita Sewerage District No. 5. Mr. Riggin ver main trunk line from I-20 to New Natchitoches Road along Steep Bay right-of-way parcels along this route and developed the necessary ROW is	perform you in C maps an	ed a Duachita Parish. Id legal			
09/18 - Present	Retainer Contract No. 440001 hydrographic surveys on majo	2668 – Retaine or bridge structu	r Contract for Professional Surveying Services – Statewide (North Regionares in northern Louisiana for monitoring channel scour. Duties include a	n). Per supervis	forming sion of field			

	crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
10/17 - 06/18	Project Surveyor on L & A, Inc. Project No. 17E035.00, 17E036.00, 17E036.01 and 17E036.02, WOSD No. 5 Force Main Project from Lift
	Station "S-1" on Steep Bayou and LA 837 to the Ouachita River Flood Protection Levee performing alignment surveys and topographic
	surveys for a 18" sewer force main, a distance of 3.5± miles. Duties include supervising and scheduling of survey crews, analysis of survey
	data and development of survey field roll for use in project design.
06/18 - 09/18	State Project No. H.013776, Well Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews,
	analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.8-
	mile segment of Well Road from LA 838 to I-20 under the DOTD Urban Systems program.
08/18 - 11/18	State Project No. H.013798: Harrell Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey
	crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of
	a 1.8-mile segment of roadway from US 80 to LA 616 under the DOTD Urban Systems program.
12/18 - 02/19	State Project No. H.013802: Garrett Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey
	crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of
	a 0.4-mile segment of roadway from LA 15 to Austin Street under the DOTD Urban Systems program.
01/19 - 04/19	State Project No. H.013804: Wall Williams Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field
	survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of segments of mill,
	patch, and overlay and segments of reconstruction of a 1.6-mile segment of roadway from Good Hope Road to LA 143 under the DOTD
	Urban Systems program.
04/19 - 07/19	State Project No. H.014348: Lee Avenue, City of Monroe, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of
	field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch,
	and overlay of a 1.2-mile segment of roadway from Jackson Street to Standifer Avenue under the DOTD Urban Systems program.
07/19 - 09/19	State Project No. H.013796: Tanglewood Drive, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field
	survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of roadway
	reconstruction a 0.3-mile segment of roadway from LA 15 to Dellwood Drive under the DOTD Urban Systems program.
02/20 - 04/20	State Project No. H.014347: South Grand Street, City of Monroe, Ouachita Parish. Mr. Riggin was responsible for supervision and
	scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a
	mill, patch, and overlay of a 1.8-mile segment of roadway from Orange Street to Standifer Avenue under the DOTD Urban Systems
	program.

Page 2 of 2 Riggin, Ronald J., II, P.E., P.L.S.

Firm employed by Lazenby & Associates, Inc.							
Name	Sampognaro, Noah J., E.I.		Years of experience with this firm/employer	1.5			
Title	Engineer Intern		Years of experience with other firm(s)/employer(s)	0			
Degree(s) / Years	/ Specialization		B.S. / 2020 / Civil Engineering		(SP		
Active registration	n number / state / expiration date		E.I. 0034746 / Louisiana / 09/30/2023				
Year registered Discipline		Discipline	Civil Engineering (E.I.)				
Contract role(s) /	brief description of responsibilities	3	Road Design, Hydraulic Design & Analysis, Topographic Survey	/			
Experience dates (mm/yy– mm/yy)	Experience and qualifications re should cover the time specified i	elevant to the proposed of n the applicable MPR(s)	contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed i	intersection", etc.	Experience dates		
	 Mr. Sampognaro has 1 ½ years of experience in performing drainage design, hydraulic analysis, and development of roadway plans on both LDOTD and lo roadway projects. Mr. Sampognaro is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well AASHTO design standards for roadway design. Mr. Sampognaro has assisted in hydraulic analysis and design, as well as roadway design and preparation roadway plans, on a variety of roadway projects, and has also assisted in developing digital terrain models (DTM's) and existing drainage maps for LDO' topographic surveys. Mr. Sampognaro has successfully completed the following continuing education classes, workshops, and seminars: TOPO Dot User Conference, 2022 						
	One-Dimensional Modeling	of River Encroachments	with HEC-RAS Class, 2022				
08/21 - 11/21	North Frontage Road – Phase 2, Ouachita Parish. Mr. Sampognaro assisted in the development of roadway plans, including hydraulic design and analysis of cross drains and developing existing and design drainage maps. Mr. Sampognaro also assisted with quantity calculations and preparation of a construction cost estimate. This project, which was prepared for the City of Monroe I-20 Economic Development District, consists of a 0.6-mile frontage road on new alignment north of Interacted 20, east of Carrett Poad in Monroe I ouicinna.						
01/21 - Present	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Sampognaro has assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.						
01/21 – Present	Ouachita Parish Police Jury Road Program. Mr. Sampognaro has assisted with the Ouachita Parish Police Jury Road Program. His duties consist of developing pavement preservation roadway plans, including hydraulic design of cross drain structures, to preserve and extend the life of Ouachita Parish roadways, some which are constructed under the DOTD Urban Systems program.						
	Some of the Ouachita Parish Url	oan Systems projects on	which Mr. Sampognaro has assisted include the following:				
	State Project No. H.013805 – State Project No. H.014397 –	Finks Hide-A-Way Roa Rowland Road (Mill, Pa	d (Mill, Patch and Overlay and includes a segment of Reconstruction atch and Overlay)	on)			

06/21 - Present	City of Monroe, Louisiana roadways. Mr. Sampognaro has assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. His duties consist of developing pavement preservation roadway plans, including hydraulic design of cross drain structures.
	Some of the City of Monroe Urban Systems projects on which Mr. Sampognaro has assisted include the following:
	State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay) State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay)

Firm employed by Lazenby & Associates, Inc.								
Name Spillers	, James R., P.E.		Years of experience with this firm/employer 27					
Title Chief R	oadway Design Engineer		Years of experience with other firm(s)/employer(s) 0					
Degree(s) / Years	/ Specialization		B.S. / 1994 / Civil Engineering					
Active registration	number / state / expiration	late	P.E. 0028574 / Louisiana / 09/30/2023					
Year registered	1999	Discipline	Professional Engineer (Civil)					
Contract role(s) / b	prief description of responsib	oilities	Road Design, Hydraulic Analysis & Design					
Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the propo			the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc.					
	 Mr. Spillers has 27 years of experience in planning and designing highways, streets and bridges and related components on LDOTD pr He has also served as designer and Project Engineer on several federal-aid Urban System projects for the Ouachita Parish Police Jury ar of Monroe. He is familiar with the LDOTD Roadway Design Procedures and Details Manual and the LDOTD Hydraulics Manual, as y the AASHTO "Green Book", AASHTO Roadside Design Guide, and the Manual on Uniform Traffic Control Devices. Mr. Spillers has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2018 (refresher) LA Specific Traffic Control Supervisor Course, 2018 (refresher) Control Supervisor Course, 2018 (refresher) Control Modeling of River Encroachments with HEC-RAS, 2022 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 Bridge Backwater Computer Program (WSPRO), 1996 National Environmental Policy Act (NEPA) and Transportation Decision Making, 2008 Roundabout Design Workshop, Level 1, 2008 Roundabout Design Workshop, Level 1, 2009 Fundamentals of Planning, Design, & Approval of Interchange Improvements to the Interstate System, 2009 Highway Safety Manual Workshop, 2011 Access Management, Location and Design, 2014 Road Safety 365: A Safety Workshop for Local Governments, 2016 Mr. Spillers has in excess of 10 years of experience in preparation of roadway plans and development of roadway design projects. 							
04/05 02/00	On this project, Mr. Spille	rs meets the MPR	PR Requirement No. 3.					
04/93 - 03/00	assisted with preliminary a	and final roadway	ay and bridge plans for two voided slab span bridges and roadway approaches on new alignment.					
11/95 - 06/00	State Project No. 172-01-0	011: Bayou De C	e Glaise Bridge, Morehouse Parish. Mr. Spillers performed a bridge hydraulic study, and assisted					
	with preliminary and final	roadway and final	nal roadway and bridge plans for a slab span bridge and roadway approaches on new alignment.					
01/96 - 09/96	State Project No. 038-03-0	022: US 425 (Bas	Bastrop – Log Cabin), Morehouse Parish. Mr. Spillers performed hydraulic studies for multiple slab					
	span bridge sites, performe	d drainage design	gn of cross drains, and assisting with preliminary plan preparation as part of expanded line and grade					
	study for widening a 3.2-n	nile segment of US	US 425 to four lanes.					
04/96 - 12/96	State Project No. 038-03-	0024: US 425 (Lo	Log Cabin - Jct. LA 142), Morehouse Parish. Mr. Spillers performed a hydraulic study for twin					
	girder bridges, performed	drainage design f	n for cross drains, and assisted with preparation of preliminary plans as part of expanded line and					
	grade study for widening a	5.2-mile segment	ent of US 425 to four lanes.					

01/97 – 10/99	State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. La 913), Catahoula Parish. Mr. Spillers performed a hydraulic study for twin slab span bridges, performed drainage design for cross drains, and assisted with the preparation of preliminary and final roadway and bridge plans for widening a 4.5-mile segment of LA 15 to four lanes as part of TIMED program.
04/99 - 07/00	State Project No. 038-04-0008: Route LA 142 (Junction US 425 – North of DeButte Creek), Morehouse Parish. Mr. Spillers performed a hydraulic studies, and prepared preliminary roadway and bridge plans for reconstruction of a 3.5-mile segment of a rural two-lane roadway. Project included a slab span bridge and an RCB.
01/01 - 09/04	State Project No. 002-01-0041: DeSiard Street (Monroe)(Louisville Avenue – Gilbert Street), Ouachita Parish. Mr. Spillers performed a hydraulic study for subsurface drainage, and prepared preliminary and final roadway plans for widening a 1.2-mile segment of US 80 to five lanes.
07/05 - 01/08	State Project No. 015-08-0026: US 165 (LA 841 – Rilla), Ouachita Parish. Mr. Spillers performed a hydraulic study and prepared preliminary and final roadway plans for widening a 6.5-mile segment of US 165 to four lanes as part of TIMED program.
05/07 - 05/10	State Project No. 713-33-0110: Steve Ogden Road Bridge Over Bayou Macon, Madison Parish. Mr. Spillers performed a bridge hydraulic study and prepared preliminary and final roadway plans for a girder bridge on new alignment. This project was successfully constructed with no change orders.
12/07 - 05/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Spillers assisted with the hydraulic study of subsurface drainage systems and prepared preliminary and final roadway plans for widening a 3.2-mile segment of LA 616 to five lanes, including four multilane roundabouts. The project included one bridge site, where an existing timber bridge was replaced with a RCB.
02/11-05/17	State Project No. H.003854: Bossier North-South Corridor from Route I-220/Swan Lake Road Interchange to Crouch Road, Bossier Parish. Mr. Spillers performed hydraulic studies for two bridge sites, and prepared preliminary and final roadway plans on this project. The project consisted of the reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway.
03/14 - 09/16	State Project No. H.004608: Choudrant I-20 Service Road, Lincoln Parish. Mr. Spillers performed a bridge hydraulic study and also performed design of a subsurface drainage system, and prepared preliminary and final roadway plans for a 1.1-mile two-lane service road on new alignment.
02/18 – Present	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Spillers prepared preliminary roadway plans and is currently preparing final plans for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final plans for this project are currently 98% complete.
08/21 - 11/21	North Frontage Road – Phase 2, Ouachita Parish. Mr. Spillers was in responsible charge of the development of roadway plans for a 0.6-mile frontage road north of Interstate 20 in Monroe. The owner on this project is the I-20 Economic Development District.
12/16 - 07/17	State Project No. H.011743: 40 Oaks Farm Road, Ouachita Parish – Mr. Spillers performed hydraulic studies for cross drain replacement and replacement of an existing timber bridge with a RCB as part of a LDOTD Urban Systems pavement preservation project.

Page 2 of 2 Spillers, James R., P.E.

Firm em	Firm employed by: SIGMA CONSULTING GROUP, INC.						
Name	Name ALEX D. FARR, PE			Years of relevant experience with this employer	8	0	
Title	le Project Engineer				Years of relevant experience with other employer(s)	2	
Degree(s	s) / Years /	Specialization		B	S / 2011 / Civil Engineering		
Active re	egistration 1	number / state / expirati	on date	4	0426 / LA / 9-30-2022		
Year reg	gistered	2016	Discipline	C	livil		
Contract	role(s) / br	ief description of respo	nsibilities	R	Road Design / Maintenance of Traffic		
Experie (mm/yy	ence dates /-mm/yy)	Experience and qualificat Experience dates should	tions relevant to th	e prop cified i	osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s).	signed inte	ersection", etc.
20 20	019 018	Traffic Control Supe	ervisor (TCS) co Analysis Proces	urse ss and	l Report Course (Modules 1, 2 & 3)		
10/2020	0/2020 – Present 0/2020 – Present I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish Mr. Farr was responsible for developing the proposed vertical profile streets, entrance, and exit ramps. This included determining existi profile to meet the minimum vertical clearance per LA DOTD min corridor by using as-builts pertaining to their respective locations. N and bridge construction costs for the Project Opinion of Probable Co			at Baton Rouge Parish, LA (H.004100.5) <u>CMAR DELIVE</u> proposed vertical profiles along the I-10 mainline corridor uded determining existing vertical clearance along the co nce per LA DOTD minimum design guidelines. This wa respective locations. Mr. Farr was also responsible for o Opinion of Probable Costs for the I-10 Corridor Environm	EY , service r rridor and s perform calculating nental Ass	roads, surface adjusting the ned along this g the roadway sessment.	
02/17	- 06/20	I-10: Highland Rd to LA73 Design-Build Project, East Baton Rouge/Ascension Parishes. H.009250 D-B DELIVERY Mr. Farr was responsible for preparing the Transportation Management Plan (TMP) and Safety Analysis for this project. T safety analysis was prepared to determine what safety concerns related to the construction and maintenance of traffic phasing. Mr. Farr was also responsible for designing and preparing the suggested sequence of construction, guardrail design, and the quantity estimate for the above-mentioned project.				DELIVERY project. The f traffic uardrail	
04/19 -	- Present	I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA <u>D-B DELIVERY</u> Mr. Farr was responsible for performing the design of the interchange ramp profiles, super elevation calculations, and graphical grades. Mr. Farr was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimates.				s, and and the	
01/14	- 08/16	I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014) Mr. Farr was responsible for producing the Level 4 Transportation Management Plan (TMP) for the I-10 widening project from LA 347 to the Atchafalaya Floodway Bridge. The TMP pertained to alternate route analysis, public information, stakeholde involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr wa also responsible for the suggested sequence of construction, temporary signing, quantity computations and pay items using DOTD 2016 specifications.					

