



I-69 FRONTAGE ROAD CONNECTOR (STONEWALL FRIERSON TO LA 1)

CONTRACT NO. 4400027735

Prepared for
LOUISIANA DEPARTMENT OF
TRANSPORTATION AND DEVELOPMENT

Prepared by
STANTEC CONSULTING SERVICES INC.

OCTOBER 3, 2023



+ The Port Water Tower



+ Wallace Lake Dam



+ US 90 @ LA 318 Interchange Design-Build



+ US 90 @ LA 85 Interchange Design-Build

DOTD FORM: 24-102


(Revised January 1, 2023)

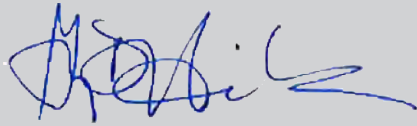
PROPOSAL TO PROVIDE CONSULTANT SERVICES

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 IN-ACCURATE 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.	I-69 Frontage Road Connector (Stonewall Frierson to LA 1) I-69 Frontage Road (Stonewall Frierson to Ellerbe Road); I-69 Frtg. Rd. Conn. (Ellerbe Rd. to LA 1); I-69 Frontage Road Connector (Stonewall Frierson)
2.	Contract number(s) as shown in the advertisement	No. 4400027735 
3.	State Project Number(s), if shown in the advertisement	H.005184, H.014054, H.014056
4.	Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	Stantec Consulting Services Inc.
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0003506
6.	Prime consultant mailing address	1200 Brickyard Lane Suite 400, Baton Rouge, LA 70802
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1200 Brickyard Lane Suite 400, Baton Rouge, LA 70802
8.	Name, title, phone number, and email address of prime consultant’s contract point of contact	Gary Heitman, PE, Senior Principal (225) 215-5105 gary.heitman@stantec.com

9.	Name title, phone number, and email address of the official with signing authority for this proposal	Gary Heitman, PE, Senior Principal (225) 215-5105 gary.heitman@stantec.com
10.	This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 <hr/> Signature above shall be the same person listed in Section 9: <hr/> Date: October 3, 2023
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>Firms(s) Firm(s)' %:</u> EJES, Inc. 8%

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 (please specify).

Past Performance Evaluation Disciplines	% of Overall Contract	Stantec Consulting Services Inc. (Prime)	Lazenby & Associates, Inc. (Sub)	NTB Associates, Inc. (Sub)	EJES Incorporated (Sub, DBE)	GeoEngineers Inc. (Sub)	Each Discipline must total to 100%
★ Road	42%	68%	12%	0%	20%	0%	100%
★★ Bridge	25%	100%	0%	0%	0%	0%	100%
Survey	20%	0%	60%	40%	0%	0%	100%
Other (Survey SUE Services)	4%	0%	0%	100%	0%	0%	100%
★★★ Traffic	5%	100%	0%	0%	0%	0%	100%
Geotech	4%	0%	0%	0%	0%	100%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	100%	59%	17%	12%	8%	4%	100%

★ Includes Prelim. and Final Roadway Plans, Estimates, Hydraulic Analysis and Design, Road Design Services for Environmental Clearance and Permitting (as needed), Special Provision Write-ups, TMP/Drainage Analysis, RR Coordination, Quality Plan Reviews, Construction Pre-bid activities and Roadway related Construction Support services (as needed)

★★ Includes Bridge Design, non-standard box culverts (as needed), miscellaneous structural element design and details, site visit, load ratings, Quality Plan Reviews, Construction Pre-bid activities and Structural related Construction Support services (show drawings, RFIs, etc.)

★★★ Includes review of traffic and safety data, TMP, TSIs, Traffic Signal Plans

13. **Firm Size:**

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

The DOTD Job Classification(s) to be used can be found at the following link:

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

Firm Name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Stantec Consulting Services Inc.	Principal	1	3
Stantec Consulting Services Inc.	Supervisor - Eng	2	2
Stantec Consulting Services Inc.	Engineer	13	27
Stantec Consulting Services Inc.	Engineer Intern	2	6
Stantec Consulting Services Inc.	Senior Technician	2	7
Stantec Consulting Services Inc.	CADD Technician	1	4
Stantec Consulting Services Inc.	Administrative	1	7
Stantec Consulting Services Inc.	Planner	3	1
Lazenby & Associates, Inc.	Administrative	0	1
Lazenby & Associates, Inc.	CADD Drafter	0	2
Lazenby & Associates, Inc.	CADD Technician	2	3
Lazenby & Associates, Inc.	Clerical	0	2
Lazenby & Associates, Inc.	Engineer	1	6
Lazenby & Associates, Inc.	Engineer Intern	2	2
Lazenby & Associates, Inc.	Inspector	0	2
Lazenby & Associates, Inc.	Inspector - Certified	0	2
Lazenby & Associates, Inc.	Instrument Man	2	2
Lazenby & Associates, Inc.	Party Chief	2	2
Lazenby & Associates, Inc.	Principal	1	1
Lazenby & Associates, Inc.	Rodman	2	3
Lazenby & Associates, Inc.	Supervisor - Eng	1	3
Lazenby & Associates, Inc.	Surveyor	1	1
Lazenby & Associates, Inc.	Technician	0	1

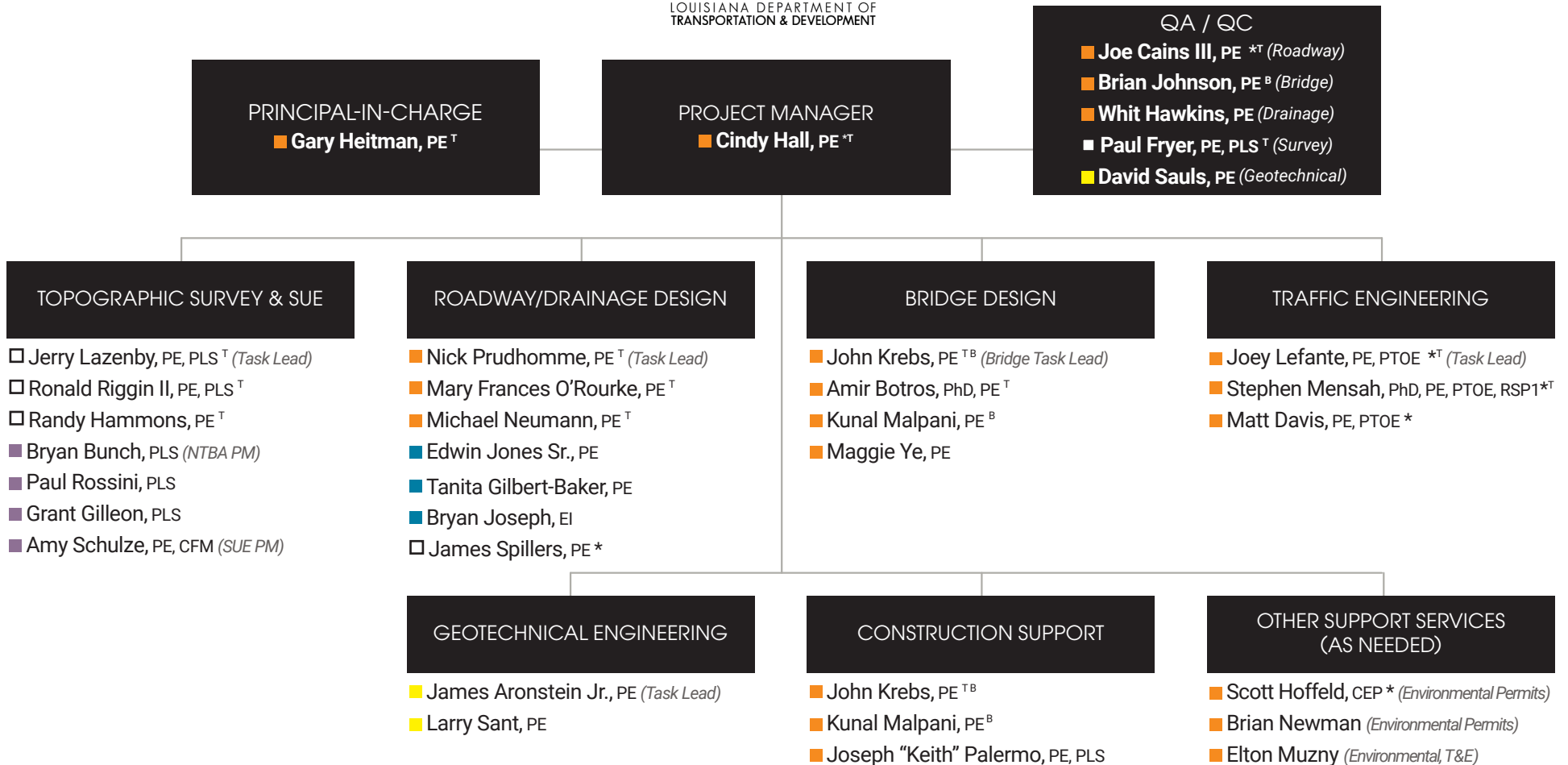
Firm Name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
NTB Associates, Inc.	Principal	1	1
NTB Associates, Inc.	Engineer	1	1
NTB Associates, Inc.	Surveyor	4	6
NTB Associates, Inc.	Supervisor - Other	1	3
NTB Associates, Inc.	Senior Technician	1	1
NTB Associates, Inc.	CADD Technician	2	5
NTB Associates, Inc.	Technician	1	1
NTB Associates, Inc.	CADD Drafter	1	6
NTB Associates, Inc.	Party Chief	9	19
NTB Associates, Inc.	Instrument Man	4	8
NTB Associates, Inc.	Rodman	4	6
EJES, Inc.	Engineer	2	3
EJES, Inc.	Engineer Intern	3	3
EJES, Inc.	Engineer - Other	0	5
GeoEngineers, Inc.	Administrative	1	4
GeoEngineers, Inc.	CADD Technician	1	1
GeoEngineers, Inc.	Driller	3	3
GeoEngineers, Inc.	Engineer	2	5
GeoEngineers, Inc.	Engineer Intern	1	4
GeoEngineers, Inc.	Environmental Pro	0	3
GeoEngineers, Inc.	Principal	3	7
GeoEngineers, Inc.	Senior Technician	1	2
GeoEngineers, Inc.	Technician	1	6

14. **Organizational Chart:**

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20. It is acceptable to use an 11x17 format for Section 14.

Legend

- Stantec
 - Lazenby & Associates, Inc.
 - NTB Associates, Inc.
 - EJES, Inc.
 - GeoEngineers, Inc.
- * Traffic Engineering Process and Report Training
 - † Has Work-Zone Training
 - ‡ Meets NBIS Team Leader Criteria





15. **Minimum Personnel Requirements:**



Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

MPR No.	Personnel Being Used to Meet the MPR <i>(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the Advertisement)</i>	Firm Employed By	Type of License and Discipline Meeting MPR/Certification & Number <i>(Ex: PE # - Civil)</i>	State of License	License/Certification Expiration Date
1.	Gary Heitman, PE	Stantec	PE No. 24670 - Civil	LA	9/30/2024
2.	Gary Heitman, PE	Stantec	PE No. 24670 - Civil	LA	9/30/2024
3.	Cindy Hall, PE	Stantec	PE No. 27073 - Civil	LA	9/30/2025
4.	Brian Johnson, PE John Krebs, PE	Stantec Stantec	PE No. 31273 - Civil PE No. 37259 - Civil	LA LA	9/30/2024 9/30/2024
5.	Amir Botros, PhD, PE Kunal Malpani, PE	Stantec Stantec	PE No. 43701 - Civil PE No. 43016 - Civil	LA LA	3/31/2024 3/31/2025
6.	Joe Cains, PE Nick Prudhomme, PE Mary Frances O'Rourke, PE Edwin Jones, Sr., PE Tanita Gilbert-Baker, PE	Stantec Stantec Stantec EJES, Inc. EJES, Inc.	PE No. 33670 - Civil PE No. 35996 - Civil PE No. 41444 - Civil PE No. 27489 - Civil PE No. 29350 - Civil	LA LA LA LA LA	3/31/2024 3/31/2025 9/30/2025 3/31/2024 3/31/2025
7.	James Aronstein Jr., PE Larry Sant, PE David Sauls, PE	GeoEngineers, Inc. GeoEngineers, Inc. GeoEngineers, Inc.	PE No. 11794 - Civil PE No. 35625 - Civil PE No. 23270 - Civil	LA LA LA	3/31/2025 9/30/2024 3/31/2025
8.	Joey Lefante, PE, PTOE Matt Davis, PE, PTOE	Stantec Stantec	PE No. 37244 - Civil PE No. 38947 - Civil	LA LA	9/30/2024 9/30/2024
9.	Jerry Lazenby, PE, PLS Bryan Bunch, PLS	Lazenby & Associates, Inc. NTB Associates, Inc.	PLS No. 2313 - Survey PLS No. 5014 - Survey	LA LA	3/31/2024 3/31/2024



16. **Staff Experience:**

FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Cindy Hall, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	31	
TITLE	Senior Principal, Transportation Infrastructure Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1992 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 27073 LA 09/30/2025		
YEAR REGISTERED	1997	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Cindy's 31 years of experience include the design and project management of various civil and transportation projects. As Roadway Division Manager, Cindy manages the productivity of the roadway staff and oversees the quality of the plans and specifications developed by the Roadway Division. She has also served as project manager on many transportation projects including interstate and interchange improvements, rural arterials, and urban roadways with subsurface drainage and traffic signalization. Cindy has been involved in numerous projects implementing innovative geometric solutions including continuous flow intersections, a diverging diamond interchange, and roundabouts. She has also recently been involved in four Design-Build projects for LADOTD. In addition to her transportation experience, Cindy has designed and managed many wastewater pipeline, pump station projects, and utility relocations over the course of her career. Cindy will serve as PROJECT MANAGER for this contract. Cindy meets the Minimum Personnel Requirements (MPRs) #3			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/15 - 06/18	US 90 AT LA 318 INTERCHANGE DESIGN-BUILD LADOTD St. Mary Parish, LA Design Manager. Cindy managed the design for this Design-Build project which improved the intersection of US 90 at LA 318 to a grade-separated interchange and brought US 90 up to interstate standards as a part of the Future I-49 Corridor. The project included dual overpass bridges, ramps, and frontage road relocations . The new frontage roads were used to maintain traffic during the construction of the overpass bridges. Stantec proposed an alternative technical concept to the proposed alternative in the RFP. This ATC conserved ROW, lessened impacts to the community and the environment, and saved construction cost. Stantec was also responsible for acquiring the ROW while construction was ongoing. Cindy also managed the relocation of utilities during construction and designed water and sewer relocations for St. Mary Parish. Stantec remained involved throughout construction and participated in resolving design and construction non-conformance issues and requests for information. Construction was complete in January of 2018.			
10/09 - 06/11	US 90 AT LA 85 INTERCHANGE DESIGN-BUILD LADOTD Contract No. 424-04-0032 Iberia Parish, LA Design Quality Control Manager. Cindy led the design QC effort for this project to elevate the rural arterial to urban interstate standards. The Design-Build Team designed upgrades involving construction of a concrete girder span bridge over Louisiana 85 along the US 90 corridor, an extensive rehabilitation of frontage roads and ramps, and the installation and upgrade of permanent drainage structures. As Design Quality Control Manager, Cindy was responsible for developing the Design Quality Control Manual, managing the Design Quality Control Reviews, responding to comments, holding design review meetings, distributing plan submittals, and documenting quality control records. During construction, she was responsible for adherence to the construction plans and the resolution of design non-conformance reports. Construction was completed, and the interchange opened to the public, in June 2011.			
05/12 - 12/21	GOVERNMENT STREET ROAD DIET: STUDY THROUGH FINAL DESIGN LADOTD Baton Rouge, LA Project Manager. Cindy managed the evaluation of alternatives during the environmental phase for this four-mile portion of Government Street. She attended public meetings and managed public preliminary and final plan development phases. Cindy coordinated with LADOTD, City of Baton Rouge, BREC, CATS, and other project stakeholders. The project rehabilitated and re-stripped existing roadway from a four-lane section to a three-lane section (Road Diet). Restriping the roadway allowed the reclaimed pavement to be used for multi-modal and streetscape improvements. Bike lane improvements and vegetative median islands were added to the corridor and sidewalks were brought up to ADA compliance. This project included a single-lane roundabout with bypass lanes designed for the Lobdell Avenue intersection, complete street improvements, access management, and community enhancements. Cindy provided construction support services during construction, which was completed at the end of 2021.			


11/12 - 03/23	<p>PERKINS ROAD (SIEGEN TO PECUE) WIDENING TRAFFIC STUDY, ENVIRONMENTAL ASSESSMENT (EA), PRELIMINARY PLANS, FINAL PLANS AND RIGHT-OF-WAY MAPS City of Baton Rouge Contract 12-CS-HC-0015 Baton Rouge, LA Project Manager. This project initially included an EA and Preliminary Plans for improving 3.4 miles of Perkins Road (LA 427) from the existing two-lane roadway to a four-lane divided curb and gutter roadway with raised median, sidewalk, sewer, and subsurface drainage. During the EA phase, Cindy was responsible for Line and grade alternatives study, stakeholder coordination, public outreach, led EA phase, preliminary plans (geometry, drainage, sequence of construction, signalization, preliminary construction cost estimate), and final ROW maps. Under the MOVEBR Program, Stantec completed Final Plans for Perkins Road from Siegen Lane to Pecue Lane using MOVEBR design criteria. This widening project accommodates the increase in traffic and improves travel efficiency along this corridor by introducing access management principles which have been shown to increase capacity and safety. Partial median openings and u-turn movements with bulb outs were provided along the corridor. Stantec was responsible for all final design including roadway and traffic signal plans, subsurface drainage and culvert design, and wetlands permitting. Final plans for this project were completed in March of 2023.</p>
08/19 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD New Orleans, LA Design Manager. Cindy manages this multimillion-dollar project that will improve access and traffic operations to and around the new Northfield Terminal of the New Orleans Airport. Cindy is overseeing the design and plan preparation efforts to add two directional flyover ramps, I-10 Westbound to Loyola Southbound, and Loyola Northbound to I-10 Eastbound. The D-B Team recommended an alternative technical concept which recommended a Diverging Diamond Interchange and required the completion of the Interchange Modification Report (IMR) and a Reevaluation of the Environmental Assessment. Cindy assisted Stantec's traffic engineers with the IMR by evaluating critical geometry, signing, striping, and providing documentation. Cindy and her project team provided exhibits and traffic models that were used during the public meeting and assisted DOTD with costs and documentation of the impacts for the reevaluation. Cindy has worked with the contractor to develop phased construction plans and design unit plan sets to construct critical path items first. She has worked with the D-B team to implement cost/schedule savings through design modifications and alternative material selections. She has worked with numerous stakeholders during the execution of this project including DOTD, FHWA, City of Kenner, Jefferson Parish, and the Airport.</p>
04/11 - 06/15	<p>I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD Lake Charles, LA Roadway Engineer. Cindy was responsible for the sequence of construction and maintenance of traffic plans for this complex, tight diamond interchange which required ramps elevated on MSE walls, two new bridges, and surface street improvements including a new roundabout. Cindy was also responsible for the Level 2 Transportation Management Plan required for the project including safety and traffic analyses and traffic management strategies.</p>
01/18 - 08/18	<p>DIJON DRIVE PHASE I & PHASE II City of Baton Rouge Baton Rouge, LA Quality Control. Stantec designed this roadway on new alignment for the City of Baton Rouge as an access roadway to the new Our Lady of the Lake Children's Hospital. This fast-paced project included a four-lane divided roadway on new alignment, sanitary sewer force main, subsurface drainage, signalization, and off-site intersection improvements. Cindy was responsible for quality control during the course of this project which was broken into two phases. Cindy reviewed each phase of work two times and offered comments before major milestone submittals.</p>
11/09 - 08/12	<p>I-12 WIDENING DESIGN-BUILD LADOTD Contract No. 454-02-0071 Livingston Parish, LA Lead Roadway Engineer. Cindy was responsible for Stantec's roadway design efforts to widen a four-mile stretch of Interstate, from the Amite River to the Juban Road interchange. The design included widening, removal, overlay and replacement of various pavement sections, ramp deceleration lane improvements, and widening of the Gray's Creek Bridge and the 4-H Club Road and Range Avenue overpasses. The project required extensive maintenance of traffic and traffic control plans on this heavily traveled stretch of urban interstate. In addition to designing the construction plans, Cindy was actively involved in the construction phase, assisting the contractor by developing quality, cost-effective solutions that met or exceeded contract scope requirements.</p>
08/05 - 12/13	<p>STARING LANE EXTENSION AND BRIDGE City of Baton Rouge Baton Rouge, LA Project Manager. This Green Light Plan project required a design study and plan development for a new, four-lane urban boulevard with a 30-foot median with subsurface drainage, sidewalks, and traffic signals. Cindy led construction plan development and design of preliminary and final plans including geometrics, intersections, earthwork modeling, striping, quantities, signal design, sanitary sewer force main design, and quality control. She also attended public meetings and coordinated with City and subconsultants.</p>
07/19 - Ongoing	<p>MOVEBR PROGRAM MANAGEMENT City of Baton Rouge Baton Rouge, LA Quality Control Project Reviewer. Cindy serves as QC Project Reviewer concentrating on Roadway and Complete Streets reviews. Cindy has reviewed design studies, preliminary and final plans, quantities, and construction cost estimates for corridor, signal, and sidewalk improvement projects.</p>


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Gary Heitman, PE	YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER	23	
TITLE	Senior Principal	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S)	12	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1986 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 24670 LA 9/30/2024		
YEAR REGISTERED	1992	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Gary will serve as PRINCIPAL-IN-CHARGE for this contract. He has over 35 years of experience and led our Highway Division for over 20 years leading the study, design, and plan development of various project types, including interstates and interchanges, arterials and collector highways, local roads, bridge replacement projects, roundabouts, and other similar transportation systems, on both existing highway alignments and new locations . His experience includes traditional and alternative delivery types as well as Construction Administration services, allowing him to apply lessons learned in the construction arena to the design process and thereby provide a more comprehensive deliverable. He is currently serving as the leader of the entire Baton Rouge office. Gary's role for this contract will include CLIENT MANAGEMENT AND SUPPORT AND GENERAL CONTRACT OVERSIGHT . Gary meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 1, 2.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/15 - Ongoing	I-49 LAFAYETTE CONNECTOR LADOTD Contract No. H.004273.5 Lafayette, LA Assistant Program Manager and Geometrics Task Manager. Gary is assisting with the Program Management task, including overseeing the implementation of an extensive QC/QA plan. He is managing the geometric design of the five-and-a-half-mile urban corridor , which includes segments of at-grade and elevated mainline, parallel frontage roads , urban interchanges, and slip ramps, as well as connections/modifications to the existing roadway network. In addition, the Geometric team's task includes conceptual constructability and maintenance of traffic plans, conceptual drainage design, and estimates of probable construction costs throughout the project.			
04/15 - 06/18	US 90 AT LA 318 INTERCHANGE DESIGN-BUILD LADOTD St. Mary Parish, LA Roadway Independent QC. This project constructed a diamond interchange with frontage roads to replace the current at-grade signalized intersection of US90 and LA 318, as well as frontage roads and ramps through the project limits. Gary assisted with alternatives to the concept presented in the RFP. He also performed independent QC and assurance reviews on the roadway design packages.			
10/12 - 09/17	LADOTD RETAINER CONTRACT FOR ROADWAY PROJECTS LADOTD H.4400002748 Statewide, LA Project Manager. Gary provided project management throughout the duration of this retainer that included the completion of the following projects: Essen Lane Widening, Government Street, and West Prien Lake Road Relocation. He was involved in all project meetings, supervised the design, plan development and the preparation of exhibits, and coordinated directly with LADOTD and City personnel to ensure the project schedules, quality goals, and other LADOTD requirements were met. Gary supervised all phases of work including: completion of the environmental phase, development of final roadway, signal, and bridge plans, and continued coordination with all parties to ensure timely delivery of the final construction documents.			
01/18 - Ongoing	DIJON DRIVE PHASE I & PHASE II City of Baton Rouge Baton Rouge, LA Project Manager. Stantec designed this roadway on new alignment for the City of Baton Rouge as an access roadway to the new Our Lady of the Lake Children's Hospital. This fast-paced project includes a four-lane divided roadway on new alignment, sanitary sewer force main, subsurface drainage, signalization, and off-site intersection improvements. Gary led the team in the environmental study, line and grade, and the current design/plan development phases of the project. He also led construction support services for Phase I provided by Stantec.			
11/10 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Lake Charles, LA Roadway Division Manager. Gary oversaw the design effort for this new, high-level bridge and approaches over Contraband Bayou, a navigable waterway in the Lake Charles area. This will provide a crucial link to downtown and the Port of Lake Charles by extending Nelson Road over Contraband Bayou to West Sallier Street.			



01/00 - 06/06	<p>I-10 Frontage Roads (Picardy Avenue Interchange) LADOTD Baton Rouge, LA Project Manager. Gary's responsibilities included oversight and preparation of design details and plans required for the construction of frontage roads parallel to I-10 between Bluebonnet Boulevard and Siegen Lane. In addition to the frontage roads, the project scope included design details for six ramps connecting interstate to frontage roads and the extension of a local road to tie into the frontage roads. As part of plan development, Gary and his team also provided extensive maintenance of traffic plans for these noted improvements as well as the widening of the interstate from a four-lane to a six-lane facility. He participated in public meetings and coordinated with multiple agencies during the planning and design phases. Gary assisted the LADOTD by providing construction support services consisting of shop drawing review, on-call support to the LADOTD project engineer, verification of design and as-built quantities, and resolution of questions and issues arising during the construction process.</p>
04/11 - 06/15	<p>I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD Lake Charles, LA Roadway Division Manager. Gary oversaw the roadway design efforts on this fast-paced project to improve access to the casino site located on I-210 between Cove Lane and Nelson Road Interchanges. Stantec led the initial study regarding appropriate access needs to and from the casino along I-210 as prior access to the site was not sufficient for the expected increase in traffic. Deliverables included a final report meeting all LADOTD requirements for a traffic impact study based on the proposed development and Stage 0 requirements for long-term improvements at the I-210/Cove Lane and I-210/Nelson Road interchanges, in each case reflecting all agency comments with no outstanding comments or further review required.</p>
08/19 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD New Orleans, LA Roadway Design QC. Gary is providing roadway design quality control for this multimillion-dollar project that will improve access and traffic operations to and around the new Northfield Terminal at the New Orleans Airport. This project consists of a Diverging Diamond Interchange, in addition to flyover ramps leading to/ from the Airport on the east side of the interchange.</p>
08/05 - 12/13	<p>STARING LANE EXTENSION AND BRIDGE City of Baton Rouge Baton Rouge, LA Roadway QA/QC. This Green Light Plan project required a design study and plan development for a new, four-lane urban boulevard with a 30-foot median with subsurface drainage, sidewalks, and traffic signals. Gary's responsibilities included technical assistance in the study and design phases, QA/QC of roadway plans, and participation in regular project meetings as well as public meetings.</p>
02/13 - 07/16	<p>LADOTD RETAINER CONTRACT FOR TRAFFIC ENGINEERING ROAD MANAGEMENT LADOTD H.4400002748 Statewide, LA Contract Manager and QA/QC. Under this retainer, Stantec designed five roundabout projects, including: Cleo Road, US 79 Bypass at LA 9, LA 75 Roundabouts (Plaquemine), LA 86 & LA 320 Roundabout (New Iberia), and LA 447/I-12 Interchange. Gary managed the contract, performed QA/QC, and provided geometric guidance and oversight during plan development</p>
11/09 - 08/12	<p>I-12 WIDENING DESIGN-BUILD LADOTD Contract No. 454-02-0071 Livingston Parish, LA Project Design Manager. Gary was responsible for coordination of design and plan development efforts to widen this four-mile stretch of Interstate from the Amite River to the Juban Road interchange, as part of the selected Design-Build team. Project design elements included widening, removal, overlay, and replacement of various pavement sections, ramp deceleration lane improvements, interchange lighting, permanent signing, permanent concrete median barrier, median subsurface drainage, and widening of the Gray's Creek Bridges and the 4-H Club Road and Range Avenue overpasses. The project required erosion control plans addressing storm water runoff during construction, as well as extensive maintenance of traffic and traffic control plans for this heavily traveled stretch of interstate and connecting ramps. In addition to the design and plans developed for the construction elements, Gary was actively involved in construction progress meetings and assisted the contractor during construction, after designs and plans were approved, working with the team to address construction questions and issues in the field. At the completion of construction, as-built plans and electronic files were created for the project, again with Gary serving as the Project Design Manager for all plan and design elements.</p>
03/07 - 12/12	<p>RIVER ROAD (LA 327) RELOCATION FOR PINNACLE CASINO DEVELOPMENT LADOTD Baton Rouge, LA QA/QC Lead and Design Oversight. Gary provided oversight and guidance for design of the relocation of Louisiana 327 (River Road) for about a one-mile segment to create a more contiguous site for development. During planning, design, and construction phases of the roadway work, he provided extensive coordination with the LADOTD Headquarters and District 61 staff to ensure timely plan approvals and permitting. He provided QC reviews for the roadway plans and documents prepared by staff under his direct supervision and answered questions that arose during construction. In addition, plans for off-site improvements identified in the Traffic Impact Study, including several intersections were developed. Gary's roles for the offsite work included direct oversight of the roadway design and plan development as well as QA/QC support and assistance with the LADOTD permitting process. Gary also developed a wayfinding signage plan directing traffic from I-10 approximately 13 miles along various state highways to the site and assisted the developer with obtaining LADOTD input and approvals for this additional signage.</p>



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Joseph "Joe" Cains, III, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	19	
TITLE	Senior Associate	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2003 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 33670 LA 03/31/2024		
YEAR REGISTERED	2008	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Joe has over 19 years of experience for various project types, including interstates and interchanges, arterials and collector highways, local roads, bridge replacement projects, and other similar transportation systems, on both existing highway alignments and new locations. He also has experience with innovative intersections including roundabouts, DDIs, and CFIs, and has been involved in several major projects involving compressed schedules and quick turnaround deadlines. He has experience in both traditional and alternative delivery types as well as Construction Administration services, allowing him to help lead the charge in the transportation industry for Stantec in the State of Louisiana. Joe's role for this contract will include QA/QC (Roadway). Joe meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 6			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/15 - Ongoing	I-49 LAFAYETTE CONNECTOR LADOTD Lafayette, LA Lead Roadway Engineer. Joe's responsibilities include assisting with the completion of Task 4 Geometrics, of a 15 task project that is being carried out with a team of 15 design firms. Task 4 involves the evaluation and recommendations for previously proposed geometry, (interchanges, frontage roads, intersections, horizontal, and vertical alignments, design vehicles and criteria, etc.), investigation of the five design modifications recommended during the environmental process (ROD obtained in early 2000s), investigation of 20+ potential design modifications, public coordination, and final design report document development for future segmentation and design of independent utility segments.			
04/15 - 06/18	US 90 AT LA 318 INTERCHANGE DESIGN-BUILD PROJECT LADOTD St Mary Parish, LA Lead Roadway Engineer. Project included upgrading the existing two-lane undivided roadway LA 318 to a two-lane divided roadway with a raised median, and constructing a new overpass bridge for US 90 over LA 318. This project also included a significant utility relocation coordination effort, as well as ROW acquisition (first for a Design-Build Project), and a Transportation Management Plan. Joe's duties included leading the effort for plan development of the various design units, development of the TMP, design of frontage road and ramp geometry, as well as construction support during the process.			
11/10 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Lake Charles, LA Project Manager. Joe served as Project Manager for the Environmental Assessment as well as the Preliminary and Final Design Phases of this project, that proposes to construct a new high-level bridge over Contraband Bayou. During the environmental phase, Joe coordinated all environmental tasks and developed the line and grade study, performed a vessel survey to better understand navigational requirements for the proposed bridge, assisted with development of the Section 404 and Section 10 permits (USACE and USCG), and coordinated the compilation of the entire EA document, which included three subconsultants. Joe also designed the horizontal and vertical geometry for the project and providing general oversight, guidance, and coordination of plan development for the various disciplines involved, including roadway design, drainage design, maintenance of traffic, bridge design, traffic signal design, railroad design, lighting design, and assisted District 07 with the coordination of utility impacts. Joe is currently providing roadway construction support for this project.			
08/14 - 08/19	W. PRIEN LAKE ROAD RELOCATION LADOTD Lake Charles, LA Project Manager. Joe served as Project Manager for the Preliminary and Final Design Phases of this project, that proposed to realign W. Prien Lake road for approximately 1.4 miles to improve interchange operations at I-210 and Nelson Road. Joe designed the original horizontal and vertical geometry for the project, and later oversaw the final design of the horizontal and vertical geometry, as well as provided general oversight, guidance, and coordination of plan development for the various disciplines involved, including roadway design, drainage design, structural design, traffic signal design, and lighting design performed by a subconsultant. Joe helped with construction support for this project.			


03/07 - 12/12	<p>RIVER ROAD (LA 327) RELOCATION FOR PINNACLE CASINO DEVELOPMENT LADOTD Baton Rouge, LA Lead Roadway Engineer and Assistant Project Manager. Joe led roadway design and plan development efforts to relocate River Road for approximately 1.1 miles and install three new, single-lane, roundabout intersections for the proposed development access that mitigated impacts for this \$400M+ casino development (L'Auberge Baton Rouge). In addition to the River Road Relocation effort, he led the management, design, and plan development for five offsite intersections also associated with the traffic impact for this development. In addition to designing the horizontal and vertical geometry for these improvements, Joe also designed the drainage elements for the project (paved gutter drains, culvert design, and open ditch design), striping and signage, maintenance of traffic plans, and assisted with coordination of utilities and lighting for the project. He was heavily involved in the client coordination and project coordination efforts during the planning of the development. Joe was also heavily involved in the construction phase of the project, including construction support and construction administration.</p>
04/11 - 06/15	<p>I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD Lake Charles, LA Assistant Project Manager and Lead Roadway Engineer. This project proposed to reconstruct I-210 to overpass the extension of Cove Lane and widen it between the foot of the I-210 bridge over the Calcasieu River ship channel to the Nelson Road Interchange. During the Stage 0 and IMR phases of the project, Joe developed 29 full interchange alternatives and coordinated with traffic engineers during the analysis and modeling efforts to modify the alternatives as needed to satisfy DOTD needs. In the environmental phase, he provided the exhibits and materials necessary to support the Environmental Assessment document. During the Preliminary and Final Design Phases of the project, he designed the horizontal geometry for the entire project, led the roadway design plan development efforts, and coordinated multiple disciplines including hydraulic analysis and design, striping and signing design, bridge and structural design, geotechnical design, and maintenance of construction, as well as ROW acquisition, Utility Coordination and Relocation, and implementing environmental commitments into the design. Joe was also involved with the development of the Transportation Management Plan, and the development and approval of several Special Provisions for the project. Lastly, he was heavily involved in the construction process, which included frequent trips to the project site, answering RFIs, and assisting LADOTD with maintaining the project schedule.</p>
07/19 - Ongoing	<p>MOVEBR PROGRAM MANAGEMENT City of Baton Rouge Baton Rouge, LA Deputy Program Management. Joe serves as the Deputy Program Manager for Engineering for the \$313M Community Enhancement Program of the overall MOVEBR program. This \$1.1B Program proposes to improve key roadways and roadway corridors by focusing on either adding new capacity or adding community enhancement features in various areas throughout the parish. Joe's responsibilities include the oversight and compliance with MOVEBR guidelines as well as the management of Project Managers for the 23 planned projects and sub-programs associated with the Community Enhancement Program. Joe is also heavily involved in the procurement phase for projects, providing assistance to the Engineer and Survey Selection Board thorough the planning, prioritization, advertisement, selection, and procurement of professional service firms. Lastly, Joe manages the QC Review Team, ensuring that design reviews are properly facilitated with subject matter experts and ensuring that comments are properly adjudicated and coordinated if conflicts arise. Joe also ensures that policies are processes are properly followed, and that contract scope requirements are fulfilled prior to moving to the next phase of project delivery.</p>
08/19 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD New Orleans, LA Lead Roadway Engineer. Joe serves as lead roadway engineer of this multimillion-dollar design-build project that will improve access and traffic operations to and around the new Northfield Terminal at the New Orleans International Airport. The project consists of a Diverging Diamond Interchange and flyover ramps leading to/from the Airport on the east side of the interchange.</p>
11/09 - 08/12	<p>I-12 WIDENING DESIGN-BUILD LADOTD Contract No. 454-02-0071 Livingston Parish, LA Roadway Engineer. Joe was responsible for Stantec's roadway design efforts to widen a four-mile stretch of Interstate. The design included widening, removal, overlay and replacement of various pavement sections, and ramp deceleration lane improvements, as well as widening the Gray's Creek Bridge and the 4-H Club Road and Range Avenue overpasses. The project required extensive maintenance of traffic and traffic control plans on this heavily traveled stretch of interstate.</p>
03/17 - 03/23	<p>PERKINS ROAD (SIEGEN TO PECUE) WIDENING TRAFFIC STUDY, ENVIRONMENTAL ASSESSMENT (EA), PRELIMINARY PLANS, FINAL PLANS AND RIGHT-OF-WAY MAPS City of Baton Rouge Contract 12-CS-HC-0015 Baton Rouge, LA QC Manager. Under the MOVEBR Program, Stantec completed Final Plans for Perkins Road from Siegen Lane to Pecue Lane using MOVEBR design criteria. This two-lane to four-lane divided roadway widening project accommodates the increase in traffic and improves travel efficiency along this corridor by introducing access management principles which have been shown to increase capacity and safety. Partial median openings and u-turn movements with bulb outs were provided along the corridor. Stantec was responsible for all final design including roadway and traffic signal plans, subsurface drainage and culvert design, and wetlands permitting. Final plans for this project were completed in March of 2023.</p>



