

Contract for Off System Highway Bridge Program Contract No. 4400025054







Contract for Off System Highway Bridge Program McLin Road Over Darling Creek

Contract No. 4400025054

Statement of Qualifications

Infinity Engineering Consultants, LLC. 4001 Division Street Metairie, LA 70002

P: 504.304.0548 F: 504.355.0265

Raoul V. Chauvin, III, P.E. Principal-in-Charge rchauvin@infinityec.com

November 22, 2022

Infinity Engineering Consultants Letter of Interest

Louisiana Registered Engineering Firm Number

Infinity Engineering Consultants, LLC. EF. 0001309

Office Location

4001 Division Street Metairie, LA 70002 p. (504) 304-0548

Contact Persons



Raoul V. Chauvin, III, P.E. Principal Partner rchauvin@infinityec.com

Department of Transportation & Development Consultant Contracts Services 1201 Capitol Access Road, Room 405-E Baton Rouge, LA 70802 DOTDConsultantAds80@la.gov

> Re: Off System Highway Bridge Program McLin Road Over Darling Creek Contract No. 4400025038

With reference to the above stated project, Infinity Engineering Consultants, LLC is pleased to present our statement of qualifications. Upon thoroughly reading the request for qualifications, we believe Infinity's team of engineers and designers meet and exceed the necessary qualifications to develop the preliminary engineering plans to replace an off-system bridge traversing Darling Creek along McLin Road in Pine Grove, Louisiana.

Firm Qualifications and Understanding of Scope

Infinity Engineering Consultants is a Metairie, Louisiana based firm, located only an hour and half from the proposed bridge site, that provides multi-disciplinary engineering services to both the public and private sectors. As a multi-discipline firm, comprising of civil, structural, mechanical, and electrical engineering, our firm is equipped to provided complete engineering design, from conception to commissioning, on transportation related projects.

Infinity's staff currently includes: (4) Structural Engineers, (6) Civil Engineers, (4) Electrical Engineers, (4) Mechanical Engineers, and (4) Resident Inspectors, all supported by (9) designers and drafters. Despite the recent periods of economic uncertainty, Infinity has been able to steadily expanded the company's staff and resources to better meet our clients' engineering consulting needs.

Across Infinity's 18-year company history, we hold extensive experience working with public agencies in the project manager role of prime consultant. Currently, we are enjoying a collaborative working relationship with the Louisiana Department of Transportation & Development as we are working to complete structural engineering designs for two off-system bridge replacement projects. Additionally, we are approaching the end of the construction phase for one new vehicular bridge at Alvin Calendar Airfield in Belle Chasse, LA. These project experiences make our team uniquely qualified for this project, as we not only hold the experience of designing DOTD off-system bridges, but also designing for the soil conditions found across Louisiana.

Infinity is proud of our reputation as being honest, reliable, and capable. As such, we have provided within our approach and methodology section snippets of reference letters that attest our work ethic. Pertinent resumes and project examples for the entire team are contained in the following DOTD 24-102 form.



William J. Thomassie, P.E. Principal Partner wthomassie@infinityec.com November 21, 2022



We steadfastly confirm the following:

•Infinity Engineering Consultants, LLC. is within good standing

•The proposed team meets all of the minimum personnel requirements

- Raoul V. Chauvin, III, P.E. is Infinity's principal partner who is a registered professional engineer in the State of Louisiana
- William Thomassie, P.E. is Infinity's principal partner who is a registered professional engineer in the State of Louisiana in civil engineering
- Ricardo Contreras, P.E. will serve as the project manager and holds over five years of experience in responsible charge of bridge design as a registered professional engineer in the State of Louisiana
- Matthew Estopinal, PE, PLS is SJB Group's professional land surveyor registered in Louisiana with over five years of experience
- Cory Ricks is ELOS Environmental's environmental professional with at least five years of experience in wetlands delineation
- •The firm holds all licenses necessary to legally provide the related services in the State of Louisiana

•The lead professional for each category is a licensed professional in that area with a minimum of 10 years of experience in the category in which they will be the person in responsible charge.

•Infinity Engineering has not had a record of substandard work

•Infinity Engineering has never engaged in any unethical behavior

• Infinity is a state-certified DBE and Hudson Initiative certificate holder.

Documents Enclosed

•Letter of Interest

•Infinity DOTD 24-102 form

•DBE Certificates

Closing

Infinity takes pride in the skill-sets we have provided to public agencies throughout the State of Louisiana, especially when it comes to rebuilding vital infrastructures within our communities. We our confident that we have a team of engineering that can effectively and efficiently prepare topographic surveys, wetland delineation, and engineering designs for this off-system bridge project. We respectfully request that the LADOTD select Infinity Engineering Consultants for project so we can continue to work to improve our Jefferson Parish community. If you have any questions or require additional information, please call me at (504) 304-0548.

By signing this letter, the Respondent certifies that the signatory is authorized to bind the Respondent and certifies the content of this letter.

Sincerely,

Raoul V. Chauvin, III, P.E. Infinity Engineering Consultants, LLC

(Revised March 1, 2022)

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1.	Contract title as shown in the advertisement	Contract for Off System Highway Bridge Program
2.	Contract number(s) as shown in the advertisement	4400025054
3.	State Project Number(s), if shown in the advertisement	H.015025.5
4.	Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	Infinity Engineering Consultants, LLC.
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.0003109
6.	Prime consultant mailing address	4001 Division Street Metairie, LA 70002
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	Not Applicable
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	Raoul V. Chauvin, III, P.E. Principal rchauvin@infinityec.com 504-304-0548
9.	Name, title, phone number, and email address of the official with signing authority for this proposal	Raoul V. Chauvin, III, P.E. Principal rchauvin@infinityec.com

Page 1 of 65 Prime consultant name: Infinity Engineering, LLC.

	504-304-0548	
 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 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. 11. If a Disadvantaged Business Enterprise (DBE) goal has 	504-304-0548 Signature (shall be the same person as #9): $Maoullaoullaoullaoullaoullaoullaoullaoul$	Firm(s)' %:
response.	Date. 11/21/2022	
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.	<u>Firm(s):</u> Infinity Engineering Consultant, LLC	<u>Firm(s)' %:</u> 65%

12. Past Performance Evaluation Discipline Table:

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

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

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

Evaluation	<u>% of</u>	Infinity	SJB Group,	ELOS		Firm E	Firm F	
Disciplines	Overall	Engineering	LLC.					
_	Contract	Consultants						
Bridge	65%	100%	-	-				
Environmental	15%	-	-	100%				
Survey	10%	-	100%	-				
Right-of-Way	5%	-	100%	-				
Other (SUE)	5%	-	100%	-				
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.								
			_					
Percent of Contract	<u>100%</u>	65%	20%	15%				

13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this	Total number of personnel available in this DOTD Job
		contract	Classification (if needed)
Infinity Engineering Consultants, LLC.	Principal	1	2
	Engineer	4	12
	Engineer Intern	1	5
	Drafter	1	3
	Designer	1	6
	Inspector - Bridge	1	3
	Project Office Manager	1	1
	Administrative	1	6
ELOS Environmental, LLC.	Biologist/Wetlands	2	10
	Environmental Pro	3	11
	Environmental Manager	1	2
	GIS Analyst	2	6
	Archaeologist	1	2
SJB Group, LLC.	Administrative	0	1
	Accountant	0	2
	CADD Drafter	0	1
	CADD-Operator	1	1
	Computer Analysist	0	1
	Engineer	0	2
	Instrument Man	2	2
	Landscape Architect	0	1
	Principal	3	4
	Rodman	2	2
	Senior Technician	4	6
	Supervisor – Eng	0	1
	Supervisor – Other	1	3

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14. Organizational Chart:



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 / certification & number	State of license	License / certification expiration date
1	William J. Thomassie, P.E.	Infinity Engineering Consultants	Professional Engineer: No. 27421	LA	09/30/2023
2	Louis Jackson, P.E.	Infinity Engineering Consultants	Professional Engineer: No. 29314	LA	03/31/2023
2	Cindy Gallo, P.E.	Infinity Engineering Consultants	Professional Engineer: No. 43357	LA	09/30/2023
3	Rachel Kenney, P.E.	Infinity Engineering Consultants	Professional Engineer: No. 37666	LA	09/30/2023
3	Ricardo Contreras, P.E.	Infinity Engineering Consultants	Professional Engineer: No. 28533	LA	09/30/2023
4	Wilfred Barry, P.E., PLS	SJB Group, LLC.	Professional Engineer No: 17452 Professional Land Surveyor No: 0004612	LA	03/31/2024 03/31/2024
4	Matthew Estopinal, P.E., PLS	SJB Group, LLC.	Professional Engineer No: 39151 Professional Land Surveyor No: 0004955	LA	03/31/2023 03/31/2023
4	Charles Tim Brewer, PLS	SJB Group, LLC.	Professional Land Surveyor No: 0005009	LA	09/30/2023
5	Lucas Watkins	ELOS Environmental, LLC	FHWA - NHI course No. 142005, "National Environmental Policy and Transportation Decision Making"	N/A	N/A
5	Jerry Graves	ELOS Environmental, LLC	FHWA - NHI course No. 142005, "National Environmental Policy and Transportation Decision Making"	N/A	N/A
5	Cory Ricks	ELOS Environmental, LLC	U.S. Army Corps of Engineers Wetland Delineation	N/A	N/A
5	Brian Fortson	ELOS Environmental, LLC	U.S. Army Corps of Engineers Wetland Delineation	N/A	N/A

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16. Staff Experience:

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

Firm employed by	Infinity Engineering	g Consultar	nts, LLC.	Meets MPR No. 1			
Name Willia	m J. Thomassie, P.E.		Years of relevant experience with this employer	18			
Title Princip	bal		Years of relevant experience with other employer(s)	12			
Degree(s) / Years / S	pecialization		Bachelor of Science / 1992 / Civil Engineering				
Active registration n	umber / state / expiratio	on date	No. 27421 / LA / 9/30/2023				
Year registered	1997	Discipline	Civil/Structural Engineering				
Contract role(s) / bri	ef description of respon	sibilities	Engineer of Record/Principal-in-Charge As Principal Partner of Infinity Engineering Consultants, William J. P.E. is one of the registered Supervising Professionals for the firm and is for the management of all engineering production. With many of Infinity's requiring up to \$45,000,000 for installation or modifications, 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. Additionally, Mr. Thomassie hold active professional or projects in fifteen states				
Experience dates	Experience and qua	lifications re	elevant to the proposed contract; i.e., "designed drainage", "designed	l girders", "designed			
(mm/yy-mm/yy)	intersection", etc. I	Experience da	ates should cover the time specified in the applicable MPR(s).				
4/2014 – 9/2017	City of New Orleans J Brown Park Bridge. In design also included a	oe Brown Par finity's conditi a load rating.	k Bridge Replacement – Principal engineer for the <mark>design of the complete r</mark> on inspection and bridge rating previously deemed the bridge needed replace	<mark>eplacement of the Joe</mark> ement. The new bridge			
10/2010 – 9/2012	Entergy Evergreen Br approach to Entergy wall/abutment. Desig	r idges – Princi s Evergreen Su ns also include	ipal engineer for the <mark>design of two (2) vehicular bridges</mark> to replace aging ubstation. Provided new bridge designs for steel reinforced piles, decking ar ed a load rating.	timber bridges on the nd reinforced retaining			
4/2020 – 3/2022	4/2020 – 3/2022 Cornerstone Dock Damage Evaluation and Design - Principal for the evaluation of damage caused by a ship collision with a dock a bridge on Cornerstone's site. Oversaw the collection of advanced measurements, including drone imagery, to assess the damage Upon the completion of the surveying, a comprehensive analysis report was provided to Cornerstone, including cost estimation for repairs. Additionally, overseeing the completion of designs to repair dock and bridge.						
3/2019 – Under Construction	Regional Transit Authority Canal Street Ferry Terminal CMAR - Principal for the engineering design of the demolition and redevelopment of the Canal Street Ferry Terminal on the Mississippi River in New Orleans for the RTA. The project includes the construction of a new terminal building, new bridge spanning (2) railroad tracks, reconfiguration of streetcar tracks, realignment of underground utilities, construction of a new wharf structure, and refurbishment and reconfiguration of a captive barge platform.						

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	City of New Orleans Bridge Load Ratings – Principal engineer for the structural analyses and load ratings for fourteen (14) off-system
4/2014 - 2/2015	bridges around the City of New Orleans. The analyses determined that the majority of the bridges met the AASHTO load rating
	requirements, and proscribed remedial repairs or replacement for those that did not pass inspection.
	Scarsdale Bridge Rating – Principal engineer for the engineering analysis and load rating of two bridges at the Plaquemines Parish
3/2012 - 3/2012	Scarsdale Pumping Station. The inspection and analysis of the two (2) 25' wide x 150' timber pile foundation bridges with precast pre-
	stressed concrete decks were necessitated by a load rating for dump trucks using the site.
7/2016 – 9/2017	City of New Orleans Bridge Inspections and Ratings – Principal engineer for the field inspections and bridge load rating calculations of
	five (5) bridges throughout the City of New Orleans as a subconsultant to DEII.
	City of New Orleans Wisner Bridge Inspection – Principal in charge for inspecting, evaluating, and reporting deficiencies in the 3/8-
6/2004 - 12/2004	mile-long Wisner Bridge over I-610. The inspection was completed in accordance with LaDOTD requirements and a plan for
	rehabilitation was prepared.
	Ollie Drainage Pumping Station Expansion and Bridge Design - Principal for the Ollie Drainage District capacity evaluation and design
	project. Project included the evaluation of runoff characteristics for a 3,000-acre basin and the evaluation of the adequacy of an existing
7/2006 – 7/2011	pumping station with 5 pumps. Project Manager for the design of the 600 cfs drainage stormwater pump station addition (\$16,200,000
	total construction cost). Responsible for overall project coordination and design. Supervised all civil and structural designs including
	deep foundations, concrete structures, steel building structures, dredging, vehicular bridges, roads, and canals.
	Mid-City Street Repairs and Repaving – Principal Engineer for the identification and quantification of roadways, driveway aprons,
11/2012 - 3/2021	sidewalks, curbs, and drainage structures repairs. Infinity developed a scoping report including the locations and justification of
	additional repairs for DPW to obtain funding from FEMA.
	City of Slidell Kostmayer Avenue Resurfacing and Drainage Improvements – Lead Project Manager in the drainage design, material
6/2011 - 5/2013	quantities, and cost estimating for the roadway repair and replacement design and all utility improvements. The project included the
	asphalt mill and overlay of 3,300 linear feet of street, including striping, drainage improvements, street alignment and handicap
	sidewalk ramps.
12/2009 - 9/2011	City of New Orleans VA Medical Center Street Reconstruction – Project Manager for the design of 3,000 lf of streets and utilities to
	correct deficiencies and support a new medical center.
3/2009 - 6/2011	Louis Armstrong International Airport North Perimeter Road – Project Manager for N. Perimeter Road at MSY Airport. The project
	includes the design of the new airport utility road extending approximately one mile around the facility.
	Regional Transit Authority Canal Street to UPT Streetcar Expansion – Project Manager for the RTA expansion of the streetcar line,
8/2010 - 1/2013	specifically involving the Loyola Avenue line that will connect Canal Street and the Union Passenger Terminal. Supervised construction
	drawings, record specifications, and identification of utility conflict and design.

Page 8 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm employed	d by 🛛	Infinity Engineering	g Consultar	nts, LLC).	Meets MPR No. 2
Name	Louis J	ackson, P.E.			Years of relevant experience with this employer	4
Title C	Operati	tions & Quality Control Manager			Years of relevant experience with other employer(s)	23
Degree(s) / Ye	ears / Sp	oecialization		Bache	elor of Science / 2001 / Civil Engineering	
Active registra	tion nu	mber / state / expiratio	on date	No. 29	9314 / Louisiana / 03/31/2023	
Year registered	d	2001	Discipline	Civil/S	Structural Engineering	
Contract role(s) / brief description of responsibilities					y Control Manager - Mr. Jackson has more than 25 years of ring design, project management, and quality control experience. His nee has led to expertise in the following areas: Subsurface Jacture; Stormwater Management; Grant and Program Management; tions; Multi-Disciplinary Project Team Leadership. As the Operations & r, Mr. Jackson ensures all designs and deliverables achieve Infinity's high ecient engineering.	MEETS MINIMUM PERSONNEL REQ. Contract QA/QC xpectations of effective
7/19 – Ongo Bidding Pha	oing ase	Magnolia Street Brid support and project of will replace approxim and City of Slidell to e	ge – Operation coordination for nately 60-LF of ensure delivera	ns and Qu or the <mark>rep</mark> f existing ables wer	uality Control Manager for the replacement of Magnolia Street Bridg <mark>placement of the existing bridge</mark> with a 2-4-ft x 6-ft reinforced alum roadway and guardrails on each side of the roadway. Acted as lia re received in a timely manner and were effective in their design.	ge. Provided technical inum box culvert and ison between Infinity
4/19 – 3/2	B - 3/21 Ridgelake Drive Drainage Improvements - Operations and Quality Control Manager for the engineering and design services for drainage improvements on Ridgelake Drive, including subsurface drainage, new 54-inch outfall, and lateral drainage connections. Provided design oversight as well as acted as liaison between Infinity and Jefferson Parish to ensure designs effectively met the goals of the score of design					
8/19 - Pres	Canal Street Ferry Terminal CMAR - Operations and Quality Control Manager for the development of the design most cost-effective design to build a new pedestrian ferry terminal. Ensured designs satisfy project and grant requirements. The project includes designs for a new steel pile supported wharf, steel framed terminal building, and two steel framed towers connected by a prefabricated two steel truss bridges spanning over railroad tracks.					
11/19 - Pres	11/19 - Present St. Roch North Roadway Repairs - Operations and Quality Control Manager for the of designing of the complete street replacement in the St. Roch neighborhood. The project required replacement of roadways, sidewalks, and driveways with the addition of ADA compliant ramps. Oversaw detailed budget and contract negotiations with the City of New of New Orleans. Additionally, ensured timely delivery and effectiveness of engineering of designs.					
3/12 – 5/1	13	City of New Orleans Responsibilities includ of project aspects, inc	Drainage Ma ded developm cluding comm	aster Pla ent of a c unication	n - Project Manager for the \$2M City of New Orleans Drainage detailed budget and creation of a <mark>detailed project work plan</mark> which a as and coordination of efforts and quality management.	Master Plan Project. ddressed a multitude