Alex Farr (continued)

Firm em	Firm employed by: SIGMA CONSULTING GROUP, INC.					
Name	ALEX D. FARR, PE		Years of relevant experience with this employer	8		
Title	Proje	ect Engineer	Years of relevant experience with other employer(s)	2		
2016 – Present I-10: LA 328 to LA 347, St. Martin Parish (Mr. Farr was responsible for producing the T to LA 347. The TMPs pertained to alternate r temporary traffic control, and work zone im sequence of construction, temporary sign permanent signing and roadway plan prepa includes partnering, contractor coordinate		I-10: LA 328 to LA 347, St. Martin Parish (I Mr. Farr was responsible for producing the Tr to LA 347. The TMPs pertained to alternate ro temporary traffic control, and work zone im sequence of construction, temporary signi permanent signing and roadway plan prepar- includes partnering, contractor coordinate	H.010601) ransportation Management Plan (TMP) for the I-10 widen oute analysis, public information, stakeholder involvement pact management strategies. Mr. Farr was also respon- ng, quantity computations and pay items using DOT ation. He is currently providing construction support ion and plan changes.	ing project from LA 328 t, traffic and safety data, sible for the suggested D 2017 specifications, t for the project which		
2014 – Present I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003) Mr. Farr was responsible for producing the Level 4 Transportation Management Plan (TMP) for the I-10 widening p I-49 to the LA 328. The TMPs pertained to alternate route analysis, public information, stakeholder involvement, safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr was also respons suggested sequence of construction design, temporary signing design, quantity/pay item computations, and roa preparation.			0 widening project from involvement, traffic and also responsible for the ons, and roadway plan			
2016 – 2018 I-10: LA 30 to LA 22, Ascension Parish, LA (H.009276) Mr. Farr was responsible for performing the Transportation Management Plan (TMP) as well as the Safety Analysis for project to determine what safety concerns correlated to the construction of this segment. Mr. Farr was also responsible for suggested sequence of construction design, diversion road design, guardrail design, and the quantity estimate.				Safety Analysis for this also responsible for the estimate.		

Firm employed by: SIGMA CONSULTING GROUP, INC.							
Name	BR	BRYAN K. HARMON, PE			Years of relevant experience with this employer	6.5	
Title	Vice	-President / Special	Projects Engin	eer	Years of relevant experience with other employer(s)	33	
Degree(s	s) / Years /	Specialization		B	8S / 1981 / Agricultural Engineering 8S / 1982 / Civil Engineering		M.
Active re	egistration	number / state / expirati	on date	2	2595 / LA / 3-31-2023		
Year reg	istered	1987/19 <mark>94</mark>	Discipline	C	civil / Environmental		
Contract	role(s) / b	rief description of respo	nsibilities	Н	lydraulics / Road Design		
Experie (mm/yy	ence dates v–mm/yy)	Experience and qualificat Experience dates should	tions relevant to the cover the time spec	e prop cified i	osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s).	signed inter	section", etc.
20 20	008 010	NEPA and Transpor Principles of Writing	tation Decision J Hwy Construct	Makin tion S	ng Seminar pecifications		
10/20 -	Present	I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5) <u>CMAR DELIVERY</u> Mr. Harmon is the lead hydraulics design engineer for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. He is responsible for developing the existing and design drainage maps, hydraulic calculations, and drainage outfall assessments. Drainage is being designed for both final conditions and interim construction phases consistent with limits defined for each GMP. In addition, he is coordinating with the CMAR contractor, DOTD, an East Baton Rouge DTD to orchestrate future improvements to Dawson's creek at the Acadian Thruway underpass at KCS RI					urface street ps, hydraulic construction , DOTD, and s at KCS RR
2016	- 2020	I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250) <u>D-B DELIVERY</u> Mr. Harmon served as the project Design & Construction Liaison and lead drainage engineer for the project. He was responsible for coordinating design and construction efforts for the D-B team to ensure a cost effective and efficient delivery process. His drainage design responsibilities included open ditch and subsurface drainage systems, box culvert and cross drain extension design, and flood elevation assessments to ensure that project features did not negatively affect base flood elevations along the 6.7 mile project corridor.					DELIVERY was ent delivery and cross base flood
10/18	- 03/20	I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA <u>D-B DELIVERY</u> Mr. Harmon served as a drainage design engineer and was responsible for the evaluation and design of both the existing and proposed drainage systems for this new 4-lane rural arterial and roadway and urban freeway interchange. In addition to the standard DOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of thier 2-D Unsteadey Flow Hec Ras Model for this region. Due to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.					existing and didition to the on of impacts outhern limits n Red Chute the Bossier region. Due pass utilizing

Bryan Harmon (continued)

Firm em	Firm employed by: SIGMA CONSULTING GROUP, INC.						
Name	BRY	an K. Harmon, PE	Years of relevant experience with this employer	6.5			
Title	Vice-	President / Special Projects Engineer	Years of relevant experience with other employer(s)	33			
04/18 – Present		Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791) PPP DELIVERY Sigma is providing the drainage design for this major highway improvement that is being designed and constructed under this alternative delivery method. Mr. Harmon is serving as the lead drainage engineer and is responsible for the coordination and proper consideration of the impacts that the large multi-jurisdictional pumped drainage outfall systems have on the project drainage system performance. Project drainage considerations include bridge deck scupper design conforming to FHWA HEC-21 requirements, and standard storm drainage piping and inlet design for associated local roadway improvements. The drainage system design must account for the final full build conditions but must also function during the various construction sequences with the addition of temporary systems.					
09/20 - Present		Owner Verification Services - College Drive Flyover Ramp I-10/I-12 West, East Baton Rouge Parish (H.013897) D-B DELIVERY project. Mr. Harmon is responsible for technical design and constructability reviews for definitive design and roadway hydraulic design units: Reviews include technical comments, design review meetings with the design consultant, builder, and DOTD, and concurrence reviews of D-B team responses.					
01/22 – Present		Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017) Mr. Harmon is the lead hydraulics engineer for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. His responsibilities include development of the existing and design drainage maps, cross drain design, storm drain system design, open ditch design, and evaluation of impacts for open ditch vs storm drain system alternatives along the project corridor.					
		 Prior to joining Sigma, Mr. Harmon spent the previous year serving as the Interim Director of the Department of Public Works for the City of Baton Rouge and Parish of East Baton. Prior to his tenure as the Director, he served 9.5 years as the DPW Deputy Director/Chief Engineer and 15 years as the Assistant Chief and Drainage Engineer. As Deputy Director/Chie Engineer, one of his primary responsibilities included the over sight of all engineering functions and project construction fo the Department. Specific duties included the administration of flood plain and storm water regulations, right of way acquisitions, standard plans and specifications, engineering studies and plan development, cost estimates, funding pursuits bid phase services, and construction administration for several types of municipal infrastructure projects throughout East Baton Rouge Parish. As an owner's representative for EBR parish, he coordinated with contractors for construction projects, participated in project partnering, performed design and constructability reviews, evaluated value engineering proposals, and prepared independen cost estimates for project. 					

Firm employed by: SIGMA CONSULTING GROUP, INC.							
Name	Roe	ERT LEAR, JR., PE, LSI			Years of relevant experience with this employer	23	0
Title	Vice	-President / Sr. Proj	ect Manager		Years of relevant experience with other employer(s)	3	U
Degree(s	s) / Years /	Specialization		B	S / 1996 / Civil Engineering		
Active re	egistration	number / state / expirati	ion date	P	E.0029394 / LA / 3-31-2023 & SI.0000508 / LA / 9-30-2023		
Year reg	istered	2001 / 2005	Discipline	C	ivil / Land Surveyor Intern		
Contract	role(s) / b	rief description of respo	onsibilities	P	roject Manager / Road Design		
Experie (mm/yy	ence dates /-mm/yy)	Experience and qualifica Experience dates should	tions relevant to th cover the time spe	e prop cified i	osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s).	signed inters	section", etc.
20 20	2005 NEPA and Transportation Decision Making Seminar 2021 ATSSA Traffic Control Supervisor Certification #337850 (TCT/TCS)						
10/2020	– Present	I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5) <u>CMAR DELIVERY</u> Mr. Lear is a road design engineer for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include road and drainage design, complex interchange geometric design, maintenance of traffic / sequencing plans, road plan preparation, coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, project phasing for GMP limit determination, proposed right of way and control-of-access limit determination and utility coordination.					
10/16	- 06/20	I-10: Highland Rd to LA73 Design-Build Project, East Baton Rouge/Ascension Parishes. H.009250 D-B DELIVERY Mr. Lear was the Roadway Design Engineer for this LaDOTD Design Build Project. The project included widening I-10 for 6.6 miles to 3-lanes in each direction from the Highland Road Interchange to the LA73 Interchange. The I-10 bridges over Highland Road and approaching roadway are being replaced with a new structure and profile grade. Adjustments to the ramp gore areas were required to accommodate the new profile. A 54" median barrier is included for 3.6 miles, with additional detail required for superelevated curves through flat profile grades to ensure adequate drainage. Also, design considerations were necessary to minimize tree clearing through the 3-mile wooded median section of the freeway. A double exit with 2 dedicated exit lanes was design at the I-10 EB exit at Highland Road and a double exit with 1 dedicated exit lane and 1 shared exit lane was designed at the I-10 EB exit at LA73. Existing ramp acceleration and deceleration lanes were lengthened to address traffic gueing problems at Highland Road. Mr. Lear was responsible for all read design components of the project					
01/14	- 07/16	LA342: Roundabout Mr. Lear served as th He was responsible pavement markings, I and SUE efforts. Util requirements and nee	t @ LA 724, Lafa ne project manag for the horizonta permanent signin ity locates includ eds.	er and al and g, qua ed QL	Parish, LA (H.002163) road design engineer for a 4-legged single lane roundab vertical geometric design, typical sections, suggested s ntities and opinion of probable costs for this project. He als -D and QL-C locates. Mr. Lear coordinated with District	out in Lafay equencing, so supervise 03 for utili	/ette Parish. , permanent ed all survey ty relocation

Robert Lear, Jr. (continued)

Firm em	Firm employed by: SIGMA CONSULTING GROUP, INC.							
Name	Rob	ert Lear, Jr., PE, LSI	Years of relevant experience with this employer	23				
Title	Vice-	President / Sr. Project Manager	Years of relevant experience with other employer(s)	3				
04/19 –	- Present	I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA <u>D-B DELIVERY</u> The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new 4-lane rural arterial roadway. Mr. Lear is the Roadway Design Engineer for this LaDOTD Design-Build Project. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, drainage design including cross drains, storm drains, side drains, roadside ditches, existing and design drainage maps, clearing and grubbing plans, and construction support. Mr. Lear also was responsible for QA/QC reviews and/or independent reviews of the Stormwater Pollution Prevention Plan, Interchange Modification Report re-evaluation, traffic control plans, signing and striping plans, and transportation management plan. He also participated in partnering and coordination with the contractor throughout the RFQ, RFP, design and construction phases of the project. As key personnel for the DB process, he						
participated in all of the required pre-construction project meetings as well as design-build team constructability reviewI-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)I-10: LA 328 to LA 347, St. Martin Parish (H.003014)I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)Mr. Lear was the project manager and lead roadway engineer for replacing and upgrading 16.6 miles of I-10 and inter safety improvements from Lafayette to near Henderson, LA, including and a new overpass on Melvin Dupuis Rd ov He was responsible for all roadway design components of the project including typical sections, plan profiles, geometric sequencing, level 4 TMP, and cross sections. The project scope also included two roundabouts at the ramp termini poi intersection improvements to LA352/LA347 based on traffic data and access management. Mr. Lear was the road engineer for these one-lane roundabouts and intersection improvements and attended public meetings for environmental clearance. Mr. Lear also coordinated the roadway lighting and utility conflicts with subconsultants, and design with DOTD Bridge section, and assembled the multi-discipline construction plan set. He is currently pro- construction support for the project which includes partnering, value engineering proposal reviews ar								
12/03	- 01/12	Sullivan Road Improvements, East Baton Mr. Lear was the project manager for the de included designing all horizontal and vertica pavement markings, cross sections, traffic computations and cost estimating.	Rouge Parish, LA (255-30-0012) esign of a 4-lane / 5-lane suburban roadway in Central, al geometrics, geometric details, joint layouts and graph control, determining right of way limits, right of way ma	LA. His responsibilities ical grades, permanent ap preparation, quantity				

Firm employed by: SIGMA CONSULTING GROUP, INC.								
Name	Jos	H K. RENARD, PE			Years of relevant experience with this employer	16		
Title	Proje	ect Manager			Years of relevant experience with other employer(s)	0	J.	
Degree(s	s) / Years /	Specialization		B	S / 2006 / Civil Engineering			
Active re	egistration	number / state / expirati	on date	Р	E.0036015/ LA/ 3/31/2023			
Year reg	gistered	2010	Discipline	C	ivil			
Contract	role(s) / br	rief description of respo	nsibilities	R	oad Design / Utility Coordination			
Experience dates (mm/yy-mm/yy) Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection" Experience dates should cover the time specified in the applicable MPR(s).						section", etc.		
20	021	Traffic Control Supe	rvisor (TCS) co	urse				
I-10: Highland Rd to LA73 Design-Bui10/16 - 06/20Mr. Renard served as the utility coordina information from utility owners to ensure efforts to have telecommunications, wat performed to ensure a successful no-co		uild P inator f ire that ater, a conflict	roject, East Baton Rouge/Ascension Parishes. H.0092 for this interstate design build project. He communicated v the road was designed with minimal utility conflicts. Mr. F nd gas lines marked in the field and then led efforts to hav design.	250 <u>D-B D</u> vith and gat Renard coor ve Level A t	ELIVERY thered rdinated test holes			
08/19	- 10/19	I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA <u>D-B DELIVERY</u> This project will extend I-220 south at the I-220/I20 interchange with new roadway and bridges connecting and creating access to the Barksdale Air Force Base. Mr. Renard was responsible for all Subsurface Utility Engineering for this project, including utility conflict matrix development, utility coordination, utility relocation. Level D through A locates and test holes						
04/18 -	- Present	Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791) PPP DELIVERY Mr. Renard served as the drainage design Quality Control checker for this road design project. His efforts ensure that the project's drainage meets the requirements of the owner, parish and project specifications. This included technical checking for the existing and design drainage maps, HydroWIN calculation checks, drainage plan profile checking, and hydraulic computation book checking						
10/2020	– Present	сотриtation book спескіпд. I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5) <u>CMAR DELIVERY</u> Mr. Renard is a roadway and utility engineer for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. He prepared a utility conflict matrix for the project and designed a utility duct bank to expedite utility relocations with minimal construction conflicts. The duct bank design was an independent GMP for CMAR delivery. He is also designing drainage and roadway plans for surface streets between Washington Street and Acadian Blvd.						

