STATEMENT OF QUALIFICATIONS

Presented to:

Louisiana Department of Transportation and Development (DOTD)

Contract No. 4400024461

Contract For LA 385:
Ryan Street Intersection Improvements

State Project No. H.012685

F.A.P. No. H012685

Route: LA 385 / LA 3186

Calcasieu Parish

August 9, 2022

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Client Focused. Technology Driven.

August 9, 2022

Louisiana Department of Transportation and Development
1201 Capitol Access Road
Baton Rouge, LA 70802

VIA EMAIL
DOTDConsultantAds80@la.gov

Re: Contract No. 4400024461; Contract for LA 385: Ryan Street Intersection Improvements
State Project No. H.012685; F.A.P. No. H012685; Route: LA 385 / LA 3186; Calcasieu Parish

Dear Sir or Madam:

C. H. Fenstermaker & Associates, L.L.C. is pleased to submit our Statement of Qualifications to provide engineering and related services to design roadway and traffic/signal improvements along LA 385 and LA 3186 to the Louisiana Department of Transportation and Development (DOTD). Our staff possesses the desired capabilities needed to assist DOTD with all aspects of the services presented in Attachment A – Scope of Services.

Joining Fenstermaker are the respected firms of Intelligent Transportation Systems LLC (ITS, LLC), providing expertise in traffic and Wingate Engineers, LLC (Wingate), a registered Disadvantaged Business Enterprise (DBE), providing expertise in roadway. **Fenstermaker and ITS, LLC have worked together on similar intersection and signal improvements in the Lake Charles area including the preliminary design of an adaptive signal system along Ryan Street.**

The Fenstermaker Team will provide DOTD with the following benefits to ensure successful project completion:

- ✓ ***Our Lake Charles office is located less than one mile, within walking distance, from the project site***
- ✓ ***Key staff are located in Lake Charles and Baton Rouge and are extremely familiar with the Ryan Street/McNeese Street corridor***
- ✓ ***Fenstermaker and ITS, LLC have successfully teamed on large scale traffic impact analysis studies and signal designs within the Lake Charles metropolitan area***
- ✓ ***Fenstermaker has extensive experience with LADOTD, City of Lake Charles, other area agencies, and utility companies that provide service along the Ryan St. corridor***

Thank you for the opportunity to present our credentials and we look forward to hearing from you. Should you have any questions regarding contractual obligations, please contact Angelle Guilbeau, who is authorized to contractually obligate the firm. If you have any questions regarding our submittal or qualifications, please do not hesitate to contact Jessica Pousson, P.E., Project Manager, at (337) 419-1896.

C. H. FENSTERMAKER & ASSOCIATES, L.L.C.

Jessica Pousson

Angelle Guilbeau

Jessica Pousson, P.E.
Project Manager
jessicat@fenstermaker.com
(337) 419-1896

Angelle Guilbeau
Director of Risk Management and Compliance
angelleg@fenstermaker.com
(337) 237-2200

Attachment

Sections 1-13

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DOTD FORM: 24-102

(Revised March 1, 2022)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	Contract for LA 385: Ryan Street Intersection Improvements
2. Contract number(s) as shown in the advertisement	Contract No. 4400024461
3. State Project Number(s), if shown in the advertisement	State Project No. H.012685
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	C. H. Fenstermaker & Associates, L.L.C.  C. H. Fenstermaker & Associates, L.L.C.
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. 0000311 - Engineering VF. 0000154 - Survey
6. Prime consultant mailing address	4045 Ernest Street, Lake Charles, LA 70605
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	4045 Ernest Street, Lake Charles, LA 70605
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Jessica T. Pousson, P.E., Project Manager, (337) 419-1896, jessicat@fenstermaker.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Angelle Guilbeau, Director, Risk Management and Compliance, (337) 237-2200, angelleg@fenstermaker.com

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

12. Past Performance Evaluation Discipline Table:

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

The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. The crosswalk from the old categories to the new categories can be found at the link below:
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New%20Evaluation%20Disciplines.pdf. (same link as in the advertisement)

Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. 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. (Add rows and columns as needed)

Evaluation Discipline(s)	**% of Overall Contract**	**C. H. Fenstermaker & Associates, L.L.C. (Prime)**	**Intelligent Transportation Systems, LLC**	**Wingate Engineers, LLC (DBE)**	**Each Discipline must total to 100%**
Road	63%	96%		4%	100%
Traffic	8%		100%		100%
ITS	29%		100%		100%
Identify the percentage of work for **the overall** contract to be performed by the prime consultant and each consultant.					
Percent of Contract	100%	60%	37%	3%	------

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (xxxx)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
C. H. Fenstermaker & Associates, L.L.C.  C. H. Fenstermaker & Associates, L.L.C.	Administrative		2
	Biologist/Wetlands		1
	CADD-Operator		2
	Clerical		2
	Engineer	3	12
	Engineer Intern		15
	Environmental Pro		3
	GIS Analyst		2
	Inspector		4
	Inspector – Certified		3
	Inspector - Lead		1
	Instrument Man		7
	Party Chief		8
	Planner		2
	Professional		2
	Project Office Manager	1	2
	Principal	1	3
	Rodman		3
	Senior Technician		8

	Supervisor – Eng	2	4
	Supervisor – Other		2
	Surveyor	2	3
	Technician		8
Intelligent Transportation Systems, LLC	Principal	1	2
	Supervisor Engineer	2	2
	Engineer	1	2
	Engineer Intern	1	1
	Technician		6
	Other		2
Wingate Engineering, LLC	Engineer	1	1
	Engineer Intern	1	2
	Principal		2
	Planner		1
	CADD Drafter		2
	CADD Technician		2
	Inspector Lead		2
	Inspector		2
	Administrative		2

(Add rows as needed)

Sections 14-16

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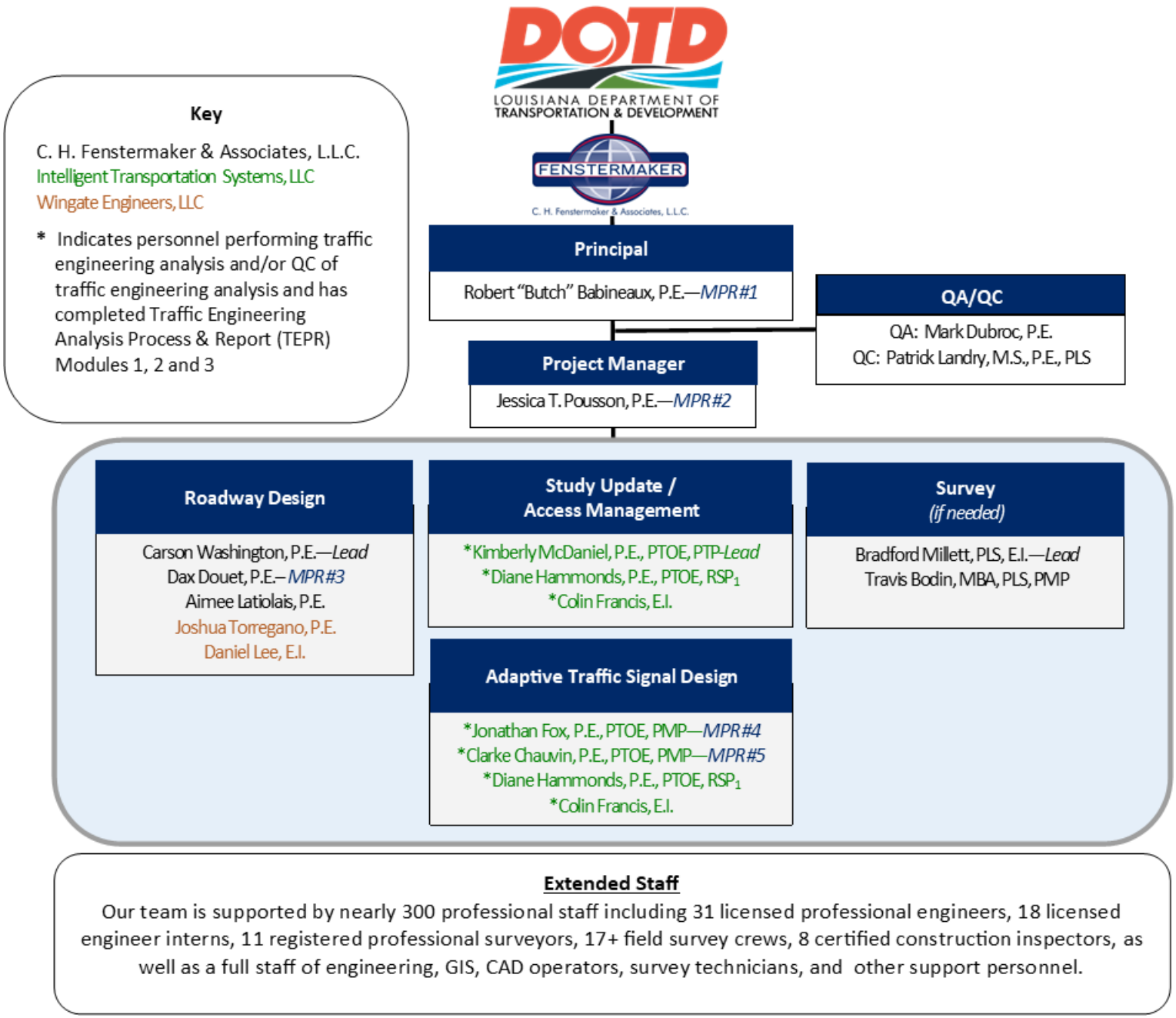
14. Organizational Chart:



Extended Staff

Our team is supported by nearly 300 professional staff including 31 licensed professional engineers, 18 licensed engineer interns, 11 registered professional surveyors, 17+ field survey crews, 8 certified construction inspectors, as well as a full staff of engineering, GIS, CAD operators, survey technicians, and other support personnel.

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.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Robert "Butch" Babineaux, P.E.	C. H. Fenstermaker & Associates, L.L.C.	Professional Civil Engineer / No. PE.0023626	LA	03/31/2024
2	Jessica T. Pousson, P.E.	C. H. Fenstermaker & Associates, L.L.C.	Professional Civil Engineer / No. PE.0043716	LA	03/31/2024
3	Dax Douet, P.E.	C. H. Fenstermaker & Associates, L.L.C.	Professional Civil Engineer / No. PE.0030170	LA	09/30/2022
4	Jonathan Fox, P.E., PTOE, PMP	Intelligent Transportation Systems, LLC	Professional Civil Engineer / No. PE.0033277 PTOE No. 2329	LA	09/30/2023 11/07/2022
5	Clarke Chauvin, P.E., PTOE	Intelligent Transportation Systems, LLC	P.E. No. 41770 PTOE No. 4337 IMSA No. BE_125780	LA	09/30/2023 11/20/2023 09/18/2022

(Add rows as needed)

16. Staff Experience:

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

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Robert "Butch" Babineaux, Jr., P.E.	Years of relevant experience with this employer	7	
Title	Operation Leader, Lake Charles	Years of relevant experience with other employer(s)	32	
Degree(s) / Years / Specialization		B.S. / 1983 / Civil Engineering		
Active registration number / state / expiration date		PE #23626 / LA / 03-31-2024		
Year registered	1990	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Principal / MPR #1		

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 time specified in the applicable MPR(s).

Mr. Babineaux is Fenstermaker's Lake Charles Operations Leader and has over 39 years of experience providing transportation engineering and planning services to local, state, and federal governments in Louisiana, Texas and several other states. He has served as project manager or principal-in-charge of roadway and intersection design projects, traffic signalization, signing and pavement marking improvements, statewide and metropolitan area transportation plans, major corridor feasibility and environmental studies, and comprehensive traffic engineering and transportation planning programs involving all modes of transportation. Mr. Babineaux is a native of Lake Charles. Early in his career, he worked for the DOTD and served as City Traffic Engineer for Lake Charles. Butch also worked for a national consulting engineering firm in Houston for 30 years where he served in various positions including project manager for major transportation projects, Houston Office Manager and Client Service Leader for transportation agencies and organizations in Louisiana and Texas.

Butch has managed and provided transportation engineering and planning services to federal, state and local governments as well as private sector entities throughout the United States. He has been involved in multi-state and statewide transportation programs and the planning and design of transportation improvements in urban and rural areas as well as for major developments including central business districts, convention centers, stadiums, shopping centers, casinos, and military installations. His project experience includes various modes of passenger and freight transportation including highways, managed lanes/toll roads, railroads, trucking, ports, airports, transit, and bicycle and pedestrian facilities. Examples of his Louisiana project experience include the Louisiana Statewide Transportation Plan; metropolitan transportation plans for Lafayette, Baton Rouge and Shreveport/Bossier City; major corridor mobility and feasibility studies along I-10, I-12, I-49, US 190, and LA 1; and comprehensive transportation engineering/planning studies for major developments in the downtown areas of New Orleans, Monroe, Shreveport and Bossier City. He is also serving as principal for several CPPJ projects including the Ham Reid Road Extension and Regional Watershed Planning program as well as several City of Lake Charles projects including the Drainage Ditch Evaluation and Lake Street and Lisle Peters Road Sidewalk projects. His experience includes watershed management and drainage impact studies, roadway and intersection design projects, statewide and metropolitan area transportation plans, major corridor feasibility and environmental studies, and comprehensive traffic engineering and transportation planning programs. He has extensive experience in agency and stakeholder involvement including the development and successful implementation of public involvement plans, facilitation of public/stakeholder meetings, preparation of project newsletters, websites, and other public outreach and agency coordination activities. Mr. Babineaux has over 35 years of experience and has been responsible for managing a broad range of professional services including:

- Comprehensive Traffic Engineering and Transportation Planning Programs
- Urban, Regional and Statewide Transportation Plans

• Major Corridor Feasibility, Mobility and Environmental Studies • Freight and Intermodal Projects • Urban Area Freeway and Interchange Studies • Bridge Feasibility Studies • Railroad Grade Crossing Studies • Traffic Impact, Access and Parking Studies • Traffic Signalization, Signing and Pavement Marking Improvements • Roadway, Intersection and Roundabout Design • Traffic Signal Design • Extensive Stakeholder/Public Outreach Programs	
05/15-07/16	**DOTD Permit No. 153351, 153352, 153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements including CE&I (LA384 & LA385) (Calcasieu Parish, LA):** Mr. Babineaux served as principal for this $22 million traffic mitigation/DOTD permit project that included construction of roadway and drainage improvements at the following intersections in south Lake Charles: Big Lake Road (LA 384)/Tank Farm Road, and LA 384/Lincoln Road and Gulf Highway (LA 385)/Lincoln Road. Project included a traffic impact study, surveying, design and construction management and inspection services. This project also involved coordination with local, state, and federal agencies to obtain required permits as well as close coordination with several utilities regarding relocation of existing facilities impacted by the proposed roadway improvements.
06/15-01/19	**DOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA):** This contract includes engineering and consulting services for the completion of various aspects of the Sasol Chemicals (USA) LLC–Lake Charles Chemicals Project. Fenstermaker was responsible for the engineering design of the 2.8-mile heavy haul route, several intersections and drainage improvements, utility coordination and relocations, surveying and mapping, environmental and driveway permitting, and construction engineering and inspection services. Mr. Babineaux served as Principal and was involved in reviewing design plans and extensive agency coordination.
07/15-06/19	**Calcasieu Parish Ham Reid Road Extension Design (Calcasieu Parish, LA):** Mr. Babineaux serves as principal for this Calcasieu Parish Police Jury project that includes the design of an approximate 1-mile extension of Ham Reid Road from Elliott Road and Big Lake Road (LA 384) in south Lake Charles. This project includes the design of roundabouts at the Elliott Road and Big Lake (LA 384) intersections and incorporation of Low Impact Development (LID) drainage features. Total construction cost estimated at $10 million.
01/18-01/20	**City of Lake Charles – 2018 Sidewalk Construction (Calcasieu Parish, LA):** Mr. Babineaux served as principal for this project, which included the design of sidewalks along Lake Street, Sale Road, and Lisle Peters Road in Lake Charles. Services included topographic surveys, design, DOTD permits, utility relocations/coordination, subsurface drainage, and a retaining wall. This project followed Americans with Disabilities Act (ADA) standards for walking paths, and both City of Lake Charles and DOTD engineering design standards.
05/12-03/15	**Deputy Project Manager, 2015 Louisiana Statewide Transportation Plan Update (Statewide, LA):** Mr. Babineaux served as deputy project manager for this comprehensive, multi-modal statewide transportation plan completed for DOTD. This statewide transportation plan included extensive public/stakeholder involvement, addressed both passenger and freight transportation demands and needs through the year 2030 and included all transportation modes and elements: highways, aviation, railroads, trucking, ports & waterways, surface passenger transportation, public transit, intelligent transportation systems (ITS), bicycle & pedestrian facilities, and intermodal connections.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**		
Name	Patrick "Pat" Landry, M.S., P.E., PLS	Years of relevant experience with this employer	1
Title	Construction Administrator	Years of relevant experience with other employer(s)	37
Degree(s) / Years / Specialization		M.S. / 1989 / Civil Engineering B.S. / 1984 / Civil Engineering	
Active registration number / state / expiration date		PE #23442 / LA / 09-30-2023	
Year registered	1989 Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Quality Control	

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 time specified in the applicable MPR(s).
Pat Landry, P.E., PLS is a Senior Construction Administrator and Inspector, as well as a licensed professional engineer and professional land surveyor with over 38 years of experience. Much of his experience comes from his 34 years of employment with the DOTD where he reached the level of Engineer 9 – District Engineer Administrator. His role with the DOTD was a contributing factor to the successful operation and maintenance of the transportation network in Calcasieu, Allen, Beauregard, Cameron, and Jefferson Davis Parishes. He served as the appointing authority responsible for planning, managing, directing, and evaluating the district engineering functions serving five parishes in the southwest portion of the state. He previously supervised a staff of professional, multi-disciplined engineering supervisors, paraprofessional, and technical engineering employees (6 direct reports/24 indirect reports for a total of 30 funded TO positions) in the district engineering unit comprised of: District Design and Plan Delivery, Water Resources, District Material Laboratory Testing, District Right-of-Way Permits, Project Permit Construction Management, Utility Relocation, Rail-Road Crossing Construction and Maintenance Coordination, and District Road Transfer Program.	
03/21-current	**Ham Reid Road Extension (Calcasieu Parish, LA):** This is a two-phase, $14.25 million construction project that includes a unique 1-mile asphalt roadway corridor, incorporating walkability and green infrastructure. The corridor includes a 2-lane (1-lane in each direction with a median) boulevard section with intersection improvements including roundabouts. Access management and connection to local roads were considered during the project layout. Mr. Landry is responsible for reviewing construction plans, providing construction administration, supervising inspection, and coordinating utility relocation and conflict resolution.
06/21-current	**Old Spanish Trail and Evergreen Road Intersection Phase II (Calcasieu Parish, LA):** Fenstermaker will provide engineering design services and construction administration and inspection services for Sasol Chemicals (USA) LLC's required improvements to the intersection of Old Spanish Trail and Evergreen Road required by Calcasieu Parish. The improvements will include an additional dedicated turn lane and drainage improvements.
02/22-current	**2019 City of Lake Charles Sidewalk Project (Calcasieu Parish, LA):** The 2019 projects involved the design of five separate sidewalk location along existing streets within the city of Lake Charles which included the installation of subsurface drainage and a retaining wall. This project dealt with identifying utility conflicts, following Americans with Disabilities Act standards for walking paths, and both City of Lake Charles and DOTD engineering design standards.
03/21-current	**Coach Williams Blvd Extension (Calcasieu Parish, LA):** This project consists of the design of a $20 million – 3-mile roadway extension of Coach Williams to connect to Houston River Rd (LA 379). The new roadway includes a two-lane open ditch typical section with a roundabout, railroad crossing, Sabine River Authority Canal crossing, and will traverse through multiple wetland areas and will traverse over abandoned borrow pits. Mr. Landry is responsible for reviewing construction plans, providing construction administration, supervising inspection, and coordinating utility relocation.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Mark Dubroc, P.E.	Years of relevant experience with this employer	2	
Title	Senior Engineer	Years of relevant experience with other employer(s)	39	
Degree(s) / Years / Specialization		B.S. / 1980 / Civil Engineering		
Active registration number / state / expiration date		PE #22618 / LA / 03-31-2023		
Year registered	1987	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Quality Assurance		

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 time specified in the applicable MPR(s).
	Mr. Dubroc is a Senior Engineer with over 41 years of professional civil engineering experience. As Principal of Dubroc Engineering, Inc. for 23 years, Mr. Dubroc gained extensive experience in civil engineering consulting, with a wide variety of clients and projects including urban and rural roadway and drainage designs, highway bridge design, solid waste transfer facilities, site planning, residential land developments, municipal water and sewer collection systems, and various other civil and structural design projects. Most recently, Mr. Dubroc served as Public Works Director of Lafayette Consolidated Government, where he managed 335 Public Works employees, with an operating budget of $58 million, an annual Capital Improvement Program of $50 million, and a 5-Year Capital Plan budget of $250 million, which included 375 projects. He managed the Capital Improvements Division, that included the Design & Development Section, ROW Section, Project Control Section and the Estimates and Administration Section. He also managed the Operations Divisions, which included street, drainage and vehicle maintenance divisions, and the Traffic and Transportation Division responsible for traffic engineering, traffic maintenance (signs and markings), traffic signals maintenance transit operations, and parking.
01/21-02/22	**LIP JV Parking and Roadway Improvements (Calcasieu Parish, LA):** Fenstermaker was contracted by LIP JV to provide engineering design, surveying, construction administration, and inspection services for parking and roadway pavement improvements. Mr. Dubroc provided Quality Assurance of the design plans and specifications. He also provided project management and coordination, assisted with layouts, planning, scheduling, cost estimates, and weekly progress reports.
03/16-present	**Apollo Rd at LA 93 (Dulles Dr) Roundabout (Lafayette Parish, LA):** Fenstermaker was selected to provide engineering services to the City of Scott to extend Apollo Road to Dulles drive. This $ 14 million construction project included two miles of a four-lane boulevard and eight-foot sidewalks to accommodate both bicyclist and pedestrians. The new roadway intersected LA 90 and LA 93, which were designed for a bow-tie intersection and roundabout, respectively. Mr. Dubroc performed the quality assurance review for the project plans.
08/03-06/17	**S.P. No. H.005508 Verot School Rd. Urban Section (LA 339) Widening and H.005698 Drainage Outfalls (Lafayette, LA):** Mr. Dubroc served as the Principal and Project Manager for this $44.2 million project for the widening of 3.3 miles of rural 2-lane open ditch highway to urban 4-lane median-divided and 5-lane arterial roadway with extensive subsurface drainage systems, including major drainage improvements to 3 extensive subsurface drainage systems. Mr. Dubroc provided design engineering for drainage, geometric designs, structural design of culverts, Topographic and ROW Surveys and maps, and preliminary and final plans for this LADOTD project.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Jessica T. Pousson, P.E.	Years of relevant experience with this employer	8	
Title	Engineer	Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		B.S. / 2015 / Civil Engineering		
Active registration number / state / expiration date		PE #43716 / LA / 03-31-2024		
Year registered	2019	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Project Manager / MPR #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 time specified in the applicable MPR(s).
Ms. Pousson is a Professional Engineer whose responsibilities include civil design of various elements such as roadway design, design of roundabouts, traffic impact analysis, drainage design, hydraulic and hydrologic modeling, municipal engineering, and civil site design. Her experience also includes project management as well as public outreach coordination and development of various transportation, drainage, and construction documents. She has developed technical reports, construction estimates, and obtained permits from various agencies. She has served as the lead design engineer and project manager on various projects for private, state, and smaller municipal clients. Ms. Pousson is experienced in utilizing local, state, and federal design guidelines and requirements on various projects including MUTCD, AASHTO, FHWA, Louisiana Department of Transportation and Development (DOTD) standards, and other municipal ordinances. Ms. Pousson is proficient in ArcGIS, MicroStation, HEC-RAS, HEC-HMS, LADOTD's HYDRWIN, and AutoTURN and has attended the ATSSA Traffic Control Technician, Traffic Control Supervisor, and Certified Flagger training courses.	
05/14 - 02/17	**Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385): DOTD Permit No. 153351, 153352, 153353 (Calcasieu Parish, LA):** Ms. Pousson served as the Project Manager for the Calcasieu Point Development project. This project included evaluating construction traffic that will be generated by three LNG facilities, designing roadway improvements for three intersections to mitigate the additional traffic generated, and performing construction administration services. Ms. Pousson assisted in the analysis of the proposed traffic generated by the facilities and utilized SYNCHRO to model different scenarios for the LNG facilities' construction schedule and phasing. In addition to assisting roadway design efforts, Ms. Pousson revised drainage models based on updated local ordinances concerning drainage and municipal preferences based on agency coordination. She prepared Preliminary Plans and Final Plans in accordance with DOTD Design Standards. Ms. Pousson also coordinated with the client, contractor and subcontractor, Calcasieu Parish Police Jury, and DOTD throughout the project's construction concerning field conditions, engineering design parameters, and public outreach.
07/20-12/21	**2019 Sidewalk Construction (Calcasieu Parish, LA):** Fenstermaker designed over 13,000-ft. of sidewalks at multiple locations along various roadways. Sidewalks varied in width between 5-ft. and 6-ft., depending on available rights-of-way and servitudes. All existing sidewalks were brought up to ADA compliance standards. Crosswalks were proposed at intersections for pedestrian safety. To accommodate the proposed sidewalk improvements, subsurface drainage was required along the corridor, which was designed according to the DOTD Hydraulics Manual. Ms. Pousson provided Quality Control of plans and assisted with final plans, constructability review, and the preparation of bid documents.
03/21-ongoing	**Old Spanish Trail and Evergreen Intersection Phase II (Calcasieu Parish, LA):** Fenstermaker provided engineering design services and construction administration and inspection for Sasol Chemicals (USA) LLC's required improvements to this intersection. The improvements included an additional dedicated turn lane. Ms. Pousson is serving as a Project Engineer providing roadway and drainage design, reviewing and analyzing previous

	Traffic Impact Analysis reports, conducting meetings with the Parish and Sasol, coordinating with the geotechnical subconsultant and utility companies, and making plan revisions in preparation for the submittal to the client.
08/15 - 02/16	**Ham Reid Road Extension (Calcasieu Parish, LA):** This project includes the design of two roundabouts and a 1-mile roadway extension. Ms. Pousson assisted in preparing the Roundabout Justification Study, the design plans, and utility coordination.
05/14-01/16	**Sasol Chemicals (USA) LLC - Heavy Haul Route (Calcasieu Parish, LA):** This project involved widening an existing State Route through the City of Westlake and unincorporated areas of Calcasieu Parish west of Westlake. The project required coordination with local, state and federal agencies to obtain required permits, as well as multiple local utility companies regarding relocations of their facilities. Ms. Pousson assisted in preparing drainage design plans, signing and marking sheets, utility coordination, and field investigations.
08/17–Present	**Red Davis McCollister Road and South Park Drive Roundabout (Calcasieu Parish, LA):** Ms. Pousson is currently serving as Lead Design Engineer. Ms. Pousson coordinated with survey crews to obtain topographic survey and reviewed survey data to establish project baselines and limits. Jessica prepared horizontal and vertical alignments based on existing survey data and most current LIDAR available. She utilized AutoTURN to determine the necessary geometry criteria based on the client provided traffic requirements. Ms. Pousson also prepared project plan sheets including typical sections, plan/profiles, existing and design drainage maps, geometric details, signing and marking details, and cross section sheets. Ms. Pousson coordinated with Calcasieu Parish to obtain as-built information to evaluate existing drainage structures and hydraulic conditions. She utilized modeling software, including HYDRWIN, and developed proposed drainage layout following local ordinances and polices, including open ditch, cross drain, and box culvert design. Ms. Pousson prepared a drainage report containing the existing draining criteria, proposed ditch cross sections, structure sizes and respective drainage model results. She coordinated with Calcasieu Parish Police Jury concerning preliminary right of way layout based on project design and client preferred future needs and coordinated the preparation of the right of way plats. Jessica coordinated with a landscape architect concerning the landscaping design and drainage/irrigation of the center island that utilized LID (Low Impact Development) design criteria. Ms. Pousson also coordinated with the electric company's local office to develop a lighting design for the roundabout based on standards and criteria provided by the Parish. Ms. Pousson provided project management including scheduling meetings, preparing follow up meeting minutes, updating project schedules based on submittals and other project milestones.
10/18- Present	**S.P. H.012792 LA 675 Roundabout at ARA Access Road (Iberia Parish, LA):** Ms. Pousson serves as the Project Manager for the LA 675 Roundabout. This project includes designing a 5-legged roundabout which ties into a newly designed boulevard extension providing a connection from LA 3212 (Prairie Rd) to LA 675 (Jefferson Island Rd.). She prepared 60%, 95% and 100% Preliminary Plans for DOTD submittal. She analyzed the existing and proposed drainage and drafted a report containing the proposed ditch cross sections and structure sizes and respective HYDRWIN results. Ms. Pousson coordinated with state agencies, Iberia Parish Government, and utility companies for a plan in hand meeting to discuss the project's scope of work and constructability. Jessica prepared exhibits and informational resources as well as coordinated public outreach for the public meeting to inform the local community of the project limits and design features.
03/18 - 04/18	**Apollo Road – Old Spanish Trail to JB Road (Lafayette Parish, LA):** This project involved the design of the Apollo Road extension which will begin at the intersection of Apollo Road (LA 93) and Old Spanish Trail and proceed southerly for approximately two miles to the intersection of Dulles Drive and Rue De Belier. Ms. Pousson assisted with drainage design revisions, roadway plan revisions, and the bidding and contract phase.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Carson Washington, P.E.	Years of relevant experience with this employer	6	
Title	Engineer	Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization		B.S. / 2015 / Civil Engineering		
Active registration number / state / expiration date		PE #43722 / LA / 03-31-2024		
Year registered	2019	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design Lead		

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 time specified in the applicable MPR(s).
Mr. Washington is a Professional Engineer with 8 years of experience in project management, roadway design, drainage design, hydraulic and hydrologic modeling, design of roundabouts, municipal engineering, construction administration and inspection, utility coordination and public agency coordination. His experience includes the preparation of drainage maps, preliminary layout and design of utilities, drainage and roadways improvements, preparation of change orders and other construction related services, surveying, and cost estimates. Mr. Washington is proficient in AutoCAD Civil 3D, Microstation, Bentley InRoads, AutoTURN, ArcGIS, HEC-RAS, HEC-HMS, DOTD HYDRWIN, and KYPipe. He has attended the ATSSA Traffic Control Technician, Traffic Control Supervisor and Certified Flagger training courses.	
05/2021-Present	**Old Spanish Trail and Evergreen Intersection Improvements (Calcasieu Parish, LA):** Fenstermaker was contracted by Sasol Chemicals LLC to perform roadway intersection improvements along two parish roads to improve access to an existing Matheson Gas plant due to their expansion project. The improvement design included roadway geometrics, subsurface drainage system, water main relocation, and sewer force main relocation. Mr. Washington was responsible for QC of the proposed drainage system as well as the design engineer responsible for the water and sewer relocations.
09/22-Present	**Calcasieu Parish Transportation Initiative Traffic Engineering and Signal Design Services (Calcasieu Parish, LA)** Mr. Washington served as Deputy Project Manager and provided support for the transportation design and of the preparation and evaluation of the conceptual intersection design for eight identified projects. Mr. Washington was responsible for attending project meetings, preparing a DOTD environmental checklist, identifying land use constraints and impacts, development and layout of intersection concepts, identifying existing utilities, and preparing opinion of probable costs. The project utilized DOTD requirements and other accepted principles and standards in preparing conceptual design options for various intersection improvements to allow for the development of cost estimates, right-of-way impacts, and utility relocations. The main objective was to identify constructible geometric concepts that will accommodate traffic demands while minimizing impacts.
06/16 - 07/16	**DOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA):** Mr. Washington assisted with the construction closeout of the 2.4-mile heavy haul route that was utilized to transport the oversized modules from the Calcasieu River to the proposed plant site. It involved coordination with local, state, and federal agencies to obtain required permits, as well as multiple local utility companies regarding relocations of their facilities.
07/16 - 08/17	**Lake Charles LNG – CE&I Services (Calcasieu Parish, LA):** Fenstermaker was under contract with Trunkline LNG, responsible for CE&I for the Lake Charles LNG roadway construction and modifications. Mr. Washington was responsible for providing Construction Administration services including review of shop drawings, RFIs, and submittals. He oversaw Inspection Services by coordinating with testing services and reviewing installed quantities.
06/16-Present	**Ham Reid Road Extension (Calcasieu Parish, LA):** Mr. Washington is the Deputy Project Manager for the engineering design of the Ham Reid Road Extension between Elliott Road and LA 384 (Big Lake Rd), which includes

	roundabouts at both existing intersections. This project involved extensive utility coordination and required in-depth knowledge of both CPPJ and DOTD's roadway and drainage engineering design standards. A Low-Impact Development (LID) design was incorporated to minimize the impacts of the proposed improvement. Mr. Washington was responsible for utility and public agency coordination, design of new and existing roadway improvements, design of drainage improvements, development of various required reports, assisted in bidding, and performing Construction Administration duties.
04/19-05/21	**City of Lake Charles – 2018 Sidewalk Construction (Calcasieu Parish, LA):** This project involved the design of three separate sidewalk location along existing streets within the city of Lake Charles which included the installation of subsurface drainage and a retaining wall. This project dealt with identifying utility conflicts, following ADA standards for walking paths, and both City of Lake Charles and DOTD engineering design standards. Mr. Washington provided design and was responsible for the general layout of sidewalks, design of subsurface drainage, layout of construction documents, preparation of bid documents, and construction administration.
01/20-03/20	**Red Davis McCollister Road and South Park Drive Roundabout (Calcasieu Parish, LA)** This project consists of improving a four-way existing intersection with a single lane roundabout. Mr. Washington performed a pre/post analysis to determine the impacts of the proposed improvements on the existing site drainage.
09/20-05/21	**CPPJ Emergency Traffic Control Device Monitoring Services (Calcasieu Parish, LA):** Fenstermaker provided emergency traffic control device monitoring services after Hurricane Laura on September 27, 2020. The project consists of assessing and repairing over 11,000 traffic control devices for the Parish. Mr. Washington coordinated field assessments, scheduling of inspectors, and overseeing construction administration.
07/19–Present	**City of Lake Charles – 2019 Sidewalk Construction (Calcasieu Parish, LA)** This project involves the design of five separate sidewalk locations along existing streets with the city of Lake Charles which includes the installation of ADA-compliant compliant paths and walkways, subsurface drainage, and retaining walls. This project dealt with identifying utility conflicts, following ADA standards for walking paths, and both City of Lake Charles and DOTD design guidelines. Mr. Washington was lead design engineer responsible for layout of sidewalks and driveways, design of subsurface drainage, preparing and assisting with the bidding process, and aiding in construction administration duties.
02/20–Present	**CPPJ Farm Road Multi-Bridge Replacement and Roadway Improvement Project (Calcasieu Parish, LA)** This project consists of replacing two existing timber bridges located along Farm Road in Calcasieu Parish with precast concrete arch structures, design of roadway improvements for an existing limestone roadway, mill and overlay of existing asphalt roadway, and design of drainage elements such as open ditches and driveways culverts. The bridge structures were required to be designed in accordance with DOTD Off-System Bridge Design requirements. Mr. Washington served as the lead design engineer and was responsible for the design of the roadway and drainage elements, coordination with Gravity Drainage Districts and utilities, revising an existing HEC-RAS model with new bridge structures, preparation of roadside and bridge drainage reports, and preparation of bidding documents.
10/21-Present	**H.013517 E. St. Peter St Sidewalks (Carencro, LA):** The City of Carencro received Surface Transportation Program funding through the Acadiana Metropolitan Planning Organization to replace existing sidewalks, which were in poor condition and did not meet current ADA standards, with a new six-foot-wide concrete sidewalk at street level using retaining walls and incorporating new combination curb & gutter as well as ramps along E. St. Peter Street and N. Church Street. This project was in a high-traffic pedestrian area near City Hall and included in the AMPO 2035 Pedestrian Plan to provide a safe pedestrian environment through the Acadiana Metropolitan region. Mr. Washington served as the lead design engineer and was responsible for the design of the pedestrian facilities as well as modifications to the existing street drainage system.
04/22-Present	**Tech Drive (LA 544) at Railroad Avenue Railroad Trail Project H.014356 (Ruston, LA):** Fenstermaker was contracted by Tipton Architects to provide professional engineering design for improvements to pedestrian crossing and pedestrian signal equipment at the Tech Drive (LA 544) and Railroad Ave. intersection in coordination with Louisiana Tech University and the City of Ruston. Mr. Washington was responsible for providing engineering design support on the improvements of the geometric design of the pedestrian facilities at the intersection.

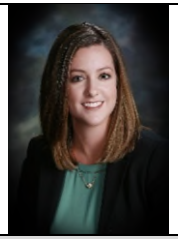
16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Dax Douet, P.E.	Years of relevant experience with this employer	25	
Title	Director, Engineer	Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization		B.S. / 1997 / Civil Engineering		
Active registration number / state / expiration date		PE #30170 / LA / 09-30-2022		
Year registered	2002	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design / MPR #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 time specified in the applicable MPR(s).
Dax Douet is an Engineering Director with over 26 years of professional civil engineering experience in design, planning, construction oversight, and project management. Mr. Douet's core experience is in roadway design, transportation corridor studies, line and grade studies, design of roundabouts, environmental assessments, both open channel and subsurface drainage systems, large one and two-dimensional hydrologic numerical modeling, municipal engineering, being a city engineer, public speaking, and project managing large complex, multi-disciplinary projects. Mr. Douet has served as the lead design engineer and project manager on a multitude of various transportation projects ranging from both urban and rural local, collector, and arterial roadways, to large interchange projects on the interstate system.	
11/13-06/15	**DOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA):** Mr. Douet directly participated as a Senior Design Engineer in the technical analysis. Mr. Douet determined geometric modifications needed for this existing roadway corridor to accommodate these long module transports from "off-tracking" the existing roadway pavement, while at the same time, considering roadway design standards for the overall safety of the corridor to the traveling public. Mr. Douet was also on the design team for the development of roadway construction plans in which he aided in the design of the project sub-surface drainage system, developed horizontal alignment modifications, and performed the project's overall Quality Control review of all plan submittals.
09/15-06/17	**DOTD Permit No. 153351, 153352, 153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385) (Calcasieu Parish, LA):** Mr. Douet served as the Engineer of Record for the design of three roadway projects as part of mitigation to the new proposed LNG plant. Mr. Douet was the Lead Roadway Design Engineer for the widening of Big Lake Rd (LA 384) at W. Lincoln Rd, Gulf Hwy (LA 385) at W. Lincoln Rd, and Big Lake Rd (LA 384) at Tank Farm Rd. Each of these three roadway corridors are 2-lane roadways. Mr. Douet also served as a technical advisor to the design team performing the drainage design.
01/13 - 03/17	**Nelson Road and Ham Reid Road Roundabout & Design (Calcasieu Parish, LA)** Calcasieu Parish Police Jury selected Fenstermaker to perform engineering design services for the construction of a roundabout at the intersection of Nelson Road and Ham Reid Road. Mr. Douet assisted with utility coordination and roundabout design.
02/22-Present	**S.P. No. H.012869 LA 182 (University) @ LA 723 (Renaud) Roundabout (Lafayette Parish, LA)** The goal of this project is to design a roundabout which realigns Renaud Drive and Stone Avenue to intersect with University Avenue. This project includes roadway design, hydraulic analysis and design, and utility design. Mr. Douet is the Project Manager.
01/17-02/22	**S.P. No. H.011235.5: I-49 South at Verot School Road (LA 339) (Lafayette, LA)** Mr. Douet is the Lead Design Engineer responsible for the widening of existing Verot School Road from Pinhook Road (LA 182) to existing US 90 from a 2-lane to a median separated 4-lane roadway facility. Mr. Douet was one of two lead design engineers responsible for the development of a project line and grade study aimed at developing strategies to widen this corridor

	to reduce right of way and impacts to existing infrastructure. Mr. Douet is also the Lead Engineer for the design of a multi-lane roundabout intersection at the new Verot School Rd intersection with South College Rd. In addition, Mr. Douet led the public outreach by coordinating and hosting a public meeting which followed DOTD procedures.
05/13-09/19	**S.P. No. H.010620: US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build (Lafayette Parish, LA)** Under the Design-Build Contractor, James Construction Group, Mr. Douet was the Lead Design Manager for the preparation of all engineering design components of the proposed upgrading of a portion of US 90 to a 6-lane controlled access facility to also include improvements to the existing east and westbound frontage road system, construction of a new 6-lane US 90 overpass structure over both Albertson Parkway and the existing BNSF railroad facility, and construction of all associated US 90 mainline ramps needed to connect these overpass structures and frontage roads. In this role, Mr. Douet was involved directly in every aspect of the design to include roadway, drainage, traffic, and bridge design as well as the design of Mechanically Stabilized Earth Walls needed to construct the US 90 mainline improvements within existing right of way. In this capacity, he was required to also review all construction related Request for Information to ensure that all responses meet the expectations of DOTD. Mr. Douet was the Engineer of Record for the final design and construction plans for Phase III of the project's roadway and drainage improvements to include developing calculations, meeting design code, development of design exceptions, and coordination of all QA reviews. Mr. Douet was also directly responsible for the management of four engineering sub-consultants on the design-build team to ensure that all design components met the overall goals and expectations of the project.
07/10-Present	**DOTD Permit No. 03030387: Kaliste Saloom Rd Widening, Intersection Improvements, Bridge and CE&I (LA3073 to LA733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA)** Mr. Douet is currently managing this $34 million project, which included fast-tracking all real estate appraisals, plats, and construction plans. Mr. Douet is the Lead Design Engineer for the widening of approximately 1.7 miles of Kaliste Saloom Road, an over-capacity major arterial roadway located in the center of Lafayette. Mr. Douet was directly responsible for the development of a line and grade study that allowed the LCG to choose between alternatives and determine the optimal locations for widening based upon impacts to businesses, cost of rights of way, and minimizing impacts to utilities. Mr. Douet led the design team for all three phases, as well as led the design efforts of a multi-lane modern roundabout and 5-girder span bridge structure within the project limits. Mr. Douet was the lead presenter at several public meetings attended by well over 75-100 members of the public and media, performed constructability reviews of all components of the plans by assessing sequencing of construction, understanding the critical path components of the project, and making recommendations to the design staff to adjust design elements to make construction efforts more efficient with live traffic loading. Mr. Douet continues to manage the construction effort.
02/18-Present	**S.P. No. H.006459 Roundabout at Churchpoint/Roddy Road (Ascension Parish, LA)** Mr. Douet is serving as the Engineer of Record on this project redesign. Due to funding restrictions, the project did not get constructed in a timely manner, and Ascension Parish tasked Fenstermaker in 2018 with updating the original submittals (Fenstermaker completed the original roundabout study, categorical exclusion, traffic analysis, geotechnical and pavement design, preliminary and final engineering plans in 2013). Mr. Douet oversaw the development of an updated intersection study and revised environmental categorical exclusion report. He ensured all other prior plan documents were updated in accordance with new DOTD standards including geotechnical and pavement design, engineering plans, drainage plans, right-of-way maps, and all other bid and construction documents.
10/14 - 01/15	**Stage 0 Feasibility Study of Modern Roundabouts (Lafayette Parish, LA)** Fenstermaker is responsible for the Stage 0 Feasibility Studies being performed on 30 conceptual roundabout locations throughout Lafayette Parish for the Acadiana Metropolitan Planning Organization. Mr. Douet served as the Project Manager for the first portions of the project and was responsible for data collection, feasibility studies, environmental inventory, and conceptual design of numerous roundabouts.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**				
Name	Aimee Latiolais, P.E.		Years of relevant experience with this employer	7	
Title	Engineer		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			B.S. / 2014 / Civil Engineering		
Active registration number / state / expiration date			PE #42932 / LA / 03-31-2023		
Year registered	2018	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Roadway Design		