Firm employed by	nfinity Engineering	g Consultan	nts, LLC.		Meets MPR No. 3		
Name Rachel	Kenney, P.E.			Years of relevant experience with this employer	13		
Title Chief En	igineer			Years of relevant experience with other employer(s)	7		
Degree(s) / Years / Spe	ecialization		Bachelo	or of Science / 2001 / Civil Engineering			
Active registration num	nber / state / expiratio	n date	No. 376	66 / Louisiana / 09/30/2023			
Year registered	2013	Discipline	Civil/Str	uctural Engineering			
Contract role(s) / brief	description of respon	sibilities	Senior I	Bridge Designer & Checker - As Infinity's Chief Engineer N	ls.		
			Kenney is	responsible for overseeing all engineering projects for the firm. N	As. MINIMUM		
			Kenney br	ings over twenty years of structural design and civil design engineeri			
			experience	e to the role. I hroughout her career, Ms. Kenny has used her expertise	to REQ.		
			municipali	nd design a wide variety of structural projects, including bridg ty buildings pumping stations oil and gas facilities and wastewater tre	es,		
	Omega Refining Barge	e Dock and Ve	hicular Brid	Ige - Project Engineer for the design engineering for a new barge	loading dock on the		
1/2016 1/2018	Mississippi. Project in	cluded the st	ructural de	sign of the steel dock framing and decking, the 225' pile suppor	ted, <mark>steel vehicular</mark>		
	bridge, a hydraulic cra	ane, 500' of pi	perack, and	d product piping from the facility to the dock, and electrical switc	hgear and lighting.		
2/2019 Dresent	Port Ship Service New	Dock Design -	- Managed	project team to design relocated dock facility. The new dock desig	gn included a USACE		
3/2018 - Present	levee crossing leading to an elevated platform as well as a 30' vehicular bridge with slope stabilization to the bank. Capture piles						
	were provided for the relocated barge dock. Oversaw all pre-construction analysis and provided cost estimates.						
	RTA Canal Street Fer	ry Terminal Cl	MAR - Man	naged a multidisciplined team of designers working with the Ow	ner's Contractor to		
	determine the most cost-effective design that would satisfy project and grant requirements. The project included: a steel pile						
3/2019 – Present	supported wharf with	concrete bea	ams and ho	blow core concrete panels; a timber pile supported, steel frame	d terminal building;		
Under Construction	two steel framed stair/elevator towers connected by a prefabricated steel truss bridge spanning (2) railroad tracks; prefabricated						
	100° gangways; design of a half grand union with catenary system; captive barge dock; and temporary berth with steel platform						
	INTT Coismar Dack	e barge dock.	toom of St	tructural Machanical and Electrical angineers to complete the d	osign of a naw chin		
	and harge dock inclu	iding a <mark>new br</mark>	ridge conne	ecting the new and existing dock. Performed structural design of	of 60"-72" diameter		
2/16 – 3/2021	ship and barge breasting monopiles, a 40'x80' steel platform supporting a 40'x20'x100' tall steel framed bose tower. 760' of						
	piperack, and associated walkways, stairs, and auxiliary structures.						
	I-10 Overpass Inspect	ion - Performe	ed the traff	ic control and the pre and post inspection of Interstate 10 overpa	uss and ramps in the		
6/2012 - 8/2012	vicinity of the Pallas Hotel Implosion. Reviewed LADOTD reports, established bent numbering in the field, performed pre and post						
	inspections of deck surfaces and structures.						
	City of New Orleans	Nisner Bridge	Inspection	- Responsible for inspecting, evaluating, and reporting deficience	<mark>cies in the 3/8-mile-</mark>		
	long Wisner Bridge over I-610. The inspection was completed in accordance with LaDOTD requirements and a plan for rehabilitation						
6/2004 –12/2004	was prepared.						

Firm employed by	Firm employed by Infinity Engineering Consultants, LLC. Meets MPR No. 3							
Name Ricard	o Contreras, P.E.		Years of relevant experience with this employer	5				
Title Civil/St	ructural Engineering	Manager	Years of relevant experience with other employer(s)	21				
Degree(s) / Years / Sp	ecialization	Ŭ	Bachelor of Science / 1994 / Civil Engineering	_				
Active registration nu	mber / state / expiratio	on date	No. 28533 / LA / 9/30/2023					
Year registered	1999	Discipline	Civil Engineering					
Contract role(s) / bries	f description of respon	sibilities	Project Manager and Roadway Design – With over 26 years	of civil				
			engineering and project management experience, Ricardo Contreras, P.E. brir	gs the				
			following relevant specialties to this project: roadway design, infrastr	ucture				
			assessment, multi-model complete street design, and roadway drainage design.	REQ.				
12/2015 _ 9/2017	Joe Brown Park Brid	ge Rehabilitati	on – Responsible for construction management of project. Duties inclu	ded overseeing and				
12/2013 - 5/2017	managing construction	on progress and	d schedules, submittal reviews, review and approval of invoices, and proje	<mark>ct closeout.</mark>				
	Magnolia Street Brid	ge Replaceme	nt – Civil Engineer responsible for site civil design and overall project o	levelopment for the				
7/2019 – Present	drainage improveme	drainage improvements and <mark>replacement of the existing bridge</mark> on South Magnolia Street. The design tasks included the						
	specification of an alu	ıminum box cเ	lvert, the design of asphalt roadway replacement, and civil site design					
	Shintech Water Intak	Shintech Water Intake Platform and Vehicular Bridge - Provided technical assistance for the design of a new water intake platform						
2/2021 – 2/2023 (Est)	at plant. The platform consists of a multi-disciplinary design with coordination between Infinity's civil, structural, mechanical, and							
_, (,	electrical teams. Responsible for the design of a heavy equipment concrete bridge to connect from the levee to the new platform.							
	Additionally, project of	called for desig	ns of the roadway for vehicular levee crossing.					
	Savanne Road DOTD	Off-System Br	idge Replacement - Provided technical assistance for the replacement of	an off-system bridge				
5/2021 - Present	along Savanne Road crossing over Hanson Canal. Oversaw all structural/civil engineering designs for the bridge replacement as well							
	as coordinated with land surveying and environmental service sub consultants.							
	Alvin Calender Airfiel	d Vehicular Br	idge - Provided technical assistance for the establishment of a <mark>new vehi</mark>	<mark>cular bridge</mark> that will				
3/2020 – Under	span across a drainage canal that parallels Barrier Road. Upon completion, this bridge will be approximately 50 feet wide by 160							
Construction	feet in length and wil	l include appro	ach spans at both ends. Designs call for the bridge to uniformly elevated t	o span the canal and				
	align with target grad	les, which is sli	ghtly higher than existing ground surfaces.					
_ /	LaDOTD Peters Road On and Off Ramps For the Westbank Expressway – Responsible for stage "0" feasibility study, prepared							
8/2001 – 10/2005	preliminary plans for new on and off ramps for Peters Road and the Harvey tunnel traffic, including relocation of existing on and off							
	ramps to the Westba	nk Expressway	and incidental roadway realignment.					
	West Metairie Avenu	e Rehabilitatio	n and Canal Stabilization - Roadway and drainage improvements work inclu	ded the removal and				
11/2016 – Under	replacement of con	crete paving p	panels and the repair and adjustment of select drainage outfalls, and	implementation of				
Construction	stabilization measure	es to the emba	nkments of the canal. Responsible for overall design, preparation of plar	s and specifications,				
	provided cost estimation	tion and coord	inated all aspects of the project.					

Firm employed by	nfinity Engineering	g Consultan	ts, LLC		Meets MPR No. 2			
Name Cindy G	dy Gallo, P.E.			Years of relevant experience with this employer	8			
Title Project	Delivery Manager/Structural Engi			Years of relevant experience with other employer(s)	0			
Degree(s) / Years / Spe	ecialization		Bache	lor of Science / 2015 / Civil Engineering				
Active registration nur	nber / state / expiratio	on date	No. 43	357 / LA / 09/30/2023				
Year registered	2019	Discipline	Civil/S	Structural Engineering				
Contract role(s) / brief	description of respon	nsibilities	Projec	t Delivery Manager/Structural Engineer - As Project De	elivery MEETS			
			Manage	er, Ms. Gallo leads Infinity's project management discipline, focusi				
			effectiv	e project completion and exceptional client satisfaction. Ms. Gallo	brings			
			over ei	ght years of experience in project management and civil/structur	ral and			
			marine	engineering design to this client-focused role., Ms. Gallo's stru	ictural engineering			
			expertis	se has been lent to a diverse set of project types including maritime,	, bridge, and facility			
	Magnolia Street Bride	To Poplacomon	designs	et Manager and Engineer of Peccerd for the detailed design for drain	and improvements			
	and the replacement	of the existing	hridge	on South Magnolia Street. The design tasks included the specificati	on of an aluminum			
7/2019 – Present	box culvert, the desig	n of asphalt ro	adway re	placement, and civil site design. Led Infinity's efforts in the preparat	tion of construction			
	documents, coordinated with design team and manufacturer representative.							
	City of New Orleans J	oe Brown Park	ehabilitation – Project Manager responsible for organizing the prepa	aration and delivery				
	of a construction dra	of a construction drawing and specification package, coordinating with the Owner and the Department of Parks and Parkways, and						
2/2018 – 10/2018	scheduling all design progress meetings. She was on the structural team that prepared the design for the new bridge and							
	foundation. This project consisted of civil, structural, and electrical design for the removal and replacement of an existing vehicular							
	bridge deemed to be	in poor condit	ion.					
	City of New Orleans	Bridge Inspecti	ons and	Load Ratings - Project manager of a team responsible for performi	ng <mark>field inspections</mark>			
2/2015 – 10/2017	and load rating calculations on a total of twelve bridges. Performed superstructure and substructure calculations using the							
	AASHIOWARE bruge rating soluware (brr, vo.o), WOVLOADS, and RAW Elements in combination with hand calculations.							
	Regional Transit Aut	ority Canal St	reet Ferr	v Terminal CMAR – Part of the team responsible for the preparat	ion of construction			
3/2019 – Under	drawing and specific	cation package	related	to the installation of new terminal building, wharf structures	, and new bridge.			
Construction	Coordinated with the	project lead, t	he Owne	er, and the architect to ensure the client's needs were addressed.	,			
	Shintech Water Intak	e Platform and	Vehicula	r Bridge - Project Manager of the engineering team responsible for	the civil, structural,			
	mechanical, electrica	l and instrume	ntation d	lesigns of a new river water intake platform. Project components ir	ncluded performing			
2/2021 – 2/2023 (Est)	topographic and hyd	rographic surve	eys, as we	ell as the design of the concrete intake platform and <mark>vehicular acces</mark>	ss bridge supported			
	by steel pilings/subst	<mark>ructures</mark> , levee	crossing	and modifications, piping layouts, pipe support design, hydraulic a	nalyses, and power			
	and instrumentation	as required for	the plat	form.				

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Firm employ	firm employed by Infinity Engineering Consultants, LLC.							
Name	Robert I	Haydel			Years of relevant experience with this employer	2		
Title	Project (Civil Engineer			Years of relevant experience with other employer(s)	13		
Degree(s) / Y	Years / Spe	ecialization		Bache	elor of Science / 2005 / Physics			
	_			Maste	r of Science /2007 / Civil Engineering			
Active regist	tration nun	nber / state / expiratio	on date	N/A	× ×			
Year register	red	N/A	Discipline	Civil E	ngineering			
Contract role((s) / brief de	escription of responsibi	lities	Hydrau	Ilics & Hydrology/Civil Engineering Roadway Design - Civil Project	ct Engineer Roadway		
				and Dra	inage Design - With over 15 years of civil engineering experience, Robe	rt Haydel brings the		
				followin	g relevant specialties to this project: roadway design, infrastructure asses	ssment, storm water		
		Severne Read Off Su	tom Bridge B	system	design, and urban <mark>hydraulics and hydrology</mark> modeling.	rn for a 2 Snan (O		
E/2021 D	Procont	fact long reinforced	stem bridge K		ent – Task leader of the drainage evaluation, calculations, and designs shifting included developing a HEC PAS model to complete a budy	3n for a 5 Span 60-		
J/2021 - F	resent	analysis of the project site. Developed the hydraulic report to fulfill ADOTD requirements for bridge replacement						
		North River Road Off-System Bridge Replacement – Task leader of the drainage evaluation, calculations, and design for a 3 Span 60-						
7/2021 - P	resent	foot-long reinforced	concrete bridg	e. Respo	Responsibilities included developing a HEC RAS model to complete a hydraulics & hydralogy			
,,2021	lesent	analysis of the project site. Developed the hydraulic report to fulfill LADOTD requirements for bridge replacement.						
		Dupre and S. Gayos	Dupre and S. Gavoso Street Improvements – Utilizing green infrastructure systems, responsible for developing new drainage					
1 2017 4	April 2019	conveyance and retention technologies to retain a ten-year storm event. Designed the pavement structures (asphalt roadway,						
Jan. 2017 - A		porous concrete, sidewalks, driveways, ADA ramps) and managed the design of the sewer and water systems. This project is being						
		used as a model for g	reen infrastru	cture sta	ndards for improvements throughout the City of New Orleans.			
		DPS 01 Watershed Drainage Upgrades and Green Infrastructure - Designed drainage conveyance and retention improvements,						
Feb 2015 - F)ec 2016	<mark>coordinated permitting design requirements</mark> , and designed bi-directional bike lanes. Completed multiple full roadway						
100.2010 1	2010	reconstruction designs (pavement, drainage, water, sewer) while introducing new stormwater management practices and						
		enhanced pedestrian and cycle traffic.						
		St. Roch North Roadway Repairs – Project Manager responsible for leading a team in designing the complete street replacement in						
10/201	19 -	the St. Roch neighborhood. The project required replacement of roadways, sidewalks, and driveways with the addition of ADA						
Prese	nt	compliant ramps. Designs included roadway gradients to create positive cross-sectional and longitudinal drainage. Hydraulic						
		design/analysis was a	iso required to	or draina	ge system design.	dovelop o SW/MM		
Sant 2009	July 2010	model of the drainer		– As part	identified areas susceptible to a 10 year storm event and identified	, develop a SWIVIVI		
3ept 2008 - J	July 2010	improve the conveyor	se system. Ini	s mouel	nuentineu areas susceptible to a 10-year storm event and identifi	eu aujustments to		
		improve the conveya		ater at S				

Page 13 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm employed by Infinity Engineering Consultants, LLC.									
Name	Michael	Riviere, E.I.			Years of relevant experience with this employer	11			
Title	Project (Civil Engineer			Years of relevant experience with other employer(s)	16			
Degree(s) / Y	ears / Spe	ecialization		Bache	Bachelor of Science / 1988 / Physics				
Active regist	ration nun	nber / state / expiratio	n date	E.I. 00	13329 / LA / 9/30/2023				
Year register	ed	1989	Discipline	Civil E	ngineering				
Contract role	(s) / brief	description of respon	sibilities	Constru	uction Engineer- As Infinity's Civil/Structural Construction Engineer, Mr. R	iviere has experience			
				in inspe	ction, design, construction and repair of roads, bridges, and port facilities	s. Relevant Expertise			
				Includes	s: bridge design, traffic flow access management, multi-model complete	street design, green			
		Ulumiana Ida Damas	. Drides Ass	infrastru	ucture, adding roadway capacity.				
10/2021 1	0/2022	Hurricane Ida Damag	se Bridge Asse		s - Performed storm damage assessments of 12 off-system bridg	ses and 18 culvert			
10/2021 - 1	10/2022	Individual reports with	h nhotogranhs	age. Eac	ompleted and submitted to the Parish Officials	n relateu uaniage.			
		I-10 Overnass Inspect	ion – Project I	Engineer	responsible for performing the pre-and post inspection of Interstat	te 10 overnass and			
6/2012-8	/2012	ramps in the vicinity of	of the Pallas H	atel Implosion, Reviewed I ADOTD reports, established bent numbering in the field, performed					
0,2012 0,	2012	pre and post inspection	ons of deck su	faces and structures, and documented a written and digital report.					
		City of New Orleans B	ridge Inspectio	ion and Ratings – Project Engineer for local bridge inspection and load rating project. Assembled					
8/2016 -6	/2017	the final load rating reports to include the inspection forms, photos, and calculations for Infinity's submittal. This project consisted							
		of performing a <mark>condi</mark>	tion inspectio	n and eva	aluation of twelve (12) bridges around the City of New Orleans.				
		Phases 1, 2 & 3 Screer	ning of Scour S	Susceptible Bridges for LADOTD - Phase 1 – performed preliminary analysis on 589 bridges using					
		the state's criteria to prioritize the structures requiring additional study in Phase 2. In Phase 2, performed site inspections on each							
3/2005-3	/2009	bridge to gather data necessary for hydrologic and hydraulic analysis. Hydraulic modeling program WSPRO and HEC-18 were used							
5/2005 5/	2005	to determine the anti	cipated scour	depths a	nd to compare with the existing bridge foundations to determine if	the bridge is scour			
		critical. Additionally,	prepared rep	orts on t	he findings. In Phase 3, performed structural load calculations on t	the critical piers to			
		determine required p	ile capacity.						
2/2022 42	12222	Army Corps of Engineers Vicksburg District Bridge Replacement – As QC/QA System Manager and Project Engineer, supervised all							
2/2003-10/2003 work on the replacement of a 360'				swing s	pan with a 306' vertical lift bridge for the Union Pacific R.R. as pa	rt of the Red River			
		Waterway Improvement Program in Alexandria, LA.							
2/2000 42	12000	U.S. HWY 67 Relocation, Craighead and Lawrence County, Arkansas for AHTD – Responsible for design of bridge decks,							
2/2009-12	/2009	concrete approach	slabs and ty	/pe_spec	cial approach gutters and elastomeric bearings in accordan	ice with AASHTO			
		specifications. Also	performed s	tructura	I quantity takeoffs.				
2/2010-9	/2011	I-69 Connector, Linco	oin, Jefferson	and Clev	veland Counties, Arkansas for AHTD – Performed <mark>bridge layout,</mark>	sub-structural and			
2,2010 3,2011		structural design using	g Merlin-Dash	and RC F	Pier programs.				