Firm employed by: SIGMA CONSULTING GROUP, INC.							
Name	GRI	egory P. Sepeda, PE			Years of relevant experience with this employer	24	
Title	Vice	President / Chief Er	ngineer		Years of relevant experience with other employer(s)	5	
Degree(s	s) / Years /	Specialization		B	S / 1990 / Civil Engineering IS / 2002 / Civil Engineering - Structural		1 A
Active re	egistration	number / state / expirati	ion date	2	6669 / LA / 9-30-2022		
Year reg	gistered	1996	Discipline	C	ivil		
Contract	role(s) / b	rief description of respo	nsibilities	P	roject Manager / Road Design / QC		
Experie (mm/yy	ence dates /-mm/yy)	Experience and qualifica Experience dates should	tions relevant to th cover the time spe	e propo cified i	osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s).	signed inters	section", etc.
20 20 20	012 016 018	NEPA and Transportation Decision Making Seminar Maintenance and Rehabilitation of Historic Bridges Course Traffic Control Supervisor (TCS) course					
07/12	- 10/18	Is a served as project manager and lead bridge engineer for the widening of a 5 mile segment of I-10. He was responsible for the overall project management and coordination with the subconsultant team, road bridge design, and plan production. Sigma is also responsible for the design of a concrete slab span bridge, and the deck design of four girder-supported bridge structures. Under a contract supplement, Mr. Sepeda lead the design for a replacement of the LA 941 structure over the mainline interstate. LA 941 is a rural 2-lane roadway.					
08/12 -	- Present	Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017) Mr. Sepeda is the project manager for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. The project began with an Environmental Assessment (E.A.) and NEPA environmental documentation. Mr. Sepeda worked with all technical team members and successfully obtained a FONSI. As the project continues into plan development, Mr. Sepeda is coordinating the topographic survey to identify major topography and existing utilities, as well as developing geometry consistent with MOVEBR and DOTD guidelines. With the route being a state highway, coordinating with LA DOTD is a necessity. Sigma is facilitating the development of a traffic study with a subconsultant, following criteria established by LA DOTD. Multiple roadway sections and intersection arrangements are being evaluated through a tiered approached.					
12/14	- 04/19	 S. Acadian Thruway (Perkins Rd - LA 73), East Baton Rouge Parish, LA (H.011261) Mr. Sepeda is the project manager for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Mr. Sepeda is responsible for all project management, coordinating the design effort and quality control. 					

Gregory Sepeda (continued)

Firm em	Firm employed by: SIGMA CONSULTING GROUP, INC.							
Name	GRE	gory P. S epeda, PE	Years of relevant experience with this employer	24				
Title	Vice	President / Chief Engineer	Years of relevant experience with other employer(s)	5				
10/16	- 06/20	-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250) <u>D-B DELIVERY</u> Mr. Sepeda served as the project Design Quality Manager (DQM) for all design efforts on the project. Mr. Sepeda developed a project specific Design Quality Plan as well as QA processes to ensure that the design activities comply with the Contract equirements. As a component of the QA process, he also performed design assessment reviews of every submittal to review or general compliance with the requirements of the Contract, taking into consideration the proposed method of construction, and covered areas such as: design criteria; codes and standards; constructability; and fatigue and durability performance. For critical structural members, Mr. Sepeda also performed an independent analytical design check using separate calculations o verify the structural adequacy and integrity of the members. This analytical check included the following: structural geometry R modeling: material and member properties: loads: and structural boundary conditions						
06/13 - Present		I-10: East Jct. I-49 to Atchafalaya Floodway Bridge, Lafayette & St. Martin Parishes (H.003003/H.010601/H.003014) Mr. Sepeda oversaw the development of all sequencing and the Level 4 Transportation Management Plan (TMP) for the I-10 widening project from I-49 to the Atchafalaya Floodway Bridge. This roadway improvement is split into three segments requiring three separate TMPs. The first 2 segments also required an Initial Financial Plan to be developed. Mr. Sepeda drafted this plan which included cost estimates, scheduling, and identifying risk.						
04/12 – 12/12		Jones Creek Road Improvements, East Baton Rouge Parish, LA (H.007137) Mr. Sepeda was responsible for the quality control / quality assurance for the design of a 5-lane urban roadway from Tige Bend Road to George O'Neal Road. With a special focus on the drainage, utility conflict points, and maintenance of traffi impacts, he helped produce a final deliverable with minimal disruptions to the local residents. He specially coordinated the design and placement of a large 36" sanitary sewer force main with the proposed roadway construction. Mr. Sepeda also prepared the safety performance computations per the Predictive Method of the Highway Safety Manual.						
09/13	- 10/15	US 171: J-Turns @ N. Perkins Ferry Road, Calcasieu Parishes (H.010197) Mr. Sepeda was the project manager for the design of J-Turns and turn lanes at a 3-leg intersection north of Lake Charles, LA. He is responsible for the road design, drainage design, and plan production. All work for this project is being performed using CADConform and LA DOTD electronic plan delivery requirements.						

Firm employed by: SIGMA CONSULTING GROUP, INC.								
Name	Def	EK S. WHEAT, PLS			Years of relevant experience with this employer	7	0	
Title	Lan	d Surveyor			Years of relevant experience with other employer(s)	4		
Degree(s	s) / Years /	Specialization		В	S / 2009 / Industrial Technology			
Active re	egistration	number / state / expirati	on date	5	213 / LA / 9-30-2023			
Year reg	istered	2019	Discipline	S	urvey			
Contract	role(s) / b	rief description of respo	nsibilities	Ρ	roject Surveyor			
Experie (mm/yy	ence dates z–mm/yy)	Experience and qualificat Experience dates should	tions relevant to th cover the time spe	e propo cified i	osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "d n the applicable MPR(s).	esigned in	tersection", etc.	
20	019	Traffic Control Supe	rvisor (TCS) co	urse				
2019-2020 DOTD surveying standards and CadConform			opographic surv ulevard with sub rterial roadway. survey, robotic to dards and CadC	eying a surface He wa al stat onforn	and engineering design for the upgrade of the existing 2- e drainage. Mr. Wheat is the surveyor of record for the to as responsible for performing and managing the GPS co ion survey, and scanning of the project corridor. The surv n deliverables.	lane roac pograph ontrol, dig ⁄ey was c	Iway with open ic survey of the lital leveling for onducted using	
20	020	Jones Creek Road / Airline Hwy, East Baton Rouge Parish Mr. Wheat served as the Professional Land Surveyor and topographic survey manager of this proposed road extension through a wooded tract of land. All improvements at the proposed intersection locations within the Airline Highway and Jefferson Highway right-of-way were located including all drainage, utilities, and pavement limits. Mr. Wheat oversaw the collection of data via conventional, GPS, and scanning surveying methods. Mr. Wheat coordinated with utility owners in the area to ensure all known facilities were marked and surveyed. Mr. Wheat's deliverables to the client and MOVEBR Program Managers consisted of plan and profile sheets, topographic and utility CAD drawings, list of utility owners with contact information, and a Digital Terrain Model						
2015	Digital Terrain Model. I-10: LA 328 to LA 347, St. Martin Parish (H.010601) Mr. Wheat served as a party chief for topographic surveying of existing features and utilities for pavement replacement of 6 miles of I-10 between Breaux Bridge and Henderson, LA. He was responsible for data collection, utility coordination with t SUE subconsultant, data processing and mapping. The survey was performed using DOTD codes and linework automatic Mr. Wheat also coordinated with utility companies for QL-C and QL-B locates for utilities along Melvin Dupuis Road, which being removed and replaced with a structure over the interstate. Mr. Wheat also performed the supplemental topograph surveying along Melvin Dupuis Rd.						acement of 6.8 nation with the rk automation. Road, which is al topographic	

Firm employed by: SIGMA CONSULTING GROUP, INC.						
Name	DER	EK S. WHEAT, PLS	Years of relevant experience with this employer	7		
Title	Land	Surveyor	Years of relevant experience with other employer(s)	4		
2013-2019 I-10: LA 347 to Atchafalaya Floodway Brid Mr. Wheat served as a party chief for topogra miles of I-10 near Henderson, LA. He was data processing and mapping. He also per survey was performed using DOTD codes a			Ige, St. Martin Parish (H.003014) Iphic surveying of existing features and utilities for paven responsible for data collection, utility coordination with t formed the topographic survey along LA347 and the LA and linework automation.	nent replacement of 2.7 he SUE subconsultant, \352 outfall canal. The		
2018		Town of Dubach Sidewalks, Lincoln Paris Mr. Wheat served as a party chief for topogra The survey included supplemental topograp features. The survey was performed using D control.	h (H.011772) raphic surveying and SUE designations along 3 streets oby for utility, building lines, awnings, drainage feature OTD codes and linework automation. He also was resp	in the Town of Dubach. es, sidewalks and misc. oonsible for on-site traffic		
2017-2018		LA 675 & LA 87 Improvements New Iberia Mr. Wheat served as the QL-B designating a New Iberia, LA H.011781. The project inclus 38-02 for underground utilities owned by 9 c multiple utilities in the roadway and under s scanning methods, and 40 QL-A test holes w CI/ASCE Standard 38-02 and DOTD standard sheets, SUE plan preparation, coordinating w	, LA (H.011781) and QL-A locates party chief subsurface utility engineeri ded Quality Level A, B, C and D locates in accordance companies. The 0.8 mile urban roadway included cons idewalks. Quality Level B locates were conducted usin were performed by Sigma. Final SUE plans were prepa ds. He was responsible for QL-B locates, shot count she with utility companies, unknown line research and traffic	ng on S. Hopkins Rd in with CI/ASCE Standard tricted right of way with ng multiple geophysical ared in accordance with eets, QL-A test hole data control for the project.		
2015-2016		Jacock Road Bridge Replacement, West F The project involved topographic surveying at Bridge at Barrow Fork Creek. The work inclu- and preparation of construction plans. Mr. W road, and bridge structure.	Feliciana Parish (15-HMP-PW-01) nd engineering design for the replacement of the existing uded topographic surveying, drainage design, geometric heat set the project control and also collected the topogr	bridge on Jacock Road c design, bridge design, aphic data of the creek,		

Firm employed by: SIGMA CONSULTING GROUP, INC.							
Name	Mile	MILES B. WILLIAMS, PE			Years of relevant experience with this employer	32	
Title	Pres	ident / Principal-in-Charge			Years of relevant experience with other employer(s)	8	
Degree(s	s) / Years /	Specialization		E	S / 1983 / Civil Engineering		
Active re	egistration	number / state / expirati	on date	2	3094 / LA / 3-31-2024		
Year reg	istered	1988	Discipline	C	livil		
Contract	role(s) / br	ief description of respo	nsibilities	P	Principal-in-Charge / design reviews		
Experie (mm/yy	ence dates z–mm/yy)	Experience and qualificate Experience dates should	tions relevant to th cover the time spe	e prop cified i	osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "den the applicable MPR(s).	esigned inter	rsection", etc.
20 1988 -	004 Present	NEPA and Transpor 34+ Years responsit	tation Decision ble charge for de	Makir esigni	ng Seminar ng DOTD roadway projects		
10/20 – Present 10/20 – Presen		n Lane, West ar bad Design Lead h Metro Baton I naintenance of ws, value engin v and control-of-a	nd Eas Profes Rouge traffic eering ccess	St Baton Rouge Parish, LA (H.004100.5) <u>CMAR DELIVE</u> Sissional for the replacement of I-10, interchange improvem . His responsibilities include road and drainage design / sequencing plans, coordinating with the CMAR of assessments, cost estimating, project phasing for GM limit determination, utility coordination, and public involve	ERY ents, and s on, complex contractor, MP limit do ment.	urface street interchange design and etermination,	
2016	3-2020	I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250) D-B DELIVERY Mr. Williams served as the Project Design Manager for all design efforts for this urban freeway design-build project. He was responsible for leading and coordinating all disciplines: road design; bridge design; lighting; geotechnical investigation; and traffic control. He also is the responsible engineer for geometric design, roadway construction and traffic control plans. The project included coordinating with the D-B contractor and DOTD, partnering, design and constructability reviews, and cost estimating					
04/18 –	04/18 – Present Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Pari LA (H.004791) PPP DELIVERY 04/18 – Present Sigma is a design subconsultant providing drainage design for this alternative delivery project. Mr. Williams is serving a project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionai and LADOTD. He is also assisting in the design of the drainage system for the roadways throughout the project includir storm sewer design, drainage plans preparation and generation of guantities.						serving as cessionaire ct including
storm sewer design, drainage plans preparation and generation of quantities. Sullivan Road Improvements, East Baton Rouge Parish, LA. Mr. Williams was the principal in charge for the design of a 4-lane / 5-lane suburban roadway in Central, LA. Miles also s as a project engineer for the design study and roadway design, with an emphasis on Construction Sequencing and T Control.						s also serves g and Traffic	

Miles Williams (continued)