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Brian Johnson, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	18	
TITLE	Principal, Bridge Division Leader	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2000 Civil Engineering; BS 1999 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 31273 LA 9/30/2024		
YEAR REGISTERED	2004	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	<p>Brian brings over 23 years of engineering experience specifically related to structural projects and serves as the Structural Section Manager in the Baton Rouge office. His primary expertise lies in analysis, design, rating, inspection, and rehabilitation of bridges. Brian has managed bridge projects with a variety of structure types such as prestressed concrete girders, steel truss vertical lift bridges, long span steel trusses horizontally curved steel plate girders, concrete box culverts, and retaining walls. He has overseen several NSBI bridge inspection projects and been involved in several hydraulic studies for bridge replacement projects in both Mississippi and Louisiana. Brian will serve as QA/QC - BRIDGE for this contract. Brian meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 4</p>			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/15 - 06/18	<p>US 90 INTERCHANGE AT LA 318 DESIGN-BUILD LADOTD St. Mary Parish, LA Structural QA/QC Manager. Brian served as the structural quality control manager for this design-build project which consisted of a new twin structure and a diamond interchange. This stretch of US 90 has been designated as the future I-49 corridor. The bridges consisted of LG-54 prestressed concrete girder spans with lengths up to 111-ft supported by multi-column concrete bents. Brian performed independent reviews of the reported designs and the proposed construction plans.</p>			
12/15 - Ongoing	<p>NELSON ROAD EXTENSION AND BRIDGE LADOTD Contract No. H.005967 Lake Charles, LA Structural Engineer. Brian managed the bridge and structural design efforts from preliminary to final plans. He performed quality review of bridge design, plans, and specifications for this bridge extension to the surrounding roadway network. Project tasks included design of bridge superstructure, substructure including foundations, median barrier design, and as-designed load rating. Other design elements include navigational lighting bridge attachments and steel bracket light supports with concrete anchors to the bridge structure. Structural Design was performed in compliance with AASHTO LRFD Specifications. In addition, he led the inspection of an existing sign truss to ensure it could be reused for the current project. Brian is currently providing structural construction support for this project.</p>			
08/14 - 07/19	<p>WEST PRIEN LAKE ROAD RELOCATION LADOTD Lake Charles, LA Lead Structural Engineer. Brian was responsible for leading design and plan development efforts for a two-cell, 12-ft x 12-ft reinforced concrete box culvert. The culvert is 117-ft long supporting four travel lanes, a shared use path, and a sidewalk. An architectural railing was installed along the headwall length. Brian oversaw construction administration activities which included reviewing shop drawings, addressing contractor RFIs, and providing construction engineering.</p>			
07/15 - 10/20	<p>I-10 ATCHAFALAYA CLEAN, PAINT & MISC. REPAIRS LADOTD Contract No. H.009461 St. Martin & Iberville Parishes, LA Project Manager. Brian oversaw plan production, scheduling field activities, reviewing assessment reports, and construction support services. Project included developing repair and rehabilitation plans for approximately 18.5 miles of structure. Structural steel plate girder and prestressed concrete girder spans founded on multi-column concrete bents were the primary structure types. Repair solutions included concrete deck and barrier rail repairs, concrete and steel girder repairs, bridge bearing replacements, and painting existing structural steel.</p>			
08/19 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD Contract No. H.011670 New Orleans, LA Lead Structural Engineer. Brian leads the structural design efforts of two new flyover ramps, one bridge widening, noise barriers, precast box culverts, roadway and pier protection barriers, and miscellaneous structural elements. During design, Brian orchestrated a series of meetings with the contractor, fabricators, vendors, and suppliers to optimize and streamline the design. He oversees construction support which includes shop drawing reviews, addressing RFIs, and providing construction engineering services.</p>			
04/11 - 03/15	<p>I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD H.010151 Lake Charles, LA Lead Structural Engineer. Brian managed the structural design of a single-span, 130-ft long, prestressed concrete girder bridge along I-210 over Cove Lane and twin concrete slab span bridges over Cline Canal. He provided construction support by reviewing shop drawings, addressing RFIs, attending weekly progress meetings, and performing construction engineering. All design was performed in accordance with AASHTO LRFD Bridge Design Specifications.</p>			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Whit Hawkins, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	6	
TITLE	Hydraulics Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	11	
DEGREE(S) / YEARS / SPECIALIZATION		MBA 2005; BS 2004 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 46867 LA 9/30/2024		
YEAR REGISTERED	2022	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Whit brings over 18 years of experience specifically related to hydraulic projects. This experience includes developing hydraulic and hydrologic studies for FEMA's Digital Flood Insurance Rate Maps, Letters of Map Revisions, Risk MAP program, hydraulics for bridge design, 2-D hydraulic modeling, Phase I and II bridge scour analyses, and design of roadway storm-drain systems. Prior to joining Stantec, Whit served as the Director of Public Works for the City of Madison, MS, for two years that involved leading the design, construction, and maintenance of city streets, water supply system, and storm and sanitary sewers. Whit will serve as QA/QC - DRAINAGE for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/19 - Ongoing	I-10 LOYOLA DESIGN-BUILD LADOTD Contract No. H.011670 New Orleans, LA Hydraulics Engineer. Whit is responsible for determining hydraulic impact of US Interstate 10 bridge expansion over Duncan Canal and determined placement of scuppers for roadway barriers, noise barriers, and bridges from roadway hydrology and hydraulic calculations.			
12/17 - 12/20	US HIGHWAY 80 BRIDGE REPLACEMENTS MDOT Newton, MS Hydraulics Engineer. Whit served as the Hydraulics Engineer and calculated flows to determine sizing of drain pipes for four bridge replacement sites in Newton County.			
06/19 - 08/20	SR 772 BETWEEN CR 132 AND SR 15 (BRIDGE #271.8) MDOT Pontotoc County, MS Hydraulics Engineer. Whit provided Phase A bridge hydraulic design and recommendations for Bridge No. 271.8 over Chiwapa Creek on SR 772 utilizing 2D Modeling.			
01/17 - 12/18	SR 42 BRIDGE REPLACEMENT MDOT Perry County, MS Hydraulics Engineer. Whit developed 2D hydraulic models and proposed bridge designs to replace a bridge over Tallahala Creek on State Route 42 west of Runnelstown, MS.			
05/16 - 06/19	BRIDGE SCOUR EVALUATION FOR LYNCH CREEK AT I-20 MDOT Hinds County, MS Hydraulics Engineer. Whit developed 2D hydraulic models and performed a Level 2 Basic Engineering Analysis for three sets of Interstate 20 bridges over Lynch Creek in Jackson, MS.			
03/19 - Ongoing	KEMP BOTTOM ROAD BRIDGE SCOUR City of Vicksburg Vicksburg, MS Hydraulics Engineer. Whit developed HEC-RAS model to proposed bridge designs and developed countermeasures to resist scour for the Kemp Bottom Road bridge in Warren County.			
08/05 - 04/14	MISSISSIPPI FLOOD MAP MODERNIZATION INITIATIVE MDEQ Jackson, MS Hydraulics Engineer. Whit was responsible for a variety of technical tasks necessary to update FEMA floodplain maps for counties throughout Mississippi. Some of these tasks included GIS data processing and analyses, hydrologic and hydraulic modeling, digital mapping, production of flood insurance studies, and community outreach and presentations.			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Nick Prudhomme, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	17	
TITLE	Roadway Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2006 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 35996 LA 3/31/2025		
YEAR REGISTERED	2011	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Nick has over 17 years of experience in feasibility/alternative studies and preliminary and final design of interstates, entrance and exit ramps, arterials, local roads, bridge replacement projects, and other similar transportation systems along both existing and proposed alignments. His experience also includes training courses for Traffic Control Supervisor, Traffic Control Design Specialist, and training in the Highway Safety Manual. Nick will serve as ROADWAY/DRAINAGE DESIGN TASK LEAD for this contract. Nick meets the Minimum Personnel Requirements (MPRs) #6			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/15 - 06/18	US 90 AT LA 318 INTERCHANGE DESIGN-BUILD LADOTD St. Mary Parish, LA Roadway Engineer. Nick performed subsurface drainage analysis and design, earthwork modeling, cross section generation, and quantity calculations. The project included dual overpass bridges, ramps, and frontage road relocations. Stantec proposed an alternative technical concept to the proposed alternative in the RFP. This ATC conserved ROW, lessened impacts to the community and the environment, and saved construction cost. Nick remained involved throughout construction and participated in resolving design and construction non-conformance issues and requests for information.			
01/14 - 03/18	LA 86 AT LA 320 ROUNDABOUT LADOTD New Iberia, LA Project Engineer. Nick's responsibilities included project management, client coordination, and the design and supervision of all areas of plan development including horizontal and vertical design, sight distance calculations, drainage design, earthwork modeling, cross section development, striping layout, sequence of construction, quantity calculations, and cost estimation.			
08/19 - Ongoing	I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD Contract No. H.011670 New Orleans, LA Assistant Roadway Lead and Drainage Lead. As Drainage Lead, Nick oversees the drainage design consisting of subsurface drainage systems along Loyola Drive and the new airport access road, drainage systems/cross drains on I-10, and the extension of 2-8'x7' box culverts in Canal 13. As Assistant Roadway Lead, Nick has designed horizontal and vertical geometry, graphical grades, and Inroads roadway modeling. Nick also performs construction support by reviewing and approving drainage shop drawings as well as RFIs and NCRs relating to drainage and roadway design. This project will serve as a main entrance to the new airport terminal recently constructed for the Louis Armstrong New Orleans International Airport.			
11/12 - 03/23	PERKINS ROAD (SIEGEN TO PECUE) WIDENING TRAFFIC STUDY, ENVIRONMENTAL ASSESSMENT (EA), PRELIMINARY PLANS, FINAL PLANS AND RIGHT-OF-WAY MAPS City of Baton Rouge Contract 12-CS-HC-0015 Baton Rouge, LA Roadway Lead. This project initially included EA and Preliminary Plans for improving 3.4 miles of Perkins Road (LA 427) from the existing, two-lane roadway to a four-lane divided curb and gutter roadway with raised median, sidewalk, sewer, and subsurface drainage. During the EA phase, Nick assisted with the alternative analyses, conceptual drainage design, public meeting materials and presentations, and the development of the EA report and documentation. During preliminary plan development, he assisted in all areas of design and plan development including client interaction, drainage design, drainage report, roadway modeling and earthwork analyses using InRoads, quantity calculations, and construction cost estimate. Under the MOVEBR Program, Stantec completed Final Plans using MOVEBR design criteria and is responsible for all final design including roadway and traffic signal plans, subsurface drainage and culvert design, and wetlands permitting. Final plans for this project were completed in March of 2023.			
04/11 - 06/15	I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD H.010151 Lake Charles, LA Roadway Engineer. Nick assisted in the design and plan development for the proposed full tight diamond interchange at Cove Lane and I-210. He was responsible for all the earthwork calculations for the interchange improvements, as well as the extension of existing Cove Lane to the north. The project included retaining walls and a load transfer platform which were included in Nick's cross section design. Nick was also involved with geometric modeling and quantity calculations.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Mary Frances O'Rourke, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	13	
TITLE	Roadway Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2012 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 41444 LA 09/30/2025		
YEAR REGISTERED	2017	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Mary's roadway engineering experience includes preparing roadway plans, quantity calculations, hydraulic analysis, striping and signing design, coordination of utility relocation for design-build projects, and geometric design such as horizontal and vertical alignments for a variety of projects in Louisiana. Mary is knowledgeable in a number of software programs including Microstation, InRoads and SignCad. She has also assisted in the design of roundabouts, interchanges, and realignments of urban roadways. Mary will perform ROADWAY/DRAINAGE DESIGN for this contract. Mary meets the Minimum Personnel Requirements (MPRs) #6			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/15 - Ongoing	I-49 LAFAYETTE CONNECTOR LADOTD Lafayette, LA Roadway Engineer. Mary is responsible for developing permanent interchange and ramp terminal signage concepts of the five-and-a-half-mile urban corridor , which includes segments of at-grade and elevated mainline, parallel frontage roads , urban interchanges, slip ramps, and connection/modifications to the existing roadway network. Mary is also assisting with the geometric roadway designs, quantity and cost estimating, drainage designs, and MOT concepts.			
07/15 - 06/18	US 90 AT LA 318 INTERCHANGE DESIGN-BUILD LADOTD St. Mary Parish, LA Roadway Engineer. Mary assisted with the plan development of this project which constructed a diamond interchange with frontage roads to replace the current, at-grade, signalized intersection of US90 and LA 318. This included developing horizontal and vertical alignments, drainage design, signing and striping design, maintenance of traffic design, and quantity calculations. Mary also coordinated with utility companies for all required utility relocations on the project, as well as LADOTD Headquarters and the District office to ensure the utilities were relocated in a timely manner to mitigate utility conflicts with the roadway construction.			
01/18 - Ongoing	DIJON DRIVE PHASE I & PHASE II City of Baton Rouge Baton Rouge, LA Roadway Engineer. Stantec designed this roadway on new alignment for the City of Baton Rouge as an access roadway to the new hospital. This fast-paced project includes a four-lane divided roadway on new alignment, sanitary sewer force main, subsurface drainage, signalization, and off-site intersection improvements. Mary's responsibilities include designing the signing and striping layout, calculating quantities to develop a construction cost estimate, and assisting with plan development to produce typical section sheets, plan and profile sheets, summary of quantity sheets, drainage map sheets, geometric detail sheets, signing and striping sheets, and suggested sequence of construction sheets. Mary has also provided construction support for Dijon Phase I.			
10/17 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Lake Charles, LA Lead Roadway Engineer. Stantec is lead designer for this new, high-level bridge and its approaches over the navigational channel of Contraband Bayou. The project provides a crucial link to downtown Lake Charles and the Port of Lake Charles by extending Nelson Road over Contraband Bayou to West Sallier Street. Mary was responsible for the geometric design which included an at-grade railroad crossing, roadway modeling, drainage design, signing and striping, joint layout, and sequence of construction. Mary also assisted with the NEPA Environmental Assessment process and coordination between all stakeholders and is currently providing roadway construction support for this project.			
07/14 - 06/16	US 79 BYPASS AT LA 9 ROUNDABOUT LADOTD Claiborne Parish, LA Roadway Engineer. Project replaced a signalized intersection with a roundabout while maintaining traffic. Mary's responsibilities included managing plan development, client coordination, and the design of all areas of plan development including horizontal and vertical alignments, earthwork modeling, drainage design, signing and striping layout, sequence of construction which required three detour roads and a temporary subsurface drainage system, quantity calculations, and cost estimate for the construction.			
05/12 - 12/21	GOVERNMENT STREET ROAD DIET: STUDY THROUGH FINAL DESIGN LADOTD Baton Rouge, LA Roadway Engineer. Mary designed bike lane facilities and signing/striping layout for this preliminary and final plan design project to upgrade a four-mile portion of Government Street. She assisted with designs/plan development including typical sections, plan sheets, geometric details, signing and striping, and sequence of construction. Mary also calculated quantities, developed the cost estimate for construction, and provided construction support.			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Michael Neumann, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	8	
TITLE	Roadway Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2015 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 45396 LA 9/30/2025		
YEAR REGISTERED	2021	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Michael is a Civil Engineer with experience in designing subsurface and open channel drainage systems, roadway geometry through intersections, and striping plans along a major corridor. His work has encompassed both improvements to existing roadways and roadways on new alignments. Michael has also had a hand in analyzing existing conditions for a high-profile rehabilitation of an existing roadway. He has had both governmental and private client experience in his projects. Michael is familiar with technical programs including: MicroStation, AutoCAD, ArcGIS, InRoads, AutoTURN, StormCAD, and HYDR2009. Michael will perform ROADWAY/DRAINAGE DESIGN for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/17 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Lake Charles, LA Roadway Engineer. This project provides a crucial link to downtown Lake Charles and the Port of Lake Charles by extending Nelson Road over Contraband Bayou to West Sallier Street. Stantec has led the design effort for this new, high-level bridge (56-foot clearance) and approaches over the navigational channel of Contraband Bayou. Michael assisted with the NEPA Environmental Assessment process and coordination between stakeholders, led the drainage design and roadway modeling efforts, and assisted with plan development. He also assisted with drainage and earthwork design. Michael is currently providing roadway construction support for this project.			
05/15 - 12/17	GOVERNMENT STREET ROAD DIET: STUDY THROUGH FINAL DESIGN LADOTD Baton Rouge, LA Engineer Intern. Michael provided analysis of existing project conditions through field work. Michael also provided recommendations to bring conditions up to current ADA standards. Through public meetings held by LADOTD, he met with residents and business owners impacted by the project. Michael also produced construction plans as well as exhibits for public information meetings.			
08/19 - Ongoing	I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD Contract No. H.011670 New Orleans, LA Roadway Engineer for this multi-million-dollar design-build project that will improve access and traffic operations to and around the new Northfield Terminal at the New Orleans International Airport. The project consists of a Diverging Diamond Interchange in addition to flyover ramps leading to/from the Airport on the east side of the interchange. Michael modeled the cross sections in InRoads and calculated earthwork quantities. He also designed the subsurface drainage systems along Loyola/Airport Access Road.			
01/18 - Ongoing	DIJON DRIVE PHASE I & PHASE II City of Baton Rouge Baton Rouge, LA Engineer Intern. Stantec designed this roadway on new alignment for the City of Baton Rouge as an access roadway to the new Our Lady of the Lake Children's Hospital. The fast-paced project includes a four-lane divided roadway on new alignment, sanitary sewer force main, subsurface drainage, signalization, and off-site intersection improvements. Michael performed field condition analysis and floodplain identification through LIDAR data analysis. He also performed open channel design and culvert analysis, subsurface drainage design, and coordinated with LADOTD. This project was recently let and Michael will be assisting with roadway construction support for this project.			
06/20 - 03/23	PERKINS ROAD (SIEGEN TO PECUE) WIDENING TRAFFIC STUDY, ENVIRONMENTAL ASSESSMENT (EA), PRELIMINARY PLANS, FINAL PLANS AND RIGHT-OF-WAY MAPS City of Baton Rouge Baton Rouge, LA Drainage Design Engineer. Under the MOVEBR Program, Stantec is currently completing Final Plans for Perkins Road from Siegen Lane to Pecue Lane using MOVEBR design criteria. This two-lane to four-lane divided roadway widening project accommodates the increase in traffic and improves travel efficiency along this corridor by introducing access management principles which have been shown to increase capacity and safety. Partial median openings and u-turn movements with bulb outs are being provided along the corridor. Michael led the design of five subsurface drainage systems, culvert design, and the drainage report. Final plans for this project were completed in March of 2023.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	John Krebs, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	11	
TITLE	Senior Bridge Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	2	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2008 Civil Engineering; BS 2007 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 37259 LA 9/30/2024		
YEAR REGISTERED	2012	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	John has 13 years of engineering experience providing engineering design and load ratings for bridges and interchanges for LADOTD, MDOT, and KYTC. His primary expertise lies in the engineering analysis and design of a variety of structure types such as prestressed concrete girders, reinforced concrete substructure elements, and retaining walls. He has been heavily involved in the inspection and load rating of existing bridges in both Louisiana and Mississippi. John has an excellent working knowledge of AASHTO LRFD and the LADOTD Bridge Design Manual. He is proficient in several commercial software packages including AASHTOWare BrR, RC-Pier, CONSPAN, MDX, and STAAD. John will serve as BRIDGE DESIGN TASK LEAD and CONSTRUCTION SUPPORT for this contract. John meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 4			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/15 - 06/18	US 90 INTERCHANGE AT LA 318 DESIGN-BUILD LADOTD St. Mary Parish, LA Structural Engineer. This stretch of US 90 has been designated as the future I-49 corridor. The bridges consisted of LG-54 prestressed concrete girder spans with lengths up to 111-ft supported by multi-column concrete bents. John assisted in the proposal development by performing preliminary designs of the major structural elements and later managed the construction support efforts.			
04/11 - 03/15	I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD H.010151 Lake Charles, LA Project Engineer. John was responsible for the design and plan development of three bridges and an MSE wall system load transfer platform. The bridge along I-210 consists of a single, 130-ft-long, LG-54 prestressed concrete girder span founded on true abutments (spread footings). The remaining bridges consist of concrete slab spans founded on concrete pile bents. All design was performed in accordance with AASHTO LRFD Bridge Design. This project received the Highways/Bridges: Award of Merit from the Engineering News Record for Texas and Louisiana in October 2016.			
12/15 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Contract No. H.005967 Lake Charles, LA Structural Engineer. John worked on the bridge and structural design efforts during preliminary plans. Project tasks included preliminary design of bridge superstructure, substructure including foundations, median barrier design, and as-designed load rating. Other design elements include navigational lighting bridge attachments and steel bracket light supports with concrete anchors to the bridge structure. Structural Design was performed in compliance with AASHTO LRFD Specifications. In addition, he completed the vessel study report detailing the expected water-borne vessel traffic and establishing the need for pier protection structures. John will also be assisting with structural construction support for the project.			
03/20 - 10/22	LA 121: CALCASIEU RIVER BRIDGES LADOTD Contract No. H. 009498 Hinston, LA LADOTD Bridge Task Manager. John was responsible for the independent design and plan review of the three LA 121 bridges. Bridge design items included reinforced concrete deck, LG-36 prestressed concrete girders, steel reinforced elastomeric bearing pads, and reinforced concrete end bent and intermediate bent caps. John also managed plan changes as well as quantity input into the AASHTOWare Project database. In addition to design, John updated the internally-cured concrete special provision for colloidal nano silica. The three bridges consisted of a total of five three-span deck units, and a testing scheme was noted in the plans applying the updated special provision.			
11/22 - Ongoing	SR 16/SR 149 FLOODWAY CHANNEL YAZOO RIVER (BRIDGE NOS. 210.9, 211.1, 211.8) MDOT Yazoo City, MS Senior Project Engineer. John is responsible for the analysis, design, and plan development for three bridges crossing the floodway channel of the Yazoo River. Bridge No. 210.1 consists of three 1000-ft, prestressed, FIB 45 spans supported by reinforced concrete bent caps on steel pipe piles. Bridge 211.1 consists of a skewed, 928-ft, three-span continuous steel plate I-girder unit supported by reinforced concrete caps on steel pipe piles for end bents and reinforced concrete caps on drilled shafts for intermediate bents. Bridge 211.8 consists of identical components to Bridge 210.1 and is also in a horizontal curve. As the senior project engineer, John is the technical lead, QC/QA for the design elements and plan development, and coordination with MDOT.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Amir Botros, PhD, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	3	
TITLE	Senior Structural Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	15	
DEGREE(S) / YEARS / SPECIALIZATION		PhD 2015 Civil Engineering; MS 2009 Civil Engineering; BS 2005 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 43701 LA 3/31/2024		
YEAR REGISTERED	2019	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	As lead engineer, Amir will supervise the structure engineering team on the load rating tasks under this retainer contract. Additionally, he will perform complex structural analysis/finite element analysis (if necessary), and review load rating reports prepared by structural team members. Amir has been a member of the precast prestressed concrete institute (PCI) for many years and has participated in many of the PCI research projects. Amir will perform BRIDGE DESIGN for this contract. Amir meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 5			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/21 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS Mississippi Office of State Aid Road Construction Statewide, MS Lead Rating QA/QC. Amir oversees QA/QC load rating analyses for over 200 bridges annually. Inspections performed by Stantec assist with developing load rating models and performing analysis using AASHTOWare BrR, RC Pier, and STAAD. Load ratings are performed in accordance with AASHTO MBE and using the load factor rating (LFR) method to match the original design as requested by the client. Structure types include steel trusses, structural steel plate girders, reinforced concrete girders and slabs, reinforced concrete box culverts, and prestressed concrete girders.			
10/21 - 04/22	TRUSS BRIDGE INSPECTIONS AND LOAD RATINGS MDOT Statewide, MS Lead Structural Engineer. This project included inspecting and load rating four complex steel through truss bridges. Amir's responsibilities included performing quality reviews of load ratings for the four truss bridges. AASHTOWare BrR was used to model and analyze all truss members including main members, floor beams, stringers, and gusset plates. LFR method was used at the request of MDOT and to have the ability to compare with the original designs.			
03/16 - 09/16	US 80 RED RIVER TEXAS STREET BRIDGE: INSPECTION AND LOAD RATING LADOTD H.011484 Bossier, LA Senior Structural Engineer. Amir's responsibilities performing load rating analysis for the truss members and Gusset plates using Bridge Rating software, preparation of load rating report for the bridge with proposed repair recommendations for the deficient elements and development of a 3D finite element model using Midas Civil Software for verification of the load effects on the truss members.			
02/21 - 04/21	LOAD RATING OF MALL OF LOUISIANA BRIDGES CITY OF BATON ROUGE Baton Rouge, LA Lead Structural Engineer. This project consisted of rating of three bridges in accordance with LADOTD Policies and Guidelines for Bridge Rating and Evaluation. Bridge types comprised prestressed LG concrete girders and Quad beams. Substructures comprised reinforced concrete caps and prestressed concrete piles. Amir reviewed the as-built plans of the bridges, determined appropriate load rating method, supervised engineers on load rating analysis and reviewed the load rating reports.			
01/17 - 10/18	US 80 RED RIVER BRIDGE TEXAS STREET REHABILITATION PLANS LADOTD H.011484 Bossier, LA Senior Structural Engineer. Amir's responsibilities included design of appropriate strengthening systems for the deficient truss members and gusset plates for the deck truss spans and the main truss spans. Design of suitable strengthening schemes for the reinforced concrete T beams of the approach spans, the concrete pile bents, and the two column bents using carbon fiber reinforced polymer sheets (CFRP). Preparation of the rehab plans of the bridge followed the design phase and the 100% final plans were submitted in October 2018.			
10/19 - 12/20	RC CULVERTS TESTING AND RATING OF 100 CULVERTS LADOTD H.009859.5 Statewide, LA Lead Structural Engineer. This project consisted of developing a load rating methodology for reinforced concrete box culverts that accounts for the actual field conditions, performance history, and advanced modeling techniques. Results were verified through diagnostic testing of a sample of culverts representing the existing LA inventory. Amir's responsibilities included building 3D FE analytical models of the parametric study, designing instrumentation and diagnostic load test procedure, development of load rating guidelines, and a technical report that summarizes the proposed load rating guidelines and supervising engineers on load rating 100 representative culverts selected from the existing Louisiana inventory using the proposed guidelines.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Kunal Malpani, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	10	
TITLE	Structural Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2012 Civil Engineering; BS 2010 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 43016 LA 3/31/2025		
YEAR REGISTERED	2018	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Kunal has 10 years of engineering experience with an emphasis on structural projects. His primary focus has been in the analysis, design, rating, and inspection of a variety of bridge types including prestressed concrete girders, structural steel plate girders, concrete slab spans, multi-column concrete bents, and pile bents. He is proficient in commercial software packages such as AASHTOWare BrDR, RC-Pier, CONSPAN, MDX, and STAAD. In addition to bridge design, Kunal has been involved in the design of highway sign structures and reviewing structural shop drawings. Kunal will perform BRIDGE DESIGN and CONSTRUCTION SUPPORT for this contract. Kunal meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 5			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/13 - 03/17	LADOTD LOAD RATING AND POSTING OF 630+ ON-SYSTEM BRIDGES LADOTD STATEWIDE, LA Engineer Intern. Kunal was responsible for performing load ratings and developing summary reports on a variety of structures including prestressed concrete girders, concrete slab spans, structural steel spans, timber and steel pile bents, and concrete hammerhead piers. More than 630 bridges statewide were load rated in accordance with current LADOTD and AASHTO specifications. Models were developed in AASHTOWare BrR and RC-Pier to determine rating factors and bridge posting requirements.			
09/13 - 11/17	LADOTD RETAINER CONTRACT FOR BRIDGE LOAD RATING LADOTD STATEWIDE, LA Load Rating Engineer. Kunal was responsible for developing LFR rating procedure using AASHTOWare BrR and STAAD for superstructure as per AASHTO MBE. Highlights of the project include rating Long Span Steel Through Trusses, Short span Steel Pony Trusses, and Masonry Arch Bridges.			
01/17 - 10/18	LOAD RATING AND POSTING OF 110 ON-SYSTEM BRIDGES LADOTD STATEWIDE, LA Structural Engineer. Kunal's responsibilities included developing the LRFR rating procedure using the AASHTO Bridge Rating Software for superstructure and LEAP RC Pier for substructure as per AASHTO MBE and LADOTD rating guidelines. The project included load rating and posting of various bridge superstructure types including slab spans, prestressed concrete girders, rolled steel girders, and built-up steel plate girders. Bridges are located throughout the state and were load rated in accordance with LADOTD and AASHTO specifications. ASHTOWare BrR, CSI Bridge, and RC-Pier were used to determine rating factors and posting requirements. A highlight of the project was rating an 18,000 ft. long bridge with 268 spans on I-10 over New Orleans city streets.			
10/17 - 01/19	AASHTOWARE BRIDGE LOAD RATING MDOT STATEWIDE, MS Load Rating Engineer. This project included load rating of 120 bridges in Mississippi. Load ratings were performed in accordance with the AASHTO LRFR or LFR method and current MDOT Standards. Only superstructure elements were considered for the load rating analysis. Structure types included steel plate girders, prestressed concrete girders, reinforced concrete T-beams, concrete slabs, and reinforced concrete multi-cell box girders (integral and non-integral). Kunal was responsible for load ratings and performing QC/QA. A project highlight was modeling the integral concrete box girders which took an extreme (up to 40 hours) to run in the software.			
02/19 - 04/19	ALDOT LOAD RATING OF 30 BRIDGES ALDOT STATEWIDE, AL Load Rating Engineer. This project included load rating of 30 bridges in Alabama. Load ratings were performed in accordance with the AASHTO LFR method and current ALDOT Standards. Only superstructure elements were considered for the load rating analysis. Structure types included steel plate girders, prestressed concrete girders, reinforced concrete T-beams, and concrete slabs. Comprehensive analysis referred to as Non-Standard Gage (NSG) or Distribution Factor-Line Girder Analysis was performed when Emergency Vehicle produced a rating factor less than 1.0. Kunal was responsible for load ratings and performing QC/QA.			
06/16 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS MISSISSIPPI OFFICE OF STATE AID ROAD CONSTRUCTION STATEWIDE, MS Load Rating Engineer and Inspection Team Leader. This project includes the inspection and load rating of over 100 off-system bridges in 17 different Mississippi Counties. Inspections and load ratings are performed in accordance with current NBIS and procedures as outlined in the AASHTO MBE. Structure types include steel trusses, structural steel plate girders, steel railroad flat cars, reinforced concrete girders and slabs, reinforced concrete box culverts, and masonry arches. Kunal is responsible for field inspections, load ratings, inspection reports, and QC/QA on load ratings.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Maggie Ye, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	3	
TITLE	Structural Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	4	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2016 Civil Engineering; BS 2013 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 44061 LA 3/31/2024		
YEAR REGISTERED	2019	DISCIPLINE	Civil Engineering	
Contract role(s) / brief description of responsibilities	Maggie assists the project manager with bridge designs, compiling bridge plans, and QC/QA of load rating models and reports. She also helps EIs in developing load rating models. Maggie will perform BRIDGE DESIGN for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/20 - Ongoing	MISSISSIPPI STATEWIDE COMPLEX BRIDGE INSPECTIONS & LOAD RATINGS MISSISSIPPI OFFICE OF STATE AID ROAD CONSTRUCTION STATEWIDE, MS Bridge Engineer. Maggie's main task is to QC and QA the load rating models and reports that are developed by the EIs. She uses Bridge Rating and RC-Pier load rating software to review different types of bridges including timber bridges, box culvert bridges, slab spans, prestressed beams etc. She also reviews the hand calculation of LLDF for culvert box, dead load input for substructure, and timber piles' load rating factors.			
10/21 - 04/22	TRUSS BRIDGE INSPECTIONS AND LOAD RATING MDOT STATEWIDE, MS Bridge Load Rater. Maggie used the existing plans and site measurements to load rate the complex truss bridge. The load rating consisted of rating truss members, gusset plates, stringers, and floor beams. She prepared the load rating reports including detailed truss rating results in accordance with client's requirement.			
02/19 - 08/19	LOAD TESTING OF BERWICK BAY BRIDGE AND LA-1 BRIDGE LADOTD STATEWIDE, LA Site Engineer. Maggie assisted the project engineer to installing sensors on the bottom of the bridge deck and connecting the sensors to computers. She guided the loaded truck on the bridge and analyzed the collected deflections from sensors. She gained on-site experience as well as knowledge that the load rating results were much more conservative than the load testing results.			
02/19 - 08/19	27 COMPLEX OFF-SYSTEM BRIDGES RATING AND EVALUATION LADOTD H.009859.5 STATEWIDE, LA Structural Engineer. This project consisted of load rating 27 complex off-system bridges in accordance with LADOTD Policies and Guidelines for Bridge Rating and Evaluation. The bridge types comprised ferry-toll, pontoon, steel I-beam, plate girder swing spans, plate girder continuous spans, plate girder bascule spans, low truss swing spans, plate girder swing spans, and steel box girder. Maggie's responsibilities included reviewing the as-built drawings of the bridges and determining the appropriate load rating method, developing the load rating models, and preparing the load rating reports.			
02/19 - 08/19	LOAD RATING OF 396 OFF SYSTEM BRIDGES LADOTD H.012485.5 STATEWIDE, LA Bridge Load Rater. Load rating of 396 bridges in accordance with LADOTD Policies and Guidelines for Bridge Rating and Evaluation. Bridge types comprised cast in place concrete slab spans, precast concrete slab spans, prestressed concrete girders, steel plate-girders, in addition to RC box and arch culverts. Substructures comprised various components including reinforced concrete caps, timber caps, timber piles, and steel H piles. Maggie participated in performing the load rating analysis for the bridges and preparation of the load rating reports.			
11/19 - 04/20	US-90 MACARTHUR INTERCHANGE PHASE II LADOTD JEFFERSON, LA Bridge Designer. This project consisted of designing two access ramps to/from the service roads to the elevated viaduct. Ramps structures consisted of complex structural elements including precast- prestressed U-shaped girders and LG-girders, inverted-T piers, complex columns, and foundations. Maggie's responsibilities included performing the final design of the superstructure including the deck, prestressed LU girders and LG girders for the 22 spans off-ramp and the 24 spans on-ramp along with preparation of the plans.			
08/19 - 01/20	LOAD RATING OF 18 COMPLEX BRIDGES LADOTD STATEWIDE, LA Bridge Load Rater. Maggie conducted the load rating of several complex bridges including a steel bascule span bridge and irregular geometry steel plate girder bridge. The load rating involved engineering judgment and hand-calculation of the counterweight of the bascule span bridge. She also rated a curved steel plate girder span and a straight steel girder with curved deck span.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Joey Lefante, PE, PTOE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	15	
TITLE	Senior Associate, Traffic Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2008 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 37244 LA 09/30/2024		
YEAR REGISTERED	2012	DISCIPLINE	Civil Engineering PTOE #3560, 2013	
Contract role(s) / brief description of responsibilities	Joey has over 15 years of experience working on major traffic projects, preparing feasibility studies and interchange modification reports, and leading improvements through plan design and signal construction. His experience using various analysis software packages, including TransCAD, Synchro, and VISSIM, allows him to determine innovative transportation solutions tailored to each individual situation. Joey will serve as TRAFFIC ENGINEERING LEAD for this contract. Joey meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 8			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/14 - Ongoing	I-49 LAFAYETTE CONNECTOR LADOTD Lafayette, LA Traffic Task Manager. Joey is responsible for coordination with LADOTD traffic staff and managing analysis of various geometric design alternatives. This project includes a comprehensive Vistro model and additional analyses using TransCAD, VISSIM, and Sidra software packages. It follows the Access Justification Request (AJR) guidelines established by LADOTD and FHWA. Joey has been involved in the Context Sensitive Solutions (CSS) process, attending community meetings. Feedback from the CSS process has informed changes to ramp layouts and interchange design and has enabled Stantec to redesign several key elements to emphasize urban design principles, including pedestrian and bicycle accommodations. Joey is responsible for documenting the project to follow LADOTD Traffic Engineering Process and Report (TEPR) Guidelines.			
01/09 - Ongoing	I-49 INNER CITY CONNECTOR STAGE 0-1, STUDY & IJR LADOTD SHREVEPORT, LA Lead Traffic Engineer. Performing the NEPA investigations and developing an Interchange Modification Report (IMR) and an Interchange Justification Report (IJR). This 3.5-mile route will provide the final nationwide link of I-49 by connecting the existing I-49/I-20 interchange to the proposed I-49/I-220 interchange. Joey used a Regional Travel Demand Forecasting Model provided by the Northwest Louisiana Council of Governments (NLCOG) to project traffic for each of the future analysis years. He modified the macroscopic model to determine future traffic patterns under three design alternatives representing different interchange combinations and used traffic counts and the projections from the macroscopic model to develop peak hour traffic volumes for each alternative. Joey will input these traffic run analyses using the Highway Capacity Manual to determine which roadway improvements would be necessary for implementation of each alternative.			
04/11 - 06/15	I-210 / COVE LANE INTERCHANGE AND ROUNDABOUT LADOTD LAKE CHARLES, LA Lead Traffic Engineer. Joey developed an Interchange Justification Report (IJR) for I-210 between Cove Lane and Nelson Road interchanges on Port of Lake Charles property. He developed peak hour traffic volumes for 28 possible design alternatives, which took into account and accommodated for all future developments in the area, including the Nelson Road Bridge over Contraband Bayou and the Ameristar Casino and Hotel development north of I-210. Joey coordinated the collection of traffic counts and performed field calibration of the traffic models by collecting data such as queues and travel times. Once the alternatives were narrowed down to the final, Joey performed HCS and SIDRA analyses on over 50 locations per alternative. The recommended alternative included innovative interchange configurations including roundabout ramp terminals at Cove Lane and a Diverging Diamond Interchange (DDI) at Nelson Road.			
11/10 - Ongoing	NELSON ROAD EXTENSION AND BRIDGE LADOTD Contract No. H.005967 Lake Charles, LA Traffic Engineer. Joey ran traffic analyses for the different bridge tie-ins being studied. Also included in the traffic analysis was a consideration of the impact of the bridge on the surrounding roadway network. The Regional Travel Demand Model was modified in TransCAD to determine the effects of the bridge construction. Joey will be providing Traffic construction support for the project.			
08/14 - 08/19	W. PRIEN LAKE ROAD RELOCATION LADOTD Lake Charles, LA Lead Traffic Engineer. Joey led traffic services on this project that featured a new signalized intersection at the relocated roadway and Nelson Rd., which required Stantec to develop traffic signal warrants, signal timing analyses and signal plans. Since the improvements impacted certain areas near the Nelson Rd. Interchange at I-210, Stantec developed a Level 2 TMP document. This project improved traffic flow in this very congested area of Southwest Lake Charles.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Stephen Mensah, PhD, PE, PTOE, RSP1	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	11	
TITLE	Associate, TSMO Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5	
DEGREE(S) / YEARS / SPECIALIZATION		PhD 2007 Civil Infrastructure Systems in Transportation; MS 2002 Civil Engineering; BS 1998 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 38591 LA 09/30/2024		
YEAR REGISTERED	2013	DISCIPLINE	Civil Engineering; PTOE #3960, 2013	
Contract role(s) / brief description of responsibilities	Stephen is a TSMO engineer with over 16 years of experience, specializing in TSMO planning, analysis, and performance monitoring. His work experience includes highway safety analysis, traffic impact studies, systems engineering analysis, regional ITS architecture development, and traffic signal design. He has a long-standing history of planning for and implementing TSMO strategies with DOTs throughout the country. He has built relationships with agencies and stakeholders throughout Louisiana through his planning work delivering Regional ITS Architectures for nearly all MPOs in the state. Stephen has delivered many TSMO-oriented projects collaboratively with his clients to meet their needs while working within budget and schedule. Stephen served as a member of the TRB Committee for Application of Emerging Technologies to Design and Construction, which brings valuable experience and lessons-learned to this contract. Stephen will perform TRAFFIC & SAFETY ENGINEERING for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
2021 - Ongoing	ATCMTD GRANT PROJECT FOR ICM DSS TENNESSEE DEPARTMENT OF TRANSPORTATION Nashville, TN Systems Engineering Analyst. TDOT was awarded an ATCMTD Grant from USDOT with a goal of deploying an integrated corridor management (ICM) decision support system (DSS). Currently, ICM DSS is primarily accomplished utilizing a traffic simulation model specific to the corridor. This project aims to replace the traffic simulation model with artificial intelligence, creating a proof of concept that can be duplicated in other corridors around the United States. Stephen contributed to development of the Data Management Plan and Project Evaluation Plan to help USDOT and TDOT analyze evaluate the benefits of the AI-DSS in ICM applications. Stephen is currently using existing operations data to baseline various performance metrics that will then be used to evaluate the performance of various operation strategies that include variable speed limit signs, lane control signals, and surface street signal operations and timing.			
08/22 - Ongoing	LOUISIANA REGIONAL ITS ARCHITECTURES LADOTD Statewide, LA Project Manager. Developed regional architecture and ITS deployment plans for several metro areas, including Shreveport, Lafayette, New Orleans, and Baton Rouge, based on the Architecture Reference for Cooperative and Intelligent Transportation framework. These regional architectures are important and help metro areas manage traffic and ensure public safety on highway system which directly impacts socioeconomic activities in these areas. Stephen organized and participated in stakeholder meetings/interviews to define project scope and developed planning documents to guide ITS developments for a five-to-ten-year time frame. He developed the planning document by identifying current and emerging issues in transportation mobility and safety for the metro areas, proposed systems and requirements to address the issues, and developed communication data flow diagrams using RAD-IT. He also used a structured approach to develop the regional ITS architectures so that the systems implemented are relevant and meet user needs, resilient and adaptable. Stephen is currently developing the Statewide ITS architecture document which will guide DOTD ITS planning for the future.			
07/15 - Ongoing	I-49 LAFAYETTE CONNECTOR LADOTD Lafayette, LA TSMO Engineer. Stephen is responsible for the safety analysis of interchange designs providing inputs for crash mitigation. The scope of the safety analysis includes historical crash analysis to understand safety performance within the corridor and how that would impact TMP. Stephen further developed an IHSDM model of the corridor to predict and evaluate safety performance of various geometric alternatives considered for the project and to guide selection of a build alternative that fosters safety for all road users.			
02/18 - 08/20	ALEXANDRIA ITS PHASE 3 LADOTD CONTRACT NO. 011505 Alexandria, LA Systems Engineering Analysis. Stephen performed the system engineering analysis to guide the successful implementation of this project by reducing risk and ensuring user needs are met to improve mobility and safety on the US 71 and LA 28 corridors in Alexandria. The activities involved traffic signal communications upgrades, traffic monitoring, traveler information, and communications. Stephen coordinated with stakeholders to develop the concept of operations and the requirements that had to be met during design to ensure stakeholder needs are met. This project will save users time and ensure safer corridors for operation. During emergencies such as fog or icy conditions on I-49, this corridor will be a more resilient detour route to help mitigate congestion.			



FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Matt Davis, PE, PTOE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	13	
TITLE	Senior Associate, Traffic and ITS Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		BS 2009 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 38947 LA 09/30/2024		
YEAR REGISTERED	2014	DISCIPLINE	Civil Engineering; PTOE #3914, 2015	
Contract role(s) / brief description of responsibilities	<p>Matt will perform design and detail checks for traffic engineering deliverables in accordance with the DOTD Accepted QC/QA Plan. He will utilize his prior experience delivering transportation improvement projects across many states, including many with DOTD in Louisiana, to ensure Transportation Management Plans and Traffic Signal plans conform to DOTD Traffic Engineering standards while applicable codes and standards are followed including the DOTD Traffic Signal Design Manual, DOTD Standard Plans and Details, MUTCD, NEC, and IEEE. Furthermore, Matt has completed DOTD's Traffic Engineering Process and Report courses and has utilized the resulting certification to serve as QC Reviewer over several traffic engineering reports including IMRs with complex intersection. Matt will perform TRAFFIC ENGINEERING for this contract. Matt meets the following Minimum Personnel Requirements (MPRs) as specified in the advertisement for this project: 8</p>			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/18 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN-BUILD LADOTD CONTRACT NO. H.011670 KENNER, LA Traffic Quality Control Reviewer. Matt performed quality review on ITS and traffic signal plans as well as the VISSIM model developed for the Diverging Diamond Interchange signals and the Transportation Management Plan prepared for this design-build project. The project also includes adjacent signalized intersections north and south of the interchange along with a multi-use path for pedestrian and bicycle accommodations. The Veterans Boulevard intersection with Loyola Avenue utilizes traffic signal equipment mounted to the flyover bridge structures.</p>			
04/11 - 06/15	<p>I-210: COVE LANE INTERCHANGE AND IMPROVEMENTS PROJECT LADOTD LAKE CHARLES, LA Traffic Engineer. Matt developed an IJR for I-210 between Cove Lane and Nelson Road interchanges. Coordination contributed to the expedited 8-month NTP to FONSI EA timeline realized for this high-profile project. Peak hour traffic volumes for 28 possible design alternatives accommodated all future developments including the Ameristar Casino and Hotel north of I-210. Alternatives were reduced to 8, on which HCS and SIDRA analyses for over 50 locations per alternative were performed.</p>			
08/15 - 09/19	<p>LA 3064 TO LA 1248 PHASE I AND II DIJON DRIVE EXTENSION LADOTD CONTRACT NO. H.012233 BATON ROUGE, LA Traffic Engineer. Matt performed the traffic analysis and developed the report for this project. Stantec was selected by Our Lady of the Lake and Baton Rouge General Hospitals to study the feasibility of building a new road between Bluebonnet Boulevard and Essen Lane in Baton Rouge to help relieve traffic and improve access within this important medical district. Matt was tasked with analyzing the traffic impacts generated by the new road along with planned developments within the study area. A total of twelve intersections along Essen Lanes and eleven intersections along Bluebonnet Boulevard were studied during the morning, noon, afternoon, and weekend peak periods.</p>			
05/12 - 12/17	<p>GOVERNMENT STREET ROAD DIET: STUDY THROUGH FINAL DESIGN LADOTD BATON ROUGE, LA Traffic Engineer. Matt served as Traffic Engineer for a feasibility study of performing a road diet on Government Street in Baton Rouge by reducing the existing four-lane section down to a three-lane section with one lane in each direction, a two-way left turn lane, and a bike lane in each direction. Matt designed the traffic signals and temporary traffic signals along this four-mile project. He also coordinated signal timings along the corridor.</p>			
10/13 - 10/20	<p>NELSON ROAD EXTENSION AND BRIDGE LADOTD CONTRACT NO. H.005967 LAKE CHARLES, LA Traffic Quality Control Reviewer. Matt has performed quality review on the traffic signal plans for the Nelson Road Extension Bridge. The plan design included signal sheets on the roadway as well as for a private rail crossing.</p>			
07/15 - Ongoing	<p>I-49 LAFAYETTE CONNECTOR LADOTD CONTRACT NO. H.004273.5 LAFAYETTE, LA Traffic QC. Matt is responsible for performing QC reviews on various geometric design alternatives within the ongoing CSS and TEPR processes. The analysis includes a comprehensive VISSIM model of the Lafayette area that has been calibrated to LADOTD standards. Matt is responsible for providing a QC review of the systems engineering analysis report for the ITS deployment along the corridor. The project is following LADOTD's Process and Report format.</p>			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Joseph "Keith" Palermo, PE, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Construction Manager	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	28	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1993 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 27665 LA 3/31/2024 PLS No. 4791 LA 3/31/2024		
YEAR REGISTERED	1998	DISCIPLINE	Civil Engineering; Professional Land Surveyor	
Contract role(s) / brief description of responsibilities	Keith has 28 years of engineering experience in the maintenance and construction of roads and bridges gained through employment with LADOTD. He is experienced in working with local, state, and federal officials. Keith will serve as ROADWAY CONSTRUCTION SUPPORT (IF NEEDED) for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/22-present	MOVEBR Enhancement Program- Construction Manager Baton Rouge, LA Construction Manager. Keith is responsible for Design QC Reviews and Constructability reviews for this Community Enhancement Program focused on improving key roadways and roadway corridors by adding capacity or enhancement feature such as ADA and bicycle improvements. Keith is also responsible for construction contract administration including verifying contractor's quantities for payment; approving invoices for testing lab services; approving contractor's estimates and preparing change orders for the City of Baton Rouge. Keith supervises the field inspectors on multiple roadway and pathway projects and responds to contractor's questions, resolves field issues, and conducts shop drawing and submittal reviews.			
09/13 - 07/22	LADOTD, DISTRICT 61 LA Engineer/Area Engineer. Responsible for all maintenance, construction, and contract maintenance for a four-parish area (Pointe Coupee, West Baton Rouge, East Feliciana, and West Feliciana), including all aspects of construction contract administration and maintenance programming needs. Responsible for the productivity of two Project Engineer offices and four parish maintenance offices totaling approximately 74 employees. Provided input and direct project development and delivery in line with transportation needs. Developed and maintained effective working relationships with a diverse group of stakeholders, including representatives of the FHWA, US Army Corps of Engineers, industry contractors, consultants, public officials, and the general public. Planned and executed Emergency Support related to the Flood of 2016. Testified on behalf of DOTD in depositions and court cases. Since 2018, due to the lack of experienced Project Engineers, along with his normal Area Engineer duties, Keith was also the Project Engineer of DOTD's Mcmanus Project Engineer office and the Project Engineer of DOTD's Port Allen Project Engineer office.			
11/12 - 09/13	LADOTD, DISTRICT 61 LA Area Engineer. Responsible for all maintenance, construction, and contract maintenance, for East Baton Rouge Parish including all aspects of construction contract administration and maintenance programming needs Responsible for the productivity of two Project Engineer offices and one parish maintenance office totaling approximately 45 employees. Responsible for the maintenance and operation of seven pumping stations within East Baton Rouge Parish.			
07/99 - 11/12	LADOTD, DISTRICT 61 LA Project Engineer. Supervised a team of inspectors and office personnel while performing Construction Contract Administration for many types of highway and bridge construction projects, including PCC pavement, bridges, driven pile foundations, drilled shaft foundations, sound walls, asphaltic pavement, drainage structures, retaining walls, embankment and base course, repairs to movable bridges, traffic signals, traffic cameras, striping, and other incidental types of work. Planned and executed recovery activities for Hurricane Gustav contract debris removal operations in Pointe Coupee, and West Baton Rouge parishes.			
03/94 - 07/99	LADOTD, HEADQUARTERS PAVEMENT AND GEOTECHNICAL SECTION LA Design Engineer. Engineer in Training II. Engineer in Training I. Designed pile foundations for bridge projects throughout the state. Performed dynamic pile analysis in the field using DOTD's pile driving analyzer (PDA), evaluated the data, and made recommendations pertaining to pile driving hammer performance, pile driving criteria, pile integrity, pile stresses, and pile capacity. Performed embankment stability and settlement analyses.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Scott Hoffeld, CEP	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	3	
TITLE	Senior Project Manager, Environmental	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	26	
DEGREE(S) / YEARS / SPECIALIZATION		MS 1994 Resource Management and Administration; BA 1989 Economics		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		CEP No. 02040408 LA N/A		
YEAR REGISTERED	2002	DISCIPLINE	Certified Environmental Professional of the Academy of Board Certified Environmental Professionals	
Contract role(s) / brief description of responsibilities	Scott is a Senior Environmental/Transportation Planner and Economist with over 29 years of NEPA and permitting experience for LADOTD, spanning from EAs, CEs and re-evaluations to complete multi-phased and 3rd party EISs and supplemental EISs. His project experience has included IJR; hazardous materials; and EJ outreach/involvement, impact and mitigation analyses; and the use of benefit-cost analysis in public-project alternative investment and decision-making. He has completed the DOTD TEPR training, NHI NEPA Decision-Making course among many others. Scott will serve as ENVIRONMENTAL SUPPORT SERVICES (IF NEEDED) for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/15 - 03/17	EA AND REEVALUATION FOR DIJON EXTENSION IMPROVEMENTS CITY OF BATON ROUGE H.012233/H.012232 BATON ROUGE, LA Project Manager. Responsible for EA and public outreach for short connector roadway between LA 3064 (Essen Lane) and LA 1248 (Bluebonnet Boulevard) in Baton Rouge. The project involved coordination with the Our Lady of the Lake and The General hospitals regarding future development plans, as well as consideration of future bikeway plans for the City of Baton Rouge.			
01/03 - 07/08	I-69 ENVIRONMENTAL IMPACT STATEMENT, SIU NO.14 LADOTD/ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT Shreveport, LA and El Dorado, AR Deputy Project Manager. Scott served as Deputy Project Manager for section of independent utility number 14, spanning between Shreveport, LA and El Dorado, AR through a rural timber and poultry farming area. The study area is studded with historic properties and oil wells among parcels of the Kisatchie National Forest properties, the Bodcau Wildlife Management Area, and the Bodcau Reservoir Recreational Area. Bayou Dorcheat, a Louisiana scenic stream, must be crossed with a new structure that must be designed and ameliorated to avoid and minimize adverse effects to Bayou Dorcheat's scenic uses.			
02/04 - 09/05	I-210 AT COVE LANE INTERCHANGE IMPROVEMENTS AND EA LADOTD Lake Charles, LA NEPA Project Manager. Scott worked with Stantec, formerly ABMB during this project. He served as NEPA Project Manager for this aggressive seven-month NTP to FONSI, high-profile interstate interchange improvement project in Lake Charles. Project need is related to a new casino special traffic generator. Expedited work included completion of outreach, field work, and analysis of six build alternatives within six weeks of the NTP. Special NEPA documentation and review protocols were proposed and approved by LADOTD and FHWA, enabling environmental streamlining and reduction of schedule by over 55 percent.			
04/10 - 10/14	EA FOR CHEF MENTEUR BRIDGE AND APPROACHES REPLACEMENT - WITH FONSI LADOTD Orleans Parish, LA Project Manager. Scott was the project manager for a high-priority bridge replacement EA and Line and Grade Study, responsible for coordination and technical assessment of key issues. Both movable and fixed-span designs are under consideration along three alignments in an area of notable environmental and design challenges. Built in 1930, the existing US 90 swing-span bridge over Chef Menteur Pass has two 10-foot lanes, no shoulders and a bridge sufficiency rating of 37. Environmental constraints include the abutting Venetian Isles subdivision, Fort Macomb structure and state parkland, terrestrial and submerged archaeological sites, and the Bayou Sauvage National Wildlife Refuge. Intensive public and agency outreach and involvement was initiated along with computerized renderings of postconstruction views to be used in the effort.			
01/10 - 12/15	EA/IMR AND ROUNDABOUTS ANALYSIS FOR KANSAS LANE - GARRETT ROAD CONNECTOR AND I-120 INTERCHANGE LADOTD Monroe, LA Project Manager. Scott served as Project Manager for an I-20 interchange improvement abutting the Pecanland Mall in Monroe. Coordination was required with the Kansas City Southern railroad in the evaluation of alternative crossing locations and bridge/tunnel options. Railroad crossing safety improvements were evaluated and costed. Local mall-patron travel patterns were evaluated in detail along with potential roundabout options, which included combining frontage roads with I-20 ramps.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Brian Newman, PWS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Senior Environmental Scientist	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	18	
DEGREE(S) / YEARS / SPECIALIZATION		MS 2011 Environmental Science; BS 2004 Wildlife Management		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		Professional Wetland Scientist #3128 LA 2024		
YEAR REGISTERED	2019	DISCIPLINE	CERTIFICATION: Wetland Delineation Training, 2007	
Contract role(s) / brief description of responsibilities	Brian has 19 years of experience in ecological permitting and evaluation. Brian specializes in US Army Corps of Engineers Section 404 and Section 408 permitting and Coastal Use Permitting for oil and gas pipelines, petrochemical facilities (greenfield development and expansion), mining and manufacturing facilities. Other experience includes participation in development of Environmental Impact Statements (EIS), Federal Energy Regulatory Commission (FERC) applications assisting with RR2 and RR3, Scenic Rivers permitting, local levee district permitting, Endangered Species Act (ESA) consultations, Bald and Golden Eagle Management Act consultations, mitigation banking, Natural Resource Damage Assessments (NRDA), SCAT surveys, spill response and emergency response. Brian has working in many states including Louisiana, Mississippi, Alabama, Florida, Georgia, Tennessee, Texas, Arkansas, Oklahoma, Kansas, Colorado, Wyoming and Utah. Brian will serve as ENVIRONMENTAL SUPPORT SERVICES (IF NEEDED) for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/15 - 05/17	PROJECT SWORDFISH PIPELINE LOUISIANA Project Manager/Permitting Lead. Responsible for oversight of cultural and biological surveys. Developed routing and siting, alternatives analysis, preparing federal, state, and local environmental permits, and supporting agency coordination. Permit applications included USACE Section 404/10 and Section 408 permits, LDNR Coastal Use Permits, levee district LONOs, and threatened and endangered species clearances.			
05/19 - 02/22	TEXAS GULFLINK PROJECT TEXAS Ecological Permitting Lead. Responsible for oversight of cultural and biological surveys. Responsible for development of USACE Section 404/10 and Section 408 permits, TGLO Coastal Consistency Determination, and threatened and endangered species consultations. Developed biological resources sections within an Environmental Impact Assessment for US Coast Guard Deepwater Port License.			
03/13 - 08/14	PLAIN ALL-AMERICAN LA PIPELINE PROJECT LOUISIANA Project Manager/Permitting Lead. Responsible for oversight of cultural and biological surveys. Developed routing and siting, alternatives analysis, preparing federal, state, and local environmental permits, and supporting agency coordination. Permit applications included USACE Section 404/10 and Section 408 permits, LDNR Coastal Use Permits and local Coastal Zone program consistency determination.			
06/13 - 11/19	NUSTAR, ST. JAMES TERMINAL LOUISIANA Ecological Permitting Lead. Responsible for oversight of biological and cultural surveys. Developed routing and siting, alternatives analysis, preparing federal, state, and local environmental permits, and supporting agency coordination. Permit applications included USACE Section 404/10 and Section 408 permits, LDNR Coastal Use Permit and levee district LONO. Also included renewal of annual dredge permits issued by USACE and LDNR.			
05/21 - 12/22	CONFIDENTIAL FACILITY REPURPOSING PROJECT LOUISIANA Ecological Permitting Lead. Responsible for complex multi-stage USACE Section 404 and 408 permitting efforts for facility repurposing and linear project. Developed routing, siting and alternatives analysis. Included weekly stakeholder engagement, agency coordination, oversight of biological and cultural surveys, development permitting strategies during changing scopes and presentations to senior business managers. Preparation of multiple permit applications including USACE Section 404/10 and Section 408 permits, LDNR Coastal Use Permits and levee district LONOs.			
01/12 - 06/14	CLOVELLY FACILITY TANS EXPANSION LOOP, LLC LOUISIANA Project Manager/Permitting Lead. Responsible for oversight of biological surveys. Prepared federal, state, and local environmental permits, and supporting agency coordination. Permit applications and authorization included USACE Section 404/10 permit and LDNR Coastal Consistency Determination.			


FIRM EMPLOYED BY		Stantec Consulting Services Inc.		
NAME	Elton Muzny	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	1	
TITLE	Senior Environmental Scientist	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	21	
DEGREE(S) / YEARS / SPECIALIZATION		BS 1998 Wildlife & Fisheries Science		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		N/A		
YEAR REGISTERED	N/A	DISCIPLINE	N/A	
Contract role(s) / brief description of responsibilities	Elton is a Senior Environmental Scientist with 22+ years of combined experience as a project manager and environmental scientist specializing in field assessments for biological, ecological, and threatened and endangered species surveys, monitoring, and mitigation. Elton's T&E spp. survey experience notably includes the red cockaded woodpecker, where he has completed numerous surveys in the Gulf Coast region spanning from Texas through Mississippi. Elton will serve as ENVIRONMENTAL SUPPORT SERVICES (IF NEEDED) for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/23 - 06/23	EAST KENTUCKY AVENUE EXPANSION CITY OF RUSTON, LA RUSTON, LA Lead Environmental Scientist. Served as Lead Environmental Scientist for wetlands and waterbodies delineation for the widening of 1.1 miles of East Kentucky AVE.			
05/23 - 05/23	GREENWAY EXPANSION BREC BATON ROUGE, LA Lead Environmental Scientist. Conducted the wetlands and waterbodies delineation for a proposed nature trail along Wards Creek.			
04/10 - 06/11	NUMEROUS PIPELINE PROJECTS WHISKEY BAY GATHERING COMPANY, LLC DE SOTO & RED RIVER PARISHES, LA Lead Environmental Scientist. Conducted numerous T&E surveys (including for red-cockaded woodpeckers), wetland delineations, and permitting on Whiskey Bay's Haynesville Shale system expansion.			
02/10 - 8/10	NEWFIELD-HUXLEY PIPELINE PROJECT TENASKA POWER FUND II, L.P. SHELBY COUNTY, TX Lead Environmental Scientist. Conducted T&E surveys (including for red-cockaded woodpeckers), wetland delineations and permitting on a 6.7-mile-long gathering pipeline through a section of the Sabine National Forest.			
01/15 - 06/15	LONE STAR EXPRESS 24" & 30" NGL PIPELINES LONE STAR PIPELINE, LP COYANOSA, TX TO MONT BELVIEU, TX Lead Environmental Scientist. Conducted T&E surveys (including red-cockaded woodpeckers), wetland delineations, and permitting for a 532-mile-long natural gas liquids pipeline.			
01/06 - 05/06	DEEP CLARITY 20" & 24" PIPELINES ENBRIDGE PIPELINES CENTRAL EAST TEXAS Lead Environmental Scientist. Conducted T&E surveys (including for red-cockaded woodpeckers) and wetland and waterbodies delineations for a 60-mile-long natural gas pipeline.			
04/03 - 07/03	DOUBLE D 36" PIPELINE PROJECT ENBRIDGE PIPELINES MONTALBA, TX TO CARTHAGE, TX Lead Environmental Scientist. Conducted T&E surveys (including for red-cockaded woodpeckers) and wetland and waterbodies delineations for a 121-mile-long natural gas pipeline in northeast Texas.			


FIRM EMPLOYED BY		Lazenby & Associate,s Inc.		
NAME	Jerry Lazenby, PE, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	41	
TITLE	President	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	16	
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1965 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PLS No. 0002313 Louisiana 03/31/2024 PE No. 0012104 Louisiana 03/31/2024		
YEAR REGISTERED	1970 1970	DISCIPLINE	Professional Land Surveyor Professional Engineer (Civil and Environmental)	
Contract role(s) / brief description of responsibilities	Jerry has over 50 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. The first nine years of his career were spend with the U.S. Bureau of Public Roads/Federal Highway Administration at various locations in the United States as a Highway Engineer reviewing and assisting state highway officials with transportation projects utilizing Federal-Aid transportation funding from project inception through construction. Jerry has designed and supervised numerous projects for LADOTD over the past 45 years. Jerry will serve as TOPOGRAPHIC SURVEYOR - TASK LEAD for this contract. Jerry meets the Minimum Personnel Requirements (MPRs) #9. He has completed the 3-day LADOTD training course entitled the "National Environmental Policy Act (NEPA) and Transportation Decision Making" as well as the LA Specific Traffic Control Technician course and the LA Specific Traffic Control Supervisor course in January, 2014 and the Traffic Control Supervisor Refresher course in October, 2016 and July, 2020.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/23 - Present	IDIQ RETAINER CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES LADOTD Contract No. 4400019714 North Region, LA Principle-in-Charge. Supervised the performance of hydrographic surveys checking channel scour at major bridge sites in north Louisiana. Duties include supervision of project surveyors and QA/QC reviewing of the development of required hydrographic survey schedules and reports at the various bridge locations.			
10/20 - Ongoing	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD Contract No. 4400017710 Statewide, LA Principle-in-Charge responsible for this contract, which thus far has contained 1 Task Order to perform a topographic survey on S.P.N. H.015052.5: I-20 Widening & Improvements (Vancil to LA 34).			
10/19 - Ongoing	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD Contract No. 4400015236 Statewide, LA Principle-in-Charge responsible for 15 Task Orders to perform topographic surveys on various LADOTD projects in Louisiana.			
09/18 - 02/23	IDIQ RETAINER CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES LADOTD Contract No. 44-12668 North Region, LA Principle-in-Charge. Supervised the performance of hydrographic surveys on 17 Task Orders for checking channel scour at major bridge sites in north Louisiana. Duties included supervision of project surveyors, QA/QC of the development of required hydrographic survey schedules and reports at the various bridge locations.			
09/17 - Present	KANSAS LANE - GARRETT ROAD CONNECTOR AND I-20 IMPROVEMENTS LADOTD Nos. H.004774 & H.007300 Ouachita Parish, LA Principle-in-Charge On these projects, Lazenby & Associates performed topographic surveys, developed preliminary roadway plans, and is currently developing final roadway plans for the widening of a section of Garrett Road to a four-lane arterial route with five multi-lane roundabouts. The project includes ramp modifications of the I-20/Garrett Road interchange, a new overpass structure over I-20, and a new overpass structure over Millhaven Road (LA 594) and the adjacent KCS railroad tracks, as well as lighting and traffic signal work. The project also includes design and development of subsurface drainage plans to improve drainage within the project area. Final plans are currently 98% complete.			
01/17 - 01/20	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD Contract No. 4400009384 Statewide, LA Principle-in-Charge responsible for six Task Orders to perform topographic surveys on various LADOTD projects in Louisiana.			
10/14 - 06/17	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD Contract No. 4400004541 Statewide, LA Principle-in-Charge responsible for eight Task Orders to perform topographic surveys on various LADOTD projects in Louisiana.			
10/12 - 06/16	IDIQ HYDROGRAPHIC SURVEYING SERVICES FOR MONITORING OF EXISTING BRIDGES LADOTD Contract No. 4400002862 North Region, LA Principle-in-Charge. Supervised the performance of hydrographic surveys on 14 Task Orders for checking channel scour at major bridge sites in north Louisiana. Duties included supervision of project surveyors and the development of required hydrographic survey schedules and reports at the various bridge locations.			

FIRM EMPLOYED BY		Lazenby & Associate,s Inc.		
NAME	Paul Fryer, PE, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	37	
TITLE	Senior Vice-President	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	2	
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1984 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PLS No. 0004806 Louisiana 09/30/2025 PE No. 0023426 Louisiana 09/30/2025		
YEAR REGISTERED	1987 1997	DISCIPLINE	Professional Engineer (Civil and Environmental) Professional Land Surveyor	
Contract role(s) / brief description of responsibilities	Paul has over 20 years of experience in conducting topographic surveys, property surveys, and developing ROW maps on LADOTD projects. He has over 32 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. Paul is familiar with LADOTD and AASHTO design standards for roadway design and plans development. He has performed professional engineering and land surveying services on a variety of projects involving line and grade studies, major investment studies, location, and Stage "0" studies, as well as topographic surveys, property surveys, and development of ROW maps. Paul has extensive experience in developing preliminary and final roadway plans. He is familiar with the LADOTD Location and Survey Manual for conducting topographic surveys, hydrographic surveys, property surveys and developing right-of-way maps. He is also familiar with the hydraulic design requirements of LADOTD. Paul will serve as QA/QC SURVEYOR for this contract. He has completed the 3-day LADOTD training course entitled the "National Environmental Policy Act (NEPA) and Transportation Decision Making" as well as the LA Specific Traffic Control Technician course and the LA Specific Traffic Control Supervisor course in January, 2014 and the Traffic Control Supervisor Refresher course in October, 2016 and July, 2020.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/23 - Present	IDIQ CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES LADOTD Contract No. 4400019714 North Region, LA QA/QC Surveyor. Reviewing and checking the performance of hydrographic surveys checking channel scour at major bridge sites in north Louisiana. Duties include checking reports and performing quality control and quality assurance in the development of required hydrographic survey reports at the various bridge locations.			
09/18 - 02/23	CONTRACT NO. 4400012668, IDIQ RETAINER CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES, NORTH REGION, LA QA/QC Surveyor. Reviewed and checked the performance of hydrographic surveys on 17 Task Orders for checking channel scour at major bridge sites in north Louisiana. Duties included checking reports and performing quality control and quality assurance in the development of required hydrographic survey reports at the various bridge locations.			
10/12 - 06/16	IDIQ HYDROGRAPHIC SURVEYING SERVICES FOR MONITORING OF EXISTING BRIDGES LADOTD Contract No. 4400002862 North Region, LA QA/QC Surveyor. Participated in supervision of hydrographic surveys on 14 Task Orders for checking channel scour at major bridge sites in north Louisiana. Duties included checking reports and performing quality control and quality assurance in the development of required hydrographic survey reports at various bridge locations.			
11/11 - 01/15	CONTRACT NO. 4400001328: RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES - STATEWIDE, LA Project Surveyor. This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a three-year period.			
11/10 - 05/12	CONTRACT NO. 4400000685: RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES - STATEWIDE, LA Project Surveyor. This retainer contract authorized 23 task orders for topographic surveys, property surveys and ROW maps over a three-year period.			
05/08 - 05/12	S.P. NO. H.004780.5: KANSAS LANE CONNECTOR (ROUTE US 80 TO US 165), OUACHITA PARIS, LOUISIANA Project Manager. Responsible for topographic surveys and for property surveys and ROW maps on an Urban Systems project in Monroe, Louisiana.			
08/10 - 04/11	S.P. NO. 004783: ARKANSAS ROAD (WEST MONROE) (CALDWELL ROAD TO LA 143) ROUTE LA 616, OUACHITA, LA Project Surveyor. Responsible for conducting property surveys and developing ROW maps on a 3.2-mile urban arterial route			
03/08 - 04/11	CONTRACT NO. 4400000638: RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES - STATEWIDE, LOUISIANA Project Surveyor. This retainer contract authorized 15 task orders for topographic surveys, property surveys and ROW maps over a three-year period.			

FIRM EMPLOYED BY		Lazenby & Associates, Inc.		
NAME	Randy Hammons, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	22	
TITLE	Project Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	8	
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1993 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 0029504 Louisiana 09/30/2025		
YEAR REGISTERED	2001	DISCIPLINE	Professional Engineer (Civil)	
Contract role(s) / brief description of responsibilities	Randy has in excess of 26 years of experience in planning and designing highways and bridges on transportation projects in Louisiana, Arkansas, Mississippi, and Tennessee. He has approximately 16 years of experience supervising and processing topographic survey data, including establishing survey control, calculating existing alignments, creating digital terrain models (DTM's), and developing existing drainage maps for LADOTD projects. Randy will serve as PROJECT SURVEYOR for this contract. He is certified as a Louisiana Specific Traffic Control Technician and Louisiana Specific Traffic Control Supervisor.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/19 - Ongoing	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD State Contract No. 4400015236 Statewide, LA Project Engineer processing topographic survey field data and preparing survey deliverables for this retainer contract that contained sixteen task orders to perform topographic surveys for various projects at a cost of \$1,869,614 over a five-year time frame. Some of the task orders for Topographic Surveys were as follows: <ul style="list-style-type: none"> • H.012030 - US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. • H.012032.5 - LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021). Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. • H.013832.5 - LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021). Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. • H.008220.5 - LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021). Topographic survey of a proposed roundabout site located at the intersection of LA 406 and Keating Dr and F.E. Hebert Blvd using GPS receivers and robotic total stations. • H.014554.5 - LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021). Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. • H.012541.5 - LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022). Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. • H.014646.5 - I-20: US 165 - E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022). Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 7,130 LF (1.4 mi) of I-20 mainline. 			
01/17 - 01/20	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD State Contract No. 4400009384 Statewide, LA Project Engineer processing topographic survey field data and preparing survey deliverables for this retainer contract which contained six task orders to perform topographic surveys for various projects at a cost of \$989,478 over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows: <ul style="list-style-type: none"> • H.003370.5 - I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/2018 - 10/2018). Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, SX-10 terrestrial scanner, and mobile lidar. • H.007300.5 & H004774.5 - Kansas Lane - Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/2018 - 9/2018). Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. • H.012036.5 - US 80: Boeuf River Bridge in Richland Parish (03/2019 - 6/2019). Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner 			

FIRM EMPLOYED BY		Lazenby & Associates, Inc.		
NAME	Ronald Riggin II, PE, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	11	
TITLE	Project Surveyor	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	6	
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 2006 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PLS No. 0005119 Louisiana 03/31/2025 PE No. 0036016 Louisiana 03/31/2025		
YEAR REGISTERED	2014 2011	DISCIPLINE	Professional Land Surveyor Professional Engineer (Civil)	
Contract role(s) / brief description of responsibilities	Ronald is familiar with the requirements of the LADOTD Location and Survey Section for conducting topographic surveys, property surveys, and hydrographic surveys. He is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Ronald has over five years of experience conducting and performing hydrographic surveys in rivers, lakes, and bays. Ronald will serve as PROJECT SURVEYOR for this contract. He will be responsible for scheduling survey crews, conducting hydrographic surveys, and developing hydrographic survey submittals. He has successfully completed the LA Specific Traffic Control Technician course and the LA Specific Traffic Control Supervisor course in January, 2014, and the Traffic Control Supervisor Refresher course in October 2016 and July 2020.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/13 - 06/16	RETAINER CONTRACT FOR PROFESSIONAL SURVEYING SERVICES LADOTD Contract No. 440003471 Statewide, LA Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of \$436,473.00 for LADOTD State Projects at various locations in northern Louisiana.			
10/12 - 06/16	HYDROGRAPHIC SURVEY MONITORING OF EXISTING BRIDGES LADOTD Contract No. 440002862 North Region, LA Project Surveyor. Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.			
09/18 - 02/23	RETAINER CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES LADOTD Contract No. 4400012668 North Region, LA Project Surveyor. Performed hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties included supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LADOTD.			
02/23 - Ongoing	RETAINER CONTRACT FOR PROFESSIONAL HYDROGRAPHIC SURVEYING SERVICES LADOTD Contract No. 4400019714 North Region, LA Project Surveyor. Performing hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties include supervision and scheduling of field crews, analysis of field data and development of required hydrographic survey reports at the various bridge locations for submission to LADOTD.			
04/14 - 04/18	PRIVATE CLIENT - RESIDENTIAL AND COMMERCIAL DEVELOPMENTS IN OUACHITA PARISH AND NORTHERN LOUISIANA Professional Surveyor of Record. Developed topographic surveys and property surveys. Professional Engineer of Record for the overall design.			
03/15 - 08/17	S.P. # H.011742 - OLE HIGHWAY 15 IMPROVEMENTS (US 80 - ARKANSAS ROAD (LA 616)), OUACHITA PARISH Project Engineer and Project Surveyor. Performed a topographic survey of a 2.2-mile section of Old Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design which consisted of cold planning to remove existing AC surfacing, in-place cement stabilization of existing base course, A.S.T. interlayer, and asphaltic concrete overlay.			
05/16 - 02/18	STEEP BAYOU SEWER MAIN PROJECT OF THE WEST OUACHITA SEWERAGE DISTRICT NO. 5 Project Surveyor. Performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish. Also conducted a boundary survey of the ROW parcels along this route and developed the necessary ROW maps and legal descriptions.			

FIRM EMPLOYED BY		Lazenby & Associates, Inc.		
NAME	James Spillers, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	28	
TITLE	Chief Roadway Design Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	0	
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1994 Civil Engineering		
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 0028574 Louisiana 09/30/2025		
YEAR REGISTERED	1999	DISCIPLINE	Professional Engineer (Civil)	
Contract role(s) / brief description of responsibilities	James has 28 years of experience in planning and designing highways, streets and bridges and related components on LADOTD projects. He has also served as designer and Project Engineer on several federal-aid Urban System projects for the Ouachita Parish Police Jury and City of Monroe. He is familiar with the LDOTD Minimum Design Guidelines, LDOTD Roadway Design Procedures and Details Manual, and the LDOTD Hydraulics Manual, as well as the AASHTO "Green Book", AASHTO Roadside Design Guide, and the Manual on Uniform Traffic Control Devices. James will serve as ROADWAY DESIGN for this contract.			
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/22 - Ongoing	US 165 TURN LANES AT SCOTT DRIVE LADOTD Ouachita Parish, LA Project Engineer responsible for preparing roadway plans and contract documents for this project, which consists of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington, Louisiana. This project is being funded by the Ouachita Parish School Board, and will be constructed under a LDOTD Project Permit.			
08/21 - 11/21	NORTH FRONTAGE ROAD - PHASE 2 LADOTD Ouachita Parish, LA Project Engineer responsible for the development of roadway plans for a 0.6-mile frontage road north of Interstate 20 in Monroe. The owner on this project is the I-20 Economic Development District. James also served as the project engineer during construction, and was responsible for responding to contractor RFI's, processing pay estimates and change orders, and closing out the project after final inspection.			
02/18 - Ongoing	KANSAS LANE - GARRETT ROAD CONNECTOR AND I-20 IMPROVEMENTS LADOTD S.P. NO. H.007300 Ouachita Parish, LA Project Engineer prepared preliminary roadway plans and is nearly complete with final roadway plans for the widening of a section of Garrett Road to a four-lane urban arterial route with five multi-lane roundabouts. The project includes ramp modifications of the I-20/Garrett Road interchange, a new overpass structure over I-20, and a new overpass structure over Millhaven Road (LA 594) and the adjacent KCS railroad tracks, as well as lighting and traffic signal work. Project includes design and development of subsurface drainage plans to improve drainage within the project area. Final plans for this project are currently 98% complete.			
03/14 - 09/16	CHOUDRANT I-20 SERVICE ROAD LADOTD S.P. NO. H.004608 Lincoln Parish, LA Project Engineer performed a bridge hydraulic study and also performed design of a subsurface drainage system, and prepared preliminary and final roadway plans for a 1.1-mile two-lane service road on new alignment.			
02/11 - 05/07	BOSSIER NORTH-SOUTH CORRIDOR FROM ROUTE I-220/SWAN LAKE ROAD INTERCHANGE TO CROUCH ROAD LADOTD S.P. NO. H.003854 Bossier Parish, LA Project Engineer performed hydraulic studies for two bridge sites, and prepared preliminary and final roadway plans on this project. The project consisted of the reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway.			
12/07 - 05/16	ARKANSAS ROAD (LA 616) LADOTD S.P. NO. H.002622 Ouachita Parish, LA Project Engineer assisted with the hydraulic study of subsurface drainage systems and prepared preliminary and final roadway plans for widening a 3.2-mile urban segment of LA 616 to five lanes, including four multilane roundabouts. The project included one bridge site, where an existing timber bridge was replaced with a RCB.			
05/07 - 05/10	STEVE OGDEN ROAD BRIDGE OVER BAYOU MACON LADOTD S.P. NO. 713-33-0110 Madison Parish, LA Project Engineer performed a bridge hydraulic study and prepared preliminary and final roadway plans for a girder bridge on new alignment. This project was successfully constructed with no change orders.			

FIRM EMPLOYED BY		NTB Associates, Inc.	
NAME	Bryan Bunch, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	14.5
TITLE	Executive Vice President	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	15
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1988 Survey and Land Information Systems, University of Arkansas	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PLS No. 5014 Louisiana 03/31/2024	
YEAR REGISTERED	2009	DISCIPLINE	Professional Surveyor
Contract role(s) / brief description of responsibilities	Bryan will serve as NTB SURVEY PROJECT MANAGER for topographic surveys during this contract. He will manage survey crews, processing, drafting, and submittals. Bryan meets the Minimum Personnel Requirements (MPRs) #9.		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/23 - 09/23	JIMMIE DAVIS BRIDGE (LA 511) DESIGN-BUILD, BOSSIER & CADDO PARISHES, LA (H.001779) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys, property surveys, ROW mapping, QL A, B, C, and D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.		
08/21 - 09/23	LADOTD RURAL BRIDGE REPLACEMENT INITIATIVE PHASE II, DISTRICTS 05, 08, & 58 (4400019337) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, ROW mapping, and QL C and D subsurface utility services for 34 bridge and culvert replacements as a subconsultant to BKI.		
04/21 - 09/23	LADOTD RURAL BRIDGE REPLACEMENT INITIATIVE PHASE II, DISTRICTS 02, 03, 07, 61, & 62 (4400019338) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, ROW mapping, and QL C and D subsurface utility services for 21 bridge and culvert replacements as a subconsultant to Sigma.		
04/22 - 04/23	LADOTD MONKHOUSE TO I-49, CADDO PARISH, LA (4400017713) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C and D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.		
12/20 - 03/22	LADOTD LA 47 IWGO BRIDGE REHABILITATION, HISTORIC BRIDGE IMPROVEMENT (HBI), ORLEANS PARISH, LA (4400017713) Survey Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection and surveys in support of QL C and D subsurface utility services.		
03/21 - 03/22	CITY-PARISH WARD CREEK AT SIEGEN LANE, EAST BATON ROUGE PARISH, LA (22-DR-US-0013) Survey Project Manager managed field crews and technicians for control, topographic, and property surveys along with QL B, C, and D subsurface utility designating services for approximately 1,500 feet of Ward Creek.		
05/15 - 12/20	CITY OF BOSSIER, WALTER O. BIGBY CARRIAGEWAY (N. PKWY EXT.) BOSSIER PARISH, LA (CITY PROJECT. NO. 8-15) Quality Control Surveyor supervised south LA field crews and technicians for topographic, Static GPS Control, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating.		
12/17 - 07/20	LADOTD I-10: LA 415 TO ESSEN LANE ON I-10 AND I-12, WEST & EAST BATON ROUGE PARISHES, LA (H.004100.5) Survey Project Manager directing field crews, file processing, drafting, and submittals topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approx. 13 miles of roadway.		
06/18 - 10/18	LADOTD I-10: WILLIAMS BLVD. TO VETERANS BLVD., JEFFERSON PARISH, LA (H.003074.5 & H.009087.5) Survey Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL A, B, C, and D subsurface utility designating/locating.		

FIRM EMPLOYED BY		NTB Associates, Inc.	
NAME	Paul Rossini, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	36.5
TITLE	CEO/ Principal	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	7
DEGREE(S) / YEARS / SPECIALIZATION		High School Diploma 1980	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PLS No. 4731 Louisiana 09/30/2024	
YEAR REGISTERED	1994	DISCIPLINE	Professional Land Surveyor
Contract role(s) / brief description of responsibilities	Paul will serve as NTB CONTRACT ADMINISTRATOR/ PRINCIPAL-IN-CHARGE during this contract. He will sign all contracts and assist in staffing, logistics, and QA/QC for all LaDOTD services.		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/23 – 09/23	Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Principal-in-Charge of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for Static GPS Control, topographic surveys, property surveys, right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.		
05/15 – 09/23	City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Project. No. 8-15) Principal-in-Charge of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for Static GPS Control, topographic surveys, property surveys, hydrographic surveying services, QL A, B, C, and D subsurface utility designation/locating. Currently, in the construction management support phase and addressing RFI's as needed.		
08/21 – 09/23	LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Principal-in-Charge of contract administration, staffing, coordination, and QA/QC for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub-consultant to BKL.		
04/21 – 09/23	LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Principal-in-Charge of contract administration, staffing, logistics, and QA/QC for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub-consultant to Sigma.		
04/22 – 04/23	LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713) Principal-in-Charge of contract administration, staffing, coordination, and QA/QC for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.		
08/22 – 10/22	CenterPoint LA 1 Easement Staking & SUE Services, Caddo Parish, LA (CP 101783539) Principal-in-Charge of contract administration, staffing, coordination, and QA/QC for surveying services and QL B designating services for approximately 1.5 miles along LA 1 in Shreveport near the Red River Port from south of Doug Attaway Blvd. to Tones Bayou Road.		
12/17 – 07/20	LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5) Principal-in-Charge of contract administration, staffing, coordination, and QA/QC for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.		
07/16 – 03/17	LADOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) Principal-in-Charge of fee negotiations, scope of work, staffing, logistics, and QC/QA for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, surveys in support of QL B, C, and D subsurface utility designating, and drainage map preparation for roadway rehabilitation.		

FIRM EMPLOYED BY		NTB Associates, Inc.	
NAME	Grant Gilleon, PLS	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	15
TITLE	Vice President	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	20
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1987 Construction Engineering Technology	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PLS No. 4976 Louisiana 03/31/2024	
YEAR REGISTERED	2007	DISCIPLINE	Professional Land Surveyor
Contract role(s) / brief description of responsibilities	Grant will serve as NTBA QUALITY CONTROL SURVEYOR FOR TOPOGRAPHIC SURVEYS during this contract. He will assist in the management of field crews, processing, and drafting.		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/23 – 09/23	Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Quality Control Surveyor assisting in staffing and coordination for Static GPS control surveys, topographic surveys, property surveys, title takeoffs, legal description preparation, and right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River as a sub-consultant.		
08/22 – 09/23	CenterPoint Surveying Services, Various Parishes, LA (Agency Proj. Nos. Unknown) Project Manager directing field crews and technicians for property surveys and topographic surveys, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats.		
04/21 – 09/23	LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Quality Control Surveyor assisting in staffing and coordination for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub-consultant to Sigma.		
05/15 – 09/23	City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic, property, hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. Currently, in the construction management support phase and addressing RFI's as needed.		
04/22 – 04/23	LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713) Quality Control Surveyor reviewing data and deliverables for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.		
08/22 – 10/22	CenterPoint LA 1 Easement Staking & SUE Services, Caddo Parish, LA (CP 101783539) Project Manager directed field crews, file processing, drafting, and submittals for surveying services and surveys in support of QL B designating services for approximately 1.5 miles along LA 1 in Shreveport near the Red River Port from south of Doug Attaway Blvd. to Tones Bayou Road.		
12/20 – 03/22	LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) Quality Control Surveyor assisted in the management of field crews and technicians for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, Static GPS Control, hydrographic surveys, and QL C & D subsurface utility services for bridge repair/rehabilitation.		
12/17 – 07/20	LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (H.004100.5) Assistant Project Manager assisted in staffing and coordination for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating.		
11/15 – 05/17	Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03) Project Manager directed field crews, file processing, drafting, and submittals for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).		

FIRM EMPLOYED BY		NTB Associates, Inc.	
NAME	Amy Schulze, PE, CFM	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	5
TITLE	Project Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	20
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1998 Civil Engineering, Ohio Northern University CFM National Certification: US-16-08839 Electro-Magnetic Locating Instruments Certified Certificate of Locating Competency #WA2028 (Staking University)	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 30295 Louisiana 03/31/2025	
YEAR REGISTERED	2002	DISCIPLINE	Professional Engineer
Contract role(s) / brief description of responsibilities	Amy will serve as NTB PROJECT ENGINEER FOR SUE SERVICES during this contract. She will supervise and manage all subsurface utility engineering services.		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/23 - 09/23	Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) SUE Project Manager for QL A, B, C, and D subsurface utility designating/locating and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.		
01/19 - 09/23	LADOTD IDIQ Contract for SUE Services - Task Orders No. 1 - 4, East Baton Rouge, LA (4400014660) SUE Project Manager for QL B subsurface utility designating for several additional areas around the I-10 corridor in conjunction with the on-going design-build contract.		
08/21 - 09/23	LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) SUE Project Manager for QL C and D subsurface utility services for 34 bridge and culvert replacements as a subconsultant to BKL.		
04/21 - 09/23	LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) SUE Project Manager for QL C and D subsurface utility services for 21 bridge and culvert replacements as a subconsultant to Sigma.		
04/22 - 04/23	LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713) SUE Project Manager for QL C and D subsurface utility services for interstate rehabilitation.		
08/22 - 10/22	CenterPoint LA 1 Easement Staking & SUE Services, Caddo Parish, LA (CP 101783539) SUE Project Manager for QL B designating services for approximately 1.5 miles along LA 1 near the Red River Port for CenterPoint facilities as well as all other utilities within 15 feet of the CenterPoint facilities or crossing their facilities to assist with the design of a new gas line within their existing servitude.		
03/22 - 03/22	City of Baton Rouge/East Baton Rouge Parish, MOVEBR Bluebonnet Blvd. (Perkins - Picardy) East Baton Rouge Parish, LA (19-CP-HC-0034) SUE Project Manager for QL A, B, C, and D utility designating/locating throughout the approximately 1.5 miles of the project corridor.		
03/21 - 03/22	City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013) SUE Project Manager for QL B, C, and D subsurface utility designating for approximately 1,500 feet of Ward Creek.		
04/18 - 12/20	City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) SUE Project Manager for QL A, B, C, and D subsurface utility designating/locating in support of surveys and ROW mapping.		
04/18 - 07/20	LADOTD I-10: LA 415 to Essen Lane, West & East Baton Rouge Parishes, LA (H.004100.5) SUE Project Manager for QL B, C, and D subsurface utility designating and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.		
12/18 - 01/20	LADOTD LA 951: Roadway Washout Repairs, East Feliciana Parish, LA (H.013643) SUE Project Manager for QL A, B, C, and D subsurface utility designating/locating and surveys in support of QL A, B, C, and D subsurface utility designating/locating for approximately 2,600 feet of roadway.		

FIRM EMPLOYED BY		EJES, Inc.	
NAME	Edwin Jones, Sr., PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	26
TITLE	Principal-in-Charge	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	6
DEGREE(S) / YEARS / SPECIALIZATION		BS 1990 Civil Engineering; MBA 2000 Operations Management	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 0027489 Louisiana 03/31/2024	
YEAR REGISTERED	1997	DISCIPLINE	Professional Engineer (Civil)
Contract role(s) / brief description of responsibilities	Edwin is responsible for coordinating operations, project reviews, and staff resources in the EJES Jackson, Dallas, Houston, and Louisiana offices. In addition to 26 years of managing operations at EJES, his experience also includes seven years of engineering experience with the TXDOT. Edwin has been successful in managing projects for site development, roadway design, water/wastewater design, transportation planning, hydraulics/drainage design, bridge layouts, environmental services, aviation design, and various projects. He is experienced with engineering analysis and design software including GeoPak, Eagle Point, WINSTORM, THYSIS, HEC RAS, MicroStation, and AutoCAD. Edwin will perform ROADWAY/DRAINAGE DESIGN for this contract. Edwin meets the Minimum Personnel Requirements (MPRs) #6.		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/09 - 11/10	DESOTO PARISH ROAD REHAB DESOTO PARISH, LA Principal-in-Charge for developing a roadway rehabilitation plan to improve substandard paving at various locations throughout the Parish network. EJES reviewed the highest need locations for possible construction solutions and analyzed the cost/benefit for multiple construction options. Cost-savings measures became more critical, as the construction budget was reduced. EJES analyzed and implemented several cost-savings measures, such as investigation and analysis of existing crossdrain structures for salvage instead of replacement. Another proposed concept was to vary the typical section thickness and width depending on the horizontal and vertical curvature of the road. These innovative measures allowed the Parish to reconstruct the desired roadways within the allotted budget. The Parish had a scheduling constraint requiring the projects to be designed and advertised for bids within 60 days. EJES managed the process by utilizing three survey crews and geotechnical services concurrently while designing the project. Using this aggressive, expedited approach, EJES was able to develop plans and specifications that met construction requirements while meeting the client's scheduling needs.		
06/14 - 02/15	I-20 AND GARRETT ROAD DRAINAGE MONROE, LA Principal-in-Charge for providing subsurface design and hydraulic analysis for a frontage road along I-20 at Garrett Road in Monroe. The 2-lane asphalt frontage road was approx. 4,000 ft. in length and included concrete curb and gutter. Drainage design was performed according to LADOTD standards and the hydraulic analysis was performed utilizing the LADOTD hydraulic software programs.		
02/14 - 04/16	FM 2201 WIDENING (FROM FM 4 TO US 281) PALO PINTO, TX Principal-in-Charge for design services widening approx. 7.2 miles of FM 2201 to provide additional paved surface width. Responsible for managing development of complete plans, specifications and estimates. Work details included typical sections, plan and profiles, drainage, driveways, SW3P, and traffic control.		
12/17 - 03/19	US 175, SM WRIGHT PARKWAY RECONSTRUCTION PHASE 2 DALLAS, TX Principal-in-Charge for providing the preparation of plans, specifications and estimates (PS&E) for the SM Wright, a project which includes freeway to frontage road and cross street roadway ramps linking IH 45 and Martin Luther King Jr. Boulevard and Al Lipscomb Way; and converting US 175 freeway to a low-speed arterial roadway. Services include preparing roadway and bridge design, hydrologic and hydraulic design, traffic signal design, survey, and geotechnical data collection, subsurface utility engineering (SUE) to support the design process.		
10/18 - 01/21	PEARL EXPRESSWAY IMPROVEMENTS (JACKSON STREET TO LIVE OAK STREET), CITY OF DALLAS DEPARTMENT OF PUBLIC WORKS DALLAS, TX Principal-in-Charge for engineering services for paving and drainage design, utility coordination, and project management for the street reconstruction of Pearl Street (from Commerce Street to Live Oak Street). Developing design plans to convert from 1-way to 2-way traffic. Project includes design of thoroughfare with turn lanes that will comprise of 10" thick 4000 PSI reinforced concrete roadway, reinforced concrete sidewalks, curbs and gutters, storm drainage, signals, enhanced streetscaping, lighting, signing and pavement markings. Also, responsible for providing signal design and plans.		



03/19 - 01/21	<p>PEMBERTON HILL ROAD FROM SOUTH GREAT TRINITY FOREST WAY TO LAKE JUNE ROAD DALLAS, TX Principal-in-Charge for engineering services for complete street design that involves a conversion of an approximately 7,500 LF of a 2-lane, 2-way roadway with side ditches to a 2-lane, 2-way roadway with 8' wide on-street parking on east side, curbs, sidewalks and landscape features. Works include concrete paving, drainage, water/wastewater, pedestrian facility, and landscape. Design includes lowering existing roadway profile to eliminate ditches while ensuring it would not be under flood since a portion of the roadway at Elam Creek is within a flood plain. Also responsible for preparation of hydrologic/hydraulic modeling/assessment at the culvert crossing of Elam Creek, with the design of recommended additions to the existing multiple box culvert crossing and associated headwalls. We will prepare stormwater improvements as per the City of Dallas Drainage Manual for all projects.</p>
03/08 - 03/09	<p>OLD KEMP HIGHWAY KAUFMAN, TX Principal-in-Charge for the design of a new 1.1-mile ultimate 6-lane divided roadway on the south side of Kaufman. The project included determination of final road alignment, modification of the street section to accommodate a portion of existing pavement adjacent to the Wal-Mart and coordination with TXDOT for connection to SH 34 Bypass and Kaufman ISD for bus access. The roadway is utilizing Low Impact Development (LID) drainage improvements with the use of bioswales and biogardens within the medians. The detailed design included 4 interior lanes with provisions for the future outside lanes. Associated storm sewer, culverts, water lines, wastewater lines, traffic control, traffic sequencing, pedestrian lighting and landscaping improvements are included.</p>
08/14 - 07/15	<p>SOUTH KENNER ROAD JEFFERSON PARISH, LA Principal-in-Charge for design service for the rehabilitation of a subsurface drainage and sidewalk improvement project. The existing roadway is approximately 22' wide and has steep ditches immediately adjacent to the pavement which creates an unsafe condition. The new section will be 26' wide 2-11' lanes, with 2' shoulders; surface drainage and 4' sidewalks on both sides. Drainage system will include local swales to collect the stormwater runoff into drop inlets, generally spaced at 200.</p>
07/20 - 07/21	<p>NORTHBOUND MANHATTAN BLVD. WIDENING (GRETNA BLVD TO 9TH STREET) JEFFERSON PARISH, LA Principal-in-Charge for design services for the road improvement project for Jefferson Parish included the development of construction plans, specifications, and cost estimate for the widening of Manhattan Blvd North Bound. The roadway improvements consisted of removing and replacing of full depth or 2-in cold milling and overlay of Asphalt Pavement, removing and replacing of Concrete Pavement, Curbs & Gutters, Sidewalks, Driveways, ADA Complaint handicap Ramps, Edge markings, Pedestrian striping, Drainage inlets, and Drainage Line Replacement.</p>
02/10 - 06/11	<p>BLOUNT ROAD RELOCATION AND DITCH DRAINAGE IMPROVEMENT BATON ROUGE, LA Principal-in-Charge. This project consisted of design services and construction documents for the Relocation of the Blount Road, located in Baton Rouge Louisiana and improvements to existing earthen ditch on airport property. Responsibilities include the design for improvements to approximately 3,400 LF of 2-lane divided roadway and ditch drainage improvements. Other responsibilities include preparation of Preliminary, Final and Construction documents, drainage analysis, design of three culverts and design of an open ditch drainage system.</p>
07/08 - 10/11	<p>LA REUNION PARKWAY PAVING & WATER LINE IMPROVEMENTS DALLAS, TX Principal-in-Charge for design services for the complete reconstruction of La Reunion Parkway. Project included the relocation of approximately 1700 LF of existing 16-inch water line in addition to replacement of commercial water service connections, fire prevention lines, meter vaults and appurtenances. The project required a unified effort of several different City departments, local businesses, on-site industrial park property management personnel, local law enforcement (compliance with traffic control devices and warning signs) utility providers, state, and federal agencies.</p>

FIRM EMPLOYED BY		EJES, Inc.	
NAME	Tanita Gilbert-Baker, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	14
TITLE	Project Manager/Senior Civil Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	13
DEGREE(S) / YEARS / SPECIALIZATION		BS 1994 Civil Engineering; MBA 2007 Business Administration	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 29350 Louisiana 03/31/2023	
YEAR REGISTERED	2001	DISCIPLINE	Professional Engineer (Civil)
Contract role(s) / brief description of responsibilities	<p>Tanita has designed/managed 50+ miles of roadway/highway improvements with various cross sectional elements, including rural two-lane asphalt roads with roadside ditches; urban five-lane concrete arterials streets with center turn lane/median, signalized intersections, subsurface drainage, and ADA compliant sidewalks; historic two-lane brick streets with parking; four-lane interstate highways with underpasses, overpasses, and interchanges; and six-lane interstates requiring complete construction signing and sequencing. She has managed 20+ off-system, on-system, and highway bridge projects including precast, box culvert, slab span and concrete-girder designs, has utilized state and federal software to analyze and oversee the analysis of stream crossings, inlet spacing, and subsurface drainage systems and has participated in multiple highway planning and environmental studies, developing horizontal and vertical alignments within corridors with very restrictive right-of-way or sensitive topographical features requiring close coordination with state/federal highway officials as well as residents of the impacted community. Tanita will perform ROADWAY/DRAINAGE DESIGN for this contract. Tanita meets the Minimum Personnel Requirements (MPRs) #6.</p>		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
03/09 - 06/10	<p>I-49 INNER CITY CONNECTOR LADOTD CADDO PARISH, LA Project Manager/Engineer services for preparation of comprehensive Stage 0 and Environmental Study for the 3.8 mile I-49 Inner City Connector corridor through Shreveport. Project identified alternative routes to connect the existing I-49/I-20 interchange to the proposed I-49/I-220 interchange. Responsibilities included development of the design criteria, typical sections, analysis of horizontal and vertical alignment alternative, ROW requirements, and opinion of probable costs in accordance with all LADOTD/AASHTO Manuals, and participation in public meetings.</p>		
01/01 - 02/10	<p>I-49 NORTH (LA 1 - LA 173) CADDO PARISH, LA Project Manager/Engineer for an extension of I-49 North. Project extended 5.5 miles beginning at Junction LA 1 and ending at Junction LA 173 north of Shreveport. Responsibilities included project management, hydraulic analysis of Twelve Mile Bayou, Doe Slough Canal, and levee crossings, design of horizontal and vertical alignments for I-49 and crossing roadways, and roadway ramp design at I-49/LA 1 and I-49/LA 173. Initial project scope included only preliminary design, which was completed in 2003. Preparation of final design began in 2009 and was completed in 2010.</p>		
01/01 - 12/04	<p>LA 3132, INNER LOOP EXTENSION (INDUSTRIAL LOOP - LA 523) SHREVEPORT, LA Project Manager/Engineer for Project that extended 1.44 miles in a southeast direction beginning west of the intersection of LA 3132 and the Industrial Loop LA 526 and ending at the proposed intersection with LA 523 (Fournoy-Lucas Rd). Project included design of bridge over Bert Kouns Industrial Loop. Services included preparation of NEPA EA, preliminary/final roadway, bridge plans and right-of-way maps. Project required coordination with the realignment and widening project for LA 523 that was designed by others. Responsible for drainage design and geometric design of roadway, ramps and access roads. Designed tie-ins to the existing Inner Loop as well as ramp ties to LA 523. Responsible for coordination of the bridge layout and profile based on previous EA studies.</p>		
01/06 - 07/12	<p>BELLEVUE ROAD BOSSIER PARISH, LA Project Manager/Engineer provided development of construction plans and specifications for improvements to Bellevue Rd. Proposed improvements consisted of widening 2.5 miles of existing 2-lane asphalt roadway with roadside ditches to three lane asphalt roadway (two travel lanes, with center turn lane). 1.75 miles was designed with curb and gutter and subsurface drainage to minimize right-of-way requirements. The remaining 0.75 miles was designed with roadside ditches. Hydraulic analysis of existing, proposed, and off-site drainage, coordination of the railroad crossing, and realignment of side roads for improved sight distance were required. Project required preparation of clearing/grubbing plans and specifications for clearing of the existing and required ROW. Services also included construction administration.</p>		
01/03 - 09/14	<p>HAMILTON ROAD BOSSIER PARISH, LA Project Manager/Engineer for local urban systems project to provide a complete EA in accordance with NEPA and Roadway Design for the widening of the existing two-lane road to four lanes with 10 ft. median, subsurface drainage, and sidewalks. Required widening the existing underpass of KCS Railroad and design an overpass of the Union Pacific Railroad. Responsible for roadway horizontal/vertical design and coordination between City of Bossier City/LADOTD/KCS Railroad/Union Pacific Railroad companies.</p>		




FIRM EMPLOYED BY		EJES, Inc.	
NAME	Bryan K. Joseph, EI	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	2
TITLE	Civil Designer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	19
DEGREE(S) / YEARS / SPECIALIZATION		BS 2001 Mechanical Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		EI No. 0020836 LA 06/30/2023	
YEAR REGISTERED	2003	DISCIPLINE	Civil Designer/Project Manager
Contract role(s) / brief description of responsibilities	Bryan has over 20 years of professional engineering experience. He possesses hands-on experience dealing with project management, developing and adhering to project schedule (critical path), and meeting or exceeding promised/projected client expectations. He has managed projects ranging from a \$50,000 preliminary evaluation project to a multi-million-dollar design/built job. Bryan's responsibilities include providing project management and supervision of both design and construction projects, performing quality assurance/quality control reviews, design subsurface drainage systems, and preparing roadway and drainage plans for inclusion in surface transportation system construction projects. Bryan will perform ROADWAY/DRAINAGE DESIGN for this contract.		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/23 - Ongoing	PLANK ROAD PHASE 2, BATON ROUGE, LOUISIANA Civil Designer. Providing design for new roadway alignment for airport runway extension and rerouting to Harding Blvd that includes elevated roadway, overpasses, intersection, traffic signalization and ROW acquisition.		
06/21 - 12/21	AVE D DRAINAGE IMPROVEMENTS (ALLO STREET: BETWEEN 6TH ST. AND 4TH ST.), JEFFERSON PARISH, LOUISIANA Construction Admin/PM. SWFCP Drainage Improvement Phase 8, Marrero, LA Construction/Administration services for last task/project. Complete utility replacements and full depth roadway resurfacing. In addition, involved installation of 48" equivalent diameter RCPA.		
06/20 - 12/20	AVE D DRAINAGE IMPROVEMENTS (AVE. C: BETWEEN 6TH ST. AND 4TH ST.), JEFFERSON PARISH, LOUISIANA Construction Admin/PM. SWFCP Drainage Improvement Phase 8, Marrero, LA Construction/Administration services for last task/project. Complete utility replacements and full depth roadway resurfacing. In addition, involved installation of 48" equivalent diameter RCPA.		
02/17-08/17	AVE D DRAINAGE IMPROVEMENTS (AVE C, AVE A, GAUDET: BETWEEN 6TH ST. AND 8TH ST.), JEFFERSON PARISH, LOUISIANA Construction Admin/PM. SWFCP Drainage Improvement Phase 6, Marrero, LA Construction/Administration services for last task/project. Combined Project budget was over \$1.5M and involved complete utility replacements and full depth roadway resurfacing. In addition, involved installation of 64" to 72" equivalent diameter RCPA. Continuation of work accomplished previous summer, due to proximity with a school.		
01/11 - 07/11	STATEWIDE FLOOD CONTROL PROGRAM (SWFCP) UNIVERSITY CITY & AUDUBON PLACE DRAINAGE IMPROVEMENT, KENNER, LOUISIANA Hydraulic Modeler/Construction Admin/PM. SWFCP University City Drainage Improvement, Kenner, LA Construction/Administration services for last task/project. Involved Hydraulic modeling utilizing HYDROWIN stormwater drainage modeling software to aid in grant application completion and BCA determination.		

FIRM EMPLOYED BY		GeoEngineers, Inc.	
NAME	James Aronstein, Jr., PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	53
TITLE	Principal Geotechnical Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	5
DEGREE(S) / YEARS / SPECIALIZATION		B.S. 1965 Civil Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. 11794 LA 3/31/25; PLS No. 458 LA 3/31/2025	
YEAR REGISTERED	1969	DISCIPLINE	Professional Engineer (Civil and Environmental)
Contract role(s) / brief description of responsibilities	<p>James "Jim" has provided geotechnical services on private, industrial, and public facilities since 1969, with extensive, significant expertise in the transportation industry. He has been the engineer of record for the majority of GeoEngineers' Louisiana road and bridge projects over the past 30 years, including LADOTD statewide retainer contracts for geotechnical investigations and project-specific programs. His projects include the I-210 at Cove Lane Interchange; I-49/US90 Widening over LA182 and BNSF Railroad Design-Build; 37-mile extension of I-49 North through LA, I-220 to the Arkansas state line; Rigolets Pass Bridge project on US 90; numerous off-system bridge sites for LADOTD through local consultants; and work on the East Baton Rouge Parish Green Light roads and streets improvements plan. Jim's role has involved managing and executing engineering analyses and reports, field exploration, site access, drilling technology evaluation, exploration conduct, laboratory test assignments, and quality control of the generated work product. Jim will serve as a LEAD GEOTECHNICAL ENGINEER for this contract. Jim meets the Minimum Personnel Requirements (MPRs) #7.</p>		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/19 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN BUILD LADOTD S.P. H.011670 KENNER, LA Principal-in-Charge. GeoEngineers is completing the geotechnical exploration, testing, and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Jim is serving as Principal-in-Charge.</p>		
07/18 - Ongoing	<p>P3 BELLE CHASSE BRIDGE AND TUNNEL REPLACEMENT PLAQUEMINES PARISH, LA Principal-in-Charge. GeoEngineers is providing geotechnical design and construction services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. This unique project involves replacing the southbound tunnel and northbound elevating bridge with one replacement bridge over the Gulf Intracoastal Waterway (GIWW).</p>		
05/18 - 12-22	<p>I-20/I-220 (BARKSDALE AFB) DESIGN BUILD, OV/QA LADOTD S.P. H.003370 BOSSIER PARISH, LA Principal-in-Charge. GeoEngineers is providing OV/QA in this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.</p>		
08/17 - 11/20	<p>I-10 WIDENING (HIGHLAND TO LA-73) DESIGN BUILD, OV/QA S.P. H.009250 BATON ROUGE, LA Principal-in-Charge. GeoEngineers' is providing OV/QA in this highly-anticipated I-10 project that involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.</p>		
04/15 - 11/17	<p>US-90/LA-318 INTERCHANGE DESIGN BUILD S.P. H.004932 ST. MARY PARISH, LA Principal-in-Charge. GeoEngineers performed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.</p>		
02/13 - 04/13	<p>I-49/US90 WIDENING OVER LA182 AND BNSF RAILROAD LADOTD S.P. H.010620 LAFAYETTE, LA Principal-in-Charge. A Louisiana DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Jim was the principal-in-charge in conducting bridge and roadway borings, and laboratory tests in support of design of this bridge and roadway widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.</p>		



08/12 - 04/15	<p>I-210 AT COVE LANE INTERCHANGE LADOTD S.P. H.010151 LAKE CHARLES, LA Principal-in-Charge. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about 8,000 driven pile foundations, MSE walls, and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided PDA evaluation of the piles during installation, and installed liquid settlement sensors to monitor embankment settlement.</p>
09/09 - 07/11	<p>US90 AT LA85 INTERCHANGE DESIGN BUILD LADOTD S.P. 424-04-0032 IBERIA PARISH, LA Principal-in-Charge. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent downdrag loads on the proposed adjacent bridge foundations.</p>
04/07 - 04/09	<p>I-49 NORTH LADOTD S.P. 700-09-0165 CADD0 PARISH, LA Principal-in-Charge. LADOTD Priority 1 Mega Project where Jim led the GeoEngineers' team in conducting bridge and roadway borings and laboratory tests before bridges are constructed and pavement is laid on the 36-mile northward extension in Louisiana. GeoEngineers completed 166 borings for the project. At some sites, the team had to overcome the challenge of drilling exploratory borings at the same time LA DOTD cleared the area for construction, disturbing the site where samples are taken.</p>

FIRM EMPLOYED BY		GeoEngineers, Inc.	
NAME	Larry Sant, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	22
TITLE	Associate Geotechnical Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	2
DEGREE(S) / YEARS / SPECIALIZATION		M.S. 2001 Civil Engineering; B.S. 2001 Civil Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. Civil #35625 LA 9/30/2024	
YEAR REGISTERED	2010	DISCIPLINE	Professional Engineer (Civil)
Contract role(s) / brief description of responsibilities	<p>Larry is a senior geotechnical engineer with two decades of experience managing geotechnical engineering projects. His experience includes project planning and technical direction during exploration, laboratory testing, engineering design analyses, report preparation and construction monitoring. Larry has been involved in hundreds of projects including roadways ranging from highways to private access drives, airports, bridges, dams, university and K-12 schools, wastewater treatment plants, drainage facilities, utility projects, and other structures ranging from private residences to large public and private facilities. Larry will serve as a GEOTECHNICAL ENGINEER for this contract. Larry meets the Minimum Personnel Requirements (MPRs) #7.</p>		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/19 - Ongoing	I-10/LOYOLA INTERCHANGE DESIGN BUILD LADOTD S.P. H.011670 KENNER, LA Project Manager. GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity.		
07/18 - Ongoing	P3 BELLE CHASSE BRIDGE AND TUNNEL REPLACEMENT PLAQUEMINES PARISH, LA Project Manager. GeoEngineers is providing geotechnical design and construction services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. This unique project involves replacing the southbound tunnel and northbound elevating bridge with one replacement bridge over the Gulf Intracoastal Waterway (GIWW).		
05/18 - 12/22	I-20/I-220 (BARKSDALE AFB) DESIGN BUILD, OV/QA LADOTD S.P. H.003370 BOSSIER PARISH, LA Project Manager. GeoEngineers is providing OV/QA in this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.		
08/17 - 11/20	I-10 WIDENING (HIGHLAND TO LA-73) DESIGN BUILD, OV/QA S.P. H.009250 BATON ROUGE, LA Project Manager. GeoEngineers' is providing OV/QA in this highly-anticipated I-10 project that involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.		
04/15 - 11/17	US-90/LA-318 INTERCHANGE DESIGN BUILD S.P. H.004932 ST. MARY PARISH, LA Project Manager. GeoEngineers performed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.		
02/13 - 04/13	I-49/US90 WIDENING OVER LA182 AND BNSF RAILROAD LADOTD S.P. H.010620 LAFAYETTE, LA Project Manager. A LADOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Larry was the project manager in conducting bridge and roadway borings, and laboratory tests in support of design of this design build widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.		
08/12 - 07/15	I-210 AT COVE LANE INTERCHANGE LADOTD S.P. H.010151 LAKE CHARLES, LA Project Manager. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about 8,000 driven pile foundations including modeling driving in the wave equation analyses (WEAP), MSE walls, and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided PDA/CAPWAP evaluation of the piles during installation, and installed liquid settlement sensors to monitor embankment settlement.		

01/10 - 12/11	<p>I-12 WIDENING (AMITE RIVER TO JUBAN ROAD) DESIGN BUILD LADOTD S.P. 454-02-0071 DENHAM SPRINGS, LA Project Manager. GeoEngineers completed engineering analyses and provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications which included PDA/CAPWAP monitoring.</p>
09/09 - 07/11	<p>US90 AT LA85 INTERCHANGE DESIGN BUILD LADOTD S.P. 424-04-0032 IBERIA PARISH, LA Project Manager. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent down drag loads on the proposed adjacent bridge foundations.</p>

FIRM EMPLOYED BY		GeoEngineers, Inc.	
NAME	David Sauls, PE	YEARS OF EXPERIENCE WITH THIS FIRM/EMPLOYER	29
TITLE	Senior Principal Geotechnical Engineer	YEARS OF EXPERIENCE WITH OTHER FIRM(S)/EMPLOYER(S)	10
DEGREE(S) / YEARS / SPECIALIZATION		MS 1984 Civil Engineering; BS 1982 Civil Engineering	
ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE		PE No. Civil #23270 LA 03/31/2025	
YEAR REGISTERED	1989	DISCIPLINE	Professional Engineer (Civil)
Contract role(s) / brief description of responsibilities	<p>David has 30+ years of experience providing services on transportation-related projects and extensive experience working with the LADOTD. He has been the engineer of record in the production of many LADOTD profile and laboratory data programs. David's role in these projects required project supervision and quality control in the generation of the field data as well as laboratory testing assignments and techniques. He is aware of the budget and schedule requirements for LADOTD-related activities and has met such conditions in the past. David currently serves as frequent guest speaker to the LSU civil engineering department and previously was an adjunct professor for the instruction of Civil Engineering 4300 Foundation Design. He is an active member with numerous technical and professional societies, both locally and statewide. He is an author and co-author of seven technical papers regarding the soil behavior and deformation characteristics of numerous geotechnical foundation studies. David will serve as GEOTECHNICAL DESIGN QUALITY ASSURANCE/QUALITY CONTROL for this contract. David meets the Minimum Personnel Requirements (MPRs) #7.</p>		
Experience dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "Designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/19 - Ongoing	<p>I-10/LOYOLA INTERCHANGE DESIGN BUILD LADOTD S.P. H.011670 KENNER, LA Geotechnical QA/QC. GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity.</p>		
07/18 - Ongoing	<p>P3 BELLE CHASSE BRIDGE AND TUNNEL REPLACEMENT PLAQUEMINES PARISH, LA Geotechnical QA/QC. GeoEngineers is providing geotechnical design and construction services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. This unique project involves replacing the southbound tunnel and northbound elevating bridge with one replacement bridge over the Gulf Intracoastal Waterway (GIWW).</p>		
06/18 - 07/19	<p>PLANK ROAD RELOCATION; CITY-PARISH OF EAST BATON ROUGE, BATON ROUGE, LA Geotechnical QA/QC. Performed geotechnical exploration and laboratory testing for the City of Baton Rouge. New runways at the Baton Rouge Metropolitan Airport necessitated the relocation of Plank Road. David provided bridge and piling design as well as pavement design recommendations based on geotechnical investigation results.</p>		
09/12 - 04/15	<p>I-210 AT COVE LANE INTERCHANGE LADOTD S.P. H.010151 LAKE CHARLES, LA Geotechnical QA/QC. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about 8,000 driven pile foundations, MSE walls, and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. GeoEngineers' team monitored MSE wall construction, provided PDA evaluation of the piles during installation, and installed liquid settlement sensors to monitor embankment settlement.</p>		
04/15 - 11/17	<p>US-90/LA-318 INTERCHANGE DESIGN BUILD LADOTD S.P. H.004932 ST. MARY PARISH, LA Geotechnical QA/QC. GeoEngineers performed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. Conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). Conducted PDA/CAPWAP testing to keep the schedule progressing, during construction.</p>		
09/09 - 07/11	<p>I-49/US90, LA85 OVERPASS LADOTD S.P. 424-04-0032 IBERIA PARISH, LA Managing Principal. Geotechnical engineering design support for the approximately \$25 million, 1,900-ft interstate level overpass of two, two-lane bridges. This design includes wick drains and surcharge to accelerate the settlement of the 14-foot earthen approach embankment. We provided pile design for precast concrete piles to support the bridge bent foundation.</p>		



17. **Firm Experience:**

FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Road, Bridge, Traffic, ITS, Other (lighting)
PROJECT NAME	NELSON ROAD EXTENSION AND BRIDGE		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.005967 (700-10-0153)	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Lake Charles, Louisiana		OWNER'S PROJECT MANAGER	Christina Brignac
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access, Baton Rouge, LA 70808 225-079.2516 christina.brignac@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	11/10	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$2,902.1	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	Ongoing	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$2,379.3	

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

The City of Lake Charles, LADOTD, FHWA, and the Port of Lake Charles were the key stakeholders in completing this crucial roadway network link to the Port of Lake Charles City Docks facilities and downtown Lake Charles area. Safety and multi-modal improvements were key to the success of this project.

To deliver a project that has been planned for well over 40 years, Stantec led the design efforts to construct a new, high-level, fixed-span bridge over Contraband Bayou with access to the Port of Lake Charles and points east of the project. **Stantec** (under the supervision of FHWA and DOTD) **initially led the Stage 0 process, and eventually led the Environmental Assessment process** for this project to obtain a FONSI decision, in which an alternative analysis for potential roadway connections to the Port of Lake Charles and W. Sallier Street were driven by traffic analysis and an assessment of impacts on the area.

Stantec developed several other items for the EA document including a line and grade study, traffic and safety analysis, profile grade investigation, access management assessment, vessel survey, complete streets alternatives, as well as **assisted with developing supporting exhibits and completing applications for USACE and USCG permitting with other project team members**. Stantec also managed the delivery of the EA document for approval, including leading the required public meeting and hearing during the NEPA process. After receipt of the FONSI, Stantec entered into Stage 3 Preliminary and Final Design Services. **Stantec completed the preliminary and final plans phase of the project** and is currently in the construction phase.

The project is a multi-disciplinary effort including **roadway design**, subsurface drainage design, **open ditch design**, **bridge design over a navigable waterway**, **traffic signal design**, roadway lighting design, navigation lighting design, and **railroad design** (at-grade crossing and electrical equipment).

The **topographic survey** for this project was provided through two team subconsultants (topographic and hydrographic survey) as well as partially in-house (topographic survey), so clear and frequent coordination was required during the early stages of preliminary design.

Stantec delivered the project in the customary phases and has **performed quality reviews** throughout the process prior to milestone submittals. Stantec designed a new railroad crossing near the Port of Lake Charles, which required coordination with DOTD and **the development of technical specifications and special provisions for this project** that were included in the bid package for construction.

Although a **TMP** was not required for this project, as it is largely constructed in greenfield area, stakeholder coordination with the L'Auberge Du Lac Casino and Resort as well as the Port of Lake Charles was important during the planning process to coordinate the proposed **traffic control** as well as access management and impacts throughout all phases of construction. To assist with public media releases, Stantec also developed a 3D rendering using various viewpoints of the project (daytime and nighttime).

Stantec is involved in the Construction Phase of this project, providing **construction support** and limited CE & I services specific to lighting and railroad construction.

TEAM MEMBERS INVOLVED: J. CAINS, G. HEITMAN, C. HALL, J. LEFANTE, B. JOHNSON, N. PRUDHOMME, M. O'ROURKE, M. NEUMANN, J. KREBS, K. MALPANI

TASK RELEVANCE:

- Topographic Survey
- Preliminary and Final Roadway Design, Plan Development, and Cost Estimates
- Bridge Design
- Hydraulic Analysis and Design
- Traffic Control Design, Traffic Signal Analysis, and Design
- Road Design Services During Environmental
- Railroad Crossing at Port of Lake Charles
- Special Provisions
- Quality Review
- USACE and USCG Permitting
- Construction Support



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Road, Bridge, Traffic
PROJECT NAME	US 90 AT LA 85 INTERCHANGE DESIGN-BUILD		FIRM RESPONSIBILITY (prime or sub?)	Subconsultant
PROJECT NUMBER	450-10-0111	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Patoutville, Louisiana		OWNER'S PROJECT MANAGER	Ryan Reviere
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access Road, Baton Rouge, LA 70802 225.379.1071 ryan.reviere@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	10/09	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$26,600 (DB Contractor's Bid)	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	06/11	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$1,396	

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

Improved the intersection of US 90 at LA 85 to a grade-separated, diamond interchange and upgraded parallel, two-way, frontage roads.

For one of the first design-build projects undertaken by LADOTD, Stantec served as Lead Design Engineer on the contractor-engineer team that secured the winning proposal. The project included the construction of a **grade-separated, diamond interchange** to replace the existing US 90 intersections with LA 85 in Iberia Parish. This stretch of US 90 has been designated as the future I-49 corridor.

Two new parallel structures on US 90 with concrete girder spans were provided to overpass existing LA 85. LA 85 was previously a two-lane roadway and the overpass structures built for US 90 allowed LA 85 to be widened to four lanes in the future. The project included design and construction plans for new interchange signage in accordance with LADOTD standards and criteria, as well as AASHTO guidance.

As an additional part of the project, **two-way frontage roads parallel to each side of US 90** were improved by replacing the existing pavement and roadway signage. A major communications tower (over 350-foot high) was removed within the median of US 90 and replaced with a taller, 450-foot structure as part of the project.

As Lead Design Engineer for the project, **Stantec was responsible for managing the design** of survey, roadway, hydraulics, structural, geotechnical, and utility relocation elements. **Stantec provided the design quality control management for the project, including developing a Design Quality Plan and securing approval from the LADOTD.**

Stantec also implemented a Maintenance of Traffic plan used during construction, being careful not to interrupt a **nearby railroad crossing or inhibit large sugar cane tracks operating in the area**. The future reclassification of the roadway resulted in elevating the existing rural arterial to interstate standards. All elements were designed to meet current LADOTD interstate standards and certified to meet the Quality Plan.

Stantec supported the contractor and DOTD during construction by participating in the resolution of requests for information (**RFIs**) and non-conformance reports (**NCRs**), as well as **shop drawing reviews**, plan updates, and as-built record drawings. The project construction was completed in June 2011.

TEAM MEMBERS INVOLVED: **C. HALL, G. HEITMAN, J. CAINS, J. KREBS, B. JOHNSON, M. O'ROURKE, N. PRUDHOMME**

TASK RELEVANCE:

- Topographic Survey
- Preliminary and Final Roadway Design, Plan Development, and Cost Estimates
- Bridge Design
- Frontage Roads
- Hydraulic Analyses and Design
- Utility Relocations
- Provisions for Large Trucks and Railroad
- Quality Review
- Construction Support



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Road, Traffic, Bridge
PROJECT NAME	US 90 AT LA 318 INTERCHANGE DESIGN-BUILD		FIRM RESPONSIBILITY (prime or sub?)	Subconsultant
PROJECT NUMBER	H.004932	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	St. Mary Parish, Louisiana		OWNER'S PROJECT MANAGER	Timothy Nickel, PE
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access Road, Baton Rouge, LA 70802 225.379.1110 timothy.nickel@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	07/15	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$55,700 (DB Contractor's Bid)	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	06/18	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$4,834	

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

Improved the intersection of US 90 at LA 318 to a grade-separated interchange, upgraded to interstate standards in preparation for the Future I-49 Corridor, and provided frontage roads for local traffic.

Stantec served as the Lead Design Engineer for this Design-Build project which improved the intersection of US 90 at LA 318 to a grade-separated interchange and brought US 90 up to interstate standards as a part of the Future I-49 Corridor. The project included dual overpass bridges, ramps, and **frontage road relocations**. It also improved LA 318 to a two-lane divided highway within the interchange footprint.

During the project, Stantec provided supporting exhibits and materials to **assist in the re-evaluation of the environmental document** due to the approved Alternative Technical Concept (ATC) for the project. Stantec also developed public meeting exhibits and participated in the meeting to inform participants about the proposed changes.

Topographic Survey was provided by LADOTD for this project, but Stantec provided property survey, ROW mapping, and ROW acquisition for the project. During the Definitive Design, Interim, and RFC Design Phases (i.e. **Preliminary and Final Design**), we coordinated horizontal and vertical design roadway elements with the bridge group, as well as performed cross drain and open ditch **hydraulic analysis** using HEC-RAS and LADOTD HYDRWIN software in this rural area to ensure that adverse drainage conditions would not result from the proposed improvements. The new I-49 bridges were designed as twin overpasses with repetitive spans of 111-ft, LADOTD LG-54 girders - streamlining both design and construction. Prior to the approval of the design phases, Stantec was required to develop a Level 3 TMP document for the project.

Stantec was responsible for utility relocations on this project and worked closely with the District 03 Utility Relocation Specialist to develop utility relocation agreements and permits and to process utility cost estimates, invoices, and change orders **for six utility companies** with facilities in conflict with the project. Stantec also designed water and sanitary sewer relocation plans for St. Mary Parish. **Stantec performed Quality Reviews** by implementing their Quality Management Plan, which included reviews by the discipline lead, design manager, and **an independent reviewer for each RFC submittal**.

Stantec was heavily involved in the construction process, **providing construction support by responding to Contractor RFIs, NCRs, and design clarifications** needed to assist them with making progress. We also attended weekly progress meetings and quarterly partnering meetings throughout the process.

TEAM MEMBERS INVOLVED: C. HALL, G. HEITMAN, J. CAINS, B. JOHNSON, J. LEFANTE, N. PRUDHOMME, M. O'ROURKE, M. NEUMANN, J. KREBS, K. MALPANI

TASK RELEVANCE:

- Preliminary and Final Roadway Design, Plan Development, and Cost Estimates
- Bridge Design
- Hydraulic Analysis and Design
- Traffic Control Design, TMP
- Road Design Services during Environmental
- Utility Relocations
- Provisions for Large Trucks
- Quality Review
- Construction Support



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Road, Bridge, Traffic
PROJECT NAME	LADOTD RETAINER CONTRACT FOR ROADWAY PROJECTS		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.4400002748	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Statewide, Louisiana		OWNER'S PROJECT MANAGER	Ryan McMillan
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access, Baton Rouge, LA 70808 225.379.1388 ryan.mcmillan@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	10/12	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$2,835.2	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	09/17	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$2,567.3	

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

Under this retainer, Stantec helped LADOTD deliver improvements on major congested roadway corridors, providing relief to these areas for years to come. Projects included widening and improving two existing roadways and a roadway on new alignment.

Task orders for this retainer contract focused primarily on major corridors in congested areas. We provided **topographic surveys, roadway design, hydraulic analysis** and design, structural design, traffic analysis and modeling, traffic control, signal design, and construction plans for these projects as required. Prior to each submittal, we performed **internal and independent quality reviews** to ensure seamless integration of all disciplines in well-organized, constructible plan sets. In addition, we evaluated these corridors for complete streets implementation in accordance with LADOTD and local policies and guidance.

W. Prien Lake Road Relocation: task order was initiated through a third-party stakeholder (developer) who was willing to donate the right-of-way for the project in exchange for access related to their development. Stantec was asked to develop **preliminary and final plans** for the project, which included complete streets features such as a separated shared use path and sidewalk to promote bicycle and pedestrian mobility as well as a multi-lane roundabout. The project also featured a new signalized intersection at the relocated roadway and Nelson Road, which required our team to develop traffic signal warrants, signal timing analyses, and signal plans. Due to the planned urban setting for this area, this project also provided subsurface drainage as well as **hydraulic analysis of a 12'x12' multi-barrel box culvert which was also designed by Stantec's structures group**. Since the improvements impacted certain areas near the Nelson Road interchange at I-210, Stantec developed a **Level 2 TMP** document. Stantec also **provided construction support** during the construction phase of the project, **providing timely answers to contractor RFIs** and questions, as well as **reviewing shop drawings**. Now complete, this project has improved traffic flow in this very congested area of Southwest Lake Charles. This project was part of the LADOTD Road Transfer program, which was turned over to the City of Lake Charles upon completion of construction.

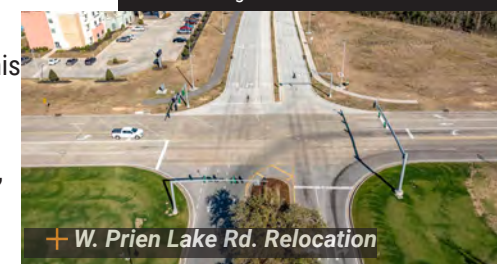
Essen Lane Widening: included Roadway Design **support for environmental clearance**, providing exhibits, cost estimates, and technical discussions of the project, in addition to participating in the public meeting. Following environmental clearance, we **provided final roadway (including hydraulic analysis and design), bridge, and signal plans** for the project, and coordinated with all parties to make sure the final construction documents were delivered in a timely manner. This project also included the development of a Level 2 TMP document. During the construction phase, we also **assisted District 61 with construction support** by coordinating solutions for utility conflicts, as well as **answering RFIs and providing any design clarifications** requested to assist the contractor in completing construction. Essen Lane has greatly reduced congestion along the corridor and improved mobility and accessibility for this principal arterial in Baton Rouge.

Government Street: included **extensive traffic analysis**, modeling, and safety analysis to develop conceptual alternatives to increase traffic safety and improve access management in this highly commercial corridor. Considerations of the LADOTD Complete Streets policy played a key role in deciding the alternative chosen for implementation. A "road diet" was identified as the preferred alternative including a roundabout at the intersection of Government St. and Lobdell Ave., and Stantec **developed final construction plans** for these improvements. The construction plans consisted of **roadway plans (including hydraulic analysis and design) as well as pavement rehab, railroad coordination, ADA improvements, signal warrants and plans**, and landscaping plans for enhancement of this corridor. During the construction phase, we **provided construction support** by answering contractor questions, providing design clarifications, and coordinating with stakeholders about access.

TEAM MEMBERS INVOLVED: C. HALL, G. HEITMAN, J. CAINS, J. LEFANTE, B. JOHNSON, N. PRUDHOMME, M. O'ROURKE, M. NEUMANN, J. KREBS, M. DAVIS

TASK RELEVANCE:

- Topographic Survey
- Preliminary and Final Roadway Design, Plan Development, and Cost Estimates
- Bridge Widening and Structural Design
- Hydraulic Analysis and Design
- Traffic Control Design, Traffic Signal Analysis, Design, and TMP
- Road Design Services During Environmental
- Special Provisions
- Quality Review
- Construction Support and Shop Drawing Review



FIRM NAME	Stantec Consulting Services Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Roadway, Traffic
PROJECT NAME	DIJON EXTENSION AND 3RD PARTY EA COORDINATION		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.012233 (Phase 1) H.012232 (Phase 2)	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Baton Rouge, Louisiana		OWNER'S PROJECT MANAGER	Christina Brignac
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capital Access Road, Baton Rouge, LA 70802 225.379.1394 christina.brignac@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	08/15	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$2,703	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	09/19	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$2,476	

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

Improvements including extending Dijon Drive and Manusco Lane and a new Midway Boulevard roadway.

This project extended Dijon Drive, Manusco Lane, and Midway Boulevard to provide a roadway network within the Baton Rouge Health District supporting the continued growth of healthcare facilities. The Dijon Extension roadway is **1.25 miles of new alignment from Essen Lane to Bluebonnet Boulevard**. It consists of a four-lane roadway with a raised center median, sidewalks, and a shared-use path. Stantec designed subsurface drainage, a gravity sewer, and sewer mainforce to provide for future development.

The proposed alignment falls within a wetland, for which a USACE 404 permit and mitigation plan were approved in association with the 2017 EA/FONSI effort. Stantec completed a reevaluation of 2017 NEPA FONSI in 2021, which involved additional property owner outreach, Conceptual Stage Relocation Plan (CSR), and coordination of revisions to the 404 USACE standard and NWP-39 permits. **The vertical profile was designed to meet the 50-year flood stage** for Ward Creek; since emergency vehicles require access over 10' of fill was placed. Stantec worked with the geotechnical subconsultant to determine the best sequence of construction to allow for embankment settlement and the construction of the subsurface drainage, gravity sewer, and sewer forcemain.

The proposed roadway incorporated complete streets, providing bicycle and pedestrian facilities with a shared-use path on the north side and a sidewalk on the south side. The shared-use path connects an existing and future BREC trail as part of the master plan. Stantec designed a hybrid beacon signal to enhance the safety of mid-block crossing for bicycle and pedestrian traffic. **We also designed new traffic signals for the Dijon Drive Extension intersections at Essen Lane and Bluebonnet Boulevard**. Stantec performed additional traffic analysis for the nearby roadway network. From this analysis, we designed additional signal improvements and widened turn lanes at the Bluebonnet Boulevard and I-10 interchange.

The design of the Dijon Drive Extension was broken out into two phases. Construction of phase 1, 0.60 miles of new roadway, was completed in 2019. Phase 2, 0.65 miles of new roadway and improvements at the Bluebonnet/I-10 interchange is currently under construction. **Stantec is providing ongoing construction support** for phase 2.

This project was designed in accordance with state standards, was let for construction by DOTD, and will be transferred to the City of Baton Rouge once construction is complete.

TEAM MEMBERS INVOLVED: **G. HEITMAN, C. HALL, J. CAINS, S. HOFFELD, N. PRUDHOMME, M. NEUMANN, J. LEFANTE**

TASK RELEVANCE:

- Topographic Survey
- Corridor Widening and New Location
- Environmental Assessment
- Preliminary and Final Roadway Design, Plan Development, and Cost Estimates
- Traffic Analysis and Signal Design
- Special Provisions
- Quality Review
- USACE Permitting
- Construction Support



FIRM NAME	Lazenby & Associates, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Survey
PROJECT NAME	US 371: KCS RR OVERPASSES (HBI)		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	S.P.N. H.012030	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Webster Parish, Louisiana		OWNER'S PROJECT MANAGER	Steve A. LeBlanc, PLS
OWNER'S ADDRESS, PHONE, EMAIL	P.O. Box 94245, Baton Rouge, LA 70804-9245 225.379.1292 steve.leblanc2@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	12/2022	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$222.3	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	3/2023	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$222.3	

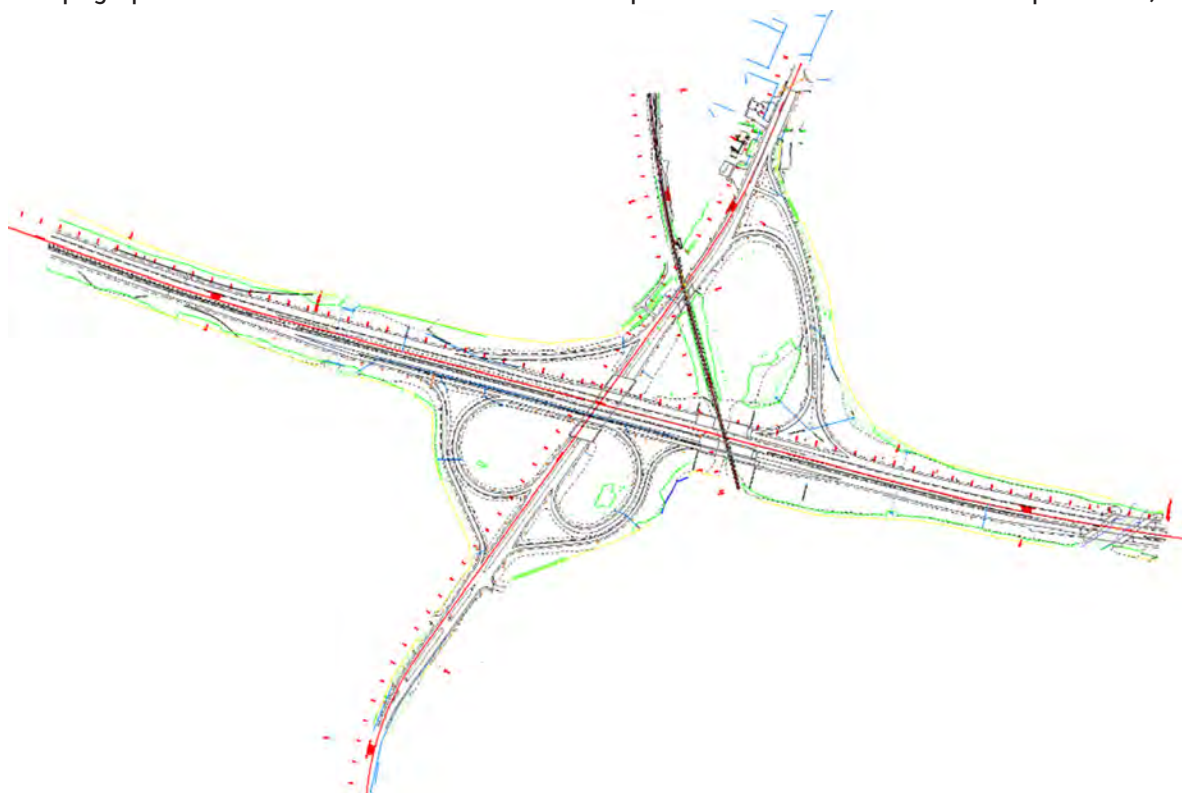
Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Lazenby is the prime consultant on this project, performing topographic surveying services within the existing US 371/I-20 interchange ROW for existing roadway lighting improvements. The topographic survey limits includes approximately 3,800 feet along US 371 (urban minor arterial) and 5,600 feet along I-20 (urban interstate) located in Minden, Louisiana.

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. In addition, 3D LIDAR point clouds were collected using both stationary terrestrial tripod mounted scanner and UAV scanner payload. Topographic features were extracted from the 3D point cloud such as hard surface pavement, bridge structures, traffic signs, overhead truss sign supports, guardrails, and existing traffic lighting. UAV photogrammetry was collected to assist with the QA/QC validation of the topographic survey.

In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call, and preparation of an existing drainage map of the project area. An existing DTM was developed using surface elevations collected and existing alignments were calculated along the US 371/I-20 corridors, including all interchange ramps.

TEAM MEMBERS INVOLVED: **R. RIGGIN, R. HAMMONS**



FIRM NAME	Lazenby & Associates, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Survey
PROJECT NAME	I-20 WIDENING/OVERLAY (VANCIL RD TO LA 34)		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	S.P.N. H.015052	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Ouachita Parish Louisiana		OWNER'S PROJECT MANAGER	Steve A. LeBlanc, PLS
OWNER'S ADDRESS, PHONE, EMAIL	P.O. Box 94245, Baton Rouge, LA 70804-9245 225.379.1292 steve.leblanc2@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	5/2022	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	393.9	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	1/2023	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	393.9	

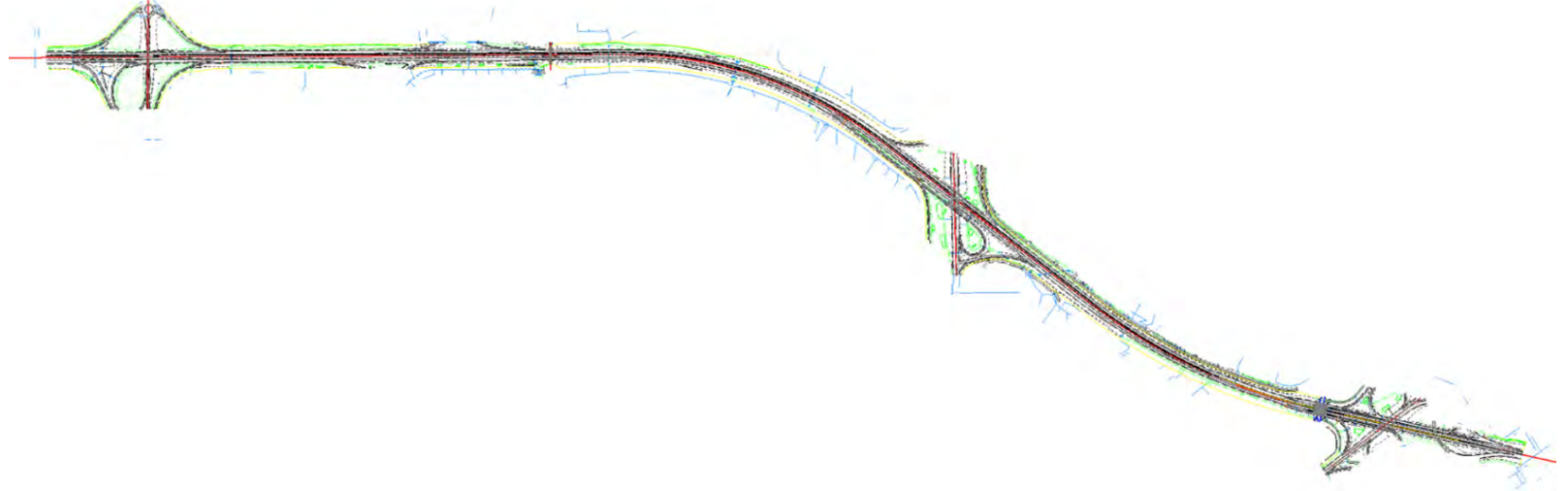
Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Lazenby is the prime consultant on this project, performing topographic surveying services within the existing I-20 ROW for existing interstate widening and overlay. Approximately 20,815 feet (3.94 mi) along I-20 (urban interstate) through West Monroe, LA is included in the topographic survey limits, including portions of three urban principal arterial and one urban major collector interchanges/overpasses.

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. In addition, 3D LIDAR point clouds were collected using both stationary terrestrial tripod mounted scanner and mobile scanning. Topographic features were extracted from the 3D point cloud such as hard surface pavement, bridge structures, traffic signs, overhead truss sign supports, guardrails, and existing traffic lighting. 360 camera images collected with the mobile LIDAR and georeferenced aerial imagery were used to assist with the QA/QC validation of the topographic survey.

In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call and preparation of an existing drainage map of the project area. An existing DTM was developed using surface elevations collected and existing alignments were calculated along the I-20 corridor, interchanges and overpasses.

TEAM MEMBERS INVOLVED: **R. RIGGIN, R. HAMMONS**



FIRM NAME	Lazenby & Associates, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Road, Survey
PROJECT NAME	ARKANSAS ROAD (WEST MONROE) LA 616		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	S.P. N. H.002622	OWNER'S NAME	Louisiana Department of Transportation & Development	
PROJECT LOCATION	Ouachita Parish, Louisiana		OWNER'S PROJECT MANAGER	Fred Borne, P.E. (Retired)
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capitol Access Road Baton Rouge, Louisiana 70808 225.379.1388 Fred.Borne@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	12/07	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$1,611	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	06/15	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$1,512	

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

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

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

TEAM MEMBERS INVOLVED: **J. LAZENBY, P. FRYER, R. HAMMONS, R. RIGGIN, J. SPILLERS**



FIRM NAME	NTB Associates, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	**Survey, Other (SUE)
PROJECT NAME	LA 1 EASEMENT STAKING & SUE SERVICES		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	CP 101783539	OWNER'S NAME	CenterPoint Energy	
PROJECT LOCATION	Caddo Parish, Louisiana		OWNER'S PROJECT MANAGER	Ronald E. (Gene) Prather, PLS
OWNER'S ADDRESS, PHONE, EMAIL	1111 Louisiana Street, Houston, TX 77002 318.429.4211 ronald.prather@centerpointenergy.com			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	08/22	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$33.9	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	10/22	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$33.9	

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

NTBA performed QL B designating and surveying services for approximately 1.5 miles along LA 1 in Shreveport near the Red River Port from south of Doug Attaway Boulevard to Tones Bayou Road. NTBA re-established and staked two miles of highway ROW and located an additional 0.5 miles of CenterPoint facilities using electromagnetic designating equipment.

This project included designating CenterPoint facilities as well as all other utilities within 50 feet of the CenterPoint facilities or crossing their facilities to assist with the design of a new gas line within their existing servitude.

This project required NTBA to survey the location of all designated facilities for incorporation into an AutoCAD file for final submittal.

NTBA utilized electromagnetic designating equipment as well as Ground Penetrating Radar in the designating of the utilities on the eastern side LA 1 utilizing CI/ASCE Standard 38-02.

TEAM MEMBERS INVOLVED: **P. ROSSINI, G. GILLEON, A. SCHULZE**



FIRM NAME	NTB Associates, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	**Survey, Other (SUE), Right-of-Way
PROJECT NAME	JIMMIE DAVIS BRIDGE (LA 511) DESIGN-BUILD		FIRM RESPONSIBILITY (prime or sub?)	Subconsultant
PROJECT NUMBER	H.001779	OWNER'S NAME	LaDOTD Baton Rouge/James Construction/Huval & Associates, Inc.	
PROJECT LOCATION	Bossier & Caddo Parishes, Louisiana		OWNER'S PROJECT MANAGER	Aaron Dupont
OWNER'S ADDRESS, PHONE, EMAIL	18484 E. Petroleum Drive, Baton Rouge, LA 70809 225.442.6362 adupont@prim.com			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	01/23	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$1,140	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	On-going	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$1,140	

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

NTBA is performing Static GPS control, topographic and property surveying services, title takeoffs, title research reports, ROW mapping, traffic control, utility coordination services, and QL A, B, C, and D utility designating/locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.

The scope of this project consists of constructing a new, four-lane structure carrying LA 511 across the Red River, repurposing the existing Jimmie Davis Bridge as a Linear Park to provide bicycle and pedestrian facilities, converting LA 511 (Jimmie Davis Hwy) into a four-lane, median-divided highway on the east side of bridge, and providing full access interchanges between LA 511 and Clyde Fant Memorial Parkway and Arthur Ray Teague Parkway. NTBA designed and implemented a Traffic Control Plan for the project's bridge closure which was completed during night shifts to ensure safety and avoid travel disruptions.

NTBA verified the horizontal and vertical control set by LaDOTD during the original survey and verified the vertical control for both sides by running digital levels across the bridge, which was not performed in the original survey. For property surveys, title take-offs were attained for all properties adjacent to the route and a property survey submittal prepared with apparent ROW shown. Title Reports are also being prepared by our subconsultant for the known areas of taking. ROW maps will be prepared once the final alignment is established so the takings can be confirmed. NTBA is identifying all utilities in conflict with the construction and coordinating any required utility adjustments with the utility owner.

NTBA is utilizing the Louisiana Department of Transportation Survey and Design guidelines as well as CI/ASCE Standard 38-02.

TEAM MEMBERS INVOLVED: **P. ROSSINI, A. SCHULZE, B. BUNCH, G. GILLEON**



FIRM NAME	NTB Associates, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	**Survey, Other (SUE)
PROJECT NAME	I-20: MONKHOUSE TO I-49, ROUTE I-20		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	4400017713/ H.010468.5	OWNER'S NAME	LaDOTD Baton Rouge	
PROJECT LOCATION	Caddo Parish, Louisiana		OWNER'S PROJECT MANAGER	Barrett Smith, PLS
OWNER'S ADDRESS, PHONE, EMAIL	1201 Capitol Access Road, Baton Rouge, LA 70802 225.379.1133 barrett.smith@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	04/22	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$1,355	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	04/23	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$1,355	

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

NTBA performed Static GPS Control, topographic surveying services utilizing RTK and conventional surveying and HDS 3D Terrestrial Laser Scanning, Traffic Control, and QL C and D subsurface utility investigation for interstate rehabilitation. NTBA also prepared a drainage map.

This project was one of the largest topographic surveys NTBA has ever been a part of. It consisted of 4.89 miles of interstate, 2.35 miles of side streets, and a drainage area of approximately 990 acres. Surveys and utility investigations were performed along I-20 beginning approximately 4,200 ft. southwest of the intersection of Monkhouse Dr. and I-20 and proceed in a northeasterly direction along I-20 ending at the westerly end of the I-20/I-49 interchange. Areas included Monkhouse Drive, Jewella Avenue, Hearne Avenue, Greenwood Road, Texas Avenue, and Lakeshore Drive.

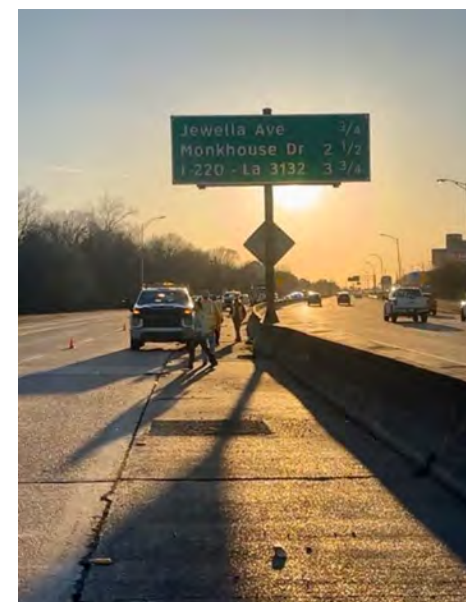
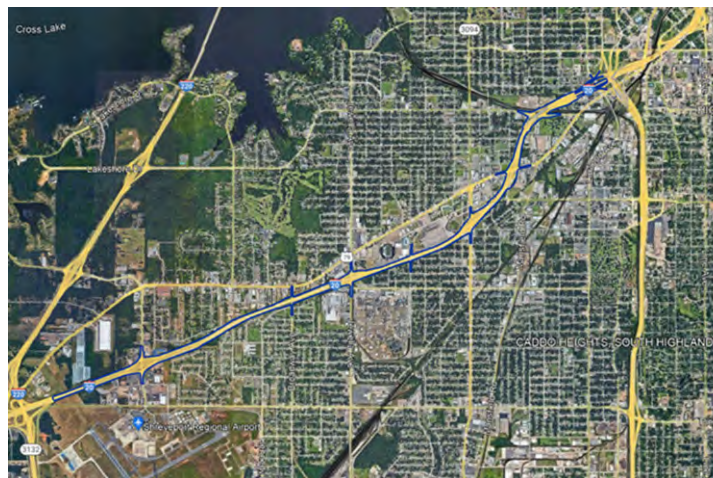
NTBA managed our sub-consultant, E.S.P. Associates, P.A., for Mobile Laser Scanning Services of hard surfaces along the route. NTBA performed data extraction of mobile scan data for incorporation into Inroads and for Point Cloud delivery.

LADOTD's project schedule had an allowable duration of 365 days, but NTBA completed in 359 days with one minor comment. This effort took 3,999 field crew hours, 3,448 CADD hours, and 2,250 PLS hours.

There were over 70,000 points for the topographic survey and over 1,500 drainage structures surveyed for the drainage map. The areas included major thoroughfares, surface streets, railroad rights-of-way, and drainage canals. MicroStation files were the deliverable for the project.

All services were completed in accordance with the Location and Survey Manual and all currently accepted Location and Survey Automated procedures.

TEAM MEMBERS INVOLVED: P. ROSSINI, A. SCHULZE, B. BUNCH, G. GILLEON



FIRM NAME	EJES, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	**Bridge
PROJECT NAME	NEW COTTON STREET BRIDGE, OVER BAYOU RAPIDES, CITY OF ALEXANDRIA		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	N/A	OWNER'S NAME	City of Alexandria	
PROJECT LOCATION	Alexandria, LA		OWNER'S PROJECT MANAGER	Eric Duck, PE
OWNER'S ADDRESS, PHONE, EMAIL	625 Murray Street, Alexandria, LA 71301 318.473.1170 eric.duck@cityofalex.com			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	2010	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$5,300	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	2013	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$478	

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

EJES, as prime, provided engineering services for a new gateway bridge over Bayou Rapides in downtown Alexandria, Louisiana. The project will connect Cotton Street to both Foisy and 6th Streets.

The project requires the complete design of the Cotton Bridge, realignment of an asphalt walking path, relocation of a 20-inch sewer main, and a 6-inch steel high pressure gas main. The relocated sewer and gas mains will include levee and bayou crossings.

The project also requires hydraulic analysis to upgrade and incorporate the storm drainage system into the project.

TEAM MEMBERS INVOLVED: **T. GILBERT-BAKER**

TASK RELEVANCE:	
<input checked="" type="checkbox"/>	Bridge Design
<input checked="" type="checkbox"/>	Bridge Details
<input checked="" type="checkbox"/>	Bridge Specifications
<input checked="" type="checkbox"/>	Hydraulic Report



FIRM NAME	EJES, Inc.		PAST PERFORMANCE EVALUATION CATEGORY (IES)*	**ROAD
PROJECT NAME	DESOTO PARISH ROAD REHABILITATION (2009)		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	N/A	OWNER'S NAME	Desoto Parish Police Jury	
PROJECT LOCATION	Mansfield, Louisiana		OWNER'S PROJECT MANAGER	Steve Brown, PE
OWNER'S ADDRESS, PHONE, EMAIL	101 Franklin St, Mansfield, LA 71052 318.872.0738 sbrown@desotoppj.com			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	02/09	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	\$7,500	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	07/10	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$750	

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

Developed a roadway rehabilitation plan to improve substandard paving at various locations throughout the Parish network.

Desoto Parish's initial plan was to rehabilitate 32 miles of substandard roadway at various locations throughout their system. A massive amount of oil and gas activities were underway at the time of the project, and the heavy drilling equipment and associated material trucks were causing a considerable amount of unforeseen roadway failures. Initial rehabilitation concepts varied from mill/overlay plans to complete reconstruction. In addition, the Parish was interested in widening the existing pavement to meet current traffic capacity demands. The original construction budget allocated for this project was \$14.6 million.

EJES was tasked with developing an improvement plan that would meet the Parish's goals where feasible while making the best possible use of the allocated construction budget. EJES reviewed the highest need locations for possible construction solutions, as well as analyzed the cost/benefit for multiple construction options. Eventually, cost-savings measures became more critical, as the construction budget was reduced \$7.5 million.

In an effort to help the Parish meet its goal, EJES analyzed and implemented several cost-savings measures, such as investigation and analysis of existing crossdrain structures for salvage instead of replacement. Another proposed concept was to vary the typical section thickness and width depending on the horizontal and vertical curvature of the road. For example, the proposed pavement width for straight sections was 20 feet, while the width was increased to 24 feet for horizontal curves. These innovative measures allowed the Parish to reconstruct the desired roadways within the allotted budget.

Additionally, the Parish had a scheduling constraint requiring the projects to be designed and advertised for bids within 60 days. EJES managed the process by utilizing three survey crews and geotechnical services concurrently while designing the project. Using this aggressive, expedited approach, EJES was able to develop plans and specifications that met construction requirements while meeting the client's scheduling needs.

TEAM MEMBERS INVOLVED: **E. JONES, T. GILBERT-BAKER**



FIRM NAME	EJES, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	**Road
PROJECT NAME	PLANK ROAD PHASE 2		FIRM RESPONSIBILITY (prime or sub?)	Subcontractor
PROJECT NUMBER	N/A	OWNER'S NAME	Baton Rouge Metropolitan Airport	
PROJECT LOCATION	Baton Rouge, Louisiana		OWNER'S PROJECT MANAGER	Ashley Beckendorf, PE (Volkert)
OWNER'S ADDRESS, PHONE, EMAIL	4141 Bienville Street, Suite 102, New Orleans, LA 70119 225.218.9440 Ashley.beckendorf@volkert.com			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	06/23	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	Unknown	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	ONGOING	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$63	

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

EJES (subconsultant) provided engineering design services for a new Plank Road alignment required for the Greater Baton Rouge Metropolitan Airport runway extension.

In addition to the realignment of Plank Road, subsequent rerouting to Harding Boulevard and Hooper Road will be required. This will involve an elevated roadway, overpasses, intersection, traffic signalization, and ROW acquisition.

EJES is providing professional services in the form of roadway design.

TEAM MEMBERS INVOLVED: **B. JOSEPH**



FIRM NAME	GeoEngineers, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Geotech
PROJECT NAME	I-210 AT COVE LANE INTERCHANGE (DESIGN AND CONSTRUCTION)		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.010151	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Route I-210, Lake Charles, LA		OWNER'S PROJECT MANAGER	Benjamin Fernandez
OWNER'S ADDRESS, PHONE, EMAIL	P.O. Box 94245, Baton Rouge, LA 70816 225.379.1821 Benjamin.Fernandez@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	08/12	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	~72,000	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	07/15	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$2,470	

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

GeoEngineers completed a geotechnical engineering evaluation, design, and construction monitoring for the new Interstate 210 (I-210) overpass of Cove Lane in Lake Charles, Calcasieu Parish. This fast-track project required our team to mobilize five different drill rigs for explorations and staff from offices across the country in order to meet the schedule requirements. We completed engineering analyses and provided design and construction recommendations for about 8,000 driven pile foundations, MSE walls and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges.

GeoEngineers provided a complete geotechnical investigation, including 128 explorations (43 drilled soil borings and 85 CPTs) to depths in the range of 20 to 120 feet and associated soil laboratory testing for the I-210 overpass structure with approach embankments and ramps, which is aligned within a very crowded corridor between Cline Canal and private property.

The proposed embankment overpass structure used a tight urban diamond configuration with a roundabout for the new Cove Lane interchange. The team used Pile Driving Analyzer (PDA) equipment to evaluate and monitor installation of one pile every 50 of the 8,000 piles the contractor placed.

In addition, our numerous detailed records provided valuable information to the DOTD and team members during the project. The work for this large project had to be performed very close to live traffic. Safety measures were heightened even more to ensure the safety of everyone working on the project and to the ongoing traffic.

TEAM MEMBERS INVOLVED: **J. ARONSTEIN, L. SANT**

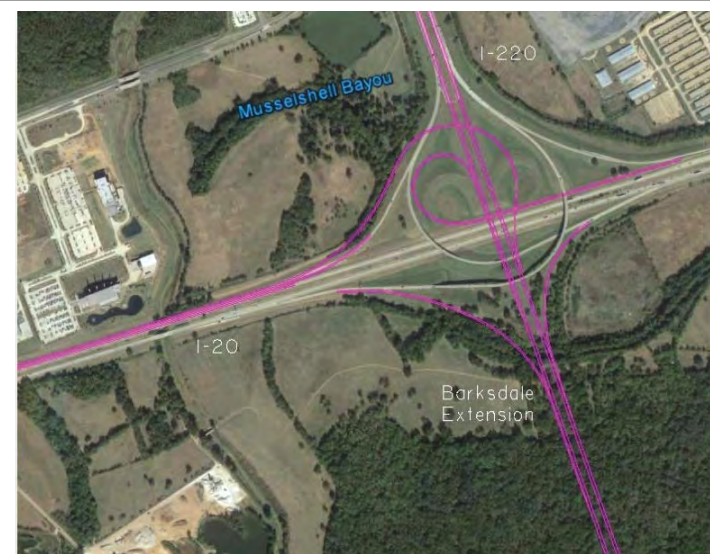


FIRM NAME	GeoEngineers, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Geotech
PROJECT NAME	DESIGN BUILD I-20/I220 INTERCHANGE BARKSDALE AFB/GEOTECHNICAL OV-QA		FIRM RESPONSIBILITY (prime or sub?)	Prime
PROJECT NUMBER	H.003370.5	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Bossier Parish, Louisiana		OWNER'S PROJECT MANAGER	Kristy Smith
OWNER'S ADDRESS, PHONE, EMAIL	P.O. Box 94245, Baton Rouge, LA 70816 225.248.4125 kristy.smith2@la.gov			
SERVICES COMMENCED BY THIS FIRM (MM/YY)	05/18	TOTAL CONSULTANT CONTRACT COST (\$1,000's)	N/A	
SERVICES COMPLETED BY THIS FIRM (MM/YY)	09/19	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)	\$288,108	
Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)				

GeoEngineers' OV/QA role in this design-build project involved interchange improvements, including review of designs for driven piles and drilled shafts that increased access to the Barksdale Air Force Base. GeoEngineers provided quality assurance services for this project and included structures for the I-20/I-220 Interchange, preliminary design analyses in preparation for reviewing design reports and communications for compliance with LRFD and other standards, and discussions during design meetings.

We also provided the preliminary geotechnical explorations for this fast-tracked I-20/I-220 Barksdale AFB Design Build project, which included: deep borings for the structures and embankments; difficult access borings near unexploded ordinance (UX) areas; roadway borings; geotechnical laboratory testing; and LADOTD gINT boring logs.

TEAM MEMBERS INVOLVED: **J. ARONSTEIN, L. SANT**



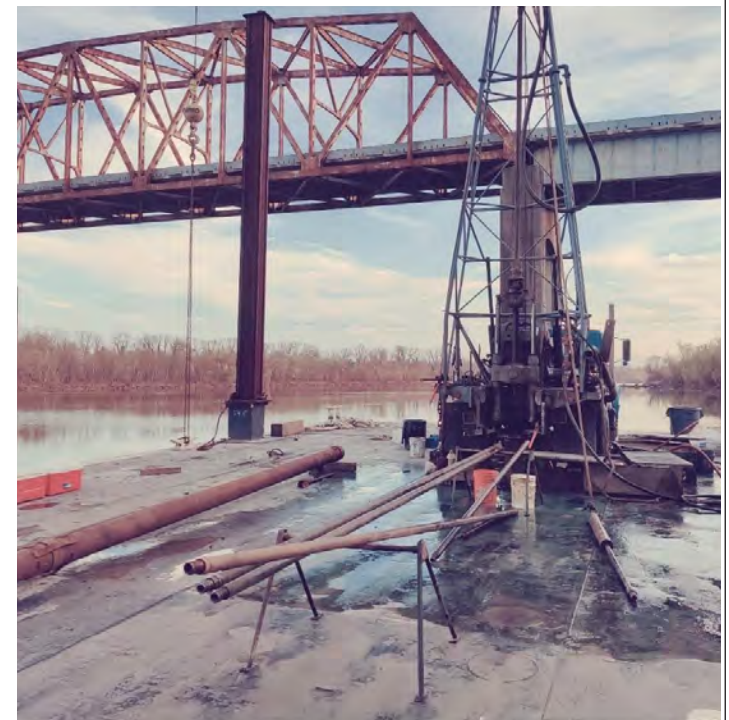
FIRM NAME	GeoEngineers, Inc.		PAST PERFORMANCE EVALUATION CATEGORY(IES)*	Geotech
PROJECT NAME	JIMMIE DAVIS BRIDGE (HBI) DESIGN-BUILD PROJECT		FIRM RESPONSIBILITY (prime or sub?)	Sub
PROJECT NUMBER	H.001779.5	OWNER'S NAME	Louisiana Department of Transportation and Development	
PROJECT LOCATION	Bossier and Caddo Parish, Louisiana		OWNER'S PROJECT MANAGER	Kristy Smith
OWNER'S ADDRESS, PHONE, EMAIL		P.O. Box 94245, Baton Rouge, LA 70816 225.248.4125 kristy.smith2@la.gov		
SERVICES COMMENCED BY THIS FIRM (MM/YY)	10/21	TOTAL CONSULTANT CONTRACT COST (\$1,000's)		N/A
SERVICES COMPLETED BY THIS FIRM (MM/YY)	02/22	COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM (\$1,000's)		\$902,331

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

GeoEngineers provided the preliminary geotechnical explorations for the fast-track Jimmie Davis Bridge Design Build project, which included: deep borings in the Red River; difficult access borings on the bature; bridge borings; roadway borings; geotechnical laboratory testing; and LADOTD gINT boring logs. Planned improvements to the Jimmie Davis Bridge include the following:

- Four-lane bridge – steel and concrete structure
- J-turn corridor for Completion of LA 511-Arthur Ray Teague Parkway intersection
- Improvements to Century Link Center Drive access
- Bicycle and pedestrian facilities crossing the Red River that connect to existing trails on either side
- Existing bridge rehabilitation, lighting, and repurposing the existing bridge into a linear park;
- Utility coordination; and
- Maintenance of traffic in a congested urban environment.

TEAM MEMBERS INVOLVED: **J. ARONSTEIN, L. SANT**



18. **Approach and Methodology:****Introduction & Project Understanding**

This advertisement for services relates to the planning, design, and construction of an approximately 11-mile frontage road along the future I-69 corridor from Stonewall Frierson Road to LA 1. The frontage road consists of three segments with separate project numbers that, when pieced together, will provide much needed direct access from I-49 to the Port of Caddo-Bossier.

The first portion of the frontage road (H.014056) is approximately 5.3 miles long and is intended to widen and improve Stonewall Frierson Road from just east of the I-49 interchange to its intersection with Bloxum Road, improves Bloxum Road to its intersection with Clark Road, and improves the short easterly portion of Clark Road before curving to the northeast to the tie in point with the next segment of the project.

The second segment of the frontage road (H.005184) generally parallels the I-69 alignment included in the Record of Decision (ROD) of the Segment of Independent Utility 15 approved on August 28, 2014. The ROD includes the new frontage road starting at the end of Segment 1 and continuing northeasterly across Wallace Bayou approximately 1500-ft downstream of the Wallace Lake Dam to Ellerbe Road just southeast of the intersection of Ellerbe Road and Wallace Lake Dam Road. The length of Segment 2 of the frontage road is approximately 2.6 miles and includes a structure at Wallace Bayou.

The third segment of the project (H.014054) starts at the end of Segment 2 at Ellerbe Road and continues in a northeasterly direction on new alignment to a point of convergence with Robson Road, then continues along the existing Robson Road alignment to a point east of the Bayou Pierre bridge crossing where it diverts on a new alignment west of, and roughly parallel to, existing Robson Road to the tie-in point at the LA 1/Doug Attaway Road intersection at the Port of Caddo-Bossier. The total length of Segment 3 is approximately 3.2 miles and includes three bridges.

Preliminary traffic studies have shown that a two-lane frontage road with 12-ft lanes and 10-ft shoulders should accommodate the 2040 traffic volumes which range from 5600 vpd in Segments 1 and 2 (west of Ellerbe Road) and 5300 vpd (east of Ellerbe Road to LA 1).

The project includes topographic survey along the entire frontage road, along I-49, LA 1, and other side roads near tie-in points to the frontage road, and 1,000-ft on each side of the railroad crossings at Kansas City Southern near Bloxum Road and at the Union Pacific Railroad near the tie-in to LA 1. Scope items includes project management (schedules, site visits, documentation, meetings), bridge design (four bridge sites identified and additional sites may be identified as the alignments are finalized), geotechnical (explorations, analysis and reporting), preliminary and final roadway, bridge, and traffic signal plans, with construction support required specifically for structures (RFIs, Shop Drawings,

and requests for minor design changes during construction). In addition to these services, our team is capable and prepared to expand services to include environmental reevaluation support, property survey, SUE services, additional construction support, and permitting assistance.

In preparation for this proposal, our team reviewed the Segment alignments included in the Stage 0 reports for H.014504 and H. 014506 and the Final EIS and ROD for SIU Section 15 of the I-69 Corridor, as described above. It is our understanding that the alignments will require further study and refinement during preliminary plan preparation to reconcile the alignments to the topographic survey, meet design criteria, avoid environmental impacts, and provide vertical design grades that meet the requirements for flood zones and floodplain management required by each Parish.

In addition to reviewing these documents, and prior to the advertisement, Stantec had several discussions with key stakeholders on the project including: Tim Nickel, the PM for the project; Kent Rogers from the Metropolitan Planning Organization (NLCOG); Steven Brown the Desoto Parish Floodplain Administrator; Ken Ward the Caddo Parish Floodplain Administrator; and Chase Gartrell from the USACE. These conversations and a visit to the site were very valuable, and have given us a head start on defining the project challenges and have informed our approach to the project.

PROJECT APPROACH

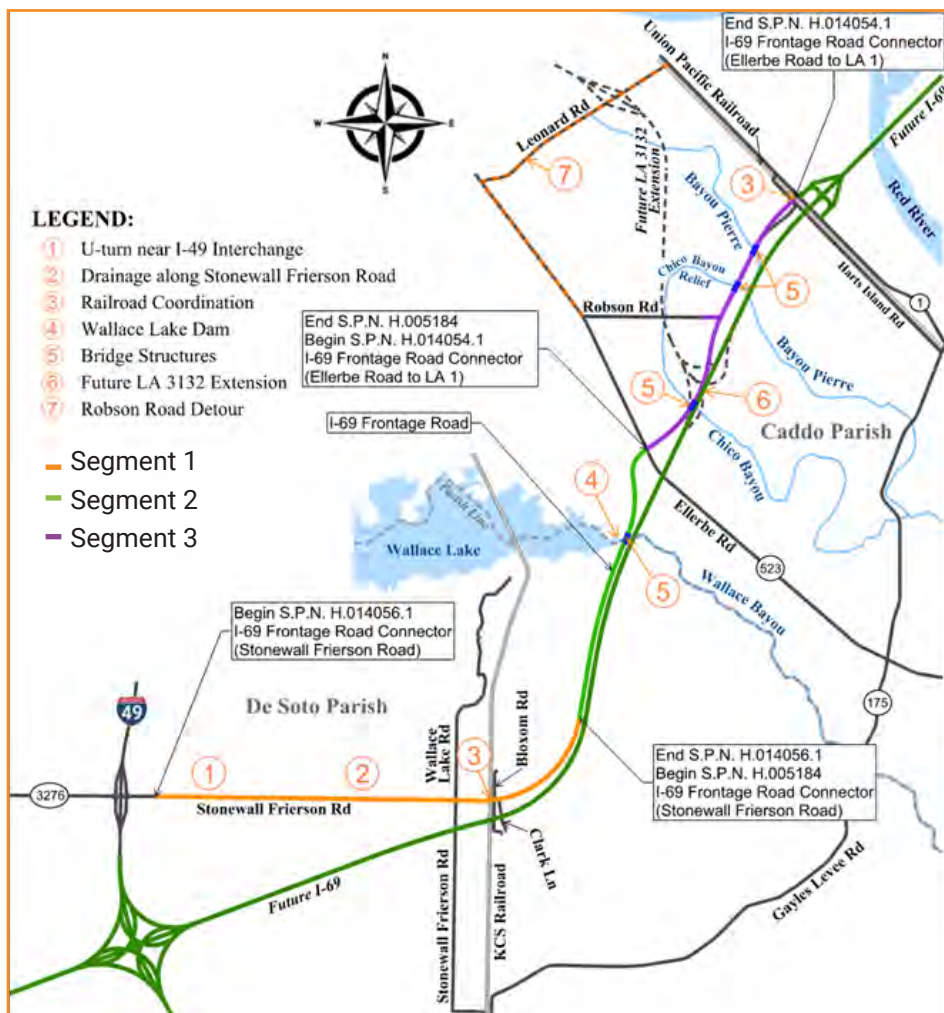
The key map on the following page is used to describe our Team's approach to several key issues identified along the frontage road corridor that will require special attention during the course of the project.

① **U-Turn near I-49 Interchange:** the Stage 0 report for Segment 1 noted that left turns from the northbound exit ramp should be disallowed during the AM peak period and an unsignalized u-turn movement on EB Stonewall Frierson Road with a turn lane accommodating deceleration and 50-ft of storage should be provided just east of the ramp intersection. A bulbout is also shown to be provided on the outside westbound shoulder to accommodate the u-turn movement. Stantec's traffic engineers will review this concept with the latest traffic counts to ensure that this is the best course of action. Stantec is familiar with the design and analysis of u-turn intersections having recently completed final plans for 2 miles of Perkins Road in Baton Rouge, LA where u-turns are required every 1/4 mile.

*** RECENT NEWS ALERT: ***

Crews break ground for heavy-load warehouse at Port of Caddo-Bossier. (KSLA)

Stantec Team believes the frontage road/future I-69 will help improve access to this growing facility



② **Drainage along Stonewall Frierson Road:** during our preparation for this RFP, we learned that there was a flood in 2016 that impacted Stonewall Frierson near the I-49 interchange. Even though the FEMA FIRM maps show this area is in Flood Zone X (areas of 0.2% annual chance of flood), we will investigate the high water elevations from this event by discussing the observed high water elevations with local residents and contacting DeSoto Parish to see if they have any documentation related to the likely storm frequency of the 2016 flood. The Stage 0 for Segment 1 reported that stakeholders along this stretch of Stonewall Frierson Road were in favor of a stormwater drainage system to reduce the roadway footprint near residences. The high water elevation research may be useful when determining the stage elevation for the potential storm drain system in this area, and we will also take these high water elevations into consideration when setting the grade of the roadway. This portion of the existing

roadway will be widened for the frontage road, but it also may need to be raised in some areas to lessen the possibility of road closures due to flooding.

With projected annual average daily traffic (PAADTs) up to 5600 vpd and the potential for this frontage road to be within the control of access boundary of I-69 (freeway), Section 1.3 of DOTD's Hydraulics Manual states that a design storm frequency of 50-years may be justified. Having a passable roadway during a 50-year design storm frequency may also be important because this frontage road will not only provide a route for truck traffic to/from the Port, but it will also serve as an evacuation route for residences in the Wallace Lake area to the east during flood events. **Some residences were stranded during the 2016 flood and did not have access to nearby major roadways from their homes.**

Our team understands the majority of the drainage along the frontage road will be rural in nature, but in areas where the ROW is tight, or where stakeholders have concerns about open ditches, we are prepared to design and detail a subsurface drainage system as we have on so many of our DOTD projects.

③ **Kansas City Southern and Union Pacific Railroad Coordination:** In Segment 1, just west of Bloxum Road, the frontage road will have an at-grade crossing of the Kansas City Southern Railway. A second at-grade crossing is required for the Union Pacific Railroad between Hart's Island Road and LA1 near the end of Segment 3. In addition, the Stage 0 for Segment 3 mentions that the existing railroad crossing at Hart's Island Road and LA 1 will likely be removed. Coordination with both railroad companies early on in the project will be important to determine the railroad's requirements for the at-grade crossings and to establish a deliverable schedule for railroad reviews.

Each company has its own manual of requirements; we have found that an early meeting to define expectations for the design is always beneficial. We anticipate active railroad warning devices and signage will be required at each crossing. Careful consideration of warning devices, signage, and preemption is needed at the LA 1 crossing, where the crossing is sandwiched between two intersections and close to the entrance to the Port of Caddo-Bossier.

On our Nelson Road Bridge Extension Project in Lake Charles (H.005967), **Stantec recently designed the railroad flashers and gates along with a power switch device for a new at-grade railroad crossing at the entrance to the Port of Lake Charles City Docks Facility.** This railway was a private spur, but was required to meet AREMA guidelines. This type of system is a specialty design, but Stantec's Railway Engineers coordinated closely with grade crossing vendors as well as the Port of Lake Charles to determine the requirements. A technical specification was developed and approved for construction of this design feature. Our team has the expertise to deliver the same services for this project should the need arise.



④ **Wallace Lake Dam:** Much of Segment 2 is in DeSoto Parish, but the Wallace Lake Dam and Spillway structure are located just east of the Parish border in Caddo Parish. The potential alignment of the frontage road roughly parallels the earthen dam for Wallace Lake and crosses Wallace Bayou approximately 1,500-ft downstream of the Wallace Lake Dam weir. The United States Army Corps of Engineers (USACE) Vicksburg District has jurisdiction.



Stantec's Water Group currently has a 30+ year working relationship and an active IDIQ with the Vicksburg District. This experience will help us conduct any required hydrologic/hydraulic studies to size the frontage road structure opening and any required channel improvements downstream of the dam, along with any permitting that may be required to the Corp's satisfaction.

During the preparation of this SOQ, we discussed the project with Chase Gartrell, the PM for Section 408 permits for the Red River Area, and Stephen Pfeffer, USACE regulatory permit liaison with DOTD, to gain an understanding of the USACE requirements. According to Mr. Gartrell, **both a 404 permit for wetlands and a 408 permit for potential impacts to the levee and dam area will be required.** The USACE also requires a cultural or environmental permit at times, but in this case they said the NEPA study and ROD may suffice for this area.

While the USACE has jurisdiction over Wallace Lake Dam, **the Parish is responsible for the O&M on Wallace Bayou and Red River Levee.** The permit and all documentation proving that the frontage road and the structure over Wallace Bayou will not have any impacts to the Wallace Lake Dam or the Red River Levee will be submitted to Ali Mustafa at Caddo Parish, who will then forward the permit application to the USACE. **Both permits should be submitted during final plans** when the design has progressed to the point where the plans represent what will be built. The 408 permit must be approved and mitigation must be finalized (paid for) prior to the 404 permit being issued. The USACE does not have any specific requirements about what the analysis should include, but would like to see all calculations and plans with the permit applications to determine impacts to their structures and waterways. USACE does own the property near Wallace Lake Dam and will need to be contacted if ROW is required for the frontage road.

In preparation for this SOQ, multiple FEMA FIRM maps were pieced together for the project to gain an understanding of the flood zones along the route. The Wallace Lake Area is marked Zone AE and is designated as a Special Flood Hazard Area.

In addition to contacting the USACE, we contacted the flood plain managers for both Parishes to see if there are any special requirements for setting grades in

the flood plain. Mr. Ken Ward from Caddo Parish said there were no floodways in the project area and a FEMA model analysis should not be required. He mentioned that Wallace Lake Dam drains to Pierre Bayou and on to Red River. **Caddo Parish requires that construction projects within a Special Flood Hazard Area be designed at an elevation at least 18 inches above the highwater mark.** The Parish has collected high water elevations along the Red River. Some additional research will be performed to determine the high water near Wallace Lake Dam. Interviews with residents along Parish Road 26 and White Springs Road may provide reliable high water information. It is our understanding that residents on White Springs Road were also impacted by the 2016 flooding.

⑤ **Bridge Design:** Bridges over Chico Relief Bayou and Bayou Pierre are expected to be replaced, and new bridges are to be constructed over Wallace Bayou and Chico Bayou to accommodate the new frontage road. Chico Relief Bayou and Bayou Pierre bridges are both prestressed concrete girder bridges supported by concrete pile bents and are not wide enough for the new roadway. The most recent bridge inspection reports will be reviewed along with conducting a field visit to assess the condition of these two bridges and determine if widening the bridges is a viable option. In addition, the existing bridges will need to be load rated for current live loads, and the proposed low-chord elevation of the widened superstructure will be compared to the design high-water elevation for a widening to be considered. The new bridges over Wallace Bayou and Chico Bayou will likely be prestressed concrete girder bridges consisting of LG girders supported by concrete pile bents. Finish grade will be coordinated with LADOTD hydraulics section to ensure an acceptable freeboard is achieved. Design will be in accordance with the current AASHTO Bridge Design Specifications and the latest LADOTD Bridge Design and Evaluation Manual.



⑥ **Future LA 3132 (Inner Loop) Extension** will intersect the proposed I-69 Corridor southwest of the intersection of the new frontage road with existing Robson Road. S.P. No. H.009213 has received a Finding of No Significant Impact (FONSI). When designed, this route will provide connectivity between East Bert Kouns Industrial Loop (LA 526) and LA 523 by extending LA 3132 from its current terminus at LA 523 to the future I-69 Corridor. This will be a 4-lane, high speed, full control of access urban freeway. The Stage 0 appears to show directional flyover ramps at the interchange with I-69. During document reviews early in the project, a more precise location and relevant horizontal and vertical geometry will be studied to ensure that the planned frontage road will work seamlessly with this future connection. From our research of NLCOG's Long Range Transportation Plan, **Northwest Louisiana Mobility 2040**, the Inner Loop Extension construction is expected to begin in 2026.

⑦ **Robson Road Detour:** During the bridge construction along Robson Road, a viable solution may be to close the existing portion of Robson Road that coincides with the frontage road to LA 1. Traffic could be detoured along Ellerbe Road (Parish Road 26) and Leonard Road (Parish Road 22) to LA 1. This option will be discussed with DOTD, the DOTD District, and Caddo Parish as a means to improve safety and schedule during bridge construction, railroad crossing work, and demolition of portions of the existing roadway.

THE STANTEC TEAM

We have assembled a team of transportation professionals for this project with excellent qualifications and a reputation for performing outstanding work for DOTD in surveying and engineering. Three of the firms on our team have offices in the Shreveport area, saving mobilization and direct expense costs, as well as providing strong local ties to stakeholders and agencies in the project area which will streamline the topographic survey, utility locations, engineering field reviews, and coordination. Our team consists of:

STANTEC CONSULTING SERVICES, INC (STANTEC)

We are an engineering consulting firm with more than 25,000 employees and local offices in Baton Rouge and New Orleans. We have been providing transportation engineering services including traffic, roadway, and bridge design for DOTD throughout the State of Louisiana since 1984.

In the last 20 years, we have completed several projects in the northwest corner of the State, including a project to replace twin bridges with a four-cell, 15 ft x15 ft box culvert at the McCain Creek crossing of I-220 in Shreveport; a roundabout to address safety and congestion at the intersection of US 79 Bypass and LA 9 in Homer, LA; bridge inspection and rehabilitation plans for the LA 511 Jimmie Davis Bridge crossing of the Red River in Bossier Parish; and have also been participating in the traffic analysis and alternatives development for the Environmental Document for the I-49 Inner City Connector in Shreveport for the Northwest Louisiana Council of Governments (NLCOG).

LAZENBY & ASSOCIATES, INC. (LAZENBY)

Lazenby provides professional land surveying services to both the public and private sector. Their experienced staff utilizes the latest in field surveying equipment and computer software to develop a detailed, accurate, and attractive final product. They have an outstanding record of providing top quality services by maintaining an adherence to the highest professional standards and ideals. It is Lazenby's goal to build relationships and partnerships that will last a lifetime by providing quality surveying deliverables and exceptional client service. Lazenby is also well respected as a transportation engineering firm and has successfully completed numerous projects for DOTD and many local municipalities.

Lazenby's office in West Monroe is relatively close to the project site. **They will serve as the lead survey firm** for this approximately 11-mile project responsible for the setting control for the entire project, 60% of the topographic survey, and survey quality control.

NTB ASSOCIATES, INC. (NTBA)

NTBA have performed topographic surveying and SUE services for DOTD on projects of similar magnitude along I-20 in Shreveport, as well as along I-10 in Baton Rouge. NTBA has an office in Shreveport and one in Baton Rouge and can provide as many as six crews to collect topographic survey for this project.

NTBA is very familiar with the I-69 Frontage Road project corridor. In 2022, they established control and performed topographic and property surveys, as well as located all utilities, for CenterPoint Energy near the eastern tie-in point along LA 1 close to Doug Attaway Blvd. at the Caddo-Bossier Port. This area is part of State Project No. H.014054 (Segment 3) of the Frontage Road project. This prior knowledge of a major portion of the project will enable NTBA to begin field work on the project immediately upon Notice to Proceed. **NTBA will be responsible for 40% of the topographic survey, all of the subsurface utility engineering, and quality control of these surveys.**

EJES, INC. (EJES)

Founded in 1997, EJES has emerged as a highly qualified competitor in the A/E marketplace with DBE certification. Their project LA 6 Business, Front Street Transportation Enhancement Project in Natchitoches, LA was an award-winning project recognized by DOTD. EJES will perform drainage and roadway design on this project.

GEOENGINEERS, INC. (GEOENGINEERS)

GeoEngineers has been a trusted partner for geotechnical engineering services to state Departments of Transportation across the country and sought-after teaming partners for complex projects. GeoEngineers brings a tenured, DOTD-experienced staff to this project with specialized in-house equipment, capacity to complete tasks at multiple sites, and a unified commitment to safety so that their team returns "Home Safe Every Day".

WORK FLOW AND PROJECT SCHEDULE

PROJECT MANAGEMENT

As prime consultant, Stantec will be responsible for the project management described in the RFP including MS Project schedules updated monthly, risk analysis for both schedule and costs, a conceptual project cost estimate within 30 days of NTP, and updates to the cost estimate at milestone submittals and whenever requested by the project manager. Stantec will attend and document all project design/production meetings, perform site visit(s) as required, assemble/study existing available data for the project, and manage the quality and progression of the work of the sub-consultants.

ENVIRONMENTAL & PERMITTING ASSISTANCE (AS NEEDED)

Due to the amount of time that has passed since the Record of Decision (ROD) for I-69 Section of Independent Utility 15, which was signed August 28, 2014, and the additional frontage road length that will be added to this project beyond what was approved in the ROD, a reevaluation of the environmental document including updates to the document is likely.

Although the RFQ does not specifically address the need for an environmental reevaluation, the **Stantec team will be ready to assist DOTD with additional traffic analysis, exhibits, and cost estimates should they be needed to obtain environmental clearance.** We understand that final plans cannot commence until the environmental has been cleared. We have included Scott Hoffeld, Brian Newman, and Elton Muzney on our organization chart to assist with the environmental clearance and permitting on the project if needed. Elton was selected as a resource because he has experience with the **red-cockaded woodpecker**, which was identified as a **potential threatened and endangered species** in the FEIS for Section 15 of the I-69 Corridor.

PRELIMINARY INVESTIGATIONS & SURVEY

Since the project corridor has essentially been established, once a study of existing alignments, constraints, and environmental commitments has been made our team could proceed with the topographic survey which will be used during preliminary plans to determine the final horizontal and vertical frontage road alignment. Field reviews, flood plain and highwater research, and utility locations could all be performed simultaneously with the survey. During this time, we anticipate conducting a site visit to assess the existing conditions of the bridge structures to be replaced and review locations where new bridges are planned to be constructed. This will help estimate span lengths which will direct geotechnical investigations on the number and locations of borings.

As lead surveyor, Lazenby will initiate the survey after NTP by contacting landowners for permission to access their property and will develop a **survey control sketch** for submittal to DOTD for review and approval prior to performing the detailed topographic survey. The control sketch will include primary control points established by static GPS occupations and secondary control points established by GPS traverse and conventional traverse. **Lazenby will set control for the entire project to ensure consistency between survey collected by different crews from Lazenby and NTBA.**

Detailed topographic survey data will be collected using GPS and conventional survey methods by field crews familiar with DOTD **survey feature codes** to properly describe the collected survey data. Terrestrial, mobile, and UAV scanning to collect a **3D lidar point cloud** may be utilized in certain regions of the corridor such as existing bridge structures or hard surface roadway and parking areas. Utilizing these lidar collection methods allows for less disruption to motorists along roadways with high operational speeds and heavy traffic volumes and increases safety of survey crews working there by staying clear of the roadway. Electronic processing of all survey data collected is completed with Trimble Business Center, TopoDOT, MicroStation and InRoads Survey to produce a final CAD drawing of the topo survey to be used for design of corridor improvements. Survey data file deliverables **will meet requirements of DOTD Software and Deliverable Standards for Electronic Plans.**

A **survey alignment** for each existing roadway will be established using regression analysis to determine the best-fit alignment of topo collected along

roadway. The new frontage road alignment will be staked out for topo survey collection along the proposed corridor. The project will be broken into several sections and surveyed by several crews so that a reasonable schedule can be presented for this 11-mile long project. Each crew will be assigned its own point range in which to store shots and clear lines of separation will be defined so that overlap does not occur. A **digital terrain model** will be established using all surface features collected with the topo. Survey alignments and surface model will be delivered for design of corridor improvements. It is our understanding that existing drainage structures and water bodies in the corridor will be collected, but an existing drainage map will not be required.

NTBA will provide **SUE services** for the project. A list of utility owners will be identified and provided using LA One-Call and/or SUE services if necessary. Since not all utilities are members of LA One-Call, we will attempt to contact local municipalities, water companies, etc. to determine the presence of additional utilities that may not be listed by LA One-Call. Due diligence will be exercised in an attempt to make contact with each owner by phone and/or by email to coordinate the marking of owner's utility so the marks can be surveyed in the field and utility shown on the topo. If utility owner does not mark their utility for locating on survey, documentation will be included in survey deliverables. A list of all known utility owners will be delivered with topo survey.

All Lazenby survey crew personnel have obtained the required **ATSSA Flagger and Traffic Control Technician** work zone certifications and the party chief of each crew has **ATSSA Traffic Control Supervisor** certification.

GEOTECHNICAL DATA, ANALYSIS AND REPORTING

GeoEngineers will perform a geotechnical investigation consisting of soil borings, laboratory testing, soil classification, site characterization, and soil boring logs. In addition to the referenced ASTM designations, we plan to follow the FHWA Geotechnical Engineering Circular No. 5 (GEC 5) for best practices pertaining to geotechnical site characterization. Water level readings will be made in all soil borings. Final coordinates and elevations will be surveyed. Furthermore, a lab extrusion log will be made, as applicable, with pocket penetrometer readings.

The following geotechnical design elements are expected for this project: driven piles (or shafts, if needed); roadway and approach embankments; earth retaining structures (if needed).

We will use the load and resistance factor design (LRFD) method to set pile lengths. Subsurface data for each bridge site will be evaluated and divided into design "sites" based on the variability of the data. We will follow GEC 5 for best practices on selecting sites for LRFD design and the resistance factors listed in the advertisement.

At proposed embankments, we plan to perform analyses to estimate slope stability and the total magnitude of consolidation settlement, time-rate of settlement, and effect of settlement on adjacent structures, utilities, or improvements. The goal of the analyses will be to limit the post-construction

settlement to 1 inch or less under new embankments and earth retaining structures.

We will submit the following deliverables during the course of the geotechnical investigation and to follow all the guidelines/requirements as presented in the RFQ:

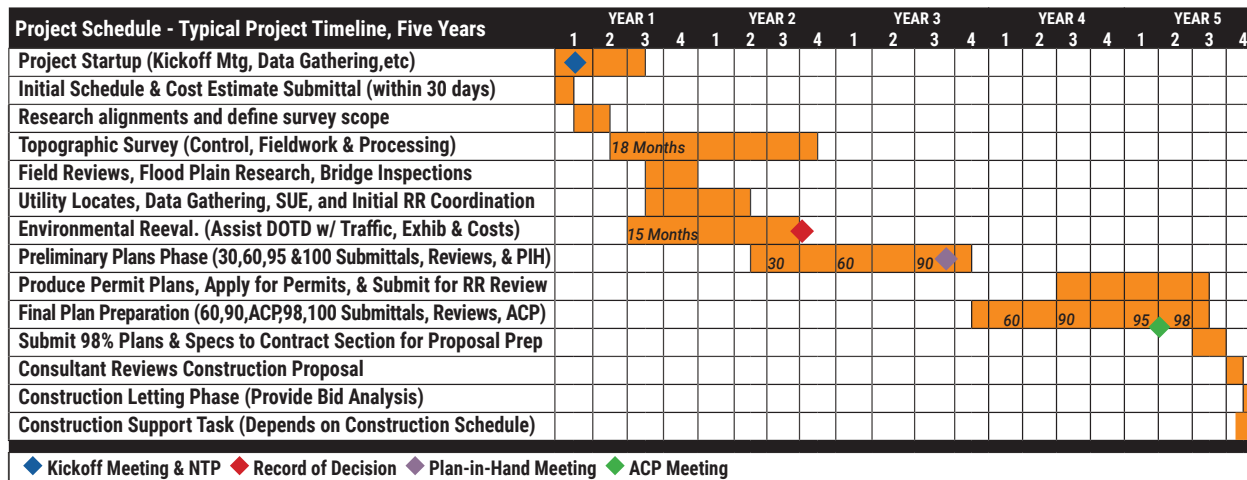
- Geotechnical Design Criteria Report (w/in 30 days of the project being awarded)
- Geotechnical Investigation Plan (Prior to beginning field work)
- Geotechnical Data Report
- Geotechnical Interpretation Report (Design)- Soil Boring Logs

PRELIMINARY AND FINAL ROADWAY, BRIDGE AND TRAFFIC PLANS

Preliminary bridge, roadway and traffic analyses and construction plans will be performed primarily by Stantec, with assistance from EJES and Lazenby for some of the drainage and roadway engineering. The roadway and drainage plans will be in accordance with DOTD’s Roadway Design Procedures and Details Manual, the Hydraulics Manual, and all applicable AASHTO design guidelines. Bridge design will comply with the latest AASHTO LRFD Bridge Design Specifications, as well as DOTD’s Bridge Design Engineering Manual.

The typical milestone submittals for Preliminary plans include 30%, 60%, 95% and 100% plans and will include plan submissions, cost estimates, milestone checklists, and QA/QC certifications submitted through ProjectWise for DOTD’s review. The 95% preliminary plans will be submitted to DOTD for distribution at least 21 days prior to the Plan-in-Hand meeting. Subsequent to the Plan-in-Hand inspection, our team will incorporate changes in the plans, as needed, to reflect agreements reached and comments addressed. **At the conclusion of preliminary plans, the design is considered to have progressed enough to have defined the geometry and scope of the improvement, the right-of-way taking needs, and all major quantities on the project.** At this stage all required design waivers and exceptions should be approved and responses will be made to any value engineering recommendations.

The Stantec team will not proceed to final plans until the environmental document has been cleared by DOTD and FHWA. Following DOTD’s NTP for Final Plans, our team will proceed with finalizing the plan details needed for construction including sheets not produced during preliminary plans like pavement marking layout, joint/graphical grade details (if required), the **completed Level 2 TMP and the traffic control plans**, traffic signal plans, final drainage design, and as-designed structural analysis of the load-carrying capacity of the bridges. All quantity calculations, pay item selection and summary of quantity tables will also be finalized. Submittals will be made through ProjectWise at 60%, 95%, 98% and Final Plans. The 98% plans and specifications will be stamped and signed and delivered to DOTD’s Contract’s Section for



preparation of the construction proposal. Stantec will review the construction proposal provided by DOTD for completeness.

The I-69 Frontage Road project **timeline is considered typical** and has been shown as 5 years in the RFQ. The above schedule summarizes our understanding of the progression of work during the 5-year design contract. Line items showing milestone submittals include timeframes for Quality Control (in accordance with Stantec’s Quality Management Plan included in Section 21) and Plan Reviews by DOTD and other invited stakeholders. If at any time DOTD decides that the schedule needs to be accelerated, **our team has the depth of bench to ramp up for schedule compressions.**

CLOSING

Our diverse and highly qualified team has **local resources and a wealth of experience** that can only benefit DOTD and provide the successful completion of this project. By including two firms for survey, our team will be able to accelerate if necessary and provide DOTD with added flexibility. Each firm has multiple capabilities and is ready and able to assist and streamline the design process. Lazenby, for example, can assist with Roadway design or ROW mapping should the need arise, and EJES will likely perform drainage and roadway design while also capable of assisting with structures if needed. NTBA will wear two hats with Survey and SUE services, providing more reliable locates on utilities to help us plan around costly utility relocations. **Our goal on this project is to thoroughly and efficiently complete our tasks and to assist DOTD with whatever challenges may arise.**

From the high caliber of our personnel to our in-depth familiarity with DOTD’s standards, processes and expectations – we believe this contract would be a way to further our decades-long relationship with DOTD, showcase the talents of our dedicated staff, and **provide improved access for the Port of Caddo-Bossier and the local community.** Thank you for reviewing our qualifications and we look forward to continuing our successful working relationship!

19. **Workload:**

FIRM(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(S)*	Contract Number and State Project Number	PROJECT NAME	REMAINING UNPAID BALANCE**
Stantec Consulting Services Inc.	Road	4400024629 H.005967.6	Nelson Road Ext. and Bridge [Calcasieu Parish, Louisiana]; Striping Pln. Changes	\$4,610
		440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Geometric Design/Analysis	\$32,463
		H.011670	Loyola Dr./I-10 Interchange to New Airport Terminal Design Build (Sub to Gilchrist Co., LLC) [Jefferson Parish]; Roadway as-built	\$87,029
		4400024461 H.012685.5	LA 385: Ryan Street Intersection Improvements [Calcasieu Parish]; Roadway Design	\$279,847
		4400022901 H.011094.5	LA 3094: Hearne Ave. Bridge: KCS RR Overpass (HBI) [Caddo Parish]; Roadway	\$321,945
Stantec Consulting Services Inc.	Bridge	700-99-0430	Retainer Contract for Bridge Preservation [Statewide, Louisiana]; T.O. 701-65-1018 Bayou Tech Bridge	\$1,053
		440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Structure & Bridge	\$411,193
		H.011670	Loyola Dr./I-10 Interchange to New Airport Terminal Design Build (Sub to Gilchrist Co., LLC) [Jefferson Parish]; Bridge as-built	\$38,395
		4400022901 H.011094.5	LA 3094: Hearne Ave. Bridge: KCS RR Overpass (HBI) [Caddo Parish]; Bridge	\$376,058
Stantec Consulting Services Inc.	Traffic/ITS	440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Traffic Engineering	\$93,806
		440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; ITS	\$16,585
		4400020058 H.013710.6	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; I-10/US-61 to Laplace ITS Deployment [Ascension, St. James & St. John Parishes]	\$8,315
		4400020058 H.002424.5	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; LA 70: Sunshine Bridge - LA 22 [St. James & Ascension Parishes]	\$427
		4400020058 H.015136	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; Statewide ITS Architecture Update [Statewide]	\$31,980
		4400020058 H.013261.6	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; I-110 ITS Deployment [EBR Parish]	\$23,537
		4400020058 H.011152.6	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; I-12: US 190 to LA 59 [St. Tammany Parish]	\$35,513

Stantec Consulting Services Inc.	Traffic, ITS	4400020058 H.013866.6	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; I-12: LA 21 to US 190 [St. Tammany Parish]	\$29,610
		4400020058 H.003047.6	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; I-10: Pecue Lane/I-10 Interchange Phase III [EBR Parish]	\$36,603
		4400020058 H.002424.6	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; LA 70: Sunshine Bridge - LA 22 [St. James & Ascension Parishes]	\$23,102
		4400020058 H.015137.1	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; Bonnet Carre ITS Upgrades [St. John the Baptist, St. Charles & Jefferson Parishes]	\$118,672
		4400020058, T.O. 16	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; I-10 WBR Queue Warning System [Iberville & WBR Parishes]	\$214,910
		4400020058, T.O. 17	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; New Orleans Regional Arch Updates [Orleans, St. Tammany & Tangipahoa Parishes]	\$84,344
		4400020058, T.O. 18	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; Shreveport Phase 2b ITS SEA Updates [Caddo Parish]	\$76,124
		4400020058, T.O. 19	IDIQ Contract for Intelligent Transportation Systems (ITS) Design and Implementation Services; Monroe Phase 3 SEA [Ouachita Parish]	\$90,327
		4400024461 H.012685.5	LA 385: Ryan Street Intersection Improvements [Calcasieu Parish]; Traffic Study; Signal Design	\$135,827
Stantec Consulting Services Inc.	CE&I/OV	4400024629 H.005967.6	Nelson Road Ext. and Bridge [Calcasieu Parish, Louisiana]; CE&I and Construction Support	\$481,401
		H.011670	Loyola Dr./I-10 Interchange to New Airport Terminal Design Build (Sub to Gilchrist Co., LLC) [Jefferson Parish]; CE&I and Construction Support	\$0
Stantec Consulting Services Inc.	Planning	440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Prog. Mgmt.; Context Sensitive Design Process; Impl. Strategies	\$1,094,618
Stantec Consulting Services Inc.	Survey	440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Survey	\$22,731
Stantec Consulting Services Inc.	Right-of-Way	440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; ROW Acquisition	\$71,883
		H.011670	State of LA, DOTD versus 2845 Loyola Blvd., LLC ET AL [Jefferson Parish]; Right-of-Way Expert Witness	\$6,050
Stantec Consulting Services Inc.	Other (Lighting)	4400024629 H.005967.6	Nelson Road Ext. and Bridge [Calcasieu Parish, Louisiana]; Roadway & Nav. Lighting	\$44,598
		440004128 H.004273.5	Lafayette Regional Airport to I-10/I-49/US 167 Interchange [Lafayette Parish]; Public Relations/Comm.; Lighting; Aviation	\$77,278
		4400011353 S. P. No. H.014302.6	IDIQ Contract for Electrical Services (Sub to Buchart Horn, Inc.); US 165 Roadway Lighting [Ouachita Parish]; Lighting	\$19,301

Stantec Consulting Services Inc.	Other (Lighting)	H.011670	Loyola Dr./I-10 Interchange to New Airport Terminal Design Build (Sub to Gilchrist Co., LLC) [Jefferson Parish]; Lighting	38,409
		4400020064 H.014286.5	IDIQ Contract for Electrical Services; I-10: LA 26 (Jennings) Interchange Lighting [Jefferson Davis Parish]	\$297
		4400020064 H.014272.5	IDIQ Contract for Electrical Services; I-10: LA 97 (Jennings) Interchange Lighting [Jefferson Davis Parish]	\$19,263
		4400020064 H.014287.5	IDIQ Contract for Electrical Services; I-10: LA 99 (Welsh) Interchange Lighting [Jefferson Davis Parish]	\$53,747
		4400020064 H.014286.6	IDIQ Contract for Electrical Services; I-10: LA 26 (Jennings) Interchange Lighting [Jefferson Davis Parish]	\$136,513
		44-04761 H.004957.5	I-12 to Bush Corridor, LA 3241: I-12 to LA 36 (Sub to Evans-Graves Engineering, Inc.) [St. Tammany Parish]; I-12/LA 434 Lighting Project	\$200,674
Stantec Consulting Services Inc.	Other (C&AV)	44-1792 H.012845.1	IDIQ Contract for Intelligent Transportation Systems (ITS) System Design, Integration and System Verification Services; Connected & Autonomous Vehicles - Team Support [Statewide]	\$327,669
Stantec Consulting Services Inc.	Environmental	4400023972 H.014197.5	IDIQ Contract for Cultural Resources; Phase I Cultural Resources Survey [Tensas Parish] <i>Waiting on NTP for Task Order</i>	\$0
Lazenby & Associates, Inc.	Bridge	4400025025 (L&A, Inc. 22E048.00)	Infrastructure Investing & Jobs Act (IIJA) Off-System Bridge Program – District 05 (13 Off-System Bridge Structures) (12% Complete)	\$1,245,537
Lazenby & Associates, Inc.	Road	4400010428 H.004774.5 (L&A, Inc. 17E051.00)	Kansas Lane-Garrett Road Connector & I-20 Improvements, Ouachita Parish (Road Design-Urban & Road Design-Controlled) (98% Complete)	\$64,158
Lazenby & Associates, Inc.	Survey	4400015236 (L&A, Inc. 18S053.00)	IDIQ Contract for Topographic Surveys – Statewide (District 04, 05, 08 & 58) No Active Task Orders At This Time	\$0
Lazenby & Associates, Inc.	Survey	4400017710 (L&A, Inc. 19S056.00)	IDIQ Contract for Topographic Surveys – Statewide No Active Task Orders At This Time	\$0
Lazenby & Associates, Inc.	Survey	4400019714, T.O. #2 (L&A, Inc. 20S038.00)	IDIQ Contract for Hydrographic Surveys – Statewide (Districts 04, 05, 08 & 58) (69% Complete)	\$13,325
NTB Associates, Inc.	Survey	4400019338; Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Sigma)	\$0
NTB Associates, Inc.	Right-of-Way	4400019338; Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Sigma)	\$130,349
NTB Associates, Inc.	Survey	4400019337; Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	\$0
NTB Associates, Inc.	Right-of-Way	4400019337; Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	\$101,221
NTB Associates, Inc.	Survey	4400017067; LWI T.O. 3	Louisiana Watershed Initiative (LWI) Modeling Contract – Region 1 (Sub to Atkins)	\$10,575

NTB Associates, Inc.	Survey	4400019715 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 9 – Fall Bridges	\$92,640
NTB Associates, Inc.	Right-of-Way	4400025041	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program	\$10,170
NTB Associates, Inc.	Survey	4400026587; H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	\$0
NTB Associates, Inc.	Other (SUE)	4400026587; H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	\$223,750
NTB Associates, Inc.	Right-of-Way	4400026587; H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.)	\$30,000
GeoEngineers, Inc.	Geotech	H.004791	P3 Belle Chasse Bridge & Tunnel	\$45,064
GeoEngineers, Inc.	Geotech	H.011670	Loyola Dr/I-10 Interchange	\$2,000
EJES, Inc.	Bridge	4400025024 H.015336	Infrastructure Investment and Jobs Act Off System Bridge Program District 04	\$225,000
EJES, Inc.	Bridge	4400025025 H.015337	Infrastructure Investment and Jobs Act Off System Bridge Program District 05	\$186,000

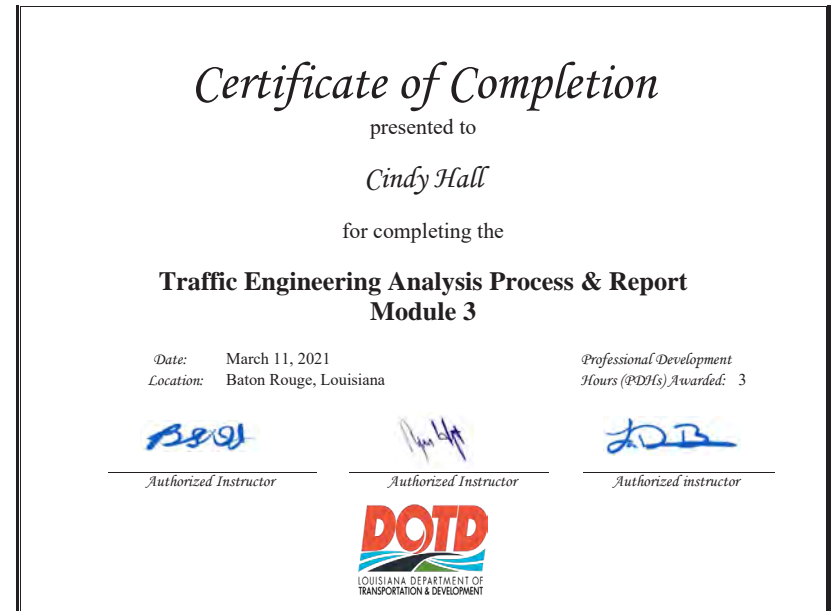
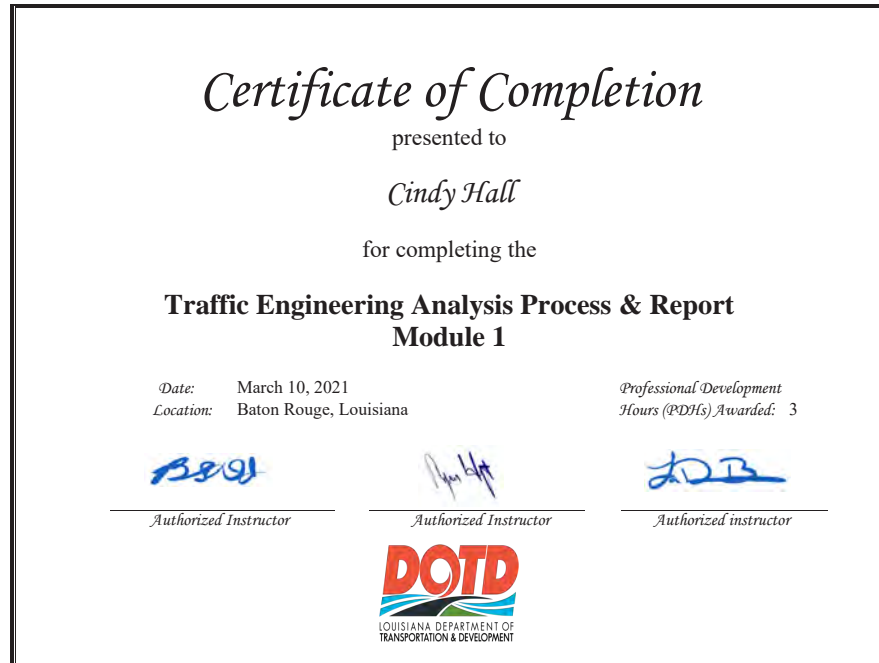
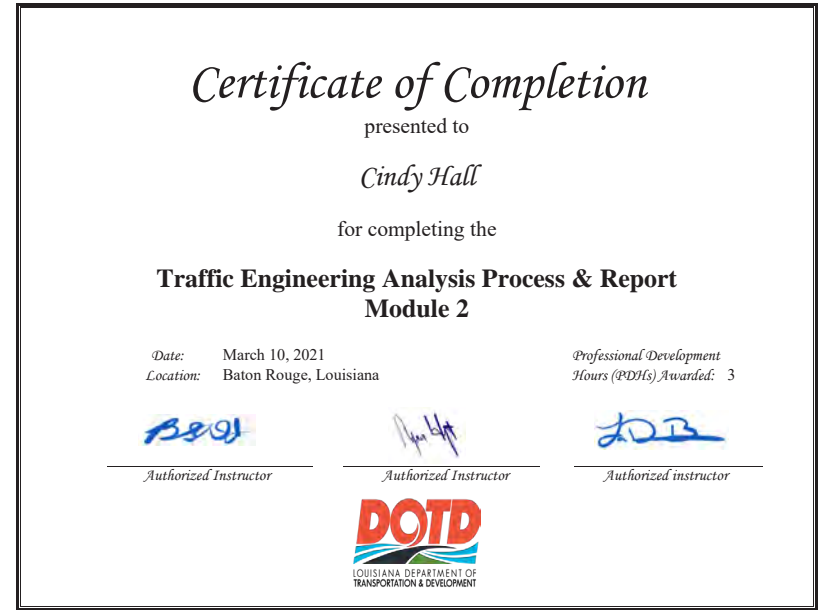
(Add rows as needed)

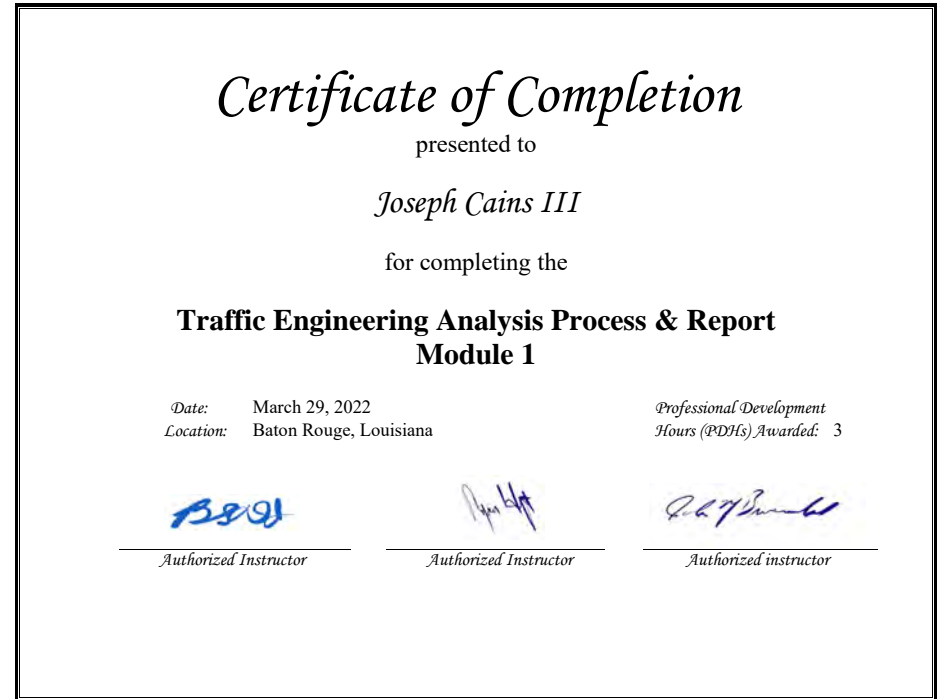
DO NOT SUM

*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 (please specify). 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. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, please place N/A in the remaining unpaid balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE “REMAINING UNPAID BALANCE” COLUMN BLANK IS NOT ACCEPTABLE.

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







National Highway Institute
Certificate of Training



Brian Johnson

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Louisiana Department of Transportation & Development

Date: April 20-22, 2021

Hours of Instruction: 18

Location: Virtual Delivery, LA

Calen A. MacDougal, P.E.
Digitally signed by Calen A. MacDougal, P.E.
 Date: 2021.04.27 13:47:37 -0400

Allison H. Landry

Instructor

Local Coordinator

Randall Leonard, P.E.
Digitally signed by Randall Leonard, P.E.
 Date: 2021.04.22 14:23:51 -0500

Thomas Harman

Instructor

Thomas Harman, Director
 National Highway Institute

Certificate of Completion

presented to

Joseph Cains III

for completing the

**Traffic Engineering Analysis Process & Report
 Module 3**

Date: March 30, 2022

Professional Development

Location: Baton Rouge, Louisiana

Hours (PDHs) Awarded: 3

B. J. O'Neil

Authorized Instructor

Joseph Cains III

Authorized Instructor

Robert P. Powell

Authorized instructor



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joseph Cains III

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

6/24/2022 to 6/24/2026
 Training Valid Through

Roger B. Miller
 Director of Training

Baton Rouge, LA
 Location

Allen Tinsler
 President, CEO

ATSSA provides training and certification for neither constitutes employment by ATSSA.



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Nick Prudhomme

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

6/24/2022 to 6/24/2026
 Training Valid Through

Roger B. Miller
 Director of Training

Baton Rouge, LA
 Location

Allen Tinsler
 President, CEO

ATSSA provides training and certification for neither constitutes employment by ATSSA.









National Highway Institute Certificate of Training



KUNAL MALPANI

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

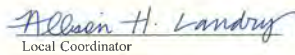
LA DOTD/LTRC

Date: January 7-9, 2019

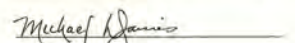
Hours of Instruction: 18

Location: Baton Rouge, LA


Instructor


Local Coordinator


Instructor


Michael Davies, Director
National Highway Institute



PROOF OF TRAINING


THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joseph Lefante
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/24/2022 to 6/24/2026
Training Valid Through

Baton Rouge, LA
Location


Director of Training


President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



Transportation Professional Certification Board Inc.

certifies that

Joseph Michael Lefante

*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 3560 issued in Washington, D.C., U.S.A.

November 20, 2013


Chair




Executive Director

Certificate of Completion

presented to

Joey Lefante


for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2


Authorized Instructor


Authorized Instructor



Authorized instructor





Certificate of Completion
presented to
Joey Lefante
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**


Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3


Authorized Instructor


Authorized Instructor


Authorized instructor


LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

Transportation Professional Certification Board Inc.
certifies that
Stephen A. Mensah
*has met all of the requirements established by the Certification Board
to use the title of*
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3960 issued in Washington, D.C. U.S.A.*
November 18, 2015


Chair






Executive Director

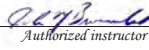
Certificate of Completion
presented to
Joey Lefante
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**


Date: October 18, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3


Authorized Instructor


Authorized Instructor



Authorized instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT


Certificate of Completion
presented to
Stephen Mensah
for completing the
**Traffic Engineering Analysis Process & Report
Module 1**


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

Professional Development
Hours (PDHs) Awarded: 2.5


Authorized Instructor


Authorized Instructor

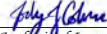

Authorized instructor


LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

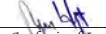
Certificate of Completion
presented to
Stephen Mensah
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**

Date: August 6, 2018
Location: Baton Rouge, Louisiana

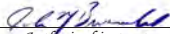
Professional Development
Hours (PDHs) Awarded: 3




 Authorized Instructor



 Authorized Instructor



 Authorized instructor


 LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Stephen Mensah
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/24/2022 to 6/24/2026
Training Valid Through

Baton Rouge, LA
Location


 Director of Training


 President, CEO


ATSSA provides training and certification for similar construction employment by ATSSA.


American Traffic Safety Services Association ATSSA.com

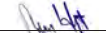
Certificate of Completion
presented to
Stephen Mensah
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**

Date: February 28, 2019
Location: Baton Rouge, Louisiana


Professional Development
Hours (PDHs) Awarded: 3




 Authorized Instructor



 Authorized Instructor



 Authorized instructor


 LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

Transportation Professional Certification Board Inc.
certifies that
Matthew Jared Davis
*has met all of the requirements established by the Certification Board
to use the title of*
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3914 issued in Washington, D.C. U.S.A.*
July 21, 2015


 Chair




 Executive Director

Certificate of Completion

presented to

Matt Davis

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 2

John J. Colborne
Authorized Instructor

John Hoff
Authorized Instructor

Scott Hoffeld
Authorized instructor



Certificate of Completion

presented to

Matt Davis

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: February 26, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

John J. Colborne
Authorized Instructor

John Hoff
Authorized Instructor

Scott Hoffeld
Authorized instructor



Certificate of Completion

presented to

Matt Davis

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

John J. Colborne
Authorized Instructor

John Hoff
Authorized Instructor

Scott Hoffeld
Authorized instructor



Certificate of Completion

presented to

Scott Hoffeld

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: March 10, 2021
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

B. B. B.
Authorized Instructor


John Hoff
Authorized Instructor

Scott Hoffeld
Authorized instructor




Certificate of Completion
presented to
Scott Hoffeld
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**


Date: March 10, 2021 *Professional Development*
Location: Baton Rouge, Louisiana *Hours (PDHs) Awarded:* 3




Authorized Instructor



Authorized Instructor



Authorized instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Paul D Fryer
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

7/3/2020 to 7/3/2020
Date

Baton Rouge, LA
Location



Vice President of Education and Technical Services



President, CEO


ATSSA provides training and certification but neither constitutes employment by ATSSA.




American Traffic Safety Services Association ATSSA.com

Certificate of Completion
presented to
Scott Hoffeld
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**


Date: March 11, 2021 *Professional Development*
Location: Baton Rouge, Louisiana *Hours (PDHs) Awarded:* 3




Authorized Instructor



Authorized Instructor



Authorized instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jerry G Lazenby
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

7/3/2020 to 7/3/2020
Date

Baton Rouge, LA
Location



Vice President of Education and Technical Services

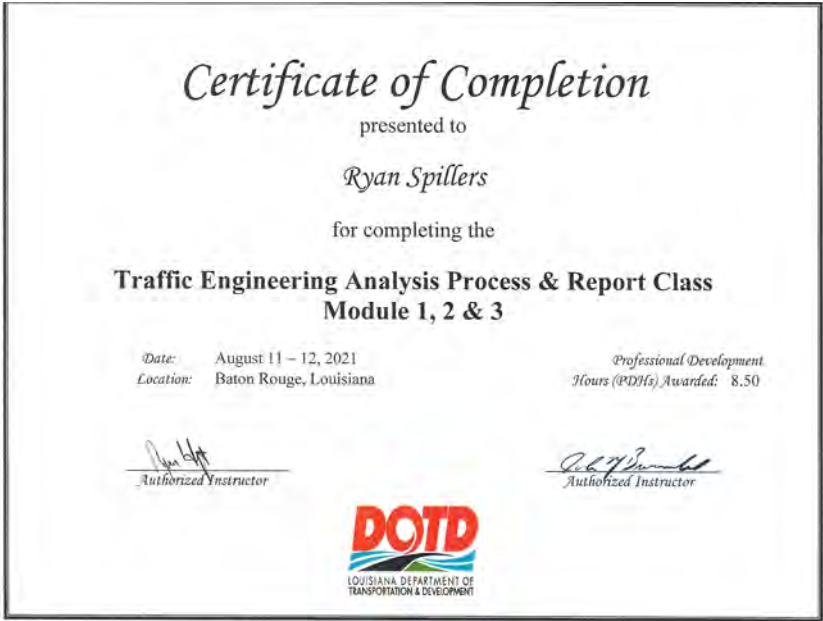


President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.



American Traffic Safety Services Association ATSSA.com





SAM.GOV
Entity Workspace Results 3 Total Results

N T B Associates Inc		
Unique Entity ID: PNS1EJYESPB1	Doing Business As:	Expiration Date:
CAGE/NCAGE: GRAT9	Physical Address:	Oct 07, 2023
Entity Status: Active Registration	100 BOMBER BLVD STE 2 MOUNTAIN HOME , AR 72653-4626 USA	Purpose of Registration: All Awards
NTB ASSOCIATES INC		
Unique Entity ID: E8PTT4ZELXE3	Doing Business As:	Expiration Date:
CAGE/NCAGE: INBV8	Physical Address:	Oct 07, 2023
Entity Status: Active Registration	500D PLEASANT VALLEY DR STE 102 LITTLE ROCK , AR 72227-2151 USA	Purpose of Registration: All Awards
N T B ASSOCIATES INC		
Unique Entity ID: DL8ELAPGQQ41	Doing Business As:	Expiration Date:
CAGE/NCAGE: 1PDD3	Physical Address:	Oct 17, 2023
Entity Status: Active Registration	525 LOUISIANA AVE STE 200 SHREVEPORT , LA 71101-5449 USA	Purpose of Registration: All Awards

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. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.

Please see attached QA/QC Plan on the following pages.

Quality Management Plan

CONTRACT NO. 4400027735

**STATE PROJECT NOS. H.005184, H.014054, H.014056
I-69 FRONTAGE ROAD AND CONNECTORS**

Stantec Project No.: TBD



Cindy Hall, P.E. – Project Manager

Gary Heitman, P.E. – Principal-in-Charge

Document Date: October 3, 2023

Table of Contents

FOREWORD	III
REVISION SUMMARY	V
REQUIRED READING FORM	VI
SECTION 1.UNDERSTANDING OUR ROLE	7
1.1 STANTEC PHILOSOPHY AND POLICY ON QUALITY (ISO 9001 5.1, 5.2 AND 5.3).....	7
1.2 QUALITY MANAGEMENT PLAN PHILOSOPHY.....	7
<hr/>	
STANTEC QUALITY CONTROL/QUALITY ASSURANCE CONCEPTS & DEFINITIONS.....	9
SECTION 2. . QUALIFICATIONS AND RESPONSIBILITIES OF STANTEC LEADERSHIP AND STAFF	12
SECTION 3.DESCRPTION OF THE QC, QA & IR PROCESSES	16
3.1 QUALITY MANAGEMENT PLAN.....	16
3.1.1 Project Meetings.....	16
3.1.2 Process Control.....	16
3.2 QUALITY CONTROL.....	17
3.2.1 Five Step Procedure.....	18
3.2.2 Quality Control (LADOTD Bridge Requirements).....	18
3.3 QUALITY ASSURANCE	19
3.4 INDEPENDENT REVIEW AND CONSTRUCTABILITY REVIEW	19
3.4.1 Document and Data Control	20
3.4.2 Control of Sub-Contracted Work.....	20
3.4.3 Control and Correction of Non-Conforming Work	20
3.5 PROJECT DESCRIPTION AND SCOPE	20
3.5.1 Disciplines/Tasks.....	20
3.5.2 Specifications and Standards	Error! Bookmark not defined.
3.5.3 Project Schedule	Error! Bookmark not defined.
<hr/>	
SECTION 4.QUALITY MANAGEMENT (QC/QA) PERSONNEL.....	21
APPENDIX A20: GUIDELINES FOR DOCUMENT PREPARATION.....	22
APPENDIX B: GUIDELINES FOR PROCESSES.....	32
APPENDIX C: QC CHECKLIST & COMMENT FORMS.....	33
APPENDIX D: QA CHECKLIST & COMMENT FORMS.....	36
APPENDIX E: INDEPENDENT REVIEW & COMMENT FORM.....	38
APPENDIX F: LADOTD ROAD DESIGN QC/QA PLAN	40

F1: 30% PRELIMINARY ROADWAY PLANS QA CHECKLIST41

F2: 60% PRELIMINARY ROADWAY PLANS QA CHECKLIST42

F3: 90% PRELIMINARY ROADWAY PLANS QA CHECKLIST44

F4: ACP FINAL ROADWAY PLANS QA CHECKLIST45

APPENDIX G: LADOTD BRIDGE DESIGN QC/QA PLAN.....46

G1: LADOTD BRIDGE DESIGN (DESIGN CRITERIA CHECKLIST)47

G2: LADOTD BRIDGE DESIGN (FINAL CALCULATION BOOK CHECKLIST).....49

G3: LADOTD BRIDGE DESIGN (QA INFORMATION PACKET CHECKLIST).....50

G4: LADOTD BRIDGE DESIGN (QC/QA CERTIFICATION)51

G5: LADOTD BRIDGE DESIGN (PEER REVIEW RESOLUTION AGREEMENT)53

G6: LADOTD BRIDGE DESIGN (CONSULTANT PROJECT BRIDGE DESIGN KICK-OFF MEETING AGENDA CHECKLIST).....54

APPENDIX H: NON-CONFORMANCE REPORT FORM.....55

Foreword

Stantec recognizes the importance of quality for the I-69 Frontage Road Contract. We are committed to developing, implementing, and adhering to a detailed Quality Management Plan for all services provided as part of the Project. In addition, since the Project has significant road and bridge components, our team is committed to the principles dictated in the LADOTD, Road Design Section “Construction Plans – Quality Control / Quality Assurance Manual” and the LADOTD Bridge Design Section, “Policy on Quality Control and Quality Assurance’s Construction Plans”.

This Quality Management Plan (**QMP**) is a “living document”. As such, it will periodically be reviewed for performance and amended as necessary to achieve the quality commitments and goals. This QMP will also be amended as the Project moves into future phases of development.

In our commitment to quality, this **Quality Management Plan (QMP) will satisfy all criteria by:**

- A. Creating guidelines, processes and protocols which clearly demonstrate that QC/QA is the full responsibility of our team and not a responsibility of the LDOTD.
- B. Creating clear definitions of responsibility for our designers, checkers, reviewers, and various professionals of record.
- C. Assigning designers and QC/QA personnel to the Project, who are exceedingly qualified to perform the work required of the Project.
- D. Creating Project specific processes and protocols which are clearly described and effective in ensuring accuracy in our design and plan details.
- E. Creating all the necessary QC/QA tools, such as checklists, standard forms and training materials. All our QC/QA tools will be well documented and well suited to the scope and the complexity of the Project.
- F. Creating a focus on the QC/QA concepts for the bridge design elements of the Project by defining specific quality procedures for the major structures of the Project; describing how the QMP will support quality work for the Project; and creating clear definitions of QC/QA.
- G. Provide training to all personnel working on the Project specific to their role in the Project.

The **goals of the QMP for this Contract** are to:

- Increase the probability of meeting the LDOTD’s expectations in terms of the finished product
- Improve analysis and design solutions
- Provide adequate detail on plans
- Reduce errors in reports and plans
- Reduce constructability issues
- Maintain schedule through all project phases
- Allow for efficient and effective innovative solutions, materials and techniques
- Minimize community impacts
- Enhance worker and public safety
- Minimize construction related traffic disruptions
- Accurately mitigate impacts of unforeseen conditions and events

QUALITY MANAGEMENT PLAN

CONTRACT NO. 4400027735

STATE PROJECT NOS. H.005184, H.014054, H.014056

This QMP conforms to the current LADOTD Road Design CONSTRUCTION PLANS QC-QA MANUAL and the current LADOTD BRIDGE DESIGN AND EVALUATION MANUAL (BDEM) for structural elements.

This **QMP** contains seven (7) appendixes:

- APPENDIX A: GUIDELINES FOR DESIGN & DOCUMENT PREPARATION
- APPENDIX B: GUIDELINES FOR PROCESSES
- APPENDIX C: QC CHECKLIST & COMMENT FORMS
- APPENDIX D: QA CHECKLIST & COMMENT FORMS
- APPENDIX E: INDEPENDENT REVIEW & COMMENT FORM
- APPENDIX F: LADOTD ROAD DESIGN QC/QA PLAN
 - F1: 30% PRELIMINARY ROADWAY PLANS QA CHECKLIST
 - F2: 60% PRELIMINARY ROADWAY PLANS QA CHECKLIST
 - F3: 90% PRELIMINARY ROADWAY PLANS QA CHECKLIST
 - F4: ACP FINAL ROADWAY PLANS QA CHECKLIST
- APPENDIX G: LADOTD BRIDGE DESIGN QC/QA PLAN
 - G1: LADOTD BRIDGE DESIGN (DESIGN CRITERIA CHECKLIST)
 - G2: LADOTD BRIDGE DESIGN (FINAL CALCULATION BOOK CHECKLIST)
 - G3: LADOTD BRIDGE DESIGN (QA INFORMATION PACKET CHECKLIST)
 - G4: LADOTD BRIDGE DESIGN (QC/QA CERTIFICATION)
 - G5: LADOTD BRIDGE DESIGN (PEER REVIEW RESOLUTION AGREEMENT)
 - G6: LADOTD BRIDGE DESIGN (CONSULTANT PROJECT BRIDGE DESIGN KICK-OFF MEETING AGENDA CHECKLIST)
- APPENDIX H: NON-CONFORMANCE REPORT FORM

This **QMP** will be distributed to all team members and reviewed to confirm understanding. All team members will be trained so that they understand their role and obligation in implementing the QMP. All personnel shall be held accountable to these high standards.

Revision Summary

To be completed by document owner and/or originator of revisions prior to issue to team.

Revision	Date	Section	Summary of Revision
0.0	10/03/2022	N/A	Transmitted to LADOTD in 24-102

Required Reading Form

All members of this I-69 Frontage Road Contract – Designers, Checkers, Reviewers, and Professionals of Record shall become acquainted with the contents of this document and related attachments. As a record of responsibility of the team, and a record of accountability by Stantec, this form shall be maintained on the Project.

Name	Signature	Date

SECTION 1. UNDERSTANDING OUR ROLE

1.1 STANTEC PHILOSOPHY AND POLICY ON QUALITY (ISO 9001 5.1, 5.2 AND 5.3)

Stantec clearly understands, and believes, that the responsibility for Quality in our services and deliverables is 100% ours. In satisfying the LADOTD's Policy on QC and QA, this QMP creates a commitment to continual improvement of project execution, product quality and the reduction of quality related costs. We believe that RESPONSIBILITY is created through processes and guidelines that are integral to our team's thinking. We believe that ACCOUNTABILITY is created through purposeful reporting and measured results by our leaders. And we believe that SUCCESS is created by our team's ownership of the **QMP**. To this end, Stantec will provide experienced leadership, specifically tasked with developing, maintaining, enhancing, and monitoring the performance of the overall system of quality for the I-69 Frontage Road Contract.

1.2 QUALITY MANAGEMENT PLAN PHILOSOPHY

A critical component of our **QMP** will be to ensure that all Stantec staff involved in the Project are aware of the **QMP** and committed to following its direction. Our QC/QA Manager is responsible for providing Project staff with a copy of the **QMP** and encouraging its use throughout the life of the Project. This goal will be accomplished through an initial training process supplemented with ongoing training to present process revisions based on the results of QC/QA reviews and Project audits. In addition to our **QMP**, each Project team member, regardless of his/her role, will be responsible for the quality of his/her own work and will be expected to provide an appropriate level of quality control on that work.

1.3 QUALITY MANAGEMENT PLAN PRINCIPLES

The guidance for quality management of Stantec projects will be based on three quality principles:

- Client focus
- Project processes
- Measurement, analysis, and improvement

1.3.1 Client Focus

Stantec knows and understands that our future depends on our Clients – which equates to satisfaction with our company and services. Therefore, our primary focus is to understand our Client's current and future needs, while continually striving to meet and exceed our Client's requirements and expectations.

For our Clients, our focus is on "**MAKING IT WORK**". We maintain this focus by:

- **Knowing our Client's View** – we strive to know what the expectations are within our Client's organization, including such things as design philosophy, cost expectations, and project purpose.
- **Knowing our Client's People** - we focus on relationships by knowing the point-of-contact for our Clients and understanding “who does he/she report to?”, or “what is her background on this type of project?”, or more personally “what makes him really excited? Or upset?”
- **Knowing our Client's Scope** – we strive to completely understand project requirements. We want to appreciate “what's behind that?” and pursue it until we get answers like, “that's very important to the project outcome,” or “that's crucial to project approval,” or “that's a particular area of project distinction”.
- **Knowing our Client's Risk** – we appreciate and attempt to understand our Client's important issues such as “what keeps him up at night?”; or “what will create problems for her?”; or in a positive way, understanding “what outcome will give greatest value”, or “what outcome will give greatest satisfaction.”

Another area of Client focus is critical attention to project **time, cost, and deliverables**. Stantec understands that these three factors have an impact on each other and requires evaluation - taking into consideration our Clients' requirements and expectations. We realize that on some projects - or with some Clients - the balancing of these three factors can be particularly delicate. Client focus in these cases is all about our ability to communicate and deliver the basic project requirements while managing expectations and outcomes.

Our Client focus always involves **effective communication**. Our goal is to be continual and timely, thus creating and building confidence with our Client that their expectations are being met and value is being achieved.

Stantec's Client focus also includes **interfaces with all Stakeholders**. These interfaces are crucial to Project success in facilitating the exchange of information, as appropriate, throughout the project. Our focus on behalf of the Client includes resolution of any conflicts between project requirements and Stakeholders requirements – with Client requirements taking precedence, except in the case of statutory or regulatory requirements.

Our focus on “MAKING IT WORK” becomes the Project's Quality Objective - not only for deliverables, but also for our Client's needs and expectations. This Quality Objective outlines the path to a high level of Client satisfaction.

STANTEC QUALITY CONTROL/QUALITY ASSURANCE CONCEPTS & DEFINITIONS

Our concept for QC/QA on this I-69 Frontage Road Contract follows proven methods which include process controls, detailed QC procedures, QA reviews, and continual maintenance and updating of the **Project Design Criteria**. As a management tool of our **QMP**, quality audits and management reviews will also occur. The **QMP** is a living document that will be reviewed and amended throughout the Project cycle in a commitment to continual improvement.

Additionally, our **QMP** will support quality work through Independent Checks focused on Consistency, Constructability and Risk avoidance.

The following definitions of quality management, quality control and quality assurance will apply to the I-69 Frontage Road Project.

Checking Stamp	An electronic or rubber stamp to be affixed on all QC documents and to be used as part of the Five Step Process for all QC Checking .
Five Step Procedure	A detailed checking procedure to be followed by all QC Checkers .
Independent Review	As part of the QA Review, an Independent Review will include one (are more) of the following: <ul style="list-style-type: none">• Consistency review of the plan details to assure uniformity of design, detailing, format and presentation;• Constructability review of the plan details to identify possible design improvements to make construction easier, safer and less costly and/or reduce environmental impacts;• Operational Review to understand how the Project functions, how it can be more user friendly and easier to maintain and how the design can be made more efficient; and,• Risk review of areas of critical importance; areas where, based on the reviewer's experience, mistakes may be typically found; and areas that may be new to the design practice.
Inter-Discipline Reviews	A review focused on specific discipline elements or coordination between different disciplines – includes survey, roadway and bridge; bridge and geotechnical; roadway and traffic; etc.
Management Review Meetings	Review by Project leadership and QC/QA leadership to measure QC/QA compliance at various Project milestones. Review will also include effectiveness of the QMP with the objective of continual improvement.

Primary QC Signature	Signature by Project Manager / Discipline Leader on all submittals and documents prepared under their control.
Quality Control (QC) Submittal Checking	<p>Every work product requires a full review. Work products include plans, cost estimates, reports, evaluations, or studies. For the various submittals, responsibilities may include:</p> <ul style="list-style-type: none">• Checking for completeness in accordance with guidelines approved by the Project Manager or Discipline Leader;• Ensuring that the work product adequately and accurately presents the required information;• Verification of all dimensions and quantity calculations;• Verification of the accuracy of the preparer's work product;• Verification that all design information is correctly and completely shown on the details and in accordance with the approved design calculations;• Verification of conformance to standards of practice;• Verifications of cost effectiveness & fitness for the purpose and function of the specified Project;• Performance of CAD drawing reviews for formatting, layering and CAD Conform requirements; and• Performance of redline checks of the work product (where deemed necessary); or production of an independent work product and comparison of the results.
QC Design Checking	<p>A full review of the design calculations, survey calculations, software input and output, and cost estimates. Responsibilities will also include:</p> <ul style="list-style-type: none">• Verification of the accuracy and adequacy of the preparer's work product;• Compliance with specified codes, standards, and permits;• Conformance to standards of practice;• Performance of redline checks of the work product; or production of an independent work product and comparison of the results; and• Ensuring that the work product adequately and accurately presents the required information. (The calculations of the Design Checker will also become a part of the calculation of record when independent checking calculations are produced.) (The Design Checker will not be the one who performed the original design.)
Quality Assurance (QA) Review	A review of QC documents to ensure that the QC process is complete and the work products (field rolls, designs, plans, cost estimates, reports, evaluations, and studies) are in accordance with the established Project practices, policies, and procedures.

QA Information Package Package of Quality Control documentation submitted to the QA Reviewer. QA Information Packages will be prepared for all Project submittals and shall include appropriate designs, plans, cost estimates, reports, evaluations, or studies. QA Packages will include all QC documentation of the Project submittal such as calculations, plans, and estimates of probable construction costs and include checklists, comments and markups by the Project Professional, Design Checker and Detail Checker.

Quality Management Plan (QMP) The documented requirements that establish and define responsibilities, performance measures, milestone audits and work procedures to ensure that the project deliverables meet predetermined requirements. It encompasses Quality Control, Quality Assurance, and Audit of the scope of work covered by the Project.

SECTION 2. QUALIFICATIONS AND RESPONSIBILITIES OF STANTEC LEADERSHIP AND STAFF

The following qualifications and responsibilities will apply to the leadership and staff of the Stantec team on the I-69 Frontage Road Contract.

Designer Engineer (LA licensed PE or EI) directly tasked with the development of design calculations, drawings, and estimates of probable construction costs. Responsibilities will include:

- Understanding and following the Project Design Criteria;
- Developing, organizing and maintaining design calculations;
- Communicating with the detailer and supervising the detailing work to ensure adequate and accurate presentation of design information;
- Checking his/her own work; and
- Updating design calculations to correct any errors or omissions discovered by the Design Checker.

Detailer Individual directly responsible for the creation of CAD drawings. Responsibilities will include:

- Understanding of drawing formats;
- Understanding of layering requirements;
- Understanding of LADOTD's CAD Conform requirements; and
- Checking his/her own work for accuracy and completeness. .

Project Manager Professional (LA licensed as required) (in most cases a Louisiana licensed PE) tasked with the duty to lead the Stantec team, with the following experience and responsibilities:

- **Experience** – Professional with technical and management experience of projects with similar scope and magnitude.
- **Responsibilities**
 - Serve as overall project leader and liaison with the LADOTD;
 - Develop and monitor overall project scope, schedule and budget;
 - Identify and obtain approval of any scope changes (when required);
 - Monitor the overall project development, deadlines and deliverables;
 - Work and coordinate with all Discipline Leaders through the

progression of the Project;

- Determine all required Inter-Discipline and Independent Review requirements of the Project;
- Establish and monitor protocol and procedures for communications with LADOTD, stakeholders and Discipline Leaders;
- Establish procedures for identifying and resolving project conflicts, constraints and other risks;
- Conduct Project Reviews to identify and track key issues, and provide recommendations for function and efficiency improvements. (Depending on the magnitude and schedule of the Project, reviews can also be post-mortem.)
- Monitor the overall QMP for QC/QA, including systems for tracking progress and completion;
- Accept final work products;
- Track and verify overall project archiving;
- Sign, or delegate responsibility to sign, all Deliverable Release Forms
- Collaborate and effectively communicate with Stantec team;
- Lead meetings, forums and discussions with LADOTD, stakeholders, and Discipline Leaders in Project development and Project decisions;
- Assign and manage resources to execute the work in accordance with the Project schedule;
- Ensure checking and review by appropriate senior individuals that all deliverables are in accordance with the Project Design Criteria, the QMP for QA/QC, and LADOTD standards.
- Establish written agreement for the scope and budget for the Project;
- Achieve budget through effective control of the work;
- Provide prompt identification and submission for formal approval of all scope changes to the Client;
- Archive all Project data and Project deliverables (including surveys, designs, plans, cost estimates, reports, and studies) in accordance with the QMP.

Discipline Leader

Professional (LA licensed as required) assigned to the specific discipline of the Project (Environmental, Surveying, Geometrics, Traffic, ITS, Roadway, or Bridge) and responsible for supervision and/or preparation of all deliverables and submittals as defined by the Project Scope for the assigned Discipline. Experience and responsibilities will include:

- **Experience** – Professional (LA licensed as required) with experience

in executing similar Discipline assignments.

- **Responsibilities**

- Collaborate and communicate on a regular basis with the Project Manager;
- Take full responsibility for providing Discipline scope and schedule;
- Develop, update and implement the Project Design Criteria as related to the Discipline;
- Oversee the development, organization and maintenance of design (where required) and submittals as related to the Discipline;
- Identify activities required for completion of the work for the Discipline;
- Maintain a project deliverable list for the Discipline;
- Maintain matrix (or list) of staff assigned as originators and checkers of the work product by the Discipline;
- Determine the necessary technical knowledge and experience required for all Discipline activities;
- Lead and guide the Discipline staff required for execution;
- Oversee all procedures and forms related to the Discipline;
- Approve and validate all software used by the Discipline staff;
- Develop (as required) and adhere to Process Guidelines (PG's);
- Sub-consultant oversight (as assigned) within the Discipline;
- Inter-discipline Reviews (IDR) - as initiator or participant; and
- Implement the **QMP** for QC and QA to be performed for the Discipline.
- **Appendix F contains special provisions for Roadway QC/QA. These special provisions outline additional and/or revised responsibilities for the Roadway Discipline Leader.**
- **Appendix G contains special provisions for Bridge QC/QA. These special provisions outline additional and/or revised responsibilities for the Bridge Discipline Leader.**

Engineer-of-Record (EOR)

Engineer (LA licensed PE), designated by the Project Manager, responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions. (The EOR can be the Designer, Design Checker, QA Reviewer, or Project Manager - who is directly involved in the project design activities.) The responsibilities of the EOR include:

- Ensure the QC/QA certifications are signed by all responsible parties
- Assemble design calculations from all designers, finalize the calculation book, and seal the cover sheet of the calculation book

- Ensure the names of the Designer, Design Checker, Detailer, Detail Checker, and QA Reviewer are correctly shown on the title block of each plan sheet
- Stamp all plan sheets or designate a Designer, Design Checker, or QA Reviewer developed under their supervision
- Ensure all special provisions are accurately shown on the construction proposal and stamped by the Specification Engineer (or by the EOR).

Independent Reviewer (IR)

Engineer (LA licensed PE) responsible for conducting a totally independent review of all Project document and final deliverables. The Independent Reviewer and QA Reviewer may be the same and also occur at the same time.

QA Reviewer

Engineer, Surveyor or appropriate Professional (LA licensed PE or PLS where required) assigned QA Review responsibilities. The Reviewer must have experience related to the Project discipline.

QC Design Checker

Engineer (LA licensed PE) assigned QC Design Checking responsibilities.

QC Submittal Checker

Engineer, Surveyor or appropriate Professional (LA licensed PE or PLS where required) assigned QC Submittal Checking responsibilities.

QC/QA Leader

Engineer (LA licensed PE) responsible for coordinating the Quality Management practices across the Project and to ensure implementation of the **QMP** for the Project. Duties also include:

- **Establish** Process Controls and overall QMP for QA/QC;
- **Provide** QC and QA oversight;
- **Prepare** Quality Audit Reports (Proof of Compliance) to track quality trends, solicits feedback from the LADOTD on quality related issues;
- **Attend** Management Review Meetings conducted by the Project Manager and prepare report of findings and recommendations for improvement; and
- **Sign** Delivery Release Record attesting that all QC/QA documentation has been properly completed and authorized for release of the submittal.

SECTION 3. DESCRIPTION OF THE QC, QA & IR PROCESSES

3.1 QUALITY MANAGEMENT PLAN

The Quality Management Plan for the I-69 Frontage Road Contract includes formats and templates for QC and QA that have been successful on many past projects. Our QMP processes will also focus on the following:

- **High risk elements** which may include complex roadway geometrics, complex structures, and unique project elements;
- **Rigorous verification elements** such as project geometrics; and
- **Refinement elements** such as roadway profiles and bridge design elements with a high level of repetition - where efficiency of detail could yield financial benefit.

3.1.1 Project Meetings

Project meetings required for the I-69 Frontage Road Contract task orders are as outlined and described in the Scope of Work. All project meetings will be guided by the principles and requirements as detailed in the **Process Guideline (Project Meetings)**.

3.1.2 Process Control

As required for more complex projects, this document should outline all aspects of preconstruction activities, design guidelines, environmental requirements, permitting, specifications, right-of-way, utility relocations, estimates, and financial.

Process control may include the following:


- Identify, confirm, document and communicate objectives, deliverables, schedule, work plan, standards and analysis methodology
- Obtain confirmation, and approval where required - by the LADOTD and other stakeholders
- Confirm the information provided for project implementation is complete and accurate
- Review site conditions, particularly those areas where conflicts and constraints may affect design or constructability
- Maintain a documented, indexed and traceable record of all work in a format that allows the project team access to all pertinent project information
- Ensure all deliverables are signed and stamped in accordance with LADOTD requirements
- Provide all documentation to the designated quality control checkers and quality assurance reviewers, including Non-Conformance Reports

3.2 QUALITY CONTROL

Quality control (**QC**) is the responsibility of each individual undertaking a component of the work. To assist in this process, the **Project Manager** will establish as part of this **QMP** responsibilities and procedures for checking technical accuracy of the work, identifying and correcting any discrepancies, rejecting product not meeting requirements if necessary, and accepting the final work product as well as defining the frequency of implementing some or all of the procedure and reviewing procedural performance. It is expected that this procedure will include checks by individuals knowledgeable of the technical requirements for a particular activity and with the relevant qualifications and experience in the discipline.

QC reviews will be conducted for all submittals at the required LDOTD Milestones. The **Project Manager** will work with the **Discipline Leaders** to identify **QC** reviews and who will have responsibility for **QC** of these reviews. As part of the **QC** accountability, the **Discipline Leader** will be the **Primary QC Signature** on all submittals and documents prepared under their control. As part of this **QMP**, **Discipline Leaders** will be responsible for the following:

- Complete **Section 4** of the **QMP** by assigning **QC Design Checkers** and **QC Submittal Checkers** possessing the technical skills, relevant qualifications and experience required to complete these efforts;
- Utilize the checklists included in **Appendix A**, or create checklists to assist in the reviews and provide documentation of the review;
- For **QC Design & Submittal Checking**, a **Five Step Procedure** will be used. For this purpose, the **Checking Stamp** shown below will be used. The **Checking Stamp** is available as an electronic image or a rubber stamp which must be affixed to the documents.

SUBMITTAL:	
ORIGINATOR: _____	DATE: _____
CHECKER: _____	DATE: _____
BACKCHECKER: _____	DATE: _____
CORRECTOR: _____	DATE: _____
VERIFIER: _____	DATE: _____

Checking Stamp

3.2.1 Five Step Procedure

Step 1. Once **Designer & Detailer** complete calculations and plans a **Check Print Stamp** will be placed on calculations and plans indicating a submittal name/division. **Designer/Detailer (Originator)** will sign and date on calculations/plans, and will provide calculations and/or plan sets to the **Checker**.

Step 2. The **Checker** will indicate with a highlighter that he/she agrees with, and use red marks that he/she would like to make comments. **Checker** will sign and date the calculations and/or plan sheets being checked and give it to **Backchecker** (can be the same person as the **Originator**).

Step 3. **Backchecker** will go through all the comments made by the **Checker**. If he/she agrees he/she would put a green check beside the **Checker's** comments. But if the **Backchecker** disagrees with the **Checker's** comment, he/she will resolve the disagreement with the **Checker**. If the **Checker's** comments needs to be changed the **Backchecker** will strike through the **Checker's** comments and update it using a pen. The **Backchecker** will sign and date it.

Step 4. **Corrector** (can be the same person as the **Originator**) will correct all comments which are agreed upon. Once the correction is made he/she will circle the changes with a pen. **Corrector** will sign and date it, he/she will give it to **Verifier**.

Step 5. **Verifier** (can be the same person as the **Checker**) will verify all changes, and will highlight the circles. He/She will sign and date it to complete the process.

Quality Control Records will be checked documents (*including evidence of checking, evidence of verification, evidence of interdisciplinary review, and evidence of approval*), memoranda, meeting notes, or checklists specific to the task.

3.2.2 Quality Control (LADOTD Requirements)

Refer to Appendices 'F' and 'G' for details on completing **LDOTD Road and Bridge QC/QA**. These procedures are tailored to satisfy the **LADOTD, Road Design Section, "Construction Plans QC-QA Manual"**, and **Bridge Design Section, "Policy on Quality Control and Quality Assurance's Construction Plans."** These procedures augment the procedures described herein and are **required for all LDOTD work products**.

Quality Control (QC) Road will have the responsibilities as detailed in Appendix 'F'. **Quality Control (QC) Bridge** will have the responsibilities as detailed in Appendix 'G'. In addition, **QC** will also include:

- For the simple and moderately complex elements of the Project, create checklists to assist in the reviews and provide documentation of the review.

- For the high-risk elements and complex structural components of the Project, institute the use of independent modeling and QC by independent design teams, rather than line-by-line checking to make sure that both math and methodology are checked in an effective way.
- Create Process Guidelines (PG's) as the basic tool to define standards, outline technical approaches, and define the salient points and objectives of design. PG's will be developed by Discipline Leaders and other senior technical staff.

Particular components of the PG's will include:

- "Complex" Element PG's - will also establish protocols for elements defined as "complex" in preparing independent analyses and required calculations to ensure true independence for comparison to the original analyses and calculations used to perform a QC check of the bridge plans.
- Bridge PG's – create protocols to identify software to be used, the methodology and approach to structure interactions, construction preferences for materials and methods, specific LADOTD criteria, and project specific criteria. The purpose of the PG's is to serve as clear guides to keep design efforts focused and coordinated.

3.3 QUALITY ASSURANCE

As part of this **QMP**, the Quality Control/Quality Assurance (QC/QA) Manager will establish the following:

- Assign Quality Management Personnel (QA reviewers) for the Project and ensure these individuals possess the technical skills, relevant qualifications and experience required to complete the efforts (in particular, the bridge aspects of the project) (These individuals are summarized in Section 4);
- Verify that Quality Assurance (QA) Information Packages have been properly prepared for the QA reviewer's use;
- Complete the required QA certification (signed by the appropriate QA reviewer);
- Document QA reviewer's comments;
- Reconcile, and/or develop accepted course of action;
- Prepare QA Review Comment Form Reports or Non-Conformance Form Reports as appropriate to deal with issues noted in the review; and
- Confirm that all issues raised and actions identified are addressed.

3.4 INDEPENDENT REVIEW AND CONSTRUCTABILITY REVIEW

An independent individual/team will be identified to develop additional ideas to assure that enhance innovation and construction for the Project.

As part of the QA Review, an Independent Reviewer will include be designated and identified in the Section 5, Quality Management (QC/QA) Personnel. The Independent Reviewer will perform consistency, constructability and risk reviews as defined in Section 2 of this document.

3.4.1 Document and Data Control

Quality related records, including hard copy and digital file documentation, will be received and maintained in accordance with Stantec best practices.

These records will include the following:

- Copy of the **QMP** and all revisions to the plan
- Copy of all **Quality Control** checklists and certifications for each milestone review
- Copy of all **Quality Assurance** certifications for each review
- Copy of all **Design Review Comment Forms, Non-Conformance Reports** and evidence of the corrective action and subsequent compliance for **QC** and **QA** reviews

3.4.2 Control of Sub-Contracted Work

Sub-consultants will be required to provide a copy of their QMP for review by Stantec; or, be required to follow the Stantec **QMP**.

3.4.3 Control and Correction of Non-Conforming Work

Identified deviations from designs or non-conformances need to be assessed, documented, and communicated to affected parties. This process will be handled through Design Review Comment Forms and Non-Conformance Reports (NCRs).

The corrective action taken and any preventative actions identified as being appropriate to prevent future occurrences will be documented.

