

CONTRACT NO. 4400031920, STATE PROJECT NO. H.008069.5

PETERS ROAD BRIDGE & EXTENSION (PHASE 3) ROUTES: LA 1261 & LA 3017 JEFFERSON AND PLAQUEMINES PARISHES

PRESENTED TO: LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT (LADOTD)

MARCH 25, 2025

I-10 & I-12 College Dr Flyover Ramp Design-Buil

P

G.E.C., INC.

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.

1.	Contract Name as shown in the advertisement	PETERS ROAD BRIDGE & EXTENSION (PHASE 3) ROUTES: LA 1261 & LA 3017 JEFFERSON AND PLAQUEMINES PARISHES
2.	Contract Number(s) as shown in the advertisement	4400031920
3.	State Project Number(s), if shown in the advertisement	H.008069.5
4.	Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	G.E.C., Inc.
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0001917
6.	Prime consultant mailing address	8282 Goodwood Blvd., Baton Rouge, LA 70806
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8282 Goodwood Blvd., Baton Rouge, LA 70806
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Cary Bourgeois, PE, Senior Vice President, (225) 612-4121, cbourgeois@gecinc.com
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Cary Bourgeois, PE, Senior Vice President, (225) 612-4121, cbourgeois@gecinc.com

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

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.

Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Signature above shall be the same person listed in Section 9:

1 1 1 1 1 1 1 1 1 1	March	25,	2025
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Date:

FIRM(S):

N/A

FIRM(S)' %

12. Discipline Table

					DBE FIRM					DBE FIRM		
Discipline(s)	% of Overall Contract	G.E.C., Inc. (Prime)	ARCADIS U.S., INC.	Forte and Tablada, Inc.	Infinity Engineering Consultants, L.L.C.	C&M Associates, Inc. of Texas	Eustis Engineering L.L.C.	Ardaman & Associates, Inc.	NTB Associates, Inc.	Integrated Logistical Support, INC.	Coastal Engineering Solutions, LLC	Each Discipline must total to 100%
Road	25.000%	60.00%	6.00%	28.00%	6.00%							100%
Bridge	40.000%	100.00%										100%
Environmental	10.000%	98.00%									2.00%	100%
Traffic	10.000%	10.00%	90.00%									100%
Geotech	2.000%						75.00%	25.00%				100%
Survey	5.000%			100.00%								100%
Other (SUE)	2.000%								100.00%			100%
Other (Public Outreach)	3.000%	10.00%								90.00%		100%
Other (Tolling Study)	3.000%					100.00%						100%
Identify the per	centage of	work for the <u>a</u>	overall contra	<u>ct</u> to be perfo	ormed by the pr	ime consultan	t and each sub	o-consultant.				
Percent of Contract	100.00%	66.100%	10.500%	12.000%	1.500%	3.000%	1.500%	0.500%	2.000%	2.700%	0.200%	

13. Firm Size

		Number of personnel <u>committed</u> to	Total number of personnel available in
Firm name	DOTD Job Classification	this contract	this DOTD Job Classification (if needed)
	Engineer	12	13
	Engineer Intern	3	4
	Environmental Manager	1	1
	Environmental Pro	1	1
G.E.C., Inc.	Principal	3	4
	Supervisor - Eng	4	6
	Supervisor - Other	1	1
	Archaeologist	1	1
	Supervisor - Eng	3	4
	Principal	1	1
ARCADIS U.S., INC.	Engineer	2	5
	Engineer - Other	1	1
	Principal	1	4
	Supervisor - Eng	2	8
	Engineer	0	4
	Engineer Intern	6	10
	CADD Technician	2	3
	Senior Technician	1	2
Forte and Tablada Inc	Supervisor - Other	0	1
	Surveyor	4	7
	Administrative	1	3
	Party Chief	4	6
	Instrument Man	3	4
	Rodman	2	3
	Administrative	1	5
	Designer	2	6
Infinity	Drafter	1	4
20 Engineering	Engineer	4	11
TEARS Consultants	Engineer Intern	1	4
Infinity Engineering	Other (Engineering Graduate)	1	3
Consultants, L.L.C.	Principal	1	2
	Project Office Manager	1	1

	Principal	1	1
	Supervisor – Other	1	4
	Senior Technician	1	5
	Technician	1	11
oum Associates, inc.	Engineer - Other	0	4
C&M Associates, Inc. of Texas	Planner	0	2
	GIS Analyst	1	4
	Administrative	0	3
	Principal	2	3
	Supervisor - Eng	2	8
	Engineer	1	4
	Engineer Intern	1	5
	Engineering-Aide	2	8
\$	Accountant	1	4
EUSTIS	CADD Technician	1	1
Line line	Clerical	3	13
	Driller	1	7
Eustis Engineering L.L.C.	Geologist	1	2
	Inspector	6	15
	Inspector - Certified	1	1
	Supervisor - Other	2	8
	Technician	6	10
	Administrative	1	1
	Clerical	1	2
	Engineer	2	4
Ardaman	Engineer Intern	3	6
& Associates, Inc.	Principal	2	2
Ardaman & Associates, Inc.	Senior Technician	7	9
	Supervisor - Eng	3	3
	Supervisor - Other	2	2
	Technician	11	15

13. Firm Size

	Principal	1	1
	Engineer	1	1
	Surveyor	1	7
	Supervisor - Other	1	3
	Senior Technician	0	1
	CADD Technician	1	6
SURVEY, JESIGN, BUILU, SUCCEEU.	Technician	1	2
NTB Associates, Inc.	CADD Drafter	1	5
	Party Chief	1	18
	Instrument Man	1	7
	Rodman	1	7
Integrated Logistical Support, INC.	Other (Outreach)	2	6
COASTAL ENGINEERING SOLUTIONS, LLC	Biologist/Wetlands	1	1

14. Organizational Chart	DOTD		Arcadis F&T	Arcadis U.S., Inc. Forte & Tablada, Inc.	Ardaman NTBA	Ardaman & Associates, Inc.
Contract No. 4400031920 PETERS ROAD BRIDGE & EXTENSION (PHASE 3)			CM Eustis	Consultants, L.L.C. C&M Associates, Inc. Eustis Engineering, L.L.C.	Coastal	Support, Inc. Coastal Engineering Solutions, LLC
PRINCIPAL-IN-CHARGE	GEC			0 0		
Sherri LeBas, PE GEC						
	PROJECT MANAGER					
QA/QC	(MPR 1, 2) Cary Bourgeois, PE	GEC				
Megan Bourgeois, PE (geotechnical) Ardaman						
Keith Rebello, PhD, PE (bridge) GEC	ASSISTANT PROJECT MANAGER	-		PUBLIC OUT	REACH	
*• Thomas Swanson, PE, PTOE (traffic) GEC Mickey Prattini Jr., PE (electrical) GEC	(MPR 3) • Christopher Nipper, PE	GEC	lam Pete	Christian Tucker er Spencer, El		ILSI ILSI
ROAD DESIGN / DRAINAGE / HYDRAULICS	BRIDGE DESIGN			TF	AFFIC	
Jerome Lohmann, PE GEC	(MPR 4) Keith Rebello, PhD, PE	GEC		• Akhil Chauhan, PE, P	TOE, PTP, P	MP Arcadis
Christopher Nipper, PE GEC	Cary Bourgeois, PE	GEC		• Ari Deitch, PE, PTOE,	PTP, RSP	Arcadis
Logan Michel, PE GEC	Varaprasad Venkata, PE	GEC		 Kester Hollier, PE, PT 	OE	Arcadis
Drake Helton, PE GEC	Rachel Breaux, PE	GEC		 Max Aguirre, PhD, 	PE, PTOE, F	RSP ²¹ Arcadis
Jonathan Philley, El GEC	Hector Zuniga, El	GEC		 Tait Karlson, PE, PTO 	E	Arcadis
Jonathan Puls, PE GEC						i
Chad Bacas, PE, MBA F&T	SURVEYS / ROW MAPPING			тоци	NG STUDY	
• Tyler Branch, PE F&T						
Allison Schilling, PE F&I	 Bradley Holleman, PE, PLS 	F&T		(MPR 6) Jonathan Pag	an	CM
William J. Inomassie, PE Infinity	 Ross Wilson, PLS 	F&T		Manuel Sanchez		CM
Ricardo Contreras, PE Infinity	 Rachel Waldroup, PLS 	F&T		Fernando Escobar		CM
	 Jeremy Cormier, PLS 	F&T				1
ENVIRONMENTAL	Brent Campbell	F&T		NAVIGA	TION STUDY	
(MPR 5) • Bliss Bernard, PE GEC				Kevin Horn, PhD**		GEC
Nicole Forsyth, El GEC						!
Barry McCoy (wetlands, T&E) GEC	Brian Buckel, PE	GEC			CULE	
Lauran Switzer, RPA (cult. resources) Arcadis	Roland Maurin, PE	GEC			30E	
Luis velasquez, PE (air quality, hoise)ArcadisMike Schulze (permitting)Coastal	• Zachary Boylan, PE	GEC		Amy K. Schulze, PE, CF Patrick C. Staiano, PLS	М	NTBA I NTBA I
L	ELECTRICAL DESIGN & FAA PERMITTI	NG				
LEGEND	Tom Coerver Jr., PE	GEC		GEOTECHNICAL ENG	GINEERING (AS NEEDED)
(#) Fulfille MDP	Michael Chiasson, PE	GEC		Gwendolvn Sanders, P	E	Eustis
(#) Fullins WER	Luis Diaz, PE	GEC		Matt Morales. PE	-	Eustis
ITRC Modules 1-3 Training	Nicholas Montegut, El	GEC	l			
* nersonnel performing traffic engineering analysis and/or OC	L					
** Part-Time Employee						

15. Minimum Personnel Requirements

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 and discipline meeting MPR/certification & number (EX: PE # - CIVIL)	State of license	License / certification expiration date
1	Cary Bourgeois, PE	GEC	PE # 23414 - Civil	Louisiana	09/30/2025
2	Cary Bourgeois, PE	GEC	PE # 23414 - Civil	Louisiana	09/30/2025
3	Christopher Nipper, PE	GEC	PE # 43281 - Civil	Louisiana	09/30/2025
4	Keith Rebello, PhD, PE	GEC	PE # 24937 - Civil	Louisiana	03/31/2027
5	Bliss Bernard, PE	GEC	PE # 42709 - Civil	Louisiana	03/31/2027
6	Jonathan Pagan	CâM Associates, Inc.	N/A	N/A	N/A

16. Staff Experience

FIRM EMPLOYE	ED BY	G.E.C., Inc.		
NAME S	herri Le	Bas, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	8
TITLE S	enior Vi	ce President	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	31
DEGREE(S) / YE	EARS / SPE	CIALIZATION	B.S. / 1985 / Civil Engineering	
ACTIVE REGIST	RATION N	UMBER / STATE / EXPIRATION DATE	23844 / Louisiana / 03-31-2027	
YEAR REGISTER	red 19	90 DISCIPLINE	Civil Engineer, Environmental Engineer	
CONTRACT RO	LE(S) / BRI	EF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Principal-in-Charge	
EXPERIENCE DA (MM/YY-MM/Y	ATES YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
		Ms. LeBas is a Senior Vice President of GEC. programs during her career in Louisiana st Development (LADOTD), Ms. LeBas designe for the Change Management Program, Ass to 2003, Ms. LeBas managed projects funde of 2016, Ms. LeBas brought her skills and e required for infrastructure. Additionally, Ms with the best team possible to provide outs	She is a professional civil engineer with 38 years of experience in designing and managing numerous p ate government and private industry. During her 24.5 years at the Louisiana Department of Transpo ed and managed projects for a combined 14 years in the Road Design Section which led to serving as istant to the Secretary for Policy, Deputy Secretary and then Secretary for 6 years from 2010 to 2016. ed through Capital Outlay at the Louisiana State Division of Administration, Facility Planning and Con experience to GEC, routinely meeting with public officials and other stakeholders to discuss policy an s. LeBas discusses opportunities for teaming with other consulting firms in order to present and prov tanding services and deliverables.	rojects and rtation and a facilitator From 1998 trol. In May d resources vide a client
 H.004100 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: Baton Rouge, Louisiana. Assistant Project Manager - Ms. LeBas serves as Assistant Project Manager for this alternative delivery CMAR project overseeing the public outreach and context sensitive solutions and community connections for widening project through the heart of the urban area of Baton Rouge. As a liaison for the project, Ms. LeBas meets with residential and business own whose property is affected by the project, the public, public officials, and stakeholders, providing them with information regarding the project. Ms. LeBas develops and provides information for the development of graphics and project narratives for public meetings, the I10BR.Com provides to the Design Quality Manual, Project Management Plan, and Initial Financial Plan. She provides management oversight of the design elements. She provides oversight of the document control and manages the project's Decision Log. Ms. LeBas is managing the NEP/ overall design elements. She provides oversight of the document control and manages the project's Decision Log. Ms. LeBas is managing the NEP/ overall design elements. She provides oversight of the document control and manages the project's Decision Log. Ms. LeBas is managing the NEP/ overall design elements. She provides oversight of the document control and manages the project's Decision Log. Ms. LeBas is managing the NEP/ overall design elements. She provides oversight of the document control and manages the project's Decision Log. Ms. LeBas is managing the NEP/ overall design elements. She provides oversight of the document control and manages the project's Decision Log. Ms. LeBas is managing the NEP/ overall design elements. She provides oversight of the document control and manages the project's Decision Log. 				
08/20-Pro	esent PROJECT	H.013897 / I-10 & I-12 COLLEGE DR FLYO of the quality design reviews for the Boh B Quality Manual for the design reviews for I	DVER RAMP DESIGN-BUILD: Baton Rouge, LA. <i>Quality Design Manager</i> - Ms. LeBas is providing m Bros/GEC Design Build team. For this Design-Build project, GEC oversees the processes included in roadways, bridges, lighting, intelligent transportation systems, drainage and noisewalls.	anagement the Design
01/24-Pr	esent	H.003931.6 / CALCASIEU RIVER BRIDGE Team, Ms. LeBas is assisting with the activ scope. This involves coordinating meetings Owner Verification Team.	(HBI) (CE&I), ROUTE I-10: Calcasieu Parish, LA. <i>Principal-in-Charge</i> - As the Principal of the Owner vities aimed at LADOTD reaching an agreement with the Developer on acceptable modifications to s and collaborating with the LADOTD Project Manager, LADOTD staff, the Developer, and the mem	Verification the project bers of the
2016-Pre	esent	ROAD TRANSFER PROGRAM MANAGER Statewide LADOTD Road Transfer Program. who is stationed at LADOTD Headquarters	MENT: Statewide, LA. <i>Principal-in-Charge</i> - Ms. LeBas serves as a resource to GEC's Program Man . Ms. LeBas provides feedback, is the direct link for communication and service between GEC's Proje and GEC's staff, and attends bi-monthly status meetings with the LADOTD Road Transfer Team.	ager of the ct Manager

FIRM EMPLOYED BY	G.E.C., Inc.
NAME Sherri Le	eBas, PE Continued Resume
07/95-01/98	H.004562 / AMBASSADOR DRIVE EXTENSION (LA 339-US 90): Lafayette Parish, LA. <i>Project Manager LADOTD Road Design Section -</i> Ms. LeBas served as the roadway project manager for the line and grade study of various alignments during the Environmental Assessment of this project. The alignments included an alignment along La Nouvelle Road as well as south of the golf course on new alignment and were developed in-house. Ms. LeBas's design squad developed the displays for the Public Meetings and Ms. LeBas lead the Public Meetings answering questions from the media for this project during this line and grade and environmental phase of the project.
09/91-01/98	S.P. NO. 013-12-0032 & 013-12-0039/US 190 (LA 22 – BAYOU CASTINE) AND US 190 (BAYOU CASTINE – SOUTHEAST LA STATE HOSPITAL): St. <i>Tammany Parish, LA. Project Manager LADOTD Road Design Section</i> - Ms. LeBas served as the project manager for the widening project of US 190 during the environmental assessment and line and grade and the preliminary plan phases of this project. The environmental assessment phase with line and grade involved reviewing several different alternatives, which were prepared in-house by the design squad under the leadership of Ms. LeBas. Ms. LeBas presented the alternatives at the first public meeting in September 1992 at the City of Mandeville City Hall. Ms. LeBas met with public officials, civic associations, and business owners discussing the project features and impacts. Once the preferred alternative was chosen and a FONSI obtained, Ms. LeBas managed the consultant design of the preliminary plan development coordinating the plan development with other design sections at LADOTD.
03/10-01/16	LADOTD: Baton Rouge, LA. <i>Secretary</i> - Ms. LeBas set the vision and led LADOTD in the delivery of the \$1.8 Billion annual transportation infrastructure capital and operating program. She developed and discussed transportation policy, issues, feedback, future planning with stakeholders, media, citizens and local, state and national public and elected officials. She testified and provided information such as project details, policy issues, funding, etc. at legislative hearings. Ms. LeBas provided the leadership and direction of all outward communication of the LADOTD to the media, stakeholders, and the public. She pursued and obtained funding working with state and federal officials for progressing large infrastructure projects. She has the skills and credentials to provide design guidance, work with staff to develop solutions to some of the most complicated design policy issues. Some notable projects that required her leadership included the funding, design and construction of I-49 from I-220 to the Arkansas State line which included the 2019 ACEC Award Winning I-220/I-49 Interchange included aesthetic features such as the locally designed column motifs and decorative lighting; LA 1 from Leeville to Fourchon TIFIA refinancing, Design Build projects on I-12 in Livingston Parish as well as two Design Build Interchange projects on US 90 (Future I-49). Ms. LeBas worked with staff to develop press releases for public notices, project activities, and notifications during emergencies. In addition, Ms. LeBas often provided information to the media on live TV or recorded interviews.
05/05 – 03/10	LADOTD: Baton Rouge, LA. Change Management Facilitator (1 year); Assistant to the Secretary of Policy (2 years); Deputy Secretary (2 years) - Ms. LeBas was a facilitator on the Change Management Team with today is referred to as Quality Continuous Improvement (QCIP). She facilitated teams consisting of LADOTD staff, consultants and other stakeholders for utility relocations, project management and consultant services. As Assistant Secretary for Policy, Ms. LeBas worked with staff and the Secretary to develop the \$1.2 Billion list of roadway projects that were funded with State surplus dollars in 2007, 2008, and 2009. She developed PowerPoints for the Secretary's communication to the legislature. She served as the program manager for this \$1.2 Billion surplus program, scheduling projects, managing the budget and working through issues in order to get the program delivered on time and within budget. As Deputy Secretary, Ms. LeBas served as the program manager for the \$430 million American Recovery and Reinvestment Act (ARRA) working with LADOTD staff to deliver the projects within the federally set deadlines.
09/03 – 05/05	THE TRANSPORTATION MODEL FOR ECONOMIC DEVELOPMENT (TIMED) PROGRAM: Statewide, LA. Assistant to the TIMED Program Manager, LADOTD Road Design Section - Ms. LeBas served as Assistant TIMED Program Manager for the \$5.2 Billion Program. She was responsible for the financials working with LADOTD administration, and consultant. She reviewed the program changes, change orders, total program costs from design through construction, management and assistance of the consultant's plan delivery and construction schedule. She provided project status information to the LADOTD Communications Director for LADOTD's communication to the legislature, public and stakeholders.

Fulfills MPRs 1 & 2

FIRM EMPI	LOYED BY	G.E.C., Ir	ıc.		
NAME	Cary Bou	rgeois, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	40
TITLE	Senior Vi	ce Preside	ent	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S)	/ YEARS / SPE	CIALIZATION		B.S. / 1983 / Civil Engineering	
ACTIVE REG	GISTRATION N	UMBER / STA	TE / EXPIRATION DATE	23414 / Louisiana / 09-30-2025	
YEAR REGIS	STERED 19	89	DISCIPLINE	Civil Engineer	
CONTRACT	ROLE(S) / BRI	EF DESCRIPT	ON OF RESPONSIBILITIES	Role on this Project: Project Manager, Bridge Design	
EXPERIENC (MM/YY–N	CE DATES 1M/YY)	EXPERIEN DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
		Mr. Bour has more Design a roadway for Highvay as well a	geois is GEC's Senior Vice Presiden e than 38 years of experience perfo nd Evaluation Manual (BDEM), and s and bridge structures. He is thoro vay Bridges, Manual on Uniform T Signs, Luminaries and Traffic Signa s general construction engineering	t involved in supervising activities and performing design services on several large-scale projects. Mr rming bridge design services in accordance with the latest AASHTO LRFD Bridge Design Specifications, all Bridge Design Technical Memoranda. He has valuable experience in the design and geometry asso ughly familiar with AASHTO Policy on Geometric Design of Highways and Streets, AASHTO Standard Sp fraffic Control Devices, the Highway Capacity Manual and the Standard Specifications for Structural ils. As Principal-in-Charge, he has managed design and development, and supervision of plans and spe and inspection for road and bridge design projects similar in scope to the proposed Peters Road Bridge	: Bourgeois , the Bridge iciated with ecifications Support for ecifications, ge.
06/1 SECTION	7-12/21 <mark>17 project</mark>	H.00307 accordar bridges a informed stressed bridge s	4 / I-10 WIDENING, WILLIAMS ace with LADOTD's Roadway Desi and ramps for this highly congest decision on widen or replace the concrete girder spans and steel g pecs.	TO VETERANS: Jefferson Parish, LA. <i>Principal</i> -in-Charge/QA/QC - Mr. Bourgeois oversaw road gn Procedures and Details Manual , along with the superstructure and substructure load rating ted 2.28-mile urban interstate. The extensive load rating and documentation, allowed LADOTD to existing bridges. The data supported the replacement of the bridges. GEC designed concrete slab girder spans . All pre-stressed girders were Louisiana (LG) girders designed in accordance with AA	I design in for existing to make an spans, pre- SHTO LRFD
08/20 SECTION	-Present 17 PROJECT	H.01389 responsi ramps th bridge. in accor roadway	7 / I-10 & I-12 COLLEGE DR. FL ble for the overall design and o hat are separated from the merg He oversaw the completion of S dance with LADOTD standards. and maintenance of traffic plan	YOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. <i>Design Manager</i> - Mr. B design quality control of this \$53,000,000 urban freeway transportation project which will p ge of I-10 and I-12. To accomplish this, I-12 westbound will be re-routed under a rebuilt I-10 form Water Pollution Prevention Plans (SWPPP) and permitting for all highway construction He also oversaw preparation of bridge plans including a 380' long two span continuous stars, signing plans, retaining walls, noise barriers, lighting plans, and bridge structural rehabilita	ourgeois is rovide exit westbound segments teel girder, tion plans.
12/9 SECTION	3-08/12 17 PROJECT	700-28-0 project p approact An Envir girder ur	004 / US 71/165 FORT BUHLOW provides for the construction of a n roadways . The project began wit onmental Assessment was develo it over the Red River, supported o	BRIDGE AND APPROACHES: Alexandria/Pineville, LA. <i>Principal</i> -in-Charge - This 2.28-mile-long r new six-lane bridge over the Red River, access ramps for I-49 and local traffic, KCS railroad over than Engineering Report consisting of a line and grade corridor study, traffic study and bridge feasil oped concurrent with the engineering study. The project features a 1,000' three-span continuous n piers found in the river. (12/93-08/12)	nulti-phase erpass and bility study. steel plate
09/20 SECTION	-Present 17 PROJECT	H.00410 the desig Cantileve high fill a Signs as City Park the proje	0.5 / I-10: LA 415 TO ESSEN LANE on of the new 550' long WB Washinger supported on drilled shafts, tang reas. He also managed the design part of the ITS portion of this project Lake Bridge and emphasize the G ect, along with lighting design for t	ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. <i>Design Manager</i> - Mr. Bourgeois is a ngton St (Lorri Burgess Ave) Off Ramp bridge. He managed the design of multiple types of retaining a ent drilled shaft walls and concrete faced steel sheet piles) and Load Transfer Platforms to mitigate see of a two-span truss spanning a future widened I-10 near Dalrymple drive to support multiple Dynam ect. Additionally, Mr. Bourgeois oversaw an enhancement lighting study to incorporate aesthetic ligh reenway path. He currently oversees electrical design of GEC is providing the full interstate lighting the multi-use greenway path running underneath I-10 and the lighting for four (4) new roundabouts	supervising walls (MSE, ttlement in tic Message nting at the ; design for 5.

FIRM EMPLOYED BY	G.E.C., Inc.
NAME Cary Bou	rgeois, PE Continued Resume
02/24-Present SECTION 17 PROJECT	H.015372 / WILLOW STREET AREA IMPROVEMENTS: Lafayette Parish, LA. <i>Principal in Charge</i> - This project includes preliminary plans for the redesign of local roads adjacent to Willow St. and Evangeline Thruway, and the redesign of Willow St. itself. The local roads included the redesign of two frontage roads that run parallel with Evangeline Thruway; the redesign and extension of an existing side street; and the widening and partial redesign of Willow St. Mr. Bourgeois oversees engineering design staff providing the geometry, both horizontal and vertical, for all the proposed roadways, hydraulic analysis and design, and hydraulic calculations and report, and construction plans for the project, including quantities required for construction.
09/20-Present	BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA. <i>Principal-</i> in-Charge/QA/QC - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Mr. Bourgeois oversaw an investigation of the existing bridge over Dawson Creek to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM. This investigation started with an NBIS bridge inspection to determine Condition Ratings for the bridge superstructure, substructure, and piles. A Bridge Load Rating was then carried out based on the AASHTO Manual of Bridge Evaluation and the LADOTD BDEM. Based on the load rating, GEC recommended that the existing bridge be replaced. He also oversaw the preliminary design for the replacement bridge as well as the design study for a six-lane, curb and gutter roadway with pedestrian facilities and subsurface drainage .
03/95-06/10	450-15-0089 / ROUTE I-10, CAUSEWAY BLVD TO 17TH STREET CANAL: Metairie, LA. <i>Project Manager/Engineer-of-Record/Structural Engineer</i> - Mr. Bourgeois performed Quality Assurance and project management on this project. He specifically acted as QA for all disciplines involved including surveying, structures/ bridge design , electrical & controls design and civil engineering design. Project consisted of widening while under traffic of 1.64 miles of urban interstate highway from six to 10 lanes with roadway and bridges. He performed PPC girder layout and design and performed the design check of a two-span (425' total length) continuous steel girder with integral steel intermediate bent.
07/15-Present	H.004273.5 / I-49 CONNECTOR: Lafayette, LA. <i>Principal in Charge</i> - This project in District 03 includes bridge design & construction of a freeway with accompanying interchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles. Mr. Bourgeois oversees the GEC design staff.
03/91-Present	GNOEC LAKE PONTCHARTRAIN CAUSEWAY, CONSULTING ENGINEER: St Tammany and Jefferson Parishes, LA. <i>Principal-in-Charge</i> - GEC has served as Consulting Engineer for GNOEC since 1991 performing Trust Indenture Services in accordance with the GNOEC General Bond Resolution. Mr. Bourgeois has been associated with the project since the selection of GEC as Consulting Engineer and has served as Project Manager for over 10 years. In this time GEC has designed and implemented over \$200,000,000 in improvements to the GNOEC system. Our responsibilities have included: recommendations for operations and maintenance of Lake Pontchartrain Causeway, review of the operating budget, emergency response, inspection and reporting, annual physical condition inspection in accordance with National Bridge Inspection Standards, planning and scheduling of future GNOEC repair and improvement projects, review of Toll Plaza configurations and toll system operation, preparation of construction contract plans, specifications and estimates for various repair and improvement projects, and construction inspection and shop drawing review.
07/09-06/12	U.S. ARMY CORPS OF ENGINEERS, LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY, HURRICANE PROTECTION PROJECT LPV 17.2, BRIDGE ABUTMENT AND FLOODWALL TIE-INS AT CAUSEWAY BRIDGE: Metairie, LA. Overall Project Manager - This project was located in Jefferson Parish, Louisiana and was part of the Lake Pontchartrain and Vicinity, New Orleans, Louisiana, Hurricane Protection Project. This reach consisted of levees, floodwalls, crib walls, Causeway Boulevard and other miscellaneous access points. The designs were intended to bring the hurricane protection to the Phase II 100-year level. The professional services required of GEC included detailed engineering and design (E&D), preparation of a Design Report (DR), preparation of plans and specifications (P&S), and E&D support during advertisement.
08/23-Present	44-25040 / IIJA OFF-SYSTEM BRIDGE PROGRAM, DISTRICT 61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Baton Rouge, Ascension, and Assumption Parishes, LA. <i>Principal-in-Charge</i> - Projects include the design of a bridge spot replacement of off-system bridges. The design is in accordance with the Federal Aid Off-System Highway Bridge Program. Mr. Bourgeois is the principal-in-charge of this project.

Fulfills MPR 3

FIRM EMP	LOYED BY	G.E.C., Inc.			
NAME	Christop	ner Nipper, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	8
TITLE	Professio	nal Civil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2
DEGREE(S)) / YEARS / SPEC	CIALIZATION	B.S. / 2014 / Civil Eng	gineering	
ACTIVE RE	GISTRATION N	UMBER / STATE / EXPIRATION DATE	43281 / Louisiana / C	09-30-2025	
YEAR REGI	ISTERED 20	19 DISCIPLINE	Civil Engineer		
CONTRAC	T ROLE(S) / BRII	EF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Assistant Project Manager, Road Design, Drainage	
EXPERIEN (MM/YY-N	CE DATES MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT SPECIFIED IN THE APPLIC	Γ; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
		Mr. Nipper has 10 years of experience pro- improvement projects in accordance with a design professionals and coordinating with completed milestones in Microsoft Project a US 167 Interchange at Willow St, part of th plans for roadway projects in accordance w Manual, the AASHTO Highway Safety Man hydraulic analysis and design of drainage f He is also very familiar with AASHTO stando Nipper has also completed Modules 1-3 of t registered in the state of Louisiana, with mo	viding preliminary plar the latest LADOTD and h sub-consultants. Mr. nd/or Primavera 6. He e I-49 Connector projec vith Louisiana Standard ual, ASTM Standards, features for roadway co ards and guidelines and he Traffic Engineering P ore than five years of e	In and cost estimates for the design and development of construction plans for AASHTO standards. This includes management of project team members, inc Nipper has developed project schedules, starting from NTP, continuously up has served in a project manager role for a number of recent LADOTD projects, in ct. In, addition, Mr. Nipper has directed engineering staff for the completion of Specifications for Highways and Bridges, DOTD's Roadway Design Procedures and DOTD's Pavement PRR Minimum Design Guidelines. In addition, Mr. Nipp onstruction projects in accordance with the current edition of DOTD's Hydraul d has developed Transportation Management Plans for roadway construction p Process and Report Course offered by LTRC. He fulfills MPR 3 as a professional civ xperience in responsible charge of roadway design.	or roadway Iuding GEC dating with Icluding the preliminary and Details er provides ics Manual. Irojects. Mr. vil engineer,
02/24 SECTION	4-Present I 17 PROJECT	H.015372 / WILLOW STREET AREA IMP adjacent to Willow St. and Evangeline Thr run parallel with Evangeline Thruway; the project's preliminary plans , Mr. Nipper we responsible for the hydraulic analysis and for the project, and calculated the quantiti	ROVEMENTS: Lafayer ruway, and the redesig redesign and extensio as responsible for the design, and developed es required for constru	tte Parish, LA. <i>Road Design Engineer</i> - This project involved the redesign of gn of Willow St. itself. The local roads included the redesign of two frontage on of an existing side street; and the widening and partial redesign of Willow geometry, both horizontal and vertical, for all the proposed roadways. Mr. I d the hydraulic calculations and report. Mr. Nipper also developed the constru- uction.	local roads roads that St. For the Nipper was iction plans
06/17 SECTION	7-Present	H.003074, I-10 WIDENING, WILLIAMS To existing interstate and the widening/replat of the proposed bridge decks, the westbout with final plans in accordance with LADOT	O VETERANS: Jefferson acement of bridges to and proposed bridge ver D's Roadway Design P	on Parish, LA. Road Design - Project included the design of the addition of a accommodate the additional lane. Mr. Nipper was responsible for the hydra ertical curve, and for calculating elevations along bridge bents and girders. He Procedures and Details Manual which are more than 95% complete.	lane to the ulic design is assisting
02/20 SECTION	D-Present	H.013897, I-10 & I-12 COLLEGE DR FLYC project involved the redesign of the I-10 v existing I-12 EB lanes, and the existing I-1 lanes. Separate dedicated off ramps to Col the ongoing interstate widening project, a hydraulic analysis and design for the entir quantities for all of the roadway and hydra	OVER RAMP DESIGN WB/I-12 WB merger, a LO WB bridge over I-1 lege Dr. were provided nd developed all of th e project, and develop ulic portions of the pro	-BUILD PROJECT: East Baton Rouge Parish, LA. Lead Roadway Design England the College Dr. Off Ramp. The existing I-12 WB was realigned to run alor 2 EB was raised, widened, and lengthened to provide room for the realigned from I-10 WB and I-12 WB. Mr. Nipper has completed all geometric roadway be roadway construction plans, including MOT plans. Mr. Nipper was responsed the hydraulic calculations and report. Mr. Nipper was also responsible for oject.	neer - This ongside the ed I-12 WB / design for ible for the calculating
04/1	9-05/20	H.013542 / CHEVELLE DRIVE AND SARAS provided all investigations, preliminary pla final construction contract plans for the re in East Baton Rouge Parish. Mr. Nipper pro	OTA DRIVE BRIDGE R ans and final plans for placement of the Chev vided horizontal and v	EPLACEMENTS: East Baton Rouge Parish, LA. Lead Roadway Design Engineer - roadway design in accordance with LADOTD and AASHTO standards, and prevelle Drive and Sarasota Drive Bridges, which included design of the approach rertical alignment for roadway design and a hydraulic analysis .	Mr. Nipper paration of roadways ,

FIRM EMPLOYED BY	G.E.C., Inc.
NAME Christoph	er Nipper, PE Continued Resume
09/20-Present	H.004100 / I-10: LA 415 TO ESSEN LANE ON I-10 AND I-12: East/West Baton Rouge Parish, LA. Road Design Engineer - For the widening of I-10 westbound and eastbound from the Mississippi River Bridge to the I-10/I-12 split, Mr. Nipper provided both the vertical and horizontal geometry, for the retaining walls needed along the project corridor and was responsible for developing plan and profile sheets for retaining walls. He was also responsible for redesign of the Perkins Road overpass area which includes realignment of an existing local roadway, implementing new parking areas and pedestrian facilities, design of new subsurface drainage systems, and quantities associated with the Perkins Rd overpass redesign.
08/23-Present	44-25040 / IIJA OFF-SYSTEM BRIDGE PROGRAM, DISTRICT 61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Baton Rouge, Ascension, and Assumption Parishes, LA. <i>Project Manager & Road Design Engineer</i> - This project involved the spot replacement of 13 bridges across seven Parishes. Mr. Nipper was responsible for managing design for all 13 bridges. He also designed several of the bridges, including all vertical and horizontal geometry required. Other tasks performed on these bridges included designing required guard rail, performing the hydraulic analysis and developing hydraulic reports, and establishing limits for required right-of-way. He also developed construction plans and calculated quantities required for construction.
09/19-04/24	LASAFE AIRLINE AND MAIN COMPLETE STREETS: LaPlace, LA. <i>Road Design Engineer</i> - GEC designed a shared use path to accommodate pedestrians and bicyclists, improve accessibility and mobility, and provide curb bump outs to reduce the crosswalk distances and eliminate parking within the vicinity of the crosswalks to improve sight distance of pedestrians at the crossings. The corridor utilizes landscaped bioswales to capture and slow runoff while simultaneously providing beautification of the area. Main St. was redesigned to accommodate on street parking, sidewalks were added down the entire project corridor on both sides, and bicycle lanes were added as well. Mr. Nipper provided the vertical and horizontal alignments for the project, as well as the design for Main St. The reduced travel lane widths, replacing the shoulder with a bike lane, and constructing parallel parking, curbing, sidewalks, and landscaping helped to provide a traffic calming effect to keep vehicle speeds lower. He provided the hydraulic analysis needed to convert existing open ditches along the project into subsurface drainage systems to capture and slow runoff. Mr. Nipper also provided the estimated quantities and cost estimate. The project, currently under construction, utilized the LADOTD Roadway Design Procedures and Details Manual.
06/17-10/18	H.012783 / WB VETERANS, SEVERN AVE. – CLEARVIEW PKWY.: Jefferson Parish, LA. Co-Designer – This project involved the milling and overlay of Veterans Blvd. Two new drainage systems were also designed to reduce ponding along the road way. Mr. Nipper was involved with checking the design of the drainage systems, along with the final design of the roadway typical sections. He also calculated quantities and estimated costs associated with the project.
12/23-04/24	NORTH CAUSEWAY APPROACH ROAD OVERLAY: Mandeville, LA. <i>Road Design Engineer</i> - This project involved the rehabilitation of an existing roadway for the Greater New Orleans Expressway Commission. The rehabilitation included milling and overlaying the existing roadway, installing new pavement markers, and redesigning the existing guardrail in order to meet current safety standards. Mr. Nipper was responsible for the development of the construction plans, the design of the new guardrail, and calculating quantities.
09/20-Present	BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA. <i>Road Design Engineer</i> - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction, a 10-ft. wide shared use path on the west side, a 5-ft. wide sidewalk on the east side, painted bike lanes, roadway markings, flashing beacons, bus stops, refuge islands, roadway warning lights, high visibility crosswalks, and planting buffers for improved pedestrian safety, accessibility, and mobility to area facilities. The project includes replacement of existing bridges at Dawson Creek. Mr. Nipper assisted in preparing the drainage map depicting existing conditions for the 9,730-acre drainage area. Mr. Nipper also developed the soil map for the drainage area and computed the curve number and associated flow through Dawson Creek.
02/19-07/20	ST. TAMMANY PARISH GOVERNMENT, I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA. Road Design Engineer- The project included the replacement of two slab span bridges, Mr. Nipper was responsible for the vertical alignment, proposed length of the bridges, placement of the new bridges , and guardrail design. Mr. Nipper designed the new roadway approaches to the new bridge and calculated all of the quantities and estimated the construction cost for the project.
2018	US 90 (FUTURE I-49 SOUTH), LA 318 INTERCHANGE, ROUTE US 90: St Mary Parish, LA. <i>QA/QC</i> - GEC was the Owner Verification Firm (OVF) for this Design-Build Project, which includes the CE&I, right-of-way acquisition, and utility relocation. Mr. Nipper was involved in the QA/QC of the construction plans. He checked quantities, and verified that elements of the design met LADOTD standards.

FIRM EMPLO	OYED BY	Ardaman & Associates, Inc.		
NAME	Megan B	ourgeois, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	18
TITLE	Project Ei	ngineer / Assistant Branch Manager	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S) /	YEARS / SPEC	TALIZATION	B.S. / 2006 / Civil Engineering	
ACTIVE REGI	STRATION NU	JMBER / STATE / EXPIRATION DATE	36725 / Louisiana / 03-31-2026	
YEAR REGIST	TERED 20	DISCIPLINE	Civil Engineer	
CONTRACT R	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Geotech QA/QC	
EXPERIENCE (MM/YY–MM	DATES //YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
18 years of experience 18 years of experience Ms. Bourgeois has more than 18 years of slope stability (embankment and excavation She has managed numerous geotechnical program manager for many LADOTD project engineering laboratory in Baton Rouge. In ensures appropriate protocol is followed a		Ms. Bourgeois has more than 18 years of e slope stability (embankment and excavation She has managed numerous geotechnical program manager for many LADOTD project engineering laboratory in Baton Rouge. In ensures appropriate protocol is followed an	experience with shallow foundations, embankment settlement, pile and drilled shaft foundations, LF on), pipeline and pump station recommendations, geotechnical instrumentation, and construction r investigations and design evaluations, managed laboratory testing programs, while also serving as its for bridges and roadways throughout Louisiana. Ms. Bourgeois also serves as the director of our ge this role, she supervises the laboratory manager, oversees testing, provides guidance to laboratory and deadlines are met in addition to provide training material and maintaining AASHTO certifications	<pre> FD design, nonitoring. Ardaman's cotechnical y staff, and .</pre>
10/09-C	Ongoing	SP NO. H.004646.5 / I-20 MISSISSIPPI RI technical needs, high visibility project. She geotechnical engineers, geohydrologist, in comprehensive laboratory testing program of shifting creating movement in the bridg determination of mineralogy, x-ray scannin residual angles of critical strata. She was in Casagrande type piezometers, In-place incl drawdown analyses, slope stability analyse analysis and design report.	VER BRIDGE REVIEW: Vicksburg, MS. Project Manager. She managed this multi-million-dollar, hig e managed a highly technical team including academia, outside experts, including internationally strumentation specialists, and 3-D geotechnical modeling experts. She managed and personally and was involved in refining the geotechnical site characterization for the bank/bluff where there was ge structure. The specialized testing, she personally performed or managed included x-ray diffract g of unextruded samples to identify existing shearing plane, stress-reversal direct shear tests to dete strumental in designing the geotechnical instrumentation for this project including vibrating wire pi inometers, SAA inclinometers, and traditional inclinometers. In addition, Ms. Bourgeois performed se s, evaluation of remedial measures, and developed technically feasible solutions. Co-authored the ge	h risk, high recognized oversaw a as evidence ion for the ermine true ezometers, eepage and eotechnical
10/18-	-06/21	SP NO. H.000263 / CHEF MENTEUR PASS field investigation program including perfo flow water. Ms. Bourgeois also managed la and embankments, oversaw the field resist	BRIDGE & APPROACH: Orleans Parish, LA. Project Manager. Managed and oversaw all aspects of a rming 26 deep soil borings and 12 CPT soundings, including borings over 200 feet in over 80 feet de aboratory testing program to provide geotechnical characterization data for use in design of deep for the testing program, and developed the data report.	n extensive eep of high oundations
08/08 -	- 12/13	SP NOS. 700-09-0166 & H.003886.5 / I-49 extensive laboratory testing program with earth retaining structures and culverts.	9 NORTH PHASE II: Caddo Parish, LA. Laboratory Director/Assistant Project Engineer. Closely coor an aggressive schedule to provide geotechnical characterization data for use in design of deep for	dinated an oundations,
07/15-C	Ongoing	SP NO. H.004273.5 / I-49 CONNECTOR (L Assisting the Program Manager in overse structures that will include pile supported a test programs, and earth retaining structur shallow borings, and CPT soundings. Ms. B	AFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA. Project eing the geotechnical investigation and design of the 5 miles of freeway consisting of a 3.5-mil approach slabs, pile foundations, slope stability, embankment settlement, pavement design, advance res. Overseeing laboratory program which will include a total of more than 400 borings including de ourgeois is the project lead to develop the Geotechnical Investigation and Design Report.	t Engineer. le elevated ed pile load ep borings,
10/14-	-12/16	SP NO. H.010601.5 / I-10 WIDENING (E. Jo investigation which included 44 deep borin data report for the widening of the nine ex	C T. I-49 TO LA 328): St. Martin Parish, LA. Project Engineer. Managed and provided oversight for the ge gs and 25 cone penetrometer (CPT) soundings, associated laboratory testing, and preparation of a ge isting structures along I-10 between I-49 to LA 328 spanning approximately 7 miles.	eotechnical eotechnical

FIRM EMPLOYED BY	Ardaman & Associates, Inc.
NAME Megan Bo	Continued Resume
05/06-12/11	SP NO. 700-29-0112 & 700-29-0130 / LA 1 – PHASES 1 & 2: Lafourche Parish, LA. Project Engineer. This project is the second phase of the 17-mile elevated highway spanning from Golden Meadow to Fourchon. Ms. Bourgeois directed the laboratory testing program to ensure strict adherence to LADOTD standards and managed the drilling operations which included deep borings and CPT soundings in the coastal marshes via air-boat mounted equipment. She oversaw the completion of over 70 soil boring logs and approximately 300 CPT sounding logs for use in design of pile foundations.
04/21-Ongoing	SP NOS. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Project Engineer. Leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks.
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA. Project Manager. Managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. A majority of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. Ms. Bourgeois also managed and oversaw the laboratory testing program, processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads.
07/21-Ongoing	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR), Baton Rouge Parish, LA. Project Engineer. Leads technical reviews pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. This is a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles.

Fulfills MPR 4

FIRM EMPL	OYED BY	G.E.C., Inc.			
NAME	Keith Reb	ello, PhD, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	26	
TITLE	Senior Pro	ofessional Civil Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	8	
DEGREE(S)	/ YEARS / SPEC	IALIZATION	BS / 1983 / Civil Engineering; MS / 1986 / Civil Engineering; PhD / 1990 / Civil Engineering		
ACTIVE REG	SISTRATION NU	JMBER / STATE / EXPIRATION DATE	24937 / Louisiana / 03-31-2027		
YEAR REGIS	STERED 199	J2 DISCIPLINE	Civil Engineer		
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Bridge Design, QA/QC		
EXPERIENC (MM/YY–M	e dates M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE E SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE	
		Dr. Rebello has 32 years of structural engined research work on non-linear deformation by complex interstate and highway bridges (r treatment facilities, hurricane protection sy MBE requirements and performed ratings experience performing bridge design servic Manual (BDEM), and all Bridge Design Tech	ering experience designing cast-in-place slab spans and precast prestressed (LG type) girder bridges. He ehavior of pre-stressed concrete bridges. He has designed and managed a variety of structural projec new, replacement, rehabilitation and widening), retaining walls, noise walls, buildings, water and v ystems & hydraulic structures. He has experience in rating of bridges in accordance with LADOTD an using AASHTOWare Bridge Rating (Virtis) software and finite element analysis where required. Dr. H ces in accordance with the latest AASHTO LRFD Bridge Design Specifications, the Bridge Design and nnical Memoranda.	performed ts involving vastewater nd AASHTO Rebello has Evaluation	
08/05 SECTION	08/05-07/13 SECTION 17 PROJECT 08/05-07/13 08/05-07/13 08/05-07/13 08/05-07/13 08/05-07/13 08/05-07/13 00/1 2 PROJECT 00/1 2 PROJECT 00/2 8-0004 / US 71/165 FORT BUHLOW BRIDGE AND APPROACHES: Alexandria/Pineville, LA. Structural Engineer - Dr. Rebello performed prelimina design of a new 0.6-mile bridge spanning the Red River. He developed alternative designs employing pre-stressed concrete and steel girder spans ar segmental concrete box girders spans. He prepared preliminary plan alternative layouts for curved steel girder ramps and bridge plans for an overpa over a railroad, using conventional precast pre-stressed concrete girders. Ultimately, the bridge was designed with AASHTO 72" Type BT girder spans ar a 1000'. 3-span steel girder unit over the channel.				
02/20- SECTION	-Present 17 PROJECT	I-10 & I-12 COLLEGE DRIVE FLYOVER RAI team. He has been responsible for engine Dr. Flyover Project. The Flyover was design lanes of traffic at all times. Dr. Rebello der girder spans for widening the existing I-10 the entire project.	MP DESIGN-BUILD: Baton Rouge, LA. <i>Bridge Task Lead</i> - Dr. Rebello is Bridge Task Lead for the GEC erring and design quality services necessary to complete the design and construction of the I-10 & I- need and construction plans were developed to permit a two-phase construction in order to maintain a signed the two-span continuous (180 feet per span) steel superstructure for the flyover as well as a westbound bridge over Ward Creek. He has additionally designed and developed plans for Retaining	C/Boh Bros. -12 College at least two rolled steel og Walls for	
06/12	-Present 17 PROJECT	H.003074 / I-10 NEW ORLEANS, WILLIA of existing bridges, bridge design manage and substructure load rating for existing b documentation provided to LADOTD allow bridge replacement. Dr. Rebello supervised and pre-stressed concrete bridge superstr girders designed in accordance with AASH lining of Canal No. 3 that will be impacted	AMS TO VETERANS: New Orleans, LA. Structural Engineer - Dr. Rebello was in charge of bridge ement, and structural design for this complex project. Dr. Rebello supervised and performed super bridges and ramps for this highly congested 2.58 mile urban interstate project. The extensive load we an informed decision to be made regarding widening or replacing the existing bridges. The data of the structural design of all components of the replacement bridges – deep foundations, bridge piers roucture design, including composite pre-stress and steel girder span. All pre-stress girders were Lou TO LRFD bridge specifications. Design has also been performed on the replacement of portions of the by the new bridge design .	load rating erstructure rating and supported s, and steel uisiana (LG) ne concrete	
09/20 SECTION	-Present 17 PROJECT	H.004100 / I-10, LA 415 TO ESSEN LANE: near Dalrymple Dr. to support multiple Dy on retaining wall caps. All designs are in a Signals".	: Baton Rouge, LA. Structural Engineer - Dr. Rebello designed a two-span truss spanning a future wi ynamic Message Signs as part of the ITS portion of this project. Additionally, he designed light pol ccordance with "AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires	dened I-10 e supports and Traffic	

FIRM EMPI	LOYED BY	G.E.C., Inc.
NAME	Keith Reb	Dello, PhD, PE Continued Resume
04/1	3-07/21	H.011207 & H.011239 / LA 1 BRIDGE, LEEVILLE TO GOLDEN MEADOW: Lafourche Parish, LA. <i>Structural Engineer</i> - Dr. Rebello served as a Structural Engineer as part of a team involved in the design of the widening of an existing bridge and the construction of a new bridge totaling 6,500 feet in length. The variably widened portion of the bridge consisted of prestressed concrete Type III girder spans. The new bridge portions are supported on special new Louisiana (LG) girders. Dr. Rebello performed the LRFR rating on the existing girders and pile bents to assess the structural feasibility for widening. Dr. Rebello was responsible for ensuring that all updated AASHTO and LADOTD specifications were incorporated into the design. Once the widening was deemed feasible, and all design completed, Dr. Rebello performed an as-designed rating on the entire structure.
09/20)-Present	BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA. <i>Bridge Design</i> - GEC has designed the widening of Bluebonnet Blvd. to include an additional lane in each direction. Dr. Rebello performed an investigation of the bridge over Dawson Creek to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM. This investigation started with an in-depth inspection of the bridge superstructure and substructure. The Inspection Report provided Condition Ratings for the superstructure, substructure, and piles. The Condition Ratings were used in the performance of a bridge load rating based on the AASHTO Manual of Bridge Evaluation and the LADOTD BDEM . The rating indicated the need to replace the existing bridges. The new precast prestressed (LG type) girder bridges will provide five lanes of traffic (three through and two turn lanes) in the southbound direction and three lanes of through traffic in the northbound direction. The southbound bridge will have a clear roadway width of 58'-0" made up of five 11-0" lanes and two 1'-6" shoulders. On the northbound bridge, three 11'-0" lanes and two 1'-6" shoulders will provide a clear roadway width of 38'-0". The bridges will have a 10'-0" wide multi-mode sidewalk (southbound) and a 5'-0" wide pedestrian sidewalk (northbound). (City-Parish Project No. 19-CP-HC-0034)
01/2	3-04/23	OVERLAY THE WEST CAUSEWAY APPROACH ROAD AT CHINCHUBA BAYOU: Mandeville, LA. <i>Road Design Engineer</i> - This project involved the rehabilitation of an existing roadway for the Greater New Orleans Expressway Commission. The rehabilitation included milling and overlaying the existing roadway, installing new pavement markers, and redesigning the existing guard rail in order to meet current safety standards. Dr. Rebello was responsible for the development of the construction plans, and the design of the new guard rail.
11/1	8-07/20	I-10 SERVICE ROAD BRIDGES: Slidell, LA. Project Manager (Structural) - This project included the replacement of a 5 span 100 feet long concrete slab span bridge over Reine Canal and 5-span 100' long slab span bridge with 30-degree skew over French Branch Canal. Dr. Rebello was the structural project manager for this project and oversaw the structural design, plan preparation and quality control.
04/1	9-06/23	CHEVELLE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA. <i>Structural Engineer</i> - This project included the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek with a 4-span 80-foot long slab span bridge and the existing Sarasota Drive bridge over Engineers Depot Canal with a 5-span 105-foot long slab span bridge. Both bridges have pedestrian sidewalks and are located in Baton Rouge, Louisiana. Dr. Rebello was the Project Manager for this project and oversaw the structural design, plan preparation, quantity estimates, as-designed rating, and quality control.
07/0	9-06/12	LAKE PONTCHARTRAIN, LA AND VICINITY, HURRICANE PROTECTION PROJECT LPV 17.2, BRIDGE ABUTMENT AND FLOODWALL TIE-INS AT CAUSEWAY BRIDGE: Jefferson Parish, LA. <i>Structural QA</i> - Dr. Rebello performed bridge and structural design in the final phases of this project which included 1200 'of new NB and SB elevated bridge structures from 6th street to foot of existing bridge with 40-foot-high structure mounted light fixtures. Design consisted of slab spans & Type III PPC girder spans. Design also included a floodwall (T-wall) at existing levee crossing grade.
07/09)-Present	GNOEC, INSPECTION OF THE CAUSEWAY BRIDGE AND APPROACHES: Jefferson and St Tammany Parishes, LA. Load Rating Structural Engineer - Dr. Rebello is the primary Load Rating Structural Engineer on this project. Federal Law 39 FR 10430 requires that all bridges on public roads be inspected and rated in accordance with National Bridge Inspection Standards (NBIS), 23 CFR Part 650, Subpart C. As Consulting Engineer for the Greater New Orleans Expressway Commission (GNOEC), GEC is responsible for the NBIS inspection and load rating for all GNOEC-owned bridges. Dr. Rebello has performed superstructure ratings for double-leaf steel Bascule Spans, prestressed concrete box girder spans, prestressed concrete monolithic girder and slab spans, and, composite steel girder and concrete deck spans on the GNOEC owned system. All rating has been done in accordance with American Association of State Highway Transportation Officials (AASHTO) Manual for Bridge Evaluation.