Firm em	Firm employed by: SIGMA CONSULTING GROUP, INC.						
Name	MILE	S B. WILLIAMS, PE	Years of relevant experience with this employer	32			
Title	Presi	dent / Principal-in-Charge	Years of relevant experience with other employer(s)	8			
09/20 - Present Owner Verification Services - C <u>D-B DELIVERY</u> Sigma is a techr project. Mr. Williams is responsi design units: clearing and grubbir technical comments, design revie team responses.		Owner Verification Services - College Driv D-B DELIVERY Sigma is a technical subcomproject. Mr. Williams is responsible for tech design units: clearing and grubbing, roadway technical comments, design review meetings team responses.	Ve Flyover Ramp I-10/I-12 West, East Baton Rouge Pa insultant for owner verification services for this urban free inical design and constructability reviews for definitive d or design, hydraulics/drainage design, and maintenance of s with the design consultant, builder, and DOTD, and conc	rish (H.013897) way alternative delivery esign and the following traffic. Reviews include currence reviews of D-B			
03/13 – 10/20		I-10: LA 347 to Atchafalaya Floodway Brid Mr. Williams was the principal in charge for the of the two lanes eastbound for 2.7 miles of the plan preparation for all roadway design co sequencing, level 4 TMP, and cross sections intersection improvements to LA352/LA347 engineering proposal reviews, and plan char	Ige, St. Martin Parish (H.003014) he roadway design for the three laning of the westbound I-10 and intersection safety improvements near Henders mponents of the project including typical sections, plan pro . The project scope also included two roundabouts at the . Sigma also provided construction support which includes.	lanes and rehabilitation on, LA. He supervised ofiles, geometric details, ramp termini points and uded partnering, value			
03/13	- 09/20	I-10: East Jct. I-49 to LA 328, Lafayette & S Mr. Williams was the principal in charge for supervised the preparation of the urban free geometric details, sequencing and cross s superelevation, bridge replacement and wide which included partnering, value engineering	St. Martin Parishes (H.003003) the roadway design for the six laning of 6.7 miles of I-1 eway design components of the project including typical sections. The project included median barrier divided ening, and local road pier protection. Sigma also provide proposal reviews, and plan changes.	0 in Lafayette, LA. He sections, plan profiles, d urban interstate with ed construction support			
Firm employed by	Vectura Consulting Se	rvices, LLC					
--------------------------------------	--	---	--	---	--	--	
Name Sheelagh Brin Ferlito, PE, PTOE				Years of experience with this firm/employer	6		
Title Principal	tle Principal			Years of experience with other firm(s)/employer(s)	27		
Degree(s) / Years /	Specialization		B.S. /	/ 1988/ Civil Engineering			
Active registration	number / state / expiratio	on date	PE.00	025383 / LA 9/30/2023			
Year registered	1993	Discipline	Civil				
Contract role(s) / br	ief description of respon	sibilities	Traff	ic Signal Design and CE&I Supervisor / QC for TMP			
Experience dates	Experience and qual	ifications rele	vant t	to the proposed contract; i.e., "designed drainage", "designe	d girders",		
(mm/yy–mm/yy)	"designed intersection	n", etc. Exper	rience	dates should cover the time specified in the applicable MPR(s	s).		
07/21 - Current	H.007160 - EBR Comp	uterized Traffic	: Signa	I, Phase VB (Baton Rouge, Louisiana) Brin is the task leaders for Ve	ctura for the		
	Construction Engineering	ng and Inspectio	on of 24	traffic signals. Brin oversaw the review of signal mast arm shop drawing	s to assist the		
	City-Parish of Baton Ro	uge in accepting	the m	anufactured poles. Brin and Reece, with the DOTD, City-Parish and th	e Contractor		
07/10	conducted field visits to c	confirm pole four	ndation	locations.			
0//19 - current	H.004/91 DOTD Belle C	signal plans for t	the inte	er Replacement PPP (Belle Chasse, LA) Brin is the project manager for the	traffic signal		
	plans on design year vol	umes that were o	levelor	bed using growth rates from the New Orleans Regional Planning Comm	ission Travel		
	Demand Model. This proj	ject is the first eve	er Publi	ic-Private-Partnership performed by Louisiana DOTD. She coordinated the	e detour plans		
	based on the sequence of	construction as p	oart of t	the Level 2 Transportation Management Plan (TMP).	1		
09/20 - 12/21	H.010960.5 LA 30 Rour	ndabouts at Tan	ger I-1	10 (Ascension Parish) Brin is the project manager for the design of temp	porary traffic		
	signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing						
	three existing signalized	intersections with	n multil	lane roundabouts along LA 30 at I-10 Interchange ramps and at the Tange	r Boulevard.		
	Vectura also developed si	ignal timing pla	ns for e	each phase of the construction to maintain progression along LA 30.	Janagamant		
02/20 - 11/21	H.U10010 DU1D 1:20 LA 544 Overpass Replacement (Ruston, LA) Brin is the project manager for the Transportation Management Plan (TMP) as part of a design for a bridge replacement and three roundebouts in Puston I.A. The TMP was a Level 2 and included						
	evaluation of 10 Sequence	ce of Construction	n Phase	es. Detours included rerouting traffic to other interchanges at nighttime or	ilv. rerouting		
	traffic from I-20 to the o	off ramp and on 1	ramp a	t nighttime only, and rerouting traffic to service roads in vicinity of the	project. Brin		
	coordinated the queue an	alysis with DOT	D to de	etermine when lane closures would be allowed utilizing 24-hour tube cou	ints. She will		
	also coordinate the develo	opment of tempor	rary tra	ffic signal plans for this project as well.			
07/18 - 04/19	LA 1 Pedestrian Crossw	valk Study and	Fraffic	/ Pedestrian Signal Design West Baton Rouge Parish, Addis, LA Brin	developed a		
	Pedestrian Crosswalk Stu	idy and Traffic S	ignal (Construction Plans for the intersection of LA 1 at LA 990 in Addis, LA. I	he study was		
	The study included traffi	ic and pedestrian	traffic	data collection a speed study, crash analyses intersection analyses and	equirements.		
	analyses. The signal plan	s included pedest	trian sig	gnal equipment, signal timing parameter calculations, crosswalk striping, s	signs, DOTD		
	pay items, estimated quar	ntities, and constr	uction	cost. Brin also assisted with the Parish with the DOTD Permit Request for	r Intersection		
	Control Devices on a Stat	te Right of Way.					
09/17-04/18	US 11 at US 190 Bus. (F	Fremaux Ave.) P	edestri	an Crosswalk Study and Traffic / Pedestrian Signal Equipment Desig	n Slidell, LA		
	Brin developed a formal	traffic study for	a prop	osed crosswalk with pedestrian traffic signal equipment and pedestria	in clearance		
	timings based on DOTD	requirements. Br	in assis	sted with vehicle and pedestrian data collection, analyzed 3-year intersection	on crash data		
	and developed signal time	ing for pedestriar	18 to cr 1 altern	oss the street. From the design study, a set of Frattic Signal Modification	n Plans were		
09/17-04/18	US 11 at US 190 Bus. (F Brin developed a formal timings based on DOTD and developed signal time developed to implement t	remaux Ave.) Pe traffic study for requirements. Br ing for pedestriar the recommended	edestri a prop rin assis ns to cr l altern	an Crosswalk Study and Traffic / Pedestrian Signal Equipment Design bosed crosswalk with pedestrian traffic signal equipment and pedestrian sted with vehicle and pedestrian data collection, analyzed 3-year intersection oss the street. From the design study, a set of Traffic Signal Modification ative.	n Slidell, LA in clearance on crash data n Plans were		

04/14 - 12/14	H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA) As the project engineer, Brin designed three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment due to lane shifts during construction.
07/12-03/14	EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA) Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM/EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA) Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
09/13 - 04/14	S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA) Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans and specifications.
03/05 - 11/05	Airline Hwy Widening SPN 700-99-0322 (Baton Rouge, LA) Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.
02/03 - 01/04	EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172 (Baton Rouge, LA) Brin was the project engineer for the design of 66 signalized intersections on eight arterials in Baton Rouge which included traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

Firm employed by	Vectura Consulting Services, LLC			
Name Laurence Lucius Lambert, II, PE, PTOE, PTP			Years of experience with this firm/employer	6
Title Superviso)r		Years of experience with other firm(s)/employer(s)	18
Degree(s) / Years /	Specialization	B.S./	1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.E	3.A./2010
Active registration	number / state / expiration date	PE.0	029901 / LA / 3/31/2024	
Year registered	2001 Discipline	Civil		
Contract role(s) / bi	rief description of responsibilities	TMP	Supervisor / Traffic Signal Design QC	
Experience dates	Experience and qualifications rele	evant 1	to the proposed contract; <i>i.e.</i> , "designed drainage", "designe	d girders".
(mm/yy–mm/yy)	"designed intersection", etc. Expe	rience	dates should cover the time specified in the applicable MPR(s).
06/21 - 02/22	H.013267 Capital Area Pathways Proj	ject (B	aton Rouge, LA) Laurence was project manager for a traffic study to	evaluate trail
	crossings at three state routes that require	d DOT	D approval. The traffic study included traffic data collection, safety anal	ysis, existing
	conditions analysis and alternative analys	sis. Lau	rence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA	guidance to
00/01 00/01	develop the most effective trail crossing a	lternati		
02/21 - 03/21	H.013256.5 1-10 ITS Scott to Lake Ch Management Plan (TMP) for the constr	arles (Southwest Louisiana) Laurence was the lead traffic engineer for a Level ITS againment along L 10. The plan included a sofety strategy that inc	vel 2 Traffic
	Scan LOS determination utilizing Citrix G	lata lar	of 115 equipment along 1-10. The plan included a safety strategy that inc	on strategies
04/18 12/21	H.010960.5 LA 30 Roundabouts at Ta	nger &	110 Conzales (Ascension, LA) Laurence provided a Quality Control 1	review of the
0 = 12/21	temporary construction and sequence (of cons	truction plans. Vectura also provided Quality Control review of signing	and striping
	plans at 30% and 60% plan sets to ensure	the rou	Indabouts conformed to the Pavement Markings Details Sheet PM-09 and	the MUTCD
	details on roundabouts.			
04/18 - 12/21	H.011909.5-4 Roundabout: US 171 at	Boone	St. (Vernon Parish) Laurence provided a Quality Control review of the	e temporary
	construction and sequence of construction	ion pla	ns. Vectura also provided Quality Control review of signing and striping	plans at 30%
	and 60% plan sets to ensure the roundab	outs co	onformed to the Pavement Markings Details Sheet PM-09 and the Manua	I on Uniform
02/20 00/21	College Drive Corridor Enhancement f	s on rou	inductions.	er to develop
02/20 - 09/21	Chapter 1 (Data Collection), Appendix A	(Initial	Data Collection), and Appendix B (Final Data Collection) for proposed in	mprovements
	College Drive. Since the I-10 interchange	e was i	ncluded in the study, approval from DOTD was required. After the 7-	day, 24-hour
	counts were collected in March of 2020,	DOTD	stopped all data collection due to the impacts of COVID-19. After a par	use of a year,
	Vectura closely worked with the City of	Baton l	Rouge and DOTD to provide sufficient data that traffic patterns were retu	rning to pre-
	COVID conditions and allowed PM peak	hour da	ata to be collected. Vectura collected, turning movement counts, 85% spee	d data, travel
	time runs, queue measurements, field o	observa	tions, verification of Traffic Signal Inventories, and bicycle / pedest	rıan / transıt
10/17 10/19	University Avenue)	Corrid	or Planning Study (Lafavotto IA) Laurance was the lead transportation	anginaar for
10/17 - 10/18	a Corridor Planning Study for LA 182	The sc	one focused on improving safety and mobility for pedestrian bicycle and	transit users
	Laurence collected AM & PM peak vehi	cle turr	ning movement counts as well as pedestrian and bicycle counts. Laurence	e coordinated
	with the Acadiana Planning Commission	n to de	velop growth rates and design year volumes. Laurence then perform	ned Highway
	Capacity Manual analysis for 5 intersecti	ions alc	ng the intersection analyses for the signalized and roundabout controlled	alternatives.
	Included in the study was a safety analyse	es of fiv	e intersections and the intermediate segments. Based on the results of the sa	fety analysis,
00/1/	Laurence provided design criteria to the d	lesign to	eam for improving safety of pedestrians, bicycles, and vehicles.	
09/16 - 04/17	H.004957.5 I-12 To Bush - LA 3241 (I-12)	$\mathbf{Z} - \mathbf{L}\mathbf{A}$	36) Corridor Study (St. Tammany Parish, LA) Laurence was the lead tra	attic engineer
	variables in accordance with standard area	LA 324	alignment with the purpose of obtaining both existing and projected	Inture traffic
	variables in accordance with standard ope	rating p	nocedures typicany performed in mese types of analyses. Laurence worked	i closely with

	the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that
	improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence,
	along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening
	peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative.
07/16-01/17	Federal Highway Administration Intersection & Interchange Geometrics (IIG): Innovative Design Considerations for All Users
	At the request of the FHWA division office for Virginia, Laurence was asked to review a set of design plans for a Displaced Left Turn
	(DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange
	and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and
	signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the
	FHWA Virginia Division office for their use.
04/11 - 09/11	SPN 424-04-0032 US 90 at Louisiana 85 Design-Build Maintenance of Traffic Plan (Iberia Parish, LA) Laurence developed a
	Maintenance of Traffic plan that accommodated the bridge and road widening, but also maintain passage of large trucks and freight
	through the heavily travelled corridor crucial for agricultural goods and farming. Laurence was the Lead Traffic Engineer for one of the
	first design-build projects undertaken by DOTD, which included the construction of a grade separated, diamond interchange to replace
	the existing US 90 intersections with Louisiana 85 in Iberia Parish to upgrade this future I-49 corridor to interstate standards.
06/10 - 10/10	SPN 454-02-0071 I-12 Widening Design-Build Amite River Bridge to Juban Road Maintenance of Traffic Plan (Livingston
	Parish, LA) Laurence was responsible for designing a Maintenance of Traffic plan that would keep drivers informed of real time traffic
	situations through a comprehensive traffic management system. Four lanes (two lanes in each direction) were to remain open during peak
	travel times throughout the length of the project. Temporary lane closures only occurred at night.
09/06-09-07	EBR 06-CS-HC-00012 Downtown Baton Rouge Signal Project (Baton Rouge) Laurence was the Project Manager to develop
	construction plans to upgrade 29 signals in downtown Baton Rouge as part of the EBR Green Light Plan. He coordinated numerous
	utility conflicts during construction since current utility plans were not readily available in an old part of town. He made several signal
	pole foundation location adjustments based on numerous field visits with utility companies.