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 time specified in the applicable MPR(s).
Ms. Latiolais is a Professional Engineer with eight years of experience in design, planning, and construction oversight. Aimee's core experience is in roadway design, both open channel and subsurface drainage systems, traffic studies, line and grade studies, commercial site design, and design of roundabouts. She has served as a design engineer for a multitude of transportation projects ranging from urban local to collector and arterial roadways. Ms. Latiolais is proficient in Bentley Software such as Microstation, Storm and Sanitary, and InRoads; Transoft Solution's AutoTURN; DOTD's HYDRWIN; and SIDRA INTERSECTION. She has attended the ATTSA Traffic Control Technician, Traffic Control Supervisor, and Certified Flagger training courses.	
02/17- Present	**S.P. No. H.011235.5: I-49 South at Verot School Road (LA 339) (Lafayette Parish, LA)** Ms. Latiolais is a Design Engineer responsible for the widening of existing Verot School Road from Pinhook Road (LA 182) to existing US 90 from a 2-lane roadway to a median separated 4-lane roadway facility. She is designing horizontal and vertical roadway elements, intersection improvements to include a multi-lane roundabout, and open channel and subsurface drainage along Verot School Road, South College Road, Hugh Wallis Road, and the Service Road. Aimee also aided in the project line and grade study and hosting the public meeting which followed the procedures set forth by DOTD.
08/14- Present	**Nelson Road and Ham Reid Road Roundabout & Design (Calcasieu Parish, LA)** Ms. Latiolais served as a design engineer and quality control reviewer of the subsurface drainage design. This project improved the existing intersection to a multi-lane roundabout in Calcasieu Parish, Louisiana.
04/16-10/16	**Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA)** This contract includes engineering and consulting services for the completion of various aspects of the Sasol Chemicals (USA) LLC–Lake Charles Chemicals Project (LCCP). Fenstermaker is responsible for the engineering design of the 1.5-mile heavy haul route that will be utilized to transport the oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. Ms.Latiolais utilized AutoTURN to ensure driveway designs were adequate as part of an access permit application, as well as, determined a cost estimate to realign necessary driveways.
09/15 - 05/17	**Lake Charles LNG Traffic Impact and Road Improvements & CE&I (LA384 & LA 385) (Calcasieu Parish, LA)** This project included evaluating construction traffic that will be created by three LNG facilities being constructed near Lake Charles, LA and design of roadway improvements to mitigate the additional traffic. Fenstermaker is also responsible for Construction Engineering and Inspection services for the roadway construction and modifications. Ms. Latiolais utilized AutoTURN to ensure intersection designs were adequate.
09/15-Present	**DOTD Permit No. 03030387: Kaliste Saloom Road Widening, Intersection Improvements, Bridge and CE&I (LA3073 to LA733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA):** Ms. Latiolais is currently overseeing the construction of this $34 million project. Ms. Latiolais is a Design Engineer for the widening of approximately 1.7 miles of Kaliste Saloom Road, an over-capacity major arterial roadway located in the center of

	Lafayette, Louisiana. Aimee was responsible for the subsurface drainage design for the entire project and utility relocations at the roundabout intersection, as well as, creating the official Opinion of Probable Cost and necessary construction documents. She also assisted in permitting and agency coordination with LCG, DOTD, and DHH. She continues to aid in managing the construction effort on this project.
03/16-Present	**Apollo Rd (LA 93) Extension to Dulles Drive (Lafayette Parish, LA):** Ms. Latiolais is the Lead Design Engineer and Engineer of Record for Phase 3 of the new 2.2-mile, 4-lane boulevard roadway in Scott, Louisiana. She is responsible for the design of approximately 0.75 miles of the urban arterial roadway and open channel hydraulics. At the request of the project owners, Ms. Latiolais also produced an informal line and grade study for a multi-lane roundabout intersection with Apollo Road and the future Eraste Landry Road extension.
06/17–07/20	**S.P. No. H.009932 US 80 Widening: Vancil Rd to Well Rd EA (Ouachita Parish, LA)** Ms. Latiolais is an engineer for the line and grade study portion of the Environmental Assessment. She assisted in the layout of three alternatives to the existing 2-lane roadway, which include combinations of 3-lane, 4-lane median-divided boulevard, and intersection improvements for the 1.4-mile corridor. Intersection improvements include two proposed roundabouts at Vancil Road and Avant Road, which were both designed by Ms. Latiolais. Aimee is also assisting in the preparation of the line and grade study report and cost estimating.
08/20-Present	**S.P. No. H.011773 Hanks Dr./Landis Dr. Pedestrian Improvements- Phase 1, & H.014274 Hanks Dr./Landis Dr. Pedestrian Improvements Phase 2 & 3 (East Baton Rouge Parish, LA)** Ms. Latiolais is designing drainage for this project in the City of Baton Rouge. The project includes the construction of new pedestrian sidewalks on a narrow sub-standard street and associated drainage improvements.
10/20-05/21	**S.P. No. H.013367 Elm Grove Garden Pedestrian Improvements (East Baton Rouge Parish, LA)** The project includes the new construction of pedestrian sidewalks on a narrow sub-standard street, new drainage, and school zone considerations. Ms. Latiolais is designing drainage on this project.
02/22-Present	**S.P. No. H.012869 LA 182 (University) @ LA 723 (Renaud) Roundabout (Lafayette Parish, LA)** The goal of this project is to design a roundabout which realigns Renaud Drive and Stone Avenue to intersect with University Avenue. This project will include roadway design, hydraulic analysis and design, and utility design. Ms. Latiolais is serving as Deputy Project Manager.

16. Staff Experience:					
Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**				
Name	Bradford Millett, PLS, E.I.		Years of relevant experience with this employer	9	
Title	Surveyor		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			B.S. / 2014 / Civil Engineering		
Active registration number / state / expiration date			PLS #5245 / LA / 03-31-2023		
Year registered	2020	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			Surveying		

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 time specified in the applicable MPR(s).
Ms. Millett is a Professional Land Surveyor at Fenstermaker whose responsibilities consist of field crew coordination, data collection and processing, preliminary layout and design of boundary and right of way plats, ALTA surveys and Development and Planning subdivision platting process. Her experience also includes project management as well as public meetings, client relations, utility coordination, and other components associated with surveying services. Ms. Millett is also responsible for the preparation of proposals for the Engineering, Advanced Technologies and Surveying Divisions.	
05/14-11/17	**DOTD Permit No. 153351,153352,153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements (Calcasieu Parish, LA):** Fenstermaker was responsible for designing road improvements at various locations to support anticipated construction traffic associated with the expansion of the Lake Charles LNG, G2X, and Magnolia Facilities. Topographic and boundary surveys associated with the planned improvements, right of way maps, as well as coordinating and managing utility relocations were performed by Fenstermaker. Ms. Millett prepared survey request, coordinated survey crews, reviewed, and processed survey data, prepared right of way maps, and coordinated with utility companies.
05/19-03/21	**S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA)** Fenstermaker completed the topographic and boundary field surveys, established control, post-processed data, reviewed title reports, established property boundaries and mapped encumbrances for the approximately 0.75-mile Railroad Relocation for the Port of Lake Charles. DOTD survey feature codes were utilized for this project, and DOTD Right of Way maps along with COGOWIN legal descriptions were created. Ms. Millett served as the Project Manager for this project.
09/13-10/19	**SASOL LCCP-Heavy Haul Road (LA378 & LA739) (Calcasieu Parish, LA):** This is a $12.9 million contract with Fluor for engineering and consulting services which include the design of a 1.5-mile heavy haul route that will be utilized to transport oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. Ms. Millett was responsible for topographic and boundary data collection and data processing, as well as the generation of Louisiana Department of Transportation and Development Right of Way Maps for the 1.5-mile corridor to acquire servitudes and right of ways. She was also in charge of utility coordination for the relocation of AT&T lines throughout the route
04/15-02/19	**Coach Williams Blvd. Extension (Calcasieu Parish, LA):** This project consisted of engineering design services for the construction of the extension of Coach Williams Drive to connect to Houston River Road (LA 379). Fenstermaker is the prime on this project and is responsible for the environmental assessments prior to design, drainage design, pavement design, and the geometrics of the road. In addition, Fenstermaker conducted the surveying required to design the road. Ms. Millett's responsibilities included coordinating and reviewing appraisal reports and plats,

	coordinating all the topographic and boundary surveys, processing data and coordinating with utility companies within the proposed route.
08/13-08/16	**Roundabout Improvements: Nelson Road / Ham Reid Road (Calcasieu Parish, LA):** This project involves professional engineering design and planning services related to the improvement of the intersection on Nelson Road at Ham Reid Road and at Gauthier Road. Ms. Millett worked on the engineering design and utility coordination with all utility companies within conflict.
05/13-02/20	**S.P. No. H.010620: US 90 (I-49 South) Albertson Pkwy to Ambassador Caffery Design-Build (Lafayette Parish, LA):** This project was a proposed upgrading of a portion of US 90 in Lafayette Parish to a six-lane controlled access facility to also include improvements to the existing east and westbound frontage road system, construction of a new six-lane US 90 overpass structure over both Albertson Parkway and the existing Burlington Northern Santa Fe Railway facility, and construction of all associated US 90 mainline ramps needed to connect these overpass structures and frontage roads. Ms. Millett was responsible for reviewing all DOTD right-of-way maps
07/13-09/17	**Kaliste Saloom Road Widening, Ambassador Caffery Pkwy to E. Broussard Rd, (Lafayette Parish, LA):** Fenstermaker was responsible for the widening of approximately two miles of Kaliste Saloom Road, a highly congested major arterial roadway located in the center of the city of Lafayette, Louisiana. The project was then split into three phases to include drainage outfall construction, utility relocations, and roadway construction. Fenstermaker is the direct responsible charge of all design components and construction management for improvements. Ms. Millett assisted with topographic and boundary surveying, utility relocation, right of way plats, drainage design, as-built surveys, and coordination of survey crews in the field for Phases 3A and 3B.
07/13-08/21	**Apollo Road (LA 93) Extension to Dulles Drive (Lafayette Parish, LA):** Fenstermaker performed all topographic surveying of cross streets and road tie-ins, cross sections for the purpose of an existing elevation DTM, and locations of all parcel boundaries effected by the proposed right of way. Ms. Millett created the plats for the acquisition of servitudes and right of ways.
02/18-04/20	**Churchpoint Road at Roddy Road Roundabout Study, Design, and Redesign (Ascension Parish, LA)** Fenstermaker completed a roundabout study at Churchpoint Road and Roddy Rd. The study was completed in compliance with "EDSM VI.1.1.5, Roundabout Study and Approval." Following DOTD's approval, Fenstermaker began final design of the roundabout. The traffic analysis included utilization of the so ware SIDRA to compare a stop-controlled intersection, signalized intersection, and roundabout. Safety data was collected for a three-year period and analyzed for correctible crashes at the intersection. Ms. Millett coordinated with survey crews, processed data, completed preliminary boundary layouts, and developed right of way maps for this intersection.
12/19-12/21	**Acadiana Regional Airport Access Road (Iberia Parish, LA)** This project includes the design of a new roundabout at the intersection of LA 675, US 90 Frontage Road, and the Acadiana Regional Airport Access Road (currently under construction). Ms. Millett is responsible for the topographic and boundary surveys, as well as the development and review of right of way maps.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**		
Name	Travis Bodin, MBA, PLS, PMP	Years of relevant experience with this employer	18
Title	Vice President, Survey	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MBA / 2021 / Business Administration B.S. / 2004 / Industrial Technology	
Active registration number / state / expiration date		PLS #5067 / LA / 03-31-2024	
Year registered	2011	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Surveying	

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 time specified in the applicable MPR(s).
Travis Bodin, MBA, PLS, PMP serves as Vice President of Survey at Fenstermaker and has over 19 years of surveying, management, and coordination experience. He is currently responsible for directing and overseeing the daily activities within the Fenstermaker Survey Division which consist of both the Houston and Lafayette Offices and over 35 survey crews working across multiple states. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of DTM, infrastructure documentation, GIS integration, process and procedure development. During his tenure at Fenstermaker Mr. Bodin has conducted management duties for both field and office activities on survey and engineering projects.	
07/14-10/17	**DOTD Permit No. 153351, 153352, 153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements including CE&I (LA384 & LA385) (Calcasieu Parish, LA):** Fenstermaker was contracted by Trunkline LNG for their plant expansion, drainage analysis and channel relocation project. Fenstermaker completed a detailed HEC-RAS model to determine the impacts of rerouting a major drainage channel that traversed the proposed expansion site. Mr. Bodin was responsible for DTM generation and establishing the project controls. He was also responsible for the coordination of utilities and survey field activities, as well as processing all the data collected.
09/13 – 01/19	**DOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA):** Mr. Bodin served as the Lead Surveyor in providing topographic, boundary, and route surveying to aid in the coordination with public and state agencies for the construction of a 2.4-mile roadway. Services include mapping for the acquisition of agreements between Sasol and third-party utilities, platting for acquisition and dedication of property needed for various construction activities and state agencies, and Quality Control services of construction activities that were conducted which included monument review and location mapping. Mr. Bodin was responsible for field coordination, data processing, ROW generation, servitude and ROW mapping and topo surveys.
02/13-03/17	**Nelson and Ham Reid Road Roundabout & Extension (Calcasieu Parish, LA):** This project involves professional engineering design and planning services related to the improvement of intersection on Nelson Road at Ham Reid Road. Mr. Bodin, Project Surveyor is responsible for the Topographic Surveying and ROW Plats.
05/19-03/21	**S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA):** Fenstermaker completed the topographic and boundary surveys, established control, processed data, reviewed title reports, established property

	boundaries, and mapped encumbrances for the ~0.75 miles Railroad Relocation. DOTD survey feature codes were utilized for this project, and DOTD right-of-way maps along with COGOWIN legal descriptions were created. Mr. Bodin is serving as Project Principal and providing QA/QC for this project.
04/15 - 02/19	**Coach Williams Blvd. Extension (Calcasieu Parish, LA):** Mr. Bodin served as Project Manager and was also the Lead Surveyor responsible for coordinating abstracting, topographic survey, and the generation of all ROW and servitude plats. This project includes the design of an $18.4 million, 3-mile roadway. The new roadway includes a 2-lane open ditch typical section with a roundabout, railroad crossing, Sabine River Authority Canal crossing, and will traverse through multiple wetland areas.
05/17-10/17	**S.P. No. H.009932 US 80 Widening: Vancil Rd to Well Rd EA (Ouachita Parish, LA):** Mr. Bodin is serving as the Survey Manager for this Environmental Assessment to improve the corridor by widening the existing roadway and implementing intersection improvement principles along a 1.4-mile portion of US 80. He has assisted in GIS mapping, utility identification, and LIDAR mapping.
07/13-08/15	**S.P. No. H.010620: US 90 (I-49 South) Albertson Pkwy to Ambassador Caffery Design-Build (Lafayette Parish, LA):** Fenstermaker is the Design Engineer for the James Construction. Mr. Bodin is the Surveyor responsible for managing all topo surveying provided by the sub-consultant on the improvements to the roadway. Some of the main elements of the six-lane mainline roadway project include an overpass at the Burlington Northern Santa Fe Railway, a grade separation at Albertson's Pkwy and improved connectivity between US 90 and LA 182.
06/12-Present	**S.P. No. H.006459 Roundabout at Churchpoint/Roddy Road (Ascension Parish, LA):** Mr. Bodin is serving as the Professional Land Surveyor Lead on the design and re-design of this roundabout project. Mr. Bodin directed all surveying efforts, ROW mapping, and other tasks.
03/20-05/20	**Hanks Drive/Landis Drive Pedestrian Improvements (East Baton Rouge Parish, LA)** Mr. Bodin served as the Surveyor Project Manager. This project was identified as a facility that presented an unsafe pedestrian corridor; thus, the project goals included providing a safe and accessible pathway for pedestrians along Hanks Drive and Landis Drive. Phases 2 and 3 include approximately 4,200-ft. of sidewalk along Hanks Drive from Victoria Drive to Dickens Drive and approximately 2,000-ft. of sidewalk along Landis Drive from Hanks Drive to Greenwell Street.
10/13 - 01/14	**S.P. No. H.011014 LA 3002: U-Turn (Livingston Parish, LA):** Fenstermaker was responsible for the improvements made for a J-Turn between North Range Rd and South Range Rd (LA 3002). Mr. Bodin was responsible for preparing ROW Maps in accordance with DOTD requirements. Mr. Bodin coordinated the Fenstermaker survey crew to perform topographical survey and utility relocation. Mr. Bodin also acted as quality control on title research and ROW maps and processed the survey data
10/12 – 05/14	**S.P. No. H.008173: US 190 & 4-H Club Rd (LA 1032) Turn Lanes (Livingston Parish, LA):** Mr. Bodin was the Lead Surveyor responsible for coordinating the survey crew for collecting topography, boundary information, drainage information, coordinating the title abstractor, and for processing the survey data into DOTD format for the construction of a turning lane along 4-H Club Rd.
12/08 - 07/18	**DOTD Permit No. 03030387: Kaliste Saloom Road Widening, Intersection Improvements, Bridge, and CE&I (LA 3073 to LA 733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA)** Mr. Bodin served as the Surveyor Project Manager. Fenstermaker performed the topographic survey of all cross street and road tie-ins, cross sections for the purpose of an existing elevation DTM and parcel boundaries effected by the ROW. Mr. Bodin was responsible for field crew coordination, topo/boundary surveys, ROW plats, monuments, data processing, plats and legal descriptions.

16. Staff Experience:

Firm employed by	Intelligent Transportation Systems LLC			
Name	**Jonathan Fox, P.E., PTOE, PMP**	Years of relevant experience with this employer	7.5	
Title	Principal/Engineer	Years of relevant experience with other employer(s)	13	
Degree(s) / Years / Specialization		Bachelor of Science – Civil Engineering – 2003		
Active registration number / state / expiration date		P.E. No. 33277 / Louisiana / 9.30.2023 PTOE No. 2329 / International / 11.7.2022 PMP No. 1812148 / National / 4.27.2024		
Year registered	2007	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Adaptive Traffic Signal Design (Lead), Traffic Study Updates		

Jonathan Fox, P.E., PTOE, PMP currently serves ITS LLC as a Principal. He has over 20 years of experience in traffic engineering, signal design, ITS design and maintenance, and project management. Jonathan has developed specific expertise in the design of traffic signal systems, communication systems, detection systems, intelligent transportation systems, and the innovative application of adaptive traffic signals. Jonathan holds a national certification as a Professional Traffic Operations Engineer (PTOE). Jonathan has completed trainings and certification for the DOTD Traffic Engineering Process and Reports (Parts I, II, and III) and other continuing education courses. He is a certified Project Management Professional (PMP) and an ATSSA Traffic Control Supervisor/Technician.

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 time specified in the applicable MPR(s).
August 2015 – July 2019	**SASOL Lake Charles Chemical Project – Adaptive Traffic Signal Systems (Westlake):** Jonathan was the lead traffic engineer on new traffic signal designs, upgrades, communication design, and integration. He oversaw developing traffic signal plans, simulation models, communication layouts, network design, surveillance, travel time management, and permit applications. Six of these intersection upgrades were integrated by Jonathan's team as the first Adaptive Traffic Signal System deployed in the state of Louisiana (System A). One of the biggest challenges overcome was integrating DOTD's first private cellular network connection. This effort took continuous communications between DOTD District 07, DOTD ITS Section, Div. of Admin. Office of Technology Service, Trafficware, and Verizon Wireless. Once the DOTD Lake Charles ITS Phase 2 project was constructed and accepted, Jonathan oversaw the design and installation of an unlicensed wireless network which removed the recurring monthly cellular service charges for the adaptive system. Jonathan has overseen the design, implementation and integration of the Sasol System B (LA 108 signal corridor) as well as LA 27 (Beglis Rd.) @ LA 379 (Houston Rive Rd.). These were constructed and the adaptive functionality was turned on in July of 2019. These intersection designs used stop bar and setback radar detection as well as wireless and cellular communications. Efforts for Sasol also included design and construction support for a temporary traffic signal on Old Spanish Trail at Prater Road. Jonathan oversaw the design and construction inspection.
June 2018 – July 2019	**US 90 Adaptive Corridor (Westlake):** Jonathan has served as the project manager and overall design lead for the US 90 adaptive traffic signal corridor in Westlake, LA. Designs included preparing updated traffic signal inventory (TSI) forms as well as communications support of two isolated traffic signals. Equipment included in the design consisted of new radar detection and unlicensed wireless communications. Jonathan oversaw the integration of the intersections into the adaptive system in Lake Charles
June 2018 – July 2019	**US 90 Adaptive Corridor (Westlake):** Jonathan served as the project manager and overall design lead for the US 90 adaptive traffic signal corridor in Westlake, LA. Designs included preparing updated traffic signal inventory (TSI) forms as well as communications in support of two isolated traffic signals. Equipment included in the design consisted of new radar detection and unlicensed wireless communications. Jonathan oversaw the integration of the intersections into the adaptive system in Lake Charles.

December 2014 – Present	**DOTD ITS Maintenance (44-2500, 44-7102. 44-16811) (Statewide):** Served as supervisor engineer for ITS LLC under the existing ITS Maintenance Retainer contract. Roles include project management support, quality control checks, site reviews, as well as investigating options and developing concepts to improve sites. Jonathan's knowledge of the ITS from planning through operations has made him a highly valuable asset to the ITS Maintenance team especially his knowledge of the ITS as it was designed and operated.
2007 – 2012	**L'Auberge Baton Rouge Casino & Hotel Off-Site Improvements (Baton Rouge):** This project involved developing signal plans for offsite signal improvements at the intersections of Nicholson and Gardere, Bluebonnet and Nicholson, Burbank and Bluebonnet, and Perkins and Siegen. The project called for completely new traffic signal equipment at the Nicholson and Gardere intersection. Modifications and additions to the existing traffic signal equipment were required at the other intersections. Jonathan led the design efforts for the traffic signals and fiber optic communications plans as well as obtained DOTD traffic signal permits**.**
2007 – 2010	**I-12 Ramp Metering Design and Implementation (East Baton Rouge Parish)**: Jonathan provided signal layout design support, quality control and fiber optic communications design for 16 ramp meters in the Baton Rouge area, including plan layouts, fiber allocations, and technical specification. He also handled construction administration, fiber inspection, fiber test review, and integration coordination. This was the first implementation of ramp metering in the state of Louisiana.
October 2012 – December 2014	**Baton Rouge ITS Phase 3 (Baton Rouge)**: Jonathan oversaw the System Engineering Analysis (SEA) document for the project in compliance with the FHWA Rule (23 CFR Part 940.11) to determine project scope and analyze implementation constraints including minimizing the impact of construction on the traveling public and using existing fiber optic communications. Several ITS deployments projects were solely focused on the core urban area, leaving gaps west of the west of the Mississippi River (Iberville and West Baton Rouge Parishes), and east of the City in Livingston Parish. The solution to meet the DOTD's goal of the Baton Rouge ITS Phase 3 project was to supplement the area with 16 additional closed circuit television video cameras, 5 dynamic message sign sites, 1 HUB site, 30 Bluetooth detection sites, 1 travel time message sign (first in the state), and 8 ramp meters that cover five parishes over, 50 miles, to help with key blind areas. Jonathan led the development of the full plan set from conception to Final Plans.
November 2012 – December 2014	**H.010138 Sunshine Bridge ITS Deployment (Sorrento):** Jonathan managed all tasks from system engineering through deployment of final design package. He oversaw the development of the project level SEA for the deployment of a closed-circuit television camera system along LA 22 and LA 70 including the Sunshine Mississippi River Bridge. He overcame project challenges including determining how permitted fiber communications assets would be used, structure mounted conduit systems, and handling ongoing bridge painting construction. He developed a conceptual design to have the camera support mount directly to the bridge pier cap instead of the bridge's steel members to reduce maintenance. He also oversaw the analysis report, developed plans, specifications, and provided cost estimates.
2008 — 2009	**Baton Rouge Downtown Two-Way Streets Project (Baton Rouge)**: This project involved developing signal plans for intersections affected by the transition from one-way operation to two-way, including the intersections of South Blvd at S. Phillip and St. Louis Streets, Government St at St. Louis and St. Ferdinand Streets, and North Blvd at St. Louis and St. Ferdinand Streets. Jonathan led the signal design efforts which included signal plans, wiring diagrams, timing plans, and fiber optic communications.
April 2016 – July 2018	**Alabama Department of Transportation (ALDOT) ITS Specifications (Statewide AL):** ALDOT desired an upgrade of their special provisions into a standard specification in order to bring consistency throughout the state on ITS equipment. Jonathan's vast experience in design of ITS deployment projects as well as firsthand knowledge of what works from being part of ITS maintenance, made him the ideal project manager. The specifications developed included material and construction for a plethora of items: fiber optic communications infrastructure, network switches and wireless radios, CCTV cameras, dynamic message signs, vehicle detection systems, ITS cabinets, environmental sensors, and an assortment of miscellaneous related ITS items. This required assessing multiple manufacturers and models for each device type. Further, Jonathan oversaw and supported the development of material lab test provisions for the equipment as well as acceptance testing provisions.

16. Staff Experience:

Firm employed by	Intelligent Transportation Systems LLC			
Name	**Kimberly McDaniel, P.E., PTOE, PTP**	Years of relevant experience with this employer	<1	
Title	Senior Transportation Engineering Manger	Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization		Bachelor of Science – Civil Engineering – 2003 Master of Science – Civil Engineering - 2006		
Active registration number / state / expiration date		P.E. No. 32973 / Louisiana / 09.30.2023 PTOE No. 2072 / International / 10.02.2022 PTP No. 802 / International / 03.14.2025		
Year registered	2007	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Project Manager, Traffic Study Updates (Lead), Access Management (Lead)		

Kimberly McDaniel, P.E., PTOE, PTP, currently serves ITS LLC as a Senior Transportation Engineer Manager. She has over 19 years of experience in transportation design and planning, traffic engineering, and project management. She spent 6 years in state service at DOTD in Traffic Engineering Management where she developed policies and programs related to Complete Streets, Access Management, and Traffic Impacts and served as the subject-matter expert on access management and traffic impacts. The remainder of her career has been spent as a consultant performing a wide variety of traffic engineering, safety assessments, and transportation design and planning projects throughout the states of Louisiana, Texas, and Michigan. She is very knowledgeable in the areas of innovative intersection design and operation, feasibility study requirements, access connection safety and design, corridor studies, interchange modification and justification studies, traffic impact studies, crash analyses, safety studies, low-cost safety improvements, and traffic impact analyses. Kimberly holds national certifications as a Professional Traffic Operations Engineer (PTOE) and Professional Transportation Planner (PTP). Kimberly has completed trainings and certifications for the DOTD Traffic Engineering Process and Reports (Parts I, II, and III), the Highway Safety Manual, and other continuing education courses.

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 time specified in the applicable MPR(s).
August 2021 – May 2022	**Railroad Trail Project Signal & Pedestrian Crossing Design, Tipton Associates on behalf of Louisiana Tech University (Lincoln Parish, LA)**: Kimberly served as the Project Manager for the design and development of construction plans for the Tech Drive at Railroad Avenue Signal and Pedestrian Crossing, which included traffic evaluation, engineering design, construction plans for the installation of accessible/audible countdown pedestrian signals, and pavement markings as part of FHWA BUILD Grant for pedestrian improvements throughout the Louisiana Tech campus and the City of Ruston. As Project Manager, her duties included DOTD project coordination, technical and planning review, and overall project management.
September 2020 – May 2021	**LA 93 Traffic Impact Study (Lafayette Parish)**: Kimberly served as the Project Principal for a traffic and safety evaluation for the City of Scott. The study included traffic impact studies for three proposed developments, two Intersection Control Evaluations (ICE), and a safety evaluation, all of which was required to conform to the DOTD Traffic Engineering Process and Report requirements.
August 2019 – March 2020	**LA-93 at Westgate Signal (Scott)**: Kimberly was the Engineer of Record and Project manager for the preparation of the Intersection Control Evaluation (ICE) report which resulted in the approval of a temporary traffic signal at the intersection in to relieve traffic congestion due to an adjacent road closure. She also managed the design of the temporary signal and associated construction plans and DOTD Permitting Process. This study was completed in accordance with the DOTD TEPR requirements.

February 2019 – August 2021	**Farm Road Multi-Bridge Replacement Project** (Calcasieu Parish, LA): Kimberly served as the Lead Traffic Engineer for the Calcasieu Parish Police Jury on the Replacement of bridges on Farm Road. The scope included professional engineering services related to the replacement of two bridges located on Farm Rd. She provided traffic engineering services, including the preparation of temporary traffic control plans.
July 2020 – March 2021	**Tech Drive Pedestrian Crossings, Louisiana Tech University (Ruston)**: New student housing being constructed across a state highway from the main campus posed challenges for the thousands of students who would have to cross the highway each day. The University sought improvements to safety at these crossings. The scope included traffic engineering and permit assistance, along with coordination between Louisiana Tech and the Louisiana Department of Transportation and Development (DOTD) for the development of construction plans for the installation of Rectangular Rapid Flashing Beacons (RRFB) at two midblock crossings. Kimberly served as Principal for the project and her duties included coordination with DOTD, client coordination, review of plans and cost estimates/comparisons, permit and bidding coordination, and review of bid package documentation/distribution and meetings.
January 2019 – April 2020	**S.P. No. H.001271 Cane River Bridge Church Street EA** (Natchitoches Parish, LA): Ms. McDaniel served as the Lead Traffic Engineer for this Environmental Assessment for the replacement of the Cane River Bridge. She was responsible for the analysis of multiple future traffic scenario alternatives as well as three different complex detour scenarios for the replacement of the Cane River Bridge. She assisted with the development of the final EA document which received approval on the first known DOTD and FHWA "net benefit determination" for Section 4(f) properties in Louisiana. She assisted in the development a Finding of No Significant Impact (FONSI) document, which was approved by FHWA and DOTD. Ms. McDaniel also assisted in coordinating public and agency outreach activities
June 2017 – June 2021	**S.P. No. H.009932: US 80 Widening Vancil Rd to Well Rd** (Ouachita Parish): Kimberly served as traffic and safety project engineer for the Environmental Assessment study for capacity/safety improvement of a 1.4- mile portion of US 80. She developed traffic models for a variety of alternatives, identified safety improvements, and determined geometric configurations to increase traffic capacity. Alternatives included roundabouts.
January 2019 – May 2022	**S.P. No. H.002297 LA 37 (Sullivan Road to Liberty Road)** (East Baton Rouge Parish): Kimberly served as the Project Principal and was responsible for directing all engineering, environmental, and planning services required to recommend improvements along the LA 37 corridor from Sullivan Road to Liberty Road. Upon completion of all analyses, a final Stage 0 Feasibility Report including the Stage 0 Checklist, Environmental Checklist, schematics, and the opinion of probable cost were developed.
April 2015 – December 2018	**Contract No. 4400007736: Traffic Engineering Services Retainer Contract, Statewide, LA:** Kimberly was the Engineer of Record and Project Manager for a $3 million traffic engineering services on-call contract with DOTD. Services included traffic engineering studies, corridor studies, safety and crash analyses, traffic signal design, traffic data collection, signing and pavement marking designs, traffic signal timing studies, and intersection design.
October 2008 – August 2014	**DOTD Access Management Program, Louisiana Statewide**: Kimberly developed and managed the DOTD Access Management Program. In this role, she performed extensive research of access management policies and best practices throughout the US. Kimberly led multiple focus groups and policy development teams consisting of DOTD employees, consulting engineers, commercial developers, residential developers, real estate agents, attorneys, municipal employees, and elected officials from around the state to develop a policy for DOTD which would regulate the granting of access to state highways. The policy was adopted as Louisiana Administrative Code Title 70, Part I, Chapter 15. Kimberly authored the Access Connections Policy, a document expanding the criteria of the code. She developed training courses for DOTD employees, consultants, contractors, real estate professionals, and elected officials and conducted trainings throughout the state of Louisiana. Kimberly served as the state's Subject Matter Expert on Access Management throughout this time.

16. Staff Experience:

Firm employed by	Intelligent Transportation Systems LLC			
Name	**Diane C. Hammonds, P.E., PTOE, RSP$_1$**	Years of relevant experience with this employer	<1	
Title	Senior Transportation Engineering Manger	Years of relevant experience with other employer(s)	17	
Degree(s) / Years / Specialization		Bachelor of Science – Civil Engineering – 2002		
Active registration number / state / expiration date		P.E. No. 40749 / Louisiana / 09.30.2022 PTOE No. 7113 / 12.19.2022 RSP$_1$ No. 798 / 03.14.2025		
Year registered	2016	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Traffic Study Update, Adaptive Traffic Signal Design		

Diane C. Hammonds, P.E., PTOE, RSP$_1$, currently serves ITS LLC as a Senior Transportation Engineer. She has over 17 years of experience in traffic engineering specializing in Traffic/Transportation Engineering and Transportation Planning projects including traffic impact assessments, traffic signal design systems, traffic simulation modeling, access management reviews, safety studies, roundabout analysis and design as well as permit reviews and coordination. Ms. Hammonds has successfully completed hundreds of successful traffic & transportation projects. Her unique skills to bring both the client and reviewing agency to agreement on the final product is an asset to the projects she is involved in. She has completed training in HCS, Synchro, Roundabouts and the HSM and is proficient in Synchro, SimTraffic, HCS, VISTRO, SIDRA, CRASH 1, CRASH 3 and Microstation. Diane holds national certifications as a Professional Traffic Operations Engineer (PTOE) and Road Safety Professional (RSP1). Diane has completed trainings and certifications for the DOTD Traffic Engineering Process and Reports (Parts I, II, and III), the Highway Safety Manual, and other continuing education courses.

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 time specified in the applicable MPR(s).
August 2019 – March 2020	**LA-93 at Westgate Signal (Scott)**: Diane served as the Technical Lead, Analyst and Design Engineer for the modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction and closure of an adjacent roadway. Diane prepared the volumes forecasting and capacity analysis as well as report documentation, and signal design. The approval coordination included the DOTD District 03 staff as well as Headquarters and the Lafayette Consolidated Government.
January 2022 – May 2022	**Traffic Signal – LA-433 at Town Center Parkway (St. Tammany Parish)**: Diane served as the Engineer of Record and Lead Traffic Engineer for an Intersection Control Evaluation (ICE) analysis for the intersection of LA-433 (Old Spanish Trail) at Town Center Parkway. The scope of services includes providing traffic engineering analyses, traffic signal design, and permit assistance to Stirling Properties as required by the DOTD. The evaluation included an MUTCD 2009 Edition Traffic Signal Warrant Evaluation, a crash review for a three (3) year period that included diagrams, locations, and summaries, an existing operating analysis, and an alternative intersection control for a traffic signal, an all-way stop, a roundabout, an R-Cut, and median UTurns.
August 2021 – May 2022	**Railroad Trail Project Signal & Pedestrian Crossing Design, Louisiana Tech University (Ruston)**: Diane served as the Lead Traffic Engineer for the design and development of construction plans for the Tech Drive at Railroad Avenue Signal and Pedestrian Crossing, which included traffic evaluation, engineering design for the installation of accessible pedestrian signals (APS), and pavement markings as part of FHWA BUILD Grant for pedestrian improvements throughout the Louisiana Tech campus and the City of Ruston.
August 2019 – June 2021	**S.P. No. H.009932 US 80 Widening: Vancil Rd to Well Rd EA (Ouachita Parish)**: Diane served as a traffic engineer for this Environmental Assessment to improve the corridor by widening the existing roadway and implementing intersection improvement principles along a 1.4-

	mile portion of US 80. She has assisted in the existing/no-build, safety, and alternatives capacity analysis reports, which have been approved by DOTD. She analyzed project impacts by coordinating and assisting in developing the line and grade study, cost estimates, and conceptual plans.
February 2019 – August 2021	**Farm Road Multi-Bridge Replacement Project (Calcasieu Parish)**: Diane provided assisted in the preparation of traffic management plans for the Calcasieu Parish Police Jury related to the replacement of two (2) bridges located on Farm Road. Diane provided traffic engineering services, including the preparation of temporary traffic control plans.
August 2019 – May 2022	**S.P. No. H.002297 LA 37 (Sullivan Road to Liberty Road) (East Baton Rouge Parish)**: Diane served as the Lead Traffic Engineer and was responsible for managing and reviewing all submittals by the traffic sub-consultant, Gresham Smith. Diane ensures quality control and is assisting in the development of the Stage 0 Feasibility Study, Environmental Inventory, and conceptual plans
August 2019 – May 2022	**LA-93 (Westgate Road) at Eraste Landry Road (Scott)**: Diane served as the Technical Lead, Analyst and Design Engineer for the modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction which resulted in an adjacent roadway closure. Diane prepared the volume forecasting and capacity analysis as well as report documentation, and signal design. The approval coordination included the DOTD District 03 staff as well as Headquarters and the Lafayette Consolidated Government.
May 2018 – August 2019	**Lakeshore Drive Mixed Use Development Traffic Impact Study (Slidell)**: Diane served as the Project Manager, Engineer of Record, and Analyst for a ± 1,083-acre mixed use development which at full buildout will contain residential houses, a school, and small commercial retail. The study included 2 interstate interchanges with state highways as well as a 1.7-mile segment of Parish owned roadway including 4 roundabout evaluations and a J-turn corridor. She performed approval coordination with both the DOTD and St. Tammany Parish.

16. Staff Experience:

Firm employed by	Intelligent Transportation Systems LLC				
Name	**Clarke Chauvin, P.E., PTOE, PMP**		Years of relevant experience with this employer	6	
Title	Project Engineer		Years of relevant experience with other employer(s)	3.5	
Degree(s) / Years / Specialization			Bachelor of Science – Civil Engineering – 2013		
Active registration number / state / expiration date			P.E. No. 41770 / Louisiana / 09.30.2023 PTOE #4337 / International / 11.20.2023 PMP #1812148 / National / 11.31.2023 IMSA No. BE_125780 / National / 09.18.2022		
Year registered	2017	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Adaptive Traffic Signal Design		

Clarke Chauvin, P.E., PTOE, PMP currently serves ITS LLC as a Project Engineer. He has over ten years of experience in traffic engineering, including roadways, signal systems, ITS design, communications design, CE&I, and maintenance. He has spent most of his professional career specializing in traffic signals, ITS design, maintenance, and all other aspects of design and implementation of technology for traffic purposes throughout the state. Clarke also has over 20 years of electrical experience which has been an asset with the design and implementation of traffic signals and ITS devices. Clarke has completed trainings and certification for the DOTD Traffic Engineering Process and Reports (Parts I, II, and III) and other continuing education courses. He is a certified Project Management Professional (PMP), ATSSA Traffic Control Supervisor/Technician, and has certification as an IMSA Traffic Signal Technician – Level II.

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 time specified in the applicable MPR(s).
August 2015 – July 2019	**SASOL Lake Charles Chemical Project – Adaptive Traffic Signal Systems (Westlake):** In support of the $8.9 billon ethane cracker chemical plant expansion, Clarke provided signal design support for multiple intersections. His efforts included developing preliminary signal permit plans, developing timing models, conducting field investigations, providing quantities, constructability reviews, and signal construction inspection. Clarke's experience in CE&I make him an excellent resource for design since he's able to identify constructability issues. Additionally, Clarke provided support for the first Adaptive corridor installed in the state of Louisiana. Along Sampson St., an adaptive corridor was implemented and is currently operational. Clarke was involved in the Synchro modeling, TSI documentation, and producing as-built drawings for the system.
February 2018 – July 2019	**System B (LA 108) Adaptive Traffic Signal Corridor (Westlake):** Clarke was the Project Manager for the implementation of the System B adaptive traffic signal corridor. In addition to allocating IP addresses, configuring devices (both for network communication and signal operation), and managing construction and coordination, Clarke worked to bring an isolated traffic signal into the adaptive system through cellular communication. Clarke worked with DOTD to use a private cellular network to remotely connect to the signal equipment. He configured the cellular modem to allow port forwarding of the devices required for the adaptive system and oversaw the installation and configuration for all of the equipment for these signals. The communication system is currently active and the signals have been integrated into DOTD's adaptive system. Clarke is currently responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify ITS LLC and DOTD with issues.
June 2018 – July 2019	**US 90 Adaptive Corridor (Westlake):** Clarke performed network design and construction project management for the US 90 adaptive traffic signal corridor in Westlake, LA. In addition to performing the initial field wireless testing to determine appropriate frequency, power, mounting heights, etc., Clarke designed and allocated IP addresses for the various equipment at these intersections. He programmed

	controllers, switches, radar detection, and wireless Ethernet radios. The communication system is currently active and the signals have been integrated into DOTD's adaptive system. Clarke is currently responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify ITS LLC and DOTD with issues.
March 2019 – April 2020	**H.012661 D07 FYA – US 171 Adaptive Traffic Signal Corridor (Sulphur):** Clarke served as Project Manager in addition to performing network design, integration, and performance monitoring for the Adaptive traffic signal corridor installed in Sulphur, LA. From initial field wireless testing to device configuration and installation to network and traffic performance monitoring, Clarke was involved in creating a quality project with proven reliability and proven performance. Phasing construction to set up communications prior to the Adaptive turn on in November 2019 allowed ITS LLC to create a baseline for traffic operations to compare against active Adaptive system operation. ITS LLC also utilized NMS software to evaluate the network communications for speed, uptime, and reliability. Performance monitoring for the project is ongoing.
April 2019 – May 2020	**LA 1256 (Ruth St.) Adaptive Traffic Signal Corridor (Westlake):** In order to create an adaptive traffic signal corridor along LA 1256, Clarke designed the communications network which would be responsible for handling all of the live traffic data for the corridor. For the adaptive corridor to function optimally, constant communication is required between the traffic signal and adaptive server at DOTD D07's TMC. Clarke allocated IP addresses for the devices and equipment at each signal along the corridor. He evaluated the path required for VLAN through an existing DOTD fiber optic ring for communication between the project site and DOTD D07 TMC. He performed wireless testing to evaluate whether 2Ghz or 5Ghz band frequencies would provide better performance along the corridor. He determined proper configuration for each network switch and wireless radio along the corridor. Clarke serves as Project Manager in addition to performing network design.
February 2016 - present	**DOTD ITS Maintenance (44-7102. 44-16811), Statewide Louisiana:** Clarke has served as a pre-professional and now as engineer for the existing ITS Maintenance Retainer. He has performed routine maintenance on emergency crossover gates, travel time message system, CCTV camera sites, RVD sites, ramp meter sites as well as DMS sites. His skills include, but are not limited to, device troubleshooting, communication and network troubleshooting, parts replacement, site cleaning, insect extermination, traffic control setup, as well as coordinating with law enforcement, TMC operations staff, and DOTD. Let's not forget his investigation to find solutions for maintenance problems. For example, Clarke recently located a short and replaced access control boards in the Twinspan crossover gate system which allowed it to be brought back into operation. In addition to setting up monitoring for recent hub site generators, Clarke determined a solution for monitoring all existing generator sites. Clarke also designs platforms for hard to reach handholds at camera sites, usually on three way slopes. Clarke carries a Class D license to drive bucket trucks used in maintenance operations.

16. Staff Experience:

Firm employed by	Intelligent Transportation Systems LLC				
Name	**Colin Francis, EI**		Years of relevant experience with this employer	<1	
Title	Engineer Intern		Years of relevant experience with other employer(s)	<1	
Degree(s) / Years / Specialization			Bachelor of Science – Civil Engineering – 2021		
Active registration number / state / expiration date			EI 35053 / Louisiana / 09.30.2022		
Year registered	2022	Discipline	Civil Engineering – Engineer Intern		
Contract role(s) / brief description of responsibilities			Traffic Study Updates, Adaptive Traffic Signal Design		

Colin Francis, E.I., currently serves ITS LLC as an Engineer Intern. Colin is a recent graduate and has nearly a full year of combined experience as a student intern and post-graduate Engineer Intern. Colin has assisted with a variety of traffic impact studies, safety analyses, and traffic signal design projects. Additionally, Colin has been part of different aspects of ITS maintenance and installation work including CCTV camera testing and configuration, radio testing, and fiber testing. Colin has completed the DOTD Traffic Engineering Process and Reports, Parts I, II, and III trainings.

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 time specified in the applicable MPR(s).
May 2022 – Present	**DOTD ITS Maintenance (44-7102. 44-16811) (Statewide Louisiana)**: Colin is performing maintenance, troubleshooting, and installation functions on the existing DOTD ITS Maintenance Retainer. He has performed routine maintenance on CCTV camera sites, RVD sites, ramp meter sites, and DMS sites. His skills include device troubleshooting, communication and network troubleshooting, parts replacement, and site cleaning. Colin carries a Class D license to drive bucket trucks used in maintenance operations.
December 2021 – May 2022	**US 190 at Market Street Extension (Tangipahoa Parish)**: The scope of this study included traffic engineering services and permit assistance to Tangipahoa Parish Government for the Farris Property Development. Eleven intersections were included in traffic evaluations and analysis. This study conformed with the DOTD Traffic Engineering Policy and Report (TEPR) requirements and amended directions included in the DOTD COVID-19 Traffic Impacts Policy, consisted of traffic counts, turning movement counts, and driveway/residential roadway counts during the peak hour. Colin assisted with the preparation of the drafts and the final report, which included collected data, the existing safety analysis, the existing and no build analysis, and the alternative analysis. He compiled initial traffic count data to determine the peak period of traffic for the study area and performed the initial collection and compilation of crash history data from DOTD to complete the existing safety analysis and crash diagrams.
December 2021 – May 2022	**LA 93 Traffic Impact Study (Lafayette Parish)**: Colin served as an Engineer Intern on a study for the City of Scott to determine traffic impacts of three proposed developments, including two Intersection Control Evaluations (ICE) and a safety evaluation. Coin's role included using the TEPR system of reporting to determine peak period and peak hour of traffic volume, implementing the use of ArcGIS to map the crash history of the corridor, and using excel to implement trip generation values to existing traffic volumes.
December 2021 – May 2022	**S.P. No. H.013367, Elm Grove Garden Pedestrian Improvements (East Baton Rouge Parish)**: Elm Grove Garden Drive is a residential street with a public elementary school where there is an existing sidewalk on the school property but not along the corridor. The goal of this project is to provide 1.68 total miles of pedestrian facilities along the entire corridor. The residents of this area regularly travel to work, school, commerce, and recreation via walking and biking. The existing drainage facilities include open-ditch systems but will be upgraded as needed to accommodate the sidewalk construction. Colin assisted in MicroStation project plan design files.

16. Staff Experience:

Firm employed by	**Wingate Engineers, LLC**			
Name	Joshua Torregano, P.E.	Years of relevant experience with this employer	4	
Title	President/Principal In Charge	Years of relevant experience with other employer(s)	8	
Degree(s) / Years / Specialization		BS, Civil Engineering, University of New Orleans/2011 MBA, University of New Orleans/2017		
Active registration number / state / expiration date		P.E. No. 40432/Louisiana/ 9-2022		
Year registered	2016	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Principal In Charge, Chief Engineer		

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 time specified in the applicable MPR(s).
	Joshua Torregano, P.E. is a licensed professional engineer and experienced project manager who has led a variety of different types of design, construction, and management projects throughout Louisiana and the Gulf South Region. His education includes a B.S. in Civil Engineering, and a Master of Business Administration. His diverse professional background has earned him valuable experience across multiple disciplines throughout his career. Mr. Torregano has managed and delivered multi-million-dollar projects for private and governmental organizations. As principal engineer of Wingate Engineers, LLC, Mr. Torregano leads various engineering, construction, and project management activities.
7/2022- Current	**Asset Management of Street and Area Lighting- New Orleans, LA:** Project Executive. Josh Torregano, P.E. is serving as the Project Executive for this multi-year asset management contract for the City of New Orleans. The team is responsible for the ongoing assessment and management of the City's maintenance of the 57,000 plus street and area lights that are owed by the City of New Orleans. Under this contract, the team is responsible for day and nighttime assessments, GIS mapping, scheduling, monitoring and management of the City's streetlight maintenance contractor, All Star Electric.
9/2021- Current	**Emergency Drainage Assessment, Cleaning, Construction Management, and Debris Monitoring Services, New Orleans, LA:** Project Engineer/Project Manager. Josh Torregano, P.E., is serving as the Project Engineer/Project Manager, which to date has been responsible for the identification, assessment, scheduling, and QC/QC of over 15,000 City of New Orleans drainage assets, including catch basins, manholes, lateral and main drain lines. Josh is also in charge of the efforts of the cleaning phase which will involve the management and inspection of the cleaning of the identified assets.
7/2021-Current	**Slidell Breakwater Restoration Feasibility Study:** Project Executive. Wingate, as a subconsultant to Neel-Schaffer, has been engaged to assist in design efforts by providing 3 alternative preliminary design recommendations for both Phase 1 – Eden Isles as well as Phase 2 – Carr Drive. Wingate is responsible for reviewing and developing figures of know utilities and inclusion of information of project plan development.

	Wingate is also assisting in the development of alternative designs, while drafting sections for each of the alternative design plans, with an emphasis on developing access corridors along the breakwater from deeper waterways for barge and marine traffic
10/2020-Current	**2019 Drainage Improvement Projects, New Orleans, LA:** Civil Engineer. Evaluation, design and construction management of city-wide drainage improvements ranging from point repairs and catch basin adjustments to the design of entirely new drainage infrastructure across several city blocks within residential and commercial areas as well as the Central Business District.
3/2018- 6/2019	**Tribal Transportation Program, Various Indian Reservations- Arlington, Washington/Alberqurque, New Mexico:** Project Engineer. The Tribal Transportation Program (TTP) was established by the Surface Transportation Assistance Act of 1982, and addresses transportation needs of the 573 federally recognized Indian Tribes and Alaska Native Villages by providing funds for planning, designing, construction, and maintenance activities. The project team was tasked by the Federal Highway Administration (FHWA) to conduct compliance reviews of the of the Tribal Transportation Program. The purpose of these reviews is to ensure funds provided by the program are being properly used in accordance to the program's standards. As a sub-consultant to The DMP Group, Wingate was responsible for reviewing all engineering and construction operations for infrastructure projects.
4/2021- Current	**NORA Community Adaptation Program—Round 2, New Orleans, LA*:*** Project Engineer/Project Manager. The City of New Orleans and the New Orleans Redevelopment Authority (NORA) are undertaking a network of initiatives to help study, educate, and implement green infrastructure projects citywide. In order to promote better green infrastructure improvements on individual residential properties, NORA will oversee the design and implementation of stormwater management interventions through the new Community Adaptation Program (CAP) in the Gentilly neighborhood. Wingate is responsible for the schematic design and construction of all drainage, stormwater management, landscape architecture and beautification elements of the program.
2/2019-1/2021	**SWBNO Water Line Replacement Program, New Orleans, LA*:*** Project Engineer/Project Manager. This project consisted of waterline and road design in accordance to SWB, CNO, and Federal DOT Standards. This phased design project included surveying, preliminary and final design, construction administration and inspection services.
1/2017 – 3/2018	**VA Medical Center Underground Infrastructure Study & Design, Jackson, MS:** Project Engineer/Project Manager. The project included an in-depth study and subsequent design of repairs for the water, sanitary and storm sewer systems. Services provided consisted of evaluating deficiencies, recommending improvements and providing engineering design services for approved corrections to the underground utility system

16. Staff Experience:					
Firm employed by	**Wingate Engineers, LLC**				
Name	Daniel Lee, E.I.		Years of relevant experience with this employer	1	
Title	Engineer Intern		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			BS, Civil Engineering – University of New Orleans- 2015		
Active registration number / state / expiration date			**E.I. #0035001/ Louisiana/ 3-2024**		
Year registered	2021	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Engineer Intern/Project Manager		

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 time specified in the applicable MPR(s).
Daniel Lee, E.I. is a Registered Engineer Intern with 7 years of Civil Engineering Experience. Mr. Lee began his engineering career at Sewerage & Water Board of New Orleans providing engineering support and then worked at Department of Public Works as a project manager. Mr. Lee is experienced in development of cost estimates, drainage designs, preparation of specification, construction inspection, and project delivery from start to finish	
2/2022–Current	**Alton Revitalization Program, St. Tammany, LA:** Project Lead/Project Engineer. Project Lead/ Project Engineer. This project consists of the evaluation of the conditions of critical public infrastructure in an identified area of St. Tammany Parish. Daniel is responsible for the assessment and data collection phase, public outreach/community engagement, stakeholder coordination, as well as design and consultant recommendations
2/2022-Current	**Emergency Drainage Assessment, Cleaning, Construction Management, and Debris Monitoring Services (New Orleans, LA):** Client Services Manager/Community Engagement Specialist. Randy Smith is the client services manager on this project, which to date has been responsible for the identification, assessment, scheduling, and QA/QC of over 15,000 City of New Orleans drainage assets. Randy is also in charge of all interagency coordination efforts as well as all community engagement and outreach efforts on this project. Wingate is responsible for the schematic design and construction of all drainage, stormwater management, landscape architecture and beautification elements of the program.
2/2021-Current	**Slidell Breakwater Restoration Feasibility Study:** Project Manager. Wingate, as a subconsultant to Neel-Schaffer, has been engaged to assist in design efforts by providing 3 alternative preliminary design recommendations for both Phase 1 – Eden Isles as well as Phase 2 – Carr Drive. Wingate is responsible for reviewing and developing figures of know utilities and inclusion of information of project plan development.

	Wingate is also assisting in the development of alternative designs, while drafting sections for each of the alternative design plans, with an emphasis on developing access corridors along the breakwater from deeper waterways for barge and marine traffic.
1/2017 - 1/2021	**Joint Infrastructure Recovery Roads Program (JIRR) Phase III ($2.4B)**, **New Orleans, La:** Project Manager. This program is a joint effort with Sewerage and Water Board and Department of Public Works to restore damaged infrastructure. This program includes, FEMA funded Waterlines, Future SSERP, and upgrades to Drain lines along with roadway repairs. Mr. Lee managed 11 projects in design phase and was a team lead in scoping and creating new projects for unaddressed streets.
4/2018 - 1/2021	**City of New Orleans Department of Public Works W661 Conti St (Chartres – Bourbon) ($4M),** (**New Orleans, La):** Project Manager. This project includes Full Roadway Reconstruction with upgrades to underground utilities such as Sewer, Water, and Drainage and full sidewalk replacement to ADA compliance in the French Quarter.Mr. Lee was the owner (City of New Orleans) direct point of contact and was fully responsible for the project's success from start to finish by reviewing and approving design plans, reviewing and approving project specification, resolving unforeseen conflicts, and oversight of the entire project.
7/2019 – 1/2021	**City of New Orleans Max Pave Program (Interim Pavement Restoration) ($6M):** Project Manager. This program was created to restore existing Sewerage and Waterboard open and/or interim service cuts to a modified standard. Mr. Lee was the owner (City of New Orleans) direct point of contact and was fully responsible for the program's success from start to finish by reviewing inspection reports, planning, and directing work, and coordinating with different entities.
3/2019 – 9/2020	**City of New Orleans Department of Public Works W641 St. Charles Ave ADA Streetcar Stops ($500K) (New Orleans, LA):** Project Manager. This project was a joint effort with DPW and RTA to convert Six streetcar stops that are heavily populated with pedestrians and vehicles to a more accessible and ADA compliant Stops. Mr. Lee was assigned as the project manager in the construction phase and was responsible for a success completion of the project.
7/2019 – 1/2022	**City of New Orleans Department of Public Works (Maintenance Repairs) (New Orleans, La):** Lead Project Manager. Department of Public Works Maintenance Division budgets set amount of dollars each year to repair any existing utility failures such as drain line, catch basin, manholes and restore uneven pavement such as roadways and sidewalks. Mr. Lee was Lead Project Manager in the maintenance division was assigned to repair failures in the public right of way beneficially and practically to reduce safety hazards and keep efficiency.

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17. Experience:					
Firm name	C. H. Fenstermaker & Associates, L.L.C.		Past Performance Evaluation Discipline(s)*		Road, Traffic, ITS, Survey, Right-of-Way
Project name	Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385): DOTD Permit No. 153351, 153352, 153353		Firm responsibility (prime or sub?)		Prime
Project number	Not applicable	Owner's name	Lake Charles LNG		
Project location	Calcasieu Parish, LA		Owner's Project Manager	John Kelly	
Owner's address, phone, email	1300 Main Street, Houston, TX, 77002, (713) 989-7411, john.kelly@energytransfer.com				
Services commenced by this firm (mm/yy)	03/14	Total consultant contract cost ($1,000's)		$2,600	
Services completed by this firm (mm/yy)	11/17	Cost of consultant services provided by this firm ($1,000's)		$2,600	

Fenstermaker performed a traffic impact study as well as implementation for the construction and continued operation of three proposed facilities: Lake Charles LNG, Magnolia LNG, and G2X Energy. These facilities worked together to mitigate the impact of construction-related traffic on the area roadway network. Fenstermaker's scope of work included roadway and drainage design, access management coordination with DOTD, environmental permitting, right of way acquisition, utility relocation coordination, construction administration, and on-going program management. Fenstermaker's traffic impact study resulted in $25 million in roadway and traffic improvements.

Adaptive Traffic Signal Design: Fenstermaker's teaming partner, ITS LLC, was tasked with developing a plan to coordinate and manage traffic signal operations for anticipated fluctuating corridor traffic demand that included ATC controllers with fiber communications. The corridors to be managed include: LA 1138-2 (Nelson Rd), LA 14 (Gerstner Memorial Blvd) / LA 3092 (Tom Hebert Rd), LA 385 (Ryan St / McNeese St / Gulf Highway), and LA 384 (Country Club Rd). ITS LLC was also required to provide TSI and Plan Sheets with signal permitting which included proposed phase timings for each development phase.

Revised Traffic Study: ITS LLC was also tasked with performing an updated traffic study along three major corridors crossing I-210 in Lake Charles, LA to determine the impacts of the facility development, both during and after construction, and identifying areas for improvements. Since the region was undergoing unprecedented industrial growth, and subsequently residential and commercial growth, the traffic study was expansive and changed scope multiple times throughout the process as more information was known about future developments in the area. The study ultimately led to proposed signal improvements along the three corridors as well as additional isolated and temporary signals. ITS LLC was also tasked with creating permit plans for almost **30 unique traffic signals** including along coordinated corridors, isolated permanent, and **isolated temporary signals** which were fully actuated.

Staff to be used in this proposal:
Butch Babineaux, P.E. | Jessica Pousson, P.E. | Dax Douet, P.E. | Carson Washington, P.E. |Aimee Latiolais, P.E. | Travis Bodin, MBA, PLS, PMP | Bradford Millett, PLS, EI

Firm name	C. H. Fenstermaker & Associates, L.L.C.	Past Performance Evaluation Discipline(s)*	Road
Project name	City of Lake Charles Sidewalk Construction (2018-2019)	Firm responsibility (prime or sub?)	Prime
Project number	Not applicable	Owner's name	City of Lake Charles
Project location	Calcasieu Parish, LA	Owner's Project Manager	Kelli Van Norman
Owner's address, phone, email	320 Pujo Street, Lake Charles, LA, 70601, (337) 491-1490, kell-vannorman@cityoflc.us		
Services commenced by this firm (mm/yy)	01/2018	Total consultant contract cost ($1,000's)	$114
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$114

Fenstermaker provided engineering services for sidewalk upgrades in the City of Lake Charles and designed over 13,000-ft. of sidewalks at the following separate sidewalk locations: Madeline Street -Common Street to Kirkman Street; Canal Street – Sale Road to W. McNeese; Nelson Road (LA 1138-2). – McNeese St. South to Evergreen Apartments; Bilbo Street – Clarence Street. to Iris St.; Illinois St. – Brentwood to Walton; Lake Street – between 18th Street and Sallier Street; Lisle Peters Road – Big Lake Road (LA 384) to E. St. Charles Avenue; and Sale Road – Lake Street to Ryan Street. Sidewalks varied in width between 5-ft. and 6-ft., depending on available rights-of-way and servitudes. All existing sidewalks were brought up to ADA compliance standards. All intersections and driveways were redesigned to ensure they met ADA compliance standards, including ramp design and use of truncated domes where required. Crosswalks were proposed at intersections for pedestrian safety. To accommodate the proposed sidewalk improvements, subsurface drainage was required along the corridor. Fenstermaker utilized the DOTD Hydraulics Manual and software to design the inlet spacing and culvert sizes. Fenstermaker also worked with the City to determine the condition of the existing subsurface drainage system using dye testing and subsurface video surveys. Fenstermaker recommended the repair of damaged locations.

Project staff worked with the City to ensure that the project limits remained within existing rights-of-way and servitudes. Fenstermaker completed topographic survey of existing conditions and identified utility owners and coordinated potential conflicts. Multiple sidewalk locations tied into state routes, which required coordination with DOTD District 07 for a project permit.

Fenstermaker was responsible for the construction administration on this project, including coordinating all field activities with the contractor and providing inspection during this phase of the project. Additionally, Fenstermaker worked with utility providers to minimize impact and to promote cost savings to the overall project.

Staff to be used in this proposal:
Butch Babineaux, P.E. | Jessica Pousson, P.E. | Carson Washington, P.E. | Pat Landry, PLS, P.E.

Firm name	C. H. Fenstermaker & Associates, L.L.C.		Past Performance Evaluation Discipline(s)*	Road, Traffic, ITS	
Project name	Sasol Road and Traffic Intersection Improvements		Firm responsibility (prime or sub?)	Prime	
Project number	Not applicable	Owner's name	Sasol Chemicals (USA), LLC		
Project location	Calcasieu Parish, LA		Owner's Project Manager	Eric Flemming	
Owner's address, phone, email	2201 Old Spanish Trail, Westlake, LA, 70669. (337) 310-8543, eric.flemming@worleyparsons.com				
Services commenced by this firm (mm/yy)	01/17	Total consultant contract cost ($1,000's)	$2,000		
Services completed by this firm (mm/yy)	04/21	Cost of consultant services provided by this firm ($1,000's)	$2,000		

Fenstermaker was contracted by Fluor and Sasol Chemicals to provide engineering and consulting services for multiple projects in support of the Sasol Chemicals (USA), LLC - Lake Charles Chemicals Project (LCCP). Fenstermaker completed multiple tasks for various intersections, including John Stine & Sampson (LA 378), Old Spanish Trail & Evergreen, Sulphur (LA 379) & Guillory (LA 379), Houston River Road (LA 379) & Beglis (LA 27), John Stine & Houston River Road (LA 379), Old Spanish Trail & Trousdale, and Sampson (LA 378) & Sulphur (LA 379).

Fenstermaker provided topographic, boundary, and route surveying services to aid in coordinating with public and state agencies for the heavy haul route, road traffic improvements, and multiple pipelines. Services included mapping for the coordination and acquisition of agreements between Sasol and third-party utility companies, platting for acquisition and dedication of property needed for various construction activities and state agencies, and quality control services of construction activities that were being conducted on site which included monument review and location mapping. Fenstermaker was responsible for the field coordination, data processing, right-of-way generation, servitude and right-of-way mapping, and topographic surveys for this project following DOTD standards.

Fenstermaker's teaming partner on the proposed project, ITS LLC, worked with DOTD and Trafficware to turn on the first Adaptive Traffic Signal system in Louisiana. The system has eased travel along the corridor, allowing better progression and more efficient operations. This project ultimately brought 12 adaptive signals online and established the infrastructure needed to continue to add adaptive systems in the area. Sasol and the design team were recognized for their efforts by receiving the 2018 Louisiana Transportation Conference award for "Use of Innovative Product or Technology."

Staff to be used in this proposal:
Butch Babineaux, P.E. | Jessica Pousson, P.E. | Carson Washington, P.E. | Dax Douet, P.E. | Aimee Latiolais, P.E.
Travis Bodin, MBA, PLS, PMP | Bradford Millett, PLS, EI

Firm name	C. H. Fenstermaker & Associates, L.L.C.			Past Performance Evaluation Discipline(s)*	Road
Project name	Ham Reid Road Extension			Firm responsibility (prime or sub?)	Prime
Project number	Not applicable	Owner's name	Calcasieu Parish Police Jury		
Project location	Calcasieu Parish, LA			Owner's Project Manager	John Bruce, P.E.
Owner's address, phone, email	1105 Pithon Street, 2nd Floor, Lake Charles, LA, (337) 721-4100, jbruce@cppj.net				
Services commenced by this firm (mm/yy)	09/14	Total consultant contract cost ($1,000's)			$2,130
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)			$2,130

The Ham Reid Road Extension is a two-phase, $14.25 million construction project that includes a unique 1-mile asphalt roadway corridor, incorporating walkability and green infrastructure. The corridor includes a 2-lane (1-lane in each direction with a median) boulevard section with intersection improvements such as roundabouts. **Access management and connection to local roads were considered during the project layout.**

Fenstermaker worked with landscape architects to develop a sidewalk system along the corridor that immolated a park setting. The 4,700 feet of meandering sidewalk goes through an area that includes bioswales, detention areas, a tree canopy, and other green infrastructure techniques. These 8-foot sidewalks offer ample room for pedestrians and bicyclists as they enjoy the scenic views as well as the connectivity to local schools, churches, golf courses and neighborhoods. Fenstermaker hosted public meetings to inform the public and utilized hands-on exhibits displaying future conditions.