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Firm employed by Infinity Engineering Consultants, LLC.									
Name Kevin Hurtt,	E.I.	Y	ears of relevant experience with this employer	2					
Title Project Civil E	ingineer	Y	ears of relevant experience with other employer(s)	5					
Degree(s) / Years / Spec	ialization		Bachelor of Science / 2001 / Civil Engineering						
Active registration numb	er / state / expiration	date	E.I. 0034403 / LA / 9/30/2024						
Year registered	2020	Discipline	Civil Engineering						
Contract role(s) / brief d	escription of responsi	bilities							
	Shintech Water Intak	e Platform and V	ehicular Bridge - Designed a vehicular bridge with attached pipe rack to	access a proposed					
2/2021 2/2022 (Eat)	water intake platform	in the Mississip	pi river. The bridge was designed to accommodate a 41,000 lb. crane wit	h a 30,000 lb. load					
2/2021 – 2/2023 (ESI)	or HL-93 loading. The	pipe rack was o	designed to support a thirty-inch water line, miscellaneous smaller pipe	s, and three cable					
	trays. The design was	completed using	g RISA-3D software.						
	Savanne Road Off-Sys	stem Bridge Rep	lacement – Project engineer for the <mark>replacement of the Savanne Road</mark>	off-system bridge					
5/2021 - Present	crossing over Hanso	n Canal. Provid	ed structural/civil engineering designs for the bridge replacement a	is well as project					
management responsibilities during final design phase.									
	Cornerstone Ship Berth and Vehicular Bridge Design Repairs - Assisted in repair of Cornerstone's berth on the Mississippi after an								
	alision that destroyed a caisson supporting a hose tower and damaged a vehicle access bridge. Responsibilities included designing								
4/2020 – 3/2022	a control room support structure cantilevered off an existing structure and a vehicle bridge to replace the damaged portion. The								
	project required close	coordination w	ordination with mechanical and electrical engineering disciplines. Design was completed using Bentley's						
	RAM Elements softwa	re, Tension Tech	nnology International's Optimoor software, and traditional hand calculation	ions.					
	Lakeshore Group C S	treet Reconstru	ction – Assessed existing drainage conditions and <mark>designed new pipe</mark>	<mark>layout to improve</mark>					
7/2020 - Present	drainage and meet current Orleans parish requirements. Assessed existing street and sidewalk conditions and made								
	recommendations for repair or replacement.								
12/2018 6/2022	Whitney Avenue Bike	Lane – Assisted	I in the design of a two-way bike lane including the repurposing of exis	ting vehicle lanes,					
12/2010 - 0/2022	conversion of existing	sidewalks, and	construction of a median path. Prepared cost estimates and designed lar	ie striping.					
	VAA Marine Dock Pee	r Review – Assis	ted in reviewing and assessing construction drawings for a marine dock d	lesigned by VAA to					
11/2020 0/2021	be constructed on th	e Mississippi riv	er. The proposed dock included barge and ship berthing and unloading	equipment. Tasks					
11/2020 - 9/2021	included reviewing drawings for accuracy and consistency and checking barge berthing assumptions and calculations. The								
proposed barge beathing structure was also analyzed using Bentley's RAM Elements software.									
Plaquemines Parish Harbor of Refuge - Assisted in design of improvement to an existing harbor facility. Tasks include									
7/2019 - Under	column base plates a	nd a structure t	o house oil disposal containers. The structure included a reinforced co	ncrete slab, a spill					
Construction	control and seconda	ry containment	wall, and a roof. Design was completed using Bentley's RAM Eleme	ents software and					
	traditional hand calcu	lations.							

Firm employe	d by	SJB Group, LLC							
Name	Wilfre	ed Barry, PE, PLS			Years of relevant experience with this employer	47	The second		
Title /	Princi	ipal-in-Charge			Years of relevant experience with other employer(s)	1	NO.		
Degree(s) / Ye	ears /	Specialization		Bachelor of S	Science / 1974 / Civil Engineering				
				Louisiana Sta	ouisiana State University				
Active registra	ation	number / state / expira	tion date	PE.0017452	/ Louisiana / 03.31.2024				
Year registere	d	1978	Discipline	Civil Enginee	ring				
Active registra	ation	number / state / expira	tion date	PLS.0004612	/ Louisiana / 03.31.2024				
Year registere	d	1989	Discipline	Land Surveyi	ng				
Contract role(s) / brief description of responsibilities			onsibilities	Principal-in-Cha and will serve a management o and private aut transfer. Mr. Ba	arge. Mr. Barry has over forty-five years of experience in the engine as Principal-in-Charge for SJB Group on this project. Mr. Barry is active f the firm's Surveying, SUE and Engineering services, which require d thorities regulating land use and zoning, development activities, an arry fulfills MPR 4 for this contract.	eering a vely eng aily inte d prope	nd surveying fields aged in the overall raction with parish rty ownership and		
Experience date	es	Experience and qualification	tions relevant	to the propose	d contract; <i>i.e.</i> , "designed drainage", "designed girders", "des	igned iı	ntersection", etc.		
(mm/yy–mm/y	ry)	Experience dates should	cover the tim	e specified in t	he applicable MPR(s).				
11/21 – 03/2	2	LA 30 Roundabouts Subs Principal-in-Charge / SUE all utilities owned by the Level A services, extensiv utilities was critical to alle area.	Eurface Utility Engineer. SJB City of Gonzal e Quality Level eviate disruptic	Investigation (Group perforn les and the pro D records rese ons to utility ser	Tanger Mail and I-10) – City-Parish Project No. 20-2057 ned ASCE 38-02 Quality Level A SUE and utility surveying to ide posed LA 30 Roundabouts at Tanger Mall and I-10 in Ascension arch was completed to aid in the subsequent SUE design. The a vices and conflicts and delays to the construction of the project	entify u n Parish ccurate in this h	tility conflicts for n. Prior to Quality location of these neavily congested		
10/21 – 03/2	22	Purpera Avenue Drainage Improvements Principal-in-Charge / SUE Engineer. SJB Group provided a topographic survey and Subsurface Utility Engineering designating (Quality Level B) and locating services (Quality level A) in accordance with ASCE 38-02 for all utilities owned by the City of Gonzales. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. The overall efforts established an extensive topographic survey and Quality Level B map with Quality Level A information throughout the project corridor. The accurate location of these utilities was critical to allow for the proper design of the drainage system							
05/21 - 10/2	21	MovEBR Jefferson at Corporate Intersection – City-Parish Project No. 20-CP-HC-0034 Principal-in-Charge / SUE Engineer. SJB Group performed a topographic survey, property survey, Right- of-Way maps, and Quality Level C and Quality Level B SUE services for all utilities of the Jefferson Hwy and Bluebonnet intersection as a sub-consultant to Buchart Horn. Prior to Quality Level B and C services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. The accurate location of these utilities is of the utmost importance for successful design and construction of this roadway project. Hooper Road Widening (LA 3034 – LA 37) - LA DOTD Project No. H 009300 5							

408 in East Baton Rouge Parish, LA. The topographic survey was an update to a survey done previously by SJB and included loca	ting and
verifying all changes to the one mile site since the previous survey was completed in 2014. An updated drainage map was also comp	eted for
this project. ASCE 38-02 Quality Level B was completed for the entire project corridor. Prior to Quality Level B services, extensive Qua	ity Level
D records research was completed to aid in the subsequent SUE design.	
MovEBR Nicholson Segment 2 – City-Parish Project No. 20-CP-HC-0032	
Principal-in-Charge. SJB Group was tasked to provide topographic survey, scanning, property and right-of-way survey, and ASCE 38-0	Quality
03/21 – 05/22 Level B and C subsurface utility engineering by City-Parish for the MovEBR project on Nicholson Rd. in East Baton Rouge Parish, LA. T	is effort
required detailed record research, field investigations and data management. The accurate location of these utilities is critical for the	ultimate
design and construction of the project.	
LA 23: Belle Chasse Bridge & Tunnel HBI – LA DOTD Project No. H.004791.5	
Principal-in-Charge / SUE Engineer. SJB Group performed SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the Internet SUE services for the design of a new bridge and tunnel crossing the design of a new bridge and tunnel crossing the design of a new bridge and tunnel crossing the design of a new bridge and tunnel crossing the design of a new bridge and tunnel crossing the design of a new bridge and tunnel crossi	acoastal
Canal along LA 23 in Plaquemines Parish. This project required ASCE 38-02 Quality Level A and B services. Prior to Quality Level	A and B
11/17 – 08/18 services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. After compiling the Qualit	Level B
map, the Quality Level A scope of the project was started in an effort to establish exact location and elevations on critical utility system	ns found
in the Quality Level B mapping. The overall efforts established an extensive Quality Level B map with Quality Level A information the	oughout
the project corridor.	
Ford Street Extension – LA DOTD Project No. H.011310	
Principal-in-Charge / SUE Engineer. SJB Group performed subsurface utility engineering for a topographic survey to extend Ford Str	et from
10/17 – 02/18 Plank Road to Howell Blvd. This project required ASCE 38-02 Quality Level B services throughout the project limits and ASCE 38-02	Quality
Level A services for all utility lines greater than 4" in diameter. SJB designated 13,000 linear feet of subsurface utilities and perform	ed 9 test
holes. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SU	design.
The overall efforts established an extensive Quality Level B map with Quality Level A information throughout the project corridor.	
Central SSO-PS 42 Force Main Construction – Project No. 10-FM-MS-0036A	
04/15 – 09/15 Principal-in-Charge / SUE Engineer. SJB Group performed topographic surveying, property surveying, right-of-way maps, and SUE tas	s on the
Central Consolidation PS 42 Force Main Project for East Baton Rouge Parish. SJB provided ASCE 38-02 Quality Level A services. Prior t	Quality
Level A services, extensive Quality Level D records research was completed to aid in the subsequent SUE design.	

Firm employed by SJB Group, LLC										
Name	Matth	ew Estopinal, PE, PLS			Years of relevant experience with this employer	1.5				
Title	Chi <mark>ef</mark> C	perating Officer / Surv	ey Departme	nt Manager	Years of relevant experience with other employer(s)	15	1251			
Degree(s) / Years / Specialization				Bachelor of S	achelor of Science / 2009 / Civil Engineering					
				Louisiana Sta	ate University					
Active registra	ation n	umber / state / expira	tion date	PE.0039151	2E.0039151 / Louisiana / 03.31.2023					
Year registere	d	2014	Discipline	Civil Enginee	ring					
Active registra	ation n	umber / state / expira	tion date	PLS.0004955	/ Louisiana / 03.31.2023					
Year registere	d	2006	Discipline	Land Surveyi	ng					
Contract role(s) / brief description of responsibilities				Survey Project Surveyor in the experience incl municipal, and all field inspect familiar with C requirements.	Manager. Mr. Estopinal has more than fifteen years of experien e state of Louisiana on transportation and community development udes ALTA surveys, boundary surveys, topographic surveys, and Rig private clients. His duties include coordination of staff, responsible ch ions and the preparation of detailed construction plans on all types City-Parish and LA DOTD procedures, manuals, and software prog Mr. Estopinal fulfills MPR 4 for this contract.	ce as a related ht-of-V arge of of wor grams	Professional Land projects. His work Vay maps for state, all plan production, rk. He is thoroughly with respect to all			
Experience da	ites	Experience and qualif	fications rele	vant to the p	proposed contract; <i>i.e.</i> , "designed drainage", "designe	d gird	ers", "designed			
(mm/yy–mm/	/yy) i	intersection", etc. Exp	erience date	s should cove	r the time specified in the applicable MPR(s).					
		LA 385: Ryan Street Inte	rsection Impro	vements – LA	DOTD Project No. H.012685.5					
03/22 – Ongo	ing	Project Manager. A topo	graphic survey	was required in	n Calcasieu Parish, Louisiana near the intersection of I-210 and	LA 385	(Ryan Street) and			
		near the campus of McN	eese State Uni	versity. The sur	vey included all utilities with depths and all drainage, along wi	th finis	h floor elevations			
		of all buildings that fell w	vithin the surve	POTD Project	otal linear distance is approximately 2.67 miles.					
02/22 – 06/2	22	Project Manager / QA/Q at the intersection of LA elevations of all buildings	C. LA DOTD ta: 39 (N. Claiborr s within the su	sked SJB Group e Ave.) and LA rvey limits. The	to perform a topographic survey in Orleans Parish, Louisiana. 46 (Elysian Fields Ave.), and included all utilities with depths, c project had a total linear distance of approximately 3,600 feet	The su Irainag	urvey was located ;e, and finish floor			
11/21 – 12/2	12/21 Conway Development Topographic Survey for Novus Reb Engineering 12/21 Project Manager. This project consisted of performing a topographic survey of a tract in the Conway development and is limited to running cross-sections through the topo limits. Shots were taken with the use of a robotic total station and 360d prism mounted on a closed cab UTV. Horizontal and vertical control was established at the site with Leica SmartNET RTN.						imited to running a closed cab UTV.			
07/21 – 02/22 UP RR Corridor (Plaquemine) – LA DOTD Project No. H.012851 07/21 – 02/22 Project Manager / QA/QC. SJB Group performed a complete topographic survey including all utilities, depths and drainage, along with fin floor elevations of all buildings that fell within the survey limits at the intersection of LA 1 and Bayou Rd., and the intersection of Bellevi Dr. and Railroad Ave. 03/21 – 05/22 MovERP Nicholson Segment 2 – City Parish Project No. 20-CP, HC-0032							, along with finish ction of Belleview			
03/21-05/2	21 – 05/22 MovEBR Nicholson Segment 2 – City-Parish Project No. 20-CP-HC-0032									

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	Survey Project Manager. A topographic survey with scanning, property and right-of-way survey, and subsurface utility engineering were
	completed by SJB Group for this project.
	Rural Bridge Replacement Initiative - LA DOTD Contract No. 44-17597
07/20 - Ongoing	Project Manager. Topographic surveys, right-of-way mapping, and road design performed for the proposed 33 bridge replacements for LA
	DOTD Districts 03, 07, 61, and 62 as a Sub-consultant. Each site required a complete topographic survey of the project limits, as well as a
	complete inventory for each drainage structure (type, size, length, and invert), and cross sections of all drainage ways.
	St. Francisville Sewer Treatment Plant, Pump Stations, and Force Mains
03/20 - 12/21	Project Manager. The project includes a topographic survey and boundary and servitude maps for the force main route (approximately 8,000
	linear feet), pump station, and treatment plant site.
	I-49 Lake Charles – LA DOTD Project No. H.004273.5
01/18 - 12/18	Liaison/Coordinator. This project required topographic and property/Right-of-Way surveying maps for the proposed I-49 improvements in
	Lafayette. While working for Stantec, Mr. Estopinal served as in-house coordinator and liaison between Stantec and sub-contractor firms
	performing the surveying work on the project.
	Water Campus in Downtown Baton Rouge
05/16 - 12/19	Project Manager. A topographic survey and drainage design were completed for the Water Campus location in downtown Baton Rouge.
	Project included rehabbing five existing roads (Arches St, Aztec St, Gila St, Oklahoma St and Terrace Ave) and addition of the new Water St.
	Project progressed from survey to design to construction stakeout and construction administration.
	Various Community Development Projects in Louisiana
09/95 – Ongoing	Surveyor of Record/Project Manager/Party Chief. These projects included the topographic & boundary surveys of parent tracts, resubdivisions
	and Final Plat mapping dedicating new lots of records and Right-of-Ways for development projects, located primarily in southeastern parts of
	the State. Additionally work included the resurvey, resubdivision or combination of lots for non-development properties or commercial
	outparcels.

Firm employed by	nployed by SJB Group, LLC									
Name Elvis Nguy	/en			Years of relevant experience with this employer	7	(35)				
Title Field Crew	/ Coordinator			Years of relevant experience with other employer(s)	6					
Degree(s) / Years /	Specialization		N/A							
Active registration I	number / state / ex	piration date	N/A	N/A						
Year registered	N/A	Discipline	N/A							
Contract role(s) / br responsibilities	rief description of		Senior Surve has lead fiel throughout topographic Nguyen was	ey Technician. Mr. Nguyen has more than thirteen years of experience Id crews in performing boundary, topographic, right-of-way, and o the State of Louisiana and is capable of leading a crew in remo and right-of-way map requirements of the EBR Department of Pul recently promoted within SJB Group to Field Crew Coordinator and v	in the land constructio ite areas. blic Works vorks as a S	surveying field. He n stakeout surveys He is familiar with and LA DOTD. Mr. Senior Technician.				
Experience dates (mm/yy–mm/yy)	Experience and qua etc. Experience da	alifications relev tes should cove	vant to the p r the time sp	roposed contract; <i>i.e.,</i> "designed drainage", "designed girders ecified in the applicable MPR(s).	i", "desigr	ned intersection",				
03/22 – Ongoing	LA 385: Ryan Stree Party Chief/Senior St) and near the car all buildings that fe	t Intersection In Technician. A To mpus of McNee Il within the surv	nprovements pographic su se State Univerververververververververververververv	s - LA DOTD Project No. H.012685.5 Irvey was required in Calcasieu Parish, LA near the intersection ersity. The survey includes all utilities and all drainage, along w e total linear distance was approximately 2.67 miles.	n of I-210 ith finish f	and LA 385 (Ryan floor elevations of				
02/22 - 06/22	LA 3021: Dual Turn Party Chief. LA DO intersection of LA 3 elevations of all bui	Lanes @ LA 39 TD tasked SJB (39 (N. Claiborne Idings within the	- LA DOTD Pr Group to per Ave.) and LA e survey limit	roject No. H.014752.5 form a topographic survey in Orleans Parish, Louisiana. The A 46 (Elysian Fields Ave.), and included all utilities with depths is. The project had a total linear distance of approximately 3,60	survey w s, drainag [,] 10 feet.	as located at the e, and finish floor				
08/21 - 11/21	LA 109: Gully Bridg Party Chief. A topo fall within the surve	e - LADOTD Pro graphic survey v ey limits in Calca	ject No. H.01 vas performe sieu Parish n	2041.5 ed including all utilities with depths and drainage, and floor ele ear the intersection of I-12 and LA 109.	vations of	f all buildings that				
07/21 – 02/22	UP RR Corridor (Plaquemine) – LA DOTD Project No. H.012851 Party Chief. SJB Group performed a topographic survey with all utilities and depths at the intersection of LA 1 and Bayou Rd., and the intersection of Belleview Dr. and Railroad Ave.									
07/20 - Ongoing	Rural Bridge Replacement Initiative - LA DOTD Contract No. 44-17597 Senior Technician. Topographic surveys, right-of-way mapping, and road design performed for the proposed 33 bridge replacements for L/ DOTD Districts 03, 07, 61, and 62 as a Sub-consultant. Each site required a complete topographic survey of the project limits, as well as complete inventory for each drainage structure (type, size, length, and invert). and cross sections of all drainage ways.									
01/19 – 05/19	LA 182 Barrow Street Bridge – LADOTD Project No. H.012735.5 Party Chief. SJB Group was contracted to provide a topographic survey and subsurface utility engineering Quality Level B for design. The purpose of this project was to replace a bridge structure located at the intersection of Park Avenue and Barrow street in downtown Houma									