Firm employed by	Vectura Consulting Services, LLC				
Name Prasanth	Malisetty, PE, PTOE, PTP, RSP1		Years of experience with this firm/employer	1	
Title Senior Pre	oject Engineer		Years of experience with other firm(s)/employer(s)	17	
Degree(s) / Years /	Specialization	B.E.	/ 2003/ Civil Engineering; M.S. / 2004/ Civil Engineering		
Active registration	number / state / expiration date	PE.0	035792 / LA / 3/31/2023		
Year registered	2010 Discipline	Civil			
Contract role(s) / br	rief description of responsibilities	Senio	or Project Engineer for Traffic Control Design, Signal CE&I and TM	ИР	
Experience dates	Experience and qualifications rele	evant t	to the proposed contract; i.e., "designed drainage", "designe	d girders",	
(mm/yy–mm/yy)	"designed intersection", etc. Expe	rience	dates should cover the time specified in the applicable MPR(s).	
09/20 - 12/21	H.011909.5-4 Roundabout: US 171 at	Boone	St. (Vernon Parish) Prasanth was the lead design engineering for temp	porary signal	
	design associated with the sequence of co	onstruc	tion for the roundabout at US 171 at Boone St.		
09/20 - 12/21	H.010960.5 LA 30 Roundabouts at Tan	ger I-10	(Ascension Parish) Prasanth was the lead design engineering to produce t	he temporary	
	signal design associated with the sequence	e of cor	nstruction for the roundabouts on LA 30 in Gonzales, LA. This project cor	sists of eight	
	proposed construction phases.				
02/21 - 02/22	enhance transit bicycle and pedestrian n	ncemer pobility	on LA 67 (Plank Road) that required City-Parish and DOTD approval	Laurence and	
	Prasanth developed traffic operations eva	luation	of the traffic study which included traffic signal timing evaluations.	Saurenee and	
01/21 - 05/21	H.013256 - I-10 ITS Scott to Lake Cha	rles (La	afayette, Acadia, and Jefferson Davis Parishes) Prasanth and Reece wer	e responsible	
01/21 00/21	for measuring anticipated construction qu	antities	s and producing a cost estimate for fifteen sites along I-10 where CCTV c	ameras were	
	being installed by using DOTD's Bid Ta	bulatio	n and Cost Estimating Tool.		
12/18 - 7/20) H.002297 LA 37 Sullivan Road to Liberty Road (Baton Rouge) Prasanth was the project manager to develop feasible roadway				
	development of growth rotes, existing and	tion an	traffic analyses. Presently was responsible for traffic for easily for no built	a collection,	
	alternatives using the CRPC travel dem	and mo	odels. Also performed the existing and future traffic analysis and prop	ose potential	
	alternatives to mitigate existing deficienc	ies.	source raises, portering and encounter and prop	ere bereinen	
11/17 - 12/18	H.013264 District 08 Safety Investmen	t Plan ((Louisiana) Prasanth was the project engineer responsible for preforming	g districtwide	
	safety analysis and preliminary engineeri	ng stud	ies for various locations considered high potential for safety improvements.	. Responsible	
	for evaluating crash statistics to identify	possibl	e roadway issues by using appropriate safety analysis tools and recomm	end potential	
	operation safety countermeasures. Develo	ped Co	untermeasure Evaluation I ool (CEI) tool which aid in determining total cra ad cost sayings and perform benefit (cost analysis	ash reduction	
10/16 12/18	H 012685 LA 385 Rvan Street Feasibil	ity Stu	dv (Lake Charles LA) Present was the project engineer responsible for	r develoning	
10/10 - 12/18	feasible alternatives to preserve / enha	ance mo	obility and safety along the corridor. The 1.8-mile corridor study area	includes 22	
	intersections and 133 driveways. The pro	ject inc	luded data collection, safety / crash review, traffic forecasting, developing	; alternatives,	
	analysis of existing and proposed condition	ons and	benefit / cost analysis. The future year traffic for the proposed roadway alto	ernatives was	
	forecasted utilizing IMCAL travel deman	d mode			
8/10 - 2/18	DOTD Traffic Engineering Contracts	(Statev	vide, LA) As a project engineer for numerous task orders for Traffic Si	gnal Timing	
	coordinated signal timing plans and field	unsible	nor coordinating data conjection tasks, intersection analysis, crash analysis mentation / fine tuning along 27 corridors throughout statewide which it	involved 264	
	intersections. Following are the list of con	ridors	mentation / mile taning along 27 corridors unoughout statewide which		

	• District 04; LA 1, LA 526 & US 171, Shreveport, LA; LA 3, LA 3105 & LA 72, Bossier, LA – 110 intersections, 7 corridors
	• District 02; LA 3040 & LA 57, Houma, LA; LA 20, Thibodaux, LA; US 61, New Orleans, LA – 44 intersections, 4 corridors
	• District 62; US 11, Slidell, LA; LA 19, Baker, LA; LA 44, Gonzales, LA; LA 3124 & LA 60, Bogalusa, LA; LA 10 Franklinton,
	LA; LA 16, Amite, LA; LA 38, Kentwood, LA; LA 25, Folsom, LA – 68 intersections, 9 corridors
	 District 58; US 425, Vidalia & Ferriday, LA – 11 intersections, 2 corridors
	 District 08; LA 1208-03, US 71 & LA 28 – 21 intersections, 3 corridors
	District 07; US 190 & US 171, DeRidder, LA – 10 intersections, 2 corridors
09/10 - 02/12	S.P. No. 700-99-0447 US 190 Superstreet Study (Covington, LA) Prasanth was the project engineer responsible for performing
	corridor study and develop solutions to improve mobility along the corridor. The alternatives analyses included R-CUT and signalized
	intersection using Synchro and SimTraffic. Responsible for data collection, travel time runs and intersection analysis.

Firm employed by	Vectura Consulting Services, LLC					
Name Reece Rodrigue, PE, PTOE			Years of experience with this firm/employer	2		
Title Project Tr	raffic Engineer		Years of experience with other firm(s)/employer(s)	7		
Degree(s) / Years /	Specialization	B.S.	/ 2013/ Civil Engineering			
Active registration	number / state / expiration date	PE.0	042074 / LA / 3/31/2024			
Year registered	2017 Discipline	Civil				
Contract role(s) / bi	rief description of responsibilities	Proje	ect Engineer for Traffic Control Design, Signal CE&I and TMP			
Experience dates	Experience and qualifications rele	vant 1	to the proposed contract; i.e., "designed drainage", "designe	d girders",		
(mm/yy–mm/yy)	"designed intersection", etc. Exper	rience	dates should cover the time specified in the applicable MPR(s).		
07/21 – Current	H.007160 - EBR Computerized Traffic Engineering and Inspection . Reece has accepting the manufactured poles. Reece foundation locations.	e Signa review e, with	II, Phase VB (Baton Rouge) Reece is part of the team responsible for (wed the signal mast arm shop drawings to assist the City-Parish of Bat the DOTD, City-Parish and the Contractor conducted field visits to a	Construction on Rouge in confirm pole		
01/21 - 05/21	5/21 H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Reece was a member of subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being instal Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by us DOTD's Bid Tabulation and Cost Estimating Tool.					
09/20 - 12/21	H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Reece was a project engineer, who participated in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.					
09/20 - 12/21	H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Reece was a project engineer, who assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.					
04/20 - Current	H.004791 DOTD Belle Chasse Bridge project engineer who designed the tempo signals is set for eight phases of construct recommended for placement for use for a in accordance with DOTD and ITE guid Management Plan, which were also used for the production of permanent signal pla bar locations, calculated vehicle, and per crossings, designed the wiring layout, an engineering team for product consistency submitted by the contractor for use in con-	& Tur rary to tion pe ll cons lance. in plan ns for edestria d deve 7. In ac structio	Traffic signal for the intersection of LA 23 at Engineers Rd. The design of the rest the anticipated sequence of construction. Temporary pole location and truction phases. Vehicle clearance interval calculations were conducted for Reece is responsible for producing the traffic impact analysis portion of ning for the permanent and temporary signal timing plans. Reece was also the LA 23 intersections at Engineers Road and at Burmaster Street. He evan clearance intervals, designed the railroad preemption sequence for the bloped the interconnect plan. Reece maintains correspondence with the foldition, Reece was responsible for reviewing and approving shop drawing on.	Reece is the ne temporary heights were or each phase f the Traffic o responsible luated STOP both at-grade ellow design ags that were		

02/20 - 09/21	College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA) Reece was the task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection
	turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle
	counts, and weaving counts.
02/16 - 12/16	H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish) Reece was a team member responsible for the layouts for the US
	190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. He aided in the
	technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the
	area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand
	walk-through.
01/16 - 11/17	Ochsner Main Campus Traffic Signals (Jefferson Parish) Reece served as a design engineer for the traffic signal plans for the two
	Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian
	timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination
	timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used
	TruTraffic determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans
	for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating
	construction quantities using DOTD's 2016 Spec Item list.

Firm employed by	Vectura Consulting S	ervices, LLC				
Name Kristen Gahagan Farrington, PE, PTOE				Years of experience with this firm/employer	1	
Title Project Traffic Engineer				Years of experience with other firm(s)/employer(s)	7	
Degree(s) / Years /	Specialization		B.S. /	/ 2014/ Civil Engineering		
Active registration 1	number / state / expiration	on date	PE.0	042785 / LA / 3/31/2023		
Year registered	2016	Discipline	Civil			
Contract role(s) / br	ief description of respon	nsibilities	Proje	ect Engineer for Traffic Control Design, Signal CE&I and TMP		
Experience dates	Experience and qua	lifications rele	evant t	to the proposed contract; i.e., "designed drainage", "designe	d girders",	
(mm/yy–mm/yy)	"designed intersection	on", etc. Expe	rience	dates should cover the time specified in the applicable MPR(s	s).	
06/21 - 02/22	H.013267 Capital Area	a Pathways Proj	ect (Ba	aton Rouge, LA) Kristen was a project engineer for a traffic study to e	evaluate trail	
	crossings at three state i	outes that require	ed DOT	D approval. The traffic design study included traffic data collection, sat	ety analysis,	
	existing conditions anal	lysis and alternat	ive ana	lysis. Laurence used the DOTD Traffic Engineering Manual, MUTCD,	and FHWA	
03/19 - 11/19	H 012311 LA 429 Cont	nector Stage 0 (A	scensio	on Parish) Kristen was the task leader for the preparation of a Stage 0 stud	v to evaluate	
03/17 - 11/17	alignments for a limited	-access corridor (LA 429	(a) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the v	videning and	
	reconstruction of LA 429	9 were evaluated.	The sco	ope consisted of stakeholder and public meetings, site visits and data collec	tion, phasing	
	of alternative developme	ent for the corrido	r, scop	e and budget checklists, and an opinion of probable cost to prepare the Sta	ige 0 Report.	
	Kristen served as the ci	ivil engineer resp	onsible	e for designing high level concept exhibits and comparison matrix to de	termine best	
	preliminary alternatives	moving forward	to meet	the purpose and need of the project. Compiled meeting agenda materials	and minutes,	
00/17 00/18	H 011160 LA 73 Corri	dor Study Stage		74 to I A 621) (Ascension Parish) Kristen was the designer responsible	e for concept	
09/17 - 09/18	development report writing and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives					
	to improve capacity and	operations along t	he LA'	73 corridor and its connecting transportation network. The scope included th	ne evaluation	
	of three interchange con	figurations for the	interch	nange of I-10 at LA 73 in conjunction with two corridor alternatives for LA	73, resulting	
	in six different alternativ	ves for which line	and gra	ade, impacts, and high-level cost estimates were prepared.		
04/18 - 04/19	H.011243.1 I-49 at US	190 and LA 31	Intercl	hange Improvements Stage 0 (St. Landry Parish) Kristen was the pro	ject engineer	
	responsible for crash and	l safety analysis, r	eport w	riting, planning, and designing for this Stage 0 Study to evaluate alternative anges with US 100 and LA 31. Crash and safety analysis was perform	es to improve	
	LADOTD CAT Scan to	ol and IHSDM	and line	and grade was prepared to DOTD Design Standards for various corrido	ors including	
	arterial collectors and from	eeway ramps. Clo	se coor	dination with traffic engineer ensured maximum improvement of safety ar	nd operations	
	given limited right-of-way and utility conflicts along the corridors.					
04/19 - 6/21	H.013817.1 A 117 Imp	rovements Stage	0 (Ver	rnon and Natchitoches Parishes) Kristen served as project engineer resp	onsible for a	
	Stage 0 study for 18 mi	les of two-lane L	A 117 1	from LA 8 to LA 118. The study evaluated the impacts of correcting defi	cient vertical	
	and horizontal geometry	along the corrido	or, wide	ening for the addition of shoulders, and adding passing lanes and turn lane	s at strategic	
	representation CAT Sea	in quality assuran	ce HSM	Mexisting safety analysis and No-Build Analysis Kristen designed high-	evel concept	
	exhibits, evaluated env	ironmental impac	cts, and	prepared high level cost estimates and comparison matrices to deter	rmine which	
	preliminary alternatives	best meet the purp	oose an	d need of the project. Kristen compiled all findings in the Stage 0 report and	l coordinated	
	with stakeholders and lo	cal agencies to en	isure pu	rpose and need of project is met.		

03/19 - 11/19	H.012311 LA 429 Connector Stage 0 (Ascension Parish) Kristen was the task leader for the preparation of a Stage 0 study to evaluate
	alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and
	reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing
	of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report.
	Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine best
	preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes,
	coordinated with interchange study consultants for a cohesive project, and wrote report.

Firm name	Lazenby & Associates, Inc.				Past Performance Evaluation Discipline(s)* Road, Survey					
Project name	Arkansas Road (West Monroe	e) LA 616)			Firm responsibi	ility (p	rime or sub?	?) Prime
Project number S.P.N. H.002622 Owner's name Louisiana					na Departmen	t of Transportati	on and	Developme	ent	
Project location Ouachita Parish					Owner's Pro	oject Manager	Fred	Borne, P.E.	(Retired)	
Owner's address, phone, email P.O. Box 94245, Baton Ro				on Roug	ge, LA 708	04-9245				
Telephone (225)379-1388 e-mail: Fred.Borne@la.gov										
Services commenced by this firm (mm/yy) 12/07 Tota			Total o	consultant	contract cost	(\$1,000's)		\$	51,611	
Services compl	eted by this firm	(mm/yy)	06/15	Cost o	of consultar	nt services pro	ovided by this fir	m (\$1,	000's) \$	51,512

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. was the prime consultant on this project, which involved the widening of a 3.2-mile segment of Arkansas Road (LA 616) from a two-lane arterial to a five-lane arterial with subsurface drainage. The project included replacing four signalized intersections with multi-lane roundabouts to improve safety. An existing timber bridge site was replaced with a 4 - 7x 7 RCB as part of this project.

Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. Challenges encountered include developing a logical suggested sequence of construction while maintaining through traffic, and design of the roundabout finished grades due to the grades of the approach roadways at three of the roundabouts. Lazenby & Associates also assisted LDOTD in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings. Lazenby & Associates, Inc., also prepared utility relocation plans for water and sewer relocations within the project limits.