Fenstermaker was also responsible for engineering design and surveying services for the construction of a roundabout at the intersection of Nelson Road and Ham Reid Road. The construction consisted of sidewalks, subsurface drainage, and street lighting. Fenstermaker replaced an existing signalized intersection with a concrete paved roundabout. The limits of the project extended approximately 800 feet up each length of roadway from the intersection. This project required converting a five-lane asphalt road, a two-lane asphalt road, and a five-lane concrete road with a signalized intersection into a five-lane concrete road with a two-lane concrete roundabout.

Staff to be used in this proposal:
Butch Babineaux, P.E. | Jessica Pousson, P.E. | Carson Washington, P.E. | Dax Douet, P.E. | Aimee Latiolais, P.E.
Pat Landry, M.S., PLS, P.E. | Travis Bodin, MBA, PLS, PMP | Bradford Millett, PLS, EI

Firm name	C. H. Fenstermaker & Associates, L.L.C.	Past Performance Evaluation Discipline(s)*	Road
Project name	Old Spanish Trail and Evergreen Intersection Phase II	Firm responsibility (prime or sub?)	Prime
Project number	Not applicable	Owner's name	Sasol Chemicals (USA), LLS
Project location	Calcasieu Parish, LA	Owner's Project Manager	Louis Van Wyk
Owner's address, phone, email	2201 Old Spanish Trail, Westlake, LA, 70669, (337) 764-7942, louis.vanwyck@us.sasol.com		
Services commenced by this firm (mm/yy)	03/21	Total consultant contract cost ($1,000's)	$258
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$258

Fenstermaker provided engineering design services and construction administration and inspection services for Sasol Chemicals (USA) LLC's required improvements to the intersection of Old Spanish trail and Evergreen Road in Calcasieu Parish. The improvements included an additional dedicated turn lane.

Fenstermaker's services included:

- Redesigning final plan sheets, quantities, and technical specifications
- Coordinating with the Parish to review and revise plans based on the Parish's updated requirements
- Revising the Evergreen Road horizontal and vertical alignments
- Providing construction management services throughout the project's construction phase (estimated duration of 5 months)
- Coordinating meetings with the selected contractor, Sasol Chemicals, and the Parish
- Providing full-time inspection services during construction, as required by the Parish
- Performing engineering coordination with 5 utilities companies: AT&T, Centerpoint, Entergy, Suddenlnk, and Vyve

Staff to be used in this proposal:
Jessica Pousson, P.E. | Carson Washington, P.E. | Pat Landry, M.S., PLS, P.E.

Firm name	Intelligent Transportation Systems LLC			Past Performance Evaluation Discipline(s)*	Traffic
Project name	LA 27 at Burton Shipyard Rd – Intersection Warrant Study, Design, and Installation			Firm responsibility (prime or sub?)	Sub
Project number	(private)	Owner's name	Driftwood LNG | Tellurian, Inc.		
Project location	Sulphur, LA		Owner's Project Manager	Ashley Womack	
Owner's address, phone, email	1201 Louisiana Street, Suite 3100; Houston, TX, 77002 | 832.320.9273 | ashley.womack@tellurianinc.com				
Services commenced by this firm (mm/yy)	03/2018	Total consultant contract cost ($1,000's)		(confidential)	
Services completed by this firm (mm/yy)	05/2022	Cost of consultant services provided by this firm ($1,000's)		(confidential)	

The development of a new liquefied natural gas production and processing facility in Calcasieu Parish by Driftwood LNG necessitated a signal warrant analysis for a temporary signal to aid with traffic flow during the construction process. The new facility was expected to increase the volume on exiting roadways because of the vast number of workers required for the construction process. The intersection of LA 27 at Burton Shipyard Road is a major intersection that would be affected by this traffic as it leads to the entrance of the facility site. A previously completed traffic impact study (by others) determined the potential need for a temporary signal at this intersection. ITS, LLC performed the warrant analysis for the temporary signal.

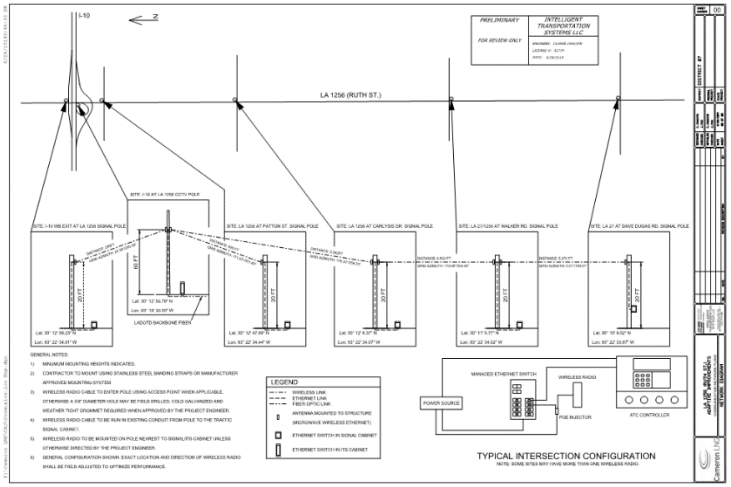
LA 27 and Burton Shipyard Road is a T-intersection, previously controlled by a stop sign for traffic on Burton Shipyard Road. Data was collected and analyzed according to DOTD guidelines and evaluated against the Signal Warrants outlines in the Manual on Uniform Traffic Control Devices (MUTCD). The projected volumes during construction met Warrant 3 for both the AM and PM peak hours, triggering further evaluation. The volumes were evaluated on a month-by-month basis for the duration of projected construction, as volumes would fluctuate based on the phase of the construction. Ultimately it was determined that Warrant 3 was projected to be met for the duration of construction over a four-year period. However, once construction was complete and typical plan operations began, the warrant would no longer be met. Therefore, a temporary signal for a period of approximately four years was recommended. DOTD elected to require the traffic signal to be adaptive based on anticipated fluctuations in traffic volumes. It was determined that an isolated Adaptive signal would be ideal for this application.

ITS, LLC was then tasked with the design of the temporary signal at this intersection. ITS, LLC prepared the permit plans and obtained the Document 2 Permit Package from DOTD on behalf of Tellurian (Driftwood LNG). Included in this were tasks such as signal permit processing, preliminary equipment planning, equipment purchasing and storage in preparation of the LA 27 at Burton Shipyard Road temporary signal installation to allow construction to begin with 30-day notice. ITS, LLS also performed a wireless communication assessment for the signal location. The design included a span-wire pole-mounted cabinet with 980 ATC signal controller, radar vehicle detectors, and wireless communication equipment.

ITS, LLC was subsequently tasked with the installation of the temporary signal. This phase included project management, construction management, installation, testing, configuration, and integration work to satisfy the specification requirements of the DOTD for a temporary adaptive traffic signal. The installation included a span-wire signal, radar detection, a local Ethernet switch, cellular communications for site connection to the DOTD District 07 Adaptive Server, and live performance monitoring and optimization of the adaptive settings.

ITS LLC Personnel:
Clarke Chauvin, P.E., PTOE, PMP Jonathan Fox, P.E., PTOE, PMP

Firm name	Intelligent Transportation Systems LLC	Past Performance Evaluation Discipline(s)*	Traffic
Project name	Cameron LNG – LA 1256 (Ruth Street) Adaptive Corridor	Firm responsibility (prime or sub?)	Sub
Project number	DOTD Permit Nos. 15384-153844	Owner's name	Cameron LNG
Project location	Westlake, LA	Owner's Project Manager	Tim Wright
Owner's address, phone, email	301 Main Street; Hackberry, LA | 337.680.4677 | tim.l.wright@mcdermott.com		
Services commenced by this firm (mm/yy)	04/2019	Total consultant contract cost ($1,000's)	(confidential)
Services completed by this firm (mm/yy)	12/2019	Cost of consultant services provided by this firm ($1,000's)	(confidential)



ITS LLC performed network design and construction to provide communications for the Lake Charles area's new Adaptive corridor improvement.

The LA 1256 (Ruth St.) corridor will be upgraded from the intersection with I-10, headed south, to the intersection of LA 27 at Dave Dugas Rd., coordinating a total of 5 traffic signals over 3 miles apart. Communications across these distances require equipment capable of making these long communications shots and multiple types of radios were used in the design of this communications network.

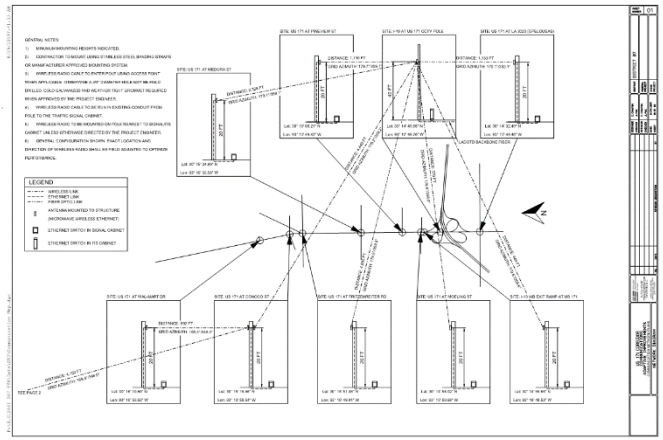
ITS, LLC was responsible for determining available network allocations for communications equipment and signal equipment along the corridor. The adaptive server uses static IP addresses and specific port numbers to communicate to the traffic signal controllers. This reliable communication is necessary to create a system which can collect and transmit traffic data, remotely optimize signal timings, and provide these more efficient timings back to the traffic signal controller in real time.

ITS, LLC was responsible for the design and construction of this wireless communications system and was involved in the Adaptive system turn-on, integration, and optimization.

ITS LLC Personnel:
Clarke Chauvin, P.E., PTOE, PMP | Jonathan Fox, P.E., PTOE, PMP

Firm name	Intelligent Transportation Systems LLC		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	Lake Charles FYA – US 171 Adaptive and LA 14 Adaptive		Firm responsibility (prime or sub?)	Sub	
Project number	H.012661	Owner's name	Louisiana Department of Transportation & Development		
Project location	Lake Charles, LA		Owner's Project Manager	Tyson Thevis	
Owner's address, phone, email	5827 Hwy. 90 East; Lake Charles, LA 70615 | (337) 437-9200 | tyson.thevis@la.gov				
Services commenced by this firm (mm/yy)	07/2019	Total consultant contract cost ($1,000's)	306.5		
Services completed by this firm (mm/yy)	12/2019	Cost of consultant services provided by this firm ($1,000's)	306.5		

The traffic signal systems on US 171 and LA 14, designed by ITS LLC, represent Louisiana's largest corridor deployment of Adaptive traffic signals. US 171, stretching from Lake Charles to Moss Bluff, is a major route for commuters in and out of the city. This signal corridor contains eleven traffic signals in just over five miles. Additionally, this project included a second eight-signal corridor further south along LA 14 which is currently under construction. With no existing DOTD communications in the LA 14 corridor, ITS, LLC designed and implemented a 3.5-mile wireless radio shot to provide the required communications from the LA 14 corridor to the SynchroGreen Adaptive management server at the DOTD District 07 Office.



Technology Integration: ITS, LLC worked with Trafficware/Cubic and DOTD District 07 to integrate these signals into DOTD's existing SynchroGreen system and ATMS.now. In addition to performing configuration on a variety of devices including switches, radios, Bluetooth detection, signal controllers, and vehicle detection, ITS, LLC set up solutions to monitor devices and traffic.

Performance Monitoring: Through the use of ATMS.now and SynchroGreen, signal performance data is logged and can be reviewed. Through the use of BlueArgus, travel times were monitored before and after the implementation of the Adaptive system to verify results. Through the use of PRTG, intelligent devices are monitored for communication reliability. Through the use of UNMS, the wireless radios and associated links are monitored for signal performance and device uptime. Performance monitoring was a key component to this project. Issues and glitches are immediately detected and resolved before they can problems. This has resulted in identifying power issues unrelated to the signal equipment, providing DOTD advanced notifications and additional assurance of proper signal operations.

ITS LLC Personnel:
Clarke Chauvin, P.E., PTOE, PMP | Jonathan Fox, P.E., PTOE, PMP

17. Firm Experience:					
Firm name	Wingate Engineers		Past Performance Evaluation Discipline(s)*	Road	
Project name	City of New Orleans CDBG Citywide Drainage Improvements		Firm responsibility (prime or sub?)	Sub	
Project number	N/A	Owner's name	City of New Orleans – DPW (Greenpoint Engineering)		
Project location	New Orleans, Louisiana		Owner's Project Manager	Amer Tufail, P.E.	
Owner's address, phone, email	701 Loyola Ave., Suite 801, New Orleans, LA 70113/ 504.708.2020/ amer@greenpoint-e.com				
Services commenced by this firm (mm/yy)	10/20	Total consultant contract cost ($1,000's)		$75	
Services completed by this firm (mm/yy)	2023	Cost of consultant services provided by this firm ($1,000's)		$40	

Wingate Members Involved in this Project: Joshua Torregano, P.E, Randy Smith, Daniel, Lee, E.I.

Project Disciplines: Civil Engineering, Plan Review, Project Development, Construction Management, Project Administration, Plan Review, Drafting

Project Description: In the Fall of 2019, The City of New Orleans Department of Public Works hired a team of consultants, led by GreenPoint Engineering to provide engineering, contract administration, construction management and resident inspection services to address drainage repairs across the City of New Orleans through Community Development Block Grant (CDBG) funding. To determine the full scope and cost of the needed repairs, validation of the drainage deficiencies to be addressed was required in the subsequent design phase. Using historical records of sites within the DPW's initial list of drainage needs, Wingate performed field site assessments and subsequent analysis to determine the required course of action for each site.

The field investigation revealed that of the initial list of 98 sites, 36 sites had been addressed since the CDBG application was prepared and were therefore removed from the scope of the project. Review of ongoing repair work identified 22 repair sites were found to fall within the scope of on-going Joint Infrastructure Recovery Request (JIRR) projects and could therefore be included within the scope of the corresponding JIRR projects' designs. Wingate is assisting GreenPoint as they proceed with the design improvements of the remaining 40 sites. Of these sites, 15 sites require comprehensive drainage improvements, such as the installation of new drainage infrastructure and associated street and utility repairs, requiring more detailed hydraulic analysis and design. The remaining 25 sites require line repairs and catch basin adjustments that can be addressed by maintenance and repair construction contract.

17. Firm Experience:					
Firm name	Wingate Engineers		Past Performance Evaluation Discipline(s)*	Road	
Project name	Hurricane Ida- Emergency Drainage Assessments and Cleaning		Firm responsibility (prime or sub?)	Prime	
Project number	N/A	Owner's name	City of New Orleans – Department of Public Works		
Project location	New Orleans, Louisiana		Owner's Project Manager	Xavier Chavez-Reyes, P.E..	
Owner's address, phone, email	1300 Perdido Street, New Orleans, LA 70112/504.658.4000/Xachavezreyes@nola.gov				
Services commenced by this firm (mm/yy)	9/21	Total consultant contract cost ($1,000's)	$1.800		
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm ($1,000's)	$1,000		

Wingate Members Involved in this Project: Joshua Torregano, P.E, Randy Smith, Daniel, Lee, E.I., Tatiana Lewis, E.I., Dominique Sotres, Emma Butler, Terry Mundy, Alvin Butler

Project Disciplines: Project Management, Debris Monitoring, Quality Assurance/Quality Control, Construction Management, Resident Inspection, Digital Platform Management

Project Description: During the summer of 2021, Hurricane Ida blew over New Orleans, causing critical damage to the city's electrical and drainage infrastructure. The City of New Orleans Department of Public Works released an emergency solicitation seeking qualified firms who could manage the assessment and consequent cleaning of over 10,000 drainage assets including catch basins, man holes, and drain lines. Wingate was hired to perform construction administration and management services for this project, which involved leading 20-30 debris monitors as they assess target areas that have historically experienced flooding and subsequently managing the cleaning contractor. The drainage system needed significant cleaning and repairs and the urgency for these services was elevated due to debris littering the streets after Hurricane Ida. DPW identified funding and resources to implement emergency cleaning and repairs for approximately 6,000 drainage assets and 120,000 linear feet of adjacent drain lines.

Wingate was responsible for managing one cleaning contractor, Hardrock Construction Company. Wingate and Hard Rock were tasked with cleaning the drainage assets within 120- calendar day period. Wingate provided all construction management, data management, reporting, reporting platform deployment, quality assurance, administration, resident inspection, pay applications, and closeout services. This project was reimbursable through FEMA emergency funds, so Wingate was also responsible for complying with federal guidelines for grants management.

17. Firm Experience:					
Firm name	Wingate Engineers		Past Performance Evaluation Discipline(s)*	Road	
Project name	Tribal Transportation Program		Firm responsibility (prime or sub?)	Sub	
Project number	N/A	Owner's name	Federal Highway Administration (The DMP Group, LLC)		
Project location	Arlington, WA/ Albuquerque, NM		Owner's Project Manager	Maxine Marshall	
Owner's address, phone, email	2233 Wisconsin Ave. NW, Washington D.C., 20007/ 202.726.2630/ Maxine.marshall@thedmpgroup.com				
Services commenced by this firm (mm/yy)		03/18	Total consultant contract cost ($1,000's)		$375
Services completed by this firm (mm/yy)		06/19	Cost of consultant services provided by this firm ($1,000's)		$250(est)

Wingate Members Involved in this Project: Joshua Torregano, P.E

Project Disciplines: Civil Engineering, Plan Review, Project Development, Construction Management, Federal Compliance, Project Administration

Project Description: The Tribal Transportation Program (TTP) was established by the Surface Transportation Assistance Act of 1982, and addresses transportation needs of the 573 federally recognized Indian Tribes and Alaska Native Villages by providing funds for planning, designing, construction, and maintenance activities. The program is jointly administered by the Federal Highway Administration's Office of Federal Lands Highway (FLH) and the Bureau of Indian Affairs (BIA) in accordance with a memorandum of understanding.

As a sub-consultant to The DMP Group, Wingate's responsibility was to review all engineering and construction operations for infrastructure projects. Services included: ° Review materials about Tribal roads projects provided in advance of the site visit ° Participate in the site visit as the Engineering & Construction Subject Matter Expert ° Site visits to last 2 full days at the Tribe's location. ° Coordinate with 2-3 tribal representatives to encourage best practices ° Lead the discussions and interview Tribal representatives on the topics of Project Development and Construction and Construction Management ° Review documents provided by the Tribe, including plans, specifications and estimates (P, S & E) and construction project files ° Complete the TTP reports for Project Development and Construction and Construction Management ° Draft final report, as needed, to record the observations and findings.

Section 18

LNG Center Layout Source: https://www.mcneese.edu/news/mcneese-announces-proposal-for-lng-center-of-excellence/

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18. Approach and Methodology:

Project Understanding

The Ryan Street (LA 385) corridor is an existing four-lane, undivided, concrete roadway with a thin asphalt overlay and is classified as an urban arterial between LA 3186 (McNeese Street) and Eddy Street in Lake Charles, LA. Ryan Street has a typical right-of-way width of 60' and a typical roadway section of four 11' travel lanes and 6' sidewalks along both east and west sides of the road. McNeese Street between Ryan Street and Louisiana Avenue is a five-lane concrete roadway section with a center two-way left turn lane that is classified as an urban arterial. McNeese Street has a typical right-of-way width of 85'-90' and a typical roadway section of four 11' travel lanes, one 12' two-way left turn lane, and 6' wide sidewalks on both north and south side between Common Street and Louisiana Avenue. The Ryan Street corridor consists of eight (8) signalized intersections, thirteen (13) unsignalized intersections, and approximately 126 access connections. The McNeese Street corridor consists of three (3) signalized intersections, five (5) unsignalized intersections, and 44 access connections. Ryan Street and McNeese Street provide access to various commercial properties, including numerous multi-business shopping centers, restaurants, McNeese State University (a public university), and FK White Middle School (a public middle school). With existing access to these commercial properties, the need for safe pedestrian facilities is required to ensure all modes of transportation are accommodated. Due to the abundance of businesses and school access connections along with intersections that have some of the highest crash rates in the region within these two corridors, **the goals of this project is to mitigate the causes of over representative crashes and improving operational efficiency at intersections by: updating the existing Traffic Study (completed in July 2019); include a design and evaluation of raised medians at eleven signalized intersections; design and evaluate the consolidation of existing access connections; replacement, modify and/or add pedestrian facilities to ensure ADA compliance; provide striping enhancements; design and implement an adaptive signal system throughout both corridors with the addition of pedestrian heads and push buttons; and add a northbound and southbound left turn lane at the intersection of Ryan Street and Sale Road by widening Ryan Street's approaches.**

The LA 385 (Ryan Street) corridor from LA 3186 (McNeese Street) to Eddy Street is part of a Stage 0 study, completed by Neel-Schaffer in July 2019 and updated by the Louisiana Department of Transportation and Development (DOTD) District 07 in June 2021 to include the McNeese Street corridor because of its connection to and influence on the Ryan Street corridor. Crash analyses were performed for segments and intersections along the study corridor. Data collection for the study was conducted in 2017 and includes 7-day classification counts, turning movement counts, speed data, and peak hour observations. An average growth rate of +1.5% per year was applied to determine future volumes for 2038. The study provides recommendations of several short-term safety improvements along with four long-term safety improvement alternatives. A few of the short-term safety improvements have been completed by DOTD after the traffic study and Stage 0 study were finalized; the intersection improvements at Ryan Street and McNeese Street (State Project H.002059) and the geometric changes at the intersection of Ryan Street and College Street to modify the southern leg of the existing concrete median adding a dedicated left turn lane and a third (3rd) northbound through lane. Another improvement along the Ryan Street corridor was completed by the City of Lake Charles by reconstructing Sale Road approached on the east and west side of the intersection to provide improved rideability, ADA pedestrian facilities, and drainage improvements. The Sale Road east and west approaches were constrained by right-of-way limitations when the short term improvement project was performed, therefore, geometric improvements needed to improve operational efficiency remain.

Project Approach

Traffic Report Update

The previous study considered access management improvements by way of driveway consolidation resulting in 44 less connections to the roadway at the time. It did not evaluate the **impacts of the installation of raised medians within the influence areas of the eleven intersections**. This update would address design concerns with the previous study determining impacts prior to the start of design and plan preparation. **Intelligent Transportations Systems LLC (ITS LLC) will perform the required study updates** by using the project team's nearly two decades of experience **performing traffic and safety analysis**. The traffic study update will utilize the state's current laws and policies regarding the implementation of access management principles on state highways (**LAC Title 70, Part I, Ch 15 and the DOTD Access Connections Policy**. All of ITS LLC's engineering staff have completed the **DOTD Traffic Engineering Process & Report (TEPR) training** and will perform these study updates in accordance with the **TEPR guidelines**.

Since the original study was completed in 2019 (using 2017 data), various shifts in residential and commercial construction have occurred in the Lake Charles area as a result of two major hurricanes in 2020 and the COVID-19 pandemic. The impact of these events resulted in shifts in traffic patterns and affected enrollment and admissions in universities. McNeese State University had a total enrollment of 5,792 in the 2022 Spring Semester, a decrease from 7,287 students in the Fall of 2020. Conversely, the area has recently seen a major uptick in industrial development with the expansion of existing refineries and interest in new Liquified Natural Gas (LNG) construction. As a result of these shifts, new traffic counts should be collected and considered for the access management study updates, new turn lanes at Ryan and Sale Road and other geometric improvements associated with this project.

To update the study, the Team will meet with DOTD District 07 and Headquarters traffic engineers to determine areas of concern and define a scope for the study needed for updates including new data required. Considerable time savings are anticipated if the original analysis files are made available for the update (i.e., HCS and Vistro files). The updates will conform to TEPR procedures. Reviews will be conducted with DOTD throughout the process to ensure relevance and concurrence. ITS LLC will work in direct coordination with Fenstermaker throughout this process to ensure quick implementation of findings into the design process.

Adaptive Traffic Signals & Signal Upgrades

Adaptive signal control technology is an innovative method for managing congestion on corridors, especially where demand varies throughout the day or in an irregular way. The adaptive technology adjusts the signal timing to accommodate fluctuations in volumes in real-time, continuously distributing green time equitably for all movements while maintaining coordination for a corridor. This improves travel time reliability and reduces congestion. These systems use a combination of sophisticated detection, reliable communications, and advanced controller systems. The first adaptive traffic signal system (LA 378) in Louisiana was designed by **Intelligent Transportation Systems LLC (ITS LLC)** and installed in 2017 as part of the mitigation and corridor upgrades for the new SASOL plant expansion in DOTD District 07. Since that time, five additional corridors and four isolated intersections have been designed and implemented within the framework of the **District 07 Synchro Green Adaptive Server**, all of which were supported with design and integration by ITS LLC. ITS LLC previously worked with District 07 traffic engineers to conduct preliminary studies and design for an adaptive signal system on the Ryan Street corridor as part of mitigation efforts for a potential LNG facility. ITS LLC has supported the adaptive signal system manufacturer in system turn-ons, performing travel time runs and optimizing Synchro Green settings to improve performance. The two key components critical for an adaptive system to be successful are: **detection and communication**. Having engineers with proven experience in signal design and integration of adaptive systems is critical. ITS LLC designed the system currently operating in District 07 and continues to assist District 07 with monitoring and maintenance of their existing system.

A reliable communications system is essential to a successful adaptive corridor. Individual controllers at each intersection must be able to communicate with the Synchro Green Server at the DOTD District 07 Office. Because the Ryan Street corridor does not have an existing fiber network, a wireless system that aggregates to the existing DOTD fiber backbone at I-210 would be most practical, at first glance. Additional consideration could be given to the existing interconnect system of an older twisted-pair network if integrity could be verified. The current adaptive corridors in District 07 operate using Ethernet-based unlicensed wireless radios and cellular modems for isolated sites. ITS LLC recommends using this same type of communications method for the Ryan Street corridor. There is an ITS camera site on the southeast quadrant of the I-210/Ryan Street interchange that connects to the DOTD ITS fiber backbone. For communication with the signals, ITS LLC anticipates utilizing this camera site to establish a hub-and-spoke network. Hub-and-spoke wireless networks are preferable to daisy chain as it limits the dependency on upstream radios resulting in a smaller impact with a localized failure. The pole at this site is 85-feet tall and sits on a ~20-foot embankment, allowing for greater connectivity potential. Daisy chain connections would be used off the hub-and-spoke if the wireless analysis determines links to be unreliable or not possible. The communication integration to the Synchro Green Server at the DOTD District 07 Office would be accomplished by using the existing VLANS configurations throughout the communications path. The use of this configuration type allows isolation of the adaptive traffic from the other ITS-related traffic in the network. For monitoring purposes, it is ideal to have a video camera that can view the corridor, and the ITS camera at this location is also capable of performing that function. The need for additional cameras in the corridor will be assessed and feasibility determined as part of the detailed design.

Initially, base phasing plans are programmed into the system. ITS LLC recommends beginning with weekday morning (AM), mid-day (MD), evening (PM) and off-peak phasing plans as well as weekend phasing plans. It may also be advantageous to include special event phasing plans such as McNeese Football Gameday plans. Once these phasing plans are programmed and the adaptive component is turned on, field observation along with system adjustments are refined to optimize

performance. Beyond that, the system essentially takes care of adjustments required. In the rare instance that the adaptive system goes offline, each controller simply reverts to the current base phasing plan for that time of day, utilizing the same vehicle detection for improved performance, until the system is brought back online.

Part of this project includes the upgrade and/or implementation of pedestrian actuation with push-button sites at several intersections. The operation of these within the adaptive system is simple. Once a ped-button is actuated, the controller pulls that intersection out of coordination and services the pedestrian call. Once completed, it aggressively adjusts timings to get back into coordination by renegotiating the cycle length. This minimizes the amount of time the corridor is not in coordination and maximizes the flow of both vehicle and pedestrian traffic.

Utilities Identification and Matrix

Fenstermaker understands the importance of utility coordination and is familiar with the abundance of utilities within the project area and plans to develop a utility matrix that identifies utility providers and conflicts along the corridors. Having inspected the project area, Fenstermaker is aware of **potential utility conflicts**. With the use of **Louisiana One Call**, the project team is aware of fourteen (14) utility providers within the proposed project extents, namely CenterPoint Energy, AT&T, the City of Lake Charles, and Entergy. Through a site inspection, a possible conflict exists with electric distribution poles located along the back of the existing curb on the west side of Ryan Street. ADA compliance can be achieved within the existing right-of-way. Based on knowledge of the corridor, there is an extensive communications network consisting of underground communication vaults and duct banks.

Access Management

Access connections to state highways are managed by DOTD through the **Access Connections Rule (LAC Title 70, Part I, Chapter 15) and the DOTD Access Connections Policy** were developed to provide uniform guidelines for the State to allow landowners access to property from state highways while minimizing negative impacts to traffic operation efficiencies. These policies help analyze existing or proposed access connections and impacts on roadway traffic operations to help mitigate traffic congestion and potential safety hazards that are presented when a vehicle enters or exits the roadway. Fenstermaker's Team is very familiar with both documents and their requirements as we have prepared several access connection permits and project permits along state routes for a variety of clients.

Based on the existing Traffic Study and updates, Fenstermaker will review all existing access connections along the Ryan Street corridor to determine which connections could be consolidated to improve roadway safety and traffic flow by reducing potential for targeted crash types. By consolidating existing driveways and installing medians near the intersections along this corridor, the number of conflict points will be reduced thereby decreasing the potential for targeted crash types resulting in operational safety improvements. Driveway consolidation can yield a decrease in total crashes of up to 31% and, similarly, median installations in the influence areas of up to 40%.[1] A critical component of evaluating access management implementation, especially the installation of medians that will restrict turns near intersections, is to ensure drivers are provided with an alternative access to properties within the turn-restricted area. This will require local coordination.

Roadway, Driveway and Sidewalk Design & Striping Enhancements

The proposed improvements to Ryan Street at the Sale Road intersection will directly affect four unique landowners, as Ryan Street will require widening through these land parcels to allow for the installation of a NB and SB dedicated left turn lane. Fenstermaker is well-versed in the design of intersections, with countless projects designed by staff in various stages of construction or completion. Fenstermaker will use previous experience and the **DOTD Road Design Manual and AASHTO Green Book** to design and create a quality plan implementing all required improvements included in the revised project. Due to this intersection widening, at least nine commercial driveways will also require modifications to ensure a proper access connection.

Fenstermaker will utilize **DOTD standard plans, including DW-01,** for all access connections located along the curbed roadway. These details identify maximum joint spacing, maximum difference in grade that can be achieved without a vertical curve, and a general layout for both no curb and modified curbs through the driveway. Because the existing roadway currently provides curbing through each of the commercial driveways, all driveways would be designed using a modified curb.

DOTD has adopted a Complete Streets Policy allowing for consideration of all modes of transportation on all new and reconstructed roadway projects on state routes.

[1] https://ops.fhwa.dot.gov/access_mgmt/docs/benefits_am_trifold.htmhttps://ops.fhwa.dot.gov/access_mgmt/docs/benefits_am_trifold.htm

Fenstermaker will utilize this policy along with EDSM II.2.1.14 as a baseline for the design and reconstruction of the existing pedestrian facilities along both corridors. Fenstermaker has designed multiple facilities which incorporate a variety of sidewalk and pathway designs. A comprehensive striping plan utilizing DOTD's standard striping plans, policies, and guidance provided by DOTD District 07's Traffic Engineer would be developed and included in this project.

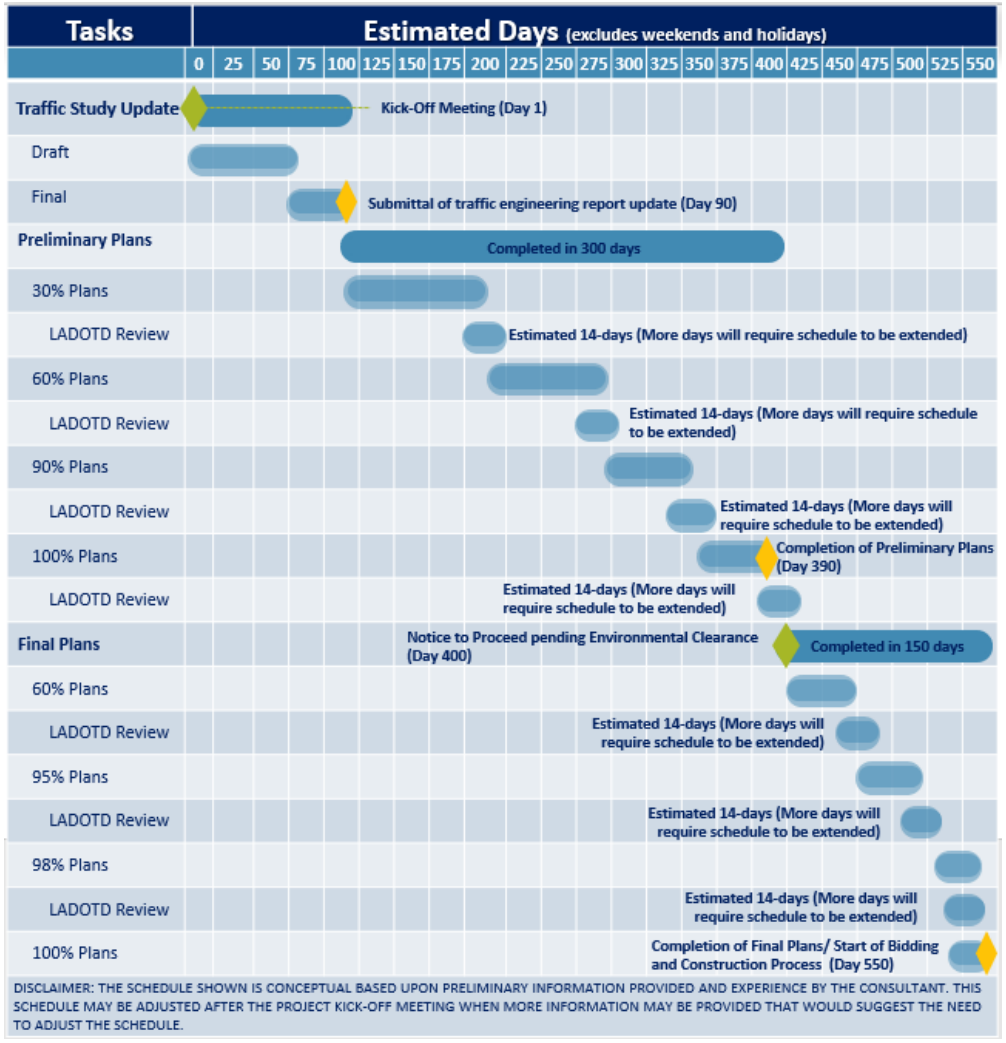
Project Considerations

Fenstermaker has identified challenges presented in this project, all of which have identified considerations for developing solutions which align with the goals of DOTD and the purpose of this project. Team members from Fenstermaker have **physically walked the corridors and observed traffic congestion as well as the multiple access connections and numerous utilities that are present**. The project may need to include reconstruction of existing subsurface drainage structure tops that are in direct conflict with the required widening, driveways, and sidewalks without reducing the system's existing capacity while accommodating widening at Sale Road. Due to the Sale Road offsets and locations of buildings adjacent to the intersection, the Ryan Street and Sale Road roadway corner radii are small and may require adjustment based on minimum turning paths of the selected design vehicle. Based on Fenstermaker's knowledge of the corridor as well as the fact that the City of Lake Charles currently does not have a transit route that turns at this intersection, and the percentage of heavy vehicles making right turns based on the existing 2017 traffic counts is low (<1%), the recommended minimum design vehicle would be the SU-40. Signing prohibiting truck traffic on Sale Road should be considered. Effective communications with business owners will be critical to minimize their opposition and facilitate the consolidation of driveways and construction of raised medians.

McNeese State University is currently remodeling the building on the Southwest corner of Ryan Street and Sale Road to be their new Student Health Services and Counseling Center and is also building a new LNG Center of Excellence that will be located just to the West of this location, with current plans of opening in Spring 2024. With these two additions that will be located across the street from the main campus, this will increase the pedestrian traffic traveling through the Ryan Street corridor as Student Health Services had over 1,200 visits for the previous school year and will be allowing nursing students to gain required education hours.

Project Schedule

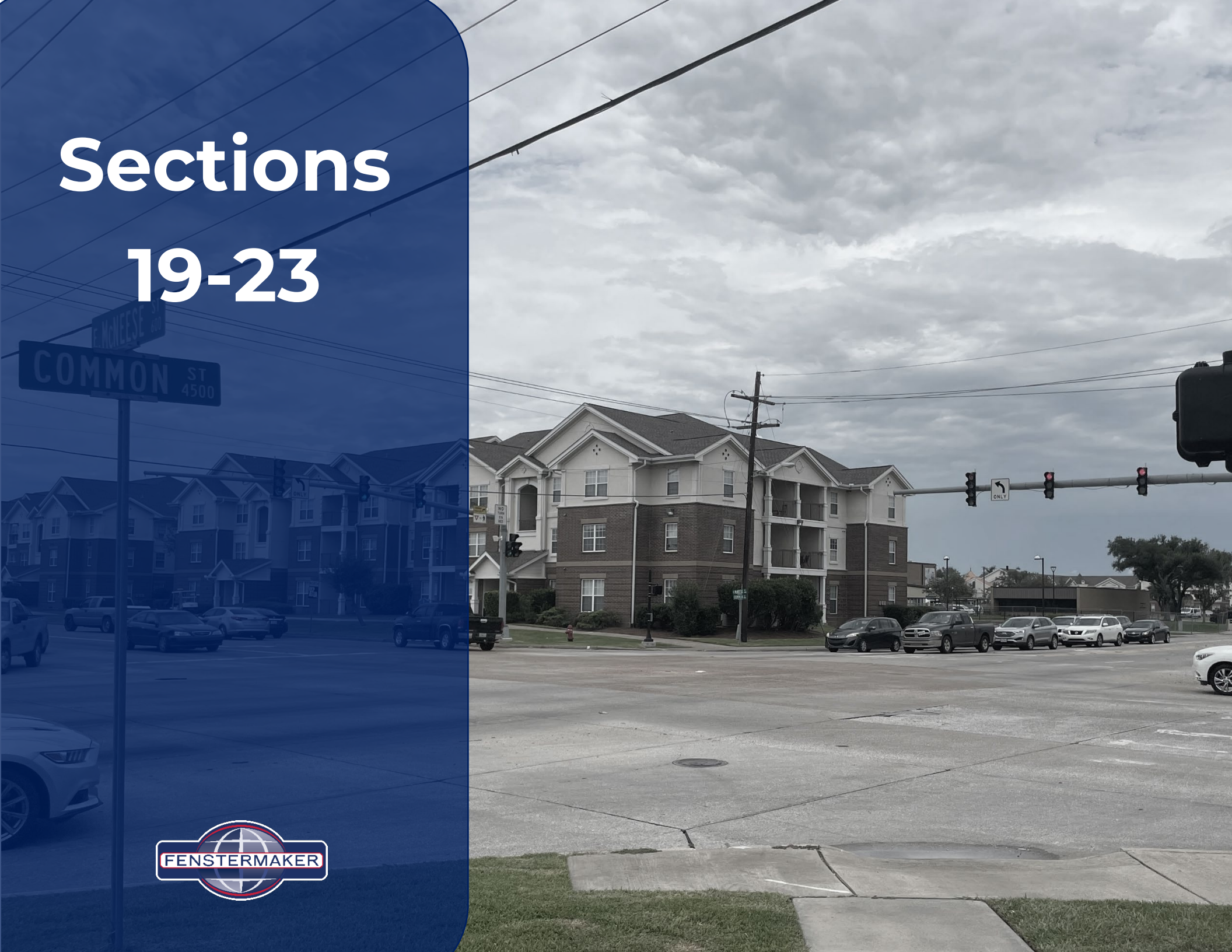
Equipped with the knowledge of DOTD's plan development process through preparation of numerous construction plans, Fenstermaker has prepared and included a sample schedule for the project detailing major milestones, deliverables, review periods, and tasks necessary to complete this project.



Commitment of Resources

The Fenstermaker Team's history with both design and plan production with a variety of projects ranging from intersection improvements to adaptive signal designs affords us the opportunity to know and understand the resources is takes to design and produce plans for this magnitude of a project. Fenstermaker is committing 16 staff members to this project, in both full and part-time roles depending on schedule, milestones, and unexpected design issues. Fenstermaker's Lake Charles office is located less than one quarter mile from the Ryan Street corridor and several key staff members drive both corridors on a daily basis. Fenstermaker's current involvement with the LWI will not impact our ability to perform on this project because the personnel used on those contracts are not the typical transportation personnel that will be used on this project.

Sections 19-23



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19. Workload:

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

1) one of the team's firms is responsible for the performance of the work;
2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
3) the work has not yet been performed and invoiced; and
4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.
List only the portion of the fees attributable to firms on the team.

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining Unpaid Balance**
C. H. Fenstermaker & Associates, L.L.C.	Data Collection, Planning, Survey	Contract No. 4400017090	IDIQ Contract for Louisiana Watershed Initiative (LWI) Region 4 (Task Order No. 2) Acadia, Allen, Beauregard, Calcasieu, Cameron, Sabine, and Vernon Parishes, LA	$1,356,189
	Data Collection, Planning, Survey	Contract No. 4400017090	IDIQ Contract for Louisiana Watershed Initiative (LWI) Region 4 (Task Order No. 3) Allen, Beauregard, Calcasieu, Cameron, DeSoto, Natchitoches, and Vernon Parishes, LA	$3,370,634
	Survey	Contract No. 4400017091	IDIQ Contract for Louisiana Watershed Initiative (LWI) Region 5 (Task Order No. 3) Lafayette Parish, LA	$440,617.50
	Survey	Contract No. 4400017092	IDIQ Contract for Louisiana Watershed Initiative (LWI) Region 6 (Task Order No. 2) Terrebonne Parish, LA	$136,572
	Survey	Contract No. 400017092	IDIQ Contract for Louisiana Watershed Initiative (LWI) Region 6 (Task Order No. 3) Assumption Parish, LA	$777,048.50

	Road	Contract No. 4400020291 S. P. No. H.012869	LA 182 (Univ) @ LA 723 (Renaud) Roundabout Lafayette Parish, LA	$312,125
	Road	Contract No. 4400020016 S.P. No. H.011833.5	St. Mary Street Sidewalks Lafayette Parish, LA	$156,504
	Planning	Contract No. 4400020960	Discovery NFIP CTP Statewide	$19,768
Intelligent Transportation Systems LLC (ITS LLC)	ITS	H.013256.5	I-10 ITS Scott to Lake Charles - Design	$13,520
	ITS	H.013256.6	I-10 ITS Scott to Lake Charles - Construction	$15,751
	ITS	H.014515	511 & ATMS SEA	$28,379
	ITS	H.014513.1	Lafayette Regional ITS Architecture	$2,564
	ITS	H.013710.6	I-10: US61 to LaPlace Deployment	$20,284
	ITS	H.012381.5	ITS FMS Data Collection/Inventory Services	$81,407
	ITS	H.011152	I-12- US 190 to LA 59	$49,382
	ITS	H.007160	EBR Computerized Signal Phase VB	$104,086
	ITS	H.001234.6	LA1 Port Allen Canal BR Replacement	$16,243
	ITS	H.013868.6(A)	ITS Routine Maintenance Engineering and Inspection (ME&I)	$689,907
	ITS	H.013868.6 (B)	ITS Responsive/Emergency ME&I Statewide	$133,211
	ITS	H.013868.5	ITS Maintenance Program Management and Operations	$64,698
Wingate Engineers, LLC	N/A	N/A	N/A	N/A

(Add rows as needed) DO NOT SUM

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

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. 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.

C. H. Fenstermaker & Associates, L.L.C. provides licenses and certificates of personnel as follows:

Robert Paul Babineaux, Jr., P.E.


LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Robert Paul Babineaux Jr.

License/Certificate Type - Number: PE.0023626
Expiration Date: 03/31/2024
Status: Active

Jessica C. T. Pousson, P.E.


LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Jessica C. T. Pousson

License/Certificate Type - Number: PE.0043716
Expiration Date: 03/31/2024
Status: Active

Mark Blaine Dubroc, P.E.


LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Mark Blane Dubroc

License/Certificate Type - Number: PE.0022618
Expiration Date: 03/31/2023
Status: Active

Carson Everett Washington, P.E.


LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Carson Everett Washington

License/Certificate Type - Number: PE.0043722
Expiration Date: 03/31/2024
Status: Active

Dax Anthony Douet, P.E.

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Dax Anthony Douet

License/Certificate Type - Number: PE.0030170
Expiration Date: 09/30/2022
Status: Active

Certificate of Completion

presented to

Dax Douet

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 1, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Dax Douet

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 10, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Dax Douet

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 15, 2019
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Aimee D. Latiolais, P.E.

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Aimee D. Latiolais

License/Certificate Type - Number
PE.0042932

Expiration Date
03/31/2023

Status: Active

Certificate of Completion

presented to

Aimee Latiolais

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 7, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Aimee Latiolais

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 7, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

Certificate of Completion

presented to

Aimee Latiolais

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 8, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Patrick Joseph Landry, P.E., PLS

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Patrick Joseph Landry

License/Certificate Type - Number: PE.0023442
Expiration Date: 09/30/2023
Status: Active

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Patrick Joseph Landry

License/Certificate Type - Number: PLS.0004822
Expiration Date: 09/30/2023
Status: Active

Bradford Habetz Millett, PLS, E.I.

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Bradford Habetz Millett

License/Certificate Type - Number: PLS.0005245
Expiration Date: 03/31/2023
Status: Active

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Bradford Habetz Millett

License/Certificate Type - Number: EI.0032848
Expiration Date: 09/30/2022
Status: Active

Travis Steven Bodin, MBA, PLS, PMP

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Travis Steven Bodin

License/Certificate Type - Number
PLS.0005067

Expiration Date
03/31/2024

Status: Active

Clarke Chauvin, P.E., PTOE, PMP

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Clarke Phillip Chauvin

License/Certificate Type - Number	Expiration Date
PE.0041770	09/30/2023

Status: Active

CERTIFIED PUBLIC SAFETY TECHNICIAN
IMSA

Clarke P. Chauvin
is hereby certified as a

Traffic Signal Field Technician Level II
by completing all requirements and examination for certification
on 9/18/2019

Valid thru 9/18/2022
Certification #BE_125780

Toby Cummings
Toby Cummings, CAE - Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Clarke Phillip Chauvin

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 4337 issued in Washington, DC, USA

11/20/17

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Michael K. Park
Chair

Jeffrey T. Paniati
Executive Director

The American Traffic Safety Services Association

Hereby recognizes that

Clarke Chauvin
has attended
Traffic Control Technician-LA State Specific

Training Course

10/14/2014
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Clarke Chauvin

has attended

Traffic Control Supervisor-LA State Spec

Training Course

10/16/2014
Date

Baton Rouge, LA
Location

Training & Products Dept. Director

President, CEO

ATSSA
SAFER ROADS SAVE LIVES

Certificate of Completion

presented to

Clarke Chauvin

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*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clarke Chauvin

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*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 15, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Jonathan Nicolas Fox

License/Certificate Type - Number
PE.0033277

Expiration Date
09/30/2023

Status: Active

Transportation Professional Certification Board Inc.

certifies that

Jonathan Nicolas Fox

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 2329 issued in Washington, D.C., U.S.A.
November 7, 2007

Steven D. Hofener
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

The American Traffic Safety Services Association

Hereby recognizes that

Jonathan Fox

has attended

Traffic Control Technician-LA State Specific

Training Course

08/07/2014
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Donna M. Clarke
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Jonathan Fox

has attended

Traffic Control Supervisor-LA State Specific

Training Course

08/09/2014
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Donna M. Clarke
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Jonathan Fox

has attended

Traffic Control Design Specialist - 1 day

Training Course

06/22/2015
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Donna M. Clark
Training & Products Dept. Director

Ryan A. Wentz
President, CEO

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: December 10, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 1, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 17, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Diane Hammonds, P.E., PTOE, RSP1

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Diane Callahan Hammonds

License/Certificate Type - Number
PE.0040749

Expiration Date
09/30/2022

Status: Active

Transportation Professional Certification Board, Inc.

certifies that

Diane Callahan Hammonds

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 4118 issued in Washington, DC, USA

12/9/16

Kenneth W. Ackeret
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Diane C. Hammonds

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 798 issued in Washington, DC, USA

3/14/2022

Deborah L. Snyder
Deborah Snyder
Chair

RSP1 ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Diane Hammonds
has attended
Traffic Control Technician-LA State Specific
Training Course

4/28/2020 to 4/28/2020
Date

Baton Rouge, LA
Location

Vice President of Member Services

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Diane Hammonds
has attended
Traffic Control Supervisor-LA State Specific
Training Course

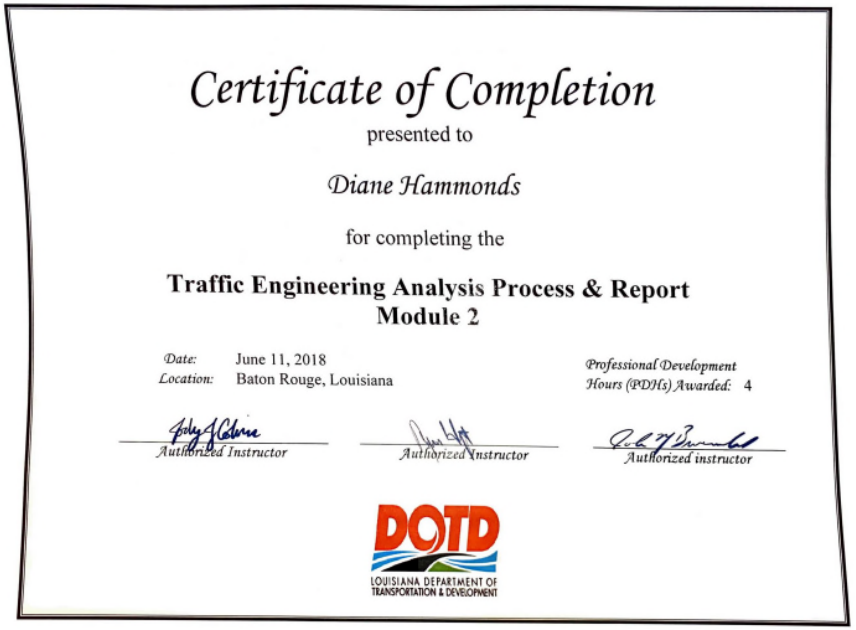
4/29/2020 to 4/30/2020
Date

Location

Vice President of Member Services

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com



Certificate of Completion

presented to

Diane Hammonds

for completing the

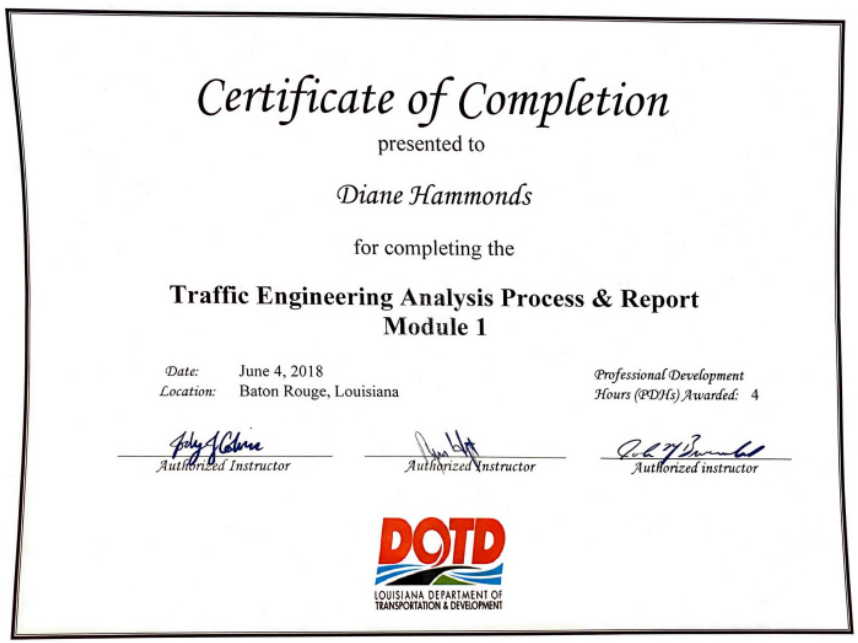
Traffic Engineering Analysis Process & Report
Module 2

Date: June 11, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Diane Hammonds

for completing the

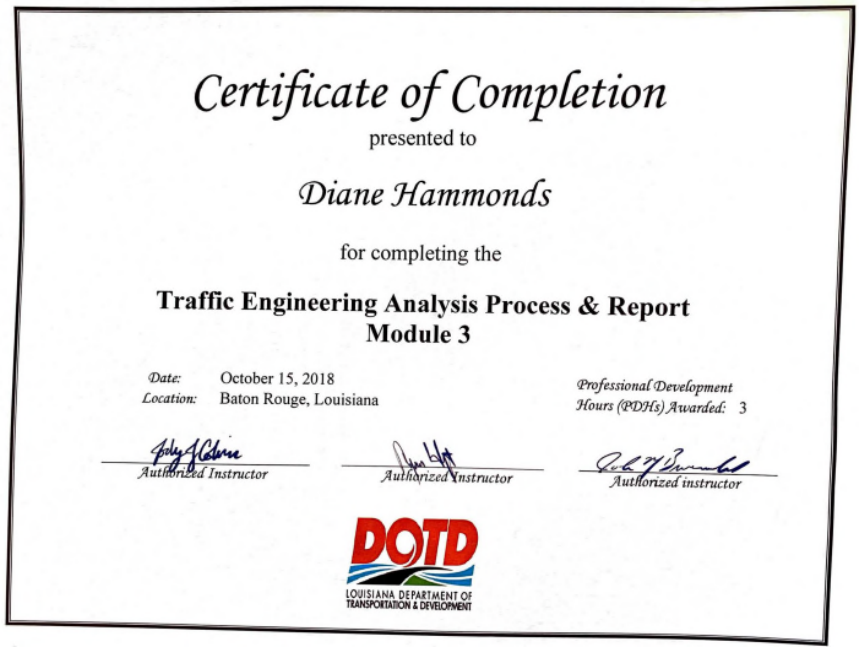
Traffic Engineering Analysis Process & Report
Module 1

Date: June 4, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Diane Hammonds

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 15, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mrs. Kimberly Dawn McDaniel

License/Certificate Type - Number	Expiration Date
PE.0032973	09/30/2023

Status: Active

Transportation Professional Certification Board, Inc.

certifies that

Kimberly McDaniel

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

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 802 issued in Washington, DC, USA
3/14/2022

Deborah Snyder
Chair

PTP
PROFESSIONAL TRANSPORTATION PLANNER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board Inc.

certifies that

Kimberly D. McDaniel

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 2012 issued in Washington, D.C. U.S.A.
October 2, 2007

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

The American Traffic Safety
Services Association

Hereby recognizes that

Kimberly McDaniel

has attended

Traffic Control Supervisor-LA State Specific

Training Course

1/13/16 to 1/14/16
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Kimberly McDaniel

has attended

Traffic Control Technician-LA State Specific

Training Course

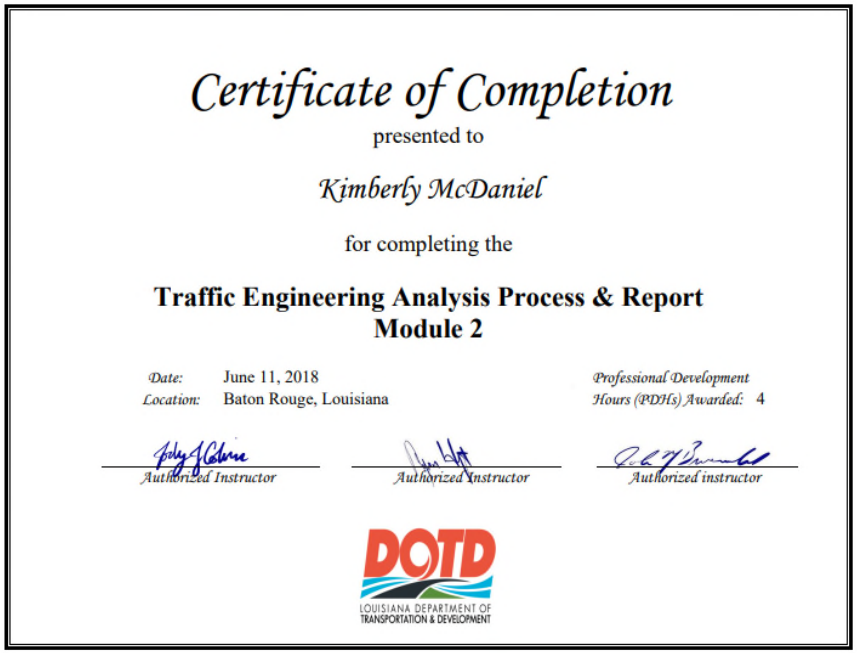
1/12/16 to 1/12/16
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: June 11, 2018
Location: Baton Rouge, Louisiana

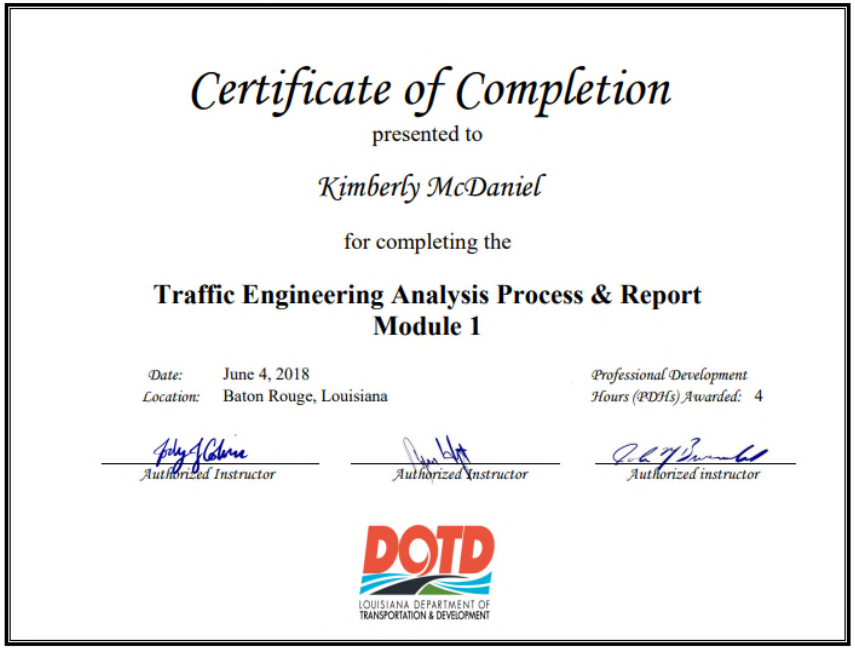
Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: June 4, 2018
Location: Baton Rouge, Louisiana

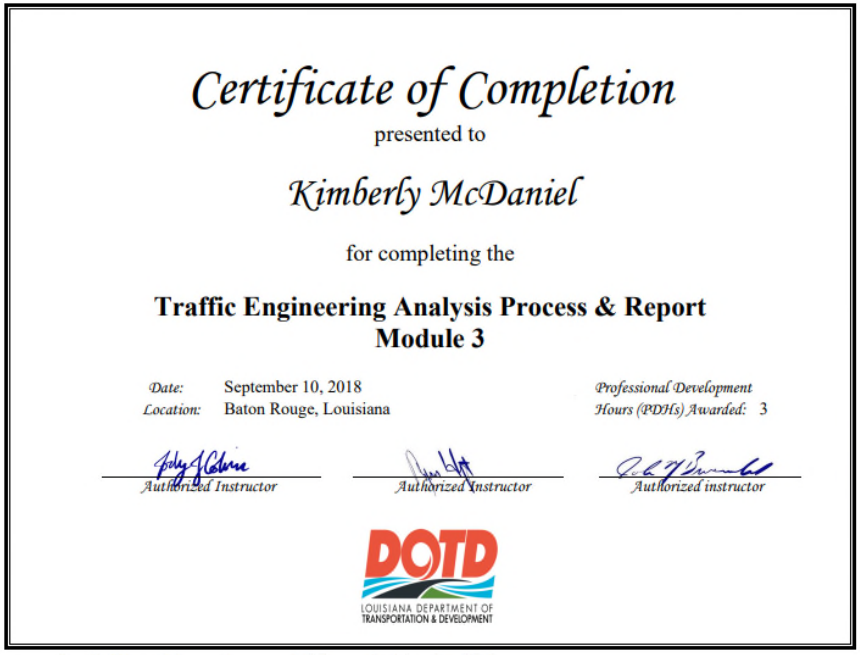
Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: September 10, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Colin James Francis

License/Certificate Type - Number	Expiration Date
EI.0035053	09/30/2022

Status: Active

Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: March 29, 2022
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

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

John Bel Edwards, Governor
Shawn D. Wilson, Ph.D., Secretary

November 4, 2021

Wingate Engineers, LLC.
Attn: Joshua Torregano, PE
1419 Pressburg Street
New Orleans, LA 70122

Dear Joshua Torregano, PE:

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

NC541330- Engineering Services
C09- Civil Engineering

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

You will be required to submit an annual affidavit with all supporting documents (**Business taxes with all attachments, such as 1098, 1099, K-1's and/or W-2's**) stating your firm continues to meet the eligibility requirements of the program. An email informing you to submit the necessary documentation will be forwarded to you approximately six (6) weeks prior to your anniversary date of **October 31, 2022**. However, should you not receive notification from this office for your annual affidavit; it is your responsibility to contact us. Additionally, you must notify our office immediately regarding any changes, which affect the social and economic disadvantage, size, ownership or control of your firm.

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

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

If further assistance is needed, contact the DBE Certification Unit at (225) 379-1382.

Respectfully,

Rhonda Wallace

Rhonda Wallace
DBE/SBE Programs Manager

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

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

Wingate Engineers, LLC.

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC541330

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

Certificate Eligibility: October 2021 to October 2022

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

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

STATE & LOCAL DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

1340 Poydras Street, Suite 1800 | New Orleans, LA 70112

January 25, 2022

VIA EMAIL

Joshua Torregano
Wingate Engineers, LLC dba Wingate Professional Services LLC
1419 Pressburg St.
New Orleans, LA 70122
jtorreg1@gmail.com

RE: SLDBE Re-certification Approval

Dear Joshua Torregano:

We are pleased to inform you that **Wingate Engineers, LLC dba Wingate Professional Services LLC** has been approved for re-certification as a State & Local Disadvantaged Business Enterprise (SLDBE). This approval represents certification with: City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport and Harrah's New Orleans Casino & Hotel.

Your firm's contact information will be active on the online SLDBE Directory (http://www.nola.gov/economic-development/supplier-diversity/directory/). It will reflect your areas of certification. Your specialties will be listed as:

CERTIFICATION DESCRIPTION: ENGINEERING SERVICES (CIVIL ENGINEERING); ENGINEERING CONSULTING; CONSTRUCTION MANAGEMENT; PROJECT MANAGEMENT; CONSTRUCTION INSPECTION SERVICES

NAICS 541330: CIVIL ENGINEERING SERVICES
NAICS 236115: CONSTRUCTION MANAGEMENT, SINGLE-FAMILY BUILDING
NAICS 236118: CONSTRUCTION MANAGEMENT, RESIDENTIAL REMODELING
NAICS 236220: PROJECT MANAGEMENT
NAICS 541330: ENGINEERING CONSULTING SERVICES
NAICS 541350: BUILDING INSPECTION SERVICES

A re-certification notice will be emailed to you prior to the date of expiration. **However, should you not receive notification from this office for your re-certification, it is your responsibility to contact us.** Submittal of this information is necessary to ensure that there is no interruption in your certified status during your certification period. If a re-certification application is not received, we will proceed with decertification procedures.

We invite you to view City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport and Harrah's New Orleans Casino & Hotel websites for SLDBE opportunities.

If we can be of further assistance, you may contact us at 504-658-4275 or via e-mail at saoliva@nola.gov.

Sincerely,

Sonia Oliva

Sonia Oliva
Certification Coordinator
Office of Supplier Diversity | City of New Orleans
1340 Poydras Street | Suite 1800 | New Orleans, LA 70112

LOUISIANA ECONOMIC DEVELOPMENT

DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Wingate Engineers, LLC

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

This certification is valid from 6/28/2022 to 6/28/2023 .

Certification No. 24290

Stephanie Hartman,
Director, Small Business Services

LOUISIANA ECONOMIC DEVELOPMENT

Division of Small and Emerging Business Development

SEBD CERTIFICATION

Wingate Engineers, LLC

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 6/28/2022 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

Issued at Baton Rouge, Louisiana 6/28/2022

This certification expires on: 6/28/2032

Certification No. 24290

Stephanie Hartman,
Director, Small Business Services

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.

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

Firm Name (as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and email address**	**Phone Number**
Intelligent Transportation Systems LLC	20405 Highland Road Baton Rouge, LA 70817	Jonathan Fox, P.E., PTOE, PMP jfox@itsanswers.com	(225) 7581-9300
Wingate Engineers, LLC	2135 Bienville Street New Orleans, LA 70112	Joshua Torregano, P.E. josh@wingateengineers.com	(504) 813-3479

(Add rows as needed)

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

C. H. Fenstermaker & Associates, L.L.C.