3.5 PROJECT DESCRIPTION AND SCOPE

3.5.1 Disciplines/Tasks

Project elements included in the QC plan will be applied to all project deliverables produced by the Project for the following disciplines/tasks:

- Topographic Survey & SUE Services
- Roadway, Geometric Design and Analysis, Drainage
- Bridge Design
- Hydraulics
- Traffic Engineering
- Geotechnical Engineering

SECTION 4. QUALITY MANAGEMENT (QC/QA) PERSONNEL

List of Personnel Assigned to Quality Management Tasks per Activity	Project Manager – Cindy Hall, PE
Roadway, Geometrics and Drainage	
Designer(s)	Michael Neumann, PE, Mary Frances O'Rourke, PE
QC – Design & Plans	Nick Prudhomme, PE, Joseph Cains, PE
QA – Design & Plans & Independent Review	Cindy Hall, PE, Gary Heitman, PE
Bridge	
Designer(s)	Kunal Malpani, PE, Maggie Ye, PE
QC – Design & Plans	Amir Botros, PE, John Krebs, PE
QA – Design & Plans & Independent Review	Brian Johnson, PE
Traffic Engineering	
Designer(s)	Stephen Mensah, PhD, PE, PTOE
QC – Design & Plans	Joey Lefante, PE
QA – Design & Plans & Independent Review	Joseph Cains, PE, Matt Davis, PE, PTOE
Geotechnical	
Designer(s)	Larry Sant, PE
QC – Design & Plans	James Aronstein, PE
QA – Design & Plans & Independent Review	James Aronstein, PE, David Sauls, PE/Brian Johnson, PE
Topographic Survey and SUE	
Designers and Detailers	TBD
QC – Plans	Jerry Lazenby, PE, PLS; Bryan Bunch, PLS; Amy Schulze, PE, CFM
QA – Plans & Independent Review	Jerry Lazenby, PE, PLS; Cindy Hall, PE

Appendix A: Guidelines for Document Preparation

A.1 Purpose and Scope

- A.1.1. The purpose of these Guidelines is to establish a method for consistently delivering quality project work that meets client needs and prevents rework.
- A.1.2. These Guidelines are mandatory and apply to all project work.
- A.1.3. Methods for rework prevention include reviewing project input; checking and verifying project work by someone other than the **Originator**; conducting **Interdisciplinary Reviews**, where required; and **Approving** project work for further use or delivery.
- A.1.4. It is recognized that some projects do not result in the “traditional” deliverables of calculations, designs, contract documents, studies/reports, etc. Nonetheless, the principles underlying **Checking** and **Verification** must be applied.
- A.1.5. These Guidelines are to be supplemented by Appendix F – **LDOTD Road QC/QA** and Appendix G – **LDOTD Bridge QC/QA**

A.2 Preparation of Calculations

A.2.1. Terms and Definitions

- A.2.1.1 Calculations – Mathematics-based computations that transform input data into a result that is used as further input to the delivered project work, or is delivered directly to the client to meet contract obligations.
- A.2.1.2 Assumptions – Estimated or presumed information used as input to a calculation.
- A.2.1.3 Confirmation – Verification that an assumption was correct based on actual data.

A.2.2. Procedure

A.2.2.1 Calculation Preparation

- (i) **Discipline Leaders** shall assign qualified individuals the task of preparing calculations and are responsible for monitoring compliance with this guideline.
- (ii) **Calculations** are to be neat, legible and suitable for reproduction. They are to be prepared using company calculation pads, where available, including a header with space for identifying the calculation title, page numbers, project name and number, and the **Originator’s** and **Checker’s** names, initials and dates.

- (iii) **Calculations** must be organized and logically presented, and are to include sufficient notes, explanations and sketches to make the calculation easily followed. The intent is to make calculations understandable by an individual competent in the subject matter without going back to the originator.
- (iv) The following information should be provided in the calculation, or on a cover or summary page:
 - (a) Objective – A statement of the problem or question to be solved (if not obvious from the title).
 - (b) Method – Identify the methods to be used, including software.
 - (c) Assumptions – Clearly state any assumptions applied.
 - (d) References and Inputs – Identify the inputs and the references for inputs, equations, methods, etc. Design inputs used as the basis for calculations shall be verified by the **Originator** as obtained from a reliable source. Design equations, tables, field data, etc., shall be referenced to the specific section of the applicable design code or manual. Any information not readily available to a reviewer should be attached as an appendix to the calculations.
 - (e) Conclusions – Clearly state the conclusions of the calculations including any limitations, conditions and/or exceptions.
- (v) Confirmations – Critical assumptions need to be tracked and confirmed by the **Originator** as soon as valid and current data becomes available. The impact of any variances between assumptions and confirmed information must be evaluated, and any necessary revisions to calculations made.
- (vi) In assembling larger sets of calculations, or where providing summary information will be useful, the use of a calculation cover page may be helpful.
- (vii) Prior to the results of a calculation being utilized for subsequent design work, relevant calculations shall be checked and verified in accordance with **Checking and Verification Procedure** and documented accordingly.

A.2.2.2 Computer Calculations

- (i) Computer calculations shall include or reference documentation clearly explaining the program's function, nomenclature, and sign conventions utilized. All technical software must be validated in accordance with the **Software Validation Procedure**.
- (ii) Calculations utilizing computer programs to perform analyses or design shall include the following:

- (a) Name of the program including version or revision level.
 - (b) Paper copies of computer output files, or portions thereof, that are required to satisfy the documentation requirements of this procedure shall be labelled and filed.
 - (c) Identification and/or location of associated electronic files.
- (iii) Spreadsheet calculations shall be documented and organized so that formulae used in the spreadsheet can be checked for accuracy of incorporation into the spreadsheet, using a calculator or other method. After validation of the spreadsheet calculations the spreadsheet shall be protected to prevent inadvertent modification of the embedded formulae.

A.2.2.3 Revisions to Calculations

Revisions (or cancellations) may be required after an initial set of calculations has been reviewed. These revisions may be a result of client comments, scope changes, or errors found during subsequent reviews. Revisions to the calculations do not necessarily warrant a second review of the entire set of calculations. Only the revised portion of the calculations may need to be reviewed. Required revisions shall, therefore, be completed as follows to appropriately document the revisions made:

- (i) Revisions shall be reviewed and approved in the same manner as the original. The **Originator** and **Reviewer** of the calculations shall be responsible for the revision. The revision to the calculation shall be clearly identified and dated or shall be replaced by a new calculation.
- (ii) Revisions shall be prepared in a manner that provides a clear record of the content of the calculation, both prior to and after the revision. The reason for the revision should be identified.
- (iii) Revisions to calculations that impact other disciplines shall be immediately reported to the **Project Manager** and the affected disciplines.

A.2.2.4 Control of Calculations

- (i) All calculations shall be organized and adequately indexed to facilitate retrieval of results and verification of completeness. A calculation index may be useful as a tool to help plan and organize the work, or may be developed upon completion of the calculations for record and archival purposes.
- (ii) On completion of the calculation review process, original calculations including calculation cover pages, checklists, index pages and other associated documents shall be controlled.

A.3 Preparation of Studies/Reports

A.3.1. Terms and Definitions

A.3.1.1 **Technical Study or Report** – A hardcopy or electronic document based on technical information gathered and evaluated with professional insight and delivered to the client. Generally, a technical study or report contains conclusions and often contains recommendations.

A.3.2. Procedure

A.3.2.1 Style and Format

- (i) The report should be prepared following the client-specific preference and project standardized format. If the client has a specific preference or the office or group preparing the report has a previously used style with that client, these factors should be considered in developing the report format.
- (ii) The format (organization and content) of project technical studies and reports shall be based on the client's requirements. Absent client-specified format, the **Project Manager** and/or the originating **Discipline Leader** shall determine the format based on the scope and complexity of the report.

A.3.2.2 Development and Review

- (i) **Discipline Leaders** shall assign qualified individuals the task of preparing study and report content and are responsible for monitoring compliance with this guideline.
- (ii) **Discipline Leaders** shall arrange for reviews in accordance with the **Checking and Verification Procedure** and documented in the associated forms.
- (iii) In addition to discipline reviews, the **Project Manager** shall review the study/report for overall adequacy, completeness, and contractual requirements including compliance with applicable client requirements.

A.3.2.3 Distribution and Filing

- (i) **Project Manager** shall distribute copies of technical reports and studies and any changes thereto to personnel/organizations requiring them.
- (ii) If multiple reports are expected, it is suggested that the **Project Manager** or designee maintain an index of project technical studies and reports.

A.3.2.4 Changes

- (i) Technical reports and studies should be maintained current with significant changes identified during technical development.
- (ii) Changes to issued technical reports and studies shall be processed in the form of revision/addenda, approved and distributed.
- (iii) Changes incorporated in technical reports and study revisions that are to be reissued should be identified. The reasons for changes should also be provided when it would be helpful for users. The revision date shall be added to the cover.

A.3.2.5 Use of Photographs or Digital Images

- (i) Photographic or digital images used in the **Study or Report** depicting conditions relevant to the findings or conclusions shall be dated. Electronic files of images of photography taken by project staff or subconsultants shall be retained in project files along with a record print. Photos used in a report from a source other than project photography shall be attributed to the proper source.

A.4 Preparation of Drawings

A.4.1. Procedure

A.4.1.1 General Guidelines

- (i) **Discipline Leaders** shall assign qualified individuals the task of preparing drawings and are responsible for monitoring compliance with this guideline.
- (ii) At project inception, a project drawing list is to be developed, or updated from one prepared during the proposal phase, by each discipline. Drawing lists will be updated at each milestone to help the **Project Manager** in estimating progress or completion status.
- (iii) Drawing Numbers and File Naming – Drawings and drawing files shall be uniquely identified with drawing numbers in accordance with the system applicable to the project.
- (iv) CAD Standards – The CAD Standards to be used on the project shall be as identified in the scope of services, or through detailed discussions with the client.
- (v) Origin of Drawings – **Discipline Leaders** are responsible for assigning the preparation of drawings to a **Designer** who may work with the **Detailer** working under the direction of a CAD Manager. Each **Designer** shall be responsible for seeing that the required information is transmitted to the **Detailer** via sketches, marked-up prints, electronic data, and/or written or verbal instructions.

- (vi) Duplication of information is to be avoided on drawings, and between drawings and specifications.

A.4.1.2 Review of Drawings During Preparation

- (i) **Designer** will conduct periodic reviews of drawings in progress to see that proper scales, orientation, standards, formats and design information are being utilized and that the design input has been interpreted, applied properly, and is being coordinated with other disciplines. This type of “over-the-shoulder” review takes place as the work progresses, and precedes the formal reviews that occur as part of the **Checking and Verification Procedure**.
- (ii) Where available, the **Designer** may use discipline-specific, client-specific, project-specific or other similar checklists to verify that design, construction and presentation aspects and details are being adequately addressed.

A.4.1.3 Client Requests for Unchecked In-progress Drawings

- (i) Clients occasionally request non-contractual, unscheduled, interim or in-progress submittals of drawings for any number of purposes. Given the risks associated with providing unchecked documents to a client and the potential for client complaints, it is always intended that drawings be reviewed in accordance with the **Checking and Verification Procedure** prior to submission. However, when circumstances demand, unchecked drawings may be released if the following minimum requirements are met:
 - (a) The **Project Manager** shall review the drawing set to confirm that the drawings have progressed to the completion level anticipated by the client and to confirm that the non- contractual progress submittal would not be deemed as unacceptable by the client in any way.
 - (b) A disclaimer statement (or bold stamp) shall be placed on the drawing set indicating that “IN-PROGRESS” and are being provided for “INFORMATION ONLY” at the request of the client.”
 - (c) The **Project Manager** shall submit the non-contractual progress submittal with a cover letter stating that the drawing set is being provided for “INFORMATION ONLY” as requested by the client. The cover letter shall also state that the IN-PROGRESS submittal has not yet been reviewed in accordance with project procedures and is subject to revision in concept and detail as work progresses.

A.4.1.4 Signing and Sealing of Drawings

- (i) Drawings issued for construction shall be signed and sealed in accordance with the laws of the applicable State, typically that where the project is located, not

where the design takes place. **Discipline Leaders** shall be responsible for understanding the practice and implementing on the project. Any discrepancy or confusion shall be brought to the attention of **Project Manager**.

A.5 Software Validation Procedure

A.5.1. Purpose and Scope

A.5.1.1 This procedure describes minimum requirements to ensure that technical software used on the project has been validated before use.

A.5.1.2 This procedure applies to software used for any of the following:

- (i) Performing calculations;
- (ii) Developing input for use in calculations;
- (iii) Creating designs or drawings using embedded calculations;
- (iv) Generating output provided directly to clients;
- (v) Generating output included in deliverables to clients; or
- (vi) Software that is developed and delivered to a client as a contractual obligation.

For purposes of this procedure, such software is referred to as “technical software.” Exclusions from this procedure include software:

- (i) That does not conform to the definitions provided in the list above;
- (ii) Used to produce output that is checked and verified manually;
- (iii) Inherent to equipment for measuring and testing, which is periodically verified and calibrated in accordance with the manufacturer’s specifications; or
- (iv) Designed to enable the operation and maintenance of a computer system and its associated programs (systems software).

A.5.1.3 Mathematical, formulaic and logic-based programming developed within standard office-type platforms such as Excel and Mathcad may typically be validated as calculations in accordance with the **Checking and Verification Procedure**. Advanced or complex programs that are not amenable to standard checking/verification shall be validated in accordance with this procedure.

A.5.2. Terms and Definitions

- A.5.2.1 **Approver** – The individual, independent of the **Validator**, that reviews the validation output and accepts the software for use on the project.
- A.5.2.2 **Industry-Standard Software** – Commercially available technical software that is widely used and accepted in a discipline or practice area, and that does not require significant adaptation.
- A.5.2.3 **Legacy Software** – Technical software regularly used in the current version for at least three years and for which no problems have been reported, or for which problems have been reported and corrected.
- A.5.2.4 **Non-Standard Software** – Technical software that is not widely used and accepted in the industry.
- A.5.2.5 **Software Register** – An up-to-date listing of validated technical software maintained by each **Discipline Leader** and posted in a location accessible to all staff.
- A.5.2.6 **Validation** – The process of accepting technical software for use by an LCP Company.
- A.5.2.7 **Validator** – The individual that performs the validation.

A.5.3. Procedure

A.5.3.1 Staff Responsibilities with Technical Software

All staff using technical software shall help ensure that technical software is used properly, that it is appropriate for the task at hand, and that any resulting errors, input/processing problems, or questionable output are reported to their **Discipline Leader**.

A.5.3.2 Technical Software Register

Discipline Leaders shall maintain a register, accessible to project staff that lists technical software that has been validated for use. The register shall include, at a minimum, the vendor name, software name/description, and version number.

A.5.3.3 Responsibility for Software and Validation

Discipline Leaders are responsible for monitoring the use of technical software within their departments, disciplines and/or practice areas and ensuring that such software meets the requirements of this procedure. When appropriate, **Discipline Leaders** may serve as Validators and/or Approvers.

A.5.3.4 Software Classification

Technical software shall be classified by the appropriate **Discipline Leader** into one of the following categories, as defined above:

- (i) Legacy Software
- (ii) Industry-standard Software
- (iii) Non-standard Software

A.5.3.5 Validation Process

The appropriate **Discipline Leader** shall assign a **Validator** and **Approver** who shall process the technical software in accordance with its classification as follows:

- (i) Legacy Software – Acceptance is based on previously documented and satisfactory internal production experience.
- (ii) Industry-Standard Software – The software developer/vendor shall be requested to provide a signed statement or certification that the software has undergone a quality control validation process confirming that it performs as intended. Based on this certification, such software requires no further validation other than a run with sample data to verify that the program functions properly. When no such statement or certification is available, the software shall be treated as Non-standard Software.
- (iii) Non-standard Software – Shall be validated using either of the following test procedures:
 - (a) Run the software using input from a known solution and verify that the program output matches the known solution. All significant design options/methodologies offered by the program shall be verified.
 - (b) Perform a manual calculation to verify the results obtained using the software.

A.5.3.6 Validation Approval

The **Validator** shall provide the results and documentation of the validation process to the assigned **Approver**, who shall review the information and, if found acceptable, approve the software for use. The **Approver** shall take the necessary steps to have the technical software added to the LCP validated software register. Technical software shall not be used in production until it has been accepted by the **Approver**.

A.5.3.7 Validation of Software Revisions

- (i) New versions of technical software that have been previously validated shall be reviewed by a **Validator** by running the input file or database from the previous version and comparing results. Any differences between the outputs shall be justifiable.
- (ii) When approving new versions, changes that may affect previous output shall be noted and communicated by the **Validator** to the **Discipline Leader**.
- (iii) The widespread use and acceptance of the new version of the software in our industry, without apparent concern regarding its performance, may also be considered as a basis for accepting new versions.
- (iv) New versions of technical software shall not be used prior to acceptance by the **Approver**.
- (v) Consideration shall be given to whether only the latest version of the software is to be maintained, keeping in mind that the use of older versions may still be required by the client or for continuity with earlier output.

A.5.3.8 Software Validation Documentation

The validation process shall be documented.

A.5.3.9 Software Errors

Errors discovered by any user in previously validated software that have the potential to affect completed work shall be reported to the appropriate **Discipline Leader**. The **Discipline Leader** shall then be responsible for:

- (i) Notifying the software developer/vendor and **Project Manager**
- (ii) Identifying projects that have used or are using the software
- (iii) Assessing the impact of the error on both completed and ongoing projects, including notification of other **Discipline Leaders** as appropriate.
- (iv) Developing a corrective action plan for all affected projects
- (v) Revising the validation documentation, including the software register, as necessary

Appendix B: Guidelines for Processes

B.1 Project Processes

We believe that a Project's desired result is achieved more efficiently when activities and related resources are managed as a Process. In achieving desired results, Process Guidelines must be identified and documented. Stantec develops typical Process Guidelines based upon past experiences. Unique Process Guidelines (PG's) are also developed for certain projects.

Our PG's are defined as those functions necessary for managing the Project as well as those that are necessary to realize the project's deliverable. Project processes include:

- administrative processes; and,
- technical processes

Our QMP provides Process Guidelines (PG's) for all known project processes. PG's outline a quality process to be performed; and becomes part of the QMP for the Project.

Basic Elements of a Process Guideline should include:

- purpose
- process description
- key elements
- responsibility/authority

Appendix C: QC Checklist & Comment Forms

DRAFT

QC DESIGN CHECKLIST & COMMENT FORM																															
PROJECT ELEMENT																															
ORIGINAL CALC <input type="checkbox"/> Yes <input type="checkbox"/> No	IF REVISED, REV'N NO.																														
DESIGNER	QC DESIGN CHECKER																														
ENGINEER OF RECORD																															
CALCULATION TYPE <input type="checkbox"/> Hand calculation <input type="checkbox"/> Spreadsheet <input type="checkbox"/> Vendor Software <input type="checkbox"/> Other																															
1. If SPREADSHEET, has it been approved by Stantec's Project Manager? <input type="checkbox"/> Yes <input type="checkbox"/> No 2. If VENDOR SOFTWARE, is it on the LDOTD, Bridge Design Section website, pre-approved list? <input type="checkbox"/> Yes <input type="checkbox"/> No 3. If not on pre-approved list, has it been approved for use by LDOTD, Bridge Design Section? <input type="checkbox"/> Yes <input type="checkbox"/> No 4. If OTHER, please describe																															
DESIGN INPUT VERIFICATION																															
1. Has design input been generated from another source? <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Has source information been checked and approved? <input type="checkbox"/> Yes <input type="checkbox"/> No																															
CALCULATION CHECK (If response is <u>No</u>, provide applicable comments)																															
1. Has the DESIGNER signed and dated the calculation? 2. Is the calculation in accordance with a standard approach to preparing the design? 3. Is the calculation consistent with contractual requirements of the Scope of Work? 4. Are any new DTM's by LDOTD required to be implemented in this design? 5. Has the Project Design Criteria been included & followed? 6. Is a Project "GO-BY" required for this design? 7. Has the Project "GO-BY" been followed? 8. Have assumptions for the design been reviewed and confirmed? 9. Are results & conclusions consistent & reasonable considering the inputs & approach? 10. Are special provisions or Non-Standard Specification required for this design? 11. Have any NON-CONFORMANCE REPORTS been prepared?	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> <tr> <td style="text-align: right;"><input type="checkbox"/> Yes</td> <td style="text-align: right;"><input type="checkbox"/> No</td> <td style="text-align: right;"><input type="checkbox"/> N/A</td> </tr> </table>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																													
Comments:																															
QC DESIGN CHECKER SIGNATURE _____	DATE:																														

QC DETAIL CHECKLIST & COMMENT FORM	
PROJECT DRAWINGS CHECKED	
ORIGINAL DRAWINGS <input type="checkbox"/> Yes <input type="checkbox"/> No	IF REVISED, REV'N NO. _____
ORIGINATOR(S) _____	QC DETAIL CHECKER _____
CHECK LEVEL <input type="checkbox"/> 30% Final <input type="checkbox"/> 95% Final <input type="checkbox"/> 98% Final <input type="checkbox"/> PS&E	
DESIGN, QUANTITIES, MATERIALS, SPECIFICATIONS & NOTES	
1. Has the DESIGN INFORMATION been checked and approved?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Have the QUANTITIES been checked and approved?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Are the MATERIALS properly coordinated with the Project specifications?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Are special provisions or Non-Standard Specifications required for any of the design elements or materials shown on the DRAWINGS?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Do the NOTES include proper references for DESIGN & MATERIALS and proper cross-references to other DRAWINGS?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
DRAWING CHECK (If response is <u>No</u>, provide applicable comments)	
1. Are titles and sheet numbers properly shown & matching the Sheet Index?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Have comments from previous internal reviews been addressed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Have comments from previous LDOTD reviews been addressed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Is the DESIGN INFORMATION properly and correctly presented?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Is completeness sufficient for the REVIEW LEVEL?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Have the appropriate CAD standards been followed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7. Are the DRAWINGS properly formatted in accordance with the "GO-BY"?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8. Are there any constructability issues presented on the DRAWINGS?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9. Have the appropriate CAD standards been followed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10. Have dimensions been independently verified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
11. Are critical dimensions and clearances correct?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
12. Have redundancy and duplication issues been eliminated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
13. Have the DRAWINGS' information been properly interfaced with other disciplines?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
14. Have Project geometrics been verified with other discipline drawings?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
15. Have any NON-CONFORMANCE REPORTS been prepared?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments:	
QC DETAIL CHECKER SIGNATURE _____	DATE: _____

Appendix D: QA Checklist & Comment Forms

DRAFT

QA REVIEW & COMMENT FORM	
DESCRIPTION OF QA PACKAGE: Designs Included in Package: Drawings Included in Package:	
QA REVIEWER	
REVIEW LEVEL	<input type="checkbox"/> 95% Final <input type="checkbox"/> 98% Final <input type="checkbox"/> PS&E
QA PACKAGE PREPARATION	
Has the QA PACKAGE been properly prepared for review?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Have INDEPENDENT CHECKS been properly prepared & included in the QA PACKAGE?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:	
PACKAGE REVIEW (If response is <u>No</u>, provide applicable comments)	
1. Have all DESIGNS been properly checked in accordance with the 5-step method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Have all DESIGN COMMENTS been properly resolved?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Have all DRAWINGS been properly checked in accordance with the 5-step method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Have any NON-CONFORMANCE REPORTS been prepared?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments:	
QA REVIEWER SIGNATURE _____	DATE: _____

Appendix E: Independent Review & Comment Form

DRAFT

INDEPENDENT REVIEW & COMMENT FORM	
DESCRIPTION OF QA PACKAGE: Designs Included in Package: Drawings Included in Package:	
INDEPENDENT REVIEWER	
REVIEW LEVEL <input type="checkbox"/> 95% Final	
IR PACKAGE PREPARATION	
Has the IR PACKAGE been properly prepared for review? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:	
COMPLETENESS & CONSTRUCTIBILITY REVIEW (If response is <u>No</u> , provide applicable comments)	
1. Do the PLANS & SPECIFICATIONS satisfactorily complete the Project SOW?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Are the design concepts & technical solutions suitable to the Project's SOW?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Are the PLANS & SPECIFICATIONS presented with completeness for bidding?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Do the PLANS & SPECIFICATIONS provide the contractor with clear, concise information that can be utilized to prepare a competitive, cost-effective bid?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Can the Project, as detailed in the PLANS & SPECIFICATIONS, be constructed using standard construction methods, materials and techniques?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. When constructed in accordance with the PLANS & SPECIFICATIONS, can be the Project be maintained in a cost-effective manner?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments:	
INDEPENDENT REVIEWER SIGNATURE _____ DATE: _____	

Appendix F: LADOTD Road Design QC/QA Plan

In addition to the **QC/QA** procedures described in this **QMP**, **LADOTD Road Design** has established requirements for road design projects. This **Appendix F** has been developed with respect to the current **LADOTD Road policies**. Stantec's **QMP** program is well aligned with the **LADOTD Road Policy**.

Consistent with our **QMP** program, Stantec clearly understands, and believes, that the responsibility for Quality in our services and deliverables is **100% ours**. We also recognize that expectation of LADOTD Road and its staff is only to provide oversight on the design process. The following Checklists are incorporated and become the requirement of the project/assignment. Where discrepancies arise between the Stantec QMP and the LADOTD Road Design QC/QA Plan, the LADOTD Road Design QC/QA Plan shall govern.

- F1: 30% Preliminary Roadway Plans QA Checklist
- F2: 60% Preliminary Roadway Plans QA Checklist
- F3: 90% Preliminary Roadway Plans (Pre-Plan in Hand) QA Checklist
- F4: ACP Final Roadway Plans

F1: 30% Preliminary Roadway Plans QA Checklist

Give comment on separate sheet for any item marked 'no'.

Yes No

Title Sheet

- Is layout map sufficient (scale, north arrow, size)?
- Are project termini labeled (begin/end state/fed project, CS log mile, equations, bridges, exceptions)?
- Are Traffic Data, Design Speed, & Class of Highway shown?
- Is survey information shown?
- Is type of construction identified?
- Is project caption complete (Federal aid no., state project no., project name, parish, route no.)?
- Is specification year note complete?

Typical Section and Detail Sheets

- Has the pavement design, soil borings, ph and resistivity been requested?
- Are sections in agreement with current specifications and project design criteria?
- Are right-of-way lines shown?
- Is area to be constructed free of obstructions labeled?
- Are superelevation details shown?
- Are grading sections shown?
- Are finished sections appropriate (travel lane & shoulder widths & slopes, median widths, embankment slopes)?
- Are limits of erosion control items (seeding, fertilizer, water, etc.) shown?
- Are typical sections sufficient to show proposed construction?

Plan-Profile Sheets

- Are the sheets set up at an appropriate scale (horizontal and vertical)?
- Are legend and notes adequately shown on first plan/profile?
- Is the existing roadway shown 500' before and after the project limits?
- Are all topographic features plotted and labeled where appropriate (pavement types, structure types & sizes, etc.)?
- Are utilities shown and adequately labeled?
- Is existing right-of-way shown and labeled?
- Are beginning & ending project limits labeled?
- Is north arrow and scale shown?
- Is proposed horizontal geometry shown and adequate (appropriate horizontal curve lengths, equations, surveyed and abandoned, stations, and labeling)?
- Is existing profile grade with elevations shown in profile grid?
- Is proposed vertical geometry shown and adequate (appropriate curve lengths, grades, equations, and labeling)?

Completed By:

Date:

F2: 60% Preliminary Roadway Plans QA Checklist

Note: If sufficient changes have occurred since 30% submittal, need to complete 30% checklist again.

Give comment on separate sheet for any item marked 'no'.

Yes No

Title Sheet

- Have comments from 30% submittal been addressed?
- Have items from 30% checklist marked as 'no' been completed?
- Is index in progress?
- Is length of project table complete?

Typical Sections

- Have comments from 30% submittal been addressed?
- Have items from 30% checklist marked as 'no' been completed?
- Has pavement design been obtained and incorporated?
- Is pipe spacing detail shown?

Plan-Profile Sheets (Includes Drainage Plan-Profiles Where Appropriate)

- Have comments from 30% submittal been addressed?
- Have items from 30% checklist marked as 'no' been completed?
- Has preliminary required right-of-way (including construction and drainage servitude) been shown?
- Have limits of construction been shown?
- Are cross drain locations identified (disposition of existing structure, required structure, station, size, type, drainage area, design Q, design headwater or headwater elevation, differential head, velocity, direction of flow, flow lines, erosion control measures, bedding material)?
- Are required side-drains shown (station, size, type, drainage area)?
- Are required bridge structures shown (hydrologic information, begin/end bridge)?
- Are ditch grades shown?
- Are limits of superelevation shown (begin/end transition, begin/end superelevation, super rates, normal crown)?
- Are finished roadway elevations shown at begin/end of each sheet?
- Are construction notes in progress (removal items, required PCCP, AC, fencing, gates, etc)?
- Are required driveways shown (station, width and type)
- Are lane widths & dimension to centerline shown at begin/end of each sheet?
- Are geometric details at intersections & crossovers shown?
- Are detour alignments shown?
- Are proposed cross drains and storm drains shown and labeled in profile?

Existing Drainage Map

- Is scale appropriate?
- Are sizes and drainage areas of all existing structures shown?

QUALITY MANAGEMENT PLAN

CONTRACT NO. 4400027735

STATE PROJECT NOS. H.005184, H.014054, H.014056

Yes No

Design Drainage Map

- Is scale appropriate?
- Is proposed horizontal alignment shown and labeled (begin/end station)?
- Is proposed hydrologic information shown (drainage area, watershed boundaries, flow direction, design storm, design Q, design HW, method used)?
- Are required structures numbered?

Geometric Details

- Have plan/profiles showing detours been provided?
- Have all details of crossovers, turnouts, intersections, and islands been provided at appropriate scale?
- Do details include lane widths, deltas, baseline ties to centerline, north arrow, etc.?
- Are traffic data and turning movements shown where appropriate?
- Survey

Sequence of Construction/Construction Signing Sheets (In Progress)

- Are the sheets set up at an appropriate scale?
- Is existing roadway, proposed alignment and stationing shown?
- Are intersecting roads shown and labeled?
- Is north arrow and scale shown?

Completed By:
Date:

F3: 90% Preliminary Roadway Plans QA Checklist

Note: If sufficient changes have occurred since 60% submittal, need to complete 60% checklist again.

Give comment on separate sheet for any item marked 'no'.

Yes No

Title Sheet

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?
- Is index in complete & accurate?
- Are earthwork totals shown?

Typical Sections

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?

Summary Sheets

- Has complete listing of current pay items been provided?
- Has construction cost estimate been completed?

Plan-Profile Sheets (Includes Drainage Plan-Profiles Where Appropriate)

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?
- Are construction notes complete (removal items, required PCCP, AC, fencing, gates, etc)?
- Is earthwork shown at maximum 200' spacing?

Existing Drainage Map

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?

Design Drainage Map

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?

Geometric Details

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?

Sequence of Construction/Construction Signing Sheets

- Have comments from 60% submittal been addressed?
- Have items from 60% checklist marked as 'no' been completed?
- Does phasing sufficiently allow for construction of all proposed improvements?
- Are traffic flow arrows shown?
- Are required construction signs shown?

Completed By:

Date:

F4: ACP Final Roadway Plans QA Checklist

Note: If significant changes have occurred since Plan in Hand, need to complete 90% Preliminary Plan checklist again.

Give comment on separate sheet for any item marked 'no'.

Yes No

General Items

- Have all comments since plan in hand been addressed?
- Have items from 90% preliminary plan checklist marked as 'no' been completed?
- Is index of sheets complete and accurate?
- Are all standard plans required included – ensure that latest revision is used?
- Has a detailed check of all sheets added since plan in hand been completed?
- Have all design exceptions required been approved and listed on the Title Sheet?
- Have environmental commitments been incorporated?

Summary Sheets (Includes Drainage Summary Sheets)

- Are tables provided for all major items of work?
- Are tables arranged in accordance with latest plan preparation manual?
- Are tables in agreement with design quantity calculations?
- Is design calculation report and hydraulic report provided (neatly arranged, checked, bound, etc.)?
- Are all pay items in agreement with latest standard pay item list (item number, description, number of decimals, etc.)?
- Is side drain table and list of abbreviations shown on last drainage summary sheet?
- Is final construction cost estimate complete?

Completed By:

Date:

Appendix G: LADOTD Bridge Design QC/QA Plan

In addition to the **QC/QA** procedures described in this **QMP**, **LADOTD Bridge Design and Evaluation Manual (2014)** have established requirements for all bridge design and rating projects. This **Appendix G** has been developed with respect to the current **LADOTD Bridge policies**. Stantec's **QMP** program is well aligned with the **LADOTD Bridge Policy**.

Consistent with our **QMP** program, Stantec clearly understands, and believes, that the responsibility for Quality in our services and deliverables is **100% ours**. We also recognize that expectation of LADOTD Bridge and its staff is only to provide oversight on the design and rating process. For typical LADOTD Bridge assignments, the following Checklists are incorporated and become the requirement of the project/assignment. Where discrepancies arise between the Stantec QMP and the LADOTD Bridge Design QC/QA Plan, the LADOTD Bridge Design QC/QA Plan shall govern.

- G1: LADOTD Bridge Design (Design Criteria Checklist)
- G2: LADOTD Bridge Design (Final Calculation Book Checklist)
- G3: LADOTD Bridge Design (QA Information Packet Checklist)
- G4: LADOTD Bridge Design (QC/QA Certification)
- G5: LADOTD Bridge Design (Peer Review Resolution Agreement)
- G6: LADOTD Bridge Design (Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist)

G1: LADOTD Bridge Design (Design Criteria Checklist)

Design criteria for each project shall include, but not limited to, the following sections:

- **Cover sheet** - The following information must be included on the cover sheet:
 - LADOTD project number
 - Project name
 - Revision date
 - The Supervisor or Team Leader's signature and date
- **Governing Design and Construction Specifications and Other References** - A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.
- **Design Assumptions and Design Exceptions** - All design assumptions and design exceptions received must be included in this section along with supporting documents.
- **General Information** - The general information as listed below should be included in this section:
 - Bridge information (no. of bridges, bridge clear width, length, no. of lanes, lane width, shoulder width, etc.)
 - Road information (roadway classifications, design speed, traffic data, etc.)
 - Vertical datum
 - Vertical and horizontal clearances
 - Other relevant information
- **Hydraulic Design Criteria** - All hydraulic design criteria (design year, design water elevations, scour depth and scour elevation, etc.) shall be included in this section and the information shall be provided by the Hydraulic Engineer.
- **Design Factors** - The ductility factor Γ_D , redundancy factor Γ_R , and operational importance factor Γ_I shall be listed in this section.
- **Design Loads** - All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.
- **Limit States** - All applicable limit states for this project shall be listed in this section.
- **Bridge Barrier** - The design criteria, types, and test levels for bridge barriers shall be listed in this section. Standard plans and special details should be listed if they are utilized.
- **Guardrail** - The design criteria, types, and test levels for guardrails shall be listed in this section. Standard plans and special details should be listed if they are utilized.
- **Approach Slab** - Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Deck and Deck Drainage** - All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.

- **Bearing** - All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Joint** - All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Superstructure** - All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Substructure** - All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Piles and Drilled Shafts** - All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Geotechnical Design** - All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans and special details should be listed if they are utilized.
- **Mechanical Design** - All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.
- **Electrical/Lighting Design** - All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.
- **As-Designed Bridge Rating Criteria** - All as-designed bridge rating criteria shall be included in this section.
- **Software** - All software used for design and check shall be included in this section.

G2: LADOTD Bridge Design (Final Calculation Book Checklist)

The final calculation book for each project shall include, but not limited to, the following sections:

— **Cover Sheet** - The following information must be included on the cover sheet:

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

— **Final Calculation Book Check List**

— **QC/QA Certifications**

— **Peer Review Resolution Agreement (if peer review is performed)**

— **Design Criteria**

— **Final Hydraulic Analysis Report from Hydraulic Engineer**

— **Final Geotechnical Analysis Report from Geotechnical Engineer**

— **Superstructure Design Calculations**

— **Substructure Design Calculations**

— **Quantity Calculations**

— **Special Provisions/NS-Items**

— **Construction Cost Estimate**

— **As-Designed Rating Report**

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

Consultants shall submit the final calculation book to LADOTD bridge task managers; the submittal shall be on a CD or Flash Drive or placed to a designated ProjectWise folder including the following information:

— **A PDF File of the Calculation Book**

— **All Electronic Design Files**

— **A PDF File of the As-Designed Rating Report Only**

The final calculation book for in-house projects shall include the same files listed above for consultant projects. The final calculation book and other final design documents for all projects including in-house and consultant projects shall be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

G3: LADOTD Bridge Design (QA Information Packet Checklist)

QA INFORMATION PACKAGE CHECKLIST (Bridge Design Section QC/QA Policy – Appendix C)			
PROJECT NO.:			
Project Description:			
PREPARER			
REVIEW LEVEL	<input type="checkbox"/> 95% Final	<input type="checkbox"/> 98% Final	<input type="checkbox"/> PS&E
QA PACKAGE CHECKLIST			
Are the CALCULATION BOOKS included?			<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the PLANS included?			<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the SPECIAL PROVISIONS included?			<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the COST ESTIMATE included?			<input type="checkbox"/> Yes <input type="checkbox"/> No
Are there OTHER DOCUMENTS included?			<input type="checkbox"/> Yes <input type="checkbox"/> No
OTHER DOCUMENTS:			
PREPARER SIGNATURE	_____		DATE:

G4: LADOTD Bridge Design (QC/QA Certification)

QC/QA CERTIFICATION (Bridge Design Section QC/QA Policy – Appendix D)						
Team Members	Name	LA PE No.	Responsibility			Signature
			Plan Sheet(s)	Special Provision(s)	Cost Estimate	
Designers						
Design Checkers						
Detailers						

QC/QA CERTIFICATION (Bridge Design Section QC/QA Policy – Appendix D)						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotech Engineer						
Hydraulic Engineer						
EOR						

QUALITY MANAGEMENT PLAN
CONTRACT NO. 4400022901
STATE PROJECT NOS. H011094 AND H012005
F.A.P. NOS. H011094 AND H012005
ROUTES LA 3094 AND US 80
CADD PARISH

G5: LADOTD Bridge Design (Peer Review Resolution Agreement)

Project No.:
Project Name:

We, the undersigned Peer Reviewer, Supervisor or Team Leader of the design team, and LADOTD Representative for this project, have reviewed and accepted the attached peer review resolutions. We certify that the peer review has been performed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	Signature
Peer Reviewer		
Supervisor or Team Leader		
LADOTD Representative		

G6: LADOTD Bridge Design (Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist)

A kick-off meeting with the Consultant's bridge design team shall be initiated by the LADOTD Bridge Design Task Manager once the project is awarded. The meeting agenda shall include, but not limited to, the following items:

- Introduce LADOTD Bridge Task Manager and the Consultant's Key Team Members (The Supervisor or Team Leader and Key Designers/Design Checkers/Reviewers)
- Discuss Consultant's Staffing Plan and Implementation of QC/QA Plan Document (The staffing plan should include names and responsibilities of the designers, detailers, checkers, reviewers, and the EOR.)
- Determine Schedules for Project Submittals (Design Criteria, TS & L, 30%, 60%, 90%, 100% of Preliminary Plans and Final Plans, Final Calculations, etc.)
- Share Expectations and Consultant Rating Criteria (Consultant rating will be performed for all project submittals shown on the project submittal schedule.)
- Discuss Design Criteria
- Discuss Budget, Supplemental Requests, Invoices, and Importance of Avoiding Claims (Staff shown on invoices will be reviewed in accordance with the staffing plan.)

Appendix H: Non-Conformance Report Form

NON-CONFORMANCE REPORT

NCR # _____

Activity #: _____

Activity: _____

Location: _____

NCR Prepared By: Name: _____ Date: _____
Company: _____

NCR Given to: Name: _____ Date: _____
Company: _____

Non-Conformance Description: _____

No Impact or Assessed Impact: _____

No Action or Action Required: _____

References/Attachments _____

Action(s) To Be Implemented By (Name & Date): _____

Action(s) Completed By
(name & signature): _____ Date: _____

Remarks: _____

Date copied: _____ Fax No. _____

Comments: _____

Guidelines for NCR use

1. NCRs record non-conforming work incorporated into the project and could include, but not be limited to, deviations from design requirements, unexpected soil conditions, material defects, dimensional defects or other deviations in the work.
2. NCRs do not replace routine inspections, diary entries, or materials delivery or testing reports, but can refer to them.
3. Ideally, the person whose actions or decisions create the need for a NCR will issue it, but in other cases the person who finds the non-conformance issues the NCR.
4. The person who issues the NCR ensures it is completed to the point where a copy can be sent within 24 hours to the Quality Assurance Manager.
5. It is implicit that if non-conforming work is not to be repaired or replaced (i.e., no assessed impact) the finished deliverable will meet project requirements.
6. The assessment of the situation will include a review of whether or not the non-conformance is likely to re-occur and if so, a description of the measures that will be implemented to prevent this.
7. The NCR event should be resolved at the lowest appropriate decision making level and escalated only if necessary. The NCR process is not meant to replace quick decision-making in the field or replace communications between the parties involved.
8. The status of unresolved NCRs shall be reviewed in any regular progress meetings and in the Quality Audit summaries done by the Project Quality Assurance Manager.

22. **Sub-consultant Information:**

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Lazenby & Associates, Inc.	2000 N. Seventh Street West Monroe, LA 71291	Paul Fryer, PE, PLS pfryer@lazenbyengr.com	318.387.2710
NTB Associates, Inc.	525 Louisiana Ave., Shreveport, LA 71101	Bryan Bunch, PLS bbunch@ntbainc.com	225.751.4002
EJES Incorporated	201 Wilkinson Street Shreveport, LA 71104	Tanita Gilbert-Baker, PE tbaker@ejesinc.com	318.670.7375
GeoEngineers, Inc.	11923 Sun Belt Court Baton Rouge, LA 70809	Larry Sant, PE lsant@geoengineers.com	225.293.2460

23. **Location:**

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement.



Design with Community in Mind