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Kevin E. Crosby, P.E., P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- James S. Ellingburg, P.E.
- Randy C. Hammons, P.E.



17.	Firm	Experience:	
		Lapertence	

Firm name	Lazenby & Asso	ciates, Inc.		I	Past Perfo	rmance Evalu	ation Discipline	(s)*	Road	
Project name	Kansas Lane – G	arrett Road C	Connector	and I-20	nd I-20 Improvements Firm responsibility (prime or sub?			rime or sub?]) Prime	
Project number	ct number S.P.N. H.007300 Owner's na				name Louisiana Department of Transportation and Development				nt	
Project location	n Ouachita Parish					Owner's Pro	oject Manager	Cathe	erine Mastin,	P.E.
Owner's address, phone, email P.O. Box 94245, Baton Ro			on Rouge	e, LA 708	04-9245					
Telephone (225)379-1652			1652	e-n	nail: Catherine	e.Mastin@la.gov	7			
Services commenced by this firm (mm/yy) 09/17 To			Total co	onsultant	contract cost	(\$1,000's)		\$2	2,997.4	
Services completed by this firm (mm/yy) current Cos			Cost of	consultar	nt services pro	ovided by this fir	m (\$1,	000's) \$	1,436.3	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. is the prime consultant on this project, which involves widening Garrett Road to four lanes in the vicinity of the I-20/Garrett Road interchange, and constructing a new roadway and bridge over LA 594 and the KCS Railway to connect Garrett Road to Kansas Lane in Monroe. The project also includes a new overpass over Garrett Road, five multi-lane roundabouts, and geometric modifications to the existing interstate ramps. The project also includes lighting, an MSE wall, and a traffic signal.

Lazenby & Associates, Inc., prepared preliminary roadway plans and are currently developing final roadway plans. As the prime consultant, Lazenby & Associates, Inc., is also coordinating the geotechnical engineering services, the development of bridge plans, the development of lighting plans, and traffic management plans (Level 4 TMP) by other firms retained as sub-consultants. Major design components being performed by Lazenby & Associates, Inc., include road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. One major challenge is to construct the project while maintaining traffic as much as possible, with minimum interference with I-20 traffic, which has resulted in a suggested sequence of construction that consists of 8 phases. Lazenby & Associates also assisted in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings.

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- James S. Ellingburg, P.E.
- Randy C. Hammons, P.E.
- Hagan Lawrence, P.E.
- Noah Sampognaro, E.I.



Firm name	Lazenby & Associates,	Inc.		I	Past Perfo	rmance Evalu	ation Discipline	(s)* Road, Su	rvey
Project name	US 165 (LA 841 – Rilla	a)					Firm responsib	ility (prime or su	ıb?) Sub
Project number	S.P.N. 015-08-0026		Owner's	name	Louisia	na Departmen	t of Transportati	on and Develop	ment
Project location	Ouachita Parish					Owner's Pro	ject Manager	LA TIMED M	anagers
Owner's address	s, phone, email P.O.	Box 942	245, Bato	n Rouge	e, LA 708	04-9245			
Services comm	enced by this firm (mm/	yy)	02/00	Total co	onsultant	contract cost	(\$1,000's)		\$2,063.6
Services completed by this firm (mm/yy) 07/07		Cost of	consultar	t services pro	ovided by this fir	m (\$1,000's)	\$1,558.6		

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. was the prime consultant on this project, which was a Louisiana Timed Managers (LTM) project that widened US 165 in Ouachita Parish for a distance of 6.5 miles. The existing roadway was restriped and used to accommodate northbound traffic and a new roadway was constructed to accommodate southbound traffic. The project included redesign of the interchange between US 165 and US 165 Business, near the US 165 overpass of the Union Pacific (UP) railway.

Lazenby & Associates performed a line and grade study and assisted with the Environmental Assessment process, including preparing exhibits for the public meeting, conducting a formal presentation at the public meeting, and preparing permit drawings. Upon approval of the preferred alternative, Lazenby & Associates, Inc. performed topographic surveys and preliminary and final plans, including hydraulic design of cross drains and median drains, and prepared right-of-way maps for the project. One of the more important aspects of design on this project involved conducting a study of the existing interchange and determining the feasibility of constructing a new interchange at this location, which is bounded on the west by the Ouachita River levee and the on the east by the UP railway.

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Kevin E. Crosby, P.E., P.L.S.
- James R. Spillers, P.E.
- Randy C. Hammons, P.E.



Firm name	Lazenby & Asso	ciates, Inc.			Past Performance Evaluation Discipline(s)* Road, Su				Road, Survey	/
Project name	Cheniere Spillwa	ay & Bridge F	Replacem	ent (LA	3033)		Firm responsibi	ility (pri	ime or sub?)	Sub
Project number S.P.N. H.008226 Owner's nam			s name	name Louisiana Department of Transportation and Development				nt		
Project location Ouachita Parish					Owner's Pro	ject Manager	Sarah N	Moss, P.E.		
Owner's address	ss, phone, email	P.O. Box 94	245, Bato	on Roug	e, LA 708	04-9245				
Telephone (225)379-1727			1727	e-m	nail: Sarah.Mo	oss@la.gov				
Services commenced by this firm (mm/yy) 08/14 To			Total c	consultant	contract cost	(\$1,000's)		\$1	,269.5	
Services completed by this firm (mm/yy) 07/20 Cost			Cost of	f consultar	nt services pro	ovided by this firm	m (\$1,00	00's) \$2	261.1	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. was a sub-consultant to The Riley Company of Louisiana, Inc., on this project, which involved replacement of the existing Cheniere Lake spillway and bridge on LA 3033 in Ouachita Parish. The project replaces a structurally deficient concrete spillway and bridge with a new fixed-weir spillway and bridge structure approximately 400 feet northeast of the existing structure. The existing bridge and spillway are being removed and replaced with embankment which will become part of the Cheniere Lake earthen dam. LA 3033 is located on top of the Cheniere Spillway earthen dam along the southeast side of Cheniere Lake. The project was re-designed in 2020 due to the cost of the proposed spillway and also due to funding constraints. The revised plans were expedited to meet an aggressive letting schedule, and were delivered on time.

The original topographic survey was performed by DOTD, but Lazenby & Associates, Inc., performed additional topographic survey work, as well as property surveys and right-of-way maps. Lazenby & Associates, Inc., also performed all roadway design for the project., and established locations for the required cofferdams which are required to dewater the site. This project is currently under construction and is progressing nicely.

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Kevin E. Crosby, P.E., P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- Randy C. Hammons, P.E.



Firm name	Lazenby & Asso	ciates, Inc.		F	Past Performance Evaluation Discipline(s)* Road, S				ırvey
Project name	Bossier North-So	outh Corridor					Firm responsibil	ility (prime or s	ub?) Prime
Project number	S.P.N. H.00385	54	Owner's	s name	name Bossier Parish Police Jury – Northwest Louisiana Council of				uncil of
					Governments.				
Project location Bossier Parish						Owner's Pro	oject Manager	Joe E. Ford, J	:., P.E.
Owner's addres	s, phone, email	P.O. Box 70	, Benton,	, LA 710	06				
Telephone (318)965-2329			2329	e-m	nail: jefbosser	ng@aol.com			
Services commenced by this firm (mm/yy) 07/10			07/10	Total co	Total consultant contract cost (\$1,000's)			\$1,624.9	
Services completed by this firm (mm/yy) 11/17			Cost of consultant services provided by this firm (\$1,000's) \$1,339			\$1,339.1			

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Lazenby & Associates, Inc. was the prime consultant on this project, which involved reconstruction, widening, and realignment of a 3.7-mile segment of Swan Lake Road north of I-220, and construction of a new 4.2-mile roadway on new alignment from Swan Lake Road north to Crouch Road. The southern portion of the project is a three-lane section with subsurface drainage, while the remainder of the project is a two-lane roadway with open ditch drainage. There are three bridge sites included in the project. An existing timber bridge was replaced with a $5 - 10' \times 10'$ RCB, and an existing slab span bridge was widened. The project was ultimately split into two jobs, and the north section which will soon let, includes a new quad beam girder bridge.

Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, bridge design, hydraulic analysis and design (including hydraulic modeling of bridges), geometric design, and sequence of construction. Lazenby & Associates also assisted in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings.

- Jerry G. Lazenby, P.E., P.L.S.
- Paul D. Fryer, P.E. P.L.S.
- Ronald J. Riggin, P.E., P.L.S.
- James R. Spillers, P.E.
- James S. Ellingburg, P.E.
- Randy C. Hammons, P.E.



Firm Name	SIGMA CONS	JLTING GRO	OUP, INC.	Past	Past Performance Evaluation Discipline(s)			Road	
Project name Hooper Rd. Widening (LA 408) Blackwater - Jo					Joor	Firm responsibility (prime or sub?) Pr			Prime
Project number	ct number H.002316 / H.002317 Owner's nar			ame	e EBR Dept. of Transportation and Drainage				
Project location East Baton Rouge Parish					Owner's Pro	ject Manager	Tom Stephens, P	E	
Owner's addres	s, phone, email	P.O. Box	1471, Bato	n Rouge	e, LA 708	21 (225) 38	9-3186 TSteph	ens@brla.gov	
Services commenced by this firm (mm/yy) 10/12			Total consultant contract cost (\$1,000's)				\$1,818.0		
Services completed by this firm (mm/yy) ongoing (Cost of consultant services provided by this firm (\$1,000's)			n (\$1,000's)	\$1,111.4		

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Sigma was contracted by East Baton Rouge Parish DTD, in cooperation with the FHWA and LADOTD, to provide NEPA environmental documentation, planning, and preliminary engineering for the improvements to the Hooper Road existing 2-lane rural roadway from Blackwater Road to Sullivan Road in Central, LA. DTD is proposing capacity and safety upgrades to the corridor using a 4-lane urban boulevard, subsurface drainage and pedestrian accessibility.

As part of the NEPA Environmental Assessment, Sigma performed the roadway planning, natural and human environment data assimilation, determining cumulative impacts, conceptual relocation plans, alternative development, public involvement, and NEPA document preparation. Sigma ran public meetings to gather community input on the project. A Finding of No Significant Impacts (FONSI) was issued for this project in December 2018. Sigma performed preliminary, conceptual design for roundabouts at several intersections along the corridor: Blackwater Road, Lovett Road, and Joor Road.

Sigma is now developing final design and construction plans for the segment from Blackwater Bayou to Joor Road, including the final geometrics of a new roundabout at Lovett Road. With a dynamic DTM of the proposed corridor, Sigma can make adjustments to minimize impacts. **Full roadway plans for the 4-lane boulevard with a raised**



Construction Cost = \$18.3M (est)

Environmental Assessment (NEPA Compliant)

- Lead Environmental Consultant
- Alternative Alignments / Line & Grade
- Alternative Conceptual Sections
- Right-of-Way, Environmental & Residential Impacts
- Public Involvement

Surveying

- Topographic Survey
- Property Survey
- Right of Way Maps

Plan Development

- Roundabout Design
- Road Design
- Drainage Design
- Utility Relocation
- MOT
- Signing & Striping

Sigma Firm Members Involved: In Charge: Greg Sepeda Bryan Harmon Miles Williams Robbie Lear Josh Renard



Firm Name	SIGMA CONSUL	TING GRC	OUP, INC.	Past	Past Performance Evaluation Discipline(s)			Survey, Road	
Project name I-10: East Jct. I-49 to LA 328							Firm responsibi	lity (prime or sub?)	Prime
Project number	ber H.003003 Owner's			ame	e LA DOTD				
Project location Lafayette & St. Martin Parishes						Owner's Pro	ject Manager	Brent Waguespac	k, PE
Owner's addres	s, phone, email	P.O.Box	94245, Ba	ton Rou	ge, LA 70)806, 225- 3 7	9-1524, Brent.W	/aguespack@la.go	v
Services commenced by this firm(mm/yy) 06/				Total consultant contract cost (\$1,000's)				\$847.7	
Services completed by this firm (mm/yy) Ongoing				Cost of consultant services provided by this firm (\$1,000's)				n (\$1,000's)	\$847.7

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

Sigma is the prime consultant for surveying, road design and plan preparation for capacity and pavement replacement on Interstate 10 in Lafayette. The project includes full replacement of the existing roadway and adding one lane in each direction to the inside of I-10, a median barrier, bridge widening (designed by DOTD), W-I-M system relocations, and traffic management/sequencing to maintain two lanes of traffic throughout construction.

Sigma performed the control survey for the project which included establishing five GPS Static Points and 17 RTK/TBM points over 5 miles of freeway. Sigma also performed topographic surveying and coordinated with DOTD's SUE Contractor. All topo of the utilities was performed by Sigma and are shown in the plan and profile sheets of the construction plans. Sigma prepared a utility conflict matrix and coordinated with DOTD District 03 for utility relocation needs.

The road design components include typical sections for both asphalt and concrete alternatives, horizontal and vertical geometrics with existing bridge structures constraining the design parameters, design report forms, geometric details, subsurface and open ditch drainage, pavement markings, cross sections and a detailed analysis of the sequence of construction that will maintain two-lanes of traffic in each direction. Interstate ramp terminals at 5 interchanges were redesigned. Also, upgrades to the exit ramps at LA328 were designed for added turning movement capacity at LA328. A Level 4 TMP and Financial Plan were also developed by Sigma. Sigma was responsible for all meeting minutes, preparation of disposition of comments, and maintaining the overall project schedule through coordination with DOTD Project Management.

Sigma was responsible for coordinating the multi-discipline project and preparing the final plan package. This included subconsultants, DOTD in-house staff, and consultants through other contracts who were responsible for bridge design, permanent signing, weigh-inmotion, roadway lighting, geotechnical borings, and SUE designations. Sigma also prepared permit sketches for LADOTD and attended public meetings for environmental clearance.

Sigma determined roadway pay items and calculating all roadway quantities. The final summary of estimated quantities and estimated construction cost was prepared by Sigma. This included collecting pay items and quantities from all disciplines and incorporating the plans into one complete set. Sigma is currently providing construction support on this project.