Page 20 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm en	Firm employed by SJB Group, LLC									
Name	James Du	ke Koontz			Years of experience with this firm/employer	1				
Title	Survey Pai	rty Chief			Years of experience with other firm(s)/employer(s)	34				
Degree	(s) / Years /	Specialization		N/	A					
Active	registration	number / state / e	expiration date	N/	N/A					
Year re	gistered	N/A	Discipline	N/	A					
Contrac respons	ct role(s) / k sibilities	orief description of		Sur and exp top	vey Party Chief. Mr. Koontz has over thirty years of experience as a survel survey technician. Accuracy and completeness of data is Mr. Koontz's userience throughout the State of Louisiana performing boundary, constru- ographic, hydrographic and right-of-way surveys using both convention	vey party chief, field coordinator, Itmost priority. He has extensive uction stakeout, as-built, ALTA, al and GPS instruments.				
Experie	ence dates	Experience and q	ualifications rele	van	t to the proposed contract; <i>i.e.</i> , "designed drainage", "desi	igned girders", "designed				
(mm/y	y–mm/yy)	intersection", etc	. Experience dat	tes s	should cover the time specified in the applicable MPR(s).					
09/22	– Ongoing	US 90: Tulane Aver Party Chief. SJB Gr Tulane Avenue to D	nue – Danzinger Br oup is providing th Danzinger Bridge pr	r idg he to roje	e – LA DOTD Project No. H.014886.5 (Prime: Stanley Consulting) opographic survey and LiDAR Scan as a sub-consultant to Stanle ct along US 90.	y Consulting for the LA DOTD				
		LA 73 at Cornerview	w Roundabout – P	aris	h of Ascension Project No. MA-22-04					
09/22	- Ongoing	Party Chief. SJB Gr services for the place	oup is providing t cement of a round	he t Iabo	opographic survey, road design, drainage design, right-of-way- n ut at LA 73 and Cornerview Road in Ascension Parish.	naps, and SUE Quality Level C				
		S. Lewis St Widenir	ng - LA DOTD Proje	ect N	Io. H.013522 (Prime: Meyers Engineers, Ltd.)					
07/22	– Ongoing	Party Chief. This pr procedures. The to	roject consists of p pographic survey s	prov shall	iding a topographic survey for the S. Lewis Street widening proj extend past the apparent right-of-way to accommodate the road	ect in accordance with DOTD widening.				
		US 167 - Camellia E	Blvd-Churchill Dr -	LA C	OOTD Project No. H.013716 (Prime: Digital Engineering & Imaging	g, Inc.)				
06/22	– Ongoing	Party Chief. This proverhead wires, ty meters, traffic sign Way survey for the	roject includes the pe of pavement se als, traffic signs, be project limits.	orou urfa us s	gh topographic survey of the area identifying trees, bushes/shr ces, water meters, sewer cleanouts, fences, water valves, manh helters, fire hydrants, type of drainage pipes, driveway width, etc	ubs, utility poles, direction of oles, drainage structures, gas c. as well as perform Right-of-				
		LA 3021: Dual Turn	Lanes @ LA 38 – I	la d	OTD Project No. H.014752.5					
02/22	02/22 – 06/22 Party Chief. LA DOTD tasked SJB Group to perform a topographic survey in Orleans Parish, Louisiana. The survey was located at t intersection of LA 39 (N. Claiborne Ave.) and LA 46 (Elysian Fields Ave.), and included all utilities with depths, drainage, and finish flc elevations of all buildings within the survey limits. The project had a total linear distance of approximately 3,600 feet.									
		Rural Bridge Repla	cement Initiative -	- LA	DOTD Contract No. 44-17597					
07/20	- Ongoing	<i>Party Chief.</i> Topogra Districts 03, 07, 61, inventory for each	aphic surveys, righ and 62 as a Sub-co drainage structure	t-of- nsul (typ	way mapping, and road design performed for the proposed 33 brid tant. Each site required a complete topographic survey of the projecter, size, length, and invert), and cross sections of all drainage way	dge replacements for LA DOTD act limits, as well as a complete s.				

Page 21 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm employe	employed by SJB Group, LLC								
Name	Karen	Kennedy, PE			Years of relevant experience with this employer	1.5			
Title	SUE a	and Engineering Department Manager			Years of relevant experience with other employer(s)	26	1251		
Degree(s) / Y	'ears /	Specialization		Bachelor of S	Science / 1995 / Civil Engineering	-			
				Louisiana Sta	ate University				
Active registr	ration	number / state / expira	tion date	PE.0028547	/ Louisiana / 09.30.2023				
Year registere	ed	1999	Discipline	Civil Enginee	ring				
Contract role(s) / brief description of responsibilities			onsibilities	SUE and Engine engineer work improvement, other local ent Engineering CI/	eering Project Manager. Ms. Kennedy has twenty-seven years of ex- ing in both the municipal and private sectors. Ms. Kennedy has site development and subsurface utility engineering (SUE) projects t ities and private developers. She has a thorough knowledge of the /ASCE Standard 38-22 procedures.	perience comple for LA D revised	e as a licensed civil eted infrastructure OTD, MovEBR, and I Subsurface Utility		
Experience (mm/yy–mm/	dates 'yy)	Experience and qualifica Experience dates should	tions relevant cover the tim	to the propose e specified in t	ed contract; <i>i.e.</i> , "designed drainage", "designed girders", "des he applicable MPR(s).	igned i	ntersection", etc.		
08/22 - Ongo	oing	LA 485 Bridges Near Alle SUE Project Manager. SJE the project alignments at	n Constructio 3 Group will pr t three bridge	n Inspection – I ovide construct locations.	LA DOTD Task Order No. H.001820.5-3 tion coordination and monitoring for the relocation of three wa	ter mai	ns in conflict with		
04/22 - Ongo	oing	LA 30: EBR PL- I-10 - LA E SUE Department Manag Baker, Inc. as an addition correct identification of t to the Quality Level D red	OOTD Project I er/Engineer oj to the Stage (the utilities an cords, SJB perf	No. H.013797 f <i>Record.</i> SJB () Feasibility Stu d owners withi ormed field inv	Group performed ASCE 38-02 Quality Level D services as a su dy for the Corridor. There are many industrial pipelines within n this corridor imperative for the continuance of the Stages of estigations to determine the order of the pipelines within the	b-consi this co f this pr project	ultant to Michael rridor making the oject. In addition limits.		
03/22 – 08/	/22	D Vickers Hall Renovations and Addition SUE Engineer of Record. SJB Group performed ASCE 38-02 Quality Level A and B SUE services for all utilities as a sub-consultant to Holly & Smith Architects for the proposed D. Vickers Hall Expansion at Southeastern Louisiana University. Locations of the existing utilities are required to determine conflicts with the proposed expansion of D. Vickers Hall, new parking lot, and pedestrian path. Anticipated utilities were water, gas, telephone, cable, and fiber optic. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE design							
01/22 – 06/	/22	Dawson Creek at Hundred Oaks and Broussard Bridges – City Parish Project No. 21-DR-LA-0095 SUE Engineer of Record. SJB Group performed subsurface utility engineering and utility surveying as a sub-consultant for the proposed Dawson Creek at Hundred Oaks and Broussard Bridges. This project required ASCE 38-02 Quality Level A and B SUE services for all utilities within the project limits. The accurate location of these facilities was critical for the ultimate design of the bridge infrastructure included in this project.							
10/21 - 04/	/22	I-110: 1-110 North Stree SUE Engineer of Record. Baton Rouge Parish. Qua	t to Plank Roa SJB Group per lity Level C and	d – LA DOTD Pi formed ASCE 3 d D services req	roject No. H.010319.5 8-02 Quality Level C and D SUE services for all utilities on this juires extensive records research to aid in the subsequent SUE	LA DO1 design	רD project in East		

Firm employe	Firm employed by SJB Group, LLC								
Name	Kyle H	aigler, PE			Years of relevant experience with this employer	1			
Title	Engine	ering Project Manager	•		Years of relevant experience with other employer(s)	6	12		
Degree(s) / Years / Specialization				Bachelor of S	Science / 2016 / Civil Engineering				
				Louisiana Sta	ate University				
Active registra	ation I	number / state / expira	ation date	PE.0044652	/ Louisiana / 09.30.2024				
Year registere	ed	2020	Discipline	Civil Enginee	ring				
Contract role(s) / brief description of responsibilities			onsibilities	Drainage Engin years of exper modeling, and includes prelim drainage impac	eer. Mr. Haigler is a registered professional engineer in the state of ience working in the civil development industry. He specializes in focuses on commercial and residential development planning for S ninary site layouts and design, residential and commercial construc- t studies, and subsurface/open ditch drainage systems.	Louisia draina SJB Gr tion p	ina and offers seven age calculation and oup. His experience lans, preparation of		
Experience d (mm/yy–mm/y	dates yy)	Experience and qualifica Experience dates should	tions relevant I cover the tim	to the propose e specified in t	d contract; <i>i.e.,</i> "designed drainage", "designed girders", "desi he applicable MPR(s).	igned	intersection", etc.		
03/22 – Ongo	oing	Tiger Bayou RV Park Drainage Engineer. SJB & Baton Rouge Parish. Nex Construction plans inclu	group first deve kt, Construction ded geometric	eloped a Prelim Documents an lavout drainag	ninary Site Plan that satisfied the needs and requirements of b nd a Drainage Impact Study were developed that met the require layout utility layout erosion control, and standard details.	oth th uirem	ne client and West ents of the parish.		
03/22 – 06/2	22	Harvest View Subdivisio Drainage Engineer. SJB drainage analysis was re as required by Pointe Co	n for Pointe Pr Group provided quested by Poi upee Parish.	d drainage ana nte Coupee Par	lysis for the as-built detention design of a single family reside ish to ensure the as-built detention system reduced the runoff	ential to a p	development. The pre-developed rate		
03/22 – Ongo	oing	Benny's – Zachary, LA Location Infrastructure Plans Project Engineer. SJB Group is providing a full commercial subdivision site design and construction plans for the proposed Benny's Carwash property in Zachary, LA. Design includes drainage, grading, utility, and geometrics for the property to provide pad ready property for future commercial developments. SJB Group also managed the Rezoning and Site Plan Approval with the City of Zachary. This process included a full Device set Studies the development of the formal Site Plan Package							
02/22 – 06/2	22	LA 3021: Dual Turn Lanes @ LA 38 – LA DOTD Project No. H.014752.5 Drainage Engineer. LA DOTD tasked SJB Group to perform a topographic survey and drainage map in Orleans Parish, Louisiana. The survey was located at the intersection of LA 39 (N. Claiborne Ave.) and LA 46 (Elysian Fields Ave.), and included all utilities with depths, drainage, and finish floor elevations of all buildings within the survey limits. The project had a total linear distance of approx 3,600 feet.							
08/21 – 03/2	Tinish floor elevations of all buildings within the survey limits. The project had a total linear distance of approx 3,600 feet. UPRR Corridor (Plaquemine) – LADOTD Project No. H.012851 21 – 03/22 Drainage Engineer. SJB Group performed ASCE 38-02 Quality Level B, C, and D subsurface utility engineering, utility surveying, and a draina map for the project located in Iberville Parish along the Union Pacific Railroad Corridor between the intersection of LA 1 and Bayou Road a the intersection of Belleview Drive and Railroad Avenue.								

Firm employ	ed by	SJB Group, LLC						
Name	Austin	LaCombe, El			Years of relevant experience with this employer	1		
Title	Assista	ant SUE Department M	anager		Years of relevant experience with other employer(s)	7		
Degree(s) / Y	/ears / S	Specialization		Bachelor of S	Science / 2017 / Civil Engineering			
				Louisiana Sta	ate University			
Active regist	ration r	number / state / expira	ation date	EI.0033659 /	′ Louisiana / 09.30.2024			
Year register	ed	2018	Discipline	Civil Enginee	ring			
Contract role(s) / brief description of responsibilities			onsibilities	SUE Project En projects for SJB research, prepa client coordinat working on a va guidelines and	gineer. Mr. LaCombe manages and assists with managing subsurface Group. He is tasked with managing day-to-day operations of SUE fie aration of field packages, supporting field efforts, organization and pr tion, and preparation/QA/QC of project deliverables. Mr. LaCombe h ariety of projects with diverse timelines. He is also responsible for en- policies are followed by SUE personnel.	utility engineering (SUE) Id crews including project rocessing of field data, as significant experience suring that all safety		
Experience date	es	Experience and qualification	ons relevant to t	the proposed con	ntract; <i>i.e.</i> , "designed drainage", "designed girders", "designed inte	rsection", etc. Experience		
03/22 - 08/ 11/21 - 03/	/22	dates should cover the time specified in the applicable MPR(s). D Vickers Hall Renovations and Addition SUE Engineer. SJB Group performed ASCE 38-02 Quality Level A and B SUE services for all utilities as a sub-consultant to Holly & Smith Architects for the proposed D. Vickers Hall Expansion at Southeastern Louisiana University. Locations of the existing utilities were required to determine conflicts with the proposed expansion of D. Vickers Hall, new parking lot, and pedestrian path. Prior to Quality Level A and B services, extensive Quality Level D records research was completed to aid in the subsequent SUE investigation. Utilities located included water, gas, telephone, cable, and fiber optic. LA 30 Roundabouts Subsurface Utility Investigation (Tanger Mall and I-10) – Project No. 20-2057 SUE Engineer. SJB Group performed ASCE 38-02 Quality Level A SUE and utility surveying to identify utility conflicts for all utilities owned by the City of Gonzales and the proposed LA 30 Roundabouts at Tanger Mall and I-10 in Asconsion Parish. Prior to Quality Level A carriers						
		field investigations and c	lata managem	ent.	eted to ald in the subsequent SOE design. This effort required t			
10/21 - 02/	/22	I-10: LA 73 - LA30 – LA DOTD Project No. H.009266.5 <i>Project Manager.</i> LA DOTD is preparing plans to widen I-10 from 4 to 6 lanes from LA 73 – to LA 30. This project required Quality Level B SUE services at the LA73/I-10 interchange as well as Quality Level D services for the remainder of the project limits. Mr. LaCombe assisted with utility records research, as well as managed SUE field efforts throughout the duration of the project.						
01/18 – 05/	/20	utility records research, as well as managed SUE field efforts throughout the duration of the project. I-10: LA 415 to Essen Lane on I-10 and I-12 – LA DOTD Project No. H.004100.5 Project Manager / QA/QC. Mr. LaCombe assisted in the collection of utility owner record information and other project research used in the development of the comprehensive map, used by the design team to avoid critical utilities in preliminary design. Mr. LaCombe also coordinated SUE field efforts for utility designation and with project team members for utility data collection and accurate depiction of phase changes, as well as the preparation and QA/QC of project deliverables. Records research (Quality Level D) and designating (Quality Level B) SUE efforts throughout the 10-mile project corridor were key in providing complete utility information						

Page 24 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm employed by SJB Group, LLC								
Name	Kenne	th Gaines			Years of relevant experience with this employer	<1		
Title	SUE Te	chnician III			Years of relevant experience with other employer(s)	7		
Degree(s) / Ye	ears / S	opecialization		N/A				
Active registr	ation n	umber / state / expira	tion date	N/A				
Year registere	ed	N/A	Discipline	N/A				
Contract role(s) / brief description of responsibilities			onsibilities	SUE Technician projects rangin Gaines began h grasp of investig to his locating meetings, perfe additional utilit	I. Mr. Gaines has over seven years of experience as a subsurface util g from small rural areas to large utility congested urban cities acro is utility career as a field associate and has elevated himself to a seni gative best practices, knowledge of utility locating equipment, and atte experience, Mr. Gaines is responsible for the supervision of field created orming intermittent QA/QC measures in field investigations, and or y investigations for projects.	ity locator, on a variety of iss the United States. Mr. or field position due to his ention to detail. In addition ws, conducting utility field determining the need for		
Experience dat	tes	Experience and qualific	ations relevar	nt to the propo	sed contract; <i>i.e.</i> , "designed drainage", "designed girders", "	designed intersection",		
(mm/yy-mm/y	уу)	etc. Experience dates s	hould cover th	ne time specifie	ed in the applicable MPR(s).			
10/22 - Ongo	oing	MOVEBR Airline Highwa SUE Technician. SJB Gro is a heavy congestion of preliminary design of th	ay, North (Flor up will comple f utilities withi e project.	ida Blvd to Inte te ASCE 38-02 (n these project	erstate I-110) – City-Parish Project No. 20-CP-US-0099 Quality Level D services for the project as a sub-consultant to Hu t limits and identification of utility owners and approximate lo	ival & Associates. There cations is critical to the		
08/22 - 08/	22	Hawthorne Hollow Brid SUE Technician. SJB Gro	lge in Madison up provided A	i ville, LA SCE 38-02 Qual	ity Level A subsurface utility locating and hydro- probing for thi	is project.		
08/22 - 08/	22	Mandeville City Hall Lot SUE Technician. SJB Gro	t 1A, 2A, and 3 up provided AS	A SCE 38-02 Quali	ty Level B designating services as a sub-consultant to Kelly McH	ugh and Associates, Inc.		
08/22 - 08/	22	Siegen Lane School for SUE Technician. SJB Gro Design Group.	Duplantis Desi oup provided A	gn Group (Proj SCE 38-02 Qua	ect No. 22-1014) lity Level A subsurface utility locating for this project as a sub-	consultant to Duplantis		
08/22 - Ongo	08/22 - Ongoing Gillis Long Center in Carville, LA SUE Technician. SJB Group is providing ASCE 38-02 Quality Level B utility marking services for approximately 43,000 feet of undergroun water lines and various other underground utility lines.							
05/22 - Ongoing LA 30: EBR PL 1-10 (Part 1) – LA DOTD Project No. H.013797 (Prime: Michael Baker, Inc.) SUE Technician. SJB Group is providing ASCE 38-02 Quality Level D, GIS, and LiDAR review services as a sub-consultant to Michael Baker, Inc.) for state project H.013797.						nt to Michael Baker, Inc.		
05/22 - Ongoin	ng	MovEBR SUE for Airline SUE Technician. SJB Gro Services Inc. on Airline H	Highway Sout up is providing lighway South	t h – City-Parish 3 ASCE 38-02 Qu from Parish Lir	Project No. 20-CP-US-0100 uality Level D utility locating services services as a sub-consulta ne to Bluebonnet Boulevard.	nt to Stantec Consulting		

Page 25 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm employed by ELOS Environmental	LLC	Meets MPR No. 5					
Name Lucas Watkins	Years of relevant experience with this employer	16					
Title Principal / Environmental Scientist	Years of relevant experience with other employer(s)	6					
Degree(s) / Years / Specialization	BS/ 2000 / Forest Management						
	MS / 2005 / Biological Sciences						
Active registration number / state / expiration date	LDAF Certified Arborist, No. 19-1827	LDAF Certified Arborist, No. 19-1827					
Year registered 2010 Disciplin	Arborist	Arborist					
Contract role(s) / brief description of responsibiliti	s Mr. Watkins will serve as the principal (MPR #1), providing leade	Mr. Watkins will serve as the principal (MPR #1), providing leadership, direction, senior-level					
	oversight, and quality control for all aspects of the project.						
Experience dates Experience and qualifications	elevant to the proposed contract						
Lucas Watkins is the President and founding Princ	pal of ELOS. His experience includes environmental regulatory compliance	ce and project management.					
This includes the management of large-scale	multi-faceted projects, such as disaster recovery debris removal	efforts, wetland restoration					
implementation, government grant management,	nd complex construction projects. His key strengths include wetland delir	neations, wetland permitting,					
wetland restoration, NEPA compliance, ASTM Ph	ise I ESAs, stormwater management, FERC regulatory overview and gui	idance, endangered species					
surveys, and timber and forest management. He	has substantial experience in permitting municipal infrastructure, lever	es, borrow pits, oil and gas					
exploration, productions, and transmission activi	exploration, productions, and transmission activities as well as working on other public and private sector environmental-related issues. Mr. Watkins						
works to ensure that ELOS acquires the best tools and techniques to guarantee efficient and cost-effective delivery of services to clients.							
09/20 – Ongoing S.P. H.008915.2, LA 3234 E	- Ongoing S.P. H.008915.2, LA 3234 EXTENSION TO HAMMOND AIRPORT EA (LADOTD, N-Y ASSOCIATES)						
Principal. Provided senior-leve	Principal. Provided senior-level oversight and quality control for final reports. This project included a wetland delineation, section						
404 and 401 permit application	404 and 401 permit applications, cultural resources site visit and report, and a threatened and endangered species survey.						
08/20 - Ongoing S.P. H.013958, RUKAL BRID							
INC.)	INC.)						
Project Manager. This bridge	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and						
	BE INITIATIVE - REEDS BRIDGE ROAD OVER CALCASIED RIVER	RELIEF (LADOTD, BORK-					
Project Manager This bridge	anlacement project included a watland delineation, permit applications, a	and a threatened and					
endandered species survey	splacement project included a welland delineation, permit applications, a						
08/20 – 01/22 S.P. H.013963, RURAL BRID		NPETER INC.)					
Project Manager. This bridge	eplacement project included a wetland delineation, permit applications a	and a threatened and					
endangered species survey.	endangered species survey.						

08/20 - 09/21	S.P. H.013968, RURAL BRIDGE INITIATIVE – LA 404: BAYOU AND CANAL BRIDGES (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation and permit applications.
08/20 - 02/22	S.P. H.013970, RURAL BRIDGE INITIATIVE – LA 717: KLONDIKE CANAL AND BAYOU BRIDGES (LADOTD, BURK-KLEINPETER,
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
08/20 – Ongoing	S.P. H.013976, RURAL BRIDGE INITIATIVE – LA 376: BAYOU BRIDGES (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/20 - 01/22	S.P. H.013982, RURAL BRIDGE INITIATIVE – LA 10 SPUR, LA 1042: BRIDGES NEAR GREENSBURG (LADOTD, BURK-
	KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation and permit applications.
08/20 – Ongoing	S.P. H.013984, RURAL BRIDGE INITIATIVE – LA-0016/WRIGHT'S CREEK, HOLDEN'S CREEK, UNNAMED DRAIN, TALLEY'S
	CREEK, BERRY'S CREEK (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/20 – 01/22	S.P. H.013996, RURAL BRIDGE INITIATIVE – LA 1074, LA 1075: BRIDGES NEAR RIO (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/20 – 09/21	S.P. H.013989, RURAL BRIDGE INITIATIVE – GRAYBOW ROAD/PALMETTO CREEK (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/17 – 07/18	I-10 HIGHLAND LA 73 DESIGN-BUILD - EAST BATON ROUGE PARISH, LA TO ASCENSION PARISH, LA (LADOTD, SIGMA
	CONSULTING GROUP, INC.)
	Project Manager. Environmental compliance manager responsible for permitting and construction monitoring for the fast-track
	interstate widening project from Highland Road in Baton Rouge to LA 73 in Prairieville.
03/14 – 06/17	LOUISIANA-3234 EXTENSION - TANGIPAHOA PARISH, LOUISIANA (LADOTD, N-Y ASSOCIATES INC.)
	Project Manager. Provided environmental services for LA-3234 Extension from LA-1065 to Hammond Airport. These services
	included preparing estimates of environmental mitigation costs, and any unavoidable environmental impacts, such as wetland
	mitigation, hazardous waste mitigation, or cultural resource mitigation.

Firm employed by	y ELOS Environmental, LLC Me							
Name Jerry V. C	Graves, Ph.D.		Years of relevant experience with this employer	<1				
Title Vice Pres	ident of Coastal Resilience		Years of relevant experience with other employer(s)	19				
Degree(s) / Years	/ Specialization	PhD.	/ 2012 / Urban Studies					
		MPA	/ 2007 / Hazard Policy					
		BA /	2003 / Political Science					
Active registration	number / state / expiration date	N/A	N/A					
Year registered	N/A Discipline	N/A						
Contract role(s) / k	prief description of responsibilities	Mr. 0	Graves will serve as a senior environmental scientist and project	t management planner.				
Experience dates	Experience and qualifications rele	ant to	the proposed contract					
Jerry V. Graves s	pecializes in project management,	urban a	nd environmental planning, and emergency management. Dr.	. Graves is an experienced				
a docado. Dr. Grav	ves currently serves as the Vice Pro	anner. sidont c	The is also all experienced administrator who previously worked	of project management and				
consulting service	s to clients throughout the region		of Coastal Resillence at LLOS, where he provides a wide range	Si project management and				
09/22 – Ongoing	- Ongoing LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES CONSULTING SERVICES - BATON ROUGE, LA.							
	Serves as project manager for an agency-wide project funding strategy effort and writes grants for a variety of federal programs.							
01/16 – Ongoing	3 ST. BERNARD PARISH COASTAL PROGRAM CONSULTING – ST. BERNARD PARISH, LA.							
	Serves as project manager for Graves Public Services (2016-2020), Arcadis (2020-2022), and ELOS (2022-currently), while							
	supporting all coastal restoration p	lanning	, funding, and implementation efforts in St. Bernard Parish.					
08/22 – Ongoing	2 – Ongoing JEFFERSON PARISH COASTAL PROGRAM CONSULTING – JEFFERSON PARISH, LA.							
	Serves as project manager in support of the parish's effort to develop a management and mitigation strategy for the sustainable							
	redevelopment of Grand Isle, LA.							
01/20 - 07/22	/20 – 07/22 CPRA ENVIRONMENTAL CONSULTING SERVICES – BATON ROUGE, LA.							
	Served as project manager for Arcadis during the CPRA 2023 State Master Plan process and oversaw the development and							
	implementation of the agency's construction cost estimation tool and project database.							
01/20 - 07/22	LOUISIANA WATERSHED INITIATIVE (LWI) PROGRAM CONSULTING – BATON ROUGE, LA.							
	Served as project manager for Arcadis (sub-consultant to CSRS) during the development of the LWI Regional Planning Framework							
	and Nonstructural Mitigation Program Alignment Guidance for State Agencies.							
01/21 – 07/22	FLORIDA DEPARTMENT OF ECC	NOMIC	COPPORTUNITY (DEO) CDBG-MIT PROGRAM CONSULTING	i – TALLAHASSEE, FL.				
	Served as project manager for Arcadis (sub-consultant to CRI) during the development and implementation of DEO's CDBG-MIT							
	program.							

Firm employed by	ELOS Environmen	tal, LLC				Meets MPR No. 5		
Name Brian For	me Brian Fortson			Years of relevant experience with this employer	7			
Title Senior Ec	or Ecologist			Years of relevant experience with other employer(s) 30				
Degree(s) / Years	/ Specialization		Juris	Doctorate/2006/Civil Cum Laude				
			BS/1	995/Wetland Ecology				
Active registration	number / state / expi	ration date	N/A					
Year registered	N/A	Discipline	N/A	N/A				
Contract role(s) / k	orief description of re	sponsibilities	Mr. F	Mr. Fortson will serve as the Senior Environmental Scientist and provide regulatory agency				
			guida	guidance. Brian's extensive knowledge of state and federal environmental regulations enables				
			him t	o navigate the permitting process.				
Experience dates	Experience and qua	alifications releva	ant to t	the proposed contract				
Mr. Fortson has 30	0+ years of environm	ental experience	e with	permitting various complex developmental infrastructure project	ts. Mr. I	Fortson serves as a		
Senior Environmer	ntal Scientist at ELOS	S, working with r	egulat	ory agencies such as USDA, NRCS, FEMA, USACE, DNR, and	d LDEQ.	. Brian's knowledge		
of state and federa	al environmental regu	lations and year	s of ex	perience enables him to navigate the permitting process. Mr. F	ortson a	also provides senior		
guidance to the er	vironmental scientist	s at ELOS on ve	egetati	on identification and threatened and endangered species surve	eys.			
01/15 - 01/16	STATE PROJECT NO. STP-445-1(002) US 51 BUSINESS (LA 22 TO I-12) (LADOTD, N-Y ASSOCIATES)							
	Senior Environmental Scientist. Mr. Fortson supervised and participated in field investigations to support wetland delineations and							
	findings reports, biological surveys, and threatened and endangered species reports. He also provided coordination among natural							
	resource agencies, consultation with landowners, and outreach to public groups.							
08/17 – 07/18	S.P. H.972275, LAND USE AND TRANSPORTATION STUDY HARRISON AVE EXT (LADOTD, PROFESSIONAL ENGINEERING							
	CONSULTANTS CORP.)							
	Senior Environmental Scientist. Assisted in the preparation of a DOTD Stage 0 Environmental Checklist for the extension of Harrison							
	Avenue in Abita Springs from LA 59 to LA 36, a distance of 1.7 miles. Desktop and field data were collected to identify relevant							
	resources in the project area. He assisted in the identification of land use, wetlands, community facilities, recreational assets, historic							
00/47 00/04	and cultural sites, and hazardous waste sites.							
09/17 - 02/21	S.P. H.008915.2, LA 3234 EXTENSION TO HAMMOND AIRPORT ENVIRONMENTAL ASSESSMENT (LADOTD, N-Y ASSOCIATES)							
	Senior Environmental Scientist. Responsible for the supervision of fieldwork, wetland delineations, biological surveys, wetland value							
	from LA 1065 to the	Section 404 app	nicatio	in tor three alternative alignments being studied for the extens	ION OF E.	. University Avenue		
05/21 _ 03/22				EMENT				
00/21 - 00/22	Senior Environmen	tal Scientist Se	arved	as a Project Manager overseeing the permitting process of	ordinat	ing with regulatory		
	agencies, and providing senior-level insight for the replacement of the Trace Bridge over Little Bayou Castine on Tammany Trac							
L	agencies, and prov		n in orgi	The of the replacement of the trade bridge ever Little bayou da		rannuny nuoo.		

Firm employed by ELOS Environmental, LL		Meets MPR No. 2					
Name Cory Ricks	Years of relevant experience with this employer	6					
Title Project Manager / Environmental Scien	ist Years of relevant experience with other employer(s)	2					
Degree(s) / Years / Specialization	BS / 2015 / Biology	BS / 2015 / Biology					
Active registration number / state / expiration da	e R-I-99273-17-01464						
Year registered 2017 Disciplin	e proActive Safety Services Renovator Initial						
Contract role(s) / brief description of responsibil	ies Cory will serve as the Project Manager, providing his exp	ertise for wetland delineations and					
	jurisdictional determinations, as well as managing the collecti	jurisdictional determinations, as well as managing the collection of field data and the development					
	of reports.						
Experience Experience and qualification	relevant to the proposed contract						
dates							
Mr. Ricks serves as ELOS's wetland delineation	specialist. Mr. Ricks has led wetland delineation efforts for multiple	projects for local entities, mitigation					
banks, and infrastructure developments. He ha	provided assistance with NEPA documentation, permitting, GIS m	apping, and cultural resources for a					
variety of projects. He currently manages a te	am of environmental scientists, field biologists, and data proces	sors who all assist on a variety of					
environmental and disaster recovery projects.							
08/20 – Ongoing S.P. H.013958, RURAL BRI	GE INITIATIVE – CARPENTERS BR RD OVER WHISKEY CHITTO	CR (LADOTD, BURK-KLEINPETER,					
INC.)							
Project Manager. This brid	endancered species survey						
08/20 - 03/22 S.P. H.013959, RURAL BR KLEINPETER, INC.)	S.P. H.UI3939, KUKAL BRIDGE INITIATIVE - REEDS BRIDGE ROAD OVER CALCASIEU RIVER RELIEF (LADOTD, BURK-						
Project Manager. This brid	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and						
endangered species survey.	endangered species survey.						
08/20 – 01/22 S.P. H.013963, RURAL BRI	S.P. H.013963, RURAL BRIDGE INITIATIVE – UNNAMED WATERWAY ROUTE (LADOTD, BURK-KLEINPETER, INC.)						
Project Manager. This brid	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and						
endangered species survey.	endangered species survey.						
08/20 – 09/21 S.P. H.013966, RURAL BRI	S.P. H.013966, RURAL BRIDGE INITIATIVE – LA 321: CREEK BRIDGES (LADOTD, BURK-KLEINPETER, INC.)						
Project Manager. This brid	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and						
endangered species survey.	endangered species survey.						
08/20 - 09/21 5.P. H.013968, KUKAL BRIL	GE INITIATIVE – LA 404: BAYOU AND CANAL BRIDGES (LADOTI	D, BUKK-KLEINPETEK, INC.)					
	$C_{\rm INITIATIVE} = LA TTT. RECIDIRE CANAL AND DATOU BRIDG$	LO (LADOTO, BORK-REEINFETER,					
Project Manager This bride	e replacement project included a wetland delineation permit a	polications and a threatened and					
	a replacement project moladed a molaria domodulori, pormit a	pproduction, and a throatonica and					

08/20 – Ongoing	S.P. H.013976, RURAL BRIDGE INITIATIVE – LA 376: BAYOU BRIDGES (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/20 - 01/22	S.P. H.013982, RURAL BRIDGE INITIATIVE – LA 10 SPUR, LA 1042: BRIDGES NEAR GREENSBURG (LADOTD, BURK-
	KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation and permit applications.
08/20 – Ongoing	S.P. H.013984, RURAL BRIDGE INITIATIVE – LA-0016/WRIGHT'S CREEK, HOLDEN'S CREEK, UNNAMED DRAIN, TALLEY'S
	CREEK, BERRY'S CREEK (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/20 – 01/22	S.P. H.013996, RURAL BRIDGE INITIATIVE – LA 1074, LA 1075: BRIDGES NEAR RIO (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
08/20 – 09/21	S.P. H.013989, RURAL BRIDGE INITIATIVE – GRAYBOW ROAD/PALMETTO CREEK (LADOTD, BURK-KLEINPETER, INC.)
	Project Manager. This bridge replacement project included a wetland delineation, permit applications, and a threatened and
	endangered species survey.
	S.P. II. UU0915.2, LA 3234 EXTENSION TO HAIVINOND AIRPORTEA (LADOTD, IN-TASSOCIATES)
	Environmental Scientist. Performed the wetland delineation for all three routes and provided a report of the findings. Provided
	assistance for GIS mapping of the wetlands Findings Report, Phase T Environmental Assessment Survey, and the Biological
	Assessment Survey. Provided a report of the threatened and endangered species known in the project area. Lead efforts on
	providing stream and waterbody data for each report. This project included a wetland delineation, section 404 and 401 permit
	applications, cultural resources site visit and report, and a threatened and endangered species survey.
10/17 – Ongoing	MOVE ASCENSION TRANSPORTATION MASTER PLAN DEVELOPMENT AND IMPLEMENTATION
	Environmental Scientist. Conducted wetland delineations and managed field crews conducting delineations.

Firm employed by	ELOS Environme	ental, LLC					
Name Basile Da	me Basile Dardar Years of relevant experience with this employer 1						
TitleBiologistYears of relevant experience with other employer(s)7							
Degree(s) / Years	/ Specialization		BS/2014/Biological Sciences				
Active registration	number / state / expi	ration date	NA				
Year registered	NA	Discipline	NA				
Contract role(s) / I	brief description of res	sponsibilities	Mr. Dardar will serve as the Environmental Biologist, providing his expertise for inspections, permitting, environmental surveying, developing reports, research, sampling, testing, and coordinating with agencies and clients.				
Experience dates	Experience and qua	lifications relev	ant to the proposed contract				
Mr. Dardar provid oyster biologist, as	es environmental exp s well as a certified div	ertise, accurat ver.	e reporting, and a high degree of professionalism to every project. Mr. Da	dar is also a certified			
08/20-08/22	S.P. H.013958, Rural Bridge Initiative – Carpenters Br Rd Over Whiskey Chitto CR (LADOTD, Burk-Kleinpeter, Inc.) Mr. Dardar provided environmental biology consulting for the bridge replacement project, which included a wetland delineation, permit applications, and a threatened and endangered species survey.						
08/20 – 03/22	S.P. H.013959, Rural Bridge Initiative – Reeds Bridge Road Over Calcasieu River Relief (LADOTD, Burk-Kleinpeter, Inc.) Mr. Dardar served as an environmental biologist for the bridge replacement project, which included a wetland delineation, permit applications, and a threatened and endangered species survey.						
08/20 – 02/22	S.P. H.013970, Rural Bridge Initiative – LA 717: Klondike Canal and Bayou Bridges (LADOTD, Burk-Kleinpeter, Inc.) Mr. Dardar served as an Environmental Biologist for the bridge replacement project, which included a wetland delineation, permit applications, and a threatened and endangered species survey.						
07/22-Ongoing St. Tammany Parish Lake Road Mr. Dardar serves as an environmental biologist for the bridge replacement project, which includes collecting data and documentation, impact analysis, solicitation of views (SOV), preparing a document DOTD and federal highway administration (FHWA) compliant categorical exclusion (CE), conducting a wetland delineation, and obtaining USCG and scenic rivers permits. He assists with all field work and assisting for report preparation.							
04/22- Ongoing	S.P. H.01362 Yellow Water Road Bridge Mr. Dardar serves as an environmental biologist for the bridge replacement project, which includes floodplain, recreational, cultural/historic, wildlife impacts desktop analysis, USACE permits, wetland delineation and jurisdictional determination, threatened and endangered species, solicitation of views, and categorical exclusion checklist. He assists with all field work and report preparation.						

17. Firm Experience:

Identify the team's project experience <u>most relevant</u> to the scope in the advertisement. The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

Firm name	Infinity Engineering Consultants, LLC.				Past Performance Evaluation Discipline(s)* Bridge				
Project name	Joe Brown Park Bridge Replacement Firm responsibility (prime or su						b?) Prime		
Project number	r IEC-15-009 Owner's name City of New Or				New Orleans	6			
Project location New Orleans, LA Owner's Project Manager James Kapesis					S				
Owner's address, phone, email 1300 Perdido St., RM 6W03, NOLA 70112; jrkapesis@nola.gov; 504-658-8041									
Services commenced by this firm (mm/yy) 2/2015			Total consultant contract cost (\$1,000's)				\$73		
Services completed by this firm (mm/yy) 10/2017				Cost of	consultar	nt services pro	vided by this fir	m (\$1,000's)	\$73

Infinity performed the above and below deck condition inspection and evaluation of fourteen (14) bridges around the City of New Orleans. The fourteen bridges located throughout New Orleans consisted of a variety of materials, including concrete, timber, and steel.

The City of New Orleans required that these bridges be inspected and that structural analyses be performed in order to assign load ratings as per AASHTO requirements. Infinity determined that the majority of the bridges met the AASHTO load rating requirements, and proscribed remedial repairs or replacement for those that did not. Among these bridges were three in Joe Brown Park in New Orleans East. One bridge was found to be in poor condition such that it was Infinity's official recommendation for the bridge to be removed from service.

After careful analysis of the bridge inspection, Infinity recommended to the City of New Orleans for a bridge to be replaced in Joe Brown Park. Infinity provided the engineering designs for a complete

replacement of the bridge. The project included the demolition of the old bridge, its support piers, abutments, and approach paving; installation of new pilings and caps; installation of new deck panels, new abutments, and new approach slabs; and the establishment of new traffic markings and striping within the limits of construction.

Infinity engineers involved with project: William Thomassie, P.E; Rachel Kenney, P.E.; Ricardo Contreras, P.E.



Page 33 of 65 Prime consultant name: Infinity Engineering, LLC.
Firm name	Infinity Engineering Consultants, LLC			LC. I	Past Performance Evaluation Category(ies)* Bridge						
Project name	Alvin Calendar	Airfiel	d Vehicular Bric	lge		Firm responsibility (prime or su				o?)	Sub
Project number IEC-20-019 Owner's name					STOA A	Architects					
Project location	Belle Chase,	LA				Owner's Pro	ject Manager	Robe	ert McClen	don	
Owner's address, phone, email 121 E. Government St, Pensacola, FL 32502; 850-432-1912;											
		mccl	endon@stoaarc	hitects	.com						
Services comm	enced by this firm	l	9/20	Total o	consultan	t contract cost	t (\$1,000's)			N/A	
(mm/yy)											
Services completed by this firm Under					Cost of consultant services provided by this firm (\$1,000's)				\$86	i -	
(mm/yy) Construction											

Infinity is providing structural designs for this naval air station project. The structural designs include the establishment of a new vehicular bridge that will span across a drainage canal that parallels Barrier Road. Upon completion, this bridge will be approximately 50 feet wide by 160 feet in length and will include approach spans at both ends.

While the bridge is essentially level, the designs call for the bridge to uniformly elevated to span the canal and align with target grades, which is slightly higher than existing ground surfaces. Initial designs called for the bridge to be two lanes; however, it has been revised to be a four-lane bridge with concrete spans. Infinity has created structural designs for the reinforced abutment, pile support, lateral retaining walls, wing walls, and bridge deck. All bridge designs were developed in accordance with ASHTO guidelines.

The detailed designs for the bridge include the following:

- Pile Selection and Specification
- Pile Cap Design
- Abutment Design Including Lateral Retaining Walls
- Bridge Deck Design

Infinity engineers involved with project: William Thomassie, P.E; Rachel Kenney, P.E.; Ricardo Contreras, P.E.; Louis Jackson, P.E.





Firm name	Infinity Engine	Infinity Engineering Consultants, LLC				rmance Evalı	ation Category(i	ies)* Bridge		
Project name	Port Ship Servi	Port Ship Service Bridge Design					Firm responsible	ility (prime or su	ib?) Prime	
Project number	IEC 18-022	EC 18-022 Owner's name				ne Plaquemines Parish Port & Terminal				
Project location	Myrtle Grove	e, LA				Owner's Pro	oject Manager	Paul Matthew	S	
Owner's addres	r's address, phone, email 8056 Highway 23, 3rd F					hasse, LA 7	0037; 504-682-	-7920 ;		
		pmattews	s@pphtd.co	om						
Services comm	enced by this firm	(mm/yy)	05/19	Total	consultant	t contract cos	t (\$1,000's)		\$203	
Services completed by this firm (mm/yy) Bidding Co				Cost	Cost of consultant services provided by this firm (\$1,000's)			\$203		
			Phase							

Infinity is the prime consultant for the design and construction a new facility for the Port Ship Service Myrtle Grove within the Plaquemines Parish Port & Terminal. The current facility site is being allocated for new development, which necessitated the building of a new wharf structure and office building with vehicular and machine access. Infinity is providing civil, structural, mechanical, and electrical design services.

The civil/structural design components include the following:

- Relocation of the floating barge dock, including capture piles and yokes
- o 30' vehicular bridge with slope stabilization to the bank
- o Concrete wharf structure with vehicular access
- o Road extension access to Highway 23 with lane stripping
- o 25' x 50' steel framed loading platform with concrete abutment
- o 25' x 25' steel framed crane platform
- o All designs were developed in accordance with ASHTO guidelines

Infinity engineers involved with project: William Thomassie, P.E; Rachel Kenney, P.E.; Louis Jackson, P.E.



Firm name	Infinity Engine	Infinity Engineering Consultants, LLC				rmance Evalu	ation Category(ies)* Bridge	
Project name	Off-System Hig	hway Brid	ge Program	Savar	nne Road Over Firm responsibility (prime or			ility (prime or su	b?) Prime
	Hanson Canal	Hanson Canal							
Project number	Contract No.	Contract No. Owner's name Louisiana Department of Transportation & Develop							pment
	4400019314	0019314							
Project location	Houma, LA				Owner's Project Manager Barbara Ostu			no, P.E.	
Owner's addres	s, phone, email	1201 Cap	bitol Access	Road,	, Baton R	ouge, LA 70	802; 225-379-1	047;	
Barbara.ostuno.la.gov									
Services commenced by this firm (mm/yy) 5/21 Tot				Total	Total consultant contract cost (\$1,000's)			\$55	
Services completed by this firm (mm/yy) Est. 5/23 Co				Cost o	Cost of consultant services provided by this firm (\$1,000's)			\$32	

As part of the Louisiana DOTD Off-System Highway Bridge program, Infinity Engineering has commenced engineering design work on the replacement of the bridge along Savanne Road crossing over Hanson Canal in Houma, Louisiana. As the prime, Infinity will provide all structural/civil engineering designs for the bridge replacement as well as coordinate all land surveying and environmental services. Infinity has ensured all proper safety measures for flagging and traffic control are followed during site visits, surveying, and measurements.

For the preliminary plans of the project, a hydraulic design was performed to the specified DOTD Hydraulics manual to ascertain all viable drainage design options for the bridge. Additionally, Infinity coordinated with ELOS Environmental to identify and properly delineated all impacted wetlands to the Corps of Engineers guidelines.

If called upon Infinity's engineers have the capabilities to see this project through final design and construction administration. Infinity engineers involved with project: Ricardo Contreras, P.E.; Louis Jackson, P.E.; Kevin Hurtt, E.I.

um or

HEAL NAME

BRIDGE PLAN

Firm name	Infinity Engineering C	Infinity Engineering Consultants, LL				ation Category(i	ies)* Bridge		
Project name	Shintec Water Intake V	and	Platform		Firm responsib	ility (prime or sub	?) Prime		
Project number	IEC-21-009	Owner's name		Shintech Louisiana					
Project location	Plaquemine, LA				Owner's Pro	oject Manager	Nathan Ferring	ton	
Owner's address, phone, email LA-1, Plaquemine, LA 70764 225-684-2105; nferrington@shin-tech.com									
Services comm	enced by this firm	04/21	Tota	l consulta	int contract co	ost (\$1,000's)		\$249	
(mm/yy)									
Services compl	eted by this firm	Under	Cost	of consu	ltant services	provided by this	firm (\$1,000's)	\$249	
(mm/yy)									

Infinity has been tasked with providing engineering services related to the design of a new water intake platform for Shintech's SPP3 plant in Plaquemine, LA. This is a multi-disciplinary design consisting of field services, civil, structural, mechanical, electrical and instrumentation.

The civil and structural scope consists of the design of the following:

- Heavy equipment concrete bridge to the new platform
- Vehicular levee crossing
- Piling and concrete foundations
- Steel platform and drift deflector



Additionally, Infinity is tasked with specifying a jib crane and designing the platform to accommodate the crane loads. Finally, Infinity is to update the calculations for the existing structure to include a

load analysis of proposed piping. The mechanical tasks include the design of the above ground piping from the pump station to the piperack bridge at the levee. This includes preparing ortho drawings, a comprehensive 3D model, isometric drawings, pipe support details, and general arrangements of the equipment. Infinity is to perform a pipe stress calculation, a hydraulic analysis, and participate in HAZOP. The electrical and instrumentation scope primarily included the design of the power distribution and grounding components of the electrical system and the instrumentation components of the project.

The field services scope contained performing hydrographic and topographic surveys of the existing site conditions as well as capturing the conditions with drone photography and videography.

Infinity engineers involved with project: Cindy Gallo, P.E.; Louis Jackson, P.E.; Ricardo Contreras, P.E

Firm name	SJB Grou	SJB Group, LLC Past				erformance Evaluation Discipline(s)* Survey and Other (SUE Services)					ices)
Project name	Dawson	Dawson Creek at Hundred Oaks and Broussard				ridges	Firm r	esponsibility (prime or	sub?)	Sub-Consultant	
Project number	21-DR-L	_A-0095		Ov	wner's nan	ne Fo	orte and	l Tablada, Inc.			
Project location	East Baton Rouge Parish, Louisiana				siana			Owner's Project Man	ager E	Brad Holleman, PLS	
Owner's address	, phone, e	mail	9107 Inter	line Ave	nue, Bator	n Rouge	e, LA 70	809; 225-927-9321; <mark>BH</mark>	Iolleman	@forteandtablada.c	om
Services commenced by this firm (mm/yy)			02/22	Т	Total consultant contract cost (\$1,000's)					\$24	
Services completed by this firm (mm/yy)			2023	C	Cost of	consult	ant services provided b	oy this fi	rm (\$1,000's)	\$24	

Team Members Involved: Karen Kennedy, Austin LaCombe, Wilfred Barry

Firm's Role: Subsurface Utility Engineering

SJB Group performed subsurface utility engineering (SUE) for the proposed Dawson Creek at Hundred Oaks and Broussard Bridges City-Parish Project No. 21-DR-LA-0095.

This project required ASCE 38-02 Quality Level A and B services within the project limits along Hundred Oaks Avenue and Broussard Street. The located utilities included water, gas, telephone, cable and fiber optic. To perform the work, an LA One Call Ticket was completed to initiate contact with all LA One Call Members. A site visit was conducted to investigate any other utility features that might identify a utility owner that was not included in the LA One Call locate and records were requested for all identified utility owners. Appropriate geophysical methods were used to properly designate all underground utilities.

The designations were surveyed by Forte and Tablada and a digital copy of this survey and all above ground features was provided to SJB. This information and the utility records were used to complete the Quality Level B Services. Any conflicts between records and geophysical markings were resolved through additional records research and engineering judgement.

After the design of the bridges is completed, any of the designated utilities in conflict with the proposed improvements will be located with a Quality Level A test hole. The test hole will include precise information on the location, depth, size and type of utility. It is critical to determine the location of the existing utilities to eliminate conflict with the future bridge design.

Page 38 of 65 Prime consultant name: Infinity Engineering, LLC.



Firm name	SJB Grou	p, LLC			Past Perf	ormance Eval	uation Discipline(s)*	Surve	y and Other (SUE Servi	ces)
Project name	UP RR Co	UP RR Corridor (Plaquemine)				Firm respon	sibility (prime or sub?)) Pr	ime	
Project number	H.012851.5 Ow			wner's nam	e Louisiana	ouisiana Department of Transportation and Development				
Project location Iberville Parish, Louisiana					Owner's Project Man	ager	Barrett Smith			
Owner's address	, phone, e	mail	1201 Capit	ol Acce	ess Road, Ba	ton Rouge, LA	; 225-379-1101; Barret	tt.Smit	h@la.gov	
Services commenced by this firm (mm/yy) 0			07/21	. Te	Total consultant contract cost (\$1,000's)			\$194.2		
Services completed by this firm (mm/yy)			02/22	2 C	ost of consult	ant services provided l	by this	firm (\$1,000's)	\$194.2	

Team Members Involved: Matthew Estopinal, Colby Mire, Karen Kennedy, Austin LaCombe, Tyler Foster, Elvis Nguyen, Kyle Haigler

Firm's Role: Topographic Survey and Subsurface Utility Engineering

SJB Group was tasked through a LA DOTD IDIQ retainer contract to provide subsurface utility engineering (SUE), utility surveying, and a topographic survey for this project in Iberville Parish. The project limits ran along the Union Pacific Railroad Corridor between the intersection of LA 1 and Bayou Road, and the intersection of Belleview Drive and Railroad Avenue. The project had a total linear distance of approximately 5,500 ft.

A complete topographic survey including all utilities with depths, all drainage, and finish floor elevations of all buildings that fell within the limits was completed in accordance with the Location and Survey Manual and all current accepted Location and Survey Automation procedures. A drainage map was required as part of the survey and was done in accordance of the LA DOTD Location and Survey Photogrammetry Manuel.

The SUE work was completed in accordance with CI/ASCE Standard 38-02. This project required ASCE 38-02 Quality Level B and C services within designed limits. The Quality Level C limits included a distance of 5,500 feet along Railroad Avenue. The Quality Level B designations were completed at the intersection of Bayou Road and LA 1 Intersection. To perform the work, an LA One Call Ticket was completed to initiate contact with all LA One Call Members. A site visit was conducted to investigate any other utility features that might identify a utility owner that was not included in the LA One Call locate and records were requested for all identified utility owners.





Firm name	SJB Grou	SJB Group, LLC				Past Performance Evaluation Discipline(s)*			* Si	urve	y and Other (SUE Servi	ices)
Project name	MovEBR	MovEBR Jefferson at Bluebonnet				F	irm respon	sibility (prime or su	b?)	Su	ub-Consultant	
Project number	20-CP-HC-0046 Owner			wner's nar	ne	City of Ba	ton Rouge					
Project location	East Baton Rouge Parish, Louisi			iisiana			Owner's Project N	lanag	er	Tom Stephens		
Owner's address	, phone, e	mail	222 Saint I	ouis St	treet, 8 th Flo	oor,	Baton Rou	ge, LA 70802; 225-3	89-31	.58;	<u>TStephens@brla.gov</u>	
Services commer	nced by th	is firm (mm	/yy)	03/21	. 1	Гota	l consultan	t contract cost (\$1,	000's)		\$62
Services completed by this firm (mm/yy) 2023			(Cost	of consulta	ant services provid	ed by	this	firm (\$1,000's)	\$62		

Team Members Involved: Wilfred Barry, Matthew Estopinal, Tyler Foster, Elvis Nguyen

Firm's Role: Topographic Survey and Subsurface Utility Engineering (SUE)

The City-Parish of East Baton Rouge selected Meyer Engineers, Ltd. to perform the engineering design and SJB Group to perform the survey and Subsurface Utility Engineering for the MovEBR Jefferson at Bluebonnet intersection improvements project. SJB Group performed a topographic survey for preliminary design considerations, and prepared a set of plan and profile sheets of the topographic corridor survey.

SJB Group surveyed the tracts adjacent to the project limits, and prepared a property survey depicting the property lines of these tracts as well as the existing right-of-ways for Jefferson Highway and Bluebonnet Boulevard. SJB Group will prepare right-of-way maps for any required right-of-way based upon the final project design.

The Subsurface Utility Engineering was completed in accordance with CI/ASCE Standard 38-02, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data. The Subsurface Utility Engineering for this project includes Quality Level C & D mapping for the length of the project.



Firm name	ELOS Environmenta	I, LLC	Past Pe	erformance Evaluation Discipline(s)*	Environmental	
Project name	LA-1042 & LA- 10 S	pur Bridge Replacements	Firm res	sponsibility (prime or sub?)	Sub	
Project number	H.013982			s name	LADOTD	
Project location St. Helena Parish, LA				Owner's Project Manager	Amanda Ranck	
Owner's address	, phone, email	1201 Capitol Access Road, B	aton Rou	ıge, LA, (225) 379-1232, amanda.ranck@	la.gov	
Services commenced by this firm (mm/yy)			08/20	Total consultant contract cost (\$1,000's)	\$16	
Services completed by this firm (mm/yy)			01/22	Cost of consultant services provided by t	\$16	

<u>Services Provided</u>: wetland delineations, preliminary jurisdictional determination, United States Army Corps of Engineers (USACE) nationwide permit applications, threatened and endangered species research, Categorical Exclusions checklist (CE), and solicitation of views (SOV).

ELOS was contracted by Burke-Kleinpeter to provide environmental services for H.013982. The Louisiana Department of Transportation and Development (LADOTD) proposed the replacement of four existing bridges including one site at LA 1042 over Choctaw Creek, one site at LA 1042 over an unnamed creek, one site at LA 10 Spur over Raby Branch, and one site at LA 10 Spur over St. Joseph Branch in St. Helena Parish. This project is one of many bridges part of the DOTD Rural Bridges Phase I projects, for which ELOS was the

environmental consultant conducting the environmental reviews and documentation. This project primarily involved wetland delineations and a wetlands finding report. Evidence observed and documented indicates that approximately 0.22 acre of the site location meets the established criteria to be considered "Section 404 wetlands." In addition, approximately 2.19 acre of this site meet the established criteria to be considered "other waters of the U.S." The DOTD will mitigate the wetlands impacted by construction activities for this project by minimizing impacts as listed in the Louisiana Standard Specifications for Roads and Bridges, 2016 edition, and mitigate for lost wetland habitats by reseeding with appropriate plants and seedlings. No threatened and endangered species surveys were required for this project.



Site 1. LA 1042/ Choctaw Creek: Recall No. 058492)

Site 2. LA 1042/ unnamed creek: Recall No. 058494

Site 3. LA 10 Spur/ Raby Branch: Recall No. 620045

Site 4. LA 10 Spur/ St. Joseph Branch: Recall No. 620046

Firm Personnel Involved: Cory Ricks, Hunter Perrilloux, Mike Hill, and Basile Dardar

Page 41 of 65 Prime consultant name: Infinity Engineering, LLC.

Firm name	ELOS Environmenta	al, LLC		F	Past Perforr	mance Evaluatio	on Discipline(s)*	Environmer	ntal
Project name	LA-4 Rural Bridge Ir	nitiative				Firm responsibility (prime or sub?)			
Project number	H.014268		Owner's	name	LADOTD)			
Project location	Jackson and Ca	Idwell Parishes				Owner's Proje	ct Manager	Amanda Ranck	
Owner's address,	phone, email	1201 Capitol A	Access Roa	ad, Baton	Rouge, LA,	, (225) 379-123	2, amanda.ranck@	la.gov	
Services commen	ced by this firm (mm/	(уу)	08/20	Total cor	nsultant cor	ntract cost (\$1,0	000's)		\$16
Services complete	ed by this firm (mm/	yy)	01/22	Cost of consultant services provided by this firm (\$1,000's)				00's)	\$16



<u>Services Provided</u>: wetland delineations, preliminary jurisdictional determination, United State Army Corps of Engineers (USACE) nationwide and Department of Natural Resources CUP/Consistency Determination permit applications, threatened and endangered species research, Categorical Exclusion checklist (CE) and solicitation of views (SOV).

ELOS was contracted by Burke-Kleinpeter to provide environmental services for H.014268. The Louisiana Department of Transportation and Development (LADOTD) proposed the replacement of 8 separate bridges located on LA-4 in Jackson and Caldwell Parishes. This project is one of many bridges

part of the DOTD Rural Bridges Phase II projects, for which ELOS was the environmental consultant conducting the environmental reviews and documentation. This project involved surveys for threatened and endangered species, including investigations for the Northern Longeared Bat, Louisiana Pine Snake, and the Red Cockheaded Woodpecker. Evidence observed and documented indicates that approximately 17.40 acres of these sites meet the established criteria to be considered "wetlands" and approximately 6.05-acres of these sites meet the established criteria to be considered "other waters of the U.S.".

Site 1. Unnamed Creek: Recall No. 021100 Site 2. Unnamed Creek: Recall No. 021120 Site 3. Bear Creek: Recall No. 021130

- Site 4. Squirrel Creek: Recall No. 046750
- Site 5. Sugar Creek: Recall No. 046760
- Site 6. Bill's Creek: Recall No. 046782
- Site 7. Lost Creek Relief: Recall No. 046786

Firm Personnel Involved: Cory Ricks, Hunter Perrilloux, Mike Hill, and Basile Dardar

Firm name	ELOS Environmenta	ELOS Environmental, LLC				mance Evaluatio	n Discipline(s)*	Environmer	ntal
Project name	Savanne Road Bridg	Savanne Road Bridge Over Hanson Canal					Firm responsibility	(prime or sub?)	Sub
Project number	H.014267		Owner's	name	LADOTD				
Project location	Terrebonne Parish, LA					Owner's Projec	t Manager	Amanda Ranck	
Owner's address, phone, email 1201 Capitol Access Road, Ba				ad, Baton	Rouge, LA,	(225) 379-1232	2, amanda.ranck@l	a.gov	
Services commen	ced by this firm (mm/	(yy)	08/20	Total cor	nsultant cor	ntract cost (\$1,0	00's)		\$16
Services completed by this firm (mm/yy) Ongoing Co					consultant s	services provided	d by this firm (\$1,00)0's)	\$16

<u>Services Provided</u>: Scenic Rivers and Streams Permits, USACE Permits, Wetland Delineation and Jurisdictional Determination, Threatened and Endangered Species, Solicitation of Views, and Categorical Exclusion Checklist.

ELOS was contracted by Infinity to provide environmental services for the improvement of DOTD Bridge Replacement projects. LADOTD proposed the replacement of the existing Savanne Road Bridge over Hanson Canal (**Recall No. 020165**) with a new concrete reinforced bridge at approximately 90° 48' 56.088" West and 29° 35' 37.308" North.

The existing bridge, located approximately 0.82 miles north of LA 182 in Terrebonne Parish, was recommended for replacement by the Louisiana Department of Transportation and Development (LA DOTD). The existing structure was a 4-span, 57-foot-long, and 24-foot-wide concrete bridge. The proposed action was to replace the existing bridge with three 20-foot spans, totaling 60 feet, with 3:1 riprap abutments and a proposed finished grade at branch crossing at 5.51 in accordance with current LADOTD and AASHTO guidelines.

This project included a wetland delineation and jurisdictional determination from the USACE, a Section 404 permit from the USACE, a scenic rivers and streams permit from the LDWF, and a threatened and endangered species survey for West Indian Manatees (*Trichechus manatus*). ELOS was also tasked with preparing and mailing the solicitation of views letters to the relevant agencies and responding to comments. This project qualified for a categorical exclusion (CATEX), meaning a detailed environmental analysis was not required. ELOS prepared and submitted the CATEX documentation.



Firm Personnel Involved: Cory Ricks, Hunter Perrilloux, Mike Hill, and Claire LaBarbera

18. Approach and Methodology:

It is our understanding that the LADOTD seeks to develop preliminary engineering plans for the replacement of a bridge along an undivided roadway in Pine Grove, Louisiana. Infinity Engineering Consultants is a Metairie, Louisiana-based firm, located just an hour and a half from the project site. Distance from the project site will not hinder Infinity's effort to conduct field investigations and advanced measurements, as the Infinity team has provided engineering design work along the Gulf Coast. With Infinity's unique multi-disciplinary skill sets and structural engineering experience, the firm is well positioned to project manage the preliminary design phase of the proposed off-system bridge replacement.

We have reviewed the background information provided in the RFQ documents and took time to study the geography of the bridge. Due to its residential and rural setting, the bridge designs will have to be mindful of the impacts to the roadway closure, as well as environmental considerations. From satellite imaging, it appears as if McLin Road turns into Lombardo Lane, at which point the road dead ends. The off-system road bridge as part of this request for qualifications provides access to several residential properties along McLin Road and Lombardo Lane. With no other roadway providing throughput, careful consideration will be given on how to minimize complete road closures to allow access to the residential properties.



McLin Road over Darling Creek

As outlined in the scope of services, beyond engineering design, this contract requires topographic

survey, right of way sketches, and wetland delineation to be performed. To perform this project, Infinity has assembled a talented team of professionals, all familiar with the local site conditions and experience in preparing supporting information for the design of a new bridge. The responsibilities of each team member are as follows:

INFINITY ENGINEERING CONSULTANTS, LLC:

> Project Management, Civil Engineering, Structural Engineering, Cost Estimating SJB Group, LLC.:

> Topographic, Right-of-Way sketches, and Subsurface Utility Engineering

ELOS ENVIRONMENTAL:

> Wetland Identification and Delineation, Wetlands Finding Report, Environmental Clearance

Infinity Engineering has been integrally involved with the engineering design and reconstruction of several public and private bridge projects. Among those similar to this RFQ were the design packages for the LADOTD off-system bridge replacement of bridges along Savanne Road in Houma, LA and North River Road in Tangipahoa Parish. The design packages Infinity prepared included engineering and environmental regulatory permitting for the preliminary designs for the replacement of these off-system bridges. Therefore, Infinity Engineering is familiar with the standards and practices required when designing an off-system bridge for LADOTD, including flagger safety and cybersecurity training protocols. As a company, we commit to continuing to follow those standards of providing quality design solutions.

PRELIMINARY PHASE

For the Cleve Kennedy Road bridge replacement project, Infinity's method of execution will include several deliberate steps. We envision that during

Page 44 of 65 Prime consultant name: Infinity Engineering, LLC.

the preliminary phase we will explore several proven concepts to address the unique design conditions that ultimately led to the poor rating of the previous bridge structures. These will potentially include designing for conditions that may result from scouring, including armoring and reverting the waterway bottom and providing positive groundwater drainage. These are design concepts that will be fully vetted out.

Some may prove feasible and beneficial, and other concepts may be added as the process evolves. Upon conclusion of the preliminary phase, Infinity will present our findings and recommendations in a report that we will review with DOTD. We intend for the design process to be a collaborative effort between our team and the Owner. With a mutually agreeable concept, we will move forward to the next phase.

The **Preliminary Phase** will be critical as it will serve to firmly identify and quantify the special design conditions that the replacement bridge project must entail. To determine the most logical and feasible solution, during this phase we intend to:

- 1. Meet with the Owner's representatives to collect record information for the sites; such as:
 - a. Typical bridge traffic type, frequency, and magnitude
 - b. Previous construction plans, surveys, and geotechnical studies
- 2. Obtain data regarding the drainage, and historical flow data as it pertains to the site.
- 3. Review previous geotechnical reports that are on file.
 - a. Review the geologic history of the region and site.
 - b. Devise conceptual solutions for a replacement bridge structure as it pertains to soil matters.
 - c. Develop a field exploration plan and obtaining new soil borings for the site.
- 4. Coordinate with the surveyor (SJB Group) and the design team to:
 - a. Perform a topographic survey of the existing waterway, embankment, and roadway near the bridge to identify and study the surface profiles of the site.
 - b. Perform a topographic survey to locate existing features
 - c. Prepare a Right of Way sketch.
- 5. Perform a hydraulic design to determine drainage alternatives.
- 6. Prepare documentation for solicitation of views and categorical exclusion.
- 7. Prepare permit drawings for use in obtaining COE Environmental Clearance permits (ELOS), as required.
- 8. Prepare a Wetland Study (ELOS)
 - a. Conduct ground level investigation to verify the right of way.
 - b. Locate wetlands on a quadrangle sheet and layout map.
 - c. Document soil samples.
 - d. Prepare Wetland Determination Data Form with GPS sample point locations.
- 9. Develop a preliminary design for the replacement bridges based on the data collected and research performed in the preceding steps.
- 10. Prepare an estimated construction cost estimate for the proposed design.
- 11. Prepare a preliminary report summarizing the above documentation and preliminary plan.

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Topographic Survey

SJB Group, LLC will conduct topographic surveying using proven survey technology and techniques to meet the requirements of the LA DOTD Location and Survey Manual, LA DOTD standard topographic survey guidelines, and the LA DOTD Software and Deliverable Standards for Electronic Plans for the duration of this project's contract. SJB Group personnel are thoroughly familiar with the topographic surveying requirements in LA DOTD's Location and Survey Manual and Addendum "A". This familiarity and experience has been gained from many years of completing topographic surveying task orders through IDIQ contracts with the Location and Survey section. SJB Group will provide a thorough, high quality survey to LA DOTD standards in Microstation and InRoads, certified with CAD Conform.

SJB Group has the capacity to complete project tasks in accordance with the project schedule and budget in a safe manner. All SJB Group field personnel are required to have current Traffic Control certifications for their position, which includes the ATSSA Flagger certification, Traffic Control Technician, and/or Traffic Control Supervisor. The project will be performed according to the procedures and guidelines set forth in the LA DOTD Location and Survey Manual. The Project survey control and horizontal alignment will be based on the Louisiana State Plane Coordinate System, (NAD-83), as determined by Static G.P.S. observations. Field crews will use electronic data collectors with the LA DOTD Feature Code Library to enter unique codes for all surveyed features as they are collected. Office personnel will process and perform QA/QC steps to ensure that features were coded correctly, and then use Bentley InRoads Survey V8i to produce CAD survey graphics to LA DOTD standards. Topographic Survey data will be collected to sufficient detail to allow the final deliverable to be used for the design and development of the bridge's improvement plans. Throughout the progression of the project, SJB will implement an in-house peer review system for project tasks. QA/QC will be performed according to checklists found in "Addendum 'A' to the Location and Survey Manual" and in-house QA/QC procedures that have been developed by SJB Group through years of delivering high quality work to LA DOTD standards.

Upon completion of field data collection and office data processing, SJB Group will submit project deliverables via ProjectWise, per LA DOTD requirements, unless specified otherwise. All electronic deliverables will be collected, processed, and delivered in conformation with LA DOTD Software and Deliverable Standards. The Topographic Survey deliverable will include, at a minimum, Survey graphics in DGN, FWD file of all survey control and data, DTM of existing surface, ALG file of the surveyed alignment, TXT file of all survey points, Raw GPS Observation files, OPUS GPS Solution reports, DOTD Field Books and a certification letter for all submitted deliverables signed and stamped by the Louisiana Licensed Professional Land Surveyor of record for each task order.

Subsurface Utility Engineering (SUE)

SJB is well versed in the recently updated SUE standard, <u>ASCE 38-22 Standard Guideline for Investigation and Documenting Existing Utilities</u> and the new requirements included therein. We are also familiar with LA DOTD policies and procedures and will conduct all work in accordance with these standards and use the proper traffic control and obtain all necessary permits and rights of entry. SJB owns a vast collection of equipment necessary for completion of Quality Level A-D services.

Utility Coordination/Design Capabilities

SJB has vast experience in performing utility coordination during design, preconstruction, and construction phases for LA DOTD projects. This experience includes the creation of a utility conflict matrix, coordination with utility owners in an individual or group environment, design, review and compilation of relocation plans, generation of cost estimates, and preparation of required LA DOTD Utility Relocation Section documents such as URA's and the associated supporting documentation. We also have staff with experience working with individual utility owners and contractors on the construction side. This includes monitoring of relocation and installation work, ensuring compliance with construction plans and schedules and negotiating required field changes. Our experienced Land Surveying staff have the capabilities to provide accurate as-built documentation on the final location of installed utilities.

Quality Level D Services

SJB will identify and contact utility owners that may have facilities that could be affected by the project. Utility owners will be identified through LA OneCall requests, field investigation, review of State Board of Public Utilities franchise areas, clearinghouse websites, GIS maps and the National Pipeline Mapping System. Records will be documented and gathered information will be used as an aid in the identification of the number of utilities, type, size, and material composition of utilities, but they will not be used as a substitute for actual geophysical location.

Quality Level C Services

Inclusive of Quality Level D Services, SJB will identify and survey existing utility surface features. SJB will correlate the applicable utility records to these surveyed features and determine when records and features do not agree and use professional judgement to resolve any discrepancies.

Quality Level B Services

Inclusive of Quality Level C Services, SJB will designate, and mark known underground utilities within the project limits using an appropriate suite of geophysical equipment. SJB will use our standard search protocol using electromagnetic and GPR technologies to conduct sweeps within the project area to determine the existence and approximate location of undocumented, abandoned, inactive or otherwise unknown utilities. Each utility run shall be labeled, and this information will be noted on the field sketch to assist the surveyor for quality control purposes.

Quality Level A Services

SJB can determine the exact location and elevation of critical utilities which may conflict with the proposed construction or design through the use of our HydroVac Truck. After reviewing utility information provided from the Quality Level B investigation, SJB can perform Test Holes on utilities where directed by the design engineer or where it is determined that existing utilities may be in conflict with the proposed project design by utilizing non-destructive vacuum excavation equipment to expose the utilities at specific points which are then located in the field by our survey department.

SCHEDULE

The overall time for the completion of the scope of services listed in the RFQ is (4) years. Upon notice to proceed and executed contract, we anticipate the final submittal of deliverables to occur within 4 years, or sooner. This is also contingent upon timely receipt of comments and information from DOTD and barring any unforeseen conditions outside of our control.





Page 48 of 65 Prime consultant name: Infinity Engineering, LLC.

19. Workload:

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

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

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

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

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

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

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

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
Infinity Engineering			Off-System Highway Bridge Program Savanne Road	
Consultants, LLC.	Bridge	H.014267.5	Over Hanson Canal	\$45,096
Infinity Engineering			Off-System Highway Bridge Program North River Road	
Consultants, LLC.	Bridge	H.014265.5	Over Irving Branch	\$45,096
SJB Group, LLC	Other (SUE)		DBE Supportive Services – Region A (2020 – 2023)	\$55,955
SJB Group, LLC	CPM	H.013579.6	Pecue Lane/I-10 Interchange II – East Baton Rouge Parish	\$2,175
SJB Group, LLC	СРМ	H.001820.6	LA 485: Bridges Near Allen – Natchitoches Parish	\$40,639
SJB Group, LLC	СРМ	H.001344.6	US 190: LA 437-US190 BUS (PH 1) – St. Tammany Parish	\$53,180
SJB Group, LLC	СРМ	H.002375.6	Amite R. Br Near French Settlement – Livingston Parish	\$996
SJB Group, LLC	СРМ	H.002980.6	I-10 Overpass over US 165 and MP R.R. –	\$138,304
			Calcasieu/Jefferson Parish	
SJB Group, LLC	СРМ	H.010018.6	I-10: NO East Drain Canal Bridge Replace – Orleans Parish	\$25,315
SJB Group, LLC	CPM	H.003184.6	I-10: Texas State Line – E. of Coone Gully – Calcasieu Parish	\$131,752
SJB Group, LLC	СРМ	H.004634.6	Juban Rd Widening (I-12 – US 190) – Livingston Parish	\$17,331
SJB Group, LLC	СРМ	H.012588.6	I-10: Atch Basin Br – W Baton Rouge P/L – Iberville Parish	\$27,035
SJB Group, LLC	СРМ	H.001234.6	LA 1: Port Allen Canal Br Repl (Ph1) (HBI) – West Baton	
			Rouge Parish	۶۷۵,۵۵۵ م
SJB Group, LLC	СРМ	H.000665.6	UP R.R. Overpass Near Bonita (HBI) – Morehouse Parish	\$36,496
SJB Group, LLC	Other (SUE)	H.001820.6	LA 485: Bridges Near Allen – Natchitoches Parish	\$78,839
SJB Group, LLC	Survey	H.012685.5	LA 385: Ryan Street Intersection IMPRS – Calcasieu Parish	\$34,363

Burk-Kleinpeter	Survey/Road	H.013952; H.013963;	Contract No. 44-17597 16 State Project Numbers (33	\$83,721
(Prime)		H.013966; H.013968;	Structures) Rural Bridge Replacement Initiative, Districts 03,	
SJB Group, LLC		H.013982; H.013984;	07, 61, and 62	
(Subconsultant)		H.013996; H.013976;		
		H.013997; H.013970		
Digital Engineering &	Survey	H.013716.5	US 167: Camellia Blvd – Churchill Dr. (LAF) – Lafayette Parish	\$39,953
Imaging (Prime)				
SJB Group, LLC				
(Subconsultant)				
Stanley Consultants,	Survey	H.014886.5	US 90: Tulane Ave – Danzinger Bridge – Orleans Parish	\$54,432
Inc. (Prime)				
SJB Group, LLC				
(Subconsultant)				
ELOS Environmental, LLC	Environmental	H.014242	LA-124 Big Branch, Sandy etc.	\$5,085
ELOS Environmental, LLC	Environmental	H.014243	LA-472 Indian and Big Bear	\$57
ELOS Environmental, LLC	Environmental	H.014245	LA-119 Creeks & Bayou Pierre	\$111
ELOS Environmental, LLC	Environmental	H.014247	LA-399 Creeks, Little 6 Mile Creek	\$6,200
ELOS Environmental, LLC	Environmental	H.014248	LA-124 Creeks, Broke Leg Bayou	\$57
ELOS Environmental, LLC	Environmental	H.014249	LA-126 Creek	\$3,690
ELOS Environmental, LLC	Environmental	H.014250	LA-577 Creek & Bull Bayou	\$3,496
ELOS Environmental, LLC	Environmental	H.014268	LA-4 Creeks, Bear, Squirrel	\$134
ELOS Environmental, LLC	Environmental	H.013958	Carpenters	\$3,783
ELOS Environmental, LLC	Environmental	H.013970	LA 717	\$5,476
ELOS Environmental, LLC	Environmental	H.013984	LA 16 Bridge	\$2,054
ELOS Environmental, LLC	Environmental	H.014265	N. River Road Bridge Over Irving Branch	\$6,655
ELOS Environmental, LLC	Environmental	H.014267	Savanne Road Bridge Over Hanson Canal	\$6,640

(Add rows as needed)

DO NOT SUM

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

** Round to the nearest dollar. <u>**Do not**</u> 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. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

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

	ATSSA TRAINED		ATSSA
PROOF C	DF TRAINING HEREBY RECOGNIZES THAT	PROOF OF TRAINING THIS CERTIFICATE HEREBY RECOGNIZES THAT	
Ricardo Contreras has attended Traffic Control Technician-LA State Specific Training Course		Ricar h Traffic Control Su Tra	do Contreras as attended pervisor-LA State Specific Inno Course
<u>4/28/2020</u> to <u>4/28/2020</u> Date	Vice President of Member Services	4/29/2020 to 4/30/2020 Date	Vice President of Member Services
Baton Rouge, LA Location	stabland, Technikaan President, CEO	Locaton	Alacci Tresident, CEO
Anarian Tatita Bahay Bervices Association ATSBA.com		AT351	American Thatfic Ballay Samilan Association ATSGA.com

LOUISIANA ECONOMIC DEVELOPMENT	
DIVISION OF SMALL BUSINESS SERVICES	
This certification acknowledges that	
Infinity Engineering Consultants, LLC is Certified-Active as a Small Entrepreneurship with Louisiana Economic Development's Hudson Initiative.	
This certification is valid from 7/22/2022 to 7/22/2023 Certification No. 8402	
Stephunif Artman Stephanie Hartman, Director, Small Business Services	

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Infinity Engineering Consultants,	Mr. William Thomassie4001 Division Street
LLC	Metairie, Louisiana 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003109	Active	03/09/2004	09/30/2024	Mr. William John Thomassie # PE.0027421 ; Mr. Raoul Vincent Chauvin III # PE.0028272

Page 52 of 65 Prime consultant name: Infinity Engineering, LLC.

SJB Group

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

Public Address:

P. O. Box 1751

SJB Group, LLC

Baton Rouge, Louisiana 708211751

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0002119	Active	01/14/1997	03/31/2023	Mr. Wilfred B. Barry # PE.0017452 - Active ; Mrs. Karen Lynn Kennedy # PE.0028547 - Active

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
	P. O. Box 1751
SJB Group, LLC	

Baton Rouge, Louisiana 70821-1751

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000390	Active	01/14/1997	03/31/2023	Mr. Wilfred B. Barry # PLS.0004612 - Active

Page 53 of 65 Prime consultant name: Infinity Engineering, LLC.

4	Amer Servi	rican Traffic Safety ices Association		Construction Streamston IndextEgroup Advandation	Office of Tech	nical Services	national highway institute
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	N/AS	Wilfred Barry		CLI	Wilfro	d Barry	G
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21. QA/QC Plan and/or Work Plan:

If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

Section 1 - Introduction

1.1 Defining Plan Quality

The dictionary defines **Quality Control** as the inspection, analysis and action required to ensure quality of output; the operational techniques and the activities used to fulfill and verify requirements of quality; a procedure for keeping quality of inputs or outputs to specifications.

In accordance with LaDOTD expectations, the quality plan shall strive to shape and guide the product, and be measured against the following characteristics:

Complete:

- 1) The plans will be an accurate and thorough representation of the existing project site and terrain features.
- 2) The plans will be an accurate and thorough representation of the proposed project features and details to be constructed.
- 3) The plans will be supported by a thorough and detailed documented development process.
- 4) The plans will be developed with the active involvement of all affected parties and developmental stage owners throughout all stages of development.
- **Consistent**: The plans will be consistent with other plans developed for LADOTD and will comply with all standards and guidelines set by the LADOTD design manuals, AASHTO design guidelines and electronic standards.
- Clear: Instructions provided in the plans and specifications will leave little room for subjectivity.
- **Correct:** Preparation of the plans such that the delay, postponement, or cancellation of the project letting is avoided.
- **Constructible:** The plans will present a project that can be constructed and will not require change orders attributable to the designer.

It is Infinity's responsibility to maintain and enforce the quality plan as described in this document.

1.2 Definition of Terms and Abbreviations

The use of some key terms used in this document will be understood to have the following meanings:

Quality Control (QC)

Quality Control is defined as the operational techniques and the activities used to keep the quality of inputs or outputs to specifications; to fulfill and verify requirements of quality.

Quality Assurance (QA)

Quality Assurance refers to those actions, procedures, and methods employed at the management and senior technical levels to observe and ensure that prudent quality procedures are in place and are being carried out and that the desired result of a quality product is achieved.

<u>Designer</u>

The designer is the engineer directly responsible for the development of design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The designer will be licensed by the State of Louisiana as a professional engineer or certified as an engineer intern. The detailer is the individual directly responsible for the creation of CAD drawings. During the design process, the designer must follow the design criteria established for the project. Bridge type, size, and location (T, S &L) must be developed first and approved by the supervisor or team leader prior to proceeding with the design of structural components.

The design calculations shall be organized and maintained in a standard calculation book format. The calculation book checklist is included in Appendix B of *LADOTD Bridge Design and Evaluation Manual (BDEM)*. The designer must communicate with the detailer and supervise the detailing work to ensure that the drawings adequately and accurately present the design information. Both the designer and the detailer shall check their own work and minimize errors.

<u>Checker</u>

The design checker is the engineer responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The design checker must be licensed by the State of Louisiana a professional engineer or certified as an engineer intern; however, if the designer is an engineer intern, the design checker must be a professional engineer. The detail checker is the individual responsible for performing a full review of the CAD drawings.

The detail checker can be a designer or a detailer. The design checker and detail checker shall not be the ones who perform the original design and detailing. During the design check process, the design checker must verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items, and cost estimate. The design checker may perform a redline check of the designer's calculations or produce an independent set of calculations and compare the results; the supervisor or team leader shall determine which method to use depending on the complexity of the project. Regardless of the checking method employed, the designer's calculations are the calculations of record and must be updated to correct any errors or omissions discovered by the design checker. The calculations of the design checker should also become a part of the calculation of record when independent checking calculations are produced. The design checker should also ensure that the drawings adequately and accurately present the design information.

<u>Reviewer</u>

The reviewer is the engineer responsible for ensuring that the QC process as described in Step 4 is complete and the design calculations, drawings, special provisions, and cost estimate are in accordance with LADOTD Bridge Design practices, policies, and procedures. The reviewer must be licensed by the State of Louisiana as a professional engineer and must have substantial experience in the design of similar structures. During the quality assurance process, the reviewer shall perform a cursory review of all documents in the QA information package submitted by the designer. This review should focus on the constructability of the plan details; areas of critical structural importance; areas where, based on the reviewer's experience, mistakes may be typically found; and areas that may be new to the design practice. The reviewer may, but need not, produce independent calculations to verify submitted information. The reviewer shall provide feedback to the designer and resolve all issues. Upon completion of the QA process, which shall be no later than the 98% final plans stage, the design calculations, plan details, special provisions, and cost estimate shall be considered as final. At this point, the QC/QA certification as included in Appendix D shall be signed by the designer, design checker, detail checker, and reviewer.

Engineer of Record (EOR)

The EOR is the engineer responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions if required. The EOR must be licensed by the State of Louisiana as a professional engineer and must have commensurate experience in the design of similar structures. The EOR can be the designer, the design checker, the reviewer, or the supervisor/team leader who is directly involved in the project design activities. The responsibilities of the EOR are as follows:

- 1) Ensure the QC/QA certification is signed by all responsible parties. Ensure the geotechnical design information shown on bridge plans is costamped by a Geotechnical Engineer and the hydraulic information shown on bridge plans is co-stamped by a Hydraulic Engineer. If practical, the hydraulic information and geotechnical information should be presented on separate sheets to reduce the engineering stamps on a sheet. When more than one engineering stamp is required on a sheet, the responsibilities for each engineering stamp shall be clearly defined.
- 2) Assemble design calculations from all designers including the final geotechnical analysis report and the hydraulic report from the geotechnical engineer and the hydraulic engineer, finalize the calculation book, and seal the cover sheet of the calculation book.
- 3) Ensure the names of the designer, design checker, detailer, detail checker, and reviewer are correctly shown on the title block of each plan sheet. Stamp all plan sheets or designate a designer, design checker, or reviewer who shall be licensed by the State of Louisiana as a professional engineer to stamp the sheets developed under their supervision. The EOR must stamp the general notes sheets.
- 4) Ensure 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.

Phase Review

Phase Review refers to the formal review by various disciplines at various stages of the plan development process.

Project Manager (PM)

The PM is the person responsible for the planning, coordination and controlling of a project from inception to completion, meeting the project's requirements and ensuring that each project is completed on time, within budget, within scope and to required quality standards.

Project Quality Control Plan

The methods and processes defined in this manual will serve as the Project Quality Control Plan (PQCP) for each project.

Quality Assurance Certification

Quality Assurance Certification refers to a signed statement by the Project Manager certifying that a written, pre-approved Project Quality Control Plan is in place and has been adhered to.

1.3 Purpose

This Quality Control / Quality Assurance Manual is intended to establish a benchmark for effective development of quality control and to assure that quality control has been effectively implemented. The manual provides for coordinated processes which will assist project development by providing mechanisms for:

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- 1) Identifying design considerations which DOTD experience has shown repeatedly require specific attention.
- 2) Providing helpful checklists developed by each major discipline for each phase of project development.
- 3) Providing sufficiency checklists which enumerate the items and the documents required to be submitted with phase submittals. Completion and submittal of the checklists required with each phase review is the responsibility of the designer.

The *LADOTD Bridge Design and Evaluation Manual (BDEM)* has the objective of obtaining uniformity and establishing standard policies and procedures in the preparation of engineering and construction plans for bridge and highway structures in Louisiana. The BDEM will be followed for all LADOTD projects regardless of project delivery methods (Design-Bid-Built, Design-Built, or other methods). Any proposed deviations from the BDEM will require approval of the LADOTD Bridge Design Engineer Administrator before implementation. Detail justifications will be submitted along with the request. Approved deviations from BDEM shall be noted on the design criteria of the project and contract plans as appropriate.

1.4 Objective

The main objective of the Quality Control process for design projects is to provide a mechanism by which all construction plans can be subject to a systematic and consistent review. The outcome of the review should create a set of quality project plans, which should be substantially error free.

A secondary objective of the Quality Control process is to provide for a well-documented "trail" of the design process. A properly documented project file should be a by-product of the quality control process. Another secondary objective of the Quality Control process is to provide information feedback from reviews to the designers.

1.5 Quality Control Processes

The Quality Control process includes:

- 1) Quality planning, training
- 2) Providing clear decisions and directions
- 3) Constant supervision
- 4) Immediate review of completed activities for accuracy and completeness
- 5) Documenting all decisions, assumptions, and recommendations.

In the construction plan development process, it is the clear responsibility of the designer to ensure all project elements are economical, accurate, properly prepared, coordinated, checked, and completed.

All designers and reviewers must recognize that quality is the result of several processes. It requires many individuals performing many appropriate activities at the right time during the plan's development process. Quality Control does not solely consist of a review after a product is completed. Design personnel shall follow established design policies, procedures, standards and guidelines in the preparation and review of all design products.

Section 2 - Project Quality Control Requirements

The methods and processes defined in this manual will serve as the Project Quality Control Plan (PQCP) for each project. The Project Quality Control Plan details the proposed methods or processes of providing quality control for all work products. The plan shall include, but is not limited to, the

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following areas:

- 1) Organization
- 2) Quality Control Reviews
- 3) Proposed method of documentation of comments, coordination responses and quality assurance records; and
- 4) Quality Assurance Certification

2.1 Plans Development Requirements for Review

Properly completed QA Checklists for all applicable disciplines, signed and dated by the checker, will be submitted with the review prints to demonstrate that all items were checked.

2.2 Conformance to CAD Standards

All plans must meet the CAD/Drafting standards as specified in the engineering contract.

2.3 Plans Reviews

In addition to plans checking, the designer will conduct a design review of all documents prior to submitting the documents to the LADOTD. This review shall include, as a minimum, the following activities:

- 1) Compliance with project requirements
- 2) Technical accuracy and adequacy
- 3) Compatibility with other associated project documents
- 4) Compliance with previous review comments

2.4 Design Documentation Requirements

To facilitate QC reviews of each project, the designer will prepare a written "Project Design Criteria Report" at the onset of the work.

Section 3 - Organization

3.1 Process

The team must be committed to the QC/QA process to ensure a quality product. The reviewing sections and individuals have specific responsibilities as part of the process.

3.2 Quality Control Responsibilities

The Project Manager is the person responsible for the planning, coordination and controlling of a project from inception to completion, meeting the project's requirements and ensuring that each project is completed on time, within budget and to required quality standards. The PM ensures that all phase reviews have occurred and have been completed, that all comments have been satisfactorily addressed and that all forms and checklists have been completed by the appropriate personnel. The PM is ultimately responsible for each project's adherence to the quality control plan.

The Engineer of Record is responsible for accuracy and completeness of the plans and related designs prepared for the project. The designer is responsible for the quality of work of each person involved in the efforts to bring individual projects to production readiness.

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Section 4 - Quality Control Reviews

4.1 Design Review Requirements

Design review checklists included in this guideline are intended to assist the designer in preparing an adequate submittal. The sufficiency checklists included in the guideline establishes the submittal requirements which must be met to satisfy the documentation requirements for each project.

4.2 General

The reviewer will be an experienced engineer who was not actively involved in the preparation of the product.

4.3 Phase reviews

4.3.1 Review process

At each submittal stage, the Project Manager will review the submittal for the degree of completeness required by that phase. Plans will be returned to the designer if they are incomplete, which could cause delays to the project's schedule.

4.3.2 Review Reports

Comments from phase reviews can be in the form of marked-up plans, meeting minutes (as in a plan-in-hand review meeting) or review memoranda. It is the responsibility of each reviewer to ensure that their comments are submitted to and recorded with the Project Manager. It is the Project Manager's responsibility to compile comments, document the comments and distribute the comments to the designer and others if necessary. It is then the designer's responsibility, in consultation with the Project Manager, to review the comments and to determine how each comment will be addressed. The designer will prepare a formal response to the PM stating how the comment will be addressed. The Project Manager will forward these responses to the appropriate reviewer and will ensure that all comments and responses have been documented in the project files. It is the designer's responsibility to ensure that comments are incorporated into the construction plans as appropriate.

4.3.3 Checking Drawings

Drawings are prepared under the direction of an assigned designer. They are developed progressively by an interactive process using sources of information such as survey data, reports, record data, preliminary sketches, samples, official maps, etc., in conformance with the requirements, design criteria, and standards and guidelines required by DOTD.

Section 5 - Method of Documentation of Comments, Coordination and Responses

5.1 Documentation of Comments and Responses

All comments made by phase reviewers shall be recorded either by copy of memos, e-mail, letters and/or marked plans received from the reviewers. In the event that comments are received through meetings with reviewers, there shall be minutes prepared that summarize the comments received. Copies of all comments and responses shall be kept in the project files.

5.2 Requests for Changes to the Scope

The PM and the designer shall evaluate comments or requests that are not covered in the "Final Project Scope."

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Section 6 - Quality Assurance

6.1 General

QA does not include only periodic reviews to ensure compliance with the QC process, but also includes review of several other established processes. The Project Manager shall ensure that appropriate levels of review (and cooperativeness in the review process) have occurred for:

- 1) Constructability
- 2) Bidability
- 3) Value Engineering
- 4) Project Documentation

QA also incorporates a general review of personnel to ensure an acceptable level of expertise is maintained for quality design products. Communication is also a vital element in all processes. QA includes the review of the level and quality of communications and documentation accomplished during the various processes.

References

Louisiana Department of Transportation and Development "Construction Plans Quality Control/Quality Assurance Manual"

22. Sub-consultant information:

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
SJB Group, LLC.	PO Box 1751	Karen Kennedy, P.E.	(225) 769-3400
	Baton Rouge, LA 70821	karen.kennedy@sjbgroup.com	
ELOS Environmental	607 W. Morris Ave.,	Lucas Watkins,	(985) 662-5501
	Hammond, LA 70403	lwatkins@elosenv.com	

(Add rows as needed)

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

Not Applicable.



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Infinity Engineering Consultants, LLC

is Certified-Active as a Small Entrepreneurship with Louisiana Economic Development's Hudson Initiative.

This certification is valid from 7/22/2022 to 7/22/2023 .

Certification No. 8402

Stephanie Hartman, Director, Small Business Services



November 7, 2022

INFINITY ENGINEERING CONSULTANTS, LLC Attn : Raoul Chauvin 4001 Division Street Metairie, La 70002

Dear Mr. Chauvin:

The Regional Transit Authority (RTA) have received your firm's Disadvantaged Business Enterprise (**DBE**) and Small Business Enterprise (**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</u> <u>Work codes</u>:

NC541330	Engineering Services
C10	Management
C09	Civil Engineering
C07	Electrical 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 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.

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 November 30, 2023. However, should you not receive notification from this office for your annual affidavit; 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 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.

We reserve 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. 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,

Kezial L. Cawthorne DBE Program Administrator II

Enclosure (Certificate)







LOUISIANA UNIFIED CERTIFICATION PROGRAM Disadvantaged Business Enterprise Program

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & Under the State of Louisiana United Certification Program (LAUCP)

Infinity Engineering Consultants, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) in the following specialties:

541330

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: November 30, 2022- November 30, 2023

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Keziah L. Cawthorne, DBE Program Administrator II

Regional Transit Authority