FIRM EMPLOYED BY	Arcadis			
NAME Jose L. R	odriguez, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	1
TITLE Senior C	ivil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	24
DEGREE(S) / YEARS / SPE	CIALIZATION	B.S. / 1992 / Civil Eng	gineering	
ACTIVE REGISTRATION N	IUMBER / STATE / EXPIRATION DATE	30492 / Louisiana / 0	3-31-2025	
YEAR REGISTERED 20	DISCIPLINE	Civil Engineer		
CONTRACT ROLE(S) / BR	EF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Roadway Design QA/QC	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
	Mr. Rodriguez has more than 25 years of e project management, hydraulic analysis, Louisiana, Texas, Georgia, and North Caro Engineers (USACE), Louisiana Department experience with Bentley Inroads, Autodesk Board, becoming president of the Louisian	experience with roles of utility coordination, c lina. Jose has worked in of Transportation (LA Civil 3d, and Leap Brid a Chapter in 2010 and	f progressive responsibility as a civil engineer performing roadway design, brid onstruction supervision, estimating, and project implementation for variou In close relationship with the Federal Highway Administration (FHWA), U.S. Arr DOTD), local parish governments, and regional planning commissions. He ha Ige for Concrete Bridge Design. Served on the American Concrete Institute (ACI remains active in the organization.	dge design, s clients in ny Corps of s extensive I) Louisiana
07/09 – 07/15	PETERS ROAD EXPANSION, PHASES I-I wetland delineation of Peters Road Phas approach roadways in Jefferson and Plaqu project, Jose actively contributed to the pr projects were executed in close collaborat	II: LADOTD, Plaquemin es I, II and III. The pro- lemines Parishes to tie reparation of plans and ion with Plaquemines I	nes, LA. Project Designer. Responsible for the geometric design, plan prepa ojects consisted of a new roadway, elevated crossing over the Intracoastal e Peters Road to Louisiana 23 near Barrier Road. During the environmental pl l exhibits required for securing permits from the U.S. Coast Guard and the US/ Parish, the LADOTD, and the USACE.	ration and Waterway, hase of the ACE. These
01/08 – 05/08	I-12 TO BUSH CORRIDOR STUDY PHASE and developing design alternatives in accordination with the environmental team	E III (EIS): LADOTD, St. ordance with the Nation, helped produce plan	Tammany Parish, LA. Project Designer. Responsible for evaluating environme onal Environmental Policy Act (NEPA) for transportation improvements. Jose, s and exhibits for the development of GIS data sets for the project.	ental issues working in
04/21 – Ongoing	LEE DRIVE (HIGHLAND ROAD TO PERKI and developing concept drawings to evalu of-way needs. Provided technical guidanc Complete Street regulations for the corri alternative.	NS) FINAL DESIGN ST late the geometric feas e to help identify gree dor. During the alterna	UDY REPORT: MOVEBR Baton Rouge, LA. Project Designer, Responsible for cosibility of different roadway alternatives, proposed improvements, and anticipn infrastructure opportunities along the project. Also assisted in the implemative's selection process, conducts cost estimates to evaluate and select the	oordinating ated right- entation of preferred
01/06 – 09/09	NEW ORLEANS SUBMERGED ROADWAY Designer and Quality Control Reviewer fo processes for the standardization of engin parishes. Responsible for conducting qua FHWA design standards.	PROGRAM MANAGI r the program manage neering work for the re lity control reviews on	EMENT: LADOTD / New Orleans Regional Planning Commission, New Orleans, ement team for the LADOTD and the FHWA. Jose helped develop design guid epair of roadways damaged by Hurricane Katrina in the City of New Orleans roadway plans prepared by other engineering firms for compliance with LA	LA. Project delines and and other ADOTD and
02/10 - 06/11	I-10 FROM VETERANS TO CLEARVIEW: If from three lanes to five lanes in each direct for the alignment and design of concrete noise wall precast concrete panels.	ADOTD, Metairie, LA. I ition. The project also i sound walls along the	Project Designer. Responsible for roadway plan preparation for widening 1.2 m ncluded bridge work to accommodate the interstate widening. Jose was also r corridor. He helped implement an innovative two-sided concrete stamp proc	niles of I-10 responsible cess for the

FIRM EMPLOYED B	Arcadis
NAME Jose	L. Rodriguez, PE Continued Resume
05/12 – 12/1	EARHART BOULEVARD-CAUSEWAY INTERCHANGE: LADOTD, New Orleans, LA. Project Designer. Responsible for the geometric design and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow of traffic for the New Orleans Metro Area. It consisted of the development of roadway and bridge ramps for the creation of an elevated signal-controlled interchange. Responsible for development of all horizontal and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage design, utility conflict resolution and cost estimating for the project.
06/04 – 01/1	CAUSEWAY BOULEVARD INTERCHANGE IMPROVEMENTS PHASES I AND II: LADOTD, Metairie, LA. Project Designer. This project consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at-grade and elevated ramps to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders and the roadway plan preparation for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations.
01/20 – 05/2	NC HIGHWAY 73 (NC 73) WIDENING: North Carolina DOT, Mecklenburg County, North Carolina. Project Engineer. Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges due to the high traffic volumes, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To mitigate traffic disruption and enhance roadway safety, assisted in preparing the Transportation Operation Plans and sequence of construction for the project. All design work was performed following NCDOT and the latest MUTCD standards.
03/19 – 05/2	EASTERN FEDERAL LANDS HIGHWAY DIVISION (EFLHD): Puerto Rico. Assessment Roadway Lead: Responsible for reviewing, preparing reports, and coordinating repairs at over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project adhered to the client's guidelines and strict schedules. Jose ensured that all fieldwork and plan development were aligned with Puerto Rico's horizontal and vertical datums for integration with GIS systems.
04/18-09/2	0 TEXAS HIGH-SPEED RAIL, TEXAS CENTRAL RAILWAY: Dallas to Houston, Texas. Project Designer. Assisted with establishing flood elevations for the alignment of over 240 miles of rail tracts. Also responsible for the realignment of at-grade roadways impacted by the High-Speed rail.
10/17 – 03/1	 TRAFFIC TURN LANES ON HIGHWAY LA 3127: Yuhuang Chemical Inc., St. James, LA. Quality Control (QC). Review for the design of two turn lanes into the Yuhuang Chemical Methanol plant in St. James, Louisiana. During construction, Jose provided the owner with construction design services for the duration of the construction phase.
12/15 - 01/1	6 MAGNOLIA RIDGE LEVEE PROJECT: City of New Orleans, St. Charles Parish, LA. Quality Control (QC). QC review and plan preparation for the Magnolia Ridge Levee project for St. Charles Parish.

FIRM EMPL	OYED BY	G.E.C., II	າດ.			
NAME	Thom	as Swanson,	PE, PTOE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	18
TITLE	Senio	r Professiona	l Civil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	10
DEGREE(S)	/ YEARS /	SPECIALIZATION		B.S. / 1992 / Civil Eng	zineering	
ACTIVE REG	GISTRATIC)N NUMBER / STA	TE / EXPIRATION DATE	30139 / Louisiana / 0 1016 / US / 04-10-20	9-30-2026 27	
YEAR REGIS	TERED	2002; 2006	DISCIPLINE	Civil Engineer; Profes	ssional Traffic Operations Engineer (PTOE)	
CONTRACT	ROLE(S)	BRIEF DESCRIPT	ION OF RESPONSIBILITIES	Role on this Project:	Traffic QA/QC	
EXPERIENC (MM/YY–M	e dates M/YY)	EXPERIEN DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
		Mr. Swan much of engineer collection control of Pavemer 1-3 of th Plans (TI production	nson's career began over 40 years of his career on traffic, ITS, & electrico ing services associated with Stage of & analysis, traffic signal warrant levices plans and computerized sig at Marking Manual, Traffic Signal e Traffic Engineering Process and I MP), both for ITS and lighting proje on of preliminary plans for the desi	ago when he worked a al engineering projects e O Feasibility Studies, analysis, traffic signal t gnal system design and Manual, Traffic Engine Report Course offered l ects. He supports GEC's gn and development oj	is an electrician for the U.S. Navy. He later graduated in Civil Engineering and H s since 1992. While in GEC's Electrical Department, Mr. Swanson has provided p Stage 1 Environmental Assessments, traffic studies & traffic signal design, a timing & optimization, design of isolated traffic signal intersections, developme d engineering projects. Mr. Swanson has working knowledge of LADOTD's Sig eering Process and Report, and Traffic Engineering Manual. He has completed by LTRC. Mr. Swanson has completed a number of Level 1-4 Transportation Mo s engineering group by providing traffic engineering analysis and design in sup f construction plans for roadway improvement projects.	nas focused professional traffic data nt of traffic gn Manual, ed Modules anagement pport of the
02/20 SECTION	-Present 17 PROJI	t responsi pavemer	H.013897 / I-10 & I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. Traffic Engineer - Mr. Swanson' responsibilities included the ITS system relocation design, and construction signage and striping (Maintenance of Traffic) and permanent signage and pavement markings. Mr. Swanson completed the construction signing/striping layout as well as permanent signing/striping.			
20	012	H.00804 existing Intersect	6 / LA 3152 CLEARVIEW OPERA alignment and recommended geo ions. Performed the Stage 0 for th	ATIONAL IMPROVEM metric improvements, e project, and involved	IENTS: Jefferson Parish, LA. <i>Traffic Engineer</i> - Mr. Swanson performed a st , specifically improvement of the Clearview/Airline Highway and Clearview/M d in the Transportation Management Plan for the construction project.	udy of the ounes Ave.
12/23	3-04/24	NORTH roadway pavemen Pavemen	CAUSEWAY APPROACH ROAD for the Greater New Orleans Exp at markers, and redesigning the ex at Marking and Signage plans for the	OVERLAY: St. Tamma pressway Commission. kisting guard rail to me ne project. This include	ny Parish, LA. <i>Traffic Engineer</i> - This project involved the rehabilitation of The rehabilitation included milling and overlaying the existing roadway, instet current safety standards. Mr. Swanson provided the Sign Summary, with ed size and MUTCD catalog designation.	an existing talling new permanent
2017- SECTION	Present 17 PROJI	ECT H.00307 betweer 2.58 mile project i CCTV site	4 / I-10 WIDENING, WILLIAMS B Williams Boulevard and Veterans es and consists of the construction includes a level 2 Transportation Ma e on the north side of I-10.	ELVD. TO VETERANS E Boulevard interchange of one 12' additional anagement Plan (TMP)	BLVD.: Jefferson Parish, LA. <i>ITS Engineer</i> - GEC is currently designing the wider es in Jefferson Parish. Final design plans are over 95% complete. The total proje lane with a 10' shoulder inside along the I-10 eastbound and westbound road). Mr. Swanson provided plans to relocate the existing CCTV Site, along with ar	ning of I-10 oct length is lways. This additional
09/19	9-07/24	LASAFE at Airline analyzin	AIRLINE AND MAIN COMPLETE Highway (US 61) and Main St (LA g and observing vehicular and ped	STREETS: LaPlace, LA. 44) for this ongoing p estrian traffic, to asses	 Traffic Engineer - Mr. Swanson performed design of ADA-compliant pedestria project. He also completed a pedestrian/traffic study for the Main Street (LA 4 ss the need to add crosswalks. 	n crossings 4) corridor
2	017	PALMIS	ANO BLVD. IMPROVEMENTS: Ch	almette, LA. Traffic En	ngineer - Mr. Swanson completed striping and signing for a bike path.	
04/16	5-10/16	H.01084	3/ORMOND BLVD. REHAB: St. C	harles Parish, LA. Traff	fic Engineer - Mr. Swanson performed traffic counts and roadway striping plan	J.

FIRM EMPLOYED BY	G.E.C., Inc.			
NAME Micke	y Prattini Jr., PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	9
TITLE Senior	Professional Electrical Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	11
DEGREE(S) / YEARS / S	PECIALIZATION	B.S. / 2004 / Electrica	al Engineering	
ACTIVE REGISTRATIO	NUMBER / STATE / EXPIRATION DATE	35993 / Louisiana / 0	3-31-2027	
YEAR REGISTERED	2011 DISCIPLINE	Electrical and Compu	iter Engineer	
CONTRACT ROLE(S) /	BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Electrical QA/QC	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT SPECIFIED IN THE APPLICA	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
	Mr. Prattini's 20 years of electrical design e pump motor installations in hazardous (clas Mr. Prattini is experienced with NFPA standa required for this project. He started his care challenges to produce quality deliverables i	experience includes ligh sified) locations, genero ards required by electric eer as an electrician in t in line with the project's	nting design and quality control, wastewater treatment facilities and lift station ator installation projects, and multiple government (municipal and transportation cal projects and is capable of completing the design and project management re the army and has consistently managed client and stakeholder relations along s delivery schedule.	ns, multiple n) projects. elated tasks with design
09/20-Present	H.004100.5 / I-10 CMAR, LA 415 TO ESSE the quality control for the enhancement emphasize the Greenway path from the Ex and collaborating on the design of the enh	N LANE ON I-10 AND lighting study for Segr pressway Park to the b ancement, roadway, a	I-12: West and East Baton Rouge Parishes, LA. <i>Electrical QA/QC</i> - Mr. Prattini nent 1 of the project to incorporate aesthetic lighting at the City Park Lake ridge. Though the CMAR project is currently in design, Mr. Prattini is currently nd walkway lighting.	performed Bridge and overseeing
02/20-Present	H.013897 / I-10 & I-12 COLLEGE DR. FL provided photometric and lighting design quality control services as necessary to con	YOVER RAMP DESIGN review and quality complete the design and	N-BUILD PROJECT: East Baton Rouge Parish, LA. Engineer of Record - Mr. I ntrol review for the GEC/Boh Bros. team. GEC is responsible for engineering construction for the I-10 & I-12 College Dr. Flyover Ramp Design-Build Project	Prattini has and design t.
04/19-Present	 H.003074.5 / WILLIAMS BLVD – VETER photometrics, electrical calculations, and d all of which will need revisions to the exist 	ANS BLVD., ROUTE I Irawing development o ing lighting systems as	-10: Jefferson Parish, LA. Electrical Engineer of Record - Mr. Prattini is over of the project, which includes a total length of 2 miles of widening and three int well as FAA coordination for the lighting design.	rseeing the erchanges,
09/19-07/24	LASAFE AIRLINE AND MAIN COMPLETE of the roadway lighting system. This project sidewalk will accommodate pedestrians ar at the intersection of Main Street and Airli	STREETS: LaPlace, LA ct involved the design a nd bicyclists. Additiona ne Highway.	 Electrical Engineer of Record - Mr. Prattini designed and supervised the elect and illumination of a sidewalk along Airline Highway that will connect to Main I illumination is provided for the parking area of St. John Parish Utilities buildi 	rical design Street. This ng, located
08/21-Present	AMES BLVD LIGHTING: FROM LAPALCO charge of the electrical design for adding c related engineering services.	BLVD TO WESTBANK E lecorative street lightin	EXPY: Jefferson Parish, LA. <i>Electrical Engineer of Record</i> - Mr. Prattini was in a ng fixtures to approximately 1.3 miles of roadway. GEC provided design and co	responsible onstruction
01/18-09/20	RETAINER NO. 44-2746, T.O. H.012602 / Control for this project during design and design and construction services under tw	MORRISON ROAD IN CE&I support during co o separate Task Orders	TERSTATE LIGHTING: New Orleans, LA. <i>Quality Control</i> - Mr. Prattini perforn onstruction. Project limits included the I-10 / Morrison Road Interchange. GE S.	ned Quality C provided
2017-2022	RETAINER NO. 44-2746, T.O. H.012469, U In 2017, Mr. Prattini performed Quality C addressed additional comments made by aviation lighting. GEC provided design serv	S 190, MISSISSIPPI RI ontrol for this project. the railroad. Project rices and is currently av	IVER BRIDGE – NAVIGATION LIGHT REPLACEMENT: Baton Rouge, LA. <i>Qual</i> From 2021-2022, Mr. Prattini provided revised plans as the engineer of rec makeup consists of the following types of roadway lighting standards: navi waiting the project to be slated for construction.	ity Control- cord, which igation and

FIRM EMPLO	OYED BY	Integrate	ed Logistical Support, INC.		
NAME	lam C	hristian Tuck	er	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	17
TITLE	Presic	lent/CEO/Ow	ner	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2
DEGREE(S) /	YEARS /	SPECIALIZATION		BA / 2021 / Interdisciplinary Studies Concentration: Community and Leadership Development	
ACTIVE REG	ISTRATIC	N NUMBER / STA	TE / EXPIRATION DATE	N/A	
YEAR REGIS	TERED	N/A	DISCIPLINE	N/A	
CONTRACT	ROLE(S)/	BRIEF DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project: Public Outreach	
EXPERIENCE (MM/YY-MM	E DATES M/YY)	EXPERIENC DATES SHO	E AND QUALIFICATIONS RELEVANT TO T OULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
19 years of experience Iam Christian Tucker is the President and C sector both domestically and internationally in expanding the company since purchasing employees and secured more than 100 con		stian Tucker is the President and C th domestically and internationally ling the company since purchasing es and secured more than 100 con	CEO of Integrated Logistical Support, Inc. (ILSI Engineering), leading the firm to success in the civil e y. With a background in law enforcement and a degree from the University of New Orleans, Iam has b g it from her late father in 2008. Under her leadership, ILSI Engineering has grown from a small team tract awards, increasing revenue from \$2 million to over \$8.5 million by 2023.	ngineering een pivotal 1 to over 50	
2008	-2020	CANAL E direction provisior ensuring safety an	OULEVARD RECONSTRUCTION and ensured the project aligned s, cost estimates, and Categorica coordination with ILSI and other s d accessibility for pedestrians and	(ROBERT E. LEE BLVD. TO AMETHYST ST.): New Orleans, LA. Principal – As Principal, Iam oversaw I with community goals. She focused on high-level management, guiding the development of plant Exclusion while ensuring the project met the community's needs. Her role involved providing stakeholders, and ensuring the project adhered to environmental and regulatory requirements while d cyclists in the community.	the overall ins, special leadership, enhancing
AUTOMATED METERING INFRASTR system aligned with the needs of Ne and the community, ensuring stakeho explain the benefits of the AMI system timelines and safety standards while p		ATED METERING INFRASTRUCT ligned with the needs of New Or community, ensuring stakeholders he benefits of the AMI system, ad and safety standards while priori	TURE (AMI): New Orleans, LA. Principal – Iam oversaw the community outreach efforts and ensur- leans Sewerage & Water Board (SWB) customers. She facilitated communication between SWB, J s were informed and engaged throughout the project. Her responsibilities included guiding outreac Idressing community concerns, and ensuring the project met local needs. She ensured the project tizing transparency and collaboration with the community.	ed the AMI acobs, ILSI, h efforts to adhered to	

FIRM EMPL	OYED BY	Integra	ted Logistical Support, INC.			
NAME	Peter	Spencer, E	I	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	1	
TITLE	Civil E	ingineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	5	
DEGREE(S)	/ YEARS /	SPECIALIZATIC	N	B.S. / 2019 / Civil and Environmental Engineering		
ACTIVE REG	ISTRATIC	N NUMBER / S	TATE / EXPIRATION DATE	34023 / Louisiana / 09-30-2025		
YEAR REGIS	TERED	2019	DISCIPLINE	Civil Engineer		
CONTRACT	ROLE(S) /	BRIEF DESCRI	PTION OF RESPONSIBILITIES	Role on this Project: Public Outreach		
EXPERIENCI (MM/YY-M	e dates M/yy)	EXPERIE DATES S	NCE AND QUALIFICATIONS RELEVANT TO HOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE E SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE	
6 years of experience		risk mo contra Design the con a stror	nagement and has worked on high ctors, and ensuring that projects an er, contributing to detailed design c mmunities they serve. Currently, Pet og emphasis on public safety and co	n-profile initiatives. Peter has extensive experience overseeing construction work in the field, coordir re completed on time, within budget, and according to specifications. Additionally, he has worked and drafting to support project execution. He ensures that his projects enhance infrastructure and en- ter is focused on joint venture projects, leveraging his expertise to deliver sustainable engineering solu- mmunity impact.	nating with as a CADD ngage with utions with	
2024-0	Ongoing	ENTER harder conduc affecte experie	ENTERGY RESILIENCY PROGRAM: New Orleans, LA. Public/Community Outreach – Peter served as a lead for the ILSI team on the \$100M utility pole hardening project in New Orleans. He coordinated field operations to upgrade 3,100 utility poles, ensuring ongoing inspections and assessments were conducted effectively. In addition to his civil engineering responsibilities, Peter led community outreach efforts, overseeing the canvassing of neighborhoods affected by the upgrades. He updated residents, addressed concerns, and ensured clear communication to minimize disruption and maintain a positive experience throughout the project.			
2024-0	Ongoing	g for the utility	NS JUSTICE CENTER MEDICAL BL medical building at the Orleans Just verification. Attend weekly meeting	JILDING: New Orleans, LA. Construction Manager – Peter is responsible for overseeing construction stice Center. Services include pile driving, concrete pours, reinforcement, mechanical, electrical, plur s, address RFIs, review daily reports, track personnel, and verify contractors' pay quantities.	inspection nbing, and	
2020)-2022	RR149 and fil specifi	WATERLINE REPLACEMENT – REA ing daily, weekly, and monthly report cations, preparing plan changes, and	AD BLVD: New Orleans, LA. Construction Manager – Peter was responsible for managing inspectors orts, verifying quantities, making site visits to confirm work in the field is completed according to d attending weekly meetings with the Construction Administrator, Contractors, and Sewerage and Wa	, compiling plans and ater Board.	

FIRM EMP	LOYED BY	G.E.C., I	nc.			
NAME	Jerome	e Lohmann,	PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	9
TITLE	Senior	Professiona	Il Civil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	32
DEGREE(S) / YEARS / S	PECIALIZATION		B.S. / 1984 / Civil Eng	ineering; A.A.S / 1977 / Surveying	
ACTIVE RE	GISTRATION	I NUMBER / STA	ATE / EXPIRATION DATE	24673 / Louisiana / 0	9-30-2026	
YEAR REG	ISTERED	1992	DISCIPLINE	Civil Engineer		
CONTRAC	T ROLE(S) / E	RIEF DESCRIPT	TON OF RESPONSIBILITIES	Role on this Project: F	Road Design	
EXPERIEN (MM/YY-N	CE DATES MM/YY)	EXPERIEN DATES SH	CE AND QUALIFICATIONS RELEVANT TO T OULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; SPECIFIED IN THE APPLICA	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
Mr. Lohmann has served as Project Mana replacements or entity overlays to intersta estimates for the design and development drainage features on roadway construction existing data, as-built plans, improvement s with the latest Louisiana Standard Specific Manual, Bridge Design Manual, Hydraulic Minimum Design Guidelines, and DOTD M utilized the LADOTD Roadway Design Proce Veterans project utilizing LADOTD Design				ger/Design Engineer re e widening and major of construction plans j projects in accordance udies, boring informati ations for Highways an Manual, EDSM I.1.1.1 nimum Design Guideli dures and Details Mar Procedures and Details vel 2 Transportation M	esponsible for the design and management of projects ranging from off-sys r interchanges. Mr. Lohmann has completed and/or managed preliminary plan for roadway improvement projects, including providing hydraulic analysis an e with the current edition of DOTD's Hydraulics Manual. He has experience with ion, traffic data, and field reconnaissance. He has experience designing plans in a d Bridges and in the current editions of DOTD's Roadway Design Procedures 11, Guidance for PRR Projects, 3R Minimum Design Guidelines and DOTD Pav ines. This includes the recently constructed LASAFE Airline and Main Street pro mual. In addition, he is currently managing 95% final design plans for the I-10 r. He reviews Design Reports, Design Exceptions, and Design Waivers as need anagement Plans for roadway construction projects following completion of	tem bridge ns and cost d design of n reviewing accordance and Details rement PRR oject which Williams to ed for road f a stage 0.
02/20 SECTION	0-Present I 17 PROJEC	 H.01389 Roadwar geometric control si in the Let 	y Task Lead for the GEC/Boh Bros ric layout for the entire project, enservices as necessary to complete the evel 4 Transportation Management	OVER RAMP DESIGN team. Mr. Lohmann suring conformance to the design and construc Plan (TMP).	I-BUILD PROJECT: East Baton Rouge Parish, LA. <i>Roadway Task Lead</i> - Mr. L provided the roadway construction plans for this project and was responsi to LADOTD and AASHTO standards. GEC is responsible for engineering and des stion for the I-10 & I-12 College Dr Flyover Ramp Design-Build Project. He also p	ohmann is ble for the sign quality participated
02/24 SECTION	4-Present	H.01537 adjacent run para project's	72 / WILLOW STREET AREA IMPI t to Willow St. and Evangeline Thru allel with Evangeline Thruway; the preliminary plans, Mr. Lohmann p	OVEMENTS: Lafayet uway, and the redesig redesign and extension provides project manage	te Parish, LA. Road Design Engineer - This project involved the redesign of in of Willow St. itself. The local roads included the redesign of two frontage n of an existing side street; and the widening and partial redesign of Willow gement, along with review of the hydraulic calculations and construction plan	local roads roads that St. For the IS.
11/1: SECTION	5-Present	H.00307 I-10 bet are over of the co replacer side of I impacte phase. T	74 / I-10 WIDENING, WILLIAMS B ween Williams Boulevard and Vete 90% complete in accordance with onstruction of one 12' additional lan nent and widening of the bridges o -10, form part of this project. Desi d by the new bridge design . Mr. Lo his project included a level 2 Trans	LVD. TO VETERANS B rans Boulevard interch LADOTD's Roadway Do ne with a 10' shoulder ver Canal No. 3 and Ve gn has also been perfo hmann provided desig portation Managemer	BLVD.: Jefferson Parish, LA. <i>Project Manager</i> - GEC is currently designing the whanges in Jefferson Parish. Mr. Lohmann is currently managing final design presign Procedures and Details Manual . The total project length is 2.58 miles a inside along the I-10 eastbound and westbound roadways. Included in the preterans Blvd. Sound Barriers, both ground-mounted and structure-mounted or premed on the replacement of portions of the concrete lining of Canal No. 3 to n in the preliminary plans phase and design review of the roadway during the nt Plan (TMP).	videning of lans which nd consists oject is the n the north that will be final plans
12/2:	1-Present	SHARP improve paveme	ROAD: Mandeville, LA. <i>Project M</i> ments, subsurface drainage instal nt conditions and drainage, along v	anager - Mr. Lohmanr llation, and sidewalk o vith providing a safe pl	n is managing the preparation of preliminary and final construction plans for construction. Design increases safety for this heavily trafficked roadway by lace for pedestrians and bicyclists.	or roadway improving

FIRM EMPLOYED BY	G.E.C., Inc.
NAME Jerome	e Lohmann, PE Continued Resume
02/17-10/17	H.008046 LA 3152: CLEARVIEW OPERATIONAL IMPROVEMENTS: Jefferson Parish, LA. <i>Project Manager</i> - This project involved the milling and overlaying of LA 3152 and new pavement marking and signage. Along with the milling and overlaying, turns lanes were being added, extended, etc., so new pavement sections were designed. Responsibilities included Scope, Fee project management and QA/QC associated with this project.
09/19-04/24	LASAFE-AIRLINE & MAIN COMPLETE STREETS: LaPlace, LA. <i>Project Manager</i> - Mr. Lohmann managed the development of typical sections and preliminary layout for the project in accordance with LADOTD's Roadway Design Procedures and Details Manual, which consists of a 10' & 5' sidewalk along the north side of US 61 for improved accessibility and mobility and curb bump outs to reduce the crosswalk distances and eliminate parking within the vicinity of the crosswalks to improve sight distance of pedestrians at the crossings. Existing ditches will have pipes added & be reshaped to provide detention ponds to reduce time of concentration. Along Main St., design will provide parallel parking utilizing decorative brick & permeable base to reduce time of concentration. He oversaw the calculation of preliminary quantities & development of a preliminary estimated construction cost. He proposed the conceptual design to the Parish & received approval. He also oversaw development of the fee for all costs.
09/20-Present	BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA. <i>Project Manager</i> - Mr. Lohmann is Project Manager, overseeing design of a six-lane, curb and gutter roadway with subsurface drainage , bridge replacement, green infrastructure, extended turn lanes, upgraded signage, signal improvements, highly visible lane markings, protected merge and turn lanes, rumble strips, and pedestrian facilities. GEC's design is in accordance with MOVEBR Design Guidelines and Consultant Services Manual. Mr. Lohmann supervised a study of the existing bridge over Dawson Creek. Based on the load rating, GEC recommended that the existing bridge be replaced and feature he pedestrian facilities with barriers to separate pedestrians/bicyclists from vehicular traffic. This project included a level 2 TMP.
02/19-Present	MID-CITY RR126 GROUP C, RR127 GROUP D, AND RR128 GROUP E: New Orleans, LA. <i>Project Manager</i> - GEC is preparing plans, specifications, and estimates for the removal and replacement of an existing asphalt and concrete pavement and drainage structures, as well as replacement of waterline and sewer main. Tasks include horizontal and vertical geometry , subsurface drainage design , and cross section development. As PM, Mr. Lohmann has provided contract management, assists with design reviews, and performed fee negotiation.
06/17-10/18	H.012783 / WB VETERANS, SEVERN AVE. – CLEARVIEW PKWY.: Jefferson Parish, LA. <i>Project Manager</i> - This PRR project which included letter (8.5x11) size plans involved the milling and overlay of Veterans Blvd. Two new drainage systems were also designed along with graphical grades to reduce ponding along the roadway. Mr. Lohmann's responsibilities included scope, fee project management, and QA/QC.
08/23-Present	44-25040 / IIJA OFF-SYSTEM BRIDGE PROGRAM, DISTRICT 61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Baton Rouge, Ascension, and Assumption Parishes, LA. Senior Project Manager - Mr. Lohmann is the senior project manager responsible for project review and assists the design engineers as needed. He is also responsible for QA/QC.
08/01-05/02	258-33-0001 / BLUEBONNET BOULEVARD EXTENSION (NICHOLSON DR. TO BURBANK DR.): Baton Rouge, LA. <i>Project Manager</i> - Mr. Lohmann completed preliminary plans for the widening of Bluebonnet Blvd. to a 4- and 5-lane urban section for approximately 2.5 miles. He was responsible for project administration and management, coordination of subconsultants, and Quality Control design. This project included a level 2 TMP.
11/15-08/16	H.011435 / US 11 IMPROVEMENTS AT SCHNEIDER CANAL: Slidell, LA. <i>Project Manager</i> - The project elevated US 11 at the levee so that ongoing construction of the levee (in separate projects by the Parish) could continue beyond this point without a break in flood protection at the highway. The road section is a divided two-lane raised median with full-width shoulders and curb & gutter drainage to reduce the risk of road flooding and water hazards for motorists. Safety modifications include signage and striping improvements and intersection safety modifications. The highway remained on-grade on embankment and was raised approximately 10 feet at the levee. Approximately 2,300 feet of the highway was affected. GEC accomplished all aspects of design with its own in-house personnel, excluding geotechnical services. GEC completed the construction plans for this project in the summer of 2016. It incorporates an improved curbed road section including a raised median and a bike path. This project was the first project ever designed with LADOTD specifications that included a levee. Mr. Lohmann designed approximately 2,700' of divided two lane and multi-lane roadway to raise the roadway over the levee on Schneider Canal. This project included a level 2 Transportation Management Plan (TMP).

FIRM EMPLOYED BY G.E.C., Inc.							
NAME	Logan Mi	chel, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	2		
TITLE	Profession	nal Civil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	7		
DEGREE(S),	/ YEARS / SPEC	IALIZATION	B.S. / 2015 / Civil Eng	ineering			
ACTIVE REG	SISTRATION NU	IMBER / STATE / EXPIRATION DATE	43970 / Louisiana / 0	3-31-2026			
YEAR REGIS	TERED 201	9 DISCIPLINE	Civil Engineer				
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Road Design			
EXPERIENC (MM/YY–M	e dates M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE		
Mr. Michel has 9 years of experience focus including bridge spot replacement, roundab construction management, and preparation He provided oversight for major projects a completed the Traffic Engineering Analysis H Plans for roadway construction projects and LADOTD's Boadway Design Procedures and		ed on road design. He pouts, overlay projects, and review of constru- and conducted project Process and Report Mo nd is familiar with the Details Manual, LADO	e was involved in developing all aspects of roadway planning for LADOTD sta , and new roadway development. His expertise includes planning and design, p ction data and reports, including cost estimates, specifications, test results and meetings on design modifications, work progress and safety measures. Mr. dules 1-3 training. He has experience developing Level 1 & 2 Transportation Me current editions of LADOTD's Louisiana Standard Specifications for Roads an TD's Minimum Design Guidelines, Roadside Design Guide, and Hydraulics Man	te projects, project and ' schedules. Michel has pragement nd Bridges, ual.			
08/22-Present SECTION 17 PROJECT Besigner for the GEC/Boh Bros. team. Get construction for the I-10 & I-12 College D Standard Specifications for Highways and Maintenance of Traffic (MOT) plans for all approved plan speets as the project progre			VER RAMP DESIGN-B C is responsible for en Or Flyover Ramp Desig Bridges and LADOTD's phases of constructio esses. He works closely	UILD PROJECT: East Baton Rouge Parish, LA. <i>Roadway Design</i> - Mr. Michel is gineering and design quality control services as necessary to complete the gn-Build urban freeway transportation project. Design is in accordance with s Roadway Design Procedures and Details Manual . Mr. Michel developed a n. Mr. Michel is responsible for editing current or future design and revising with the contractor to provide safe and effective ongoing construction for all	s Roadway design and 1 Louisiana and revised previously parties.		
08/22- SECTION	22-Present N 17 PROJECT H.003074, I-10 WIDENING, WILLIAMS T existing interstate and the widening/repla than 95% complete in accordance with L engineer to prepare technical plan sheets		D VETERANS: Jefferso mement of bridges to ac DOTD's Roadway Des for surcharge construct	on Parish, LA. <i>Road Design</i> - Project included the design of the addition of a ccommodate the additional lane. Mr. Michel is reviewing GEC's final plans whic ign Procedures and Details Manual . Mr. Michel has coordinated with the Ge tion.	l ane to the h are more eotechnical		
08/22	08/22-12/24 BAINBRIDGE AVE. ROADWAY & DRAIN the Bainbridge project. Mr. Michel's role coordination, coordination with Jefferson I (Opinion of Probable Construction Cost) fo		AGE IMPROVEMENT consisted of preparing Parish, and implement r GEC's portion of the	TS: Kenner, LA. <i>Project Engineer</i> - GEC is preparing plans for the drainage g hydraulic calculations and drainage plan and profile sheets based on sub- ation of Parish standards. Also, Mr. Michel prepared technical specifications a design for each submittal stage.	design of consultant and a OPCC		
44-2 and 10/23-Present with geor right		44-25040 / IIJA OFF-SYSTEM BRIDGE PROGRAM, DISTRICT 61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Baton Rouge, Ascens and Assumption Parishes, LA. Design Engineer - Projects include the design of a bridge spot replacement of off-system bridges. The design is in accorda with Federal Aid Off-System Highway Bridge Program and the Off-System Hydraulic Design Guidelines. Mr. Michel's tasks include horizontal and veri geometry, guardrail design, hydraulic analysis of the project area and the existing bridge, hydraulic modeling and reporting, establishing approximate requ right-of-way (ROW) limits, plan/pro sheet development, cross section development, development of additional plan sheets, and preparing cost estima					
08/22-	-Present	BLUEBONNET BLVD (PERKINS RD TO PIC providing engineering related services for E was required final construction plans, sign QA/QC review of GEC final roadway plans, and updating cost estimates and quantities	CARDY AVENUE): East Bluebonnet Blvd. from al design plans, traffic subconsultant coordin based on any addition	t Baton Rouge Parish, LA. Roadway QA/QC Engineer - This MOVEBR project c Perkins Rd. to Picardy Ave. which consisted of a design study and based on the signal inventory, and green infrastructure details. Mr. Michel's responsibilitie ation and plan changes based on design review comments from City-Parish an nal plan changes.	onsisted of use findings as included ud LADOTD,		

FIRM EMPL	OYED BY	G.E.C., Inc.		
NAME	Drake He	lton, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	0.5
TITLE	Professio	nal Civil Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	5
DEGREE(S)	/ YEARS / SPEC	TALIZATION	B.S. / 2019 / Civil Engineering	
ACTIVE REG	SISTRATION NU	JMBER / STATE / EXPIRATION DATE	48974 / Louisiana / 09-30-2026	
YEAR REGIS	TERED 202	DISCIPLINE	Civil Engineer	
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Road Design	
EXPERIENC (MM/YY–M	E DATES M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE E SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
Mr. Helton graduated from Louisiana State (P.E.) certification with the state of Louisiand visits, develops engineering, environmental,			University with a Bachelor of Science in Civil Engineering in 2019. In 2024, he completed his Profession a. He has experience with projects involving all aspects of Civil Engineering. He reviews design plans, co l, and hydraulic plans.	al Engineer onducts site
02/23	3-09/24	LA 447 CORRIDOR IMPROVEMENTS: LA project involved two roundabouts, a bridg subsurface drainage. Mr. Helton utilized M employer)	• Engineer Intern - Project included designing improvements along LA 447 south of 1-12 to Joe May e replacement, adding lanes and shoulders, and subsurface drainage . Mr. Helton designed road geo icrostation, Inroads, Hydrowin, and Microsoft office to design and perform calculations. (work done f	Road. This ometry and or previous
11/22	2-09/24	FLORIDA BLVD. CORRIDOR - 1-110-AIRI project included analyzing and designing s drainage, addressing comments, calculatin to analyze, design, and perform calculatio previous employer)	LINE: LA. Engineer Intern - For this MOVEBR Program for this Corridor & Mobility Enhancement p safe, ADA-compliant pedestrian and bicycle facilities along Florida Boulevard. Mr. Helton assisted i ng quantities, and developing plan sheets. Mr. Helton utilized Microsoft office, AutoCAD Civil 3D, and ns. This project benefits all pedestrians along Florida Blvd. while also adding safety to drivers. (wo	roject, this n analyzing ł HydroWin rk done for
09/22	2-09/24	CENTERVILLE ST. NW IMPROVEMENTS connect existing sidewalk to Denham Spri LADOTD. Mr. Helton used AutoCAD Civil 3 guidelines to ensure the safety of all pedes	: LA. Engineer Intern - Project for the City of Denham Springs to rehab Centerville St. NE, add bike ings Jr. High along Centerville St. NW. This LPA Project is funded, in part, by CRPC {MPO} and revie D, HydroWin, and Microsoft office to design and perform calculations. This project followed comp strians. (work done for previous employer)	lanes, and wed/let by lete streets
08/21	1-08/22	HANKS DRIVE SIDEWALKS PHASE 2: LA. Landis Drive. The project consisted of abo sidewalks utilizing Microstation, Inroads, N sheets and addressing comments in the pr	• Engineer Intern - Project for the City of Baton Rouge to design drainage and sidewalks along Hank but one mile of sidewalk and drainage to go underneath the sidewalk. Mr. Helton designed the dr Aicrosoft office, HydroWin2060, and LA DOTD hydraulic manual. Mr. Helton also assisted in developi ocess. (work done for previous employer)	s Drive and ainage and ng the plan
07/21	1-01/22	ELM GROVE GARDEN PEDESTRIAN IMP Elm Grove Garden Drive. Mr. Helton assist office and Microstation programs to acquir for previous employer)	ROVEMENTS: LA. Engineer Intern - Project for the City of Baton Rouge to design drainage and side ted in addressing comments, calculating quantities, and developing plan sheets. Mr. Helton utilized re and maintain accurate calculations as comments were addressed throughout the design process.	walks along d Microsoft (work done
01/20)-08/22	NORTH CANAL IMPROVEMENT PROJEC to relieve flooding issues in the Baker Estat for FEMA funding. The project consists of opinion of probable cost and assisted in ge	T: LA. Engineer Intern - Project to develop a HEC-RAS model and design drainage improvements in Network neighborhood. This project consisted of many challenges including limited Right of Way and exect widening the canal, utility relocation, culvert replacement, and road reconstruction. Mr. Helton devenerating plan sheets utilizing Inroads and MicroStation. (work done for previous employer)	Jorth Canal uting a BCA reloped the

FIRM EMP	LOYED BY	G.E.C., In	с.			
NAME	Jonath	nan Philley, E	I		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	3
TITLE	Engine	eer Intern			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	3
DEGREE(S)) / YEARS / S	SPECIALIZATION		B.S. / 2019 / Civil Eng	zineering	
ACTIVE RE	GISTRATIO	N NUMBER / STAT	FE / EXPIRATION DATE	34937 / Louisiana / 0	03-31-2026	
YEAR REGI	STERED	2022	DISCIPLINE	Engineer Intern		
CONTRAC	T ROLE(S) /	BRIEF DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project:	Road Design, Drainage	
EXPERIENC (MM/YY-N	CE DATES //M/YY)	EXPERIENC DATES SHC	E AND QUALIFICATIONS RELEVANT TO T ULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
Mr. Philley has 5 years of experience with root Prior to joining GEC, Mr. Philley worked with standards and guidelines required for roadw				adway widening and re h HRC Engineers, Surve way projects. He is also	ealignment projects. In addition, he has designed drainage systems and milling c yors, and Landscape Architects and Pritchard Engineering, affording him knowl o very familiar with AASHTO standards and guidelines.	ınd overlay. edge of the
04/2	1-04/23	LA SAFE Highway parking, s for the pr	AIRLINE AND MAIN COMPLET that would connect to Main St. T sidewalks were added down the e oject which utilized the LADOTD	E STREETS: LaPlace, I his path would accom ntire project corridor o Roadway Design Proce	LA. Engineer Intern - The project involved the design of a shared use path al modate pedestrians and bicyclists. Main St. was redesigned to accommodat on both sides, and bicycle lanes were added as well. Mr. Philley provided design edures and Details Manual.	ong Airline e on street i assistance
04/21	L-Present	BLUEBO additiona project a	NNET BLVD. (PERKINS TO PICA Il lane in each direction. The proje nd calculating quantities for storm	RDY): Baton Rouge, I ect includes replaceme n sewer design. (City-P	LA. Engineer Intern - GEC is designing the widening of Bluebonnet Blvd. to ent of existing bridges at Dawson Creek. Mr. Philley is providing design assista arish Project No. 19-CP-HC-0034)	include an nce for the
05/21	I-Present	WEST ST surface d drainage system w LADOTD	. TAMMANY HILLS DRAINAGE: (rainage system to bring it up to cu areas a subsurface drainage syste as designed according to the curr Hydraulics Manual).	Covington, LA. Designe rrent standards. This p em was designed. Qua ent LADOTD standards	er - This project involved milling and overlaying of the existing road, replacing t project required the analysis of the local drainage areas. Using the collected da ntities for the milling/overlaying and the drainage system were computed. Th s and guidelines (LADOTD Roadway Design Procedures and Details Manual an	the existing ta from the drainage d the 2011
05/2	4-06/24	GONZAL with duge and drain design, a	ES MUNICIPAL PARK PICKLEBAI outs, and bleachers, then designir nage of the site. Mr. Philley provid nd drainage design.	L COURTS: Gonzales, ng the base bid of 6 Pic ded design assistance	LA. Engineer Intern - This project involved the demolition of a current baseball ckleball courts, and the additive alternate of 10 courts. Including adding shelter for the project including calculating earthwork quantities, reviewed the surverse of the project including calculating earthwork quantities.	field along ers, grading ey, grading
02/24	1-Present	44-25040 Ascensio and the 0 developm	/ IIJA OFF-SYSTEM BRIDGE P n, and Assumption Parishes, LA . <i>B</i> Off-System Hydraulic Design Guide existing bridge, hydraulic modelin ment, development of additional p	ROGRAM, DISTRICT Engineer Intern - Mr. Pr elines. Tasks include h ng and reporting, esta olan sheets, and prepa	61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Bat nilley provides design in accordance with Federal Aid Off-System Highway Bridg orizontal and vertical geometry , guardrail design, hydraulic analysis of the p iblishing approximate required ROW limits, plan/pro sheet development, cre ring cost estimates for proposed design.	on Rouge, ge Program roject area oss section

FIRM EMPL	OYED BY	G.E.C., I	າເ.			
NAME	Jonathan	Puls, PE			YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	18
TITLE	Senior Pr	ofessiona	l Civil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2
DEGREE(S) /	/ YEARS / SPEC	IALIZATION		B.S. / 1999 / Civil Eng	ineering; B.S. / 2006 / Environmental Engineering	
ACTIVE REG	SISTRATION NU	JMBER / STA	TE / EXPIRATION DATE	34739 / Louisiana / 0	9-30-2025	
YEAR REGIS	TERED 200	09	DISCIPLINE	Civil Engineer		
CONTRACT	ROLE(S) / BRIE	EF DESCRIPT	ION OF RESPONSIBILITIES	Role on this Project: I	Drainage / Hydraulics	
EXPERIENCE (MM/YY-MI	E DATES M/YY)	EXPERIEN DATES SH	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; SPECIFIED IN THE APPLICA	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
		Mr. Puls restorati environn incremen and Jack	has experience with civil, environn on, drought studies, permitting ana nental assessments, and environm ntal cost analysis, and network adm sonville Districts.	nental, and coastal eng 'compliance, non-point ental impact statemer iinistration. He has wor	gineering projects, having worked on a wide variety of projects ranging from t source runoff improvements, and construction management, including feasibi. nts. He also has a background in natural stream design, cost estimating, ris rked with Corps Districts throughout the country including the New Orleans, Sar	ecosystem lity studies, sk analysis, ı Francisco,
03/22-	-Present	44-0412 Mr. Puls managed progress coordina Mr. Puls compare quantifie	8, H.004273.5 / I-49 CONNECTOR developed and currently maintain d in Microsoft Project for over 500 and completion of tasks and coord tes with the responsible parties. H also evaluated floodplain impacts ed existing and proposed project f ed findings and evaluation method	t (LAFAYETTE REGION s the project schedule individual tasks and 15 linating with task leade e presents the status of within rights-of-way r features located within s were presented for in	NAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette, LA. Project for the design phase of the I-49 Connector project in Lafayette. The project s task categories. Mr. Puls continually evaluates and updates the schedule by the ers. Mr. Puls also evaluates the critical path to identify tasks causing schedule sl of project tasks and overall schedule during weekly meetings with LADOTD ma required for the I-49 Connector in Lafayette. Working closely with project de in the 100-year floodplain to identify areas where floodplains would be imp inclusion in SEIS documentation.	Engineer - schedule is racking the ippage and nagement. signers, he pacted. The
07/24-	-Present	44-2504 and Assu under hy delineati evaluate surface e Mr. Puls resulting	D/IIJA OFF-SYSTEM BRIDGE PRO Imption Parishes, LA. <i>Hydrologic all</i> <i>y</i> pothetical storm events and the r on of the drainage area, evaluation and model hydrologic and hydrau elevations for the specified design s determined that a 2-D HEC-RAS is in increased turbulence and comp	GRAM, DISTRICT 61 L nd Hydraulic Engineer - esulting water surface on of watershed chara- ulic conditions. Model storm and potentially e model was required d olex hydraulics.	LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Baton Rouge, - Mr. Puls performed hydrologic and hydraulic modeling to estimate stormwate elevations for both the existing and proposed bridge structures. Specific task cteristics, and utilizing Global Mapper, HEC-HMS, HYDR2009, and HEC-RAS s results were utilized to determine if the proposed bridge design would incre exceed the low cord of the proposed bridge deck elevation. During project dev lue to the confluence of two drainages near the upstream side of the bridge	Ascension, r discharge <s included<br="">oftware to ease water velopment, ge, thereby</s>
09/20- SECTION 1	-Present 17 PROJECT	H.00410 updates manager	0 / I-10, LA 415 TO ESSEN LANE of the Project Management Plan (I s at LADOTD and GEC to provide u	ON I-10 AND I-12: Ba PMP), Initial Financial F pdated budget project	aton Rouge, Louisiana. Project Engineer - Mr. Puls assists with development a Plan (IFP), and Project Implementation Plan (PIP). This includes coordinating w tions, timelines, and project management documentation.	and annual vith project
2019	9-2021	PHASE I while co H&H mc Phase II Hydrauli each brid	I BRIDGE SCOUR ANALYSES: Mu nducting Phase II Bridge Scour Ana dels with HEC-HMS and HEC-RAS, Scour report included a summar cs Manual. When necessary, Mr. P dge by developing watershed chara	Itiple Parishes, LA. Pro- alyses on 45 bridges w developed and submin y of modeling method uls conducted site visit acteristics, calculating s	oject Manager and H&H Modeler - Mr. Puls served as project manager and H& vithin 23 Louisiana Parishes. For each bridge, Mr. Puls evaluated survey data, tted draft and final Phase II Scour reports, and coordinated with BDI and LAD ds and provided results and scour category recommendations, based on the ts and coordinated with survey teams to obtain needed project data. Mr. Puls steady state peak discharges, and estimating scour potential for applicable des	.H modeler developed OOTD. Each te LADOTD s evaluated ign storms.

FIRM EMPL	OYED BY	For	rte and	Tablada, Inc.				
NAME	Chad	Bacas, I	PE, MB	A	YEAF	S OF RELEVANT EXPERIENCE WITH THIS EN	MPLOYER	28
TITLE	Senio	r Vice P	resider	t	YEAF	S OF RELEVANT EXPERIENCE WITH OTHER	EMPLOYER(S)	1
DEGREE(S)	/ YEARS /	SPECIALIZ	ZATION		B.S. / 1995 / Civil Enginee	ng, MBA / 2001		
ACTIVE REG	GISTRATIO	N NUMBE	ER / STATI	E / EXPIRATION DATE	28786 / Louisiana / 09-30-	2025		
YEAR REGIS	STERED	2000		DISCIPLINE	Civil Engineer			
CONTRACT	ROLE(S)/	BRIEF DE	ESCRIPTIO	N OF RESPONSIBILITIES	Role on this Project: Road	Design		
EXPERIENC (MM/YY–M	e dates M/YY)	EXF DA	PERIENCE	AND QUALIFICATIONS RELEVANT TO T	IE PROPOSED CONTRACT; I.E., ' PECIFIED IN THE APPLICABLE N)ESIGNED DRAINAGE", "DESIGNED GIRDEF PR(S).	RS", "DESIGNED INTERSECTION", ETC. EXPE	RIENCE
01/12 -	- Ongoin	g g col	1.012308 COOK ROAD IMPROVEMENTS, LIVINGSTON PARISH, LA: Project Manager for Line and Grade Study, topographic surveying, environmental ervices, Right-of-Way surveying and Right-of-Way plans, design engineering, and construction plan for the proposed construction of a 4-lane boulevard with sidewalks and subsurface drainage for a connection between Juban Road (LA Hwy 1026) and Pete's Highway (LA Hwy 16). The engineering design was completed in January 2022.					
05/13 -	- Ongoin	g g an inc	OLD HAMMOND HIGHWAY-SEGMENT 1, EAST BATON ROUGE PARISH, LA: Project Manager responsible for an environmental study and engineering services to design and construct a four-lane boulevard with a raised median and turn lanes. The study proposed bike lanes on both sides of the roadway and one sidewalk located on the east side of Old Hammond Highway to improve connectivity for cyclists and pedestrians in the area. The project will also include traffic signalizations, utility relocations, testing, lighting, landscaping, right-of- ways, and environmental mitigation.					
07/20 – Ongoing H.014420 YELLOW JACKET BLVD. IMPROV surveying, environmental, engineering des restore and rehabilitate the deteriorating a transportation needs of the local commun Springs High School. This project was succe			YELLOW JACKET BLVD. IMPROV environmental, engineering desi d rehabilitate the deteriorating a tion needs of the local communi gh School. This project was succe	EMENTS, DENHAM SPRI gn and construction obser sphalt pavement. This imp y and facilitate section of ssful in receiving funding a	GS, LA: Project Lead responsible for ration for the construction that will rovement between LA 16 and LA 10 oadway which runs between Denha nd is starting its design phase.	overseeing the Stage O application, to include roadway/ shoulder mill and O31 (Hatchell Lane) is important to m am Springs Freshman High School ar	opographic I overlay to neeting the nd Denham	
11/14	-12/21	H.(ap rep	. 011825 oplication placeme	BUDDY ELLIS ROAD AND DRA n, topographic surveying, enviro ent, roadway patching, overlay an	INAGE IMPROVEMENTS nmental, engineering des d closed drainage (where r	LIVINGSTON PARISH, LA: Project 3n and construction observation for ecessary) to support higher traffic v	t Lead responsible for overseeing t or the construction that will includ olumes and lateral support of the pa	he Stage O le a bridge avement.
03/19 - 03/22 H.013546 THIBODEAUX ROAD AND DRA topographic surveying, environmental, eng and closed drainage (where necessary) to s to keep the roadway from deteriorating to t is a main connection between Frenchtown Throughway.			THIBODEAUX ROAD AND DRA ic surveying, environmental, eng d drainage (where necessary) to s e roadway from deteriorating to t connection between Frenchtown ay.	INAGE IMPROVEMENTS neering design and constr upport higher traffic volun he point where it's necess Road and Morgan Road an	CENTRAL, LA: Project Lead respond inction observation for the construct es and lateral support of the pavement ry for complete reconstruction and d serves as an alternate route betw	onsible for overseeing the Stage 0 a tion that will include roadway patchi nent. These repairs and upgrades are ultimately costing more to repair. Th veen Magnolia Beach Road (LA 64) a	application, ng, overlay e necessary nis roadway and Central	
01/03	3-07/05	S.F for Pro	P. 015-0 r constru oject wa	5-0035 US 165 TULLOS, OLLA, T ucting approximately 1.9 miles of us part of the DOTD TIMED progra	JLLOS, LA: Project Enginee a new rural four-lane divid m.	r for the Design and preparation of F d roadway on Route US 165 betwee	Preliminary and Final Roadway and B en the towns of Tullos and Olla in LaS	ridge Plans Salle Parish.

FIRM EMPLO	OYED BY	Forte an	d Tablada, Inc.					
NAME	Tyler Brar	nch, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER 13				
TITLE	Group Lea	ader - Roa	adway	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0			
DEGREE(S) /	YEARS / SPEC	IALIZATION		BSCE / 2012 / Civil Engineering				
ACTIVE REG	ISTRATION NU	JMBER / STA	TE / EXPIRATION DATE	41576 / Louisiana / 09-30-2025				
YEAR REGIS	TERED 201	17	DISCIPLINE	Civil Engineer				
CONTRACT	ROLE(S) / BRIE	F DESCRIPT	ION OF RESPONSIBILITIES	Role on this Project: Road Design				
EXPERIENCE (MM/YY–MI	E DATES M/YY)	EXPERIEN DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE			
12/22-0	Ongoing	H.00573 mile roa and a ro construc	H.005734 LA 447: Widening from I-12 to Joe May Rd., Livingston Parish, LA – Serving as the Project Manager for the preliminary plan design of ±3.0 mile road widening project which includes a bridge replacement over Taylor Bayou, relocations of Miller Rd. And a roundabout at O'Donovan Blvd., and a roundabout at Buddy Ellis Rd. in Walker, LA. Overseeing the design of horizontal and vertical geometry, roadway modeling, drainage, sequence of construction, etc.					
10/21-0	Ongoing	H.01467 enhance roadway from Aca	H.014675 FLORIDA BOULEVARD CORRIDOR ENHANCEMENT, EAST BATON ROUGE PARISH, LA: — Served as the lead designer for the ±\$60M corridor enhancement project in Baton Rouge, LA, for the MOVEBR program, overseeing the design of pedestrian and bicycle facilities along both sides of the roadway from N. 22nd St. To Airline Hwy., including crosswalk upgrades at all signalized intersections, and the design of subsurface drainage improvements from Acadian Thwy. To Foster Dr.					
08/17	2-12/21	H.01367 project i services,	I.013674 BENTON LANE IMPROVEMENTS, LIVINGSTON PARISH, LA: Served as the lead designer and Project Manager for the LPA road preservation roject in Denham Springs, LA (Livingston Parish), designing the alignments, profiles, geometrics, drainage etc. Served as the Project Engineer for the CE&I ervices, utilizing the federal/DOTD process.					
11/20-09/23 H.014420 YELLOW JACKET BOULEVARD Design of the ±0.31 mile road preservation project scope included mill and overlay an process.		0 YELLOW JACKET BOULEVARD f the ±0.31 mile road preservation cope included mill and overlay an	IMPROVEMENTS, LIVINGSTON PARISH, LA: Served as the Project Manager and Engineer of Rec project in Denham Springs, LA, overseeing the design of the alignments, profiles, geometrics, drainag d pedestrian facilities upgrades. Served as the Project Engineer for CE&I Services utilizing the fede	ord for the ge, etc. The ral / DOTD				
01/16	5-01/21	H.01316 and hydr	6 WHITTINGTON ROAD BRIDGE raulic analysis for the Off-System be	REPLACEMENTS, LIVINGSTON PARISH, LA: Served as the lead road designer and performed the ridge replacement in Livingston Parish.	hydrologic			
07/16-0	07/16-Ongoing H.013553 PENDARVIS LANE PHASE I, LIV (Livingston Parish). The project included ±0 RCB's with non-standard headwall wingwal		3 PENDARVIS LANE PHASE I, LI on Parish). The project included ±(th non-standard headwall wingwal	VINGSTON PARISH, LA: Served as the Project Manager for the LPA road preservation project in 0.78 miles of pavement rehab, subsurface drainage, and replacing a major crossdrain with double ls. Serving as the Project Engineer for CE&I services, utilizing the federal/DOTD process.	Walker, LA barrel 9x7			
01/15-01/22 H.0123 0 perform		H.01230 perform	1.012308 COOK ROAD IMPROVEMENTS, LIVINGSTON PARISH, LA: Served as a road designer for new and extended roadway and sidewalks and performed corridor modeling for a proposed 1.802 miles, 4-lane boulevard road extension in Livingston Parish.					
10/19	9-12/21 H.013531 PEAK LANE IMPROVEMENTS, in Walker, LA, designing the alignments, princluded CE&I services utilizing the federal		1 PEAK LANE IMPROVEMENTS, r, LA, designing the alignments, pro CE&I services utilizing the federal,	LIVINGSTON PARISH, LA: Served as the lead designer and project engineer for the road preservation project offles, geometrics, drainage etc. Performed the construction observation for the completed design. This project I/DOTD process.				
01/16	5-12/16	H.01152 perform	8 GEORGE MASHON ROAD AN ed the hydrologic and hydraulic an	D TRAVIS STREET BRIDGE REPLACEMENTS, LIVINGSTON PARISH, LA: Served as the road designer and alysis for existing timber bridge replacements in Livingston Parish.				
01/13	8-12/13	H.00917 and vert	9 WAX ROAD IMPROVEMENTS, ical design of the road and drainag	LIVINGSTON PARISH, LA: Served as a designer during preliminary phase of the design, performing e design through LA DOTD in Livingston Parish.	, horizontal			

FIRM EMPL	OYED BY	Forte	and Tablada, Inc.				
NAME	Alliso	n Schilling	, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	8		
TITLE	Senio	r Project N	lanager	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	35		
DEGREE(S)	/ YEARS /	SPECIALIZATI	ON	BSCE / 1998 / Civil Engineering			
ACTIVE REC	GISTRATIO	DN NUMBER /	STATE / EXPIRATION DATE	30265 / Louisiana / 09-30-2026			
YEAR REGIS	STERED	2002	DISCIPLINE	Civil Engineer			
CONTRACT	ROLE(S)	BRIEF DESCF	IPTION OF RESPONSIBILITIES	Role on this Project: Road Design			
EXPERIENC (MM/YY-M	e dates M/YY)	EXPER DATES	ENCE AND QUALIFICATIONS RELEVANT TO SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE		
43 years of experience		caree admin in the Admin Advis Media	Career History – Mrs. Schilling has over 40 years engineering experience in civil engineering, program management, project management and administration. She was employed at DOTD for 35 years where she worked 19 years in the Road Design Section in Baton Rouge and approximately 14 years in the DOTD Hammond District. In her tenure with the Hammond District, she was the Program Delivery/Design Engineering before becoming the District Administrator Mrs. Schilling has served on the Louisiana Statewide Transportation Plan Regional Planning Officials Advisory Committee, CRPC Technical Advisory Committee and numerous DOTD policy committees including Context Sensitive Solutions, Practical Design, Median Cable Barrier, Rumble Strips, Engineering Automation and Electronic Plans Management.				
08/12-01/17		DISTI in this chang to res River in 202	DISTRICT 62 DISTRICT ADMINISTRATOR, DOTD DISTRICT 62: Served for 5 years as the DOTD District Administrator in District 62. During her tenure in this position her main duties were to review plans developed in the District 62 Design Office including multiple interstate preservation projects, review change orders from district construction projects and coordinate with federal, state, and local agencies and elected officials, as well as the general public to resolve high profile issues. While serving as District Administrator she over saw the construction of the very high profile I-10 (French Branch – W. Pearl River Bridge) pavement preservation project which replaced the pavement on the I-10/I-12/I-59 interchange and won a Transportation Excellence Award in 2016.				
03/03-08/12 03/03-08/12 03/03-08/12 DISTRICT 62 ASSISTANT DESIGN ENGIN Program Delivery/Design Engineer manage System, Drainage, Safety, Access Manager or managed approximately 230 projects w State Line. She has extensive knowledge of delivery processes			RICT 62 ASSISTANT DESIGN ENGIN am Delivery/Design Engineer manage m, Drainage, Safety, Access Manage maged approximately 230 projects w Line. She has extensive knowledge of ery processes.	EER AND PROGRAM DELIVERY ENGINEER, DOTD DISTRICT 62: As Assistant District Design Engred the District 62 Design Office staff in the development of Preservation (Interstate and Non-Interstate ment, Transportation Enhancement, Complete Streets and TSM projects. Between 2003 and 2012 forth over \$500 million including all of the I- 55 rubbilization and overlay projects from I-12 to the the DOTD Preservation and TSM Programs, as week as DOTD policies and procedures and program a	;ineer then ate), Urban 2, designed Mississippi and project		
H.015102 CENTERVILLE ST IMPROVEM the development of preliminary and final Ave. to Denham Springs Junior High Schor as bicycle lanes. The project also incorpor well as to add ADA compliant pedestrian		102 CENTERVILLE ST IMPROVEME evelopment of preliminary and final of o Denham Springs Junior High Schoo ycle lanes. The project also incorpora s to add ADA compliant pedestrian fa	ENTS (N RIVER ROAD TO DENHAM SPRINGS JUNIOR HIGH SCHOOL), DENHAM SPRINGS, LA: construction plans to mill an overlay Centerville St from N. River Rd to Range Ave and add sidewalks f I. This project also included the addition of shoulders along Centerville from N. River Rd to Range Ave ated a TAP project to add sidewalks on the north side of Centerville from Range Ave. to Denham Spr acilities to all legs the Range Ave couplet.	Assisted in rom Range /e. to serve rings JHS as			
08/22	08/22-08/23 JAHNCKE ST IMPROVEMENTS (E 11TH preliminary and final plans to mill and ove measures where base failure had occurr construction administration.			AVE TO E 21 AVE), COVINGTON, LA: Project Manager for this project in the City of Covington rlay Jahncke St in Covington, LA. The project also included striping and full depth patches and other ed. Developed cost estimates and construction bid documents and assisted in the pre-bid confe	to develop corrective erence and		
04/22	2-04/23	H.014 const pavili	H.014419 EAST RAILROAD AVE (N RANGE AVE AND HUMMELL ST), DENHAM SPRINGS, LA: Assisted in the development of preliminary and final construction plans to replace the concrete pavement on East Railroad Ave. The project also involved adding drainage to improve pedestrian safety to a pavilion located with railroad right-of-way.				

FIRM EMPI	LOYED BY	Forte and Tablada, Inc.
NAME	Allison Se	chilling, PE Continued Resume
05/2	1-10/21	BOSTON ST IMPROVEMENTS (JEFFERSON AVE. TO LEE LN), COVINGTON, LA: Project Manager of this project in the City of Covington to develop preliminary and final plans to mill and overlay Boston St in Covington, LA. Worked with the DOTD District Engineering Office to obtain all necessary project permits and to ensure that the scope of work was satisfactory to the DOTD District Construction Office. Developed cost estimates and construction bid documents and assisted in the pre-bid conference and construction administration.
12/2	0-05/22	H.014420 YELLOW JACKET (LA 16 – MAPLE ST), DENHAM SPRINGS, LA: Assisted in the development of preliminary and final construction plans to overlay Yellow Jacket Road that runs between Denham Springs High School and Denham Springs Freshman Highschool. Project involved cross walk studies for multiple crosswalks between the two schools and realigning the road slightly to improve the sight distance and Maple St.
05/2	0-06/22	H.014358 AMITE CHURCH ROAD (LA 1019 – LA 16), LIVINGSTON PARISH, LA: Assisted in the development of preliminary and final construction plans to widen and overlay Amite Church Road including subsurface drainage where necessary to provide lateral support of the roadway.
10/1	9-10/21	H.013543 SIMS ROAD (LA 16–LA 1023), LIVINGSTON PARISH, LA: Assisted in the development of preliminary and final construction plans to widen and overlay Sims Road including subsurface drainage where necessary to provide lateral support of the roadway.
09/18-10/19		H.013531 PEAK LANE (US 190 – BURGESS AVE.), WALKER, LA: Assisted in the development of preliminary and final construction plans to overlay Peak Lane including subsurface drainage where necessary to provide lateral support of the roadway.
11/1	7-09/19	H.011827 DUNN ROAD (LA 1026–LA 1025), LIVINGSTON PARISH, LA: Assisted in the development of preliminary and final construction plans to widen and overlay Dunn Road including subsurface drainage where necessary to provide lateral support of the roadway.
09/1	8-10/19	H.013674 BENTON LANE (US 190 – S RIVER RD), DENHAM SPRINGS, LA: Assisted in the development of preliminary and final construction plans to overlay Benton Lane including subsurface drainage where necessary to provide lateral support of the roadway.
01/1	0-05/12	LA 1030 COCKERHAM ROAD IMPROVEMENTS, LIVINGSTON PARISH, LA: Project Manager and Lead Designer. Developed Preliminary and Final design plans for improvements to Cockerham Road, from Hatchell to Burgess Avenue. Improvements included pavement patching and overlay design, hydraulic analysis for installation of storm drains and catch basins and sidewalks. This project provided safety and complete street enhancements along Cockerham Drive.

FIRM EMPI	LOYED BY	Inf	finity Er	ngineering Consultants, L.L.C.				
NAME	Willia	m J. Th	nomassi	ie, P.E.	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	21		
TITLE	Princip	bal			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	12		
DEGREE(S)	/YEARS/S	SPECIALI	IZATION		B.S. / 1992 / Civil Engineering			
ACTIVE REG	GISTRATIO	N NUMB	BER / STATI	E / EXPIRATION DATE	27421 / Louisiana / 09-30-2025			
YEAR REGIS	STERED	1997		DISCIPLINE	Civil Engineer			
CONTRACT	ROLE(S) /	BRIEF DI	ESCRIPTIC	ON OF RESPONSIBILITIES	Role on this Project: Road Design, Drainage			
EXPERIENC (MM/YY–N	CE DATES 1M/YY)	EX DA	(PERIENCE ATES SHOU	E AND QUALIFICATIONS RELEVANT TO T JLD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE		
33 years o	of experier	As nce fo co	As Principal Partner of Infinity Engineering Consultants, Mr. Thomassie, P.E. is one of the registered supervising professionals for the firm and is responsible for the management of all engineering production. Mr. Thomassie's guidance and shaping of designs, along with construction support, has enabled project completion on schedule and with minimal adverse impact on commerce in the area.					
11/2012	2 – 3/202	21 21 do re	1ID-CITY urbs, and ocument esident ir	Y STREET ROADWAY IMPROVED I drainage structures repairs. Infin ation and justification of addition respection services throughout co	MENTS: Principal engineer for the identification and quantification of roadways, driveway aprons, ity developed a scoping report including the locations and descriptions of eligible repairs, added rep nal repairs for DPW to obtain additional funding from FEMA. Infinity's scope of services also included nstruction.	sidewalks, airs, photo d providing		
8/2013	- 1/2018	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ANAL SI treet and ne street onstructi	TREET/CITY PARK AVENUE INTI d City Park Ave. The project exte car line, bus lanes, vehicular traf on administration and resident ir	ERSECTION IMPROVEMENTS: Project manager for the redesign of transportation hub at the corn nded the streetcar tracks with a terminus in the first turnaround bay on the street. Final designs fic, cycling lanes, and pedestrian walkways into one transportation hub. Infinity's scope of service aspection services.	er of Canal integrated es included		
4/2009	- 10/201	L1 Fi fo dr	NORTH PERIMETER ROAD NEW ROAD DEVELOPMENT PROJECT: Infinity's project manager for a new 5,000 linear foot two lane Air Rescue ar Fighting (ARFF) equipment road and associated lighting at MSY Airport. The North Perimeter Road project involved improving the existing substandar foot gravel and dirt road into a (2) 12-foot per lane concrete road. Designs also included grading, storm water management ponds, subsurface and credit drainage, water line improvements, and underground power line replacement.					
6/2011	. – 5/2013	3 3 1 1 pr	ITY OF S nd cost e near feet roviding	LIDELL KOSTMAYER AVENUE RE stimating for the roadway repair a t of street, including striping, drai resident inspection services throu	SURFACING AND DRAINAGE IMPROVEMENTS: Project manager for the drainage design, material and replacement design and all utility improvements. The project included the asphalt mill and overl inage improvements, street alignment and handicap sidewalk ramps. Infinity's scope of services als ughout construction.	quantities, ay of 3,300 so included		
12/2009	9 – 9/201	1 to	A MEDIO correct ddition o	CAL CENTER ROADWAY AND IN deficiencies and support a new of greenscape, and ADA ramps. In	FRASTRUCTURE IMPROVEMENTS: Project manager for the design of 3,000 linear feet of streets a medical center. Designs included all roadway paving, including concrete and asphalt, drainage implifinity also provided construction administration and resident inspection services.	nd utilities rovements,		
Phase I: 9/ Phase II 3/	10/2010 2014 : 9/2014 2018	– Ba sc – th dr	ANNERI quare mi ne Oakwo rainage c	WOOD DRAINAGE IMPROVEM le neighborhood in Jefferson Paris ood Canal, and improvements to connections and replacement of o	ENTS PHASES 1 & 2 PROJECT: Project manager for the engineering design for drainage improver sh. Designs consisted of upgrading subsurface drainage on four (4) outfalls from the Bannerwood Sub subsurface drainage along Willowbrook Drive. The upgrading included miscellaneous improvement disturbed street, driveways, sidewalks, and utilities.	nent the ¾ odivision to is to lateral		
FIRM EMPL	OYED BY	Infinity Engineering Consultants, L.L.C.						
--	----------------------	---	---	--				
NAME	Ricardo C	ontreras, P.E.	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	9				
TITLE	Civil/Struc	ictural Engineering Manager YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)						
DEGREE(S)	/ YEARS / SPEC	IALIZATION	B.S. / 1994 / Civil Engineering					
ACTIVE REG	ISTRATION NU	IMBER / STATE / EXPIRATION DATE	28533 / Louisiana / 09-30-2025					
YEAR REGIS	TERED 199	DISCIPLINE	Civil Engineer					
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Drainage					
EXPERIENC (MM/YY-M	E DATES M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE				
30 years o	f experience	With over 30 years of civil engineering and roadway design, infrastructure assessment	d project management experience, Mr. Contreras, P.E. brings the following relevant specialties to t ; multi-model complete street design, and roadway drainage design.	his project:				
11/2016 -	- 4/2025(E)	WEST METAIRIE AVENUE REHABILITATIOn specifications, cost estimates, and coordinat Ave. The designs included the removal and the avenue, and implementation of stabiliz	DN AND CANAL STABILIZATION: Project manager responsible for the overall design, preparation o ation of all aspects of the design of roadway, crosswalk, bike lane, and drainage improvements to We replacement of concrete paving panels and repair and adjustment of select drainage outfalls that cro ation measures to the embankments of the canal.	f plans and st Metairie ss beneath				
9/2020 – stru	Under Con- Iction	BAINBRIDGE CANAL CLOSURE, ROADW the Bainbridge Canal realignment. The im Responsibilities included analysis of draina with downstream headwall.	AY IMPROVEMENTS, & STREET LIGHTING: Technical lead responsible for the design and devel provements included relocating a 1000 ft reach of drainage canal as well as the addition of stre age canal cross sectional layout, drainage outfall connections, adjacent infrastructure utilities, and	opment of et lighting. alignment				
4/2016 – 1/2018 CANAL STREET/CITY PARK AVENUE INTERSECTION IMPROVEMENTS: Assisted with construction administration duties for the intersection improvements where Canal Street is improvements called for roadway/sidewalk replacement, underground utility relocation de streetcar track foundations. Infinity's scope of services included resident inspection			ITERSECTION IMPROVEMENTS: Assisted with verification of project quantities during design intersection improvements where Canal Street meets City Park Avenue. The designs of the transport replacement, underground utility relocation design, terminal mechanical and lighting protection sy e of services included resident inspection.	and with rtation hub stems, and				
1/2016	- 3/2018	BANNERWOOD DRAINAGE IMPROVEMI construction progress and schedules, subm construction issues, and coordinating day-t	ENTS PHASE II: Responsible for construction management of project. Duties included overseeing and ittal reviews, review and approval of invoices, and project closeout, participating in progress meeting o-day operations for Resident Inspector.	I managing s, resolving				
9/2017 -	- 12/2019	CAROLYN PARK WATERLINE & SIDEWAL approximately 1,500 LF of 8" water line inc of services included construction administr	K REPLACEMENT: Technical lead responsible for providing construction management for the replace cluding the removal and replacement of the existing concrete sidewalks and roadway surfaces. Infir ation and resident inspection.	acement of hity's scope				
12/2015 – 9/2017 JOE BROWN PARK BRIDGE REPLACEME assisting with oversight and management o for the replacement of an existing vehicul associated headwalls and wingwalls, and re		JOE BROWN PARK BRIDGE REPLACEME assisting with oversight and management of for the replacement of an existing vehicul associated headwalls and wingwalls, and re	NT: Provided technical support during project design and construction phases. Technical oversign f construction progress and schedules, submittal reviews, review and approval of invoices, and proje lar bridge deemed to be in poor condition. The new bridge consisted of arched precast concrete egrading of the existing drainage canal.	nt included ct closeout e roadway,				
7/2019	- 1/2024	MAGNOLIA STREET BRIDGE REPLACEME and replacement of the existing bridge on asphalt roadway replacement, and civil site	NT: Civil engineer responsible for site civil design and overall project development for the drainage imp South Magnolia Street. The design tasks included the specification of an aluminum box culvert, the design	rovements e design of				
3/2020	- 1/2023	ALVIN CALENDER AIRFIELD VEHICULAR drainage canal parallel to Barrier Road. Thi called for the bridge to uniformly elevated	BRIDGE: Provided technical assistance for the establishment of a new vehicular bridge that span s bridge is approximately 50 feet wide by 160 feet in length and includes approach spans at both en- to span the canal and align with target grades, which is slightly higher than existing ground surfaces	ns across a ds. Designs 5.				

Fulfills MPR 5

FIRM EMP	LOYED BY	G.E.C., Inc.			
NAME	Bliss Berr	nard, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	2
TITLE	Vice Pres	ident Environmental / Business Develop	ment	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	8
DEGREE(S) / YEARS / SPEC	CIALIZATION	B.S. / 2014 / Civil E	Engineering	
ACTIVE RE	GISTRATION N	JMBER / STATE / EXPIRATION DATE	42709 / Louisiana	/ 03-31-2027	
YEAR REG	ISTERED 20	18 DISCIPLINE	Civil Engineer		
CONTRAC	T ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Projec	ct: Supplemental Environmental Assessment	
EXPERIEN (MM/YY-N	CE DATES MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRA	ACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPI LICABLE MPR(S).	ERIENCE
		Mrs. Bernard is a licensed Professional Engi resources coastal/habitat restoration, and Manager on several Environmental Assess and documents for local, state, and federal actively involved in statewide, regional, and is proficient in ArcGIS, Microstation, HEC-I awaiting certificate), and Certified Flagger Manual Course, and the LADOTD Traffic Engi	ineer, experienced wi traffic and safety en ments and Environn agencies. Mrs. Bern l local coalitions in es RAS, HEC-HMS, LAD training courses, NH gineering Process an	ith a range of engineering projects including roadway design, environmental plar ngineering. She has extensive knowledge of NEPA regulations and has served as mental Impact Statements and has assisted in processing numerous environmen nard served as the Project Manager for the Louisiana Strategic Highway Safety P stablishing plans to improve safety to ultimately reach Destination Zero Deaths. N OTD's HYDRWIN, and has completed the ATSSA TCS Refresher (course taken in HI Course NEPA & the Transportation Decision-Making Process, the LADOTD High ad Report Training Modules 1, 2, and 3.	ining, water the Project ntal permits lan and was Ars. Bernard March and hway Safety
10/22-Present SECTION 17 PROJECT H.004100 / I-10 CMAR, LA 415 TO ESSEN the incident management plan, public ar construction of Phase 1 and consisted of traffic flow may be restored as safely and locations, and queue clearing locations. M Bernard has assisted with public and stake of progress. Mrs. Bernard assisted in the d the corridor She performed an Environme			A LANE ON I-10 AN d stakeholder outre a planned and coord quickly as possible. rs. Bernard also assi holder outreach, pre evelopment of the ntal Justice (EJ) anal	ID I-12: Baton Rouge, LA. <i>Project Engineer</i> - Mrs. Bernard assisted with the pre- each, and the NEPA re-evaluation document. The plan was developed for pre- dinated multi-disciplinary process to detect, respond to, and clear traffic incide. She assisted in identifying emergency staging locations, detour routes, emerg isted with the preparation and submittal of the Corps permit for the LSU Lakes I eparing presentation materials, and providing updates on the project to inform s NEPA re-evaluation document which contained re-evaluation for seven modifica- lysis and developed all EJ sections of the document.	paration of paration of ents so that ency access Bridge. Mrs. takeholders ations along
06/1	15-05/17	H.011790 / RIVER ROAD NORTH WIDE engineering design to widen & overlay the LA, for approximately 1.2 miles. Mrs. Berna project. These plans were in accordance w structures, drainage, and sidewalk feature coordinated between utility companies, LA	NING AND OVERL e existing River Road ard assisted in the de vith LADOTD Design es, a more detailed ADOTD, and sub-com	AY: Denham Springs, LA. Engineer Intern & Project Manager - Mrs. Bernard d North roadway between Centerville Street and North Range Avenue in Denh esign of preliminary and final roadway plans and developed construction docum Guidelines for Preservation Projects. Due to the superelevation, curves, guard preservation plan set was developed. She served as the project manager for t tractors, and assisted with the permitting effort at the bridge crossing.	assisted in am Springs, ients for the rails, bridge this project,
01/1	16-04/17	H.011014 LA 3002: U-TURN: Denham Spri preliminary and final plans for the propose North Range Road and South Range Road categorical exclusion, preliminary and fir improvements, signage and striping, and s profile sheets, drainage plan and profile sh using LADOTD's HYDRWIN program.	ngs, LA. Engineer Int ed LA 3002 U-Turn in d (LA 3002), subsurf nal design plans, w ubsurface drainage. neets, quantities, geo	tern & Project Manager - Mrs. Bernard served as the Project Manager and assist Denham Springs, Louisiana. This project provides for the construction of a U-Tu face drainage, and roadway striping modifications. She assisted with the env which included the design of a new roadway , widening existing roadways, . She developed final plan documents, which included title sheet, typical section ometric layout, detail sheets, cross sections, and completed a subsurface drain	ed with the rn between vironmental intersection ns, plan and age analysis
05/1	17-05/20	H.001271 CANE RIVER BRIDGE CHURCH as the project manager. Prime consultant outreach, & engineering & environmenta	assisted LADOTD a services necessary	IMENTAL ASSESSMENT: Natchitoches Parish, LA. <i>Project Manager</i> - Mrs. Ber and FHWA to formulate a concise public document, or EA. She provided plan y to gauge public support & document information necessary for LADOTD ar	nard served ning, public 1d FHWA to

FIRM EMPI	LOYED BY	G.E.C., Inc.
NAME	Bliss Ber	nard, PE Continued Resume
		reach an environmental decision as required by NEPA. She analyzed project impacts by coordinating and assisting in developing various technical studies, including line & grade study, GIS mapping, wetland delineation & threatened and endangered species study, phase 1 EA, air & noise impact studies, and cultural resources surveys. She directed all activities for numerous stakeholder meetings, public meetings, and public hearings. Through the compilation of all studies required by NEPA and public and agency involvement, she developed the Final EA for the replacement of the Cane River Bridge. She developed and received approval on the first known LADOTD and FHWA "net benefit determination" for Section 4(f) properties in the State of Louisiana. She developed a Finding of No Significant Impact (FONSI) document, which was approved by FHWA and LADOTD. This document was provided to FHWA and will be used as a template for future FONSIs developed in partnership with LADOTD.
02/1	8-12/21	H.006459 RODDY ROAD/CHURCHPOINT ROAD ROUNDABOUT: Ascension Parish, LA. <i>Project Manager</i> - Mrs. Bernard served as Project Manager on this project re-design. Due to funding restrictions, the project was not constructed in a timely manner, and Ascension Parish issued the prime consultant with the project in 2018 to update the original submittals. She directed survey crews and traffic data collection crews in updating existing topographic survey and traffic data to update outdated information. Using this information, she developed an updated intersection study report and environmental categorical exclusion report. She assisted in updating all other prior plan documents in accordance with new LADOTD standards including geotechnical and pavement design, engineering plans, drainage plans, right-of-way maps, and all other bid and construction documents.
06/1	9-09/20	STAGE 0 FEASIBILITY STUDY OF MODERN ROUNDABOUTS: Lafayette Parish, LA. <i>Engineer</i> - The project entailed developing Stage 0 Feasibility Studies for 30 conceptual roundabout locations throughout Lafayette Parish for the Acadiana Metropolitan Planning Organization. Mrs. Bernard served as an engineer, and was responsible for data collection, feasibility studies, environmental inventory, and conceptual design of numerous roundabouts. She developed feasibility reports and environmental inventory reports in accordance with LADOTD. She managed the traffic sub-consultant, ensuring quality control of all submittals.
06/14	4-09/15	H.011248 / JULIA STREET WIDENING AND OVERLAY & H.011249 MAPLE STREET OVERLAY: Denham Springs, LA. Engineer Intern - Mrs. Bernard assisted with the Stage 0 and Stage 3 LADOTD Services for the Julia Street and Maple Street Overlay Projects in Denham Springs. She assisted in the preparation of the Stage 0 Study and subsequent categorical exclusion. Mrs. Bernard assisted in the development of preliminary and final plans, ensuring compliance with LADOTD standards. She attended project meetings, made site visits to determine roadway characteristics, and assisted in the preparation of the letter size plan set in accordance with LADOTD Design Guidelines for Preservation Projects. She also completed a drainage analysis of the proposed storm sewer system utilizing LADOTD's hydraulic software HYDRWIN.
03/24	-Present	H.004279.5 / I-49 CONNECTOR, LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE: Lafayette, LA. <i>Project Manager/Engineer</i> - GEC is serving as a sub-consultant for the I-49 Connector Project and provides program management and project controls, ITS design, road and bridge design, lighting and power systems design, environmental evaluations, and quality control. Mrs. Bernard is an engineer developing the project management plan (PMP), assisting with the initial financial plan (IFP) and the cost and schedule risk assessment (CSRA).
06/1	4-05/20	H.972169.1 (4400005388) AND 4400002481. LOUISIANA DOTD SHSP IMPLEMENTATION: Statewide. <i>Project Manager-</i> The SHSP is data driven and includes proven strategies for reducing traffic fatalities and injuries on Louisiana roadways. Ms. Bernard served as the Project Manager and provided technical assistance to the SHSP, facilitated breakout sessions, and prepared meeting documents at regional coalition meetings, statewide emphasis area team meetings, and implementation team meetings. She assisted LADOTD in providing onsite and remote technical assistance for other road user programs/projects, including bicyclist, pedestrians, transit, drivers, and other users and programs. Ms. Bernard assisted with developing detailed action plans for each emphasis area in the SHSP, assisting emphasis area teams and regional safety coalitions in developing new strategies, coordinating the statewide action plans with the regional safety coalition action plans, providing emphasis area team and regional safety coalitions with support as needed, maintaining the overall SHSP public and partner involvement process, refining the SHSP project selection process, and various other tasks in establishing an SHSP for the State of Louisiana.

FIRM EMPLOYE	ED BY	G.E.C., Inc.		
	Nicole For	syth, El	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	10
TITLE N	NEPA Spec	cialist / Project Manager	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	14
DEGREE(S) / YE	EARS / SPECI	ALIZATION	B.S. / 2001 / Environmental Engineering	
ACTIVE REGIST	TRATION NU	MBER / STATE / EXPIRATION DATE	19841 / Louisiana / 09-30-2025	
YEAR REGISTER	red 200	1 DISCIPLINE	Engineer Intern	
CONTRACT RO	DLE(S) / BRIEF	DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Supplemental Environmental Assessment	
EXPERIENCE DA (MM/YY-MM/	OATES 'YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
		Ms. Forsyth has worked as an environmen projects for various types of projects include coastal resource projects. Her expertise is i and Air Studies, and Phase I Environmenta experience includes tasks such as overall p multiple agencies, public involvement, and e	tal professional in the public and private sector for over 20 years. During her career, she has man- ing transportation, military facilities, USACE civil works (including levees and dams) and regulatory pr in the overall project management, preparation and review of NEPA documents (EISs, EAs, CEs along I Site Assessments. Her expertise also lies in multi-agency permitting and Section 10/404/408 comp roject management, schedule and budget management, managing multidisciplinary teams, coordir environmental impacts analysis following NEPA regulations.	aged NEPA ojects, and with Noise liance. Her nation with
07/24-Pr	esent PROJECT	H.004100 / I-10: LA 415 TO ESSEN LANE re-evaluation document. She also assisted LADOTD's coordination with SHPO. She also the Section 4(f) documentation that was su	ON I-10 AND I-12: Baton Rouge, LA. <i>NEPA Specialist</i> - Mrs. Forsyth assisted with the preparation o in the determination of properties that could potentially have cultural resources impacts under Sect so helped to identify properties that would need to have a Section 4(f) evaluation performed and as ubmitted to FHWA.	f the NEPA ion 106 for sisted with
11/22-Pr	resent	LOUISIANA INTERNATIONAL TERMINAL consultant in developing the Environmenta Orleans. The Port of New Orleans is investin sizes, providing goods to support Louisiana with the National Environmental Policy Act the overall development of the Environme Bernard Parish. Ms. Forsyth is assisting the with the client, development and ongoing	(LIT) ENVIRONMENTAL ASSESSMENT: New Orleans, LA. Deputy Project Manager - GEC is serving as al Assessment for the new Louisiana International Terminal (LIT) Port in Violet, LA on behalf of the P ag in a new \$1.8 billion container terminal project—The Louisiana International Terminal – to serve ver a's homes and businesses. GEC is preparing a detailed impact analysis for the proposed terminal in a t (NEPA) and is conducting a range of studies addressing concerns raised by the public. GEC is resp ntal Assessment (EA) in order to secure necessary permits and permissions to construct the propose e Project Manager with day-to-day project management, attending management meetings and corr updates to the project schedule, management of subconsultants, and preparation of sections of the	s the prime ort of New essels of all accordance onsible for ed LIT in St. responding e EA.
10/15-0	95/17	H.004987 / US 190 / COLLINS BOULEVAR of an Environmental Assessment (with Fin Covington. She assisted with the overall d impacts on wetlands, land use and comm impacts, floodplains, demographics and en	D WIDENING (LA 25 TO US 190B): Covington, LA. <i>NEPA Specialist</i> - Ms. Forsyth participated in the p nding of No Significant Impact) and Line and Grade Study to widen approximately three miles of evelopment of the EA report, technical reports, FONSI, and interagency coordination and analyses unity character, economic activities, cultural and recreational resources, Sections 4(f) and 6(f), no evironmental justice, relocations of homes and businesses, and T&E species and their habitat.	oreparation U.S. 190 in of project vise and air
2015-20	2016	H.004273.5 / I-49 CONNECTOR, LAFAYET Forsyth prepared a Phase I ESA for the I-49 and local environmental databases were re performed. Recognized environmental con	TE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE: Lafayette, LA. Environmental Professe O Connector. The Phase I ESA was performed in accordance with the ASTM E 1527-13 standard. Fed viewed, historical records were researched, pertinent persons were interviewed, and a site reconnais ditions were determined during assessment and were provided in a Phase I ESA report.	<i>sional</i> - Ms. Ieral, state, ssance was
2015-20	017	HOUMA NAVIGATION CANAL DEEPENI Parish, LA. NEPA Specialist - GEC prepared a Project under Section 203 of the Water Res of impacts and compliance with environme	NG, SECTION 203, FEASIBILITY REPORT AND ENVIRONMENTAL IMPACT STATEMENT (EIS): T a Feasibility Report and Environmental Impact Statement (EIS) for the Houma Navigation Canal (HNC) ources Development Act of 1986. Ms. Forsyth assisted in the development of the Final EIS, including a ental regulations. Contract No. DNR 2503-10-8, DNR 2503-13-42.	errebonne Deepening assessment

FIRM EMP	LOYED BY	G.E.C., Inc.			
NAME	Barry Mc	Соу		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	33
TITLE	Senior En	vironmental Scientist		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	1
DEGREE(S)) / YEARS / SPEC	CIALIZATION	B.S. / 1989 / Wildlife	Conservation	
ACTIVE RE	GISTRATION N	JMBER / STATE / EXPIRATION DATE	N/A		
YEAR REGI	STERED N/	A DISCIPLINE	N/A		
CONTRACT	T ROLE(S) / BRI	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Environmental - Wetlands, Threatened and Endangered Species (T&E)	
EXPERIENC (MM/YY-N	CE DATES /IM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	Γ; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
		Mr. McCoy has over 33 years of experience threatened and endangered species survey environmental phase I site assessments (Ph for the endangered red-cockaded woodpect located in Sterlington, Louisiana, that invo along three alternative alignments. He also Mr. McCoy has performed wetland delineat private clients.	in the environmental r vs, Habitat Evaluation ase I ESAs), and hazard ker (RCW) along U.S. H lved wetland delineation conducted a wetland ions and provided assis	resources field. His experience includes wildlife hazard assessments, wetland d Procedures (HEP), preparation of National Environmental Policy Act (NEPA) dous, toxic, and radioactive waste investigations. Mr. McCoy managed a reloca lighway 165 in Louisiana. He managed a bridge and roadway approach reloca ons, threatened and endangered species surveys, noise analysis, and air qua delineation along portions of Louisiana Highway 171 proposed for expansion to stance with 404 permit applications on numerous sites throughout southeast L	elineations, documents, tion project tion project lity analysis o four lanes. ouisiana for
04/17	7-Present	H.002281 / LA 66: BIG BAYOU SARA BR monitoring the nesting activities of cliff s bridge. He was tasked with keeping record while construction activities were conduct for informing the contractor and suspendi to provide a summary of the nesting activit Wildlife Service coordinate construction in	RIDGE REHABILITATION wallows under the br ds of active and inactive red. If construction active ing those tasks until no ities. The species is ad a manner that is prote	ON: West Feliciana Parish, Louisiana. <i>Field Inspector</i> - Mr. McCoy was respridge on a weekly basis while contractors were conducting rehabilitation take nests, number of birds present at the site, nesting activities, and behavior extivities disrupted the normal activities of the nesting cliff swallows, he was lesting was complete. Weekly reports were submitted to U. S. Fish and Wild dressed in the Migratory Bird Treaty Act, and GEC assists LADOTD and the U ective of the birds.	onsible for isks on the of the birds responsible llife Service .S. Fish and
01/0	02-12/10	THE TIMED PROGRAM, ENVIRONMENT threatened and endangered species surve highway right-of-way required for the hig and federal agencies for review and conce Inspections of structures impacted by the	AL: Statewide, LA. Lease eys; and the required hway expansion. He v urrence. Additionally, proposed construction	d Field Biologist - Mr. McCoy was responsible for the completion of wetland de permit applications necessary for construction of approximately 250 miles of was responsible for preparing findings reports and submitting to the approphe assisted with Phase I Site Assessments (ESAs) within the right-of-way and	dineations; of proposed priate state d Asbestos
01/1	.4-05/17	H.004987 / US 190/COLLINS BOULEVARE a wetland delineation, preparing a wetland	WIDENING (LA 25 T d report, and performi	O US 190B): Covington, LA. <i>Wetland Scientist</i> - Mr. McCoy was responsible for ing T&E species analysis for this FHWA LADOTD Environmental Assessment P	conducting 'roject.
11/21	L-Present	SHARP RD.: Mandeville, LA. Lead Field W environmental permitting, for this project the wetland delineation within the project wetland habitats that occur within the pro Orleans District Corps of Engineers for revi	Vetland Scientist - GEC that is currently unde area. During field sur ject area. He utilized ew and verification. H	C provided design services for the road improvements as well as provide the er construction. Mr. McCoy was the Senior Wetland Scientist responsible for rveys of the project area, Mr. McCoy collected the necessary data to identify a the field data to prepare the wetland delineation report that was submitted le was also responsible for preparing the necessary wetland permit application	e necessary conducting nd map the to the New ons.
2011	-Present	GNOEC, LAKE PONTCHARTRAIN CAUSE improvements to the Causeway. GEC prep conducts wetland delineations, prepares w	WAY: St Tammany and pares and conducts re wetland/water body su	d Jefferson Parishes, LA. Wetland Scientist - Mr. McCoy serves as Wetlands S gulatory Solicitations of Views, prepares responses to regulatory comments urvey reports and prepares Coastal Use Permit applications.	pecialist for s/guidance,

FIRM EMPL	OYED BY	Arcadis		
NAME	Lauran Sv	vitzer, MA, RPA, CPM	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	3
TITLE	NEPA Pro	ject Manager	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	17
DEGREE(S)	/ YEARS / SPEC	IALIZATION	B.S. / 2004 / Anthropology, Minor in English; M.A. / 2009 / Anthropology	
ACTIVE REG	SISTRATION NU	IMBER / STATE / EXPIRATION DATE	Professional Archaeologists (RPA) – #16637	
YEAR REGIS	TERED 200	DISCIPLINE	Archaeology	
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Archeologist/Principal Investigator	
EXPERIENCI (MM/YY-M	e dates M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
		Ms. Switzer is a qualified archaeologist (3 and trained prehistoric and historical arc Ms. Switzer's professional experience inclu agreement document development, tribal environmental compliance inspection, artij teaching, and public outreach. She has exp background research, writing historic conte successfully completed the Advisory Counc	6 CFR 61) with 18 years of experience in the field of cultural resources management. She is a project haeologist. Lauran has worked on a wide range of projects in rural and urban contexts througho ides National Environmental Policy Act (NEPA) planning, transportation planning and design-build, S consultation, field management, archival research, laboratory management, state/federal permit c fact analysis and curation, technical and research report writing, historical surveys, archaeological as erience in all facets of NEPA documentation and technical report development and production, includ ext statements, and crafting National Register of Historic Places (NRHP) eligibility evaluation statemer cil on Historic Preservation's What is Section 106 Training.	t manager ut the U.S. Section 106 compliance, sessments, ling historic nts. She has
2019	- 2020	MEGA PROGRAMS CULTURAL RESOURC Specialist. Section 106 Lead and project su three programs that included three to five Program. Tasks included tracking Section consultation, reviewing project plans for Sec	CES MANAGEMENT SUPPORT: Washington State DOT (WSDOT), King County, WA. Embedded Cultural report when WSDOT cultural resource manager was on medical leave to coordinate cultural resource design-build projects each, including SR 520 Program, I-405 Program, and Alaskan Way Viaduct Re 106 commitments, served as PI for cultural resources survey s and technical reports, tribal coordinate cultural 106 concerns, APE letters, and status of deliverables and SHPO reviews at weekly project deliverables.	al Resource e needs for placement nation and y meetings.
2019	- 2020	SR 167 AUXILIARY LANE AND TOLLING cultural resources survey and lead report tolling and lane improvements where SR 1	IMPROVEMENTS: WSDOT/HNTB, King County, WA. Principal Investigator/Project Manager. Resp t author for design-build project that involves constructing an auxiliary lane and sign bridges as we 67 intersections I-405 in Kent.	onsible for ell as other
2020 –	Ongoing	I-85 WIDENING PHASE 3 FROM NORTH Environmental Manager. Leads NEPA doct aggressive schedule, therefore expedited of all the disciplines to stay on track for envir	H OF SR 11 TO NORTH OF U.S. 441: Georgia Department of Transportation (GDOT), Gwinnett C umentation for this variable scope 13-mile interior highway widening design build project. The pro document preparation time and agency reviews is critical. Conducts weekly team check-ins / status of onmental documentation approval by end of June 2021 when project is scheduled for letting.	County, GA. ject has an updates for
2021 –	Ongoing	PROJECT ADVENTURE: GDOT, Morgan, environmental team on three fast-paced, co a new interchange funded by FHWA and wil	Walton, and Newton Counties, GA. Environmental Manager and NEPA Lead. Responsible for I omplex design build projects. Two of the projects are state funded and subject to GEPA review. The thir II be a NEPA Environmental Assessment (EA). Currently drafting the EA and managing a very compressed	eading the ⁻ d project is d schedule.
2020 –	Ongoing	GDOT ENVIRONMENTAL SERVICES REG team with task orders for Region 3 on-call the results of environmental studies into environmental studies and NEPA or GEPA of Procedures Manual, Published Environmental	GION 3 ON-CALL: GDOT, Districts 5 & 7, GA. Deputy Environmental Project Manager. Assisting environmental studies, reports, and documents. Scope includes documents that are compliant with NEPA or Georgia Environmental Policy Act (GEPA); conduct QA documents, and plan and conduct public outreach on behalf of GDOT in accordance with GDOT's Environmental Guidance, and the Georgia Department of Transportation Plan Development Process.	ironmental s compiling reviews of ironmental
2016	- 2020	I-5 / MARINE VIEW DRIVE TO SR 528 F Monitoring Plan (AMP) for design-build in area survey.	PEAK USE SHOULDER LANES: WSDOT / HNTB, King County, WA. Project Manager. Authored Arch nterchange improvement. Drafted and finalized AMP as well as coordinated the Steamboat Springs	maeological mitigation

FIRM EMPLOYED BY	Arcadis			
NAME Luis Vela	squez, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	9
TITLE Senior Tra	ansportation Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	1
DEGREE(S) / YEARS / SPEC	CIALIZATION	B.S. / 2012 / Civil Eng	zineering	
ACTIVE REGISTRATION N	UMBER / STATE / EXPIRATION DATE	45025 / Georgia / 12	/2025	
YEAR REGISTERED 20	19 DISCIPLINE	Civil Engineer		
CONTRACT ROLE(S) / BRI	EF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Air Quality/Noise Modeling	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
	Luis Velasquez is an air quality and noise developing environmental air and noise s using CAL3QHC, Mobile Source Air Toxics (analysis also includes a review of conform Experienced performing noise studies in ac	e analyst with seven y becial studies for a wi MSAT) analysis, PM2.5 ity to the National Aml cordance with FHWA H	vears of experience in transportation engineering. His engineering experience de variety of roadway and bridge projects. Services included carbon monoxic review, ozone conformity review and Traffic Noise Model 2.5 (TNM 2.5) analy bient Air Quality Standards (NAAQS) for ozone, nitrogen dioxide, sulfur dioxide Highway Traffic Noise Policy and Guidance and state DOT noise policies.	ce includes de analysis ısis. The air e, and lead.
12/18 – 05/19	I-40 AT I-77 AT INTERCHANGE IMPROV Build Team (Flatiron Constructors), review completed, included becoming familiar wit expert review provided by Luis indicated th A risk assessment workshop was completed barriers along the project limits.	EMENTS: TIP Project ring the design noise r th the NCDOT Traffic No nat the design noise rej ed with the roadway e	I-3819, Flatiron Contractors, NC. Noise Subject Matter Expert for the proposi eport as part of the pre-bid tender phase of the project. The noise analysis is oise Policy and providing details of the design noise report to the Design-Build port completed back in 2010 did not meet new NCDOT Traffic Noise Policy req ngineers, noise team, and contractors to determine how best to estimate for	ing Design- review was I Team. The juirements.
07/15 – 05/19	I-85 HOT LANE EXTENSION: PI# 110600, Team (C.W Matthews Contracting) reviewin Design-Build Team and coordinated with re required noise barriers, while still meeting estimated cost savings of \$1.3M to the cor	CW Matthews Contraining the noise report as poadway design engined GDOT Noise Policy, an intractor.	cting Company, Atlanta, GA. Noise Subject Matter Expert for the proposing D part of the pre-bid tender phase of the project. Provided details of the noise re ers for optimal placement of the required noise barriers. Re-designed and opt d reduced the project total barrier area by an estimated 50,000 square feet, p	esign-Build port to the imized the roviding an
07/17 – 05/19	I-85 GENERAL PURPOSE LANE WIDENIN Design-Build Team (C.W Matthews Contrac the required noise barriers, while still mee an estimated cost savings of \$500K to the	G: PI# 110610, CW Ma cting) reviewing the no ting GDOT Noise Policy contractor.	atthews Contracting Company, Atlanta, GA. Noise Subject Matter Expert for the ise report as part of the pre-bid tender phase of the project. Re-designed and , and reduced the project total barrier area by an estimated 20,000 square feet	• proposing optimized t, providing
09/13 - 03/16	I-285 AT RIVERSIDE DRIVE: GDOT, Atlanta Drive interchange modification. Project res build conditions using TNM 2.5. Identified of noise mitigation measure (barriers) inclu	a, GA. Traffic Engineer. ponsibilities included o potential traffic noise i uding benefit-cost ana	Conducted a traffic noise impact assessment for the proposed Interstate 285 a data collection of existing conditions, and traffic noise modeling for existing, no mpacts based on the proposed interchange configuration, and investigated the lysis . Compiled all noise analysis and results into narrative reports and figures	at Riverside o-build and e feasibility S.
04/14 – Ongoing	I-285 @ GA 400: GDOT, Metro Atlanta, C interchanges to support an Environmenta and traffic noise modeling for existing, no interchange configuration. Investigated the	GA. Traffic Engineer. C I Assessment, public i p-build and build cond e feasibility of noise mi	onducted traffic noise impact assessment for one of Metro Atlanta's most nvolvement, and NEPA Re-Evaluation. Performed data collection of existing litions using TNM 2.5. Identified potential traffic noise impacts based on the itigation measures (sound barriers) including benefit-cost ratios.	congested conditions, e proposed

FIRM EMPL	OYED BY	Arcadis
NAME	Luis Vela	Squez, PE Continued Resume
12/15	- 11/17	I-16 AT I-95 INTERCHANGE RECONSTRUCTION, I-16 WIDENING: GDOT, Chatham County, GA. Air and Noise Engineer. Conducted traffic noise impact assessment and air analysis report for the I-16 at I-95 interchange reconstruction and I-16 Widening Project in Savannah, GA. Responsibilities included data collection of existing conditions, creation of traffic noise modeling for existing, no-build and build conditions using TNM 2.5. Identified potential traffic noise impacts due to proposed interchange configuration and investigated the feasibility of noise mitigation measure (barriers) including benefit-cost analysis. Air quality analysis included CO analysis using CAL3QHC and coordination on MSAT, PM2.5, and ozone analysis. The report also includes a review of conformity to NAAQS for ozone, nitrogen dioxide, sulfur dioxide, and lead.
11/16-Present		I-20 OVER SAVANNAH RIVER BRIDGE REPLACEMENT: GDOT, Richmond County, GA. Traffic Engineer. Conducting traffic noise impact assessment and air analysis report for the I-20 Over Savannah River Bridge Replacement Project in Augusta, GA. Responsibilities included data collection of existing conditions, creation of traffic noise modelling for existing, no-build and build conditions using TNM 2.5. Identify potential traffic noise impacts due to proposed interchange configuration and investigates the feasibility of noise mitigation measure (barriers) including benefit-cost analysis. Air quality analysis included CO analysis using CAL3QHC and coordination on MSAT, PM2.5, and ozone analysis. The report also includes a review of conformity to the NAAQS for ozone, nitrogen dioxide, sulfur dioxide, and lead.

FIRM EMPL	OYED BY	Coastal Engineering Solutions, LLC		
NAME	Mike Schu	ılze	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	7
TITLE	Project M	anager/Senior Environmental Scientist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	19
DEGREE(S) /	YEARS / SPEC	IALIZATION	B.S. / 1997 / Environmental Studies	
ACTIVE REG	ISTRATION NU	MBER / STATE / EXPIRATION DATE	N/A	
YEAR REGIS	tered N/A	DISCIPLINE	N/A	
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Biologist/Wetlands (Permit Specialist)	
EXPERIENCE (MM/YY–MI	E DATES M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
26 years of experience Department of Natural Resources evaluation federal, state, and local government agency		Mike Schulze has a wide variety of experied management projects throughout the contri documents, and permitting services (Coast Department of Natural Resources evaluat experience, and an extensive background of federal, state, and local government agence	ence in managing, planning, and permitting of water resources, ecosystem restoration, and nature nental U.S. Mike specializes in Project Management, the preparation of National Environmental Policy al Use Permits, Section 10/404). Mike previously worked at the Office of Coastal Management at the ring Coastal Use Permits as part of their joint permit application process. He has statewide and a f local knowledge and potential issues. Mike has proven his ability to meet with the public, subcontra- ries to resolve conflicts regarding highly complex and often controversial issues.	ว! resource Act (NEPA) e Louisiana nationwide actors, and
12/24	- 03/25	FRIERSON FUEL STOP: Frierson, LA. Perm to include the Office of State Fire Marshall,	nit Specialist – Ongoing project to develop permits for the self service diesel fueling station along In , DOTD driveway, and DeSoto Parish permits.	terstate 49
10/19 - 05/24LIVINGSTON PARISH AMITE RIVER AND BLILA. Environmental Scientist - This project invofinal plans and specifications, and bid phase se			BLIND RIVER OUTFALL MAINTENANCE DREDGING AND MARSH CREATION PROJECT: Livings involved the site evaluation, engineering alternatives analysis, cost analysis, engineering, design, per services for the maintenance dredging of the outfalls of the Amite and Blind Rivers.	ton Parish, permitting,
12/21	- 05/23	LOUISIANA GATEWAY TERMINAL PERM and associated marine and terminal infrast terminal with a berth design that will be en the Panama Canal. Mike managed the dev permitting narrative.	MITTING: Plaquemines Parish, LA. Permitting Specialist– Permitting to construct a container expo tructure in Plaquemines Parish. The purpose of this project is to develop 149 acres of property as a able the Plaquemines Port Harbor and Terminal District (PPHTD) to dock the largest vessels currently relopment of the Coastal Hazards Study, Stormwater Pollution Prevention Plan, and assisted in deve	rt terminal a container / traversing eloping the
03/14	- 11/18	PROGRAM / CONCEPTUAL DESIGN MA Mike managed the programmatic permitt Mike worked with the design engineers by constructability, mitigation, and synergy w plane, as well as assisting the design engine for estimating oyster lease acquisition cost contractors working under the program.	NAGEMENT AND PROGRAMMATIC PERMITTING: Plaquemines Parish, LA. Permitting Project ing of the Plaquemines Parish Ridge Restoration Program. During the conceptual design and lay i identifying historic ridge footprints to minimize impacts and developed cost-effective alignments of rith other projects. Programmatic permitting involved developing the programmatic permitting app eers with the least damaging design and layout. As part of the program management team, develope is, standardized common environmental concerns and constraints, and permitting guidance docume	Manager – out phase, considering proach and d guidance ents for the
06/17	- 03/18	CALCASIEU SHIP CHANNEL SALINITY CO program management activities to transition & Design phase. Prepared the project man contractors to navigate the project through	NTROL PROJECT (CS-65): Cameron and Calcasieu Parish, LA. Project Manager – Mike managed the er on the \$441 million dollar (estimated construction cost), 14-feature project from the planning to the E agement plan that will guide efforts to schedule and budget across multiple teams of designers, scie in the NEPA, Section 408, and Section 10/404 permitting process.	xecution of ingineering entists, and
10/12	- 06/14	OFFICE OF COASTAL MANAGEMENT OF worked at the Office of Coastal Management application process.	THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES: Baton Rouge, LA. Permit Analyst– Mike nt of the Louisiana Department of Natural Resources evaluating Coastal Use Permits as part of their ju	previously oint permit

FIRM EMPL	OYED BY	G.E.C., Inc.				
NAME	Varapras	ad Venkata, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	18		
TITLE	Senior Pr	ofessional Civil Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	10		
DEGREE(S)	/ YEARS / SPEC	CIALIZATION	B.S. / 1992 / Civil Engineering; M.S. / 1995 / Structural Engineering			
ACTIVE REG	SISTRATION N	UMBER / STATE / EXPIRATION DATE	40594 / Louisiana / 09-30-2026			
YEAR REGIS	TERED 20	16 DISCIPLINE	Structural Engineer			
CONTRACT	ROLE(S) / BRIE	EF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Bridge Design			
EXPERIENC (MM/YY–M	E DATES M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT DATES SHOULD COVER THE YEARS OF EXPERIE	TO THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE NCE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE		
Mr. Venkata has 27 years of structural engineering experience involving highway bridges, low & high mast light pole supports, highway sign supports, hur protection systems, water treatment and distribution facilities, and industrial structures. He has provided design services for state agencies inclusive of funding, tolling commissions, as well as non-state entities and private industry. His bridge design experience includes the widening of existing structure new structures for highly congested interstates and major highways, which includes, but not limited to, the design of pile bents, column bents, PSC g concrete deck, pre-stressed Type III girder spans, and steel girders. Mr. Venkata has experience performing bridge design services in accordance with the AASHTO LRFD Bridge Design Specifications, the Bridge Design and Evaluation Manual (BDEM), and all Bridge Design Technical Memoranda.						
2005 SECTION	5-2010 17 PROJECT	700-28-0004 / US 71/165 FORT BUHLOW BRIDGE AND APPROACHES OVER THE RED RIVER: Alexandria, LA. Structural Engineer - Mr. Venkata performed final structural design of pile supporting column bents for approaches on both northbound & southbound bridges. He performed checking of design calculations for the 72" deep Bulb-T prestressed girder design for approaches as part of the QC process. He also checked the pier design for the main bridge which was a continuous steel girder unit consisting of spans of 300', 400' and 300' for a total length of 1000'. GEC prepared final bridge and roadway plans after completing feasibility. line and grade study, traffic study & environmental assessment.				
02/20 SECTION	-Present 17 PROJECT	H.013897 / I-10 & I-12 COLLEGE DR. I the Primary Bridge Engineer for the I-10 the Flyover and concrete decks for bot Substructures, Median Barriers, and Mo on the Ward Creek Bridge, to ensure n to support structure mount low mast p drawings and pole design calculations s	LYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. Primary Bridge Engineer - Mr. & I-12 College Dr. Flyover Design-Build Project. He designed and supervised the design of concrete girden the Flyover and Ward Creek Bridge. Additionally, Mr. Venkata designed and supervised plan develops oment Slabs on the project. Currently, he is working on developing plans for the phased replacement of paintenance of 5 lanes of traffic on I-10 westbound. Mr. Venkata also analyzed and designed the media oles. He designed foundations for ground mount high and low mast pole support foundations and revi ubmittals.	Venkata is er spans for nent for all deck joints ian barriers iewed shop		
07/12	-Present 17 PROJECT	H.003074 / I-10 WIDENING, WILLIAN load rating for existing bridges and rar to LADOTD allowed an informed decisi structural design of Pile bents, column Northbound bridge and off Ramp to Vo in the development of plans and specs Design Specifications and LADOTD Brid cantilever) for relocated signs.	S TO VETERANS: New Orleans, LA. <i>Structural Engineer</i> - Mr. Venkata performed superstructure and supps for this highly congested 2.28-mile urban interstate. The extensive load rating and documentation to be made on whether to widen or replace the existing bridges at Veterans crossing. Mr. Venkata bents, LG type PSC Girders, steel plate girders, bearing pads, deck slabs, curtain walls for new Southbout eterans Blvd. in accordance with AASHTO LRFD Bridge design specifications and LADOTD BDEM. He all Mr. Venkata worked on design and as designed rating for both bridges in accordance with AASHTO L ge design standards. In addition, Mr. Venkata provided design of two structure-mounted trusses (over	Ibstructure n provided performed und bridge, lso assisted RFD Bridge erhead and		
10/23	-Present	44-25040 / IIJA OFF-SYSTEM BRIDG Ascension, and Assumption Parishes, I is in accordance with the Federal Aid general plan, Foundation layout, Pile da bents when the LADOTD standard bridg	E PROGRAM, DISTRICT 61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Bat A. <i>Structural Engineer</i> - Projects include the design of a bridge spot replacement of off-system bridges. Dff-System Highway Bridge Program. Mr. Venkata's tasks include preparation of Structural general no ta tables and preparing abstract of bridge quantities. Mr. Venkata is also responsible for the design of de ge plans are not applicable due to site specific conditions like phased construction requirement.	:on Rouge, The design ites, Bridge eck and pile		

FIRM EMPLOYED BY	G.E.C., Inc.
NAME Varapras	sad Venkata, PE Continued Resume
03/17-Present	H.004273.5 / I-49 CONNECTOR: Lafayette Parish, LA. Structural Engineer - This 5-mile project begins south of Lafayette Regional Airport and continues north to I-10/US 167/I-49 interchange. Mr. Venkata checked structural calculations for span optimization and three-span continuous steel tub girders as a viable alternative to other bridge span types. He performed substructure design calculations & cost analysis.
11/18-07/20	I-10 SERVICE ROAD BRIDGE REPLACEMENTS: Slidell, LA. Structural Engineer - This project included the replacement of a 5 span 100 feet long concrete slab span bridge over Reine Canal & 5 span 100 feet long slab span bridge with 30-degree skew over French Branch Canal. Mr. Venkata worked on design and as designed rating for both bridges in accordance with AASHTO LRFD Bridge Design Specifications & LADOTD Bridge design standards.
09/20-Present	BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA. <i>Bridge Design</i> - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Mr. Venkata performed QC checks on bridge rating calculations to determine whether the bridge should be widened or replaced in accordance with Part 1, Chapter 6 of the LADOTD BDEM and AASHTO Manual of Bridge Evaluation. Based on the load rating, it was recommended that the existing bridge be replaced. Mr. Venkata performed the feasibility review of phased construction of the new precast prestressed (LG type) girder replacement bridge , maintaining two lanes of traffic in each direction during all phases of construction. He developed a new widened bridge layout plan with 3-phases of construction. Pedestrian facilities will continue across the bridges and will feature barriers to separate pedestrians/ bicyclists from vehicular traffic. (City-Parish Project No. 19-CP-HC-0034)
04/19-12/21	CHEVELLE DRIVE AND SARASOTA DRIVE BRIDGE REPLACEMENTS: East Baton Rouge Parish, LA. <i>Structural Engineer</i> - This project includes the replacement of the existing Chevelle Drive Bridge over the West Fork of the North Branch of Ward Creek with a 4-span 80-foot long slab span bridge and the existing Sarasota Drive bridge over Engineers Depot Canal with a 5-span 105-foot long (20', 20', 25', 20', 20') slab span bridge. Both bridges will have pedestrian walks and are located in Baton Rouge, Louisiana. Mr. Venkata is performing the final design calculations, plan preparation and as-designed rating for both bridges in accordance with AASHTO LRFD Bridge Design Specifications, the AASHTO Manual for Bridge Evaluation, and the LADOTD Bridge Design Manual. (Bridge Recall No(s). 800541 and 800561; City Parish Project No. 18-BRUS-0016)
2006-2011	HIGHLAND ROAD (LA 42) IMPROVEMENTS (PERKINS TO AIRLINE): Baton Rouge, LA. Structural Design - Mr. Venkata designed new bridge crossings at both Ward's Creek and Old Ward's Creek and tied to completed intersection improvements at Perkins Road and at Airline Highway. The bridges are 240' (6 spans at 40') and 160' (4 spans at 40') in length respectively composed of quad beams or 24" pile bents all designed from AASHTO LRFD.
07/16-08/17	PALMISANO BLVD. IMPROVEMENTS: Chalmette, LA. <i>Structural Engineer</i> - GEC designed improvements to the drainage system encompassing Plaza Dr. and Palmisano Blvd. from E. St. Bernard Hwy. to the outfall on the 20 Arpent Canal, including improvements to the lift station, which required a new concrete foundation and adjacent concrete pavement. GEC also provided design and plan preparation of one 3-span (20', 26', 20'), 66' long concrete slab span bridge with median. Mr. Venkata performed structural design calculation check for the 3 span bridge as a part of the Q.C. process. (07/16-08/17)
07/09-06/12	LAKE PONTCHARTRAIN, LA AND VICINITY, HURRICANE PROTECTION PROJECT LPV 17.2, BRIDGE ABUTMENT AND FLOODWALL TIE-INS AT CAUSEWAY BRIDGE: Metairie, LA. <i>Structural Engineer</i> - Mr. Venkata performed final structural design of widened portion of abutments for both North/ Southbound bridges and pile founded inverted T-type floodwall (194 feet) and tie-ins to the existing levees for Causeway Bridge at South Shore. This reach consists of levees, floodwalls, crib walls, Causeway Boulevard and other miscellaneous access points. The designs shall bring the hurricane protection to the Phase II 100-year level. The professional services required of GEC included detailed engineering and design (E&D), preparation of a Design Report (DR), preparation of plans and specifications (P&S), and E&D support during advertisement.
04/13-12/17	H.011207 & H.011239 / LA 1 – LEEVILLE TO GOLDEN MEADOW: PHASE 2A & PHASE 2E (WIDENING AND NEW BRIDGE): Lafourche Parish, LA. Structural Engineer - Mr. Venkata served on a team responsible for rating existing bridge, design of the widening of an existing bridge and the design and construction of a new bridge . The widened portion of the bridge consists of pre-stressed concrete Type III girder spans & two new spans consists of new LG girders. Varaprasad performed design of pile bents, column bents, AASHTO and LG type PSC girders, concrete deck, and pile supported elevated concrete foundation maintenance platform for relocated and new 60' camera pole in accordance with AASHTO LRFD Bridge design specifications. Also designed structural sign supports for highway signs and luminaries according to AASHTO and LADOTD BDEM. Performed structural design for ladder system connecting the platform to the bridge deck in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans & specs.

FIRM EMPL	OYED BY	G.E.C., lı	າດ.		
NAME	Rachel Br	eaux, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6
TITLE	Profession	nal Civil E	ngineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S),	/ YEARS / SPEC	IALIZATION		B.S. / 2016 / Civil Engineering	
ACTIVE REG	SISTRATION NU	JMBER / STA	TE / EXPIRATION DATE	46988 / Louisiana / 03-31-2027	
YEAR REGIS	TERED 202	22	DISCIPLINE	Civil Engineer	
CONTRACT	ROLE(S) / BRIE	F DESCRIPT	ION OF RESPONSIBILITIES	Role on this Project: Bridge Design	
EXPERIENC (MM/YY–M	E DATES M/YY)	EXPERIEN DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
Mrs. Breaux graduated from the University She joined GEC's Engineering group as an le expertise includes bridge design, low and hi to the design of pile, column, transition, and MathCAD. Ms. Breaux has experience perfor Design and Evaluation Manual (BDEM), and		aux graduated from the University ed GEC's Engineering group as an l nicludes bridge design, low and hi sign of pile, column, transition, and D. Ms. Breaux has experience perfor nd Evaluation Manual (BDEM), and	of Louisiana at Lafayette with a Bachelor of Science in Civil Engineering and a minor in Mathemati Engineer Intern and received her Professional Engineer license for the state of Louisiana in 2022. Mi gh mast light pole supports, and highway sign supports. Her bridge design experience includes but is I end bent caps, LG girders, and concrete decks. She is proficient in Microsoft Office, Microstation, STAA rming bridge design services in accordance with the latest AASHTO LRFD Bridge Design Specifications, all Bridge Design Technical Memoranda.	cs in 2016. 's. Breaux's not limited \D.Pro, and the Bridge	
08/23	-Present	44-2504 and Assu AASHTO tasks inc	D/IIJA OFF-SYSTEM BRIDGE PRO Imption Parishes, LA. Design Engin LRFD Bridge Design Specification lude bent design, analyzing pile log	GRAM, DISTRICT 61 LESS EBR: East & West Feliciana, Iberville, Pointe Coupee, West Baton Rouge , <i>neer</i> - Projects include structural design for the replacement of off-system bridges. Design is in accord s, LADOTD Bridge Design and Evaluation Manual, and LADOTD Standard Plans/Special Details. Mr ads, calculating elevations, and preparing construction cost estimates.	Ascension, dance with s. Breaux's
12/19- SECTION	-Present 17 PROJECT	H.00307 Boulevar along the and the l on the n 40.1 for t Mrs. Bre ratings o	4 / I-10 WILLIAMS BLVD TO VE d and Veterans Boulevard intercha e I-10 eastbound and westbound r North side of I-10. As part of this pr orth side of the I-10 westbound bu the Mainline I-10 Veterans Blvd. Bri aux was responsible for designing n the eastbound and ramp bents, d	TERANS BLVD: Jefferson Parish, LA. <i>Engineer</i> - This project involved the widening of I-10 betweet anges in Jefferson Parish. This project consists of construction one 12' additional lane with a 10' shou oadways with median barrier. In addition, concrete sound walls shall be constructed along the I-10 w oject, the bridges over Canal No. 3 and Veterans Boulevard will also be widened. Sound barriers will be ridges. This project also included bridge load rating in accordance with Bridge Design Technical Meri dges and the Eastbound Veterans Exit Ramp to determine the suitability of the bridges for widening a bent caps, as well as calculating all elevations, quantities, and cost for this project. She also perfor lesigned the superelevation transition on the ramp, and designed drilled shafts for low and high mast	n Williams Ilder inside westbound be included morandum is required. prmed load light poles.
08	3/19	I-10 SER concrete the slab	VICE ROAD BRIDGE REPLACEME slab span bridge over Reine Canal spans and bent caps, and calculate	ENT: St. Tammany Parish, LA. <i>Engineer Intern</i> - This project included the replacement of a 5-span 10 and 5-span 100 feet long slab span bridge with 30-degree skew over French Branch Canal. Mrs. Breau ed quantities for this project.	0 feet long Ix designed
11/21- SECTION	-Present 17 PROJECT	H.00410 W. Wash and quar	0 / I-10, LA 415 TO ESSEN LANE C ington St. to Acadian Thruway. Mrs ntities for this segment of the proje	DN I-10 AND I-12: East Baton Rouge Parish, LA. <i>Engineer</i> - The purpose of this project is to widen I-1 B. Breaux designed the girders, bearing pads, and bent caps for Ramp 3 Westbound, and calculated all ect. She also designed a sign truss spanning 90 feet over I-10 near Napoleon Street.	0 between elevations
10/20- SECTION	-Present 17 PROJECT	H.01389 new bric shafts, a	7 / I-10 & I-12 COLLEGE DRIVE F Ige ramp over I-10 towards College nchor bolts, and bearing pads. She	LYOVER RAMP DESIGN BUILD: East Baton Rouge Parish, LA. Engineer - This Design-Build project of Dr., and an existing bridge being widen over Ward Creek. Mrs. Breaux designed all bent caps, light potentials also computed all quantities and elevations for this project.	consist of a ples, drilled
11/21-	-Present	BLUEBO include a well as c	NNET BLVD. (PERKINS RD TO P an additional lane in each direction alculated quantities, cost, and elev	ICARDY AVE): East Baton Rouge Parish, LA. <i>Engineer</i> - GEC is designing the widening of Bluebonn between Perkins Road and Picardy Avenue. Mrs. Breaux designed the concrete deck, girders, and be rations for this project.	et Blvd. to ent caps, as

FIRM EMP	LOYED BY	G.E.C., I	າດ.						
NAME	Hector Zu	ıniga, El		YEARS	OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6			
TITLE	Engineer	Intern		YEARS	OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2			
DEGREE(S)	/ YEARS / SPEC	IALIZATION		B.S. / 2014 / Civil Engineeri	ng				
ACTIVE RE	GISTRATION NU	JMBER / STA	TE / EXPIRATION DATE	33875 / Louisiana / 03-31-2	2027				
YEAR REGI	STERED 20	18	DISCIPLINE	Engineer Intern					
CONTRACT	r role(s) / brie	F DESCRIPT	ION OF RESPONSIBILITIES	Role on this Project: Engine	er Intern				
EXPERIENC (MM/YY–N	CE DATES MM/YY)	EXPERIEN DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "E SPECIFIED IN THE APPLICABLE M	DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXP PR(S).	ERIENCE			
Mr. Zuniga joined GEC's Engineering group of engineering. He has six years of load rating bridge rating, quantities development, revie			ga joined GEC's Engineering group c ing. He has six years of load rating o iting, quantities development, revie	s an Engineer Intern after wo s-design, and existing bridge w of bridge design plans and	orking for LADOTD as a Bridge Load Rating Engineer. His experience focus as in accordance with AASHTO LRFD, MBE, and LADOTD BDEM. His exper I shop drawings, and structural design.	es on bridge tise includes			
09/20 SECTION)-Present 17 PROJECT	H.00410 ongoing reinforci designed Specifica	H.004100 / I-10 LA 415 TO ESSEN LANE ON I-10 AND I-12 (CMAR): West and East Baton Rouge Parish, LA. Engineer Intern - This project is currently ongoing on I-10. GEC is responsible for the design of the retaining walls along I-10. Mr. Zuniga has reviewed designed calculations, calculated the required reinforcing steel, and performed quantities for all retaining walls. Retaining walls are designed in accordance to AASHTO LRFD. In addition, he performed designed calculations for light poles. He determined the required reinforcing steel for the light pole's drilled shaft. The design is in accordance with LRFD Specifications for Highway Signs, Luminaires, and Traffic Signals. Mr. Zuniga completed the analysis and design using the Finite Element Method.						
07/21 SECTION	L-Present 17 PROJECT	BLUEBC addition spans or	BLUEBONNET BLVD. (PERKINS TO PICARDY): Baton Rouge, LA. Engineer Intern - GEC is designing the widening of Bluebonnet Blvd. to include an additional lane in each direction. Mr. Zuniga performed quantities for spans one thru three for phases II and III. In addition, he reviewed quantities for spans one thru three for Phase I.						
04/21	L-Present	H.00427 intercha project k Mr. Zuni	1.004273.5 / I-49 CONNECTOR: Lafayette, LA. Engineer Intern - This project includes bridge design and construction of a freeway with accompanying nterchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles. Mr. Zuniga designed the end bent on the northbound ramp bridge to determined the piles reactions.						
06/21 SECTION	L-Present 17 PROJECT	 H.013897 / I-10 & I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA. Engineer Intern - This Design-Build project consist of a bridge ramp over I-10 towards College Dr., and an existing bridge being widen over Ward Creek. GEC is responsible for engineering and design que control services as necessary to complete the design and construction of the I-10 & I-12 College Dr. Flyover Ramp Design-Build project which con generally of high and bridge design and engineering services. Mr. Zuniga performed the as-designed load rating for the superstructure and substructure the bridge ramp. The most critical spans and bent caps were considered for the analysis. The analysis was performed using AASHTO Bridge Rating and and in accordance to AASHTO LRFD, MBE and LADOTD BDEM manuals. In addition, he performed an in-depth reviewed of the bridge ramp shop draw and bridge design plans. For Ward Creek Bridge, Mr. Zuniga performed the as-designed load rating analysis for the superstructure and substructure for widening portion of the bridge. Additionally, he reviewed the designed calculations for two types of retaining walls and developed the quantities. 							
11/2	1-12/20	CHEVEL existing Drive Bri Rouge, L to deter	LE AND SARASOTA DRIVE BRIDG Chevelle Drive Bridge over the Wes dge over Engineers Depot Canal w ouisiana. Mr. Zuniga performed the mine the design load rating factors	E REPLACEMENTS: East Bar t Fork of the North Branch o ith a 5-span 105-foot long s as-designed load rating and	ton Rouge Parish, LA. Engineer Intern - This project includes the replace f Ward Creek with a 4-span 80-foot long slab span bridge and the exist lab span bridge. Both bridges will have pedestrian walks and are locat alysis for the substructure of these bridges. The analysis was performed	ment of the ing Sarasota :ed in Baton d using LEAP			

FIRM EMPL	OYED BY	Forte	ano	l Tablada, Inc.			
NAME	Bradle	ey S. Holle	ma	n, P.E., P.L.S.		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	4
TITLE	Senior	Vice Pres	de	nt – Survey/Advanced Measur	ements & Modeling	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	15
DEGREE(S)	/ YEARS / S	SPECIALIZATI	ΟN		B.S. / 2009 / Civil Engine	eering, Minor: Land Surveying	
ACTIVE REG	GISTRATIO	N NUMBER /	STAT	E / EXPIRATION DATE	5082 / Louisiana / 09-30 47165 / Louisiana / 03-3	0-2026 31-2025	
YEAR REGIS	STERED	2012		DISCIPLINE	Land Surveying Civil Engineer		
CONTRACT	ROLE(S) /	BRIEF DESCR	PTI	ON OF RESPONSIBILITIES	Role on this Project: Su	rvey Principal-in-Charge	
EXPERIENC (MM/YY–M	e dates M/YY)	EXPER DATES	ENC SHO	E AND QUALIFICATIONS RELEVANT TO T ULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.I SPECIFIED IN THE APPLICABL	E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE E MPR(S).	RIENCE
Mr. Holleman will serve as Principal-in-Cha are estimated, started, and completed to n standard. Mr. Holleman has 12 years of exp and Right of Way Mapping with 8 years bein 8 separate Topographic and Right of Way M		arge during this contract meet scheduled deadline perience of managing fiel ing the Supervising Profes Mapping IDIQ Contracts v	t, and in that role he will coordinate with the Project Manager to assure t s, while also satisfying LADOTD deliverable standards and Forte and Tablac d crews and office work on on-system LADOTD Topographic Surveys, Boundo ssional and 3 years as Principal. He has successfully managed over 40 task or with LADOTD.	ask orders la's quality ary Surveys ders under			
08/23 -	- Ongoin	g INVE	RA TN bal-	CT 4400025029- H.015547, H.015 IENT AND JOBS ACT (IIJA) OFF- in-Charge – provided topographic	548, H.015549, H.015341 SYSTEM BRIDGE PROGE c surveying and right-of-v	I, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- INFRAST RAM- 10 STATE PROJECT NUMBERS (13 BRIDGE SITES): East Baton Rouge vay mapping services for 13 bridge sites on 2 lane roadways.	RUCTURE Parish, LA.
01/21 -	- Ongoin	g servic 4 Surv	273 es f ey	B.5 – I-49 CONNECTOR: Lafayett or the I-49 Connector. The projec crews on this project, in order to	e Parish, LA. Principal-in t is in a dense urban area meet phased deadlines.	a-Charge – provided topographic, terrestrial LiDAR scanning, and property a and is approximately 5 miles long. Forte and Tablada, Inc. was able to mol	[,] surveying bilize up to
06/21 -	- Ongoin	g PROJ for 20	RA CT bri	CT 4400019336- H.014219, H.01 NUMBERS (20 BRIDGE SITES): dge sites on 2 lane rural roadways	4222, H.014228, H.0142 Districts 04 and 05, LA. Pr s.	31 AND H.014236 – RURAL BRIDGE REPLACEMENT INITIATIVE PHASE rincipal-in-Charge – provided topographic surveying and right-of-way mappi	I I; 5 STATE ng services
08/19 -	H.011670- I-10/LOYOLA INTERCHANGE I Way Survey, Drainage Survey, and Right-of ramp, as well as Loyola Avenue and portion required weekly data updates, to allow the 3 Survey firms were contracted to split up QA/QC of all Survey work. Mr. Holleman or new work Forte and Tablada is tasked with			- I-10/LOYOLA INTERCHANGE I ey, Drainage Survey, and Right-of- well as Loyola Avenue and portion weekly data updates, to allow the firms were contracted to split up all Survey work. Mr. Holleman or c Forte and Tablada is tasked with	MPROVEMENTS: Kenne Way Monument Mappir as of Veterans Blvd for ap e Design team to begin w the workload, with Forte iginally managed SJB Gro	er, LA. Surveyor-in-Charge/Principal-in-Charge – provided topographic Survey ng. The project stretches along I-10, from the levee in Kenner to the Willian proximately 3.2 miles of roadway. The Survey was part of a Design-Build Pro- vorking and stay on schedule. Due to the compressed timeline of the Survey e and Tablada, Inc. serving as Prime Surveyor, being responsible for manag- pup's portion of the Survey and is now serving as Principal-in-Charge for any	 /, Right- of- ns Blvd. off ject, which /, a total of ement and ongoing or
01/23	- 01/24	CONTRACT 4400021974- TASK ORDER 2- H.014218 US190-LIVINGSTON PARISH LINE: East Baton Rouge Parish, LA. Principal-in-Charge – pro topographic survey, Mobile LiDAR, and drainage mapping. This project is in a dense urban area and includes approximately 4 miles of a 4-lane hig The purpose of the project is to complete a road overlay and drainage improvements.					– provided e highway.
01/21	- 04/23	23 CONTRACTS 4400010587- TASK ORDEF Rouge Parish, LA. Principal-in-Charge – pr miles long, in between the intersections of a connecting route from Gardere to the ir			5 1 AND 16; 440002197 wided topographic surver La 42 (Burbank Dr.) and sersection of LA 42 and St	4- TASK ORDER 5- H.011684- LA 327 SPUR: STARING LANE EXTENSION: y, Terrestrial LiDAR survey, and drainage map for this project, being approxi Staring Ln. and La 327 (Gardere Ln.) and La 30. The purpose of the project i taring Ln.	East Baton mately 1.5 is to create

FIRM EMPL	OYED BY	Forte an	d Tablada, Inc.				
NAME	Ross A. W	ilson, P.L	.S.	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	13.5		
TITLE	Senior Pro	ofessional	Land Surveyor	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2		
DEGREE(S),	/ YEARS / SPEC	IALIZATION		B.S. / 2010 / Geomatics			
ACTIVE REG	SISTRATION NU	MBER / STA	TE / EXPIRATION DATE	5148 / Louisiana / 03-31-2026; Also Registered PLS in TX, MS, AR, FL, KY, TN			
YEAR REGIS	TERED 201	.5	DISCIPLINE	Land Surveying			
CONTRACT	ROLE(S) / BRIE	F DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project: Survey Project Manager			
EXPERIENC (MM/YY–M	e dates M/YY)	EXPERIENCE DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE		
Mr. Wilson will serve as Surv He will also lead the effort o all QA/QC efforts from begin to rews and office work on on- successfully managed 29 tas being a professional land surv for DOTD as shown below		on will serve as Survey Project Man lso lead the effort on estimating to C efforts from beginning to end of d office work on on-system LADOT Illy managed 29 task orders under professional land surveyor, register D as shown below.	nager during this contract, and in that role he will supervise all field and office work performed on t ask orders and producing project deliverables ahead of any project deadlines. Mr. Wilson will be resp each task order, including the final project deliverables. Mr. Wilson has 12 years of experience of mar D Topographic Surveys, with 9 years being the Professional Surveyor in Charge on these projects. Mr. 4 separate Topographic IDIQ Contracts with LADOTD. Mr. Wilson fulfills the minimum personal require ed in the state of Louisiana, having a minimum of five (5) years of experience in conducting topograp	ask orders. nonsible for naging field Wilson has irements of whic surveys			
08/23 -	- Ongoing	CONTRA INVESTI Surveyor	CT 4400025029- H.015547, H.015 MENT AND JOBS ACT (IIJA) OFF-9 -in-Charge – provided topographic	548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- INFRAST SYSTEM BRIDGE PROGRAM- 10 STATE PROJECT NUMBERS (13 BRIDGE SITES): East Baton Rouge c surveying and right-of-way mapping services for 13 bridge sites on 2 lane roadways.	Parish , LA.		
12/21 -	- Ongoing	IDIQ CO 07: State of manag Highway Survey, a	NTRACT NO. 4400021974 FOR F wide, LA. Surveyor-in-Charge – pr ging LADOTD Survey IDIQ Task Ord Projects. Survey tasks included es nd producing Existing Drainage M	PROFESSIONAL SURVEYING SERVICES – STATEWIDE WITH MAJORITY OF WORK IN DISTRICT ovided topographic surveying for LA DOTD. This contract showcases Mr. Wilson's familiarity with t ers from beginning to end. To date, this IDIQ contract has included a total of 9 separate Task Orders tablishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mo aps.	r S 03 AND he process for 7 State obile LiDAR		
06/21 -	- Ongoing	CONTRA PROJECT for 20 br	CT 4400019336- H.014219, H.014 F NUMBERS (20 BRIDGE SITES): I idge sites on 2 lane rural roadways	4222, H.014228, H.014231 AND H.014236 – RURAL BRIDGE REPLACEMENT INITIATIVE PHASE Districts 04 and 05, LA. Surveyor-in-Charge – provided topographic surveying and right-of-way mappi s.	II; 5 STATE ng services		
01/12	- 12/20	COOK R section o to LA Hw	OAD IMPROVEMENTS: Livingsto f two lane roadway and an unimpr y 1026 (Juban Road), along with s	on Parish, LA. Surveyor for Right-of- Way surveys for this project that designed improvements to roved area with the construction of a four (4) lane boulevard section and sidewalks from LA Hwy 16 (Feveral bridges.	an existing Pete's Hwy)		
 H.011670- I-10/LOYOLA INTERCHANGE IMPROV Drainage Survey, and Right-of-Way Monument Mapper as Loyola Avenue and portions of Veterans Blvd for weekly data updates, to allow the Design team to be firms were contracted to split up the workload, with 				MPROVEMENTS: Kenner, LA. Surveyor-in-Charge – provided Topographic Survey, Right- of-Way Survey, ent Mapping. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well Blvd for approximately 3.2 miles of roadway. The Survey was part of a Design-Build Project, which required am to begin working and stay on schedule. Due to the compressed timeline of the Survey, a total of 3 Survey bad, with Forte and Tablada, Inc. serving as Prime Surveyor.			
08/15 -	08/15 – Ongoing H.004273.5 – I-49 CONNECTOR: Lafayette property surveying services for the I-49 Conn to mobilize up to 4 Survey crews on this proj- personnel requirement of having over five (5			te Parish, LA. Survey Manager/Surveyor-in-Charge – provided topographic, terrestrial LiDAR sca nnector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, In oject, in order to meet phased deadlines. This project demonstrates Mr. Wilson's ability to fulfill the (5) years of experience in conducting topographic surveys.	nning, and c. was able e minimum		

FIRM EMPL	OYED BY	Forte and Tablada, Inc.		
NAME	Rachel W	aldroup, P.L.S.	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	8.5
TITLE	Professio	nal Land Surveyor	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S)	/ YEARS / SPEC	IALIZATION	B.S. / 2020 / Environmental Science with a GIS Concentration A.A.S. / 2015 / Civil, Surveying, and Mapping Technology	
ACTIVE REG	GISTRATION NU	JMBER / STATE / EXPIRATION DATE	5277 / Louisiana / 09-30-2026	
YEAR REGIS	STERED 202	22 DISCIPLINE	Land Surveying	
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Hydrographic and LiDAR Surveyor	
EXPERIENC (MM/YY–M	e dates M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
8.5 years c	of experience	Ms. Waldroup will serve as Hydrographic a Hydrographic and LiDAR work performed a set of work. Ms. Waldroup has over 6 year on these projects. She has worked on over	nd LiDAR Surveyor during this contract, and in that role she will review field and office methodology on task orders. She will also assist the effort of estimating task orders and producing project deliveral s of experience working on on-system LADOTD Topographic Surveys, with 2 years being a Profession 30 on-system LADOTD Surveys, including both Topographic and Right-of-Way work.	used for all ples for this al Surveyor
08/23 -	- Ongoing	CONTRACT 4400025029 - H.015547, H.015 INVESTMENT AND JOBS ACT (IIJA) OFF- Surveyor – providing topographic surveyin	5548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- INFRAST SYSTEM BRIDGE PROGRAM- 10 STATE PROJECT NUMBERS (13 BRIDGE SITES): East Baton Rouge g and right-of-way mapping services for 13 bridge sites on 2 lane roadways.	Parish, LA.
09/21 -	- Ongoing	IDIQ CONTRACT NO. 4400021532 FOR P Statewide, LA. Survey Intern and Surveyor contract showcases Ms. Waldroup's familia	ROFESSIONAL SURVEYING SERVICES – STATEWIDE WITH MAJORITY OF WORK IN DISTRICTS OF – property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LA arity with the process of managing an LADOTD Survey IDIQ Task Order from beginning to end.	I3 AND 07: DOTD. This
06/21 -	- Ongoing	CONTRACT 4400019336 - H.014219, H.01 PROJECT NUMBERS (20 BRIDGE SITES): services for 20 bridge sites on 2 lane rural	4222, H.014228, H.014231 AND H.014236 – RURAL BRIDGE REPLACEMENT INITIATIVE PHASE Districts 04 and 05, LA. Survey Intern and Surveyor – provided topographic surveying and right-of-wa roadways.	II; 5 STATE ay mapping
08/19 -	- Ongoing	H.011670- I-10/LOYOLA INTERCHANGE Right- of-Way Survey, Drainage Survey, and Blvd. off ramp, as well as Loyola Avenue a Project, which required weekly data updat	IMPROVEMENTS: Kenner, LA. Survey CAD Technician, Survey Intern, and PLS – provided Topograp d Right-of-Way Monument Mapping. The project stretches along I-10, from the levee in Kenner to the and portions of Veterans Blvd for approximately 3.2 miles of roadway. The Survey was part of a D es, to allow the Design team to begin working and stay on schedule.	hic Survey, 1e Williams esign-Build
08/15 -	- Ongoing	H.004273.5 – I-49 CONNECTOR: Lafayette and property surveying services for the I-4 able to mobilize up to 4 Survey crews on the	e Parish, LA. Survey CAD Technician, Survey Intern, and PLS – provided topographic, terrestrial LiDA 9 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablac his project, in order to meet phased deadlines.	२ scanning, Ia, Inc. was
05/21	- 12/22 CONTRACTS 4400010587- TASK ORDER BRIDGE (HBI): Calcasieu Parish, LA. Surv Charles, and drainage mapping. This proje		18; 4400015237- TASK ORDER 1; 4400021974- TASK ORDERS 1, 3, AND 4- H.003931- CALCAS ey Intern and PLS– topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survet ct is in a high-traffic industrial area along I-210 and is approximately 7 miles long.	IEU RIVER vey of Lake
10/22	- 12/22	LAFAYETTE STREETSCAPE SURVEY- CON approximately a mile along a 3-lane roadw	NGRESS STREET: Lafayette Parish, LA. Surveyor - topographic survey, Mobile LiDAR, and property ray in an urban area along congress street.	survey for
08/20	- 03/22	CONTRACT 4400017598- H.013979, H.01 PHASE I; 7 STATE PROJECT NUMBERS (2 way mapping services for 22 bridge sites o	13995, H.013992, H.013994, H.013985, H.013954, H.013990 - RURAL BRIDGE REPLACEMENT I 2 BRIDGE SITES): Districts 04, 05, 08 and 58, LA. Survey Intern – provided topographic surveying an n 2 lane rural roadways.	NITIATIVE nd right-of-

FIRM EMPLOYED BY	Forte and Tablada, Inc.					
NAME Jeremy	Cormier, P.L.S.	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	7.5			
TITLE Profess	ional Land Surveyor	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S) <1				
DEGREE(S) / YEARS / S	PECIALIZATION	B.S. / 2008 / Business Management				
ACTIVE REGISTRATION	NUMBER / STATE / EXPIRATION DATE	5342 / Louisiana / 09-30-2026				
YEAR REGISTERED	2024 DISCIPLINE	Land Surveying				
CONTRACT ROLE(S) / E	RIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Survey Task Manager				
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENC	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE E SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE			
8 years of experienc	Mr. Cormier will serve as Survey Task Mar work performed on task orders. He will als deadlines. Mr. Cormier will be responsibil deliverables. His responsibilities also inclu years of experience of managing field cre assisted in project management over 10 to	nager during this contract, and in that role he will assist the Project Manager in supervising all field so assist the Project Manager in estimating task orders and producing project deliverables ahead of e for performing the initial layer of QA/QC through all phases of each task order, including the fi de training both office and field staff to ensure LADOTD standards are met on a task order. Mr. Con ews and performing office work on on-system LADOTD Topographic Surveys. He has performed CAL fask orders under 3 separate Topographic IDIQ Contracts with LADOTD.	l and office any project nal project rmier has 6 D work and			
08/23 – Ongoing	CONTRACT 4400025029-H.015547, H.01 INVESTMENT AND JOBS ACT (IIJA) OFF Survey Intern and Surveyor – providing to	5548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- INFRAST •SYSTEM BRIDGE PROGRAM- 10 STATE PROJECT NUMBERS (13 BRIDGE SITES): East Baton Rouge pographic surveying and right-of-way mapping services for 13 bridge sites on 2 lane roadways.	Parish, LA.			
06/21 – Ongoing	CONTRACT 4400019336- H.014219, H.02 PROJECT NUMBERS (20 BRIDGE SITES) and right-of-way mapping services for 20	14222, H.014228, H.014231 AND H.014236 – RURAL BRIDGE REPLACEMENT INITIATIVE PHASE : Districts 04 and 05, LA. Survey CAD Technician, Survey Intern and Surveyor – providing topographic bridge sites on 2 lane rural roadways.	II; 5 STATE c surveying			
02/19 – Ongoing	H.004273.5 – I-49 CONNECTOR: Lafayer scanning, and property surveying services Inc. was able to mobilize up to 4 Survey cr	tte Parish, LA. Survey CAD Technician, Survey Intern and Surveyor - providing topographic, terres for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte an rews on this project, in order to meet deadlines.	itrial LiDAR nd Tablada,			
03/24 – 04/24	H.015935- LA HWY 47 OVER BAYOU B topographic, hydrographic, and LiDAR sur 4 lane highway in an urban area.	IENVENUE - EMERGENCY BRIDGE REPLACEMENT: St. Bernard/Orleans Parish, LA. Survey Inter veying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. The survey	n provided included a			
01/23 - 01/24	CONTRACT 4400021974- TASK ORDER 2 Intern - provided topographic survey, mol 4 lane highway. The purpose of the project	CONTRACT 4400021974- TASK ORDER 2- H.014218 US190-LIVINGSTON PARISH LINE: East Baton Rouge Parish, LA. Survey CAD Technician and Sur Intern - provided topographic survey, mobile LiDAR, and drainage mapping. This project is in a dense urban area and includes approximately 4 miles 4 lane highway. The purpose of the project is to complete a road overlay and drainage improvements.				
12/18 – 03/19 01/21 – 02/21,1 2/22 – 04/23	H.011684 LA 327 SPUR: STARING LANE E Survey Party Chief and CAD Technician - t between the intersections of La 42 and St intersection of LA 42 and Staring Ln.	EXTENSION (4400010587- TASK ORDERS 1 AND 16; 4400021974- TASK ORDER 5): East Baton Rouge opographic survey, terrestrial LiDAR, and drainage map for this project, being approximately 1.5 mi aring Ln., and La 327 and La 30. The purpose of the project is to create a connecting route from Gar	Parish, LA. les long, in dere to the			
05/21 – 12/22	CONTRACTS 4400010587- TASK ORDER BRIDGE (HBI): Calcasieu Parish, LA. Surve of Lake Charles, and drainage mapping. Th	18; 4400015237- TASK ORDER 1; 4400021974- TASK ORDERS 1, 3, AND 4- H.003931- CALCAS ey CAD Technician -provided topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic sproject is in a high-traffic industrial area along I-210 and is approximately 7 miles long.	IEU RIVER phic survey			

FIRM EMPL	OYED BY	Forte and Tablada, Inc.				
NAME	Brent Can	npbell		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	12	
TITLE	Profession	nal Land Surveyor		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0	
DEGREE(S)	/ YEARS / SPEC	IALIZATION	B.S. / 2013 / Constru	ction Management		
ACTIVE REC	GISTRATION NU	IMBER / STATE / EXPIRATION DATE	N/A			
YEAR REGIS	STERED N/A	DISCIPLINE	N/A			
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Advanced Measurements Group Lead		
EXPERIENC (MM/YY-M	E DATES M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE	
12 years c	of experience	Mr. Campbell is an expert with over a dea extraction software. Widespread experience Photogrammetry, Multibeam Bathymetry,	cade of experience usi e managing and overs and Aerial Imagery.	ng terrestrial and mobile/aerial LiDAR systems and accompanying post-proc seeing execution of projects involving advanced data capture techniques inclue	essing and ding LiDAR,	
01/16-	Ongoing	H.004273.5 – I-49 CONNECTOR: Lafayette of roadway features for the I-49 Connector terrestrial LiDAR scanning services for muc	e Parish, LA – LA DOTD r. The project is in a c h of the congested cor	– LiDAR technician and Group Leader responsible for providing terrestrial Lil dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. rridor as a means to obtaining topographic data without endangering surveyo	OAR survey completed rs.	
01/23- 01/24		CONTRACT 4400021974- TASK ORDER 2- H.014218 US190-LIVINGSTON PARISH LINE: East Baton Rouge Parish, LA– Group Leader responsible for management and QAQC of performing Mobile LiDAR and extraction for project providing topographic survey. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements. Mobile LiDAR was utilized, throughout the project, as a means to obtaining topographic data without endangering surveyors.				
05/21-12/22		CONTRACTS 4400010587- TASK ORDER 18; 4400015237- TASK ORDER 1; 4400021974- TASK ORDERS 1, 3, AND 4- H.003931- CALCASIEU RIVER BRIDGE (HBI): Calcasieu Parish, LA– Group Leader responsible for Mobile LiDAR acquisition and extraction, as well as Hydrographic Survey acquisition and extraction efforts. project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed Mobile LiDAR scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors. The Survey also included Multibeam Hydrographic survey of Lake Charles, and Terrestrial LiDAR scanning of bridge substructures. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase.				
03/21 – 12/21 MOVEBR (20-EN-HC-0003) FLORIDA BLV with capturing mobile data. Responsible fo 4 miles long. Forte and Tablada completed endangering surveyors.		7D. CORRIDOR ENHA or processing and extra mobile LiDAR service	NCEMENT: East Baton Rouge Parish, LA – Mobile LiDAR Tech responsible fracting the Mobile LiDAR data. This project is in a dense urban area and is appression of the congested corridor as a means of obtaining topographic data.	or assisting proximately ata without		
11/19-12/20		CONTRACT 4400010587- TASK ORDERS 12, 14, AND 15- H.012083- CALCASIEU RIVER BRIDGE INT REPAIRS: Calcasieu Parish, LA- Group Leader responsible for the management and QAQC of data and deliverables for the terrestrial laser scans underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, preformed mobile Lidar for future planning.				
10/19-10/20 INSPECTION OF METAL CULVERTS: State approximately 230 culvert locations statew		ewide, LA – Group Leader responsible for the management and QAQC for inspections and data acquisition for vide. Culvert measurements were acquired with a mixture of 3-D laser scanning, sonar, and LiDAR.				
06/19-09/19		CONTRACT 4400010587- TASK ORDERS 11 AND 13- H.000303.6- DANZIGER BRIDGE REPAIR: Orleans Parish, LA- Project Manager responsible for Topographic and Monitoring survey, and terrestrial LiDAR scanning of Danziger bridge. This survey was necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge.				

FIRM EMPLOYED BY	G.E.C., Inc.						
NAME Brian	Buckel, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	11				
TITLE Senio	r Vice President	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	31				
DEGREE(S) / YEARS /	SPECIALIZATION	B.S. / 1981 / Civil Engineering					
ACTIVE REGISTRATIO	IN NUMBER / STATE / EXPIRATION DATE	21816 / Louisiana / 09-30-2025					
YEAR REGISTERED	1985 DISCIPLINE	Civil Engineer					
CONTRACT ROLE(S)	BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Construction, Constructability Review					
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE E SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE				
	Mr. Buckel joined GEC as Senior Vice Presia 2006 to 2012, managing the Construction S projects. He served as Area Engineer throu seven parishes under District 02 where he h of projects at LADOTD include the most con traveled Greater New Orleans area. He lead projects and CEI on DBB projects for major has the following certifications: ATSSA TCT/	lent of Construction after 31 years of service with LADOTD, where he served as Chief Construction Eng Section as well as policy setting of construction projects including implementation for several Alternat ghout the State of Louisiana for seven years and as District Construction Engineer for seven years, mo ed the state into Superpave, warm mix, and other significant asphalt pavement innovations. Mr. Bucke nplex construction projects in Louisiana with much of his work being performed in the high density pop ds GEC's Construction Division through the most complicated projects in Louisiana, managing OV for the highway and interstate projects, urban and rural, with complex sequence of construction and construct (TCS)	ineer from ive Delivery inaging the il's portfolio pulated and ADOTD DB stability. He				
07/19-Presen	H.011670 / I-10/LOYOLA INTERCHANGE IMPROVEMENTS: Jefferson Parish, Louisiana. Principal-in-Charge - GEC, selected as the Owner Verification firm, provided all necessary engineering & related services for Design-Build Construction Support Services for the administration of the Design-Build contract on behalf of LADOTD, along with managing the implementation of the Project's Construction Quality Assurance Program (CQAP). Mr. Buckel provided assistance, support, and constructability review to the LADOTD Project Manager to verify requirements of the contract documents were met. The project is in final close-out phase.						
05/17-Presen	7-Present H.003014 / I-10, LA 347 TO ATCHAFALAYA FLOODWAY BRIDGE ROUTE: St Martin Parish, LA. Principal-in-Charge - Mr. Buckel served as Project Engine until October 2018 and is currently Principal-in-Charge of this project in District 03 which includes full-depth replacement of the pavement within existing lanes, widening the westbound pavement surface, widening the LA 347 WB overpass, construction of 2 roundabouts on LA 347, and instal concrete median protection. Pavement striping, raised markers, and rumble strips will also be installed. Post construction, eastbound I-10 will be strip with two 12-foot travel lanes, a 12-foot outside shoulder, and a 6-foot inside shoulder. The westbound pavement will be striped for three 12-foot travel lanes, a 12-foot outside shoulder. A 54-inch tall concrete median barrier will also be installed in portions of the procorridor. Openings in the barrier would be located at the LA 347 interchange, the Bayou Portage bridge crossing, in forested areas of the median, an approved median exercising.						
08/17-07/18	07/18 H.004932 / US 90 (FUTURE I-49 SOUTH), LA 318 INTERCHANGE, ROUTE US 90: St Mary Parish, LA. <i>Principal-in-Charge</i> - GEC was the Owner Verificat Firm (OVF) for this Design-Build project in District 03 which included CE&I, Right-of-Way Acquisition and Utility Relocation. As LADOTD's OVF representat Mr. Buckel served as Principal-in-Charge. GEC provided CE&I oversight of the Contractor's QA firm for compliance with base course, embankment, aspl paving, and Portland cement concrete paving.						
03/17-presen	H.003003 / I-10, LA 328 TO I-49 JCT.: Lafa until October 2018 and is currently Princi existing lanes, widening the westbound a overpass and widens the overpasses and striping, raised markers, and rumble strips	ayette and St Martin Parishes, LA. Project Engineer/Principal-in-Charge - Mr. Buckel served as Proje ipal-in-Charge of this project in District 03 that includes full-depth replacement of the pavement nd eastbound pavement surface, and installing concrete median protection. The project replaces structures on Bayou Teche, Vermillion River, Louisiana Ave, Francis Coulee, and LA 176 (Moss St) would also be installed.	ct Engineer within the the LA 328 . Pavement				

FIRM EMPLOYED BY	G.E.C., Inc.		
NAME Rolan	d Maurin Jr., PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	10
TITLE Senior	Professional Civil Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	39
DEGREE(S) / YEARS /	SPECIALIZATION	B.S. / 1977 / Civil Engineering	
ACTIVE REGISTRATIO	N NUMBER / STATE / EXPIRATION DATE	20553 / Louisiana / 09-30-2026	
YEAR REGISTERED	1983 DISCIPLINE	Civil Engineer	
CONTRACT ROLE(S) /	BRIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Construction Support	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
	Prior to joining GEC in 2014, Mr. Maurin was roadway, bridge, and facility maintenance, He served as manager of traffic engineering also district incident commander for all roo as District Maintenance Engineer LADOTD f Lafourche Parish. For 13 years, he served as Helena, and northern Tangipahoa parishes.	Assistant District Administrator LADOTD Operations, managing District 62 district-wide operations whi movable bridge operations, ferry landings, rest area operations, roadside development, and fleet ma g, traffic operations, and bridge inspection and painting of state (on system) and local (off system) bridge ad/weather events, preparations, coordination with authorities, and after event activities. In addition for seven years, overseeing all LADOTD maintenance activities in District 62 in Hammond, Terrebonne s Resident Construction Engineer, performing contract administration over all construction projects in He has the following certifications: ATSSA TCS, ATSSA Flagger	ch included inagement. ges. He was i, he served Parish, and St. John, St.
01/23-12/23	OVERLAY THE WEST CAUSEWAY APPR rehabilitation of an existing roadway for existing roadway, installing new pavement installation of new pavement markers and	COACH ROAD AT CHINCHUBA BAYOU: Mandeville, LA. <i>Construction Engineer</i> - This project in r the Greater New Orleans Expressway Commission. The rehabilitation included milling and ove markers, and redesigning the existing guard rail in order to meet current safety standards. Mr. Rolar guardrails, along with the mill and overlay of the roadway.	volved the rlaying the nd oversaw
01/23-Present	NORTH CAUSEWAY APPROACH ROAD O roadway for the Greater New Orleans Exp pavement markers, and redesigning the ex and bridge repairs and currently oversees	OVERLAY: St. Tammany Parish, LA. <i>Construction Engineer</i> - This project involved the rehabilitation of pressway Commission. The rehabilitation included milling and overlaying the existing roadway , ins isting guard rail in order to meet current safety standards. Mr. Roland oversaw the installation of asp ongoing guardrail, signage, and electrical work.	an existing talling new halt paving
01/15-Present	SALES TAX STREET AND ROAD REHABI This project began in 1990 and GEC has b Improvements since 1991. In this role, GEC certified by LADOTD in both asphalt and c Concrete Paving, Portland Cement Concret	LITATION PROGRAM (DPW PROJECT NO. 15-CEST-0001): East Baton Rouge Parish, LA. <i>Project</i> een the prime consulting engineer, responsible for construction inspection for all City of Baton Ro C provides one project engineer, one senior chief inspector, and two chief inspectors. These inspector concrete construction. In addition, GEC provides between 5 and 6 inspectors certified by LADOTD i te Paving or Embankment and Base Course construction.	Engineer - ouge Street ors must be n Asphaltic
05/15-09/21	H.009479 / WEST LAROSE VERTICAL L representing the LADOTD on the rehabilita existing paint system and repainting, struc	IFT SPAN BRIDGE REHABILITATION: Larose, LA. Project Engineer - Mr. Maurin was the Project ation of the West Larose Bridge. The \$26M project included a new fender system construction , rem tural repairs and bolt replacement, and rehabilitation of the electrical and mechanical systems.	t Engineer oval of the
11/14-03/18	H.005972 / GNOEC, 9-MILE TURNAROU project is the most recent to expand the damaged the access ramps on the 9-Mile ⁻ was to widen Crossover 5 instead of rebui Southbound bridges that is approximately the placement of a communications tower	IND SPANS, CROSSOVER #5 WIDENING: St. Tammany and Jefferson Parishes, LA . <i>Project Over</i> Lake Pontchartrain Causeway. Mr. Maurin had project oversight of this project. Hurricane Katrin Turnaround. An economic study was performed and it was determined that the most prudent cours ilding the ramps to the turnaround. This \$8.3M project constructed a platform between the North 120'x80'. The platform, constructed of AASHTO Type IV PPC Girders, was designed for full vehicle I . All GNOEC and Cell Phone equipment located at the turnaround was moved to the platform.	sight - This a severely e of action bound and oading and
06/16-04/18	H.011217 / GNOEC – DEMOLITION OF T and supervision over AASHTO SiteManage	HE 9 MILE: St. Tammany and Jefferson Parishes, LA. <i>Construction Engineer</i> - Mr. Maurin had project r Approval of DWRs and final change orders, as well as compiling the final punch list for acceptance.	t oversight

FIRM EMPL	LOYED BY	G.E.C., Inc.					
NAME	Zachary	y Boylan, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	5		
TITLE	Professi	ional Civil Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	1		
DEGREE(S)	/ YEARS / SP	ECIALIZATION	B.S. / 2019 / Civil Eng	ineering			
ACTIVE REC	GISTRATION	NUMBER / STATE / EXPIRATION DATE	48575 / Louisiana / 0	9-30-2026			
YEAR REGIS	STERED 2	024 DISCIPLINE	Civil Engineer				
CONTRACT	ROLE(S) / BR	RIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Construction Support			
EXPERIENC (MM/YY-M	CE DATES 1M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE		
Mr. Boylan serves as Project Engineer in field operations and of drainage, sanitary sewer, embankment, and base course pro- understanding of DOTD specifications. Mr. Boylan has experien program. He has the following certifications: ATSSA TCS, ATSSA			d operations and office Id base course project Poylan has experience v S: ATSSA TCS, ATSSA Fla	work on numerous projects. Mr. Boylan has experience with asphalt paving, co s. He also has a vast understanding of Site Manager, developing LPA project vith collection of street condition data utilizing the PASER rating method and Qu gger	itch basins, : plans and iickCapture		
05/2	2-06/24	LASAFE AIRLINE AND MAIN COMPLETE STREETS: Laplace, LA. Assistant Project Engineer - Mr. Boylan was the assistant Project Engineer for this \$4.3M, 2.5-mile-long project which included the construction of sidewalks, pedestrian crossings, milling/overlaying, pavement striping, curb/gutters, bike lanes, driveways, subsurface drainage, sewer and water line relocation, and installation of decorative lighting/associated electrical service equipment/ underground conduit. Mr. Boylan worked with field personnel to adjust due to utility conflicts, wrote and processed change orders, and generated monthly estimates					
08/22	2-05/24	H.014694 / LA 426 (LA 73 – SHERWOOD FOREST): East Baton Rouge Parish, LA. Assistant Project Engineer - Mr. Boylan was the Engineer Intern assisting the Project Engineer with this \$1.8M, 3.1-mile-long project consisting of constructing guardrail, concrete walk, handicapped curb ramps, plastic pavement striping, and related work. Mr. Boylan worked in coordination with a LADOTD District Engineer to make field decisions, generate change orders and partial estimates, and host meetings with the contractor/owner.					
11/2	2-04/24	H.012022 / BREC GREENWOOD MULTI-USE TRAIL PHASE 2: East Baton Rouge Parish, LA. Assistant Project Engineer - Mr. Boylan assisted the Project Engineer with this \$2.3 1.7-mile-long multi-use trail including a Pedestrian Bridge, Precast Piles, clearing and grubbing, grading, base course, concrete work, and landscaping. Mr. Boylan managed several change orders, estimates, Headlight and SiteManager reports and managed the lead inspector a needed.					
12/19	-Present	ent SALES TAX STREET AND ROAD REHABILITATION PROGRAM: East Baton Rouge Parish, LA. Assistant Project Engineer - Mr. Boylan is an Engineer f project which began in 1990. GEC has been the prime consulting engineer, responsible for all aspects of construction inspection for all City of Baton Street Improvements. These projects include a variety of rehabilitations jobs; PPC Paving Patching, Asphalt Patching, Asphaltic Concrete Overlay, Sealing and Full Reconstruction including Soil Cement. Mr. Boylan is currently assisting the Project Engineer with oversight of the inspectors and object quantities for the design of future projects. He has been developing partial estimates, change orders, tracking project with PASER and QuickCapture with other duties.					
01/2	3-12/23	OVERLAY THE WEST CAUSEWAY APPR rehabilitation of an existing roadway for the roadway, installing new pavement markers, of new pavement markers and guardrails, a	OACH ROAD AT CHI e Greater New Orleans and redesigning the ex along with the mill and	NCHUBA BAYOU: Mandeville, LA. Construction Engineer - This project in Expressway Commission. The rehabilitation included milling and overlaying taking guard rail in order to meet current safety standards. Mr. Boylan oversaw loverlay of the roadway.	volved the he existing: installation		

FIRM EMPL	LOYED BY	G.E.C., Inc.						
NAME	Tom Coer	ver Jr., PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	34			
TITLE	Senior Pro	ofessional Electrical Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	6			
DEGREE(S)	/ YEARS / SPEC	IALIZATION	B.S. / 1980 / Electrica	al Engineering; M.B.A. / 1990 / Management Information Systems				
ACTIVE REG	GISTRATION NU	IMBER / STATE / EXPIRATION DATE	30722 / Louisiana / 0	9-30-2025				
YEAR REGIS	STERED 200	DISCIPLINE	Electrical and Compu	iter Engineer				
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Electrical Design & FAA Permitting				
EXPERIENC (MM/YY–M	E DATES IM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE			
		Mr. Coerver has experience in engineering He also has over 20 years of experience with and drafting; database design and analysis, and bridge lighting, fiber optic communica specifications, Quality Control and Quality	and planning for utilitie n computers using seve and internet publishin tion systems, and wire Assurance (QC/QA) revi	es distribution systems, automatic test systems, and navigation and flood contr ral operating systems for GIS design, implementation, and analysis; computer a g. His most recent projects at GEC involved electrical power distribution system less and landline communication systems. Design duties include preparation o iew, calculations, data collection, and report preparation.	ol projects. ided design Is, roadway f plans and			
02/20 SECTION	-Present 17 PROJECT	H.013897 / I-10 & I-12 COLLEGE DR FLYC and lighting layout design, sequence of co engineering and design quality control serv Build Project which consists generally of his	OVER RAMP DESIGN- onstruction, schedule a vices as necessary to co ghway and bridge desi	BUILD: Baton Rouge, LA. <i>Electrical Engineer</i> - Mr. Coerver has performed p analysis, and quality control review for the GEC/Boh Bros. team. GEC is responplete the design and construction for the I-10 & I-12 College Dr Flyover Raign and engineering services.	hotometric onsible for mp Design-			
09/17	7-01/20	44-10428, H.004774.5/H.007300.6 / KAN for the lighting analysis , voltage drop calcu plan set development, photometric calcul analysis, and protective device sizing.	SAS LANE – GARRETT lation, and lighting lay e ations, voltage drop a	RD CONNECTOR: Ouachita Parish, LA. <i>Electrical Design</i> - Mr. Coerver provident of the enhancement lighting and roadway lighting . Design task included conduit fill calculations, conductor sizing, equipment specifications, arc fload conduit fill calculations.	ded QA/QC onstruction ash hazard			
03/21 SECTION	-Present 17 PROJECT	H.004100.5 / I-10: LA 415 TO ESSEN LAN Roadway, Walkway, Underpass, Service Ro incorporate aesthetic lighting at the City P provides QA/QC for the lighting analysis , w	H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. <i>Electrical Engineer</i> - Mr. Coerver completed a Roadway, Walkway, Underpass, Service Road and Roundabout Lighting study and an enhancement lighting study for Segment 1 of this CMAR project to incorporate aesthetic lighting at the City Park Lake (CPL) Bridge and emphasize the Greenway path from the Expressway Park to the CPL bridge. He also provides QA/QC for the lighting analysis , voltage drop calculation, and lighting layout of the enhancement lighting and roadway lighting .					
06/15	-Present	44-02746, H.010916 / PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA. <i>Electrical Designer</i> - Mr. Coerver designed roadway lighting for th under the signing engineer. Project limits include the I-210 Bridge over Prien Lake and the I-210 / Cove Lane Interchange. Project makeup consi following types of roadway lighting standards: 12 ground mount low mast and 50 barrier mount low mast. GEC provided design services und Orders and will provide CE&I under a third. In addition, lighting control and power distribution and system protection is included.						
2013	3-2018	4-002746, H.010440 / I-210 OVER CALC/ consists of the following types of roadwar mast, 10 ground mount high mast, and 4 un design, development of plans and specificat the signing engineer.	ASIEU RIVER WEST O Ighting standards: 4 Inderpass. In addition, li Itions, and CE&I as requ	PF I-10 INTERSTATE LIGHTING: Lake Charles, LA. <i>Electrical Engineer</i> - Projet 4 ground mount low mast, 54 structure mount low mast (bridge), 7 barrier ighting control and power distribution and system protection is included. Servi uired. Mr. Coerver was the designer of the roadway lighting system on this pro	ct makeup mount low ces include oject under			
06/17 SECTION	-Present 17 PROJECT	H.003074 / I-10 WIDENING, WILLIAMS lighting design and provided QA/QC on th that will be affected by the widening of th need revisions to the lighting systems as w	BLVD. TO VETERANS is project. GEC Electric e I-10 in this area. Thi ell as significant coord	5 BLVD.: New Orleans, LA. <i>Electrical Designer</i> - Mr. Coerver was involved in that is responsible for preparing a feasibility study for the lighting within the prise includes a total length of 2 miles of widening and three interchanges, all of ination with the FAA for the lighting design .	n roadway oject limits which will			

FIRM EMPLOYED BY	G.E.C., Inc.					
NAME Michael	Chiasson, PE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	15		
TITLE Senior P	rofessional Electrical Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	33		
DEGREE(S) / YEARS / SPE	CIALIZATION	B.S. / 1973 / Electrica	al Engineering			
ACTIVE REGISTRATION N	IUMBER / STATE / EXPIRATION DATE	17978 / Louisiana / 0	9-30-2026			
YEAR REGISTERED 19	DISCIPLINE	Electrical Engineer				
CONTRACT ROLE(S) / BR	IEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Electrical Design & FAA Permitting			
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE		
	Mr. Chiasson has over 40 years of experiend designs for several wastewater lift stations of (design and development) of process control engineering the manufactured systems to u data collection, and report preparation we control systems using tools in Excel and oth Microsoft Excel.	nce in the design and c and drainage pumping s ol engineering projects, nderstand how to modi re also parts of these p her 1st and 2nd order o	development of process control and related systems. At GEC Mr. Chiasson has tations. At Dow Chemical, he was responsible for the preparation of plans and sp from plans and specifications to final construction inspection. Other duties incl fy the instruments for computer control and data collection. Calculations, field i rojects. Mr. Chiasson is experienced with modeling, digital data filtering and si modeling techniques. He is also well versed in Fortran, Visual Basic, Microsoft	completed ecifications ude reverse nspections, mulation of Word, and		
03/21-Present	H.013897 / I-10 & I-12 COLLEGE DR FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA. <i>Electrical Engineer</i> - Mr. Chiasson has performed photometric and lighting layout design, sequence of construction, schedule analysis, and quality control review for the GEC/Boh Bros. team. GEC is responsible fo engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr Flyover Ramp Design Build Project which consists generally of highway and bridge design and engineering services					
08/18-Present SECTION 17 PROJECT	H.003074 / I-10 WIDENING, WILLIAMS lighting design and provided QA/QC on th that will be affected by the widening of th need revisions to the lighting systems as w	BLVD. TO VETERANS is project. GEC Electric e I-10 in this area. Thi rell as significant coord	BLVD.: New Orleans, LA. <i>Electrical Designer</i> - Mr. Chiasson was involved in the call is responsible for preparing a feasibility study for the lighting within the pre- s includes a total length of 2 miles of widening and three interchanges, all of ination with the FAA for the lighting design .	n roadway oject limits which will		
2012-2018	RETAINER CONTRACT FOR ELECTRICAL first two LADOTD interstate lighting syster including high-mast, low-mast, underpass,	SERVICES: Statewide ns using LED high mas navigation, and aviation	, LA. Electrical Engineer - This retainer contract included two pilot projects to and LED low mast roadway lighting. Various lighting was included on thes on. There was a total of 21 task orders executed under this contract.) install the e contracts		
2013-2018	44-02746, H.010440 / I-210 OVER CALCAS with the design and continues to provide ground mount low mast, 54 structure mo lighting control and power distribution and and CE&I as required.	SIEU RIVER WEST OF QC/QA services as nee unt low mast (bridge), system protection is in	I-10 INTERSTATE LIGHTING: Lake Charles, LA. Electrical Engineer - Mr. Chiass eded. Project makeup consists of the following types of roadway lighting sta , 7 barrier mount low mast, 10 ground mount high mast, and 4 underpass. I cluded. Services include feasibility study, design, development of plans and spe	on assisted indards: 44 n addition, ecifications,		
2012-2014	GNOEC, BASCULE BRIDGE CONTROL SY operator control of the Bascule Bridge syst which is no longer supported with a new m procedural interlocks. Many older compor meet current NEC requirements. Additional and repair procedures.	STEM REPLACEMENT em on the Causeway b nodern PLC bridge cont nents were replaced wi illy, as part of this proje	: Jefferson Parish, LA. <i>Electrical Engineer</i> - Design a replacement control syster ridge near the north shore. The project involved replacing the existing PLC con rol system. The Control system must retrain all mechanical interlocks as well a th more modern equivalents. The roadway lighting system was also replaced ect a user manual was created for the operators. The user manual also includes	em to allow trol system s operating I to make it s diagnostic		

FIRM EMP	PLOYED BY	G.E.C., li	nc.				
NAME	Luis Diaz,	PE			YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER 3		
TITLE	Profession	nal Electr	ical Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	1	
DEGREE(S) / YEARS / SPEC	IALIZATION		B.S. / 2019 / Electrica	al Engineering		
ACTIVE RE	GISTRATION NU	JMBER / STA	TE / EXPIRATION DATE	48985 / Louisiana / 0	9-30-2026		
YEAR REG	ISTERED 202	24	DISCIPLINE	Electrical and Compu	iter Engineer		
CONTRAC	T ROLE(S) / BRIE	F DESCRIPT	ION OF RESPONSIBILITIES	Role on this Project:	Electrical Design & FAA Permitting		
EXPERIEN (MM/YY-N	CE DATES MM/YY)	EXPERIEN DATES SHO	CE AND QUALIFICATIONS RELEVANT TO 1 DULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT SPECIFIED IN THE APPLICA	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE	
		Mr. Diaz fill calcu addition project's	has 4 years of experience in design lations, conductor sizing, equipme to roadway lighting projects, Mr. power requirements.	ning electrical lighting a nt specifications, arc f Diaz has experience in	and power systems. He has performed photometric calculations, voltage drop, o flash analysis, and protective device sizing for LADOTD interstate and urban n the analysis of generator systems performing generator-sizing calculations	and conduit projects. In ; to meet a	
07/2: SECTION	1-Present	H.00410 lighting Expressv CMAR Se Lighting.	0.5 / I-10: LA 415 TO ESSEN LANE O study for Segment 1 of the project vay Park to the bridge and coordina egment 1 portion of the project. N He is also involved in the lighting	on I-10 AND I-12: West at to incorporate aest ated with lighting vend Mr. Diaz is performing analysis, voltage drop	and East Baton Rouge Parishes, LA. Electrical Design - Mr. Diaz designed the enl hetic lighting at the City Park Lake Bridge and emphasize the Greenway pat lors to process the electrical design for the enhancement lighting systems acro electrical design for the Roadway, Walkway, Underpass, Service Road, and R calculation, and lighting layout of the enhancement lighting and roadway lig	hancement h from the oss the I-10 oundabout ghting.	
2021 SECTION	L-Present	44-0526 design o calculation	7, H.003074.5 / I-10 WIDENING, N f this project under the supervision ons, voltage drop and conduit fill c	WILLIAMS BLVD. TO Non of the signing profe calculations, conductor	/ETERANS BLVD.: Jefferson Parish, LA. <i>Electrical Design</i> - Mr. Diaz currently p ssional engineer. Design task included construction plan set development, p sizing, equipment specifications, arc flash hazard analysis, and protective development.	rovides the hotometric vice sizing.	
05/2: SECTION	1-Present	H.01389 complete services	7 / I-10 & I-12 COLLEGE DR FLY ed checks on the photometric and as necessary to complete the desig	OVER RAMP DESIGN lighting layout design f gn and construction fo	N-BUILD: Baton Rouge, Louisiana. Construction Engineering and Inspection for the GEC/Boh Bros. team. GEC is responsible for engineering and design qua or the I-10 & I-12 College Dr. Flyover Ramp Design-Build Project.	- Mr. Diaz ality control	
12/22	2-Present	I-49, US project a conducto reduce t	190 INTERCHANGE LIGHTING. s the leading designer. Design task or sizing, equipment specifications he quantity of the for the contract	TASK ORDER NO. 2: I included construction s, arc flash hazard anal or to request for inforr	LA. Electrical Design/Construction Engineering and Inspection - Mr. Diaz complan set development, photometric calculations, voltage drop and conduit fill caysis, and protective device sizing. Mr. Diaz performs on-site field walk and instantion during construction.	npleted the alculations, spection to	
2021	l-Present	44-1042 the design calculation	B, H.004774.5/H.007300.6 / KAN on of this project under the supervi ons, voltage drop and conduit fill c	SAS LANE – GARRET ision of the signing pro calculations, conductor	T RD CONNECTOR: Ouachita Parish, LA. <i>Electrical Design</i> - Mr. Diaz current fessional engineer. Design task included construction plan set development, p	ly provides: hotometric vice sizing.	
10/22	2-Present	44-1135 provides	4, H.014552.5 / I-49, LA 31 INTER the design of this project under the	CHANGE LIGHTING (he supervision of the s	OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA. <i>Electrical Design</i> - Mr. Dia igning professional engineer, participating in the design of the photometric ca	az currently alculations.	
2021	L-Present	AMES B complete photome device si	LVD DECORATIVE STREET LIGHT ed the design of this project under etric calculations, voltage drop and zing. Mr. Montegut currently prov	TING IMPROVEMENT the supervision of the d conduit fill calculatio ides construction engin	S: New Orleans, LA. Electrical Design/Construction Engineering and Inspection signing professional engineer. Design tasks included construction plan set dev ons, conductor sizing, equipment specifications, arc flash hazard analysis, and neering support services.	<i>n</i> - Mr. Diaz velopment, l protective	

FIRM EMPL	OYED BY	G.E.C., In	с.		
NAME	Nicholas	Montegut	, El	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	7
TITLE	Engineer	Intern		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0
DEGREE(S)	/ YEARS / SPEC	IALIZATION		B.S. / 2017 / Electrical Engineering	
ACTIVE REG	SISTRATION NU	JMBER / STA	E / EXPIRATION DATE	35926 / Louisiana / 03-31-2027	
YEAR REGIS	TERED 202	24	DISCIPLINE	Engineer Intern	
CONTRACT	ROLE(S) / BRIE	F DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project: Electrical Design & FAA Permitting	
EXPERIENC (MM/YY–M	E DATES M/YY)	EXPERIENC DATES SHC	E AND QUALIFICATIONS RELEVANT TO T ULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
Mr. Montegut has 6 years of experience in a engineer, he has performed photometric cal and protective device sizing for LADOTD into of generator systems performing generator sizing, protective device coordination ad are is responsible for assisting the project mand of documentation for catalogue or submitte to ProjectWise.			egut has 6 years of experience in a he has performed photometric cal ective device sizing for LADOTD inte- tor systems performing generator- ptective device coordination ad ara sible for assisting the project mana entation for catalogue or submitte Wise.	designing electrical lighting and power systems. As an electrical designer, under the supervision of a p culations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc fla erstate and urban projects. In addition to roadway lighting projects, Mr. Montegut has experience in t -sizing calculations to meet a project's power requirements, voltage drop and conduit fill calculations, c flash analysis using ETAP. He is also a trained CAD Operator and is familiar with Microstation and Au Iger with computer aided drafting of design and annotation elements. Other duties include printing an al, researching as-build plans to assist with design development, utilizing CADconform and uploading	rofessional sh analysis, 'he analysis , conductor utoCad and nd scanning submittals
07/21- SECTION	-Present 17 PROJECT	H.004100 enhancer from the Montegu	D.5 / I-10: LA 415 TO ESSEN LANE ment lighting study for Segment 1 Expressway Park to the bridge. H t is involved in the lighting analys	E ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. Electrical Design - Mr. Montegut assist of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Gree e also assists in the design of the Roadway, Walkway, Underpass, Service Road and Roundabout Li is, voltage drop calculation, and lighting layout of the enhancement lighting.	ed with an nway path ghting. Mr.
09/20- SECTION	Present	H.013897 under the drop, and team. GE College D	7 / I-10 & I-12 COLLEGE DR FLYC e supervision of the signing profe I conduit fill calculations, conducto C is responsible for engineering a r. Flyover Ramp Design-Build Proje	DVER RAMP DESIGN-BUILD: Baton Rouge, LA. <i>Electrical Design -</i> Mr. Montegut completed the d essional engineer. Design task included construction plan set development, photometric calculatio or sizing, equipment specifications, arc flash hazard analysis, and protective device sizing for the GEC and design quality control services as necessary to complete the design and construction for the ect	esign work ns, voltage 2/Boh Bros. I-10 & I-12
07/18-	-Present 17 PROJECT	44-05267 design we voltage d	, H.003074.5 / I-10 WIDENING, ork under the supervision of the sign op and conduit fill calculations, c	WILLIAMS BLVD. TO VETERANS BLVD.: Jefferson Parish, LA. Electrical Design - Mr. Montegut gning professional engineer. Design task included construction plan set development, photometric ca onductor sizing, equipment specifications, arc flash hazard analysis, & protective device sizing.	completed alculations,
10/19	9-10/24	H.011670 provided report co modificat	b / I-10/LOYOLA INTERCHANGE review and comment recomment nsisted of a photometric analysis ions to the I-10 interchange at Loy	IMPROVEMENTS, OWNER VERIFICATION SERVICES: Jefferson Parish, LA. <i>Electrical Review</i> - Mr. dations for the pre-design lighting report submitted by the design firm for this project. The pre-des detailing the existing lighting system and provided an overview of the proposed lighting design co yola Drive.	Montegut ign lighting oncepts for
05/20)-07/24	RETAINE by LADOT Interstate	R CONTRACT FOR ELECTRICAL S D for a six-year retainer contract t E Lighting, Route I-10 project in Or	SERVICES 2019-2024: Statewide, LA. Construction Engineering and Inspection - In July 2019, GEC was to provide Stage 3 (Design) and Stage 5 (Construction Support/Inspection), services. For the I-10: Cro leans Parish (H.013442), Mr. Montegut provided construction-related engineering services.	as selected wder Blvd.
2021-	Present	AMES BI Montegu developm and prote	LVD DECORATIVE STREET LIGH t completed the design of this pr nent, photometric calculations, vo ective device sizing. Mr. Montegut	TING IMPROVEMENTS: New Orleans, LA. <i>Electrical Design/Construction Engineering and Inspe</i> oject under the supervision of the signing professional engineer. Design tasks included construction oltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazar currently provides construction engineering support services.	<i>ction</i> - Mr. on plan set rd analysis,

FIRM EMPL	OYED BY	Arcadis			
NAME	Akhil Cha	uhan, PE, PTOE, PTP, PMP	YI	EARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	17
TITLE	Principal	Traffic and Safety Engineer	YI	EARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	5
DEGREE(S),	/ YEARS / SPEC	TALIZATION	MS / 2003 / Transportation	tion Engineering; BS / 2001 / Civil Engineering	
ACTIVE REG	SISTRATION NU	JMBER / STATE / EXPIRATION DATE	33703 / Louisiana / 09-3	30-2026	
YEAR REGIS	TERED 200	DISCIPLINE	Civil Engineer		
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Tra	affic	
EXPERIENC (MM/YY–M	e dates M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.I SPECIFIED IN THE APPLICABL	E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE .E MPR(S).	RIENCE
Mr. Chauhan is a Principal Traffic Engineer modeling and simulation, transportation p studies, and access management. Akhil has simulation, and planning for public agency use of many macro-, meso-, and microsco MITSIM, Dynameq, DynaMIT, TransCAD, Vi is also a licensed PTOF (#2544) PTP (#246)			er with over 20 years of lanning, demand model successfully led, manage clients located across th pic traffic simulation so sum, and OREMS. Mr. Ch , and PMP (#1444676).	applied research and industry experience in the fields of traffic engineer ing/forecasting, intersection/corridor analysis, warrant analysis, signal des ed, and mentored numerous projects and personnel related to transportation ne nation including several state Departments of Transportation. He is profit ftware programs such as Highway Capacity Software, Vistro, Synchro, Sia nauhan has completed the LADOTD Traffic Engineering Process and Report T	ing, traffic ign, safety modeling, cient in the Ira, Vissim, raining. He
08/13	- 01/20	TRAFFIC ENGINEERING IDIQ CONTRACTS: LADOTD, Statewide, LA. Contract/Project Manager. Provided contract management and server technical advisor for task orders issued under two traffic engineering IDIQs. Services provided included a range of traffic engineering services traffic data collection, intersection and corridor studies, traffic modeling, signal warrant analysis and timing optimization, alternative developed the first mesoscopic mode Dynamed for the state of Louisiana.			
12/16	- 02/20	TRAFFIC SIGNAL ENGINEERING IDIQ: LA advisor for task orders issued under this II modeling and analysis, signal timing optim	DOTD, Statewide, LA. Co DIQ. Serviced provided ir i zation , traffic signal inve	ontract/Project Manager. Provided contract management and served as lea ncluded a range of traffic engineering services including traffic data collect entory, traffic signal design plans , construction cost estimates, and quantiti	d technical tion, traffic es.
11/20 -	1/20 – Ongoing I-10 CMAR – TRAFFIC ENGINEERING SERVICES: LADOTD, East Baton Rouge Parish, LA. Contract/Project Manager. Responsible for contration and technical advisory of all traffic engineering tasks including development of permanent signing plans, signal design and timing plans, I Modification Reports, and Transportation Management Plans for the widening of Interstate-10 from LA 415 to Essen Lane and improinterchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structur scenarios are being evaluated using a calibrated mesoscopic model using Dynameq to determine the impacts during construction and mitigation will be necessary to minimize delay.				
08/14	 SAFETY STUDIES IDIQ CONTRACTS: LADOTD, Statewide, LA. Contract/Project Manager. Provided contract management and served as lead advisor for task orders issued under two safety studies IDIQs. Services provided included a range of engineering services including safety studies, historical crash analysis, collision diagram development, identification of safety deficiencies, traffic data collection, development countermeasures, Highway Safety Manual predictive methods, Stage 0 feasibility studies and documentation, traffic modeling and analysis, and corridor studies, and access management improvements. 				d technical and traffic t of safety itersection
01/18 -	- Ongoing	TRAFFIC ENGINEERING IDIQ - I-20 MESO supervising development of mesoscopic tra on I-20 to replace pavement. The project so operational analysis , assistance with publi	SCOPIC MODEL AND TI iffic model using Dyname cope includes development c outreach, development	MP USING DYNAMEQ: LADOTD, Bossier Parish, LA. Contract Manager. Resp eq to predict queueing, delay and alternate travel patterns due to planned co ent and calibration of mesoscopic model, analysis of alternative routes, safe t t of a Level 4 TMP , and development of work zone mitigation strategies.	onsible for Instruction Ity analysis,

FIRM EMPLOYED BY	Arcadis
NAME Akhil Cha	auhan, PE, PTOE, PTP, PMP Continued Resume
06/19 - 12/19	TRAFFIC SIGNAL DESIGN IDIQ - EBR SIGNAL UPGRADES AND DESIGN: LADOTD, East Baton Rouge Parish, Louisiana. Contract Manager. Responsible for technical oversight and supervision of the development of design and timing plans for upgraded signal detection at 39 signalized intersections from video detection systems to wireless vehicle detection systems (magnetometers).
01/14 – Ongoing	PETE'S HIGHWAY TRAFFIC STUDY AND ENVIRONMENTAL ASSESSMENT: LADOTD, Denham Springs, LA. Principal Engineer. Responsible for contract management and deliverables for the project which included traffic and safety analysis , signal timing and warrant analysis, alternative screening and analysis, preliminary raodway and bridge design, line and grade, Interchange Modification Report, and Environmental Assessment. Purpose of the project is to improving operations and safety along Range Avenue.
04/13 - 12/13	LA 1 AT RONDINAUD LANE SIGNAL UPGRADES: City of Donaldsonville, Ascension Parish, LA. Project Manager. Produced traffic signal design and timing plans and traffic signal inventory (TSI) forms according to LADOTD standards. The signal modification was necessary as a new approach was added to the intersection of LA 1 at Rondinaud Lane. The updated signal required new timing parameters, intersection sketches, wiring diagrams, quantity estimates, and logging signal modifications.
08/14 - 05/15	HIGHLAND-BURBANK CONNECTOR: City of Baton Rouge - Green Light Program, East Baton Rouge Parish, LA. Project Manager. Responsible for design study to evaluate north-south connector and capacity and access management improvements . Alternatives considered restricted intersection types in addition to conventional treatments. Conducted signal warrant analysis and developed signal timings and design plans, including cycle lengths, green times, and clearance intervals.
04/16 – 09/18	SAFETY STUDIES IDIQ - NEW ORLEANS PEDESTRIAN SAFETY IMPROVEMENTS AND DESIGN: LADOTD, Orleans Parish, LA. Principal Engineer. Preparation of Stage 0 feasibility study (in accordance with LADOTD Stage 0: Manual of Standard Practice) of 20 intersections with high occurrence of pedestrian safety issues - especially between motorized and non-motorized travel modes. Scope of services include data collection (for both vehicles and pedestrians), analysis of existing traffic conditions, signal warrant analysis , historic crash data evaluation, investigation of safety deficiencies at each intersection, recommendation of traffic and safety improvements such as traffic signal timing improvements, intersection striping improvements, signing improvements, lighting improvements, sidewalk/crosswalk improvements, curb extensions, traffic calming, ADA compliance including curb ramps, and parking modifications.
05/19 – 11/22	I-20/I-220 INTERCHANGE IMPROVEMENTS AND BAFB ACCESS DESIGN-BUILD: LADOTD, Bossier Parish, LA. Principal Engineer. Responsible for overseeing the development of addendum to Interchange Modification Report, Transportation Management Plan, temporary sign timing and design plans, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20/I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.

FIRM EMPLOYED BY	Arcadis				
NAME Ari Deitc	h, PE, PTC	DE, PTP, RSP		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	11
TITLE Senior Tra	affic and S	afety Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	2
DEGREE(S) / YEARS / SPEC	CIALIZATION		B.S. / 2012 / Biologica	al Engineering	
ACTIVE REGISTRATION N	UMBER / STA	TE / EXPIRATION DATE	41842 / Louisiana / 0	3-31-2026	
YEAR REGISTERED 20	17	DISCIPLINE	Civil Engineer		
CONTRACT ROLE(S) / BRI	EF DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project:	Traffic Engineering, Modeling and Safety Studies	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENC DATES SHO	CE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT, SPECIFIED IN THE APPLICA	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE \BLE MPR(S).	RIENCE
Mr. Deitch is a Senior Traffic Engineer and P and conceptual roadway design. Mr. Deitch and municipalities across the country, perto improvements, complete streets, transpor design. He has experience with traffic anal MicroStation software. Mr. Deitch has con (#690) and RSP (#37)			roject Manager special has experience manag aining to intersection a tation management p ysis software's and me npleted the LADOTD Ti	lizing in traffic engineering studies and design, traffic safety, transportation ma ging and working on a wide range of transportation projects for LADOTD, and nd corridor studies, signal warrant analysis, access management, pedestrian lans, Stage O feasibility studies, NEPA studies, signal design, and signing an ethods and is proficient in Highway Capacity Software, Synchro, Vistro, Vissim raffic Engineering Process and Report Training. He is also a licensed PTOE (#	nagement, other DOTs and bicycle nd marking n, Sidra and t4346), PTP
02/15 – 09/18	TRAFFIC ENGINEERING IDIQ - US 71 CORRIDOR - PHASE II AND III TRAFFIC AND SAFETY CORRIDOR STUDY: LADOTD, Rapides Parish, LA Manager. Responsible for overseeing and managing project tasks including traffic data collection, signal warrant analysis, traffic analysis, crash alternative and countermeasure development, predictive safety analysis, and conceptual drawings.				
08/19 – 02/20	TRAFFIC ENGINEERING IDIQ - US 61 ACCESS MANAGEMENT AND CORRIDOR STUDY: LADOTD, East Baton Rouge Parish, LA. Senior Traffic Engir Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternative maximize operational and safety benefits. Provided technical oversight for traffic analysis using Highway Capacity Software 7, signal warrant analysis, predictive safety analysis. Assisted with the development of construction cost estimates and benefit-cost analysis.				
02/15-01/18	TRAFFIC developr impleme and signa	ENGINEERING IDIQ - LA 3105 (nent/evaluation of existing and f ntation based on identified needs al timing enhancements.	GREEN ACRES TO LA uture year conditions and input from local st	72) CORRIDOR STUDY: LADOTD, Bossier Parish, LA. Traffic Engineer. Respusing a calibrated microsimulation model (Vissim). Designed alternatives akeholders including medians, restricted intersections, roundabouts, roadway	onsible for for phased y widening,
04/19 – 12/19	TRAFFIC Responsi for 39 int	SIGNAL DESIGN IDIQ - EBR SI ble for supervisory tasks and overs tersections in East Baton Rouge Pa	GNAL UPGRADES AN ight of this project invo rish.	ID DESIGN PLANS: LADOTD, East Baton Rouge Parish, LA. Traffic Engineer olving field signal inventory and the creation of updated signal design plans and	of Record. I quantities
04/16 – 09/18	SAFETY for asses locations prioritiza alternativ Environn	STUDIES IDIQ - NEW ORLEANS P issing existing and future safety d b. Developed design drawings for p tion. Conducted safety analysis u wes, obtain feedback, and develop mental Checklists for all 20 intersec	EDESTRIAN STAGE 0 eficiencies related to roposed short-term ar sing Highway Safety M context sensitive solutions.	SAFETY FEASIBILITY STUDY: LADOTD, Orleans Parish, LA. Project Manager. F pedestrian and bicycle modes and selecting safety countermeasures for 2 ad long-term improvement phases and conducted benefit-cost analysis to info fanual predictive methods. Organized and lead project stakeholder meeting utions. Completed Stage 0 documentation including Preliminary Scope and I	esponsible 0 high-risk orm project s to review Budget and
11/20 – Ongoing	I-10 CM/ of perma I-10 from	AR: LADOTD, East Baton Rouge Par anent signing plans, traffic operat a LA 415 to Essen Lane and improv	rish, LA. Senior Traffic ions analysis, Intercha ements to interchange	Engineer: Responsible for wide range of traffic engineering tasks including de inge Modification Reports , and Transportation Management Plans for the v es along this segment.	velopment videning of

FIRM EMPL	OYED BY	Arcadis				
NAME	Kester Ho	ollier, PE, PTOE		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	4	
TITLE	Senior Tra	affic Engineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	16	
DEGREE(S)	/ YEARS / SPEC	CIALIZATION	B.S. / 2004 / Civil Eng	zineering		
ACTIVE REG	GISTRATION N	JMBER / STATE / EXPIRATION DATE	34304 / Louisiana / 0	03-31-2025		
YEAR REGIS	STERED 20	09 DISCIPLINE	Civil Engineer			
CONTRACT	ROLE(S) / BRI	EF DESCRIPTION OF RESPONSIBILITIES	Role on this Project:	Traffic Task Order Manager, Traffic Signal Design & Timing, Traffic Modeling	& Studies	
EXPERIENCI (MM/YY-M	E DATES IM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT SPECIFIED IN THE APPLIC	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE	
Mr. Hollier possesses a wide breadth of ex studies, signal timing and design, roadwa construction management and inspection. phases, has given him the experience to h ranging from local public agencies to stat completed LADOTD Traffic Engineering Pro			perience in traffic eng ay design, complete s Working on a wide va nelp identify the needs te DOTs and helps pro- cess and Report Traini	ineering studies and design including feasibility studies, intersection and constreet improvement projects, traffic modeling and analysis, transportation striety of projects from the planning and conceptual phases to the design and constructions for a variety for projects. This experience allows him to understand stride expertise in achieving successful solutions for a variety of projects. Mr. ng. He is also a licensed PTOE (#3928).	idor traffic safety, and onstruction akeholders Hollier has	
11/20 –	- Ongoing	I-10 CMAR – TRAFFIC ENGINEERING SERVICES: LADOTD, East Baton Rouge Parish, LA. Project Manager. Responsible for traffic engineering to including development of permanent signing plans, traffic signal plans, interchange modification reports, and transportation management plans for widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive historical crash and safety analysis is to performed in support of the IMR and TMP. One critical component of the project is maintaining traffic during the construction of new bridge struction. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that we necessary to minimize delay.				
09/12	- 02/16	STAGE 0 TRAFFIC STUDY AND STAGE 1 EA FOR REPLACING BELLE CHASSE TUNNEL AND BRIDGE: LADOTD, Plaquemines Parish, LA. Lea Engineer. Responsible for the feasibility study and traffic analysis along LA 23 (Belle Chasse Highway) between LA 428 (Behrman Highway) and (Woodland Highway) for multiple 6-lane bridge alternatives that will be proposed to replace the existing Belle Chasse Tunnel and lift bridge of Intercoastal Waterway. These alternatives included 3%, 4%, and 5% bridge grades that modified roadway geometry and intersection location. Responsible for the review of the roadway portion and costs for the Line and Grade Study along with the review of the construction sequencing and traffic main of the constructability review.				
11/17	- 07/20	7/20 LA 466 (5TH STREET) IMPROVEMENTS TRAFFIC STUDY: City of Gretna, Jefferson Parish, LA. Project Manager / Senior Traffic Engineer. Refor the traffic study and impacts for the proposed complete streets improvements along the LA 466 corridor between LA 23 and Richard St. is Louisiana. Tasks included data collection along the corridor and at designated intersections, safety and crash analysis along the corridor, trip ge land use and performing existing traffic analysis and future traffic analysis for proposed final alternative. The traffic study was prepared to f Louisiana Department of Transportation and Development's Traffic Engineering Process and Report Guidelines. The project also included a star pedestrian study along the corridor at designated intersection and the design of accessible pedestrian signals at signalized intersections.				
12/17	- 11/19	CAUSEWAY BOULEVARD WIDENING TR safety study for the proposed widening o data collection, traffic volume redistribution preferred alternative.	AFFIC STUDY: Jeffers f Causeway Boulevard on, left-turn placement	on Parish, LA. Project Manager / Senior Traffic Engineer. Responsible for the between Metairie Rd. and West Esplanade Blvd. in Jefferson Parish, LA. Tasl t and turn bay storage length, and existing traffic analysis and future traffic a	traffic and (s included nalysis of a	

FIRM EMPLOYED BY	Arcadis				
NAME Max Ag	uirre, PhD,	PE, PTOE, RSP ²¹		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6
TITLE Transpo	rtation Eng	ineer		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	1
DEGREE(S) / YEARS / SP	ECIALIZATION		B.S. / 2013 / Civil Eng	gineering; M.S. / 2015 / Construction Management; Ph.D. / 2018 / Engineering	g Science
ACTIVE REGISTRATION	NUMBER / STA	TE / EXPIRATION DATE	47579 / Louisiana / 0	09-30-2025	
YEAR REGISTERED 2	023	DISCIPLINE	Civil Engineer		
CONTRACT ROLE(S) / BR	RIEF DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project:	Safety	
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENC DATES SHC	EE AND QUALIFICATIONS RELEVANT TO T DULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRAC SPECIFIED IN THE APPLIC	Γ; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE
	Dr. Aguir studies, f Highway software and Repo	re has experience working on pro easibility studies, pedestrian and Capacity Manual, Highway Safety programs including IHSDM, Syncl ort Training. He is also a licensed P	jects for Louisiana De bicycle improvements v Manual, MUTCD, an nro, GuidSIGN, HCS ar TOE (#5291) and RSP2	partment of Transportation and Development (LADOTD) pertaining to traffic , permanent signing design, signal design, and NEPA studies. He is also familie ad AASHTO "Green Book". Dr. Aguirre is also knowledgeable in the application ad MicroStation software. Dr. Aguirre has completed LADOTD Traffic Engineeri ?! (#182).	and safety ar with the of several ing Process
08/19 – 02/20	TRAFFIC ENGINEERING IDIQ - US 61 ACCESS MANAGEMENT AND CORRIDOR IMPROVEMENTS (AIRLINE HWY) FEASIBILITY STUDY: LAD East Baton Rouge Parish, LA. Traffic Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements a US 61 and identify feasible alternatives to maximize operational and safety benefits. Evaluated the need for pedestrian and bicycle accommoda based on historical crash data and adjacent land use. Assisted in conducting traffic analysis and the development of benefit-cost analysis to compare effectiveness of the proposed alternatives.				
SAFETY STUDIES IDIQ - BATON ROUGERouge Parish, LA. Traffic and Safety Engin09/19 - 06/21modes at identified high-risk intersectionspriority locations with a history of pedestrevaluate safety deficiencies and develop s			EDESTRIAN AND BIG eer. Assisted with the and segments in East an and/or bicycle cras fety countermeasures	CYCLE SAFETY ACTION PLAN AND ROAD SAFETY ASSESSMENTS: LADOTD, assessment of existing and future safety deficiencies related to pedestrian a Baton Rouge Parish. Assisted with the development of screening criteria to id shes. Conducted Road Safety Assessments (RSAs) at 10 priority locations to ic s to improve safety for pedestrians and bicyclists.	East Baton and bicycle entify high dentify and
10/19 - 07/21	I-10 NEV Safety En along cri Shoulder	V ORLEANS TO SLIDELL HARD S gineer. Purpose of the project was tical segments of the corridor. As Running (HSR) alternatives on I-1	HOULDER RUNNIN to evaluate the feasib ssisted in safety anal 0 between New Orlea	G TRAFFIC AND SAFETY FEASIBILITY STUDY: LADOTD, Orleans Parish, LA. ility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and ysis and development of conceptual drawings and typical sections for prop ns and Slidell.	Traffic and congestion oosed Hard
11/20 – Ongoing	I-10 CM/ including from LA including	AR TRAFFIC ENGINEERING SERV development of permanent signi 415 to Essen Lane and improvem tasks such as crash data analysis,	/ICES: LADOTD, East ing plans, Interchange eents to interchanges collision diagrams, an	Baton Rouge Parish, LA. Traffic and Safety Engineer. Assisting in traffic engine Modification Reports , and Transportation Management Plans for the wider along this segment. Assisted in the development of existing condition safe d crash report documentation.	ering tasks ning of I-10 ty analysis

FIRM EMPLOY	YED BY	Arcadis				
NAME	Tait Karls	on, PE, PTOE	YEAF	RS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	>1	
TITLE	Senior Tra	iffic Engineer	YEAF	RS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	20	
DEGREE(S) / Y	YEARS / SPEC	IALIZATION	B.S. / 2001 / Civil Enginee	ring; M.S. / 2005 / Transportation Engineering		
ACTIVE REGIS	STRATION NU	IMBER / STATE / EXPIRATION DATE	40438 / Louisiana / 09-30-	-2026		
YEAR REGISTE	ERED 201	DISCIPLINE	Civil Engineer			
CONTRACT R	OLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Traffi	c		
EXPERIENCE I (MM/YY-MM)	DATES 1/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., ' SPECIFIED IN THE APPLICABLE N	'DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPENNER (S).	RIENCE	
		Mr. Karlson has over 20 years of experient and delivering a range of traffic engineer and access management studies. Project including High Capacity Software (HCS), S Manual, Highway Safety Manual, LADOTE and Report Training.	e in the field of traffic engin ng tasks including intersect applications include feasibil nchro, Vissim, SIDRA, and M manuals and EDSMs, and A	eering. As a senior traffic engineer for Arcadis, his responsibilities include ion and corridor studies, safety studies, signal design, ITS design, comple ity studies and traffic and ITS design projects. He is proficient in relevan icroStation and is well versed in the policies and procedures in the Highwo ASHTO Greenbook. Tait has also completed the LADOTD Traffic Engineeri	managing ete streets, it software iy Capacity ing Process	
05/17 –	- 03/19	US 171 (MLK BLVD) IMPROVEMENTS: LADOTD, Lake Charles, LA. Senior Traffic Engineer. Developed a calibrated VISSIM model for existing condi and the future no-build conditions along US 171 in Lake Charles, LA. Alternative improvements were recommended and modeled to determine the solutions to improve the corridor. The project included data collection, development of growth rates, developing and calibrating an existing VISSIM m and evaluation and development of alternatives. no-build and the alternatives, calibrating the models, developing the final report, and performing OC review.				
06/12 –	- 09/13	ABRAMS STREET (COOPER STREET TO Abram Street Pilot Project (Cooper Street on the City's ability to fully implement t potential diversion of Abram Street traffic project develops concept alternatives for recommendations; and preparation of the	COLLINS STREET): City of A to Collins Street). The report e Downtown Master Plan's to other area roadways as all modes of transportation feasibility study report.	rlington, Tx. Traffic Engineer. Performed a traffic and concept study as a ort further stated that the future design of Abram Street will have a dir vision to revitalize the downtown area. Traffic study identifies and est travel lane capacity is removed from the corridor. The concept study por and pedestrians. Tait was responsible for traffic analysis; alternative an	part of the ect impact imates the tion of the nalysis and	
09/11 -	05/12	MS 30 AT LAFAYETTE CR 215/217: MDO improvements at the intersection of MS intersection while maintaining efficient to intersection. Tait helped develop the con- perform the safety and benefit/cost anal	, MS. Traffic Engineer. The p 0 and CR 215/217. MDOT's affic flow. The study concluc epts of the initial alternative r <mark>sis</mark> .	roject goal was to conduct a feasibility study and develop plans for propo goal was to implement improvements that would likely reduce crashes a led that construction of a roundabout would best address the critical ne es and then used the extensive procedure outlined in the Highway Safety	osed safety It this rural eds of this Manual to	
05/24 - C	Ongoing	SCENIC HIGHWAY FEASIBILITY STUDY project is to develop feasible alternatives Arcadis is providing signal design for the	ND SIGNAL DESIGN: City of hat enhance safety and acce referred alternative, which i	of Baton Rouge, East Baton Rouge Parish, LA. Senior Traffic Engineer. Purp ssibility for non-motorized modes. Following the completion of the feasib ncludes signal upgrades at existing intersection and a new HAWK signal.	oose of the i lity study ,	
05/24 –	05/24	SR-67 FROM US 49 TO LICKSKILLET RO Road to US 49	D: MDOT, Harrison County,	MS. Senior Traffic Engineer. The roadway project along MS 67/SR 67 from	ו Lickskillet	

Fulfills MPR 6

FIRM EMPLOYED BY	C&M Associates, Inc. of Texas					
NAME Jonathan	Pagan	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	5			
TITLE Senior Di	rector	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	30			
DEGREE(S) / YEARS / SPEC	IALIZATION	M.A. / 1997 / Transport Economics; B.A. / 1990 / Economics				
ACTIVE REGISTRATION NU	JMBER / STATE / EXPIRATION DATE	N/A				
YEAR REGISTERED N/	A DISCIPLINE	N/A				
CONTRACT ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Sketch-Level Traffic and Revenue (T&R) Lead; C&M Project Manager				
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPLETE SPECIFIED IN THE APPLICABLE MPR(S).	ERIENCE			
Mr. Pagan has over 30 years of consulting a and traffic and revenue expert specializing billion in revenue bonds and other financing USDOT Inspector General. He is also highly agency Board of Directors, local government 15 years, he is well versed at working close operations, and legal. Mr. Pagan's experied partnership (P3) and private sector bids. As state, and national governments, multilat		and management experience in international highway, rail, and airport infrastructure. He is a demand in investment grade studies and bond related support. He has managed feasibility studies supporti- ngs, has supported over \$5 billion in successful TIFIA applications, and has defended forecasts for auc y experienced in presenting findings to the financial community including rating agencies, investor is ent commissioners/supervisors, and expert testimony. Working almost exclusively in the toll industry ely with tolling operators and within teams of advisors including financing, operations, technical, env ence also includes overseas highway appraisal, benefit-cost analysis and traffic advisory roles for pu s a transportation economist, Mr. Pagan has performed original studies, audits, and due diligence fo teral agencies, developers, and investors. Working in more than 15 countries, he is skilled in tra ness/investment appraisal.	l forecasting ng over \$20 liting by the road shows, for the past ironmental, ıblic-private r municipal, nsportation			
04/23 – 05/23	I-10 CALCASIEU RIVER BRIDGE SKETCH- Calcasieu River Bridge replacement in Lou frequency discounts using data, modeling,	-LEVEL T&R STUDY: Lake Charles, LA. Lead T&R Advisor – Lead T&R advisor for a shortlisted bid to uisiana. Sketch-level through to investment grade study, including a review of HOV policies, local dis , and analysis to support bid decisions.	eam for the scounts and			
01/16 - 12/18	12/18 ILLINOIS DOT I-55 MANAGED LANES SKETCH-LEVEL TRAFFIC AND REVENUE (T&R) ANALYSES: Chicago, IL. Project Manager – Project Manager T&R forecasting for the potential addition of managed lanes to I-55 outside Chicago. Advised IDOT considering the best approach to develop the pro Performed network model development. Prepared sketch-level and updated T&R forecasts. Led presentations/discussions with Illinois Secretar Transportation.					
04/13 - 07/13	D.C. DISTRICT DOT (DDOT) MANAGED L feasibility study for a network of managed window model and a spreadsheet model. A report, incl. diversion analysis.	ANES SKETCH-LEVEL T&R: Washington, D.C. Project Manager – Project Manager and Lead T&R Adv d lanes. Estimated sketch-level T&R by project, by toll-paid and carpool, and by time of day using t Analyzed impacts on Potomac River crossings under several scenarios. Provided model outputs for th	visor on this he MWCOG ne feasibility			
02/14 - 09/14	VIRGINIA DOT (VDOT) HAMPTON ROAL (sketch-level) traffic and revenue estimate OTP3. Most of these projects are being correconnaissance, refinement of the MPO m	DS IMPLEMENTATION PLAN: Hampton Roads, VA. Project Manager – Responsible for developing preliminary es for seven potential toll projects in the Tidewater Region of Virginia as a sub consultant to KPMG for VDOT/ considered as potential managed lanes projects. Directed staff on multiple tasks including data collection and nodel and development of a spreadsheet model to estimate HOT lane usage. Conducted operational analysis .				
07/21 – Present	GEORGIA DOT (GDOT) I-285 AND SR 400 policies, tolling plans, operations, and prov	D LEVEL 2 T&R STUDIES: Atlanta, GA. Senior Advisor – Provided input and reviews of T&R assumpt viding general support to GDOT and the prime consultant.	ions, tolling			
08/23 – 12/23	BERTHOUD TUNNEL SKETCH-LEVEL TRA feasibility of a long-proposed tunnel provi for the region including special generators I-70 and the tunnel.	AFFIC AND REVENUE STUDY: Berthoud, CO. Project Manager – Led a sketch-level T&R study to e ding safe and fast access to the Winter Park Resort. Managed a team that reviewed the socioecond and willingness to pay tolls on both the tunnel bypassing the Berthoud Pass as well as the express lan	examine the omic growth les between			

FIRM EMPLO	OYED BY	C&M Associates, Inc. of Texas
NAME	Jonathan	Pagan Continued Resume
2020 - 01/25 -	– 2022; - Present	COLORADO DOT (CDOT) FLOYD HILL INVESTMENT GRADE T&R STUDY AND UPDATE: Clear Creek County, CO. Project Manager – Project Manager for prime consultant, leading a team providing investment grade T&R and financial analysis, including support with rating agencies and TIFIA, in the consideration of westbound tolled peak period shoulder lanes in the Mountain Corridor. Devised new approaches and methodologies for this project in a recreational demand corridor setting.
03/19	-04/19	FOLEY BEACH EXPRESS: Baldwin County, AL. Expert Witness – Worked directly with legal counsel prior to and during hearings to rebut arguments regarding the necessity for a new toll-free crossing in the vicinity of the existing privately-owned toll bridge in Orange Beach, AL.
2007	- 2014	DULLES TOLL ROAD/DULLES METRORAIL FINANCING: Dulles, VA. Project Manager – Project manager of this high-profile study to determine the financial feasibility of toll rate adjustments for bond finance to construct the \$5bn+ Dulles Metrorail project for almost seven years. Led three investment grade studies and an update study involving data collection, market research, modeling, and forecasting through to Board, rating agency and investor recording and presentations. Provided inputs at key Dulles Corridor Advisory Committee meetings to County and State officials and Public Meetings. Underwent successful USDOT Inspector General Review and TIFIA Application. Member of the Dulles Metrorail finance working team.
2006 – 2014		HARRIS COUNTY TOLL ROAD AUTHORITY T&R CONSULTANT: Houston, TX. Project Manager – Served as the project manager on studies to review future rate setting policies to ensure the revenue sufficiency requirements of HCTRA's updated business plan. High level studies performed include value pricing for Westpark Tollway, and dynamic pricing of managed lanes on IH-10. Project manager for a Systemwide Toll Rate Study, the Beltway 8 NE Investment Grade Study, Grand Parkway Investment Grade T&R Study, Segments E to G and the Tomball Tollway Investment Grade study for Harris and Montgomery counties. Also, led a Systemwide Investment Grade Study for the \$600M+p.a. HCTRA facilities and a revisit of dynamic pricing algorithms.
2006 – 2013		TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY T&R CONSULTANT: Tampa, FL. Project Manager – Project Manager for this multi-county toll authority in Tampa, Florida. Managed all traffic and revenue forecasting, including annual certification of revenues and preparation of the Authority's annual traffic report. Project Manager for several ongoing planning efforts, including AET conversion. In 2012, completed an investment grade study for THEA, including presentations to the Board and Rating Agencies through to the bond sale.

FIRM EMPLOYED BY	C&M Ass	ociates, Inc. of Texas				
NAME Manuel S	Sanchez			YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	6	
TITLE Senior Tra	or Transportation System Modeler			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	6	
DEGREE(S) / YEARS / SPEC	CIALIZATION		B.S. / 2017 / Econom	ics		
ACTIVE REGISTRATION N	JMBER / STAT	FE / EXPIRATION DATE	N/A			
YEAR REGISTERED N/	A	DISCIPLINE	N/A			
CONTRACT ROLE(S) / BRI	EF DESCRIPTI	ON OF RESPONSIBILITIES	Role on this Project:	Sketch-Level Traffic and Revenue (T&R) Support		
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENC DATES SHO	E AND QUALIFICATIONS RELEVANT TO T ULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT	; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE ABLE MPR(S).	RIENCE	
12 years of experience	Mr. Sánch of produc for road µ He has su and econ	nez is a specialist in economic anal tive projects with a focus on Public projects with a probabilistic appro bstantial experience in the Denver omists in the cities and towns nor	ysis with 12 years of pr -Private Partnerships. ach, and cost-benefit c metropolitan region ir th of Denver.	rofessional experience, including 7 years of experience in the evaluation and de For the last 2 years, he has been working as a specialist in inferential statistics, f analysis for public projects. In reviewing socioeconomic forecasts for I-25N and I-70, including interviews wit	velopment ^c orecasting th planners:	
04/23 - 05-23	I-10 CAL	CASIEU RIVER BRIDGE P3 SKET(ration transportation model.	CH-LEVEL T&R STUDY	: Lake Charles, LA. Task Lead – Socioeconomic estimation and forecast model	ing for the	
01/24 - 12/24	TEXAS D providing network	OT (TXDOT) BORDER MASTER the Texas Statewide Analysis Mo analysis to precisely identify existi	PLAN: Texas, statewid del (Texas SAM) netw ng network requireme	le. Task Lead, Analyst – Oversaw the operational management of the team to ork assignment with the current network and socioeconomic data. Performents. Utilized forecasted traffic data to evaluate future network needs.	asked with ed a traffic	
02/22 – 12/22	COLORA Conducte	DO DOT (CDOT) I-25 NORTH EX	PRESS LANES LEVEL 2 the study.	2 T&R STUDY: Denver, CO. Task Lead – Socioeconomic estimation and forecas	st modeler.	
01/23 – Present	GORDIE Analyst – Detroit B	HOWE INTERNATIONAL BRIDG Providing oversight of the socioe ridge Authority (WDBA) in its toll i	E INVESTMENT GRA conomic analysis for trate setting.	DE T&R AND PRICE ELASTICITY STUDY: Windsor, Ontario and Detroit, MI. this high-profile planned international bridge. The study aims to support the	Task Lead, Windsor–	
10/23 - 08/24	10/23 – 08/24 LAREDO-NUEVO LAREDO INTERNATIONAL E Analyst – Oversaw the efforts on the border cro international bridge in the Laredo region. Addition			IAL BRIDGE (BRIDGE 4/5) INVESTMENT GRADE TRAFFIC AND REVENUE STUDY: Laredo, TX. Task Lead, r crossing regional forecast as part of the inputs for the updated Binational Travel Demand Model for a new dditionally, oversaw the Risk Analysis assessment based on the Traffic and Revenue outcomes.		
10/23 - 12/23	I-40 CHO I-40 corri	ICE LANES SKETCH-LEVEL T&R S dor near Knoxville, TN.	STUDY: Knoxville, TN.	Task Lead – Provided a traffic and revenue forecast for a managed lanes prop	osal in the	
05/23 – 09/23	PUERTO and Mexi	VERDE GLOBAL TRADE BRIDGE co. Developed growth projections	SKETCH-LEVEL T&R Store border crossings in	STUDY: Eagle Pass, TX. Task Lead – Forecasted T&R for a proposed bridge betw n the study area, as well as revenue projections for the proposed bridge.	veen Texas	
12/20 - 07/21	BROWNS and proce	SVILLE & MATAMOROS INTERN essed border crossing data, perfor	ATIONAL BRIDGE T& med an economic ana	R STUDY: Brownsville, TX. Task Lead – Developed border crossing forecasts, r lysis of the study area, and estimated trip generation and its TAZ-level distribution	esearched	

FIRM EMP	OYED BY	C&M A	ssociates, Inc. of Texas						
NAME	Ferna	ndo Escoba	r		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	5			
TITLE	Senio	r Transporta	tion System Modeler		YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	11			
DEGREE(S)	/ YEARS /	SPECIALIZATIO	٧	B.S. / 2005 / Industria	I Mechanics Engineering				
ACTIVE RE	GISTRATIC	N NUMBER / S	TATE / EXPIRATION DATE	N/A					
YEAR REGI	STERED	N/A	DISCIPLINE	N/A					
CONTRACT	ROLE(S)/	BRIEF DESCRII	TION OF RESPONSIBILITIES	Role on this Project: S	ketch-Level Traffic and Revenue (T&R) Support				
EXPERIENC (MM/YY-N	e dates IM/yy)	EXPERIE DATES S	NCE AND QUALIFICATIONS RELEVANT TO HOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; SPECIFIED IN THE APPLICA	I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE BLE MPR(S).	RIENCE			
16 years o	of experie	nce deman as well	obar has 16 years of experience wo d modeling and data collection and as survey design and data collectio	rking in traffic and trans analysis. He has worked n for transportation pla	sit projects for private and public sectors clients. His experience covers the area d on traffic and revenue studies for roadway projects at national and internation nning studies.	as of travel onal levels,			
04/23	- 05/23	I-10 CA model tables	LCASIEU RIVER BRIDGE SKETCH and analyzed project alternatives. and illustrations for the Final Repor	-LEVEL T&R STUDY: La Collected and analyzed t.	ake Charles, LA. Travel Demand Modeler – Developed and calibrated the trav traffic counts and operating speeds. Performed a sensitivity analysis of VOT	el demand . Prepared			
06/20 01/25	– 10/23 – Preser	, and ca	ADO DOT (CDOT) FLOYD HILL IN ibrated the travel demand model for Prepared tables/illustrations for th	VESTMENT GRADE T8 or dynamic tolling. Colle e report.	R STUDY AND UPDATE: Clear Creek County, CO. Travel Demand Modeler – ected and analyzed traffic counts and operating speeds. Performed a sensitiv	Developed ity analysis			
02/22	- 12/22	CDOT tolling. Report	-25 NORTH EXPRESS LANES LEV Collected and analyzed traffic cour	EL 2 T&R STUDY: Trave its and operating speed	el Demand Modeler – Developed and calibrated the travel demand model for the sensitivity analysis of VOT. Prepared tables and illustrations for the sensitivity analysis of VOT.	or dynamic or the Final			
07/23	- 01/24	PROJE dynam illustra	CT ORCA INVESTMENT GRADE T c tolling. Collected and analyzed tr ions for the Final Report.	&R STUDY: Denver, C affic counts and operat	O. Travel Demand Modeler – Developed and calibrated the travel demand ing speeds. Performed a sensitivity analysis of value of time (VOT). Prepared	model for tables and			
11/21	- 01/22	HIDAL Model existin for the	HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY (HCRMA): 365 TOLL INVESTMENT GRADE T&R STUDY: Hidalgo County, TX. Travel Modeler – Updated network and traffic counts for the travel demand model and updated generation and distribution based on the information f existing LRGV model. Calibrated the base scenario and assignment to the project for the years 2025, 2030, 2040, and 2045. Developed tables and for the report and calculated the project's traffic and revenue forecast.						
06/21	- 09/21	1 DONNA–RIO BRAVO INTERNATIONAL BRIDGE INVESTMENT GRADE T&R STUDY UPDATEXX: Location, ST. Travel Demand Modele Modeler responsible for modeling and analyzing project alternatives.				el Demand			
01/21	- 10/21	CDOT calibra analysi	DOT I-25 NORTH SEGMENT 2 (US 36 TO 120TH AVENUE) LEVEL 2/INTERMEDIATE T&R STUDY: Denver, CO. Travel Demand Modeler – Developed and Ilibrated the travel demand model for the analysis of the sub-area. Collected and analyzed traffic counts and operating speeds. Performed a sensitivity nalysis of VOT. Prepared tables and graphs for the report.						
05/19	- 08/19	T&R S ⁻ inputs	UDY UPDATE FOR OTAY MESA II such as fare and traffic counts, calib	NTERNATIONAL BRID	GE PROJECT: Tijuana, Mexico. Travel Demand Modeler – Updated travel dem odel, and estimated the demand forecast.	and model			

FIRM EMPL	OYED BY	G.E.C., Inc.		
NAME	Kevin Ho	rn, PhD, PE (part-time)	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	22
TITLE	Senior Na	vigation Economist	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	29
DEGREE(S)	/ YEARS / SPEC	IALIZATION	Ph.D. / 1975 / Logistics & Marketing ; MBA / 1971 / Transportation and Physical Distribution; B.S. / Transportation and Accounting	1969 /
ACTIVE REG	GISTRATION NU	JMBER / STATE / EXPIRATION DATE	N/A	
YEAR REGIS	STERED N/	DISCIPLINE	N/A	
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Navigation Economist	
EXPERIENC (MM/YY–M	e dates IM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENCE	THE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPE SPECIFIED IN THE APPLICABLE MPR(S).	RIENCE
		Dr. Horn has over 50 years' experience in simulation modeling, cargo forecasting, eva and overseas harbors. He has taught transpo Dr. Horn has worked extensively in transpon (prior to 2003). As a consultant to the Corp field research and in-depth shipper intervie developed offshore tug-barge costs and sup a long-term projection of commodities for to assisted the Corps of Engineers in the revisi and revised in 2008.	transportation, freight, and vessel planning, research, and analysis. His experience includes logistic iluation of vessel fleet trends, facility congestion impact studies, and multimodal analysis for river basin portation economics and logistics at two universities and published over 40 articles on transportation and rtation with the U.S. Army Corps of Engineers as a self-employed consultant and subcontractor such of the has conducted studies on the impacts of lock congestion on barge shippers. The studies require ws. He was responsible for the design and specification of the COE's towboat and barge operating con- pervised the specification of deep-draft ocean vessel costs. His experience in waterway network analys he Gulf Intracoastal Waterway (GIWW) and feasibility analyses for deepening of the Houma Navigation ion of the "Deep Draft Navigation Planning Manual of Guidance for Corps Planners" that he co-author	es analysis, s, seaports, nd logistics. Is with GEC d extensive sts. He also ses includes n Canal. He red in 1991
21	015	VESSEL TRAFFIC FORECAST FOR THE GIV WATERWAY SYSTEM AS IT RELATES TO Orleans, LA. <i>Economist</i> A very long-ter prepared. Because the major categories of consumption forecasts were extrapolated full time frame of with-project conditions of to use the GIWW system and Calcasieu Loo	WW AS IT RELATES TO THE CALCASIEU LOCK VESSEL TRAFFIC FORECAST FOR THE GULF INTRATINE IHNC LOCK ECONOMIC UPDATE STUDY. USACE, NEW ORLEANS DISTRICT: Calcasieu Lock, m commodity and vessel forecast for the GIWW and the Calcasieu Lock and the GIWW and the of barge traffic through the GIWW system are energy related, specialized long-term energy prod from the US DOE. The DOE forecasts extending to year 2035 and 2040, respectively were extrapola extending out to 2072 and 2074, respectively. The result is a forecast of commodity tons and vessel ck and the GIWW system and IHNC.	ACOASTAL LA & New HNC was uction and ted for the s expected
21	013	VESSEL TRAFFIC FORECAST FOR THE G Economist A very long-term commodity the major categories of barge traffic throug chemicals) specialized long-term energy p forecasts extending to year 2035 were ext commodity tons and vessels expected to u	IWW AS IT RELATES TO THE CALCASIEU LOCK, USACE, NEW ORLEANS DISTRICT: CALCASIEU and vessel forecast for the Gulf Intracoastal Waterway (GIWW) and the Calcasieu Lock was prepare gh the GIWW system including the Calcasieu Lock are energy related (crude oil, refined petroleum pr roduction and consumption forecasts were extrapolated from the US Department of Energy (DOE) trapolated for the full-time frame of with-project conditions extending out to 2072. The result is a use the GIWW system and Calcasieu Lock.	LOCK, LA. d. Because oducts and . The DOE forecast of
2009	- 2010	CALCASIEU RIVER DMMP: Calcasieu Rive between mouth and Port of Lake Charles a	er, LA. <i>Economist</i> - Dr. Horn developed economic NED benefits for maintenance dredging of the Calc and associated facilities.	asieu River
2017	- 2022	THIRD PARTY EIS FOR THE MID-BARATA was prepared under the direction of USAC 404 of the Clean Water Act (CWA) and Sect impact analyses along the Mississippi Rive	RIA SEDIMENT DIVERSION (MBSD) (BA-153), CPRA: Plaquemines Parish, LA. <i>Navigation Speciali</i> E, New Orleans District, to aid in their decision-making regarding CPRA's permit application pursuant ion 10 of the Rivers and Harbors Act, and permissions under 33 U.S.C. Section 408. Dr. Horn provided er and developed associated reports and report sections.	st - The EIS to Section navigation
FIRM EMPL	OYED BY	G.E.C., Inc.		
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NAME	Kevin Ho	rn, PhD, PE Continued Resume		
2007	- 2018	HOUMA NAVIGATION CANAL AND COMMERCIAL CANAL (PORT OF IBERIA) TRAFFIC STUDY HOUMA NAVIGATION CANAL ECONOMIC FEASIBILITY OF DEEPENING FEASIBILITY REPORT AND EIS FOR THE HOUMA NAVIGATION CANAL: Port of Iberia. <i>Economist</i> - Dr. Horn developed a complete inventory of the number and types of vessels transiting the waterway including those not customarily reported to Waterborne Commerce to have a total vessel count for subsequent bank erosion estimates. Dr. Horn developed NED deepening benefits for lightly used industrial waterway for off shore oil and gas industry vessels currently draft impaired by existing without-project conditions. This project required interviews with over 40 shippers, users and service providers to develop a range of benefits from diversion of vessels from longer trips to reduced tug escorts, etc. He also assisted with the Section 203 Feasibility Report and EIS for the HNC Deepening Project.		

FIRM EMPL	OYED BY	NTB Associates, Inc.									
NAME	Amy K. So	hulze, PE, CFM	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	7							
TITLE	Sr. Project	Engineer	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	20							
DEGREE(S)	/ YEARS / SPEC	IALIZATION	B.S. / 1998 / Civil Engineering								
ACTIVE REG	ISTRATION NU	IMBER / STATE / EXPIRATION DATE	30295 / Louisiana / 03-31-2027								
YEAR REGIS	TERED 200	DISCIPLINE	Civil Engineer								
CONTRACT	ROLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Traffic								
EXPERIENCI (MM/YY–M	E DATES M/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).								
27 years o	f experience	Mrs. Amy Schulze, PE, CFM will serve as NT utility designating/ locating services. CFM Competency #WA2028 (Staking University)	BA SUE Project Engineer/ Manager during this contract. She will supervise and manage any required National Certification: US-16-08839 / Electro-Magnetic Locating Instruments Certified/ Certificate	subsurface of Locating							
08/20	Y CORRIDOR PHASE 2: Baton Rouge, LA (Unknown) SUE Project Manager for QL B, C, & D subsur can Airport. Surveys were performed to locate subsurface utilities within the designated limits. As p e also performed to confirm that no other utilities exist within the project area.	face utility art of Q LB									
01/22	- 03/25	LADOTD JIMMIE DAVIS BRIDGE (LA 511) DESIGN-BUILD: Bossier & Caddo Parishes, LA (H.001779) SUE Project Manager for surveys in support of SUE QL A, B, C, & D utility designating /locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Re River.									
04/21	- 03/25	LADOTD RURAL BRIDGE REPLACEMENT subsurface utility services for 21 bridge and	T INITIATIVE PHASE II, DISTRICTS 02, 03, 07, 61, & 62 (4400019338): SUE Project Manager for d culvert replacements as a sub-consultant to Sigma/ Waggoner.	CQLC&D							
08/21	- 03/25	LADOTD RURAL BRIDGE REPLACEMENT utility services for 34 bridge and culvert rep	INITIATIVE PHASE II, DISTRICTS 05, 08, & 58 (4400019337): SUE Project Manager for QL C & D subsurface lacements as a sub-consultant to BKI.								
08/22	- 03/25	CENTERPOINT ENERGY SURVEY & SUE SI designating services and surveys in support assist with utility relocation activities. To d and along the Northshore of Lake Pontchar	ERVICES, LA (VARIOUS PROJ. NOS. THROUGHOUT LA): SUE Project Manager for QL B, C, & D subsu t of SUE as required by ASCE 38-02 in various parishes throughout Louisiana as a CenterPoint repres ate, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to S rtrain.	rface utility entative to Shreveport,							
06/24	- 08/24	ST. TAMMANY PARISH GOVERNMENT C D utility designating services and surveys i surface streets, drainage ways, and 2 major	ARROLL ROAD SURVEY & SUE, ST. TAMMANY PARISH, LA (42200856): SUE Project Manager for C in support of SUE throughout the approximately 1.5 miles of the project corridor of Carroll Road ir r intersections within and surrounding the project corridor.	L B, C, and רכוuding all							
06/24	- 08/24	ASCENSION PARISH GOVERNMENT LA subsurface utility designating services, and Inc. Project services included utility design utilities, approval of relocation plans, reloc	73 TO LA 30 ROUNDABOUT, ASCENSION PARISH, LA (MA-23-08): SUE Project Manager for QL surveys in support of SUE for the intersection improvements for a new roundabout as a sub-consult ation, constructability review meetings with utility companies, utility relocation coordination with ation construction inspection, and utility allocation plans.	B, C, and D ant to GEC, all affected							
02/21	- 02/24	LADOTD IDIQ CONTRACT FOR SUE SERV directed QL B, C, D subsurface utility design on-going design-build contract.	TICES, I-10, TASK ORDERS 1, 2, 4, & 5, EAST BATON ROUGE PARISH, LA (4400014660): SUE Project nating services for four task orders for several additional areas around the I-10 corridor in conjunction of the several additional areas around the I-10 corridor in conjunction of the several additional areas around the I-10 corridor in conjunction of the several additional areas around the I-10 corridor in conjunction of the several additional areas around the I-10 corridor in conjunction of the several additional areas around the I-10 corridor in conjunction of the several additional areas around the several additional areas around the I-10 corridor in conjunction of the several additional areas around the several addition of the several additional areas around the several addition of the se	ct Manager on with the							
02/20	- 05/22	CITY OF BATON ROUGE/ EAST BATON I (19-CP-HC-0034): SUE Project Manager for corridor.	ROUGE PARISH, MOVEBR BLUEBONNET BLVD. (PERKINS – PICARDY) EAST BATON ROUGE P QL A, B, C, and D subsurface utility designating/ locating throughout the approximately 1.5 miles of	ARISH, LA the project							

FIRM EMPI	LOYED BY	NTB Assoc	ciates, Inc.									
NAME	Patrick C	. Staiano, P	LS		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER 5							
TITLE	Staff Surv	/eyor			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	10						
DEGREE(S)	/ YEARS / SPEC	CIALIZATION		B.S. / 2008 / Construc	ction Management							
ACTIVE REG	GISTRATION N	UMBER / STATE	/ EXPIRATION DATE	5130 / Louisiana / 09	9-30-2025							
YEAR REGI	STERED 20	15	DISCIPLINE	Professional Surveyor	r							
CONTRACT	ROLE(S) / BRII	EF DESCRIPTIO	N OF RESPONSIBILITIES	Role on this Project:	SUE							
EXPERIENC (MM/YY-N	CE DATES 1M/YY)	EXPERIENCE DATES SHOU	AND QUALIFICATIONS RELEVANT TO T JLD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).								
15 years o	of experience	Mr. Patrick will assist i	k Staiano will serve as NTBA Assis in the review of field data, proces	tant Project Manager ssing, coordination, an	providing supervision for subsurface utility designating/ locating during this c d deliverable preparation. ATSSA TCS	ontract. He						
02/25	- 03/25	BATON Re manageme Surveys we performed	OUGE NORTH AIRPARK UTILI ent of field crews and technicians ere performed to locate subsurf I to confirm that no other utilities	TY CORRIDOR PHAS for QL B, C, & D subsu face utilities within th s exist within the proje	SE 2, BATON ROUGE, LA (UNKNOWN): Assistant Project Manager assist inface utility designating and surveying services at the Baton Rouge Metropolit e designated limits. As part of Q LB designating, 4-way sweeps of the area ect area.	ting in the an Airport. were also						
01/23	- 03/25	LADOTD J manageme subsurface project to	IMMIE DAVIS BRIDGE (LA 511 ent of field crews and technicians e utility designating/ locating, titl replace the Jimmy Davis Bridge a) DESIGN-BUILD, BO s for Static GPS contro e take-offs, legal descu cross the Red River as	SSIER & CADDO PARISHES, LA (H.001779): Assistant Project Manager assist I surveys, topographic surveys, property surveys, surveys in support of QL A, ription preparation, and preliminary and final right-of-way mapping for the d a sub-consultant to James Construction.	sting in the B, C, and D esign-build						
07/23	- 03/25	LADOTD I surveys, to preliminar	IJA OFF-SYSTEM BRIDGE PROG ppographic surveys, property surv y and final right-of-way mapping	RAM, DISTRICT 62 (4 reys, surveys in suppor in support of bridge re	400025041): Project Manager managing field crews and technicians for Static ('t of QL C & D subsurface utility services, title take-offs, legal description prepa eplacements.	GPS control ration, and						
09/22	- 03/25	LADOTD I in the mar D subsurfa replaceme	RURAL BRIDGE REPLACEMENT nagement of field crews and tec ace utility services, title take-off ents including surveying all sub-su	INITIATIVE PHASE II, DISTRICTS 02, 03, 07, 61, & 62 (4400019338): Assistant Project Manager assisting hnicians for Static GPS control surveys, topographic surveys, property surveys, surveys in support of QL C & s, legal description preparations, and preliminary and final right-of-way mapping for 21 bridge and culvert urface drainage structures as a sub-consultant to Waggoner.								
09/22	2 – 03/25	CENTERPO managemo surveys in drawings a Lafayette t	OINT SURVEYING & SUE SERV ent of field crews and techniciar support of QL B, C, & D subsurfac and plats for maintenance and co to Shreveport, and along the Nor	ICES, VARIOUS PARIS ns for topographic sur e utility designating, ti postruction projects. To thshore of Lake Pontch	SHES, LA (VARIOUS AGENCY PROJ. NOS.): Assistant Project Manager assistiveys, property surveying services, QL B, C, & D subsurface utility designating the research, title take-offs, boundary and right-of-way calculations, and review of date, NTBA has worked on over 100 separate projects stretching from Lake nartrain.	sting in the Ig services, ws of CADD Charles to						
10/22	10/22 – 05/24 LCG STREETSCAPE IMPROVEMENTS, LAFAYETTE PARISH, LA (UNKNOWN): Assistant Project Manager directed field crews and technicians to boundary surveying services, surveys in support of QLD subsurface utility research, and right-of-way mapping in support of design services.											
06/18	8–08/18	LADOTD I for topogra	-10: Williams Blvd. to Veterans B aphic surveying services and surveying	lvd., Jefferson Parish, I veys in support of QL A	/d., Jefferson Parish, LA (H.003074.5 & H.009087.5) QC Surveyor reviewed field data, processing, and draftin eys in support of QL A, B, C, and D subsurface utility designating/ locating as a sub-consultant to GEC, Inc.							
04/18 - 06/18 LADOTD LA 675 & LA 87 IMPROVEMENTS IN NEW IBERIA, IBERIA PARISH, LA (4400002562 & 4400006814): QC Surveyor rev 04/18 - 06/18 processing, and drafting for topographic surveying services and surveys in support of QL A, B, C, and D subsurface utility designating/ consultant to Stanley Consultants, Inc.												

FIRM EMPLOY	ED BY	Eustis Engineering L.L.C.									
	Gwendoly	yn P. Sanders, P.E.		YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	32						
TITLE	President			YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0						
DEGREE(S) / YE	EARS / SPEC	IALIZATION	B.S. / 1990 / Civil Eng	ineering; M.S. / 1992 / Engineering							
ACTIVE REGIST	TRATION NU	IMBER / STATE / EXPIRATION DATE	27104 / Louisiana / 09-30-2025								
YEAR REGISTEI	RED 199	DISCIPLINE	Civil Engineer								
CONTRACT RO	DLE(S) / BRIE	F DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Geotechnical								
EXPERIENCE D (MM/YY-MM/	DATES /YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO T DATES SHOULD COVER THE YEARS OF EXPERIENCE	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).								
32 years of e	experience	As President, Mrs. Sanders will be responsi QA review of preliminary concepts to revis she can also speak to permitting requirem	ble for the overall serv e the existing design to ents associated with	ices provided by Eustis Engineering and provide senior level review. She can p o meet current AASHTO/DOTD standards. Given her prior involvement with t he potential redesign . She has over 10 years of roadway and bridge design o	rovide QC/ t his project experience						
08/07-0	09/16	STATE OF LOUISIANA, PETERS ROAD, JEFFERSON AND PLAQUEMINES PARISH the geotechnical exploration scopes for th values, settlement, and construction consid excavations, dewatering and pressure relie and participated in the supplemental analy	PHASES I THROUGH ES, LOUISIANA (1992) ese projects. She perf lerations for arch pipes of, pavement recomment reses to address fill place	III, BRIDGE OVER GULF INTRACOASTAL WATERWAY AND BAYOU B 22, 20604, 21750.0002, 21827.00, .01): Mrs. Sanders participated in the deve formed or reviewed engineering analyses including recommendations regard and box culverts; settlement of the roadway; preload operations; lateral earth endations; and estimates of pile capacities. She also attended meetings with ement near existing T-walls and potential seepage due to pile driving.	ARATARIA, lopment of ing bearing pressures; the USACE						
03/20 - Oi	Ingoing	LADOTD - I-10 AND I-12 COLLEGE DRIVE this project included undisturbed borings, in over 300 hours on this project to perfor progress meetings both with the design ter	auger borings, and cone penetration tests and associated laboratory testing. As Principal, Ms. Sanders has put rm senior level QC/QA review associated with the design and construction services. She participates in weekly am and with the owner representatives.								
01/21 - O	ngoing	LADOTD - BAYOU BARATARIA BRIDGE R of the Bayou Barataria Bridge. Eustis Engi followed AASHTO LRFD and LaDOTD design settlement, ground settlement, settlement assisted in the project scope development the QC/QA requirements.	EPLACEMENT, JEFFE neering obtained relevent requirements and inc surcharge/remediation for the design services	RSON PARISH, LOUISIANA (24515.0003): The goal of this project is a full reveal permits and drilled 24 borings over water, marsh, and land. Geotechnic lude vertical and lateral pile analyses, pile scour capacity, lateral load analyses on, retaining wall recommendations, slope stability, and pavement design. Notes a slop providing independent reviews for selected contractor submittal statements.	placement al analyses , pile group As. Sanders s as part of						
03/11 – 0	08/16	STATE OF LOUISIANA - WISNER BOULEV with several phases of the Wisner Bouleva feet in depth) for the proposed widening ultimate compressive pile load capacities is existing structure. A thirteenth boring was geotechnical engineering services for the V replacement was updated to follow AASHT construction. Our services included the pe static load tests performed by others. We and recommendations for job pile installate driving criteria when appropriate. Ms. San	ARD OVERPASS, NEW rd Overpass project. I of the existing bridge being computed for all added to the project i Visner Boulevard Over O LRFD requirements, erformance of dynamic issued a comprehens ions. Once job pile inst ders served as the pro	V ORLEANS, LOUISIANA (21349, 21966, 22637, 22972): Eustis Engineering winitial involvement began in 2011 with the performance of twelve soil boring: under State Project No. H.004732.5. These design parameters were used ternate pile sizes using an allowable stress design to match the design approximately to address LaDOTD comments. In 2014, Eustis Engineering performed poss, this time under S.P. No. H.006196 for a new bridge. The design report for not ASD. As the geotechnical design engineer of record, we also provided sup c pile tests (DPTs) on the indicator piles and test piles. Eustis Engineering wit ive test pile program report to provide interpretations of the static and dyna tallation began, we reviewed production pile driving records and provided charging the manager for several phases of the project and authored the design report of the static and authored the design report for the static and provide the design report for the manager for several phases of the project and authored the design report for the static and the project and authored the design report for provide interpretations for the static and dyna tallation began, we reviewed production pile driving records and provided charging the project and authored the design report for provide interpretations for the static and the project and authored the design report for provide interpretations for the design report for provide the des	as involved (each 100 co estimate ach for the additional the bridge port during messed the mic testing inges in the rts.						

FIRM EMPL	OYED BY	Eustis Engineering L.L.C.
NAME	Gwendol	yn P. Sanders, P.E. Continued Resume
02/05	- 12/14	LADOTD - HUEY P. LONG BRIDGE WIDENING, WEST BANK AND EAST BANK APPROACHES AND MAIN BRIDGE DECKING WIDENING (18771, 19483, 20262): In 2005, Eustis Engineering performed the geotechnical engineering analyses with Modjeski & Masters, Inc. associated with the design of the bridge approaches, Phase I of the bridge widening project. The basis of these analyses was soil borings conducted earlier by Eustis Engineering through an IDIQ with LaDOTD. In 2006 and 2007, Eustis Engineering provided support to Modjeski & Masters and Louisiana TIMED Managers during railroad modifications completed as Phase II of the project. Using the results of static and dynamic load tests in addition to the results of our previous investigations, Eustis Engineering provided recommended pile order lengths for piles on the east and west banks to be installed for Phase II. Beginning in June 2008, Eustis Engineering began providing support services during Phase IV of the widening project. Additional design services included the evaluation of drilled shafts to support the bridge end bents. Eustis Engineering participated in progress meetings and partnering meetings, periodic site visits, and other requested services during construction of the final project phase. In addition to her role as project manager during the design phase and publishing reports and letters of our teams' findings and recommendations, Ms. Sanders was also embedded within the construction phase services. She reviewed contractor submittals including soil borings performed at each pile bent to verify design assumptions. She also witnessed the drilled shaft excavations and performed the base inspection and acceptance for these features. Ms. Sanders also reviewed the pile installation records and addressed the U.S. Army Corps of Engineers concerns of seepage within pile cap excavations during high river events.

FIRM EMPLOYED BY	Eustis Engineering L.L.C.									
NAME Matthe	w K. Morales, P.E.	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER 16								
TITLE Project	Manager	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	0							
DEGREE(S) / YEARS / SF	ECIALIZATION	B.S. / 2008 / Civil Engineering								
ACTIVE REGISTRATION	NUMBER / STATE / EXPIRATION DATE	38211 / Louisiana / 09-30-2025								
YEAR REGISTERED	013 DISCIPLINE	Civil Engineer								
CONTRACT ROLE(S) / B	RIEF DESCRIPTION OF RESPONSIBILITIES	Role on this Project: Geotechnical								
EXPERIENCE DATES (MM/YY–MM/YY)	EXPERIENCE AND QUALIFICATIONS RELEVANT TO DATES SHOULD COVER THE YEARS OF EXPERIENC	HE PROPOSED CONTRACT; I.E., "DESIGNED DRAINAGE", "DESIGNED GIRDERS", "DESIGNED INTERSECTION", ETC. EXPERIENCE SPECIFIED IN THE APPLICABLE MPR(S).								
16 years of experienc	Mr. Morales routinely performs design and projects, federal projects, and industrial cl registered professional engineer in the Sta structures and including the testing and a	alyses and reviews the geotechnical aspects of plans and specifications for local/municipal and state g lients. He is familiar with regulations, policies, procedures, and standards for these various stakehold ate of Louisiana with over ten years of geotechnical engineering experience involving Louisiana soils cceptance of construction materials on LaDOTD Projects and similar projects.	overnment ers. He is a and bridge							
03/20 - Ongoing	LADOTD, I-10 AND I-12 COLLEGE DRIV for this project included undisturbed bor Atterberg limits tests, hydrometer analyse features. Mr. Morales is the geotechnical analyses, retaining wall design, embankm the results of the bi-directional load test estimates, and reviewed installation logs design work for the project features in a and test results for the subgrade layer and	FLYOVER RAMP DESIGN-BUILD PROJECT, EAST BATON ROUGE PARISH, LOUISIANA (B0646): Services ngs, auger borings, and cone penetration tests. Eustis Engineering also provided laboratory testing including , and one-dimensional consolidation tests. Design services are being provided for seven different major project lesign engineer for all project features, which include driven pile and drill shaft foundation design, slope stability ent evaluations, roadway pavement design, and developing load test programs. Eustis Engineering evaluated coefformed on a drilled shaft, performed dynamic pile testing with signal matching to verify pile load capacity of the production shafts and piles. Mr. Morales' responsibilities on this project include performing engineering imely manner, allowing construction operations to progress with minimal delays. He has reviewed submittal pavement base aggregates.								
01/21 - Ongoing	LADOTD - BAYOU BARATARIA BRIDGE I of the Bayou Barataria Bridge. Eustis Eng Geotechnical design analyses include ver surcharge/remediation, retaining wall red Equation Analysis of Piles (WEAP) driveabi been responsible for performing internal r for this project. He is also leading the EDO	REPLACEMENT, JEFFERSON PARISH, LOUISIANA (24515.0003): The goal of this project is a full replacement gineering obtained relevant permits and land access, and drilled 24 borings over water, marsh, and pavement rtical and lateral pile capacity with and without scour, pile group settlement, ground settlement, settleme commendations, slope stability, and pavement design. Engineering during construction (EDC) includes Wav ility, dynamic pile testing with signal matching, and development of a vibration monitoring plan. Mr. Morales h reviews of the engineering analyses, the geotechnical data report, and the geotechnical design report complete C efforts.								
06/22 – 01/24	LADOTD – I-10/CITY PARK BRIDGE REPT crane trestle piles for the I-10/City Park B was furnished Kiewit's design memorandu authorization, Eustis Engineering was requ analyses included development of axial p performed by Kiewit. Eustis Engineering (CAPWAP) analysis. As Project Manager, M the DPT portion of the project.	LACEMENT (24821.0001): Eustis Engineering performed a geotechnical peer review for the proposed City P Bridge Replacement project in Baton Rouge, Louisiana. In order to perform the peer review, Eustis Engineer um which outlined the design assumptions associated with the trestle bridge design performed by Kiewit. At uested to perform independent geotechnical engineering analyses as part of this review. The limited geotechn pile load capacity curves and lateral load analyses of the proposed pile groups to compare with the analy also performed dynamic pile tests (DPTs) on five job piles for the project including signal matching verificat Mr. Morales spent approximately 70 hours performing analyses for this review and continuing leadership throu								
11/23 - Ongoing	LADOTD – LA HIGHWAY 415 TO ESSEN Washington Street to Acadian Thruway, Ro testing for DOTD's CE&I on a portion of th concrete are being delivered to our labora	I LANE ON I-10 AND I-12, PHASE I: West of Washington Street to Essen Lane, Phase I, Segment C bute I-10, West and East Baton Rouge Parish, Louisiana (B0771): Eustis Engineering is providing Quality is CMAR project. Concrete cylinders molded in the field by the construction inspectors on the self-co atory for cutting, capping and compressive strength testing. Classification and compaction testing ar	11: West of Assurance nsolidating re also							

FIRM EMPL	OYED BY	Eustis Engineering L.L.C.
NAME	Matthew	V K. Morales, P.E. Continued Resume
		being performed in our laboratory on proposed backfill materials. Classification testing on sand backfill includes sieve testing to develop a particle size distribution curve. Compaction testing in the laboratory on sand backfill followed TR 418 (Method A). Mr. Morales has provided quality checks on the testing and reporting operations for this project.

17. Firm Experience

FIRM NAME	G.E.C., Inc.	G.E.C., Inc.			DISCIPLINE(S)*			Road, Bridge				**
PROJECT NAME	US 71/165 Fort Buh	S 71/165 Fort Buhlow Bridge and Approaches							FIRM RESPONSIBILITY (PRIME OR S			Prime
PROJECT NUMBER	TNUMBER 700-28-0004 OWNER'S NAME LADOTD											
PROJECT LOCATION	Alexandria/Pinevill		OWNER'S PROJECT N			'S PROJECT MANA	GER .	loechim Umeoz	ulu, PE			
OWNER'S ADDRES	S, PHONE, EMAIL	1201 Capital Acc	ess Road, Baton R	ouge, LA 7080	04, (225) 379	9-1386	, umeoz	ulu@la.gov				
SERVICES COMME	NCED BY THIS FIRM (MM/Y	09/95	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)						\$ 9,	400		
SERVICES COMPLE	TED BY THIS FIRM (MM/Y	Y)	06/13	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)						\$ 9,	\$ 9,000	

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

For this Red River Bridge replacement project, GEC completed feasibility, line and grade, traffic studies, an environmental assessment (EA), and preliminary and final bridge and roadway plans.

GEC performed a bridge study which involved preliminary design of plans and sections for a new bridge spanning the Red River. Alternate designs utilizing precast, pre-stressed concrete girder spans, steel girder spans, and segmental concrete box girder spans were developed. Based on the bridge study and in conjunction with LADOTD, a bridge configuration for final design was chosen.

The **final bridge design consists of twin bridges**, approximately 3005 feet long, crossing the Red River in the northbound and southbound directions of US 71/165. The final design uses a combination of Type BT pre-stressed girder spans, simple steel plate girder spans, and three-span continuous steel plate girder units spanning the Red River. The **simple span steel girder bridge is 225 feet long**, has a girder web depth of 8 feet, and crosses an **existing levee**.

The actual Red River Crossing is accomplished with the three continuous steel spans of 300 feet, 400 feet, and 300 feet. In plan, girders transitioned from a parallel straight girder configuration to a curved splayed configuration. Girder web depths were set at approximately 12 feet. Specially designed rocker bearings help accommodate bridge movements. The main river supports consist of column bent caps founded on single massive continuous piers supported by an array of 188, 24" diameter steel pipe piles. The Red River spans provide a minimum navigational vertical clearance of 52 feet above the 2% flow line.

The **span across the KCS Railroad** is a simply-supported skewed span, 100 feet in length. The span provides a minimum vertical clearance of 23'-9" above the railroad track. The span also provides space for a 22'-0" wide future railroad access road.

In addition to preparing detailed construction documents for the Red River Bridge replacement project, GEC also provided construction support for the project. This support included responding to RFIs, shop drawing and bridge component submittal reviews, and assisting the Contractor with overcoming unexpected detrimental field conditions. Construction of the Red River Bridge project at Fort Buhlow was completed successfully in 2013.

Firm Members Involved: Cary Bourgeois, Keith Rebello, Varaprasad Venkata

▶ GEC designed the bridge over the KCS Railroad in Alexandria without impacting the railroad during construction.



^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	G.E.C., Inc.				DISCIPLINE(S	DISCIPLINE(S)* Roa		Road, Bridge			
PROJECT NAME	I-10 & I-12 College D					FIRM RES	PONSIBILITY (PRIME OR SUE	3?) Prime			
PROJECT NUMBER H.013897 OWNER'S NAME LADOTD											
PROJECT LOCATIO	N East Baton Rouge R	Parish, Louisiana				OW	VNER'S PROJECT MAN	AGER	Peggy Jo Paine, PE		
OWNER'S ADDRES	S, PHONE, EMAIL	1201 Capital Acc	cess Road, Baton F	Rouge, LA 7080	04, Peggy.pai	ine@la.go	ov, (225) 379-1065				
SERVICES COMME	NCED BY THIS FIRM (MM/Y	Y)	02/20	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)					ć	\$ 6,079	
SERVICES COMPLE	TED BY THIS FIRM (MM/Y	Y)	Present	COST OF CONSU	ILTANT SERVIC	ES PROVIDE	ED BY THIS FIRM (\$1,00	00'S)	Ś	\$ 4,025	

The BOH/GEC Team was selected to provide **road/bridge design**, **environmental**, **and engineering services** for this Design-Build contract. GEC's design reduced the footprint established by NEPA documentation. The Team's design **improves the flow of traffic and safety** by improving the I-10/I-12 merge through the elimination of lane changes that must occur when I-10 WB traffic exits at College Drive. Our design achieves this by realigning the two existing I-12 WB through lanes to more closely follow the I-12 EB existing alignment, completely replacing the I-10 WB overpass Bridge with a new structure at a bridge width which will accommodate both the I-10 WB through lanes and the I-10 WB College exit ramp, and utilizing the existing I-12 WB pavement for the I-12 WB college Drive exit ramp. Improvements to the I-12/I-10 exit lane with College Drive intersection are also included.

GEC provided environmental compliance plans and permitting services, including adhering to and updating NEPA Documentation, environmental mitigation, wetland mitigation, SWPPP, tree impact plan, and permit modification services. GEC also revised the existing network study and conceptual alternatives analysis (line and grade alternatives), ROW acquisition plan, hurricane preparedness and evacuation plan, safety plans, and the Interchange Modification Report (IMR). GEC also provided public/stakeholder outreach and conducted public meetings.

GEC is the **task lead for road and bridge design**, in addition to design of the new I-10 westbound bridge and rehabilitation plans for the I-12 to I-10 Flyover and Essen Lane overpass. GEC also designed the widening of the I-10 westbound bridge over Ward Creek. This bridge structure is comprised of three 55' long simple spans composed of rolled steel girders with a cast in place concrete deck. GEC's design services include the rehabilitation of the existing bridge and replacement of the deck joints. The project required that 5 lanes of traffic be maintained at all

▶ GEC implemented unique road and bridge solutions that limit the number of potential impacts. GEC introduced a new design that was unforeseen in previous studies and design which simplified the traffic movement through a reduced project footprint versus previous conceptual alternatives.



times though this heavily traveled corridor. GEC staff developed the bridge plans to construct the widening and rehabilitation in multiple phases in order to maintain the 5 lanes of traffic. GEC's design of the bridge also accommodates a sound barrier. GEC provided the roadway construction plans for this project and was responsible for the geometric layout for the entire project, ensuring conformance to DOTD and AASHTO standards. GEC provided hydraulic design which included the design of several subsurface drainage systems and cross drains. GEC also performed hydraulic channel analysis to ensure the project did not negatively impact the surrounding areas. An opinion of probable cost for the project were also calculated by the GEC team and provided to the contractor. In addition to bridge and roadway design, GEC completed a photometric report and lighting plans for the design-build project. The lighting design consists of both high mast and low mast lighting. This requires the review of engineering shop drawings and equipment submittals from the electrical contractor. This project also includes modifications of the I-10/I-12 exit ramp intersection with College Drive. **Construction of this project is nearing completion**.

Firm Members Involved: Cary Bourgeois, Sherri LeBas, Jerome Lohmann, Christopher Nipper, Keith Rebello, Logan Michel, Rachel Breaux, Varaprasad Venkata

^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	G.E.C., Inc.	G.E.C., Inc.			DISCIPLINE(S)*			Road				**	
PROJECT NAME	I-10: LA 415 to Esser	n Lane on I-10 a						FIRM RES	PONSIBILITY (PRIME	DR SUB?)	Sub		
PROJECT NUMBER	H.004100.5		OWNER'S NAM	ΙE	LADOTD (Huval Prime)								
PROJECT LOCATION	West and East Bate	on Rouge Parishes	s, Louisiana			OWNER'S PROJECT MANAGER Nicholas (Nicholas Olivier	ier		
OWNER'S ADDRESS	, PHONE, EMAIL	1201 Capital Acc	cess Road, Baton F	Rouge, LA 7080	04, Nicholas.	olivier@la	.gov	/ 225-379-113	33				
SERVICES COMMENCED BY THIS FIRM (MM/YY) 09/20				TOTAL CONSULTANT CONTRACT COST (\$1,000'S)					\$ 4,406				
SERVICES COMPLET	ED BY THIS FIRM (MM/Y	Present	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)					\$4,	406				

As a sub-consultant to Huval, GEC is providing project management, **engineering and related design services to develop the construction plans for the Construction Management at Risk (CMAR) project for the improvements to I-10, including frontage roads**, through the urban area of Baton Rouge, LA. LADOTD is in the process of widening I-10 from the LA 415 interchange (west side of Mississippi River) to just east of the I-10/I-12 split (east side of the Mississippi River). CMAR Phase 1

▶ In addition to design, GEC manages the crucial effort for NEPA re-evaluations.

of the Project extends from W. of Washington Street to just east of the I-10/I-12 interchange (east side of the Mississippi River). CMAR Phase 2 is the remainder of the corridor from LA 415 to just W. of Washington Street (Lorri Burgess Avenue) (work in this area will exclude the existing Mississippi River Bridge). GEC assisted with the design and development of the Roadway Corridor Preservation (RCP) Plans for Phase 1. GEC is currently providing project management and design services for CMAR Segment 1.

GEC is assisting with the project management of this complex project. As the project's primary management partner, GEC is responsible for overseeing a wide range of critical project elements including the development of the Design Quality Manual that outlines processes to be followed during the design phase. Additionally, GEC has developed a detailed Project Management Plan, outlining the strategies and processes that guide the project's progression from start to finish. Recognizing the financial complexities inherent in a project of this scale, GEC has also led the creation of the Initial Financial Plan and continues to provide updates. **GEC leads the crucial effort for NEPA re-evaluations** which includes documentation, stakeholder meetings, public meetings (logistics and development of information), and the development and coordination of content from other team members and LADOTD into the comprehensive document for submittal to FHWA. In addition, GEC provides oversight for compliance with the mitigations and commitments included in the NEPA document and the coordination and development of information and graphics required for securing the appropriate permits. Recognizing the importance of transparent and proactive public engagement, GEC is also responsible for overseeing the project's public outreach efforts during design. GEC has developed informative PowerPoint presentations and content for the project website and media communications. These materials are then shared with the public and key stakeholders through a variety of forums, including individual meetings, conferences, public gatherings, and other engagement platforms. Finally, GEC's commitment to document control allows for maintaining all meeting summaries, decision logs, and other critical records therefore, providing a comprehensive repository for tracking discussions and decisions made throughout the project's lifecycle.

GEC's structures and bridge teams are responsible for **design of all retaining walls for the project** which includes cast-in-place concrete walls and mechanically stabilized earth (MSE) walls and noisewalls at locations identified in the environmental document. GEC designed a two-span truss spanning a future widened I-10 near Dalrymple Drive to support multiple Dynamic Message Signs as part of the ITS portion of this project. **GEC is also providing the engineering design for the new bridge at the westbound exit at the Washington Street (Lorri Burgess Avenue) off ramp**. GEC electrical staff is designing the roadway lighting for the I-10 improvements and the aesthetic lighting which includes lighting of the new City Park Lake Bridge. This work included coordinating with the designer of the bridge for strategically placed blockouts in the bridge structure to accommodate the enhancement lighting equipment as well as the placement of electrical conduit in order to provide electrical equipment and conduit that would blend in with or be hidden within the structure. GEC staff is also developing the roadway and aesthetic lighting for the main cross streets that traverse under I-10 such as Louise Street, East Washington Street and others, which includes 4 new roundabouts that are being design and constructed in CMAR Segment 1. Additionally, GEC is developing the lighting plans for the multi-use path that will traverse under I-10 from the I-110/I-10 Interchange to Dalrymple Drive. Since this is a CMAR project, the GEC team has engaged in numerous TF meetings discussing design, constructability issues, and ideas for reducing cost and/or schedule. The GEC team is working collaboratively with the other design team members and contractor. The team has been nimble throughout the CMAR process to assist and accommodate vetting ideas, modify designs, and develop strategies to deliver this complex transformative project on schedule for the citizens that live within the corridor, use the interstate for travel to and from work and

Firm Members Involved: Sherri LeBas, Cary Bourgeois, Keith Rebello, Varaprasad Venkata, Christopher Nipper, Thomas Coerver Jr., Mickey Prattini Jr., Thomas Swanson, Hector Zuniga, Rachel Breaux, Nicholas Montegut, Logan Michel, Bliss Bernard, Carlos Perez, Jonathan Puls

FIRM NAME	G.E.C., Inc.	G.E.C., Inc.			DISCIPLINE(S)*			Road, Bridge			**	
PROJECT NAME	I-10 Widening, Willi	ams Blvd. to Ve	terans Blvd.						FIRM RESE	PONSIBILITY (PRIME OR S	UB?)	Prime
PROJECT NUMBER	H.003074	OWNER'S NAM	IE	LADOTD								
PROJECT LOCATION	Jefferson Parish, Lo	ouisiana			OWNER'S PROJECT MANAGER Timothy Nick				Timothy Nickel			
OWNER'S ADDRESS	, PHONE, EMAIL	1201 Capital Acc	cess Road, Baton R	Rouge, LA 7080	04, (225) 379	9-1110, ⁻	Timotł	ny.nickel@la.go	v			
SERVICES COMMEN	ICED BY THIS FIRM (MM/Y	07/12	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)						\$ 7,981			
SERVICES COMPLET	ED BY THIS FIRM (MM/Y	Y)	Ongoing	COST OF CONSU	JLTANT SERVIC	ES PROVI	DED BY	THIS FIRM (\$1,00	D'S)		\$ 5,088	

GEC is currently **designing the roadway widening, new bridges, and interchanges** of I-10 between Williams Boulevard and Veterans Boulevard in Jefferson Parish. **All design is in accordance with the latest AASHTO LRFD Bridge Design Specifications, the LADOTD Bridge Design and Evaluation Manual (BDEM), and all LADOTD Bridge Design Technical Memoranda.** Final design plans are 95% complete and all comments have been addressed. The total project length is 2.58 miles and consists of the construction of one 12' additional lane with a 10' shoulder inside along the I-10 eastbound and westbound roadways. Included in the project is the **replacement and widening of the bridges** over Canal No. 3 and Veterans Blvd. Sound Barriers, both ground-mounted and structure-mounted on the north side of I-10, and the design of a diamond interchange (WB) and partial cloverleaf

▶ GEC completed final bridge plans and is currently completing final roadway plans for this highly congested urban freeway, which will feature a phased sequence of construction to maintain a minimum of three lanes of traffic during construction in peak travel hours for Jefferson Parish commuters.

interchange (EB). GEC provided feasibility studies, road design, bridge design, electrical design, and environmental analyses for this project. The bridges over Canal No. 3 and Veterans Blvd. will be replaced with a combination of **concrete slab spans**, **PPC girder spans**, and **steel plate girder spans**. Design has also been performed on the replacement of portions of the concrete lining of Canal No. 3 that will be impacted by the new bridge design. The new GEC-designed bridges over Canal No. 3 and Veterans Blvd. will be constructed in 3 phases to maintain 3 lanes of traffic on I-10 in each direction at all times. This project included a level 2 Transportation Management Plan (TMP).

PHASE I: a section of the new westbound bridge will be built in the existing median and designed to carry 3 lanes of traffic. The eastbound traffic will be diverted from the existing eastbound bridge to the new Phase I bridge in the median.

PHASE II: the existing eastbound bridge will be demolished and replaced with a new bridge designed to carry 4 lanes of traffic and one auxiliary lane. Once completed, the eastbound traffic will be re-routed from the Phase I bridge onto the new eastbound bridge. The westbound traffic will be diverted from the existing westbound bridge onto the Phase I bridge in the median.

PHASE III: the existing westbound bridge will be demolished and the second half of the new westbound bridge will be constructed. Once completed, the entire new westbound bridge will be opened to traffic and will be designed to carry 4 lanes of traffic. Sound barriers are included on the north side of the I-10 westbound bridges.

GEC performed an initial extensive load rating of the existing bridges on this stretch of I-10, resulting in LADOTD making an informed decision to replace the bridges. GEC submitted final plans for the replacement bridges and ramps for this highly congested 2.58 mile urban interstate project and completed a detailed as-designed **bridge rating for this project in accordance with the AASHTO Manual for Bridge Evaluation and the LADOTD BDEM.**

GEC's lighting design department has been tasked with performing lighting design on the interchanges within the project limits - namely, Williams Blvd., Power Blvd., and Veterans Blvd. The lighting design included photometric analyses of the existing lighting system with the proposed roadway geometry and analyzes the design issues found during GEC's review.

Firm Members Involved: Cary Bourgeois, Jerome Lohmann, Keith Rebello, Christopher Nipper, Varaprasad Venkata, Mickey Prattini Jr., Thomas Coerver Jr., Michael Chiasson

^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	G.E.C., Inc.				DISCIPLINE(S	NE(S)* Road						**
PROJECT NAME	Willow Street Area	Improvements							FIRM RESI	PONSIBILITY (PRIME OR SU	IB?)	Sub
PROJECT NUMBER		OWNER'S NAM	IE	LADOTD (Prime: Stantec)								
PROJECT LOCATION Lafayette, Louisiaan						OWNER'S PROJECT MANAGER Joseph Cain			Joseph Cains			
OWNER'S ADDRESS	, PHONE, EMAIL	1200 Brickyard I	n Suite 400, Bato	n Rouge, LA 70	802, Joseph	.cains@	stante	ec.com				
SERVICES COMMENCED BY THIS FIRM (MM/YY)			02/24	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)					\$ 361	L		
SERVICES COMPLET	ED BY THIS FIRM (MM/Y	Present	COST OF CONSU	ONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)						\$ 361	L	

GEC is providing **preliminary and final construction plans in accordance with AASHTO Standards and the LADOTD Road Design Manual** for improvements to the LA 182 Interchange at Willow Street in Lafayette, LA. This project is one portion of the overall I-49 Connector corridor project under which LA 182 will be upgraded to I-49. I-49 will be extended southward from I-10, through the Evangeline Throughway in Lafayette, past the Kaliste Saloom Road interchange at the Lafayette Regional Airport.

GEC's scope includes developing preliminary and final plans to produce bid documents for the **redesign of two frontage roads**, the **extension and redesign of a local street**, the **widening and reconfiguration** of Willow Street at the LA 182 interchange, and the **temporary reconfiguration** of LA 182 to facilitate the construction of the future I-49 extension. Included with the redesigned roadways are new sidewalks for pedestrians and shared-use paths for pedestrians and bicyclists.

GEC is also providing the **hydraulic design** in accordance with the current edition of the LADOTD Hydraulics Manual. New subsurface drainage will be provided where curb and gutter is proposed and will direct the runoff to existing concrete canal outfalls within the project limits.

Firm Members Involved: Cary Bourgeois, Jerome Lohmann, Christopher Nipper

▶ To faciliate design and construction of the I-49 Connector corridor project, GEC is redesigning two frontage roads and extending a local street, including new sidewalks for pedestrians and shared use paths.



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FIRM NAME	Forte and Tabl	ada, Inc.			DISCIPLINE(S	5)*		Survey			**
PROJECT NAME	Belle Chasse Bridge	and Tunnel Rep	lacement						FIRM RES	PONSIBILITY (PRIME OR SUE	Prime
PROJECT NUMBER	H.004791.5			OWNER'S NAM	E	LADC	DTD				
PROJECT LOCATION	Plaquemines Paris	h, Louisiana					OWNER	S PROJECT MANA	GER	Stanley Ard	
OWNER'S ADDRESS,	PHONE, EMAIL	cess Road, Baton F	Rouge, LA 7080)2, 225-379-	1292,	Stanley	.Ard@la.gov				
SERVICES COMMEN	ced by this firm (MM/Y	Y)	05/17	TOTAL CONSULT	ANT CONTRAC	T COST	(\$1,000'	S)		(\$401.7
SERVICES COMPLET	ED BY THIS FIRM (MM/Y	Y)	10/18	COST OF CONSU	ILTANT SERVIC	ES PRO	VIDED BY	′ THIS FIRM (\$1,00	0'S)	(\$249.6

The primary challenge for this project was to complete the topographic survey, while not shutting down travel on the bridge nor tunnel. In order to perform a traditional topographic survey, the feature being measured must be in physical reach of the equipment operator. Forte and Tablada was able to overcome this challenge through the use of remote sensing technology. Remote sense was used in the form of LiDAR for the bridge and overpass, and multi-beam sonar for the water bottom and top of tunnel. A robot was fabricated by Forte and Tablada staff to ride the bridge rail with the LiDAR scanner in order to avoid lane closures and improve the safety of equipment operators. This project displays Forte and Tablada's ability to use advanced technology such as lidar scanning and multibeam hydrographic equipment to conduct topographic surveys on bridge projects for LA DOTD.

Firm Members Involved: Joey Coco, P.E., Jerry Middleton, Jr., P.L.S., Ross Wilson, P.L.S.



FIRM NAME	Forte and Tabla	ada, Inc.			DISCIPLINE(S)*	Survey	, Road				**
PROJECT NAME	ook Road Improve	ments							FIRM RESI	PONSIBILITY (PRIME OF	SUB?)	Prime
PROJECT NUMBER	H.012308			OWNER'S NAM	1E	Livingsto	on Parish Co	uncil				
PROJECT LOCATION	Livingston Parish, L	ivingston Parish, Louisiana OWNER'S PROJECT MANAGER Layton Ricks										
OWNER'S ADDRESS, P	HONE, EMAIL	P.O. Box 427, Liv	ringston, LA 70754	, 225-686-226	6, lricks@lp	gov.com						
SERVICES COMMENCE	ED BY THIS FIRM (MM/Y)	()	01/12	TOTAL CONSULT	ANT CONTRAC	T COST (\$1,	,000'S)				\$2,8	33
SERVICES COMPLETER	D BY THIS FIRM (MM/Y	()	Ongoing	COST OF CONSU	JLTANT SERVIC	ES PROVIDE	ED BY THIS FIR	M (\$1,00	0'S)		\$2,8	33

Forte and Tablada, Inc. performed comprehensive engineering and surveying services for this project that designed improvements to an existing section of two-lane roadway and an unimproved area with the construction of a four (4) lane boulevard section from LA Hwy 16 (Pete's Hwy) to LA Hwy 1026 (Juban Road), along with several bridges. The project typical section included a grass median (including turn lanes) with lighting and sidewalks on both sides of the road. Due to other projects and anticipated growth in the project area, this project also includes a multi-lane roundabout at the intersection of Cook Road and Pete's Hwy. This project included 2 180' long reinforced concrete span bridges. A HEC-RAS hydraulic model was created to evaluate the bridge's performance. A no-rise certificate was also required for this project. The structures were analyzed in accordance with LA DOTD Hydraulics Manual. Services provided for this project include project management, a Line and Grade Study, Topographic Surveying, Environmental Services, Property Surveying, Right-of-Way Mapping, Title Take Offs, Design Engineering, Construction Engineering, and Resident Project Representative Services for the proposed construction. The engineering design was completed January 2022, and construction phase is currently underway.

Firm Members Involved: Chad Bacas, P.E., Ross Wilson, P.L.S., Allison Schilling, P.E., Kresten Brown, P.E., Mark Kessler, Joffrey Easley, P.E., Tyler Branch, P.E.



^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	Forte and Tabl	ada, Inc.			DISCIPLINE(S	5)*		Survey, Road				**
PROJECT NAME	Nicholson Dr. at Brig	ghtside Lane/W	est Lee Drive						FIRM RESI	PONSIBILITY (PRIME OR SU	IB?) Pr	rime
PROJECT NUMBER	Nos. 700-17-0177,	41-01-0036, 742	-17-0130	OWNER'S NAM	IE	City o	of B.R. D	epartment of F	ublic Wo	ks		
PROJECT LOCATION	East Baton Rouge	Parish, Louisiana		OWNER'S PROJECT MANAGER Bryan Harmon								
OWNER'S ADDRESS, PHONE, EMAIL P.O. Box 1471, Baton Rouge, LA 70821, 225-					3186, bharr	mon@	la.gov					
SERVICES COMME	NCED BY THIS FIRM (MM/Y	Y)	10/08	TOTAL CONSULT	ANT CONTRAC	ст созт	r (\$1,000'S	5)			\$804	
SERVICES COMPLE	TED BY THIS FIRM (MM/Y	Y)	04/20	COST OF CONSU	JLTANT SERVIC	ES PRO	VIDED BY	THIS FIRM (\$1,00	D'S)		\$804	

Forte and Tablada was responsible for Topographic Survey, Property Survey, and Preliminary and Final Design Plans for this intersection improvement project. The project entailed the development of preliminary and final plans to widen Nicholson Drive to provide northbound and southbound left-turn lanes, one through lane in each direction and one right turn lane in each direction. It would also require the existing City/Parish bicycle/pedestrian path to be relocated to fall within the railroad right-of-way and widen the railroad crossing on Brightside Lane to provide one westbound lane, one eastbound left turn lane, one eastbound through lane and an eastbound combination through/right turn lane to widen West Lee Drive to provide two eastbound lanes, a westbound left turn lane, a westbound right turn lane. The design would adjust the grade and construct a tangent crown on Nicholson Drive to reduce the problems caused by the difference in grade between Nicholson Drive and the Illinois Central Railroad, and to replace the existing traffic signal system with new signal equipment.

Firm Members Involved: Ann Schilling, P.E., Chad Bacas, P.E.



FIRM NAME	Eu	stis Enginee	ring L.L.C.			DISCIPLINE(S	5)*		Geotech				**
PROJECT NAME	Peters R	oad, Phase	s I, II, and III							FIRM RESP	PONSIBILITY (PRIME OR SUE	3?) Sub	
PROJECT NUMBER	2060	4,21750,2182	27	OWNER'S NAM	IE	LaDOT	D Through Burk-Kleinpeter Inc.						
PROJECT LOCATIO	N Plaqu	emines and .	lefferson Parishes	s, Louisiana	OWNER'S PROJECT MANAGER Rene Chopin					Rene Chopin			
OWNER'S ADDRES	SS, PHONE, E	MAIL	4176 Canal Stre	et, New Orleans, L	ouisiana 7011.	9, 504-486-5	5901, rc	hopin(@bkiusa.com				
SERVICES COMME	VICES COMMENCED BY THIS FIRM (MM/YY) 11/12 TOTAL CONSUL				SULTANT CONTRACT COST (\$1,000'S)				l	Jnknown	l		
SERVICES COMPLE	ETED BY THE	5 FIRM (MM/Y	Y)	09/16	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)				(\$504			

Eustis Engineering completed geotechnical explorations for Phases I, II, and III for the Peters Road Bridge project.

Phase I included the drilling of 34 undisturbed borings using a drill rig mounted on an all-terrain vehicle assisted by a bulldozer to evaluate the proposed roadway. In addition to site preparation and pavement recommendations, the geotechnical scope for Phase I included our evaluation of arch pipes and culverts. We provided material and compaction requirements for bedding along with allowable soil bearing values and settlement estimates, including preload operations to mitigate potential settlement.

Phase II of the Peters Road project encompassed the connector roadways to the Phase III project bridges spanning the Gulf Intracoastal Waterway (GIWW) and Bayou Barataria. Phase II also included two bridges spanning Bayou Barataria and three box culverts for roadways crossing Murphy Canal in Jefferson Parish. Eustis Engineering developed an exploration scope using a combination of soil borings and cone penetration tests (CPTs) for this project phase. Our geotechnical engineering analyses included allowable compressive and tensile load capacities for prestressed concrete piles; estimated total settlement and differential settlement due to structural loads and fill placement; settlement due to negative skin friction of pile foundations; stability analyses at the bridge crossing and box culvert transition areas; and general construction recommendations.

Phase III focused on the bridges to be constructed over the GIWW and Bayou Barataria and connecting Phase III with Phases I and II. We completed 13 undisturbed sample type soil test borings and 21 CPTs for Phase III. We provided estimates of ultimate pile load capacities of deep foundations to support the proposed bridge crossings at the GIWW and Bayou Barataria, and elevated roadways between these bridges. Eustis Engineering also provided supplemental analyses for Phases II and III to address permit review comments from the U.S. Army Corps of Engineers. For Phase II, we performed Settlement Induced Bending Moment analyses to evaluate the impact new roadway fill could have if placement proceeded at the protected side of an existing USACE flood protection T-wall. Eustis Engineering presented estimates of maximum bending moments in the T-wall foundation piles using the principle of superposition wherein soil displacements were estimated from conventional settlement and Finite Element Model analyses. For Phase III, we performed settlement seepage analyses to address potential seepage impacts of the proposed Intracoastal Waterway bridge foundations on the existing Algiers Canal levee. Our analyses were based on the USACE's blanket theory method and Lane's Weighted Creep Ratio computations. In total, Eustis Engineering provided more than 6,200 manhours on this project.

Firm Members Involved: Gwendolyn P. Sanders

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FIRM NAME	Arcadis				DISCIPLINE(S	5)*	Bridge, Road,	Traffic, Er	vironmental	**
PROJECT NAME	Chef Menteur Bridg	e and Approach	nes, Route US 90)				FIRM RESI	PONSIBILITY (PRIME OR SUB	Prime
PROJECT NUMBER	H.000263.2			OWNER'S NAM	1E	Louis	siana Department of Tra	ansportati	on and Development (L	ADOTD)
PROJECT LOCATIO	N Orleans Parish, Lo	uisiana					OWNER'S PROJECT MANA	GER	Nikki Leon / Irina Sorse	et
OWNER'S ADDRES	S, PHONE, EMAIL	1201 Capitol Ac	cess Road, Baton F	Rouge, LA 7080	02, 225 242	4514,	nikki.leon@la.gov (irina	a.sorset@	la.gov)	
SERVICES COMME	NCED BY THIS FIRM (MM/Y	Y)	08/11	TOTAL CONSULT	ANT CONTRAC	CT COST	Г (\$1,000'S)		Ş	51,118
SERVICES COMPLE	TED BY THIS FIRM (MM/Y	Y)	11/14	COST OF CONSU	JLTANT SERVIC	ES PRO	VIDED BY THIS FIRM (\$1,00	0'S)	\$	879

Firms Role: Bridge and roadway design, roundabout evaluation, complete streets analysis, bridge type / lifecycle cost assessment; typical sections, bridge and road line and grade type horizontal and vertical design services, local access connections, roadway approach design, alternatives development, visual imagery, USCG navigable waterway permit assessment, preliminary construction cost estimate based on LADOTD pay items and unit cost prices.

Arcadis was contracted by LADOTD to complete preliminary design layouts to replace the existing US 90 swing- span bridge over Chef Menteur Pass in Orleans Parish as part of an National Environmental Policy Act (NEPA) Environmental Assessment. Both movable - and fixed-span designs were considered along with three preliminary alignments. LADOTD Design Guidelines and EDSM's along with the LADOTD Road Design and Bridge Design Manuals were utilized.



Key Challenges - The challenges were to minimize impacts to abutting Venetian Isles subdivision, while also avoiding or minimizing effects to the Fort Macomb structure and state parkland, terrestrial and submerged archaeological sites, and the Bayou Sauvage National Wildlife Refuge. From an engineering perspective, the project site posed notable challenges. The Chef Menteur Pass experiences swift tidal flows that have resulted in substantial scour and increased potential for vessel collisions.

Project Approach - The approach identified the schedule's critical path, including a post-Katrina vessel height study update, a remote sensing of Chef Menteur Pass to identify submerged cultural resources and to ascertain bathometric data, and early coordination and approval of the design criteria to adequately address the mixed-use in the vicinity of the bridge. In accordance with the LADOTD Complete Streets Policy, this project queried and incorporated comments from New Orleans bicycle representatives, who recognize US 90 as the only bicycle route between New Orleans and the state line. Arcadis followed good access management principles to address local mobility needs. Private access connections (driveways) were minimized by providing interconnectivity and shared driveways among residential, commercial, and park properties. With nearly 10 stakeholder and agency meetings over the first two months of the contract, the team was aggressive with early outreach and continuous coordination with both agencies and the public.

Firm Members Involved: Akhil Chauhan



FIRM NAME	Arcadis				DISCIPLINE(S	5)*		Planning, Traf	fic		**
PROJECT NAME	DIQ for Safety Stud	ies – LA 3235 St	age 0 Safety Fea	asibility Stud	у				FIRM RESI	PONSIBILITY (PRIME OR SUI	3?) Prime
PROJECT NUMBER	H.010688.1	00000000000000000000000000000000000000				Louisia	ouisiana Department of Transportation and Developm				LADOTD)
PROJECT LOCATION	Lafourche Parish, L	e Parish, Louisiana				(OWNER'	S PROJECT MANAGER April Renard			
OWNER'S ADDRESS,	PHONE, EMAIL	1201 Capitol Ac	cess Road, Baton F	Rouge, LA 7080	02, 225 379	1919, ap	pril.ren	ard@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY) 10/13 TOTA			TOTAL CONSULTANT CONTRACT COST (\$1,000'S)				(\$473			
SERVICES COMPLETED BY THIS FIRM (MM/YY) 03/15 COST			COST OF CONSU	NSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S) \$31				\$315			

Firms Role: The Arcadis team performed a formal corridor/intersection and Stage 0 Safety Feasibility Study evaluation to enhance mobility and safety on the LA 3235 corridor.

LA 3235 is a high-speed corridor with heavy truck traffic, clustered commercial and residential land use, full access median openings, and a history of high crash severity. Several fatalities have occurred on the facility during the 3-year analysis period. The goal of the study was to identify safety countermeasures that seek to address safety deficiencies and improve the overall safety and mobility of the corridor.

Stage 0 Safety Feasibility Study: Arcadis conducted a Stage 0 feasibility study to evaluate the viability of safety improvement alternatives and countermeasures. The study involved traffic data collection and analysis, historical crash analysis, predictive safety methods, alternative development, cost estimates, public and stakeholder meetings, and Stage 0 checklists. Arcadis employed advanced Highway Safety Manual methodologies to evaluate the effectiveness of proposed alternatives in addressing crashes.

Alternative Development / Evaluation: Alternatives focused on the use of access management and innovative intersections to reduce conflict points and speed differentials that are contributing to crashes. Design features were developed in accordance with LADOTD minimum guidelines such as EDSM VI.3.1.6, "Installation of New Traffic Signals," IV.2.1.4, "Median Openings on Divided Multi-Lane Roadways," and DOTD's "Access Connections Policy." Preliminary design drawings were developed to evaluate feasibility of alternatives and identify potential right-of-way and environmental impacts. Safety benefits were estimated by conducting a predictive safety analysis using Safety Performance Functions and Crash Modification Factors.

Construction Cost Estimates: Construction cost estimates were generated for alternatives using LADOTD historical bid information and cost estimating tools. These estimates identified both construction and engineering costs as required in Stage 0 checklists.

Firm Members Involved: Akhil Chauhan, Ari Deitch, Justin Maderia, David Fulks



Figure: Proposed Access Management and Intersection



Figure: Implemented Continuous Green-T Intersection Concept at LA 3235 and LA 3162

FIRM NAME	Arcadis				DISCIPLINE(S	5)*		Road, Bridge				**
PROJECT NAME	IS 11 Intersection a	nd Corridor Im	provements / No	orfolk Southe	ern Railroa	d Over	rpass R	eplacement	FIRM RESI	PONSIBILITY (PRIME OR S	UB?)	Prime
PROJECT NUMBER	H.000688.2			OWNER'S NAM	E	Louisi	iana De	partment of Tra	ansportati	on and Development	(LADO)TD)
PROJECT LOCATION	St. Tammany Paris	h, Louisiana				OWNER	'S PROJECT MANAGER Nicholas Olivie					
OWNER'S ADDRESS,	PHONE, EMAIL	1201 Capitol Acc	cess Road Baton R	ouge, LA 70802	2 / T: 225 37	79 1133	3/ E: nic	holas.olivier@	la.gov			
SERVICES COMMENC	ED BY THIS FIRM (MM/Y	Y)	08/11	TOTAL CONSULT	ANT CONTRAC	CT COST	(\$1,000'S	5)			\$768	
SERVICES COMPLETE	D BY THIS FIRM (MM/Y	Y)	Ongoing	COST OF CONSU	ILTANT SERVIC	ES PROV	VIDED BY	THIS FIRM (\$1,00	0'S)		\$716	

Firm's Role: Roadway & bridge geometric design; Engineer in responsible charge; Railroad geometric design & clearance checks; 3D terrain modeling; Line & grade document development; Construction cost estimate; Independent technical & quality reviews

LADOTD contracted Arcadis and its sub-consultants to prepare an Environmental Assessment for the replacement of an historic railroad overpass and the upgrade of the existing undivided highway to a four-lane superstreet in Slidell. The bridge replacement and corridor improvements are aimed at promoting mobility and safety along the corridor.

Arcadis performed all engineering services for this task order including bridge and roadway horizontal and vertical geometric design; railroad track, ballast, and maintenance road design to evaluate clearance requirements with future planned rail additions; 3D design modeling of existing terrain, railroad full-build condition, and bridge and roadway typical sections and geometric layouts for improvements to accurately determine earthwork, construction limits, and required right of way. Arcadis prepared a comprehensive LADOTD standard pay item construction cost estimate.

The design was prepared in accordance with the LADOTD Roadway Design Procedures and Details (March 2012 Revision), and AASHTO's A Policy on Geometric Design of Highways and Streets (2011 Edition, including November 2013 Errata). Five existing intersections were reconfigured as either r-cut intersections or as median U-turn (MUT) intersections to eliminate side street left turns. The corridor was designed to accommodate the WB-67 design vehicle requiring that several loons and truck aprons be provided at U-turns. Vertical geometrics were designed for the main corridor as well as all side streets and a 3D design model was developed to verify that construction limits were accurate, and that low ground clearance at railroad crossings were avoided. Also, the LADOTD Complete Streets policy was followed by implementing Context Sensitive Solutions. The design includes compliant ramps and crosswalks to incorporate the existing sidewalks and accommodate pedestrian traffic. Sufficient space has been included within the roadway border for the future installation, by the City of Slidell, of a multi-use path to accommodate bicyclists. Finally, access to existing businesses was carefully balanced with LADOTD Access Management policy.



Firm Members Involved: David Fulks, Akhil Chauhan, Buddy Porta, Thomas Montz, Craig Raymond

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FIRM NAME	Infinity Engine	ering Consultar	its, L.L.C.		DISCIPLINE(S)*		Road		**	
PROJECT NAME	anal Blvd. / City Pa	rk Avenue Inte	rsection Improve	ements				FIRM RESPONSIBILITY (PRIME OR S	SUB?) Prime	
PROJECT NUMBER	IEC-13-008			OWNER'S NAM	E	New Orlea	eans Regional Transit Authority			
PROJECT LOCATION	New Orleans, Louisiana OWNER'S PROJECT MANAGER Stephen Mitchell (No Longer)						onger with RTA)			
OWNER'S ADDRESS, F	PHONE, EMAIL	2817 Canal Stree	et, New Orleans, L	A 70119 (504	4) 827-8393	dlafrance	@rtaforward.org			
SERVICES COMMENCED BY THIS FIRM (MM/YY) 8/2013 TO				TOTAL CONSULTANT CONTRACT COST (\$1,000'S)				\$912		
SERVICES COMPLETE	COMPLETED BY THIS FIRM (MM/YY) 1/2018 COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S) \$4				\$465					

As the prime consultant for the final phase of the Canal Streetcar Line refurbishment, Infinity was tasked with designing a transportation hub that seamlessly and safely integrated the streetcar line, bus lanes, vehicular traffic, cycling lanes, and pedestrian walkways. The project extended the streetcar tracks to Canal Boulevard with a terminus in the first turnaround bay on the street. Deemed the "worst" intersection in the city by the RTA and Department of Public Works, Infinity redesigned the terminal to improve vehicular and streetcar safety. The new alignment improved traffic flow by adding proper signalization along City Park Avenue and Canal Boulevard; serving over 50,000 cars, buses, trucks, streetcars, and pedestrians every day.

Infinity's multi-discipline team collaborated on all components of the civil, mechanical, and electrical engineering needed for this project. Consequently, Infinity was able to provide in-house design for the roadway replacement, drainage improvements, track power and support poles (catenary system), underground utility relocation design, terminal mechanical and lighting protection systems, and streetcar track foundations. Throughout construction, Infinity provided construction administration and resident inspection services.

Infinity's construction administration & resident inspection services included:

- Reviewing contractor submittals and responding to contractor Requests for Information (RFI's)
- Providing engineering details as needed to further clarify any engineering designs or provide engineering guidance on field resolution during construction
- Assisting with the preparation and processing of change orders
- Performing on-site observation to inspect the work and monitor progress
- Issuing revised drawings when prompted by agreed upon field changes and revisions
- Completing construction closeout, record documents, and manuals for owner's record

Firm Members Involved: William Thomassie, P.E; Rachel Kenney, P.E.; Michael Riviere, E.I.





^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	Infinity Engine	ering Consu	ltants, L.L.C.		DISCIPLINE(S)*	Road	**		
PROJECT NAME	Mid-City Groups A &	& B Roadway	y Improvements					FIRM RES	PONSIBILITY (PRIME OR SUB?	Prime
PROJECT NUMBER	IEC-12-053			OWNER'S NAM	ΙE	City of New	Orleans Depart	ment of P	ublic Works	
PROJECT LOCATION	New Orleans, Louis	siana				OWNE	R'S PROJECT MANA	AGER	Christopher Harris	
OWNER'S ADDRESS	, PHONE, EMAIL	1300 Perdid	o St, New Orleans, LA	70112 (504)	658-8056	christopher.	harris@nola.gov	,		
SERVICES COMMEN	NCED BY THIS FIRM (MM/Y	Y)	Group A: 11/16 Group B: 6/17	TOTAL CONSULT	ANT CONTRAC	T COST (\$1,000)'S)		\$3	3,500
SERVICES COMPLET	red by this firm (MM/Y	Y)	Group A: 10/23 Group B: 2/25	COST OF CONSU	ILTANT SERVIC	ES PROVIDED E	3Y THIS FIRM (\$1,00	0'S)	\$2	2,500

Infinity developed a comprehensive scoping report for the City of New Orleans addressing longstanding roadway damage across 200 blocks of the Mid-City area in New Orleans, LA. This report included the locations and descriptions of eligible roadway repairs that aided the city in obtaining FEMA grant funding.

Based on the scoping report, Infinity was the prime consultant designing roadway improvements for over 200 blocks. These improvements included roadway pavement/curbing, base for the roadway pavement, subsurface drainage, and adjustments as required to driveways and intersecting streets. All final grades were made to be compatible with adjacent properties and provide for a positive flow of water toward catch basins. The designs for all intersections and medians complied with ADA requirements.

Infinity's designs also included new domestic sewer, water and drainage, and establishing new grade lines and tie into new systems into existing. The drainage designs were completed utilizing HYDRA6000 for drain inlet spacing and HYDRA6020 for sizing. Establish proposed grade line (PGL), establish inverts, regrade ROW, joint layouts, striping, signage and cross sections

established. Infinity created a pavement only drawing package and a separate package containing repairs associated with waterline, sewer line repairs and drainage point repairs.

Additionally, Infinity provided construction administration and resident inspection services throughout the duration of this project. Careful considerations were given to creating construction timelines that minimize the impact of street closures on residents, schools, and businesses. Infinity's project manager was in continuous coordination with the contractor and resident inspectors to problem solve challenges that arise when digging in an older city, such as identification of unknown lines and extension of repairs by field change directives. Total construction cost for both of these roadway projects: \$20,000,000.





Firm Members Involved: William Thomassie, Ricardo Contreras, P.E.; Michael Riviere, E.I.; Robert Haydel

^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	Infinity Engine	ering Consultar	nts, L.L.C.		DISCIPLINE(S)* Road		Road			**
PROJECT NAME	est Metairie Ave.	Street Rehabilit	ation and Utiliti	es Replacem	ent			FIRM RES	PONSIBILITY (PRIME OR SU	B?) Prime
PROJECT NUMBER	IEC 16-050			OWNER'S NAM	IE	Jefferson Pa	arish Governmer			
PROJECT LOCATION	Metairie, Louisiana OWNER'S PROJECT MANAGER Matthew Zeri						Matthew Zeringue			
OWNER'S ADDRESS, P	HONE, EMAIL	1221 Elmwood I	Park Blvd, Suite 90	4, Jefferson, L	A 70123 (5	04) 736-678	3 mzeringue@	jeffparish.	net	
SERVICES COMMENCED BY THIS FIRM (MM/YY) 1/2017				TOTAL CONSULTANT CONTRACT COST (\$1,000'S)					\$770	
SERVICES COMPLETED BY THIS FIRM (MM/YY) 4/2025 (E) C				COST OF CONSU	ONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S) \$68				\$680	

Infinity is the prime engineering and construction administration consultant for the restoration of (2) miles of West Metairie Avenue between Roosevelt Boulevard and David Drive. The complete street replacement designs include coordinating work on both sides of the canal to minimize impact to the residential areas. The project required the replacement of West Metairie Avenue pavement as well as adjacent canal bank stabilization. Adjacent sidewalks were also designed with side street turnout to meet ADA criteria.

Infinity provided geometry and layout of the sheet pile, including the treatment of culvert outfalls per Jefferson Parish provided standards. The sheet pile design also includes material specifications. Adjacent sidewalks are also being reconstructed with side street turnout to meet ADA criteria. Infinity's designs included improvement to the drainage system along the streets that was based off hydraulic studies. The drainage improvements included the following:

- Street outfall pipe replacement
- Adjustments of longitudinal and transverse slopes
- Adjustment of existing and addition of new drain inlets

Infinity is providing resident inspection and construction administration services throughout the project. The resident inspection services include the completion of daily construction reports. These reports include traffic control documentation, description of completed work, weather conditions, and safety documentation.

Firm Members Involved: Ricardo Contreras, P.E.; Kevin Hurtt, P.E.



FIRM NAME	C&M Associate	es, Inc. of Texas			DISCIPLINE(S)* Other (Traff			and Toll F	**	
PROJECT NAME	-10 Calcasieu River	Bridge Sketch-L	evel Traffic and	Revenue Ana	alysis			FIRM RES	PONSIBILITY (PRIME OR SU	3?) Prime
PROJECT NUMBER			OWNER'S NAM	IE	Acciona C	oncesiones S.L., a	cesiones S.L., and Sacyr Infrastructure USA LLC			
PROJECT LOCATION Lake Charles, Louisiana OWNER'S PROJECT MANAGER Ulises Wents							Ulises Wensell			
OWNER'S ADDRESS,	PHONE, EMAIL	Calle Gran Vía d	e Hortaleza, 3, Ma	drid, Spain 28	033 +34 600) 514 382 u	lises.wensell.mart	inez@acc	iona.es	
SERVICES COMMENCED BY THIS FIRM (MM/YY) 04/23				TOTAL CONSULTANT CONTRACT COST (\$1,000'S)					\$100	
SERVICES COMMENCED BY THIS FIRM (MM/YY) 04/23 SERVICES COMPLETED BY THIS FIRM (MM/YY) 05/23				COST OF CONSU	NSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S) \$				\$100	

On December 18, 2020, DOTD announced that the Louisiana Joint Transportation, Highway and Public Works Committee gave its approval for the department to solicit proposals and enter a contract for a P3 to build and finance a new Calcasieu River Bridge on I-10 in Lake Charles. On July 14, 2021, DOTD announced a short-list of four remaining bid teams. The purpose and need of the proposed project are to (a) address the lack of system connectivity on I-10; (b) reduce congestion; (c) address roadway and bridge deficiencies; and (d) address roadway and bridge safety concerns.

On behalf of Acciona and Sacyr, C&M provided advice and developed an independent, sketch-level T&R forecast to support their bid for the project. C&M provided advice in terms of general project details, the market for travel, and the potential for toll revenue, including the socioeconomic outlook, local development, willingness to pay tolls, and other key perspectives. C&M's sketch-level T&R analysis efforts included the following:

• Reviewing the latest traffic trends and characteristics (guided by C&M's previous experience with this project, having advised another potential bidder in late 2022, and C&M's experience with similar P3 projects owned by state DOTs).



- Conducting an independent, high-level socioeconomic analysis, including reviewing State and IMCAL demographic/socioeconomic forecasts for the project area, analyzing historical socioeconomic trends, reviewing land-use assumptions, and reviewing/critiquing the socioeconomic forecasts already developed on behalf of Acciona.
- Adopting the IMCAL model and making refinements, including developing a base year model, future year network coding, updating socioeconomic forecast inputs, and coding of the project with Acciona's view of the acceptable range of toll rates, with consideration of the RFP scoring criteria.
- Conducting a toll diversion analysis (including estimating users' willingness to pay/value of time) and a toll sensitivity analysis to assess the optimal tolling strategy to maximize revenues and manage traffic between the I-210 alternative and the project.
- Developing annual T&R projections after adopting, calibrating, and validating the IMCAL model.

Firm Members Involved: Jonathan Pagan; Manuel Sanchez; Fernando Escobar

^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	C&M Associate	es, Inc. of Texas			DISCIPLINE(S	5)*	Other (Tra	affic and Toll R	levenue Study)	**
PROJECT NAME	Laredo 4-5 Internati	onal Bridge Inv	estment Grade 1	Traffic and Re	venue Stu	dy		FIRM RESPONS	IBILITY (PRIME OR SUB?)	Sub (T&R Lead)
PROJECT NUMBER				OWNER'S NAM	E	Southwebb	Bridge Com	ipany, LLC		
PROJECT LOCATION	Laredo, Louisiana	edo, Louisiana OWNER'S PROJECT MANAGER Francisco Marquez								
OWNER'S ADDRESS	, PHONE, EMAIL	505 Grand Cent	ral Blvd, Laredo, TX	x 78045, (956)	740-0371, f	marquez@g	emcousa.co	m		
SERVICES COMMENCED BY THIS FIRM (MM/YY) 10/23 TOTAL CO					TOTAL CONSULTANT CONTRACT COST (\$1,000'S)					\$250
SERVICES COMPLET	ED BY THIS FIRM (MM/Y	Y)	08/24	COST OF CONSU	ILTANT SERVIC	ES PROVIDED I	BY THIS FIRM (\$1,000'S)		\$250

C&M conducted a traffic and revenue (T&R) study of a proposed POE and international bridge in Webb County, Texas (Laredo–Nuevo Laredo International Bridge, or Bridge 4/5). The purpose of this study was to produce T&R forecasts of sufficient quality to assess the project's feasibility, conduct financial planning, and meet the requirements for advancing the project's Presidential Permit application. The results of this study were also intended to support plans to accommodate the forecasted commercial and passenger vehicle demand, such as determining the project's number of lanes, inspection booths, and other border facility features.

The project is part of an approximately 4,000-acre land development plan in Webb County by the Southwebb Development Company. The Southwebb development includes the construction of warehouses, logistics centers, and a new binational foreign trade zone, as well as access to the project in the United States. Similar commercial developments are planned on the Mexican side of the border in the vicinity of the project.

In developing its T&R forecasts, C&M considered the following: existing information (including historical traffic and border crossings within the study area, historical shipment data, border-crossing delays, and previously developed traffic forecasts); field observations and data (including origin-destination and stated preference surveys); and historical, current, and projected socioeconomic data. The resultant T&R forecasts are a product of travel demand models (TDM) developed and adopted for the purposes of this study.

Firm Members Involved: Manuel Sanchez



^{*} If there is more than one discipline included in the proposal, then indicate which discipline(s) this project is being used to represent. **This field cannot be left blank and N/A is not acceptable. The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.

FIRM NAME	Ardaman & As	Ardaman & Associates, Inc.			DISCIPLINE(S	ISCIPLINE(S)* Geotech			**			
PROJECT NAME	LA-1 Phases 1 and 2								FIRM RES	PONSIBILITY (PRIME OR SU	JB?)	Prime
PROJECT NUMBER	SP No. 700-29-011	SP No. 700-29-0112, 700-29-0130			E	LADOTD						
	Lafourche Parish	ouisiana				0.00			CER	Ching Tsai (Phase I) Timothy Nickel (Phase	o 2)	
PROJECT LOCATIO		Juisialla				000	INER 3	S PROJECT WANA	AGEK	TITIOUTY NICKEI (FIIds	e zj	
OWNER'S ADDRES	S, PHONE, EMAIL	1201 Capitol Ac	cess Road, Baton F	Rouge, LA 22	5.379.1100	Timothy.	Nicke	el@la.gov				
SERVICES COMMENCED BY THIS FIRM (MM/YY)			01/03	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)						\$3,40	00	
SERVICES COMPLETED BY THIS FIRM (MM/YY) 12/			12/11	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)				\$3,40	00			

The project consisted of the construction of a replacement highway between Port Fourchon and Golden Meadow, Louisiana consisting of 17 miles of elevated roadway with pile supported approaches, low-level bridges and medium-level bridges, two elevated interchanges, and two fixed high-level bridges over navigable waterways. Once completed, the new highway will be almost as long as the Pontchartrain Bridge near New Orleans, generally regarded as the world's longest bridge. Ardaman faced an additional challenge of drilling in the sensitive marsh environment under jurisdiction of LA's Dept. of Natural Resources. This concern was addressed by developing an environmentally sensitive drilling program that included custom designing airboats mounted with drilling equipment. Ardaman was retained by the LADOTD at the beginning of the project in 2003 and was involved through the end of 2011. The scope of services included:

- Geotechnical field exploration (field reconnaissance, rights of entry, utility location, marsh access, mobilization/ demobilization, GPS location/elevation) for Phases 1 and 2; consisting of over 100 borings and CPT soundings
- Geotechnical laboratory testing services for Phases 1 and 2;
- Geotechnical design of Phase 1; and
- Pile quality assurance testing and resistance verification services during construction of Phase 1, consisting of over 400 piles.

In addition to the vast scope of field investigation that included deep borings, shallow borings and ECPT soundings and laboratory testing, the scope of services for this project also included pile foundation design, testing, and inspection services.

Firm Members Involved: Robert Jewell, Megan Bourgeois, Robert Rousset, Donald Anthony







FIRM NAME		NTB Associates	s, Inc.			DISCIPLINE(S	5)*		Other (SUE)				**
PROJECT NAME	Jimr	mie Davis Bridge	(LA 511) Desig	n-Build						FIRM RESI	PONSIBILITY (PRIME OR SU	JB?)	Sub
PROJECT NUMBER	t F	H.001779 OWN			OWNER'S NAM	E	LaDOTD Baton Rouge/ James Construction/ Huval & Associates, In					nc.	
PROJECT LOCATION Bossier & Caddo Parishes, Louisiana						OWNER'S PROJECT MANAGER Mr. Thomas Gattle,			I, PE				
OWNER'S ADDRES	S, PHO	DNE, EMAIL	922 West Pont D	es Mouton Road,	Lafayette, LA	70507 (337)	234-3	798 tg	attle@huvalass	oc.com			
SERVICES COMMENCED BY THIS FIRM (MM/YY)			01/22	TOTAL CONSULTANT CONTRACT COST (\$1,000'S)						\$1,14	0		
SERVICES COMPLETED BY THIS FIRM (MM/YY)			On-going	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)						\$1,14	0		

NTBA is performing Static GPS control, topographic and property surveying services, traffic control, utility coordination services, QL A, B, C, & D utility designating/locating, surveys in support of SUE as well as preparing title takeoffs, 60% Right-of-Way Maps, Final Right-of-Way Maps, and legal descriptions for the design-build project to replace the Jimmy Davis Bridge across the Red River. The scope of this project consists of constructing a new four lane structure carrying LA 511 across the Red River, converting LA 511 (Jimmie Davis Hwy) into a four-lane, median-divided highway on the east side of bridge; as well as providing full access interchanges between LA 511 and Clyde Fant Memorial Parkway and Arthur Ray Teague Parkway. NTBA designed and implemented a Traffic Control Plan for a bridge closure to verify the horizontal and vertical control set by LaDOTD during the original survey and verified the vertical control for both sides by running digital levels across the bridge, which was not performed in the original survey. All of this was completed during night shifts to ensure the safety of employees and the public as well as to avoid traffic disruptions.

NTBA performed property surveys and title take-offs for approximately 50 properties adjacent to the route and a property survey submittal prepared with apparent right-of-way shown. Final Mylar Right-of-Way Maps have been submitted for 21 parcels requiring right-of-way taking. The set included 21 plans sheets and one title sheet.

NTBA performed SUE services to designate all utilities within the project limits. A conflict matrix was created showing the utilities in conflict with the construction. We are coordinating with the utility owners to relocate utilities that conflict with the construction and will monitor the relocation to ensure compliance with relocation plans. NTBA is utilizing the Louisiana Department of Transportation Survey and Design Manual Addendum A as well as CI/ASCE Standard 38-02.



Firm Members Involved: A. Schulze / P. Staiano

FIRM NAME	Integrated Log	istical Support,	INC.		DISCIPLINE(S	5)*	C	ther (Outrea	ich)			**
PROJECT NAME	Entergy Public Outro	each - Resilienc	y Program						FIRM RESP	PONSIBILITY (PRIME OR S	UB?)	Sub
PROJECT NUMBER	N/A			OWNER'S NAM	IE	United	Utility					
PROJECT LOCATIO	PROJECT LOCATION New Orleans, Louisiana OWNER'S PROJECT MANAGER Ty Carmeans											
OWNER'S ADDRES	S, PHONE, EMAIL	909 Poydras St,	New Orleans, LA 7	0112, 601-985	5-9641, ty.ca	rmeans(@united	lutility.com				
SERVICES COMME	NCED BY THIS FIRM (MM/Y	Y)	2025	TOTAL CONSULT	ANT CONTRAC	CT COST (\$	51,000'S)				\$100),000
SERVICES COMPLETED BY THIS FIRM (MM/YY) Ongoin			Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000'S)						\$300)	

ILSI Engineering is providing public and community outreach services for ENTERGY New Orleans as part of a citywide program. This outreach includes the West Bank of New Orleans. With approximately 85 neighborhoods across 199 square miles in New Orleans, canvassing efforts will focus on neighborhoods scheduled for pole replacement. Depending on construction timelines, 2 to 60 staff members will canvas these neighborhoods, providing updates, answering questions, and ensuring clear communication throughout the process. The primary goal of this project is to enhance the City's resilience to storms while minimizing disruptions to residents and businesses. Through proactive engagement and effective communication, the project aims to ensure a smooth process and keep the community well-informed at every stage.



This \$100M project, consisting of 32 sub-projects, aims to harden and upgrade 3,100 utility poles to enhance storm and hurricane resilience in New Orleans. A survey utilizing GIS and LiDAR data was conducted to assess storm damage and estimate restoration costs. Ongoing pole inspections are helping to determine the extent of damage and identify neighborhoods that may experience power outages.

Specific protocols have been established to inform customers about outages and minimize frustration or disruption to local businesses. **ILSI will be present in the community to** maintain a positive customer experience and alleviate the need for residents to contact ENTERGY or their Council members for updates.

Firm Members Involved: Iam Christian Tucker, Peter Spencer

18. Approach and Methodology PETERS ROAD BRIDGE & EXTENSION (PHASE 3), ROUTES: LA 1261 & LA 3017

Summary of Experience

G.E.C., Inc. (GEC) is pleased to present LADOTD with a strategically selected, experienced team of recognized experts in each of the elements of work (project management, roadway design, bridge design, environmental/NEPA services, and toll study) required to complete the Peters Road Bridge & Extension (Phase 3) in Jefferson and Plaquemines Parishes. The GEC Team will provide all required services, resulting in a quality and successful project to advance to construction completion.

▶ GEC, along with team members Arcadis, Forte & Tablada, Infinity, C&M Associates, Eustis, Ardaman, NTBA, ILSI, and Coastal Engineering, provides LADOTD with all required design services to extend Peters Rd Bridge. Several team members have served in a sub-consultant role on previous or ongoing GEC projects. **GEC structural design staff have experience with designing bridges over navigable waters and urban areas.**

GEC understands the critical aspects of the project schedule and stands ready to fulfill the needs of LADOTD, Plaquemines Parish, and the Plaquemines Port on this project. The I-10 College Dr. Flyover project is nearing completion and GEC's roadway and structural engineers have the capacity to fast-track design services on the Peters Rd project. Staff are immediately available upon receipt of Notice to Proceed (NTP).

Project Understanding

The GEC Team has gained a comprehensive understanding of the Project's scope of work, encompassing the re-evaluation of the proposed vertical clearance over the Intracoastal Canal for Peters Road, consideration of design modifications to Phases 2A and 2B, re-evaluation or supplement to the previously approved Environmental Assessment (EA), and the development of a level 1 toll study.

GEC understands that the original plans for this project was designed for a 100-ft. vertical clearance over the Intracoastal Canal; however, the nearby Belle Chasse Bridge was constructed with a vertical clearance of 73-ft., thus, setting a precedent for a potential redesign of the Peters Road Bridge. The Peters Road Bridge is located less than 5 miles south of the Belle Chasse Bridge. It is essential to assess the specific maritime traffic patterns and vessel sizes that navigate the GIWW at the Peters Road location to determine an appropriate vertical clearance. Aligning clearance with actual navigational needs can optimize construction and maintenance costs.

The Peters Road Bridge project has secured a \$7.36M RAISE Grant to support its preliminary design phase. This project aims to enhance connectivity and traffic flow, providing substantial public benefits such as shortened travel time, alternative routes and reduced traffic hazards. This project was identified as a priority in Plaquemines Parish Comprehensive Master Plan to provide congestion relief to LA 23 in Belle Chasse area, provide an alternate hurricane evacuation route, and provide operational improvements at major intersections. To accelerate design, the Port has established a Cooperative

Endeavor Agreement (CEA) with LADOTD to manage the procurement process and select a design firm. Plans completed to date do not meet current AASHTO and LADOTD Bridge design standards (such as obsolete BT girders, timber piles supported approach slabs etc.) and require redesign. GEC is currently designing LADOTD bridge projects in accordance with current AASHTO LRFD Bridge design specifications, LADOTD BDEM and Technical Memoranda, including I-10 Williams to Veterans (95% final plans phase) and the College Drive Flyover (nearing construction completion).

GEC will provide all engineering and related services for the design and development of engineering plans for the extension of Peters Road (LA 3017) from Jefferson Parish over the Intracoastal Canal and onto LA 23 in Plaquemines Parish, including obtaining a supplemental Environmental Assessment.

Approach

GEC is the lead designer for the College Dr Flyover Design-Build project in Baton Rouge which is nearing construction completion. The GEC-designed project "fixes a problem of congestion and unsafe access that has plagued the interchange for the better part of half a century" according to a staff editorial on NOLA.com in March (2025).

The GEC Team will perform all engineering services in support of roadway design as required to prepare Preliminary and Final (following supplemental contract negotiations) Roadway Plans and associated services for this project. The Team will follow the standard steps outlined in the LADOTD Road Design Manual and by following current guidelines as applicable.

Project Scoping and Kickoff Meeting GEC team leadership will meet with the LADOTD Project Manager to outline the scoping and scheduling requirements for this project. GEC will also meet with key project stakeholders to establish goals and needs for all involved agencies. The GEC PM will request or clarify the following data:

- Determining the required vertical clearance over the Intracoastal Canal for Peters Road and the proposed bridge
- Requested changes to Phases 2A and 2B

GEC's PM will develop and continuously update the project schedule, utilizing Microsoft Project or Primavera 6, throughout the project process and submit it monthly as a part of the invoice packet and with each project milestone. The schedule will include each task, estimated completion dates, percentage complete, and actual dates. Suitable reoccurring project meetings will be scheduled for both the internal team and the external team as needed as the project progresses. An estimated project schedule detailing the critical project time for Peters Road design development is included as Figure 1.

GEC will maintain a Decision Log for the duration of the project, documenting key decisions made throughout the design process. This log will serve as a centralized record, ensuring transparency, consistency, and accountability among all project stakeholders.

This process involves systematically capturing decisions related to project scope, design alternatives, engineering solutions, regulatory considerations, and stakeholder input.

With extensive experience managing GEC desing staff for LADOTD projects. Cary Bourgeois will serve as GEC Team PM. His most recent experience is serving as Design Manager overseeing all management tasks for the College Drive Flyover project. Chris Nipper will serve as Assistant PM to expedite design tasks on this critical project. Chris has experience managing road design for LADOTD projects, including the College Dr Flyover, Willow St Improvements, and 13 concurrent IIJA Off-System Bridge projects.



Each entry will include the decision description, rationale, date, responsible party, and any supporting documentation. Regular updates will be made to reflect ongoing discussions and evolving project requirements.

By maintaining a comprehensive Decision Log, GEC will facilitate efficient project management, support informed decision-making, and provide a historical reference that enhances collaboration and minimizes potential disputes. GEC will develop standard processes and templates to enhance consistency and clarity for all decisions, resulting in successful management of this key deliverable.

GEC's Sherri LeBas has current experience managing the Decision Log for the I-10 Widening CMAR project in Baton Rouge for the past 5+ years. As Assistant Project Manager for the project, Ms. LeBas manages the NEPA re-evaluation and is responsible for the management of the Decision Log and Document Control.

The following items outline the specific issues or needs for this project and our approach:

Navigation Study GEC will review all existing documentation and prepare a navigation study to determine the required vertical clearance for the proposed Peters Road Bridge. For the USACE, New Orleans District, GEC completed a Vessel Traffic Forecast for the Gulf Intracoastal Waterway System (GIWW) as it related to the Calcasieu Lock. This included a Vessel Traffic Forecast for the GIWW associated with the IHNC Lock Economic Update Study. GEC prepared a very long-term commodity and vessel forecast for the GIWW and the Calcasieu Lock and the GIWW and the IHNC. Current staff have experience in transportation, freight, and vessel planning, research, and analysis, including logistics analysis, simulation modeling, cargo forecasting, evaluation of vessel fleet trends, facility congestion impact studies, and multimodal analysis for river basins, seaports, and overseas harbors. GEC will confirm the vertical clearance of Belle Chasse and determine if the same clearance will be effective at Peters Road, confirming that there is nothing between the two projects that would restrict similar clearances based on the study.

Design and Preliminary Plan Development GEC has reviewed the plans and details, including standard plans and special details, as provided by LADOTD for this project. Utilizing this information as central concept, GEC's design staff will develop all electronic files in MicroStation and Inroads formats, supported by talented design professionals from Infinity and Forte & Tablada. Plans will be CADD Conformed and submitted with the 100% Preliminary Plan and 100% Final Plan Submittals. In addition, GEC's Project Manager will maintain a log of all plan comments and provide DOTD with an overview of comments and resolutions to date following each submittal.

GEC's bridge design team will reevaluate the bridge girder types and substructure, and develop optimum design span lengths. The GEC team is familiar with the requirements of the bridges over navigation channels and has designed the Fort Buhlow Bridge over navigable Red River and recently completed the design of LA1 – Ph 2A over Ballinger Canal which is currently under construction.

Design will include improvements and upgrades to the local street system to accommodate construction of the elevated overpass. GEC design staff is currently developing preliminary and final plans for the redesign of two frontage roads, along with the extension and redesign of a local street, the widening and reconfiguration of Willow Street at the LA 182 interchange, and the temporary reconfiguration of LA 182 to facilitate the construction of the future I-49 extension, part of the overall I-49 Connector corridor project.

The GEC Team will prepare all plans in accordance with the most current LADOTD CAD standards. In addition to the resumes included in Section 16, GEC, Forte & Tablada, and Infinity support staff includes a depth of highly knowledgeable and skilled CAD personnel, experienced in utilizing Bentley's Microstation and InRoads programs. After obtaining the supplemental EA, the plan submittals for this work will adhere to LADOTD Road Design and Bridge Design manual requirements and the latest bridge design specifications (AASHTO LRFD, BDEM, etc), summarized as follows:

BRIDGE DESIGN DETAILS

ROAD DESIGN DETAILS

Includes structure type and span optimization PRELIMINARY PLANS: 30%, 60%, 95% PRELIMINARY PLANS: 30%, 60%, 95% (Plan-in-Hand), 100% Engineers Estimate, (Plan-in-Hand), 100% Engineers Estimate, Draft Design Exceptions, Draft Design Draft Design Exceptions, Draft Design Waivers, Draft Design Report

Includes typical sections and plan/profile sheets Waivers, Draft Design Report

GEC understands that final plan activities will be developed under a future contract supplement following approval of the supplemental EA. Final plans will be developed in accordance with all LADOTD requirements, including 60%, 95% (Advance Check Prints), and 98%/100% Final Plans.

▶ The inclusion of Forte & Tablada and Infinity enhances our team's ability to expedite roadway design work. The GEC team can efficiently distribute roadway tasks to accelerate the critical project on a tight schedule.

GEC understands that the reduction in the bridge clearance over the Intracoastal Waterway will reduce the length of the bridge on the south end. The modification of the bridge height may require reevaluation of the road intersections on the north end of the bridge as it crosses over Engineers Road. Arcadis will evaluate the traffic and geometric configuration for optimal design.

Forte & Tablada's Barriere Rd Extension project is part of a larger effort to improve accessibility associated with a planned expansion of the Naval Air Station/Joint Reserve Base in Belle Chasse. In addition, the project will enhance economic development in the area and provide an alternate route for commercial vehicles supporting the many industrial developments in both Plaquemines and Jefferson Parishes,



thus reducing congestion on the existing local road network. F&T has attended multiple planning meetings with the Parish President's office and the Naval Base to assist with efforts to move this project forward and has developed conceptual layouts for a proposed alignment that would construct a new boulevard adjacent to the existing Barriere Rd thus alleviating impacts to a residential community in the area. This new boulevard would extend west to the proposed Peter's Road Extension project.

Infinity serves as the Program Manager for engineering designs at the Plaquemines Port Harbor & Terminal District, guiding the port through the design and construction phases of various projects issued through task orders.

Recently, Infinity completed the emergency replacement of the Pointe à la Hache ferry landings, a critical Mississippi River crossing for local residents that had been out of service for nearly two years. Working under an expedited timeline, Infinity helped restore ferry operations, ensuring the community regained access as quickly as possible. This project required close coordination with the Plaquemines Port Harbor & Terminal District and LADOTD.

The GEC Team will perform all necessary tasks required as a part of the LADOTD process. Plans will adhere to the latest AASHTO LRFD Bridge Design Specifications, the Bridge Design and Evaluation Manual (BDEM), and all Bridge Design Technical Memoranda, along with the LADOTD Roadway Plan Preparation Manual, and the Hydraulics Manual. The GEC Team will prepare a preliminary report including the cost analysis and synopsis. Bridge scour calculations will be performed in accordance with the FHWA Evaluating Scour at Bridges Manual. The GEC Team will provide a complete "as designed" structural analysis of the load carrying capacity of all superstructure and structural components except cast in place and pre-cast slab spans and will be included in the rating report. If required, GEC will obtain any design waivers or exceptions necessary.

▶ The GEC-designed College Dr Flyover project realigned I-12 and provided a new overpass to achieve safety improvements in a heavily travelled interstate segment in Baton Rouge. Construction of the project has been "comparatively quick for major road work these days, and without an obscene amount of further disruption in the meantime to an already congested merge system" according to a staff editorial on NOLA.com in March (2025). Current GEC staff manage the Maintenance of Traffic (MOT) plan for the project which is nearing completion.

Critical elements of the Peters Rd bridge to be considered during design include:

- Current plans were designed for a 100 ft vertical clearance over the Intracoastal Canal; however, Peters Rd. may be potentially designed for a vertical clearance of 73 feet as established at the nearby Belle Chasse Bridge pending a navigation study.
- The potential reduction of the bridge's vertical clearance to 73 feet would result in a shorter bridge length, thereby decreasing the overall project cost. Other possible project cost reductions will also be explored by GEC.

Toll Study GEC sub-consultant C&M Associates will develop a level 1 toll study to estimate traffic and toll revenue for the proposed Peters Road Bridge and to determine the overall feasibility of the crossing as a toll facility. A Sketch-Level T&R Analysis (level I) is typically used to study the feasibility of toll projects and determine options for moving a project forward. Typical turnaround time is 8 to 12 weeks. C&M Associates has experience performing sketch level tolling studies across the country and recently served as T&R advisor for the Calcasieu River Bridge P3 team.

C&M understands that upstream toll facilities affect the demand on neighboring toll roads and bridges. C&M is aware that the Peters Road Bridge and Extension project is within 5 miles of the Belle Chasse P3 project and, depending on origins-destinations and toll rate settings for both projects, users will have the option to choose between the alternative facilities. C&M has ample experience analyzing toll rate setting and share allocation for passenger and commercial traffic between competing tolled facilities, including a recent analysis of competing dynamics between the Gordie Howe and Ambassador bridges in Michigan.

C&M will use the traffic counts, operational speeds, MPO travel demand model, cell phone GPS and location based devices to validate existing travel patterns in the study area. Future land uses and all relevant studies related to the Belle Chasse Bridge, the port, and other nearby infrastructure will be reviewed to develop trip generation, mode splits, trip distribution, and future intermodal developments, while also incorporating

18. Approach and Methodology

future year highway improvements.

A review of tolling locations will be conducted. It is assumed that this will be developed as an all-electronic tolling facility to facilitate non-stop high-speed travel. The team will develop a toll-pricing scheme based on consultation with the client. The toll rates and tolling points will be incorporated into the model. A series of traffic assignments will be run using a tolling algorithm for the opening year and future years. It is anticipated that a 40-year transaction and revenue stream will be developed. As part of the toll feasibility study, C&M will develop high-level capital and operational costs associated with toll collection and will compile all other costs developed by the project team. Net toll revenue will be computed on an annual basis for the 40-year period by considering toll revenue less operating costs. A high-level toll feasibility assessment will be made that looks at the project's potential bonding capacity against the proposed capital costs. A review of potential and committed funding sources exclusive of toll funding will also be considered as part of the feasibility assessment.

Supplemental EA and Related Documentation GEC stands ready to prepare the supplemental Environmental Assessment and related document by updating previous technical studies, along with noise, wetlands, threatened and endangered species, and cultural resource surveys. GEC's environmental staff, led by Bliss Bernard, are qualified to review all existing documentation and incorporate necessary information. Beyond technical design and environmental services, GEC has extensive experience in public engagement, including preparing exhibits, setting up and managing public meetings, providing displays, and delivering technical presentations. Coastal Engineering will provide permitting support on the GEC Team.

Current environmental staff have completed the NHI Course No. 142005, NEPA and the Transportation Decision-Making Process and have served as project managers and authors of numerous LADOTD NEPA documents, including CEs, EAS, EISs, FONSIs, and Section 4(f) Net Benefit Statements. GEC is currently providing the NEPA re-evaluation for I-10 Widening through Baton Rouge and is currently managing the EA for the US 190 Vine Street Reconstruction in St. Landry Parish. With this expertise, GEC is wellpositioned to navigate the environmental process efficiently while in compliance and maintaining stakeholder engagement.

As-Needed Services

Subsurface Utility Engineering In the event SUE files are not available, GEC has included NTBA as a sub-consultant on our team to provide the necessary SUE services.

Topographic Surveys GEC understands that LADOTD will provide existing topographic survey files for this project. GEC's sub-consultant Forte & Tablada will provide survey and scanning if needed.

Traffic Services GEC understands that LADOTD will supply all existing traffic data and believes significant attention will be necessary to optimize the design. This includes changes being considered to Phases 2A and 2B of the project. **GEC sub-consultant Arcadis will evaluate the traffic in the project area to optimize the interchange geometry and traffic movement.** Arcadis will review the traffic data for Stage 2A and 2B in combination

with the potential edited bridge touchdown point on the north side of the canal. The new touchdown point will allow for alternatives to the Peters Road/Engineers Rd. interchange including the interaction with Murphy Canal. Arcadis will explore interchange and intersection alternatives to provide the safest and most efficient layout and control for the interchange and intersections affected. Crash data will be obtained to determine existing crash patterns as well as analysis of each alternative to determine the potential effects on crash patterns. Traffic operations analysis software will be used where feasible to determine interchange or intersection operations for each alternative. The combined safety and operations analysis will aid in the identification of a preferred interchange alternative.

In compliance with LADOTD's on-going commitment to high quality traffic engineering reports, several GEC team members have completed the three (3) modules of the Traffic Engineering Process and Report Course offered by LTRC. This includes GEC's proposed Assistant Project Manager, Chris Nipper, along with numerous other design professionals and traffic personnel.

Geotechnical Engineering GEC recognizes the distinct soil characteristics present in the project area and has assembled a strong geotechnical subconsultant team. If additional geotechnical engineering is required, Eustis and Ardaman offer a full range of geotechnical analyses and soil testing services and have in- depth experience performing field services for LADOTD projects. Eustis will provide the required geotechnical services having performed the geotechnical services for Phases I, II, and III of the Peters Road project. Ardaman will leverage insights gained from their recent work on the Belle Chasse Bridge and Tunnel Replacement project, located near the new Peters Rd, to provide geotechnical QA/QC.

Construction Support

In Stage 5 of the Project Delivery process, GEC frequently provides construction support and construction related engineering for projects we have designed. GEC staff stands ready to provide pre-bid activities, bid documents, construction proposal documents, CPM scheduling, contract documents, construction support, shop drawing reviews, and plan revisions to adjust for unforeseen conditions. Construction Support shall consist of all services required to review and address Requests for Information (RFIs) from LADOTD's Construction Contractor.

GEC construction staff has ongoing experience on LADOTD construction projects in the project area, including at the Harvey Tunnel. GEC resident inspectors hold active DOTD certifications and are available to provide inspection services as needed.

Quality Plan Reviews

GEC's written Quality and Assurance procedures meet LADOTD's requirements and serve as the basis for our work on all contracts. GEC's Bridge QA/QC manual has been enclosed in Section 21.

By selecting GEC, LADOTD will have access to sufficient resources to fast-track the design of this project with our experienced partners. The GEC team is immediately available to provide the required design services to LADOTD.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State project number	Project name	Remaining unpaid balance**		
G.E.C., Inc.	Road	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	305,187		
		44-29193, H.004100.5 & H.004100.6	CMAR - I-10: LA 415 to Essen on I-10 and I-12 (Sub to Huval), East and West Baton Rouge Parishes	130,000		
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work performed over 2 yrs. Exp 6/30/26)	115,385		
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	46,396		
		44-29196, H.016075.2	IDIQ for Engineering and Technical Support Services for Critical Project, Statewide, T.O.# 1, I-10 Washington Street EB Exit Ramp CL (Sub to Stantec)	27,034		
G.E.C., Inc.	Bridge	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)			
		44-29193, H.004100.5 & H.004100.6	CMAR - I-10: LA 415 to Essen on I-10 and I-12 (Sub to Huval), East and West Baton Rouge Parishes	873,582		
		S.P. # H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	75,000		
		44-04900, H.004540.5	Leeville to Golden Meadow, Route LA 1 Relocated, Const. Engineering Services (Sub to HNTB)	172,531		
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work performed over 2 yrs. Exp 6/30/26)	593,762		
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	148,795		
		44-23923	IDIQ for Bridge Preservation (Sub to Huval) - No Task Orders Issued	N/A		
G.E.C., Inc.	Environmental	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	32,620		
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work performed over 2 yrs. Exp 6/30/26)	8,771		
		44-29193, H.004100.5 & H.004100.6	CMAR - I-10: LA 415 to Essen on I-10 and I-12 (Sub to Huval), East and West Baton Rouge Parishes	40,000		
		H.014990.5	South Tiger Bend Rd. and East Achord Rd. Bridges (Sub to Forte & Tablada)	8,944		
G.E.C., Inc.	ITS	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	19,447		
G.E.C., Inc.	Other	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	321,156		
	(Electrical)	44-29193, H.004100.5 & H.004100.6	CMAR - I-10: LA 415 to Essen on I-10 and I-12 (Sub to Huval), East and West Baton Rouge Parishes	700,000		
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	45,000		
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	54,012		
		44-26074, H.013617.6	IDIQ Contract for Electrical Statewide, TO#1 - I:10: I-610E Interchange Lighting	61,845		
		44-26074, H.014552.6	IDIQ Contract for Electrical Statewide, TO#2 - I-49: LA 31 Interchange Lighting	109,320		
		44-26074, H.015598.6	IDIQ Contract for Electrical Statewide, TO#3 - I-210: Hurricane Laura Lighting Repairs	117,052		
		44-26074, H.014556.6	IDIQ Contract for Electrical Statewide, TO#5 - I-49: US 190 Interchange Lighting	132,229		

G.E.C., Inc.	Other (Program Management	44-16958	Road Transfer Program Management, Statewide (NOTE: The Average Annual billing is approx. \$290,000/ year. We are in year 4 of 6. This billing represents 1 person stationed at DOTD. Thus, unlikely to bill this entire remaining balance. (Program Management ONLY – NO Planning, Road or Bridge Design work).	912,352
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work performed over 2 yrs. Exp 6/30/26)	108,300
		44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	51,910
		44-29193, H.004100.5 & H.004100.6	CMAR - I-10: LA 415 to Essen on I-10 and I-12 (Sub to Huval), East and West Baton Rouge Parishes	475,000
G.E.C., Inc.	CE&I/OV	44-23074, H.012465.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Flashing Yellow Arrow Part 3	26,342
		44-23074, H.010960.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 30 Roundabouts at Tanger Mall and I-10	249,337
		44-23074, H.013265.6	IDIQ for CE&I Services and Staff Augmentation, District 61 – Van Buren Street Over Corp. Canal	54,093
		44-23074, H.015424.6	IDIQ for CE&I Services and Staff Augmentation, District 61 – La 67: Plank Rd @ Airline- Girder Rep	64,813
		44-23074, H.012061.6	IDIQ for CE&I Services and Staff Augmentation, District 61 –LA 1: Bayou Moreau and Lateral W15#7A	236,588
		44-23074, H.014762.6	IDIQ for CE&I Services and Staff Augmentation, District 61 – LA 44: 1-10 – LA 621	620,727
		44-23074, H.15267.6	IDIQ for CE&I Services and Staff Augmentation, District 61 – LA 431: Left Turn Lane at LA 621	191,432
		44-28550, H.002868.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-49 S: Amb. Caffery / US 90 Interchange	188,626
		44-28550, H.013265.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - US 90: LA 14 to LA 83	249,283
		44-28550, H.015774.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 – LA 359: Local Road (Bolden)-LA 10	318,755
		44-14315, H.003370.6	IDIQ for Painting Inspection & Environmental Monitoring with CE&I, Statewide - I-220/I-20 Interchange IMP & BAFB Access	N/A
		44-14315, H.010000.6	IDIQ for Painting Inspection & Environmental Monitoring with CE&I, Statewide - US 171: Calcasieu River Bridge Repairs	37,447
		44-14315, H.014588.6	IDIQ for Painting Inspection & Environmental Monitoring with CE&I, Statewide – I-20: Orange Street Overpass Repair	N/A
		44-17006, H.011670.6	I-10/Loyola Interchange Improvements, Jefferson Parish	N/A
		44-23897, H.011965.6	LA 47: IWGO Bridge Rehabilitation (HBI) (CE&I) (sub to GPI)	1,184,880
		44,24438, H.010673.6	US 90: Harvey Canal Tunnel Rehab (CE&I), Jefferson Parish	985,054
		44-28884, H.003931.5	Calcasieu River Bridge (HBI), Calcasieu Parish	N/A
		44-27349, H.003931.6	Calcasieu River Bridge (HBI) (CE&I), Calcasieu Parish	17,042,237
		44-28466, H.015504.6	CCC Decorative Lighting Construction Engineering and Inspection (CE&I)	566,207
		44-29193, H.004100.5 & H.004100.6	CMAR - I-10: LA 415 to Essen on I-10 and I-12 (Sub to Huval), East and West Baton Rouge Parishes	4,000

ARCADIS	ITS	4400026457 / H.013868.5	ITS MGMT, OPERATIONS, & MAINT	649,986
U.S., INC.	ITS	4400026457 / H.013868.6 (A)	ITS MGMT, OPERATIONS, & MAINT	196,861
	ITS	4400026457 / H.013868.6 (B)	ITS MGMT, OPERATIONS, & MAINT	118,940
	Environmental	4400009703 / H.000688.2	US 11 Norfolk Southern Railroad	3,008
	Environmental	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	926,274
	Environmental	4400019338 / Multiple State Project Nos	Rural Bridge Replacement Initiative Phase II	52,764
	Environmental	4400009281 / H.009932	US 80 Widening: Vancil Road to Well Road EA	5,343
	Environmental	4400025022 / H.015498.5 Recall 102225	Park Road Over Lagoon	35,000
	Environmental	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Env. Task Orders	183,549
	Environmental	4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	65,529
	Traffic	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	963,921
	Traffic	4400019379 / H.013797	LA 30: EBR PL – I-10	232,048
	Traffic	4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	43,467
	Traffic	4400021325 / H.012837.5	I-10 New Orleans Master Plan	116,283
	Traffic	4400023690 / H.015590.5	LA 494: LA 6 To Blanchard Rd	213,696
	Traffic	4400025921 / H.015938.1	Transportation Systems Management and Operations (TSMO) Program	216,878
	Traffic	4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	190,399
	Road	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	269,615
	Road	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	1,772,370
	Road	4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	27,459
	Road	4400027361 / H.011220.6, H.012901.6, H.010634.6	US 90 Engineering Support	261,305
	Road	4400016923 / H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	193,131
	Road	4400019010 / H.010116.5	LA 1088: Soult and Trinity Roundabouts	33,307
	Road	4400024084 / H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	12,348
	Road	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Road Task Orders	26,082
	Bridge	4400029193 /H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	373,131
	Bridge	4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Bridge Task Orders	20,498
	Bridge	4400021325 / H.015193.1	LA 22: Tchefuncte Bridge Feasibility	4,889
	CE&I/OV	4400025046 / H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	35,297
	CE&I/OV	4400025665 / H.013482.6	I-10 WBR Queue Warning System	221,534
	Data Collection	4400021325 / H.012837.5	I-10 New Orleans Master Plan	7,655
	Data Collection	4400023812 / H.015377.5	Weigh Station Assessment	454,079

Forte and	Bridge	4400021594/H.009859.5	Task Order No. 1 - Load Rate Selected Statewide Bridges	7,156
Tablada, Inc.	Bridge, Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	51,603
	Bridge	4400021594/H.000303.6	Task Order No. 3 - Danziger Bridge Rehabilitation	4,245
	Bridge	4400021594/H.009730.5	Task Order No. 4 - In Depth Bridge Inspection T-1 Steel Weld Assessment	562
	Bridge	4400021594/H.015228.5	Task Order No. 5 - LA 70: Sunshine Bridge Emer Truss Repair	123
	Bridge	4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	1,491,180
	Bridge	4400021594/H.009730.5	Task Order No. 7 - In-Depth Bridge Inspections	70,577
	Bridge	4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	162,436
	Bridge	4400021594/H.015546.6	Task Order No. 9 - Caplis Sligo Road Over Red Chute Bayou	8,424
	Bridge, Survey	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	7,428
	Bridge, Survey	4400013387/H.013137.5	OSBR Ouachita	23,249
	Bridge, Survey	4400019864/H.014318.5	OSBR Gurney Road Bridges	4,708
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	3,487
	Road, Bridge	4400024641/H.005734.5	LA 447 Corridor	11,576
	CE&I/OV	4400023837/H.013090.6	Gretna Downtown Pedestrian Improvements	10,577
	CE&I/OV	4400023837/H.009290.6	LSU Laboratory School SRTS Project	6,933
	Survey	4400021532/H.005734.5	LA 447 Corridor Study	119,475
	Survey	4400021532/H.012537.5	LA 93: Coulee Ile Des Cannes	4,813
	Survey	4400021974/H.012449.5	H.012449.5 KCS Xings Gayosa St. & Louise	156,575
	Survey	4400021974/H.016311.5	LA 1123: Creek Bridges Recall No. 005286, 005290, 005300	152,847
	Survey	4400021974/H.016312.5	LA 3116: Creek Bridges Recall No. 005658, 005660, 005662	152,847
	Survey	4400021974/H.016332.5	LA 520: Drain Bridge	44,706
	Survey	4400021974/H.016748.5	US 167: Median Improvementws	296,090
	Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge	70,240
	Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	41,123
	Survey	4400004128/H.004273.5	I-49 Connector Additional ROW	111,532
Infinity Engineering	Bridge	Contract: 4400025022	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 2	\$60,000

Engineering	Bridge	State: H.015334.5	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 2	\$60,000
Consultants, L.L.C.		Contract: 4400021516 State: H.013818, H.013818, H. 011986, H.012734	Moveable Bridges (5) Pointe Coupee, Lafourche, and Terrebonne Parishes	\$9,367

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C&M				
Associates,	N/A	N/A	N/A	N/A
Inc. of Texas				

Eustis Geotech Engineering L.L.C.	Geotech	DOTD S.P./Task Order No. H.015028.6. Boh Bros. Subcontract No. 23210-009. Boh Bros. Project No. 2321034. Work Order No. 23210-017	Louisiana, State of - Department of Transportation and Development, LA 302: Bayou Barataria Bridge Replacement, Phase 1, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24515.02	\$3,440
		S.P. No. H.013897. F.A.P. No. H013897. Boh Portion 20274-026	Louisiana, State of - Department of Transportation and Development, I-10 and I-12 College Flyover Ramp Design-Build Project, East Baton Rouge Parish, Louisiana, Project No. B0646	\$10,090
		LADOTD Contract No. 4400021740. S.P. No. H.004100.6. F.A.P. No. H004100. 11265001.000 I-10 CMAR	Louisiana, State of - Department of Transportation and Development, I-10: LA Highway 415 to Essen Lane on I-10 and I-12, Phase I: West of Washington Street to Essen Lane, Phase I, Segment 01: West of Washington Street to Acadian Thruway, Route I-10, West and East Baton Rouge Parish, Louisiana, Eustis Engineering Project No. B0771	\$38,500

Ardaman &	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	\$491,353
Associates,		44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$77,788
Inc.		44-1960; H.013897	I-10 / I-12 College Drive Flyover Ramp	\$40,758
		44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$300,530
		H.04435	I-12 to Bush Construction Phase	\$47,956
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$25,760
		44-19013; H.002244.5	Boudreaux Canal Bridge (LA 56)	\$179
		44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	\$41,151
		44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$2,081,468
		44-25025; H.015337, H.015452-63, H.015489-92	Rural Bridge Replacement	\$247,711
		44-24652; H.012842.5	LA 124 Ext. Near Larto Lake	\$3,371
		44-24652; H.014265.5	N River Road Irving Branch	\$1,985
		44-24652; H.012533.5	LA 1252 Bayou Pt Brule Bridge	\$7,331
		44-24652, H.012607.5	Henderson Bayou Bridge LA 933	\$12,252
		44-24652, H.015568.5	Pelican Point Roundabout	\$8,058
NTB Associates, Inc.	Right-of-Way	4400019338 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner)	\$36,192
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	Right-of-Way	4400019337 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	\$48,492
	Survey	4400027686 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 2 – Spring Bridges	\$37,108
	Other (SUE)	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	\$66,250
	Right-of-Way	4400027918 H.015576	IDIQ Contract for Professional Boundary Surveying Services – Task Order 1 – LA 447 & LA 1025 Roundabout	\$38,297
	Right-of-Way	4400027918 H.013817	IDIQ Contract for Professional Boundary Surveying Services – Task Order 2 – LA 117: Improvements LA 8 to LA 118	\$48,575
	Survey	4400021975 H.016318	IDIQ Contract for Topographic Surveys/ Box Culvert Initiative – Task Order 1 – Recall No. 033872 & 033874	\$10,328
	Survey	4400021975 H.016325	IDIQ Contract for Topographic Surveys/ Box Culvert Initiative – Task Order 2 – Recall No. 008412	\$5,161
	Survey	4400021975 H. 016327	IDIQ Contract for Topographic Surveys/ Box Culvert Initiative – Task Order 3 – Recall No. 011534	\$5,228
	Survey	4400021975 H. 010794	IDIQ Contract for Topographic Surveys/ Box Culvert Initiative – Task Order 4 – Recall No. 010794	\$5,217
Integrated Logistical Support, Inc.	N/A	N/A	N/A	N/A
COASTAL ENGINEERING SOLUTIONS, LLC	N/A	N/A	N/A	N/A

* The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic. If a firm has more than one discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per discipline.

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: **ALL** FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

20. Certifications/Licenses

GEC

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

Christopher Nipper

Certificate of Completion presented to
Christopher Nipper
for completing the
Traffic Engineering Analysis Process & Report Module 1
Date:October 1, 2018Professional DevelopmentLocation:Baton Rouge, LouisianaHours (PDHs) Awarded: 2.5
Joby A Chrise Authorized Instructor Authorized Instructor Authorized Instructor
-OUISIANA BEPARIMENT OF TRANSPORTION & DEVElopment
Certificate of Completion
Christopher Nipper
for completing the
Traffic Engineering Analysis Process & Report Module 3
Date: December 3, 2018 Professional Development
Location: Baton Rouge, Louisiana Hours (PDHs) Awarded: 3
Location: Baton Rouge, Louisiana Hours (PDHs) Awarded: 3 Authorized Instructor Authorized Instructor Authorized Instructor



Bliss Bernard







Brian Buckel





Brian Buckel

has attended Louisiana Traffic Control Supervisor Refresher

Completed: 10-JAN-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.



Roland Maurin









Zachary Boylan







Zachary Boylan

has attended Louisiana Traffic Control Supervisor Refresher

Completed: 23-FEB-2024

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.

ATSSA SAFER REASES SAVE LIVES Serv	rican Traffic Safety ices Association	
This	s is to affirm that	
Zachary Boylan		
has satisfied the req CERT	uirements to be designated as a IFIED FLAGGER	
Issue Data/13/2024	ATSSA	
Exp. Date 3/12/2028	Instructor Name	
State Issued ouisiana	Instructor Signature	
A1000177231	Verify at Flagger.com	

Logan Michel









Thomas Swanson









Thomas Swanson

has attended Louisiana Traffic Control Technician

Completed: 15-OCT-2024

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.



Akhil Chauhan







Ari Deitch



Professional Development

Hours (PDHs) Awarded: 3

John Journals



Kester Hollier







G.E.C., INC.

Max Aguirre





Max Aguirre









Tait Karlson







Tyler Branch







Tyler Branch

has attended Louisiana Traffic Control Supervisor Refresher

Completed: 10-JAN-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.



Bradley Holleman





Bradley Holleman

has attended Louisiana Traffic Control Supervisor Refresher

Completed: 10-JAN-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.





Jeremy Cormier







Jeremy Cormier

has attended National Flagger Certification Training Course

> Completed: 10-JUN-2024 CEU (If Applicable): 0

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.

> American Traffic Safety Services Association ATSSA.com





Jeremy Cormier

has attended Louisiana Traffic Control Technician

Completed: 18-JUN-2024

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com



Jeremy Cormier

has attended Louisiana Traffic Control Supervisor

Completed: 20-JUN-2024

CEU (If Applicable): 1.5

ATSSA provides training and certification but neither constitutes employment by ATSSA. This certificate provides proof of training, not certification.



Rachel W

tachel Waldroup	
LAGC Traffic Control Class	
David Landreneau < davidi@lagc.org > To: @Rachel Waldroup	🙁 🏫 Reply
Some content in this message has been blocked because the sender isn't in your Safe senders list.	

Your Traffic Control Training Course begins (2March 11-13) at the LAGC Headquarter's office located at: 666 North St. Baton Rouge, LA. 70802

Please check your emails periodically prior to the start of the class to receive important communication about the class. Please be aware that LAGC has updated our refund/cancellation policy, which is listed below:

UPDATED REFUND & CANCELLATION POLICY (Effective May 1, 2024):

- · If you cancel 48 hours or more ahead of the day of the class, we will refund you 100%.
- If you cancel 24 hours ahead of the class, we will refund you 50%.
- · If you cancel the day of or are a no show, you will be charged for the class.

**Please contact David Landreneau, LAGC's Safety Manager, directly on his cell: 337-884-4735 or via email: david@lagc.org

You may also call Judy Brousseau at: 225-344-0432 or email her: judyb@lagc.org

The Reply /* Forward

Ross Wilson









November 11, 2024

Infinity Engineering Consultants, LLC Attn: Raoul Chauvin 4001 Division Street Metairie, La 70002

Dear Raoul Chauvin:

The Regional Transit Authority (RTA) have received your firm's Disadvantaged Business Enterprise (**DBE**) and Small Business Enterprise (**SBE**) Declaration of Eligibility form. Based on the information, which you provided, it has been confirmed that your firm continues to meet the eligibility requirements of our program and remains certified for <u>only</u> the following <u>specific</u> work categories <u>that fall under the listed NAICS and/or DOTD</u> Work codes:

- 541330Engineering ServicesC10ManagementC09Civil Engineering
 - C09 Civil Engineering C07 Electrical Engineering
 - C07 Electrical Engineering C05 Structural Engineering
 - C05 Structural Engineering C02 Mechanical Engineering

Please note that per the federal regulations, suppliers only receive 60% goal credit towards the materials they provide. Also, note that any contractor performing work worth more than \$50,000 except for electrical, mechanical and plumbing requires A Louisiana Contractor's License, which is required to have a license if work is more than \$10,000. You may contact the State Licensing Board for Contractors at (225) 765-2301 for more information. All participants of the Louisiana Unified Certification Program will recognize your firm's certification. This includes all entities receiving federal transportation funding within the boundaries of our state.

You will be required to submit a new Declaration of Eligibility form with your firm's gross receipts for the most recently completed fiscal year stating your firm continues to meet the eligibility requirements of the program. An email informing you to submit the necessary documentation will be forwarded to you approximately six (6) weeks prior to your anniversary date of **November 30, 2025**. However, should you not receive notification from this office regarding your Declaration of Eligibility form, it is your responsibility to contact us. Additionally, you must notify our office immediately regarding any changes which affect the social and economic disadvantage, size, ownership or control of your firm.



The Department has contracted with Urban League of Louisiana Center for Entrepreneurship & Innovation to provide DBE Supportive Services to all certified DBEs at no cost to you. This consultant can offer your firm assistance and guidance in areas such as marketing, estimating, bidding, financial preparations, etc. Contact Klassi Duncan with Urban League of Louisiana Center for Entrepreneurship and Innovation at (504) 620-9647 for any assistance needed to grow your organization.

We reserve the right to withdraw this certification, if at any time, it is determined that **DBE and SBE** certifications were knowingly obtained by the submission of false, misleading or incorrect data. We further reserve the right to request additional information and/or conduct an on-site visit at any time during your certification period.

We are pleased to have you as a participant in the LAUCP and wish you much success. If you have any questions regarding the content of this letter, contact the RTA DBE Office at (504) 827-8362.

Kind regards,

Keziab/Cawthorne DBE Program Administrator II

Enclosure (Certificate)





AT	SSA
PROOF OF	F TRAINING REBY RECOGNIZES THAT
Patric has Traffic Control Supervisor Trainir	k Staiano attended r Refresher-LA State Specific ng Course
<u>4/29/2022</u> to <u>4/29/2026</u> Training Valid Through Baton Rouge, LA Location	Langa Brith Director of Training Alace Tedechar President CEO
ATSSA provides training and certification	but neither constitutes employment by ATSSA.



Office of the Secretary PO Box 94245 | Baton Rouge, LA 70804-9245 PH: 225-379-1200 | FX: 225-379-1851

Jeff Landry, Governor Joe Donahue, Secretary

June 21, 2024

Integrated Logistical Support, Inc. Attn: Iam C. Tucker 4298 Elysian Fields Avenue, STE B New Orleans, LA 70122

Dear Iam C. Tucker,

The Louisiana Department of Transportation and Development (LADOTD) has received your firm's Disadvantaged Business Enterprise (**DBE**) and Small Business Element (**SBE**) annual affidavit. Based on the information, which you provided, it has been confirmed that your firm continues to meet the eligibility requirements of our program and remains certified for <u>only</u> the following <u>specific</u> work categories <u>that fall under the listed NAICS and/or DOTD Work codes</u>:

Please note that per the federal regulations, suppliers only receive 60% goal credit towards the materials they provide. Also, note that any contractor performing work in excess of \$50,000 with the exception of electrical, mechanical and plumbing requires A Louisiana Contractor's License, which are required to have a license if work is in excess of \$10,000. You may contact the State Licensing Board for Contractors at (225) 765-2301 for more information. All participants of the Louisiana Unified Certification Program will recognize your firm's certification. This includes all entities receiving federal transportation funding within the boundaries of our state.

Louisiana Department of Transportation and Development | 1201 Capitol Access Road | Baton Rouge, LA 70802 | 225-379-1200 An Equal Opportunity Employer | A Drug-Free Workplace | Agency of Louisiana.gov | dotd.la.gov **Integrated Logistical Support, Inc.** June 21, 2024 Page 2

You will be required to submit an annual affidavit with all supporting documents (**Business taxes with all attachments, such as 1098, 1099, K-1's and/or W-2's**) stating your firm continues to meet the eligibility requirements of the program. An email informing you to submit the necessary documentation will be forwarded to you approximately six (6) weeks prior to your anniversary date of April 30, 2025. <u>However, should you not receive notification from this office for your annual affidavit; it is your responsibility to contact us</u>. Additionally, you must notify our office immediately regarding any changes, which affect the social and economic disadvantage, size, ownership or control of your firm.

The LADOTD has contracted with Urban League of Louisiana Center for Entrepreneurship & Innovation to provide DBE Supportive Services to all certified DBEs, in the LAUCP, at no cost to you. This consultant can offer your firm assistance and guidance on areas such as marketing, estimating, bidding, financial preparations, etc. Contact Klassi Duncan with Urban League of Louisiana Center for Entrepreneurship and Innovation at (504) 620-9647 for any assistance needed to grow your organization.

The Louisiana UCP certifying entity reserves the right to withdraw this certification, if at any time, it is determined that **DBE and SBE** certifications was knowingly obtained by the submission of false, misleading or incorrect data. The Louisiana UCP certifying entity also reserves the right to request additional information and/or conduct an on-site visit at any time during your certification period.

We are pleased to have you as a participant in the LAUCP and wish you much success.

If you have any questions regarding the content of this letter, contact the LADOTD DBE Certification Unit at (225) 379-1382.

Respectfully,



Rhonda Wallace DBE/SBE Programs Manager

Enclosure (Certificate)

Louisiana Department of Transportation and Development | 1201 Capitol Access Road | Baton Rouge, LA 70802 | 225-379-1200 An Equal Opportunity Employer | A Drug-Free Workplace | Agency of Louisiana.gov | dotd.la.gov



Search for Louisiana Business Filings					
Buy Certificates and Certified Copies	Subscribe to Electronic Notification	Print Detailed Record			
Name	Туре		City		Status
G.E.C., INC.	Business Corpora	tion	BATON ROUGE		Active
Name	Туре			City	Status
ARCADIS U.S., INC.	Business	Corporation (Non-Louisiana)		WILMINGTON	Active

	Search for Louisiana Business Fili	ngs	
Buy Certificates and Certified Copies Subscribe to Electronic Notification	Print Detailed Record		
Name	Туре	City	Status
FORTE AND TABLADA, INC.	Business Corporation	BATON ROUGE	Active

Buy Certificates and Certified Copies Subscribe to Electronic Notification Print Detailed Record			
Name	Туре	City	Status
NFINITY ENGINEERING CONSULTANTS, L.L.C.	Limited Liability Company	METAIRIE	Active
Previous Names			

Name	Туре	City	Status
C&M ASSOCIATES, INC. OF TEXAS	Business Corporation (Non-Louisiana)	DALLAS	Active

Туре	City	Status
Limited Liability Company	METAIRIE	Active
	Type Limited Liability Company	Type City Limited Liability Company METAIRIE

Buy Certificates and Certified Copies	Subscribe to Electronic Notification	Print Detailed Record		
Name	Туре		City	Status
ARDAMAN & ASSOCIATES,	INC. Business Corpor	ration (Non-Louisiana)	ORLANDO	Active

Search for Louisiana Business Filings				
Buy Certificates and Certified Copies	Subscribe to Electronic Notification Print Detailed Record			
Name	Туре	City	Status	
NTB ASSOCIATES, INC.	Business C	Corporation SHREVEP	ORT Active	

Search for Louisiana Business Filings							
Buy Certificates and Certified Copies Subscribe to Electronic Notification Print D	Detailed Record						
Name	Туре	City	Status				
INTEGRATED LOGISTICAL SUPPORT, INC.	Business Corporation	NEW ORLEANS	Active				

Name	Туре	City	Status
COASTAL ENGINEERING SOLUTIONS, LLC	Limited Liability Company	BATON ROUGE	Active

Project References for Level 1 "Sketch" Toll Analyses (MPR No. 6) C&M ASSOCIATES, INC. OF TEXAS



PAGE **137** OF 155

Project Name & Description	Project Location	Owner	Point-of-Contact	Phone Number	Email
I-10 Calcasieu River Bridge Sketch- Level Traffic and Revenue Analysis	Lake Charles, LA	Acciona Concesiones S.L., and Sacyr Infrastructure USA LLC	Ulises Wensell	+34 600 514 382	ulises.wensell.martinez@ acciona.es
I-495 Southside Express Lanes (SEL) Sketch-Level Traffic and Revenue (T&R) Study	Alexandria, VA	Virginia DOT P3 Office (VAP3)	Jeong Yun Kweun, Program Manager	(804) 786-0441	jeong.kweun@vdot. virginia.gov
I-40 Choice Lanes Sketch-Level T&R Study	Knoxville, TN	Kiewit Development Company	Nick Farber, JD, Vice President	(720) 765-6357	Nicholas.Farber@kiewit. com
Berthoud Tunnel and Express Lanes Sketch Level T&R Study	Clear Creek and Grand Counties, CO	Berthoud Tunnel Building Authority, Ltd. (BTBA)	Philip Seawalt, Chief Executive	(303) 519-9237	pseawalt@gmail.com
Chesapeake Bay Crossing Sketch- Level T&R Study	Anne Arundel and Queen Anne's Coun- ties, MD	Maryland DOT/ Transportation Authority (MDTA)	Heather Lowe, Planning and Community Relations Manager	(410) 537-5665	hlowe@mdta.state.md.us
Flor de Mayo International Bridge Sketch-Level T&R Feasibility Study	Cameron County, TX	Cameron County Regional Mobility Authority (CCRMA)	Pete Sepulveda, Jr., Executive Director	(956) 621-5571	psepulveda@ccrma.org
Hidalgo Loop Sketch-Level T&R Analysis	Hidalgo County, TX	Hidalgo County Regional Mobility Authority (HCRMA)	Ramon Navarro	(956) 960-8826	ramon.navarro@hcrma.net
I-81 Corridor Sketch-Level T&R Study and Scenario/Sensitivity Analyses	Virginia (Statewide)	Virginia DOT P3 Office (VAP3)	Faizan Habib, Director	(804) 786-0482	faizan.habib@vdot.virginia. gov

21. QA/QC Plan

If the advertisement requires submission of a QA/QC plan, include it here. Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.

The Scope of Services provided in Attachment A for Contract 44-31920 includes design of one (1) or more bridges and/or component parts thereof. Therefore, GEC has submitted a bridge design QA/QC plan document specifically developed for this contract on the following pages. The QA/QC plan document complies with the minimum requirements in the DOTD Bridge Design Section Policy for QA/QC as stated in Part I, Chapter 3 of the DOTD Bridge Design & Evaluation Manual (BDEM).



GEC BRIDGE DEPARTMENT

QUALITY ASSURANCE/QUALITY CONTROL

MANUAL

Prepared for:

LADOTD

CONTRACT NO. 4400031920 STATE PROJECT NO. H.008069.5 FEDERAL AID PROJECT NO. H008069 PETERS ROAD BRIDGE & EXTENSION (PHASE 3) ROUTES: LA 1261 & LA 3017 JEFFERSON AND PLAQUEMINES PARISHES

> September 2017 Revised August 2019 Revised September 2020 Revised March 2025



Overview Goals and Objectives

The Bridge Department of GEC has developed and implemented this Quality Assurance/Quality Control (QA/QC) guide in accordance with FHWA and LADOTD requirements. The QA/QC process applies to all types of bridge projects. In addition, the QA/QC process applies to the development of design guidelines, design examples, spreadsheets, and other design aides. Modifications to the QA/QC process and procedures may be required for large or complex structures. **GEC recognizes our 100% responsibility for the QA/QC process.**

The Quality Assurance/Quality Control (QA/QC) program establishes the following goals:

- Take responsibility for the QA/QC of a project, regardless of role. This includes the review of all Sub-consultant work and deliverables.
- Communicate openly to address concerns and solve problems immediately.
- Plan, coordinate, supervise, and provide technical direction.
- Employ skilled personnel who perform their work with care to produce a quality product.
- Produce quality work through review and checking by individuals not directly responsible for the initial work
 product.

The objectives of the QA/QC program are to produce bridge designs that are:

- **Designed and Detailed** in accordance with the policies and procedures defined in the current LADOTD BDEM, applicable technical memorandums, and in relevant guidelines on the LADOTD Website.
- **Clearly define** the sources of information for the calculations and the interface with related documents described in **constructible plans**.





Bridge Design and QA/QC Process

As part of the QA/QC process, this document will serve as a template to follow for every bridge project. The process can be summarized as follows:

- Step 1 Selection of the Project Team
- Step 2 Development of Design Criteria
- Step 3 Design and Development of Details
- Step 4 Quality Control (QC) of Design and Details
- Step 5 Quality Assurance (QA) of Design and Details
- Step 6 Peer Review (if requested by the Bridge Design Engineer Administrator)
- Step 7 Sealing of Design Calculation Book and Plans by the EOR
- Step 8 QC/QA for Design Activities after Final Plans
- Step 9 Archiving Bridge Design Files

Step 1 – Selection of the Project Team

At the beginning of each project, a project team will be selected based on the complexity of the project. Team member responsibilities are as outlined below:

- Supervisor/Group Leader A licensed professional engineer who manages a group of Engineers and Detailers. The supervisor/group leader must have substantial experience in the design of structures similar to the proposed project. The supervisor/group leader is responsible for assigning work to Engineers and Detailers based on their level of experience and the complexity of the project. In addition, a supervisor/group leader is responsible for internal Quality Assurance reviews.
- Design Engineer A licensed professional engineer or engineering assistant working under the direct supervision of a licensed professional engineer. The Design Engineer provides the data, such as design sketches, necessary for detail drawing development. In addition, the Design Engineer checks the details for errors, completeness, conformity, and consistency.
- Checker A licensed professional engineer or engineering intern working under the direct supervision of a licensed professional engineer. The Checker thoroughly reviews the calculations or detail drawings for the purpose of reducing errors and omissions and increasing completeness, applicability, and conformance.
- Detailer A drafter or engineer who generates and revises details, plan sheets, and drawings in electronic format.
- Engineer-of-Record A licensed professional engineer who is responsible for supervision and/or preparation of
 plans, sealing calculations, signing and sealing the final plan set, and special provisions if required. This may be
 the Design Engineer or Supervisor. The Engineer-of-Record must have substantial experience in the design of
 structures similar to the proposed project.

Step 2 – Development of Design Criteria

Design criteria must be established at the beginning of each project and submitted to the LADOTD for review and approval before the design process is initiated. The design criteria shall be updated as appropriate throughout the project. A current listing of design criteria shall be maintained at all times. The design criteria shall be included in the final calculation book. All design assumptions and any design exemptions that are granted are to be included in the design criteria. The design criteria shall include at least the following sections with the minimum information indicated in each section.

QA/QC Manual for LADOTD S.P. No. H.008069.5



Design Criteria Checklist

Cover Sheet

LADOTD project number

- Project name
- Revision date

The Supervisor or Team Leader's signature and date

 Governing Design and Construction Specifications and Other References

> A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.

- Design Assumptions and Design Exceptions All design assumptions and design exceptions received must be included in this section along with supporting documents
- General Information
 - Bridge information (number of bridges, bridge clear width, length, number of lanes, lane width, shoulder width, etc.) Road information (roadway classifications, design speed, traffic data, etc.) Vertical datum Vertical and horizontal clearances
 - Other relevant information
- Approach Slab
 - Design criteria
 - List standard plans and special details utilized.
- Bearings
 - Type(s)
 - Design criteria

List standard plans and special details utilized.

- Superstructure
 - Type(s)
 - Design criteria
 - List standard plans and special details utilized.
- Piles and Drilled Shafts
 - Type(s)
 - Design criteria

List standard plans and special details utilized.

- Mechanical Design
 Design criteria
 List standard plans and special details utilized.
- As-Designed Bridge Rating Criteria Rating criteria
- Software List all software used for design and checking.

- Hydraulic Design Criteria provided by the Hydraulic Engineer
 - Design year Design water elevations Scour depth Scour elevation
- Design Loads Dead loads Live loads Wind loads Thermal loads Vessel collision loads Seismic loads
 - Wave loads Other applicable loads
- Limit States All applicable limit states shall be listed in this section.
- Design Factors
 - Ductility factor η_D Redundancy factor η_R Operational importance factor η_I
- Bridge Barrier Type(s) Design criteria/test levels List standard plans and special details utilized.
- Guardrail
 - Type(s) Design criteria/test levels
 - List standard plans and special details utilized.
- Deck and Deck Drainage
 - Design criteria

List standard plans and special details utilized.

- Joints
 - Type(s)
 - Design criteria

List standard plans and special details utilized.

- Substructure
 - Type(s)
 - Design criteria
 - List standard plans and special details utilized.
- Geotechnical Design to be provided by the Geotechnical Engineer Design criteria
 - List standard plans and special details utilized.
- Electrical/Lighting Design
 Design criteria
 List standard plans and special details utilized



Step 3 – Bridge Design and Development of Details

Bridge Design

The Design Engineer is responsible for the development of the design calculations, details, cost estimate, and any special provisions that may be required. Prior to beginning the design process, confirm that the bridge type, size, location, and design criteria have been established and approved by the Supervisor/Team Leader.

The design calculations are to be organized and maintained by the Design Engineer in a Calculation Book that includes, but is not limited to, the following sections.

Cover Sheet – include the following information:

- LADOTD project number
- Project name
- The title of "Final Calculation Book"
- The EOR's seal with signature and date

Design Criteria

Superstructure Design Calculations

Substructure Design Calculations

Quantity Calculations

QC/QA Certification

• Refer to Appendix A

Final Hydraulic Analysis Report from Hydraulic Engineer

Final Geotechnical Analysis Report from Geotechnical Engineer

Special Provisions/NS-Items

Construction Cost Estimate

As-Designed Rating Report

List of All Final Electronic Design Files and File Locations (ProjectWise directory name)

The Final Calculation Book is to be submitted to the LADOTD Bridge Task Manager. Consult with the Bridge Task Manager to determine if submittal shall be on a CD, a Flash Drive, or placed to a designated ProjectWise folder. Include the following:

A PDF File of the Calculation Book All Electronic Design Files A PDF File of the As-Designed Rating Report




Development of Details

The Design Engineer must work together with the Detailer on the establishment of the bridge details and supervise the detailing work to verify that the details represent the bridge type, size, location, and design criteria that have been established.

Submittals of bridge details are to follow current LADOTD requirements. Typical submittals and their order are as follows:

- 1. Design Criteria
- 2. Bridge Type, Size, and Location (TS&L)
- 3. 30% Preliminary Plans
- 4. 60% Preliminary Plans
- 5. 90% Preliminary Plans
- 6. 100% Preliminary Plans
- 7. 30% Final Plans

- 60% Final Plans
 90% Final Plans
- 10. 100% Final Plans
- 11. Final Calculation Book
- 12. Plan Revisions (if required)
- 13. Change Orders (if required)

Use the template on the following page as an outline for sheet order and plan development for each submittal to the LADOTD.



Table 1. Typical Submittals and Associated Design and Detail Progress.

	Submittals							
Item	Preliminary Plans			Final Plans				
	30%	60%	90%	100%	30%	60%	90%	100%
QC/QA Certification	R	R	R	R	R	R	R	R
Bridge Index	D	D	D	D	D	D	С	S
General Notes	D	D	D	D	D	D	С	S
Summary of Estimated Quantities	D	D	С	C	D	D	С	S
General Plans	D	D	С	C	С	С	С	S
Typical Sections	D	D	С	C				
Superelevation Diagram		D	D	C	С	С	С	S
Construction Phasing Details		D	D	C	С	C	С	S
Traffic Controls Details		D	D	C	С	С	С	S
Foundation/Pile Layout		D	D	C	С	С	С	S
Pile Loads/Details			D	D	D	С	С	S
Pile Data Tables					D	D	С	S
Bent Details					D	D	С	S
Fender Details					D	D	С	S
Girder Details					D	D	С	S
Span Details					D	D	С	S
Joint Details						D	С	S
Bearing Details						D	С	S
Approach Slab						D	С	S
Guardrail Details						D	С	S
Bridge Barrier/Railing Details						D	С	S
Bridge Drainage Details						D	С	S
Detour Bridge Details						D	С	S
Revetment Details						D	С	S
Signing/Lighting Details						D	С	S
Year Plate						D	С	S
Rebar Support						D	С	S
Misc. Details						D	С	S
Project Specific Standard Plans							C	c
and Special Details						U	C	5
Electrical/Lighting Details						D	C	S
Mechanical Details						D	С	S
As-Built Plans	<u> </u>					D	C	S
Special Provisions/NS-Items					D	D	C	С
Cost Estimate			D	D	D	D	С	С

Legend:

"R" – The item is required and shall be included in the submittal.

"D" – The item shall be in development and included in the submittal.

"C" – The item shall be complete and included in the submittal.

"S" – The item is stamped by the EOR and shall be included in the submittal.



Step 4 – Quality Control (QC) of Design and Details

Quality Control is the process of checking the accuracy of calculations and consistency of the drawings, detecting and correcting design omissions and errors prior to finalizing design plans and specifications.

At the beginning of each project, design engineers and calculation checkers are to be assigned to the design of each component. Likewise, detailers will be assigned to the detailing and checking of each component to be detailed.

The Engineer-of-Record will sign and seal all final details and modified standards.

Quality Control of Calculations

This process applies to calculations, reports, studies, design spreadsheets and any other documents that are not details, plan sheets, or drawings. The required process and the responsibilities of each team member when confirming that calculations are prepared and checked, are as provided in the following section and as summarized in the Quality Control of Calculations flow chart shown in Figure 1.

Preparation (Design Engineer)

- Prepare relevant, appropriate calculations and sketches containing all information (input, basis, comments, references and sketches) necessary to convey the purpose and nature of the calculations. Calculations are standalone, to the extent reasonably possible.
- Present the calculations and sketches in a neat and logical manner that is conducive to checking.
- Conform the calculations and design sketches to be in accordance with the policies and procedures defined in the current LADOTD BDEM and all relevant Technical Memorandums. Review the LADOTD Website frequently to access additional directives and modifications to the information provided in the current LADOTD BDEM.
- Perform all calculations on GEC calculation sheets, or spreadsheet equivalents (i.e. personal spreadsheets or design spreadsheets), or with LADOTD approved software. See LADOTD Bridge Design Section website for a list of pre-approved software.

Checking (Checker)

- Check each component to ensure compliance with the policies and procedures defined in the current LADOTD BDEM and relevant Technical Memorandums and the LADOTD Website.
- Check the calculations for internal consistency and traceability of sources. Thoroughly check the calculations, including assumptions, given values, formulas, omissions, and accuracy of arithmetic.
- Check methodology, reasonableness of results, and constructability. If necessary, ask for clarification from the Design Engineer, request additional calculations, and if unsure of any particular element, seek technical advice.
- Check the calculations by the method shown in the Quality Control of Calculations flowchart provided in Figure 4.1. Alternatively, check the calculations by providing independent calculations. Keep the alternate, independent calculation with the original. Indicate on the original that an alternate calculation was used for checking.
- When an error in computer input, assumptions, or load calculations is found, consider what that error will do to the
 outcome before redesigning the member. If the error has a negligible impact to the final design, it may not be
 necessary to redo the calculation. For instance, it may be unnecessary to re-run a program for a 0.1 k difference in
 load or a 1-foot station difference in geometry.



• When an error is found that will have impact on the remainder of the calculations, return the calculations to the Design Engineer for correction prior to completing checking of the calculations. The Designers calculations are the calculations of record and must be updated.

Correcting (Design Engineer)

• Revise the calculations and sketches based on the mark-ups. If not in agreement with a mark-up, discuss it with the Checker. Come to an agreement on whether to incorporate the mark-up. If unable to come to a resolution, consult the supervisor/group leader.

Verifying (Checker)

• Back check the revised calculations and sketches against the mark-ups to confirm all corrections have been incorporated or otherwise addressed.



Figure 1. QC for Calculations Flowchart



Quality Control of Details

This process applies to details, plan sheets, and drawings. The Quality Control of Details flow chart included as Figure 2 provides the process for the checking of the drawings.

Preparation (Detailer)

• Develop all details in accordance with the current LADOTD BDEM and applicable LADOTD policies and practices.

Checking (Design Engineer or Checker)

- Check the details for completeness of the plan set for design intent, technical adequacy and conformity to applicable standards, and for consistency with the corresponding calculations.
- Check individual drawings using appropriate guidelines from the current LADOTD BDEM for errors, completeness, conformance, and consistency.

Correcting (Detailer)

• Revise the details based on the mark-ups. If not in agreement with a mark-up, discuss it with the Checker. Come to an agreement on whether to incorporate the mark-up. If unable to come to a resolution, consult the supervisor/group leader. Mark any additional revisions on the originals.

Verifying (Design Engineer or Checker)

• Back check the revised details against the mark ups to confirm all corrections have been incorporated or otherwise addressed.

Addendum and Change Orders

It is sometimes necessary to submit revised plan sheets to address a change order or an addendum. For change orders and addendum, follow the current LADOTD policy and procedures. Remember to update all relevant calculations and details.

Completion

Upon completion of the design and detail check, the Designer shall prepare a QA Information Package that includes:

- Calculation Book
- Plans
- Special Provisions including Non-Standard Items
- Cost Estimate
- Other Relevant Documents







Step 5 – Quality Assurance (QA) of Design and Details

Quality Assurance is the process of reviewing the quality control process for use and effectiveness at preventing mistakes and ensuring compliance. The Quality Assurance process varies depending on the stage of plan development and who develops the plans. The Quality Control Plan is to be maintained such that it can be submitted to the LADOTD if requested.

During Plan Development

The Supervisor/Group Leader is responsible for Quality Assurance. The Supervisor/Group leader determines the level and complexity of the Quality Control process, assigns the Design Engineer, Checker, and Detailer. The Supervisor/Group Leader confirms the Quality Control process by reviewing that the details identify the correct Design Engineer, Checker, and Detailer. In addition, the Supervisor/Group Leader completes a review of the details for constructability, applicability, completeness, and conformity.

Upon completeness of the QA process (no later than the 95% final plans stage) the design calculations, details, special provisions, and cost estimate are considered final and the QC/QA Certificate included in Appendix A is to be signed by members of the project team.

During Construction

During construction, LADOTD engineers assume the role of Engineer-of-Record and complete field-engineering reviews. If a complex problem occurs, the LADOTD may contact the original Engineer-of-Record, who will determine a solution and if necessary, provide calculations and revised details.

Step 6 – Peer Review (if required)

Typically, a peer review will not be required. For more complex projects, however, the LADOTD Bridge Design Engineer Administrator may request a peer review. The peer review process is to be in accordance with the requirements specific to the project. At the conclusion of the review, a Peer Review Resolution Agreement may be required. See BDEM for current Peer Review Resolution Agreement form.

Step 7 – Sealing of the Calculation Book and Plans by EOR

Near the completion of the project, it is the responsibility of the Engineer of Record (EOR) that all calculations, details, QC/QA requirements, and all other department requirements are substantially complete. At this stage, the following items are to be verified.

- Confirm that the QC/QA certification has been signed by all responsible parties.
- Confirm that the Geotechnical Engineer has co-stamped the geotechnical design information shown on the bridge plans.
- Confirm that the Hydraulic Engineer has co-stamped the hydraulic information shown on the bridge plans.
- Assemble final Geotechnical Report and Hydraulic Report.
- Finalize calculation book and seal the cover sheet.
- Verify that the names of the designer, design checker, detailer, detail checker, and reviewer are all correctly shown on the title block of each plan sheet.



- Stamp the General Notes sheet. EOR may sign the remaining sheets or designate qualified Professional Engineers to stamp the sheets developed under their supervision.
- Verify that all special provisions are accurately shown on the construction proposal. The special provisions are typically stamped by the Specification Engineer as part of the construction proposal; however, if the Specification Engineer is not qualified or not willing to stamp the special provisions, the EOR must stamp these provisions.

Step 8 – QC/QA for Design Activities after Final Plans

The previously established QC/QA process and procedures are to be utilized for all plan revisions, change orders and addenda.

Step 9 – Archiving Bridge Design Files

The EOR is responsible for archiving all bridge design files including calculation books, plans, special provisions, cost estimate, and other pertinent documents in accordance with the LADOTD records retention policy. It is also the responsibility of the EOR to deliver all bridge design files to the LADOTD Bridge Task Manger no later than 30 calendar days after the stamped final plans are delivered. Any revisions made to these documents due to plan revisions and change orders must be delivered with the signed plan revisions or change order sheets.

Notebook/File

The Design Engineer keeps a binder or folder clearly labeled with the Structure Name, Parish (or County), and State Project Number that contains, but is not limited to the following:

- Request for Qualifications Keep a record of the original advertisement, addendums, Q&A, and the shortlist and award as determined by the Project Evaluation Team.
- Correspondence Correspondence includes emails, memos, or other documents that affect the design of the structure or clarify design requirements.
- Calculations Calculations generated and reviewed in accordance with the Quality Control Program. Calculations
 include hand-written documents, spreadsheets, and output from software. Convert the calculations to PDF for
 archive purposes.
- Details Check Prints and Final Plan Sets generated and reviewed in accordance with the Quality Control Program.
- Any other documents required for design, such as existing plan sheets and review comments.

The Design Engineer documents any changes that occur after the Plan Review, such as Addendum, and post-letting, such as Change Orders and RFIs by including correspondence, calculations, check prints, and details that relate to the change or request in the electronic Notebook/File for the project.



Appendix A QC/QA Certification



Number:

Name:

We, the undersigned designers, detailers, checkers and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for the project. We certify that the work for which we are responsible has been completed in accordance with the current LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	P.E. Reg. #	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotechnical Engineer						
Hydraulic Engineer						
Engineer-of- Record (EOR)						

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 ((NAME MUST MATCH <u>EXACTLY</u> AS REGISTERED WITH LOUISIANA'S SECRETARY OF STATE (SOS): <u>INCLUDING PUNCTUATION, INCLUDE</u> <u>SCREENSHOT(S) FROM SOS AT THE END OF SECTION 20</u>)	Address	Point of Contact and email address	Phone Number
ARCADIS U.S., INC.	6100 CORPORATE BLVD., SUITE 325 BATON ROUGE, LA 70816	Akhil Chauhan, PE, PTOE, PTP, PMP akhil.chauhan@arcadis.com	(225) 368-6563
Forte and Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr., PE, MBA jcoco@forteandtablada.com	(225) 927-9321
Infinity Engineering Consultants, L.L.C.	4001 Division Street Metairie, LA 70002	Raoul V. Chauvin, III, P.E. rchauvin@infinityec.com	(504) 304-0548
C&M Associates, Inc. of Texas	17304 Preston Road, Suite 831A Dallas, TX 75252	Carlos M. Contreras cmcontreras@candm-associates.com	(214) 245-5300 x405
Eustis Engineering L.L.C.	3011 28th Street Metairie, Louisiana 70002	Gwendolyn P. Sanders, P.E. gsanders@eustiseng.com	(504) 834-0157
Ardaman & Associates, Inc.	316 Highlandia Drive, Baton Rouge, LA 70810	Robert Jewell RJewell@ardaman.com	(225) 666-4598
NTB Associates, Inc.	Corporate Headquarters: 525 Louisiana Ave., Shreveport, LA 71101 Branch Office: 8643 Main St., Zachary, LA 70791	Amy K. Schulze aschulze@ntbainc.com	(225) 719-2758
Integrated Logistical Support, INC.	4298 Elysian Fields Avenue, Suite B New Orleans, LA	lam Tucker corporate@ilsiengineering.com	(504) 523-1619
COASTAL ENGINEERING SOLUTIONS, LLC	1664 CHEVELLE DRIVE BATON ROUGE, LA 70806	BRENT DUET brent@coastalengsolutions.com	(225) 953-2546

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. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement. Cary Bourgeois, PE cbourgeois@gecinc.com (225) 612-4121

8282 GOODWOOD BLVD. BATON ROUGE, LOUISIANA