Sigma Firm Members	Involved:
In Charge: Robbie Lear	r -
Greg Sepeda	Miles Williams
Alex Farr	Bryan Harmon
Derek Wheat	Josh Renard

Firm Name	SIGMA CONSU	LTING GRO	OUP, INC.	Past	Past Performance Evaluation Discipline(s)			Survey, Road	
Project name LA 342: Roundabout @ LA 724 Route LA 342 Firm responsibility						lity (prime or sub?)	Prime		
Project number H.002163 Owner's na				ame	LA DO1	D			
Project location Lafayette Parish						Owner's Pro	ject Manager	Tim Nickel, PE	
Owner's address, phone, email P.O. Box 94245, Baton Rouge, LA 70806, 225-379-1110, Timothy.Nickel@la.gov						Nickel@la.gov			
Services commenced by this firm (mm/yy) 01/14				Total consultant contract cost (\$1,000's)				\$282.8	
Services completed by this firm (mm/yy) 07/16				Cost of consultant services provided by this firm (\$1,000's)			n (\$1,000's)	\$282.8	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

This project included full topographic surveying, right of way mapping, and road design for a new single lane roundabout in Lafayette, LA.

Sigma designed a roundabout at the intersection of Ridge Road and Fieldspan Road. The intersection geometry includes an urban two-lane highway to the east (LA 342), a local two lane road to the west (Ridge Rd.), and an urban two lane highway to the north (LA 724) and south (LA 342 / LA 724). The design of the project is in conformance with EDSM VI.1.1.6, along with all recommendations from the project roundabout study. The project included subsurface and open ditch drainage through and area with minor historic flooding and very little hydraulic fall.

The topo survey included topography of the existing roadway, drainage features, existing utilities and roadside features. Sigma coordinated with the DOTD District 03 Utility Coordinator and utility owners for utility impacts to the project. Right of way maps were also prepared by Sigma in accordance with DOTD Location & Survey requirements.



Topographic / Property Survey & R/W Maps

Construction Cost = \$1.75M

- Field Topography
- Property Survey
- Title Research Reports

GPS Control Sketch

- Right of Way Maps
- Utility Coordination: QL-D and QL-C
- Topographic Mapping with INROADS Survey

Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry
- Design Report
- Typical Sections
- Geometric Details
- Plan / Profiles
- Drainage Design

<u>17. Firm Experience:</u>

Firm name	Vectura Consulting Services,	LLC	I	Past Perfo	rmance Evalu	ation Category(ies)* TM	
Project name	I-10 ITS Scott to Lake Charles	-10 ITS Scott to Lake Charles				Firm responsib	ility (prime or su	b?) sub
Project number	roject number H.013256.5 Owner's nam			DOTD				
Project location I-10 (District 07)					Owner's Pro	ject Manager	Roy Esteven, P	E
Owner's address, phone, email 1201 Capitol Access Road			oad, Ba	aton Roug	e, LA 70802,	225-379-2527,	Roy.Esteven@L	A.gov
Services commenced by this firm 01/21 T			Total consultant contract cost (\$1,000's)				unknown	
Services completed by this firm 03/21 C			Cost o	of consulta	nt services pr	ovided by this f	irm (\$1,000's)	\$20,162

Vectura performed a Level 2 **Traffic Management Plan** (TMP) for the construction of ITS equipment along I-10. The plan included the following activities:

- safety strategy that included a CAT Scan,
- LOS determination utilizing Citrix data,
- lane closure recommendations based on a queue analysis,
- cost estimate,
- and public information strategies.

100% of the work on this Project was performed in Louisiana.

- Laurence Lambert
- Prasanth Malisetty
- Reece Rodrigue
- Kristen Farrington

<u>17. Firm Experience:</u>

Firm name	Vectura Consult	ing Services, I	LLC	I	Past Perfo	rmance Evalu	ation Discipline	(s)* Traffic &	CE&I
Project name	name Belle Chasse Bridge & Tunnel Replacement				Р		Firm responsib	ility (prime or su	b?) sub
Project number	H.004791 Owner's na			name	DOTD				
Project location	ation Belle Chasse, LA					Owner's Pro	ject Manager	Nickolas Olivie	er, PE
Owner's address	ner's address, phone, email 1201 Capitol Access Roa			Road, Ba	aton Roug	ge, LA 70802,	225-379-1133,	Nicholas.olivier(@la.gov
Services comm	Services commenced by this firm (mm/yy) 04/19		Total o	Total consultant contract cost (\$1,000's)				unknown	
Services compl	Services completed by this firm (mm/yy) curre		current	Cost o	Cost of consultant services provided by this firm (\$1,000's)				211.890

Vectura is providing the traffic engineering services for the Belle Chasse Bridge & Tunnel Replacement Project for improvements along LA 23. Vectura is responsible for the following tasks:

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- Assist the Prime with Traffic Management Plan (TMP)
- Response to request for information (RFI's)
- As-built plans for the traffic signals

100% of the work on this Project was performed in Louisiana.

- Brin Ferlito
- Laurence Lambert
- Prasanth Malisetty
- Bridget Robicheaux
- Reece Rodrigue

Firm name	Vectura Consulti	ng Services, I	LLC]	Past Perfo	rmance Evalu	ation Category	ies)* TM	
Project name	Roundabout: US	171 at Boone	e St.				Firm responsib	ility (prime or su	lb?) sub
Project number	r H.011909.5-4 Owner's nat			name	DOTD				
Project location	tion Vernon Parish, LA					Owner's Pro	ject Manager	Josh Harrouch	
Owner's address	wner's address, phone, email PO Box 94245 Baton Rou			Rouge,	LA 70804	4-9245, (225)	242-4640, Joshu	ia.Harrouch@LA	A.GOV
Services commenced by this firm 11/20 T			Total	consultant	contract cost	: (\$1,000's)		unknown	
Services completed by this firm 12/21 C			Cost c	of consulta	int services pr	ovided by this fi	irm (\$1,000's)	\$82.045	

Vectura designed temporary traffic signal plans as part of the sequence of construction plan for a roundabout construction at the intersection of US 171 at Boone Street in Leesville, LA. The purpose of the project was to replace the existing signalized intersection with a multilane roundabout at Boone Street.

Roundabout Pavement Marking QC Review

Staff from Vectura provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.

Temporary Traffic Signal Design

Vectura performed following design tasks to develop temporary traffic signal plans:

- Detailed study of sequence of construction plans to determine the optimal traffic signal operation and required traffic signal equipment for each sequence of construction phase,
- Reviewed potential access issues for all the impacted driveways / streets along the project area for each sequence of construction phase,
- Developed multiple traffic signal timing plans by time of day for each sequence of construction phase to maintain progression along main corridor,
- Developed temporary signal plans including pole and span wire layout, signs, striping, power source, signal timings by time of day, vehicle detection, signal head placement, wiring diagram, pole height calculations, clearance calculations, quantities, construction cost estimate, and
- Coordinated with DOTD Traffic Section and District Traffic Engineer.

100% of the work on this Project was performed in Louisiana.

- Brin Ferlito
- Prasanth Malisetty
- Reece Rodrigue
- Laurence Lambert
- Bridget Robicheaux

18. Approach and Methodology:

1.0 - Understanding of Contract Scope:

The contract is an Indefinite Delivery/Indefinite Quantity (IDIQ) contract for Road Design services statewide. While it is unknown specifically what task orders might be issued as part of this contract, Lazenby & Associates, Inc., has assembled an exceptional team (which includes Sigma Consulting Group, Inc. and Vectura Consulting Services, LLC) that is capable of addressing a wide variety of roadway and traffic projects, from simple roadway approaches on a rural bridge replacement to a much more complex project in an urban environment. Note that the design team that we have assembled has a presence in both North Louisiana (West Monroe) and South Louisiana (Baton Rouge), which will allow us to better serve LADOTD's needs in fulfilling the requirements of the IDIQ contract.

In the course of performing the necessary work, the Lazenby Team will utilize all standard design guidelines typical for these types of projects, including, but not limited to, the following:

- LADOTD Location and Survey Manual
- LADOTD Roadway Design Procedures and Details Manual
- LADOTD Minimum Design Guidelines
- LADOTD Hydraulics Manual
- LADOTD Bridge Design and Evaluation Manual
- LADOTD Sign Manual
- LADOTD Pavement Markings Manual
- LADOTD Traffic Signal Manual
- LADOTD Traffic Engineering Manual
- LADOTD Transportation Management Plans (EDSM VI.1.1.8)
- AASHTO's A Policy on Geometric Design of Highways and Streets
- AASHTO's Roadside Design Guide
- Manual on Uniform Traffic Control Devices for Streets and Highways

2.0 - Project Approach:

2.1 – Topographic Survey

One of the first steps in the typical design process is to perform a topographic survey of the project area. Lazenby & Associates, Inc. will conduct topographic surveys for the parishes north of, and including, Vernon Parish, Rapides Parish,

Avoyelles Parish, and Concordia Parish. Sigma Consulting Group, Inc. will conduct topographic surveys south of these parishes.

The initial step in conducting topographic surveys will be to set GPS control points for the project. After GPS control points have been established, a GPS control sketch will be submitted to LADOTD Location and Survey section for review and approval prior to performing a detailed topographic survey. **3D terrestrial scanning will be utilized** as necessary for bridges and other hard surface areas (i.e., pavement surface), to minimize disruption to motorists and to increase the safety of the survey field crews. For high ADT roadways, such as interstates, **mobile LIDAR scanning will be utilized** as required. The remainder of the project limits will be surveyed using both GPS and conventional surveying methods. The surveyed alignment will be established for the existing roadway by performing regression analysis on existing topographic survey shots of roadways and bridges. Existing drainage maps will be developed as part of the topographic surveying services.

Existing utility owners will be identified via Louisiana One-Call. It is recognized that not all utilities are members of Louisiana One-Call. To this end, we will contact local municipalities as necessary to determine the presence of any additional utilities, as well as contacting water companies that operate within the project limits if no water company shows up on the One-Call ticket. It is unknown at this time if SUE services will be required. However, **Sigma Consulting Group**, **Inc.**, **has the capability to conduct SUE services under this contract** if necessary.

It should be noted that both Lazenby & Associates and Sigma Consulting Group survey crew personnel have obtained the required ATSSA Flagger and Traffic Control Technician work zone training certifications.

2.2 – Traffic Control Design, Traffic Signal Analysis and Design

Vectura Consulting Services, LLC will perform all necessary traffic engineering services under this contract in accordance with current LADOTD requirements and in accordance with the previously noted documents. Vectura employs seven Professional Engineers who have successfully completed the LADOTD Traffic Engineering Process and Report (TEPR) class, six of which are also registered as Professional Traffic Operations Engineers (PTOE's). The Vectura team has a thorough understanding of the data collection, safety analysis, and alternatives analysis process required to develop the most appropriate traffic control devices, including traffic signal analysis and design.

2.3 – Preliminary and Final Roadway Design, Plan Development, and Cost Estimates

Lazenby & Associates, Inc., and Sigma Consulting Group, Inc., will be responsible for roadway design, with Vectura Consulting Services, LLC, assisting as needed for traffic related issues. The Lazenby team has a long history of successful performance of road design services for LADOTD and other clients and is prepared to deliver a quality product for a wide range of roadway projects, from a simple roadway approach design for a rural bridge replacement or an intersection improvement project such a traffic signal or a roundabout, to a more complex project such as a capacity improvement project along a busy corridor in an urban setting.

After a topographic survey has been completed, and, if necessary, a Type, Size, and Location report has been prepared and accepted by LADOTD (in the case of a bridge replacement project), roadway plans will be developed. Appropriate roadway design criteria for each project will be established based on the LADOTD Minimum Design Guidelines. The existing alignment will be analyzed for conformance to current design standards based on the selected design criteria, and necessary improvements will be made as warranted. Roadway design will be performed in accordance with LADOTD standards and the previously mentioned manuals and publications. The individual projects and sites will be designed to minimize right-of-way and environmental impacts to the extent possible.

It is understood that this IDIQ contract is for road design services; therefore, we assume that any bridge design and bridge plans will be prepared by others. The Lazenby team will closely coordinate with LADOTD, or its consultant, to ensure an efficient work flow and timely delivery of milestone submittals.

An important aspect of roadway design on any project is **maintenance of traffic** during construction, and projects issued under this IDIQ contract will be no different. Obviously, the cheapest way to construct a project is via road closure, and this is sometimes feasible on smaller rural projects where reasonable off-site detours are available. However, often times this is not the case, and traffic must be maintained throughout the project limits. The Lazenby team will closely evaluate each project to determine the most efficient method of construction while keeping in mind the needs of the traveling public, and is prepared to prepare Suggested Sequence of Construction plans which balance the needs of the contractor and the public to the extent possible.

Where roadway closure is not a feasible option, on-site diversion roadways with temporary drainage structures are often required. We recognize that temporary diversion roadways, especially through wetland areas, could have potential environmental impacts, but these will be minimized as much as possible. For example, for a bridge replacement which involves a Reinforced Concrete Box as the preferred alternate, a Three Phase Diversion Construction process as outlined in Figure 4-12 of the LADOTD Roadway Design Procedures and Details Manual can be utilized.

Opinion of Probable Construction Cost (OPCC) estimates will be prepared for each project. Typically, the initial OPCC will be submitted as part of the Plan-in-Hand submittal, when sufficient work has been done to have a good idea of pay items and quantities. The OPCC will then be updated for each subsequent submittal. The cost estimates will typically be prepared using the Cost Estimating Tools that are available on the LADOTD website.

2.4 – Hydraulic Analysis and Design

The Lazenby Team will perform necessary hydraulic analysis and design for each project as required, and will utilize the analysis methods outlined in the **LADOTD Hydraulics Manual.**

2.4.1 – Type, Size and Location Reports

A Type, Size, and Location Report will be prepared for bridge replacement projects. Peak runoff will be determined using either the USGS Method or the NRCS Method, as applicable based on the size of the drainage basins. A hydraulic model of the existing and proposed bridges will be created based on the peak runoff analyses using WSPRO or HEC-RAS software. Proposed box culverts will be analyzed utilizing LADOTD's HYDRWIN software. A comparison in hydraulic performance will be made in the Type, Size and Location Report between the existing structure and any feasible alternates, and a recommended structure will be included in the report.

Where no stream gage data is available, as is typically the case, **local residents** and LADOTD officials will be interviewed as part of the hydraulic analysis process in an attempt to obtain historic water surface elevations. Additionally, we will research news archives and available parish/city data on recent highwater events. The information gathered from the interviews and research will be used to calibrate the models as necessary. If USGS stream gage data is available, this information will be used to calibrate hydraulic bridge models.

2.4.2 – Other Hydraulic Analysis and Design

Cross drains will be analyzed and designed in accordance with the LADOTD Hydraulics Manual using LADOTD's HYDRWIN software. Peak runoff for cross drains will typically be calculated using the NRCS Method and HYDR1130. HYDR1120 will then be used to perform hydraulic analysis of various alternates to determine the most cost-effective drainage structure that satisfies the design criteria and any site-specific requirements.

Subsurface storm drain systems will be analyzed using the Rational Method and LADOTD's HYDRWIN software. HYDR6000 will typically be used to determine catch basin types and locations, and HYDR6020 will be used to size storm drain pipes. In locations where analysis using HYDR6000 is not feasible, such as where the roadway geometry is not a consistent width or for area catch basins that are located behind the curb, analysis by hand calculations or Excel spreadsheets will typically be performed.

The methodology and results of hydraulic analysis and design for each project will be documented in a Hydraulic Design Report which will be submitted to LADOTD for review and approval.

2.5 – Road Design Services During the Environmental Process

It is understood that the Lazenby team will not be responsible for obtaining environmental approval for projects under this contract. However, we have experience in assisting LADOTD with the environmental clearance process on numerous past projects and will prepare drawings, exhibits, and PowerPoint slides as necessary, including preparing permit drawings for USACE permits. The Lazenby team will also assist LADOTD in conducting public meetings and hearings as necessary.

2.6 – Special Provision Write-Ups

Whenever possible, the Lazenby team will use standard LADOTD pay items, or non-standard items for which a special provision already exists. However, we realize that there are instances where this is not possible on certain projects. We have experience writing special provisions for non-standard items on LADOTD projects, and are familiar with the desired general format of such special provisions. We are prepared to write special provisions for LADOTD review and approval as necessary under this contract. Lazenby & Associates, Inc., recently wrote special provisions for certain utility relocation items as part of State Project No. H.007300, Kansas Lane – Garrett Road Connector and I-20 Improvements. These special provisions have been approved by the LADOTD Specifications Unit.

2.7 – Transportation Management Plans (TMPs)

Vectura Consulting Services, LLC, will be responsible for Traffic Management Plans under this contract. **Vectura will closely follow EDSM VI.1.1.8** for TMP's, and will coordinate with LADOTD to obtain traffic volume and safety data to perform safety analyses and alternative route analyses. If historic data is not available, the Traffic Study Scope of Services as outlined on the LADOTD Traffic Engineering website will be followed. Vectura's staff have worked closely with LADOTD through the development and implementation of the TEPR process, and will utilize this experience to successfully navigate the TEPR process as required under this contract. **Vectura will closely coordinate with the roadway design team to implement a Work Zone Impact Management Strategy document to minimize risk and delays to the traveling public.**

2.7 – Quality Plan Reviews

The Lazenby team is well versed in design and plan preparation on LADOTD projects, including the preparation of cost estimates and special provisions. As a standard of practice, we perform QA-QC of our own work, and are prepared to provide reviews of plans, estimates, and special provisions prepared by others. Lazenby & Associates routinely performs plan reviews of work done by others on transportation projects for the City of Monroe and the I-20 Economic Development District. As an example, Lazenby & Associates, Inc., is currently providing this service to the City of Monroe, and is reviewing plans on behalf of the City for State Project No. H.007289, Kansas Lane Extension.

2.8 – Construction Support

The Lazenby team is prepared to provide construction support to LADOTD as necessary to address construction issues for projects that are designed under this contract, including addressing Requests for Information (RFI's) from the construction contractor. Lazenby & Associates, Inc., is currently providing construction support services on State Project Nos. H.002622, Arkansas Road (Caldwell Road - LA 143) and H.008226, Cheniere Spillway & Bridge Replacement, both of which are located in LADOTD District 05, and has provided construction support on several other LADOTD projects in the past.

3.0 – Schedule:

Since no task orders have been issued under this contract, it is obviously not possible to prepare a specific schedule at this time. However, a generic sample schedule has been prepared to demonstrate that the Lazenby team has a working knowledge of the typical work flow on a LADOTD project. The sample schedule prepared below would be applicable to a rural bridge replacement project.

Project specific schedules will be prepared for each task order issued under this contract, and the Lazenby team will devote the necessary resources to ensure the timely delivery of milestone submittals.

Typical Bridge Repla	cement Project Schedule
Task	Estimated Days
Topographic Survey Services	
Hydraulic Analysis and Design Services	
Type Size and Location Report	
LADOTD Review	
Address Comments	
🐥 Geotechnical Investigations	
Field Investigations & Laboratory Testing	
Prepare and Submit Geotechnical Data Reports (GDR) & (GIR)	
Preliminary Plan Development	
60% Preliminary Plans	
LADOTD Review	
90% Preliminary Plans	
LADOTD Review	
Attend Plan-In-Hand Meeting	
100% Preliminary Plans	
LADOTD Review	
Preliminary Construction Cost Estimate	
Environmental Services	
Solicitation of Views	
Wetland Study & Findings Report	
Environmental Permits	
🐺 Right-of-Way Maps	
Property Survey	
Base Right-of-Way Maps (60% Final Maps)	
Joint Plan Review (JPR) Meeting with LADOTD	
Final Right-of-Way Maps	
Final Plan Development	
60% Final Plans	
LADOTD Review	
90% Final Plans	
LADOTD Review	
98% Final Plans for Plan Quantity Unit	
LADOTD Review	
PS&E Submittal	
Final Construction Cost Estimate	

<u>19. Workload:</u>

For all contracts where a firm on the team is a prime consultant or sub-consultant and where a) the consultant selection was made by DOTD, and b) a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

1) one of the team's firms is responsible for the performance of the work;

2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;

3) the work has not yet been performed and invoiced; and

4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
-	ľ			
	Survey	4400012667	Retainer Contract for Professional Surveying Services – Statewide	
		(L&A 18S008.00)	(Property Surveys and ROW Maps)	
Lazenby & Associates, Inc.		H.012033.5	T.O. #14: LA 143 & LA 594: Cross Bayou & Caney Creek Bridges,	\$20,847
			Ouachita Parish (30.00% Complete) Time Suspended	
		H.010616.5	T.O. #16: I-20: LA 544 Overpass Replacement, Lincoln Parish	\$11,913
			(60.00% Complete) Time Suspended	
		H.012842.5	T.O. #20: LA 3102 @ Larto Lake & LA 124 (Seg 2 & 3), Catahoula	\$49,879
			Parish (40.00% Complete) Time Suspended	
		H.008230.5	T.O. # 21: LA 838: Steep Bayou Bridge Replacement, Ouachita	\$9,697
			Parish (60.00% Complete) Time Suspended	
		H.012032.5	T.O. #22: LA 2: Bridges Near Mer Rouge, Morehouse & West	\$15,119
			Carroll Parishes (60.00% Complete) Time Suspended	
		4400012668	IDIQ Contract for Hydrographic Surveying Services – Statewide	
		(L&A 18S040.00	(Districts 04, 05, 08 & 58)	
		H.008768.5	T.O. #15 Hydrographic Survey Monitoring of Existing Bridge	\$65,371
			(25% Complete)	

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Lazenby & Associates, Inc.	Survey	4400015236	IDIQ Contract for Topographic Surveys – Statewide (Districts 04, 05, 08 & 58)	
		H.012541.5	T.O. #12: LA 594: Overpass – I-20, Ouachita Parish (85% Complete)	\$26,424
		H.012541.5	T.O. #15: LA 594: Overpass – I-20 (Additional) Ouachita Parish (85% Complete)	\$6,244
		H.011428.5	T.O. #16: Green acres to LA 72 Corridor Study Bossier Parish (0.0% Complete) No P.O. to Date	\$275,386
		4400017710 (L&A 19S056.00)	IDIQ Contract for Topographic Surveys - Statewide	
		H.015052.5	T.O. #1: I-20 Widening and Improvement (Vancil Road to LA 34) Ouachita Parish	\$393,871
		4400010714	IDIO Contract for Under complic Surgeons Statemide	
		(L&A 20S038.00)	(Districts 04, 05, 08 & 58)	
			No Task Order Issued To Date	N/A
	Road	440010428	Kansas Lane – Garrett Road Connector & I-20 Improvement,	\$17,583
		H.004774.5	Ouachita Parish (98% Complete)	
		(L&A 17E051.00)	(Road Design – Urban & Road Design – Controlled Access)	
	Survey		(we have no current survey work with DOTD)	\$0
	Burvey	H.014415	LA 352 Drainage Improvements	\$46.318
	Road	H.004791	Belle Chasse Bridge & Tunnel Replacement	\$5,307
Sigma Consulting Group, Inc.		H.003370	I-220/I-20 Interchange IMP & BAFB Access	\$30,000
		H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	\$1,655,178
		H.013797	LA 30: EBR PL – I-10 (Environmental Assessment)	\$92,955
		H.010652	LA 73: US 61 (airline) – Essen Lane	\$164,793
	Road, Bridge	H.002868	Ambassador Caffery & US 90 Interchange	\$512
	Bridge	4400019338	Rural Bridge Replacement Initiative Phase II (South)	
		H.012061	LA 1	\$83,661

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
	Bridge	Н 012565	ΙΔ 963	\$96 772
		H 012801		\$46,976
		H 014213	LA 700	\$90,881
		H 014215	LA 20	\$125,094
		H 014216	LA 682	\$176 853
		H.014241	LA 10	\$64,804
		H.014251	LA 422	\$71,307
		H.014252	LA 1054	\$51,014
		H.014253	LA 421	\$46.625
Sigma		H.014254	LA 955	\$211.943
Consulting		H.014256	LA 952	\$161.463
Group, Inc.		H.014257	LA 68	\$86.839
		H.014276	LA 975	\$68,450
		H.014278	LA 85	\$99,094
		H.014279	LA 35	\$74,181
	Environmental	H.004256.5	Leeville – Golden Meadow (Ph. 2 Permits)	\$214,603
	CE&I/OV	H.003003	I-10 (East Jct. I-49 to LA 328) Construction Support	\$4,312
		H.010601	I-10 (LA 328 – LA 347) Construction Support	\$2,536
		H.013897	Owner Verification Services for College Drive Flyover Ramp I-10/I-	\$54,368
			12 West	
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	\$4,959
		H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	\$52,436
		H.005168.2	New Orleans Rail Gateway Avondale EA	\$209,504
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$21,999
		H.012030.5	KCS RR Overpasses HBI	\$28,026
	CE&I / OV	H.007160	EBR Computerized Traffic Signal, Ph VB	\$58,309

20. Certifications/Licenses:

If the advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.

PLEASE SEE ATTACHED SHEETS.

Certificate of Completion

James Ellingburg

for completing the

Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3

Date:August 11 – 12, 2021Location:Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor



Joh M Sumber Authorized T

Prime Consultant: Lazenby & Associates, I

Certificate of Completion

Ryan Spillers

for completing the

Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3

Date:August 11 – 12, 2021Location:Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor



John 1

ige 67 of 85

Prime Consultant: Lazenby & Associates I

Certificate of Completion

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: Ju Location: Ba

June 4, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 4

ply Com

Authorized Instructor

Authorized Instructor

Authorized instructor



Page 68 of 85

Prime Consultant: Lazenby & Associates Inc

Certificate of Completion

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: Ju Location: E

June 11, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor



Page 69 of 85

Prime Consultant: Lazenby & Associates Inc

Certificate of Completion

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: Location:

September 10, 2018 Baton Rouge, Louisiana

Joy Colore



Professional Development Hours (PDHs) Awarded: 3

Jul Morizad instructor

Page 70 of 85

Prime Consultant. I azenhy & Associates Inc

Certificate of Completion

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: July Location: Bat

July 16, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 2

ply Com

Authorized Instructor

Authorized Instructor

Authorized instructor

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Prime Consultant: Lazenby & Associates Inc Contr

Contract No. 4400023942

Page 71 of 85

Certificate of Completion

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date:July 2Location:Baton

July 23, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3

ply Com

Authorized Instructor

Authorized Instructor

Authorized instructor



Page 72 of 85

Prime Consultant: Lazenby & Associates Inc
Certificate of Completion

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: Location:

October 15, 2018 Baton Rouge, Louisiana

poly form



Professional Development Hours (PDHs) Awarded: 3

Jul Morizad instructor

Page 73 of 85

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report Module 1

July 30, 2018 Date: Baton Rouge, Louisiana Location:

July John

ctor Authorized



Professional Development Hours (PDHs) Awarded: 2.5

nstructor Authorized instructor

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: Location:

August 6, 2018 Baton Rouge, Louisiana

ply form



Professional Development Hours (PDHs) Awarded: 3

Jul Morizad instructor

Page 75 of 85

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Prasanth Malisetty

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: Location:

October 29, 2018 Baton Rouge, Louisiana

ply form



Professional Development Hours (PDHs) Awarded: 3

Jul Morizad instructor

Page 76 of 85

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: Location:

November 5, 2018 Baton Rouge, Louisiana

Joly John

Authorized Instructor



Professional Development Hours (PDHs) Awarded: 2

John Jumbel

Authorized instructor

Page 77 of 85

Prime Consultant: Lazenby & Associates Inc

Certificate of Completion

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: Location: November 26, 2018 Baton Rouge, Louisiana

Joly John



Professional Development Hours (PDHs) Awarded: 3.5

Joh Jumbel

Page 78 of 85

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: Location: December 3, 2018 Baton Rouge, Louisiana

Joly John

Authorized Instructor



Professional Development Hours (PDHs) Awarded: 3

John Jumbel

Authorized instructor

Page 79 of 85

Prime Consultant: Lazenby & Associates Inc

Certificate of Completion

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 1

July 30, 2018 Date: Location:

Baton Rouge, Louisiana

Authorized Instructor Authorized Instructor Authorized instructor



Professional Development Hours (PDHs) Awarded: 2.5

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: Location:

August 6, 2018 Baton Rouge, Louisiana

Joly Colore



Professional Development Hours (PDHs) Awarded: 3

Jul Morizad instances

Page 81 of 85

Prime Consultant. I grenhy & Associates Inc

Certificate of Completion

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: Location:

October 29, 2018 Baton Rouge, Louisiana

Joly Colore

Authorized Instructor



Professional Development Hours (PDHs) Awarded: 3

Jut Porizod instructor

Authorized instructor

Page 87 of 85

Prime Consultant: Lazenby & Associates Inc

<u>21. QA/QC Plan and/or Work Plan:</u> If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Vectura Consulting Services, LLC	800 Innovation Park Drive,	Brin Ferlito,	225-223-6685
	Baton Rouge, LA 70820	bferlito@vecturacs.com	
Sigma Consulting Group, Inc.	10305 Airline Hwy.	Greg Sepeda	225-298-0800
	Baton Rouge, LA 70816	gsepeda@sigmacg.com	

(Add rows as needed)

23. Location: If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank.