Louisiana Department of Transportation and Development

Original

IDIQ CONTRACTS FOR ELECTRICAL SERVICES STATEWIDE

Contract Nos. 4400026073 and 4400026074

Request for Qualifications

May 25, 2023

MODJESKI and MASTERS

AILLET, FENNER, JOLLY, & McCLELLAND INC.

LAZENBY & ASSOCIATES, INC.

C&C INCORPORATED

VECTURA CONSULTING SERVICES, LLC

DOTD FORM: 24-102

(Revised January 1, 2023)

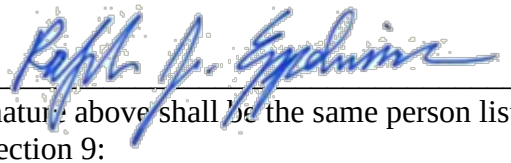
PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ Contracts for Electrical Services - Statewide
2. Contract Number(s) as shown in the advertisement	4400026073 and 4400026074
3. State Project Number(s), if shown in the advertisement	
4. Prime consultant name **(name must match as registered with the Louisiana Secretary of State where such registration is required by law**)	Modjeski and Masters, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0000570
6. Prime consultant mailing address	1100 Poydras Street, Suite 900, New Orleans, LA 70163
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1100 Poydras Street, Suite 900, New Orleans, LA 70163
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Cullen J. Ledet, PE Senior Project Manager 504-524-4344 CJLedet@modjeski.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Ralph J. Eppehimer, PE Senior Vice President 504-524-4344 RJEppehimer@modjeski.com

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

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 Signature above shall be the same person listed in Section 9: May 25, 2023 Date

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):	Firm(s)' %:
	Civil Design & Construction, Inc	5%
	Vectura Consulting Services, LLC	5%

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

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

The **only** past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Past Performance Evaluation Discipline(s)	% of Overall Contract	Modjeski and Masters, Inc.	Aillet, Fenner, Jolly, McClelland, Inc.	Lazenby & Associates, Inc.	Civil Design & Construction	Vectura Consulting Services	Each Discipline must total to 100%
Other (Bridge Design Roadway Lighting)	75%	90%	10%				**100%**
Bridge	10%	20%	80%				**100%**
Survey	10%			50%	50%		**100%**
Traffic	5%					100%	**100%**
Identify the percentage of work for the **<u>overall contract</u>** to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	**100%**	**69.5%**	**15.5%**	**5%**	**5%**	**5%**	

13. Firm Size:

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

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

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

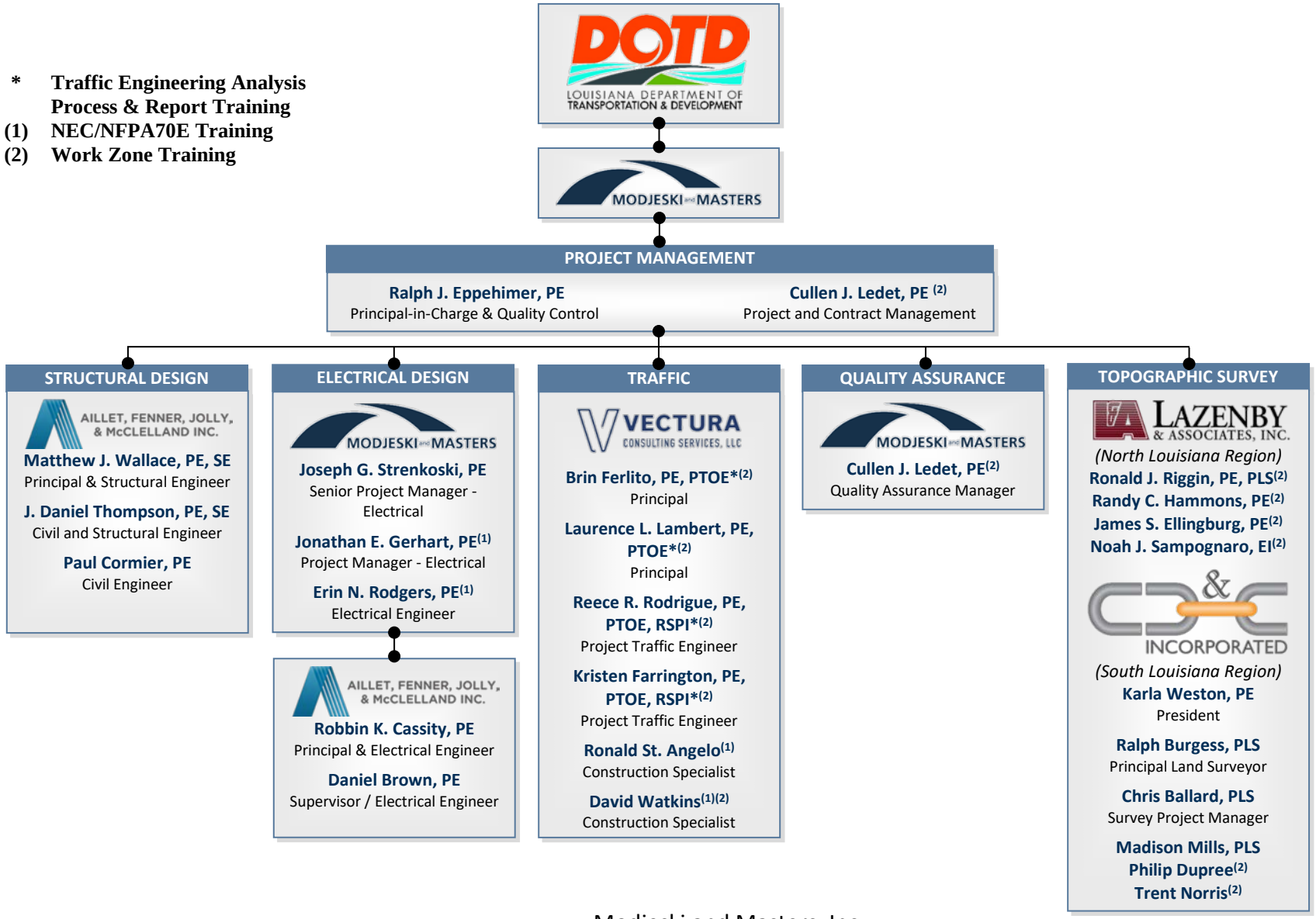
Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
MODJESKI and MASTERS	Principal	1	7
	Supervisor Engineer	3	15
	Supervisor - Other	0	11
	Engineer	1	6
	Engineer - Other	1	21
	Engineer Intern	2	19
	Technician	0	2
	Senior Technician	0	3
	CADD Technician	2	9
	Professional	1	1
AILLET, FENNER, JOLLY, & McCLELLAND INC.	Accountant	0	1
	Cadd-Operator	3	4
	Clerical	1	2
	Designer	0	1
	Engineer	1	5
	Engineer Intern	0	1
	Professional	0	2
	Principal	2	3
	Supervisor-Engineer	2	4
	Surveyor	0	1

LAZENBY & ASSOCIATES, INC.	CADD Drafter	0	3
	CADD - Operator	1	1
	Clerical	0	3
	Engineer	1	6
	Engineer Intern	1	1
	Instrument Man	2	2
	Party Chief	2	2
	Principal	1	1
	Rodman	2	2
	Supervisor Engineer	0	3
	Surveyor	1	1
	Inspector - Certified	0	2
	Inspector	0	1
C&C INCORPORATED	Surveyor	1	3
	Party Chief	3	5
	Instrument Man	2	3
	Rodman	1	2
	CADD Operator	1	1
	Senior Technician	2	5
	Supervisor - SUE	1	1
VECTURA CONSULTING SERVICES, LLC	Supervisor	2	2
	Engineer	2	4
	Engineer Intern	0	1
	Inspector	2	2

(Add rows as needed)

14. Organizational Chart:

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

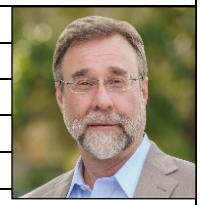


15. Minimum Personnel Requirements:

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

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Ralph J. Eppehimer, PE	Modjeski and Masters, Inc.	PE #23251 – Civil	LA	3/31/2025
2	Jonathan E. Gerhart, PE	Modjeski and Masters, Inc.	PE #43052 – Electrical	LA	3/31/2025
3	Jonathan E. Gerhart, PE	Modjeski and Masters, Inc.	PE #43052 – Electrical	LA	3/31/2025
4a	Jonathan E. Gerhart, PE	Modjeski and Masters, Inc.	PE #43052 – Electrical	LA	3/31/2025
	Robbin Cassity, PE	Aillet, Fenner, Jolly & McClelland, Inc.	PE #26059 – Electrical	LA	3/31/2024
4b	Joseph G. Strenkoski, PE	Modjeski and Masters, Inc.	PE #38336 – Electrical	LA	3/31/2024
	Daniel Brown, PE	Aillet, Fenner, Jolly & McClelland, Inc.	PE #41687 – Electrical	LA	9/30/2023
5	Cullen J. Ledet, PE	Modjeski and Masters, Inc.	PE #33222 – Civil	LA	9/30/2023
6	Matthew J. Wallace, PE, SE Paul Cormier, PE J. Daniel Thompson, PE, SE	Aillet, Fenner, Jolly & McClelland, Inc.	PE #25922 – Structural PE #27019 – Civil PE #35628 – Structural	LA LA LA	9/30/2023 3/31/2025 9/30/2024
7	Erin N. Rodgers, PE	Modjeski and Masters, Inc.	NEC / NFPA 70E		
	Ronald St. Angelo David Watkins	Vectura Consulting Services, LLC	NEC / NFPA 70E NEC / NFPA 70E		
8	Ralph D. Burgess, PLS Chris L. Ballard, PLS	Civil Design & Construction, Inc.	PLS #5040 PLS #5033	LA LA	9/30/2024 9/30/2024
	Ronald J. Riggin, PE, PLS	Lazenby & Associates, Inc.	PLS #5119	LA	3/31/2025

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**					
Name	**Ralph J. Eppehimer, PE**		Years of relevant experience with this employer	40	
Title	Principal & Director of Field Services		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			BS 1982 Civil Engineering		
Active registration number / state / expiration date			23251 LA 03/31/2025		
Year registered	1989	Discipline	Civil		
Contract role(s) / brief description of responsibilities:					

Mr. Eppehimer has over 40 years of field services experience with Modjeski and Masters, Inc. and is the Director of Field Services. He has vast experience in all aspects of field services including new bridge construction, safety and maintenance inspections of existing bridges, repair and rehabilitation of bridges, and emergency response to bridge accidents. He has been the construction project manager, resident engineer, assistant resident engineer and technical advisor on a number of significant movable bridge projects, primarily railroad bridges. Mr. Eppehimer's technical specialties are the field inspection of all types of bridge, field monitoring of movable bridge construction, repair and rehabilitation of bridges, and the repair and retrofit of movable bridges. Mr. Eppehimer fulfills the minimum personnel requirements for MPR #1 and will serve as Principal-in-Charge for this project.

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).
12/15 – 03/20	**UPRR 305.45 Angelton Sub San Bernard Bridge. Sweeney, TX** | Union Pacific Railroad (2016-2018) M&M provided the design for a new vertical lift bridge that will replace an existing swing span bridge over the San Bernard River in the Angleton Subdivision of the Union Pacific Railroad. M&M worked with the UPRR to accommodate an accelerated construction schedule, and provided construction support for the project. The new bridge was designed to be "remote control ready." Mr. Eppehimer served as the Principal-in-Charge for this project.
02/12 - 02/23	**2007-062-RB Lapalco Bridge Repairs, Jefferson Parish, LA** This project involved the rehabilitation, repairs (structural, mechanical, electrical and architectural), and repainting of this four-lane, bascule highway bridge. Modjeski and Masters provided the development of plans and specifications and construction services. Mr. Eppehimer was the Project Manager for all the construction engineering support services associated with this project.
11/16– 5/17	**Port of New Orleans Seabrook Bridge Floor System Replacement. New Orleans, LA** Modjeski and Masters prepared the plans and specifications to replace the railroad floor system between the trusses of the Seabrook Railroad Bridge for the Port of New Orleans. M&M also developed the sequence of construction to minimize the impacts to the rail and marine traffic as well as maintain the span balance throughout construction. Mr. Eppehimer was Principal-in-Charge for this project.
02/17– 5/17	**Port of New Orleans Seabrook Bridge Link Pin Joints Emergency - Construction Services. New Orleans, LA**: After M&M completed the initial investigation and developed emergency repair contract documents for the partially failed 2nd Link joint on the Seabrook Strauss Bascule Bridge, the Port of New Orleans called upon M&M to provide Construction Support Services for the project. M&M reviewed all Contractor RFIs, shop drawings, and procedure submittals for the project. M&M also provided on-site construction inspection services throughout the repair effort. Mr. Eppehimer was Principal-in-Charge for this project.
03/09-01/10	**Bridge 73.31 across Bayou Boeuf, BNSF Railway, Amelia, LA** Mr. Eppehimer served as the Construction Project Manager for M&M, overseeing the replacement of an older, single- track railroad, through-plate girder swing span with a new through-plate girder swing span. He made monthly project site visits during construction,

	including during the span change-out period. He also provided construction engineering office support and supervised the full-time, on-site Resident Inspector on the project.
02/07-07/07	**Vertical Lift Span Relocation, Union Pacific Railroad, Houma, LA to Freeport, TX** Mr. Eppehimer served as the Construction Project Manager overseeing the disassembly and relocation of an existing, single- track railroad vertical lift span from Houma, LA to Freeport, TX where it was rebuilt with modifications to replace an older through-truss swing. He made monthly visits during construction to either project site, as appropriate, including during the span change-out period in Texas. He also provided construction engineering office support and supervised the full-time, on-site Resident Inspector.
01/01-05/09	**Florida Avenue Bridge Replacement, Port of New Orleans, New Orleans, LA** Mr. Eppehimer served as the Construction Project Manager for M&M, overseeing the replacement of an older bascule span carrying a double-track and two vehicular roadway lanes with a new vertical lift span carrying a single-track and two vehicular roadway lanes, to improve the width of the navigation channel. He made periodic fabrication shop visits, including to South Korea, and monthly project site visits during construction, including during the span change-out period. He also provided construction engineering office support and supervised the on-site Resident Engineer and inspection team.
12/06–07/07	**Pointe-A-La-Hache Ferry Landing Rehabilitation. Plaquemines Parish, LA | LADOTD** The proposed overall project consisted of performing a rehabilitation of the Pointe-A-La-Hache East Bank and West Bank Ferry Landings for the ferry crossing the Mississippi River. Preliminary plans were prepared in accordance with the requirements of the DOTD Roadway Plan Preparation Manual, Bridge Design Manual, Off-System Bridge Rehabilitation and Replacement Program Guidelines and Hydraulics Manual. Specifications were in accordance with latest edition of the Louisiana Standards Specifications for the Road and Bridges. As a sub-consultant, Modjeski and Masters developed preliminary plans for the electrical and mechanical layout drawings and associated electrical and mechanical general notes. This work basically covered the design of the approach lifting mechanism and electrical power requirements for the lifting equipment and approach bridge lighting. Mr. Eppehimer provided constructability oversight for this project.
09/05 – 10/06	**LADOTD-CCCD Ferry Facilities Repairs. New Orleans, LA | LADOTD** Hurricane Katrina struck the Greater New Orleans area causing significant damage to LADOTD-CCCD facilities. Modjeski and Masters swiftly responded to establish communications with LADOTD personnel and quickly received assignments for emergency response to fixed and floating assets as related to the LADOTD-CCCD ferry facilities. M&M provided inspection, reporting, repair detailing and monitoring of construction repairs of damages caused by Hurricane Katrina to ferry facility buildings, pedestrian access bridges, vehicle roadway bridges and moorings. The facilities included: Canal Street, Algiers, Jackson Avenue, Greta, Lower Algiers and Maintenance Landing. Mr. Eppehimer served as the Project Manager for this project.
1996-1997	**Casco Bay Bridge Replacement, Maine DOT, Portland, ME** The project called for the replacement of a double-leaf bascule bridge over the Fore River with a structure consisting of a 285 ft. double-leaf bascule span. Mr. Eppehimer served as a Technical Advisor to the Maine DOT during construction of the bascule spans. This assignment included making structural and machinery shop visits to observe fabrication and shop assemblies and tests, and providing a full-time presence, on-site, during the movable span and machinery erection period.

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**					
Name	**Jonathan E. Gerhart, PE**		Years of relevant experience with this employer	13	
Title	Project Manager – Electrical Design		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization			BS 1998 Electrical Engineering		
Active registration number / state / expiration date			43052 LA 03/31/2025		
Year registered	2016	Discipline	Electrical		

Contract role(s) / brief description of responsibilities

Mr. Gerhart is a Project Manager in Modjeski and Masters' Electrical Engineering Section and has over 25 years of experience in the design of electrical distribution systems, control systems and safety systems, including roadway lighting systems. Having over 10 years of experience on LADOTD Roadway Lighting Projects, Mr. Gerhart is experienced with photometric analysis and roadway lighting design (both HPS and LED), including inspections, construction support, and troubleshooting. He has vast expertise in all matters related to lighting systems having served as Lead Design Engineer for numerous LADOTD roadway lighting projects and has developed evaluations, recommendations, cost estimations, value engineering and consultations with LADOTD electrical staff. Mr. Gerhart will serve as a Project Manager and Responsible Member for this contract and fulfills MPR #2, #3 and #4a.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/19 – On-going	**H.011137.5 Lighting Engineering Design Services for I-12: LA 1077 to US 190. Covington, LA | LADOTD** As part of an overall interstate widening project, M&M provided an investigation for a future roadway lighting system along I-12 in St. Tammany Parish. M&M provided an illumination analysis per LADOTD standards for a complete lighting design at the I-12 at LA 1077, I-12 at LA 21, I-12 at Pinnacle Pkwy, and I-12 at US 190 interchanges. M&M provided plans and specifications for lighting and electrical equipment to accommodate installation of a future lighting system as well as plans and specifications for a new navigation lighting design on the widened Tchefuncte River Bridge. M&M is currently providing construction related engineering services for this project. Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performs field inspections during construction and works directly with LADOTD electrical engineers.
01/17 – On-going	**H.003184: I-10: Texas State Line – E. of Coone Gully Lighting, Calcasieu Parish, LA | LADOTD** M&M performed a study of the existing roadway lighting system of Interstate 10 (I-10) in Calcasieu Parish at five locations for the LADOTD as part of S.P. H.003184 which calls for a portion of I-10 from the Texas state line through to the East of Coone Gully to be widened from four to six lanes of travel. The scope of the work and inquiry consisted of an illumination and roadway lighting construction feasibility study at the five specified locations. The as-designed roadway lighting systems were evaluated and compared to the proposed widened geometry to determine if the existing systems would remain in compliance with LADOTD Illumination standards. Where needed, modifications were recommended to satisfy required illumination and electrical criteria. Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performs field inspections during construction and works directly with LADOTD electrical engineers.
07/18 - 06/21	**H.012739: I-20 @ Vicksburg - Electrical, Vicksburg, MS | LADOTD** M&M provided electrical engineering services to develop final plans and specifications for rehabilitation of the existing electrical systems, including photometric report and replacement of roadway lighting with an LED design, replacement of navigation lighting and aerial beacons, and rehabilitation and relocation of low-voltage electrical components including monitoring equipment including monitoring equipment, MDOT equipment, river current monitoring equipment. M&M also provided construction related engineering services, including field inspections and shop drawing, as-built drawing and submittal review.Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performed field inspections during construction and worked directly with LADOTD electrical engineers.

09/16 – 06/19	**H.012503: I-12 @ LA 447 (Walker) Interchange Lighting, Walker, LA | LADOTD** The project involved the design of roadway lighting at the I-12/LA 447 Interchange in Walker, LA. The design included providing lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M performed photometric analysis, and provided plans & construction estimates and construction related engineering services including shop drawing review and field inspections. Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performed field inspections during construction and worked directly with LADOTD electrical engineers.
09/15 – 07/16	**H.003003: I-10: E. Jct. I-49 to LA 328 Lighting, Lafayette and St. Martin Parishes LA | LADOTD** The project involved the design of roadway lighting on Interstate 10 from I-49 to LA328 in Lafayette, LA. The design included the use of high-mast and low-mast poles as well as underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related engineer services including shop drawing review and field inspections. Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performs field inspections during construction and works directly with LADOTD electrical engineers.
10/15 – 09/20	**H.003014: I-10: LA 347 to Atchafalaya Floodway Bridge Lighting, St. Martin Parish LA | LADOTD** The project involved the design of roadway lighting for Interstate 10 from LA347 to Atchafalaya Floodway Bridge in Lafayette, LA. The design included providing low-mast lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related engineering services including shop drawing review and field inspections. Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performs field inspections during construction and works directly with LADOTD electrical engineers.
12/13 - 05/17	**H.010863: I-10 @ Ambassador Caffery Parkway Interchange Lighting, Lafayette, LA | LADOTD** The project involved the design of roadway lighting for the Ambassador Caffery Parkway (LA 3184) Interchange along Route I-10 in Lafayette, LA. The design included the use of high-mast and low-mast poles as well as underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections, including final punch-list inspection. Mr. Gerhart oversaw the photometric analysis, electrical calculations and final plan development for the design portion of this project. He also performed field inspections during construction and worked directly with LADOTD electrical engineers.
06/12 - 10/17	**H.009201: I-20 @ Garrett Road Interchange Lighting, Monroe, LA | LADOTD** The project involved the design of roadway lighting for the Garrett Road Interchange along Route I-20 in Monroe, LA. The design included the use of low-mast poles and underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections. Mr. Gerhart served as Lead Electrical Design Engineer and Field Inspector for this project.
11/10 - 05/15	**H.002691: LA8/US 171 Roundabout. Vernon Parish, LA | LADOTD** The project involved the design of roadway lighting for a two-lane, four-legged modern roundabout that was reconstructed from a signalized T-intersection of US-171 with LA 8/28. The design incorporated the use of decorative light fixtures and poles and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections, including final punch-list inspection. Mr. Gerhart served as Lead Electrical Design Engineer and Inspector for this project.

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc**.					
Name	**Cullen J. Ledet, III, P.E.**		Years of relevant experience with this employer	21	
Title	Senior Project Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS 2000 Civil Engineering		
Active registration number / state / expiration date			33222 LA 09/30/2023		
Year registered	2007	Discipline	Civil		

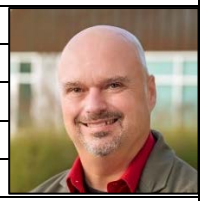
Contract role(s) / brief description of responsibilities

Mr. Ledet is a Senior Associate in Modjeski and Masters' New Orleans Office and has over 18 years of experience in the design of fixed and movable highway and railroad bridges. He also has provided quality assurance for all disciplines represented in the plans and specifications for numerous LADOTD Roadway Lighting Projects. He has consulted with personnel at DOTD Headquarters (Electrical Design) and various District offices to ensure the proposed lighting design meets the local needs while adhering to DOTD Illumination Standards. Mr. Ledet is very familiar with the DOTD Electronic Deliverable requirements and ensures that the firm remains up-to-date with current Consultant Workflow procedures. Mr. Ledet also led the development of Transportation Management Plans (including Level 4) for various DOTD projects and he is currently compliant with work zone training (TCT/TCS/Flagger). Mr. Ledet will serve as the Project Manager and Quality Assurance Manager for all engineering disciplines on all task orders and fulfills MPR #5.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
1/2017 – On-going	**H.003184: I-10: Texas State Line – E. of Coone Gully Lighting, Calcasieu Parish, LA | LADOTD** M&M performed a study of the existing roadway lighting system of Interstate 10 (I-10) in Calcasieu Parish at five locations for the LADOTD as part of S.P. H.003184 which calls for a portion of I-10 from the Texas state line through to the East of Coone Gully to be widened from four to six lanes of travel. The scope of the work and inquiry consisted of an illumination and roadway lighting construction feasibility study at the five specified locations. The as-designed roadway lighting systems were evaluated and compared to the proposed widened geometry to determine if the existing systems would remain in compliance with LADOTD Illumination standards. Where needed, modifications were recommended to satisfy required illumination and electrical criteria. Mr. Ledet provided contract management and provided quality assurance for all engineering disciplines as part of this project.
09/16 – 09/19	**H.012503: I-12 @ LA 447 (Walker) Interchange Lighting, Walker, LA | LADOTD** The project involved the design of roadway lighting at the I-12/LA 447 Interchange in Walker, LA. The design included providing lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related services including shop drawing review and field inspections. Mr. Ledet provided contract management and quality assurance for all engineering disciplines as part of this project. He also provided construction related support by reviewing the structural components of the installed light poles including anchor bolts, base plates and drilled shafts.
09/15 – 07/21	**H.003003: I-10: E. Jct. I-49 to LA 328 Lighting, Lafayette and St. Martin Parishes LA | LADOTD** The project involved the design of roadway lighting on Interstate 10 from I-49 to LA328 in Lafayette, LA. The design included the use of high-mast and low-mast poles as well as underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related engineer services including shop drawing review and field inspections. Mr. Ledet provides

	contract management and quality assurance for all engineering disciplines as part of this project. He also provided construction related support by reviewing the structural components of the installed light poles including anchor bolts, base plates and drilled shafts.
10/15 – 11/22	**H.003014: I-10: LA 347 to Atchafalaya Floodway Bridge Lighting, St. Martin Parish LA | LADOTD** The project involved the design of roadway lighting for Interstate 10 from LA347 to Atchafalaya Floodway Bridge in Lafayette, LA. The design included providing low-mast lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related engineering services including shop drawing review and field inspections. Mr. Ledet provides contract management and quality assurance for all engineering disciplines as part of this project. He also provided construction related support by reviewing the structural components of the installed light poles including anchor bolts, base plates and drilled shafts.
12/13 - 05/17	**H.010863: I-10 @ Ambassador Caffery Parkway Interchange Lighting, Lafayette, LA | LADOTD** The project involved the design of roadway lighting for the Ambassador Caffery Parkway (LA 3184) Interchange along Route I-10 in Lafayette, LA. The design included the use of high-mast and low-mast poles as well as underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections. Mr. Ledet provided quality assurance for all engineering disciplines and oversaw plan development for this project. He also provided construction related support by reviewing the structural components of the installed light poles including anchor bolts, base plates and drilled shafts.
06/12 - 10/17	**H.009201: I-20 @ Garrett Road Interchange Lighting, Monroe, LA | LADOTD** The project involved the design of roadway lighting for the Garrett Road Interchange along Route I-20 in Monroe, LA. The design included the use of low-mast poles and underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections. Mr. Ledet provided quality assurance for all engineering disciplines and oversaw plan development for this project. He also provided construction related support by reviewing the structural components of the installed light poles including anchor bolts, base plates and drilled shafts.
10/10 - 04/15	**H.000336: LA 431 Lighting Improvements. Ascension Parish, LA | LADOTD** The project involved the design of roadway lighting for four intersections along Route LA 431 as part of an overall improvement project. The design was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M performed a photometric analysis of the intersections and provided plan development of lighting plans and specifications conforming to the LADOTD Illumination Standards and National Electrical Code. M&M also provided construction related engineering services during construction. Mr. Ledet provided quality assurance for all engineering disciplines and oversaw plan development for this project.
11/10 – 05/15	**H.002691: LA8/US 171 Roundabout. Vernon Parish, LA | LADOTD** The project involved the design of roadway lighting for a two-lane, four-legged modern roundabout that was reconstructed from a signalized T-intersection of US-171 with LA 8/28. The design incorporated the use of decorative light fixtures and poles and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections. Mr. Ledet provided quality assurance and oversaw plan development for this project.

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**					
Name	**Joseph G. Strenkoski, PE**		Years of relevant experience with this employer	10	
Title	Project Manager – Electrical Design		Years of relevant experience with other employer(s)	24	
Degree(s) / Years / Specialization			BS 1988 Electrical Engineering		
Active registration number / state / expiration date			38336 LA 03/31/2024		
Year registered	2013	Discipline	Electrical		
Contract role(s) / brief description of responsibilities			Mr. Strenkoski has been employed by the Modjeski and Masters, Inc. since 2013. He has more than 31 years of experience in the electrical engineering consulting field including over a decade of project management work and almost two decades of electrical group management. Mr. Strenkoski has multi-discipline and multi-project management exposure including in-house coordination of civil, structural, and mechanical/electrical efforts, as well as relating with clients and consultants. Mr. Strenkoski has served as Project Manager for numerous LADOTD Roadway Lighting Design Projects. He fulfills MPR 4b.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/19 – On-going	**H.011137.5 Lighting Engineering Design Services for I-12: LA 1077 to US 190. Covington, LA | LADOTD** As part of an overall interstate widening project, M&M provided an investigation for a future roadway lighting system along I-12 in St. Tammany Parish. M&M provided an illumination analysis per LADOTD standards for a complete lighting design at the I-12 at LA 1077, I-12 at LA 21, I-12 at Pinnacle Pkwy, and I-12 at US 190 interchanges. M&M provided plans and specifications for lighting and electrical equipment to accommodate installation of a future lighting system as well as plans and specifications for a new navigation lighting design on the widened Tchefuncte River Bridge. M&M is currently providing construction related engineering services for this project. Mr. Strenkoski serves as the Project Manager for this project.
01/17 – On-going	**H.003184: I-10: Texas State Line – E. of Coone Gully Lighting, Calcasieu Parish, LA | LADOTD** M&M performed a study of the existing roadway lighting system of Interstate 10 (I-10) in Calcasieu Parish at five locations for the LADOTD as part of S.P. H.003184 which calls for a portion of I-10 from the Texas state line through to the East of Coone Gully to be widened from four to six lanes of travel. The scope of the work and inquiry consisted of an illumination and roadway lighting construction feasibility study at the five specified locations. The as-designed roadway lighting systems were evaluated and compared to the proposed widened geometry to determine if the existing systems would remain in compliance with LADOTD Illumination standards. Where needed, modifications were recommended to satisfy required illumination and electrical criteria. Mr. Strenkoski served as Project Manager for this project.
09/16 – 09/19	**H.012503: I-12 @ LA 447 (Walker) Interchange Lighting, Walker, LA | LADOTD** The project involved the design of roadway lighting at the I-12/LA 447 Interchange in Walker, LA. The design included providing lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related services including shop drawing review and field inspections. Mr. Strenkoski served as Project Manager for this project

09/15 – 07/16	**H.003003: I-10: E. Jct. I-49 to LA 328 Lighting, Lafayette and St. Martin Parishes LA | LADOTD** The project involved the design of roadway lighting on Interstate 10 from I-49 to LA328 in Lafayette, LA. The design included the use of high-mast and low-mast poles as well as underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related engineer services including shop drawing review and field inspections. Mr. Strenkoski serves as Project Manager for this project.
10/15 - 07/16	**H.003014: I-10: LA 347 to Atchafalaya Floodway Bridge Lighting, St. Martin Parish LA | LADOTD** The project involved the design of roadway lighting for Interstate 10 from LA347 to Atchafalaya Floodway Bridge in Lafayette, LA. The design included providing low-mast lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and is currently providing construction related engineering services including shop drawing review and field inspections. Mr. Strenkoski serves as Project Manager for this project.
08/13 – 04/17	**Route 79/Braga Bridge Improvements, Fall River, MA | MassDOT** Route 79/Braga Bridge Improvements Project - This design-build project included the design of roadway LED lighting and architectural landscape and decorative LED lighting for major improvements to the Fall River Route 79 and Braga Bridge interchanges. Design involved detailed lighting with photometric calculations, voltage drop calculations, wire and conduit sizing for lighting circuits. The design also involved power distribution and lighting control design to meet MassDOT standards. Mr. Strenkoski served as the Project Electrical/Lighting Design Engineer.

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**					
Name	**Erin N. Rodgers, PE**		Years of relevant experience with this employer	6	
Title	Engineer - Electrical		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS 2017 Mechanical and Electrical Concentrations		
Active registration number / state / expiration date			093241 PA 09/30/2023		
Year registered	2022	Discipline	Electrical		

Contract role(s) / brief description of responsibilities

Ms. Rodgers joined Modjeski and Masters, Inc. as an engineer in training in 2017 following her graduation from Elizabethtown College with a Bachelor of Science in Engineering. Ms. Rodgers serves as an Electrical Engineer E3 for the Electrical section and has been involved in design and inspection of several movable bridges and lighting systems during her time with the firm. She also has experience with roadway lighting design, tunnel lighting design and utility coordination projects. Ms. Rodgers is NEC/NFPA certified and fulfills MPR #7 for this project.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/22 - Ongoing	**H.014646.5 I-20: US 165 to East of Garrett Road Lighting. Monroe, LA | LADOTD** M&M provided plans, technical specifications, special provisions and illumination analysis for the rehabilitation of the existing lighting system along I-20 from US 165 to E. of Garrett Road. M&M coordinated with the City of Monroe and interfaced with the Project Team for S.P. H.007300 on the selection of LED luminaires to provide consistent lighting throughout the project limits. She completed a photometric analysis using Visual lighting software to achieve optimal lighting illumination levels and uniformity while minimizing pole quantity and related costs.
12/20 – Ongoing & 01/18 – 01/19	**H.012889.5: I-20 Rehabilitation (Pines Road to I-220). Shreveport, LA | LADOTD** As part of an overall interstate improvement project, M&M was selected to develop roadway lighting plans to accommodate future interstate median lighting and to relocate any existing light poles in conflict with reconfigured on and off ramps. Ms. Rodgers is worked under the direction of a senior engineer to design a preliminary roadway lighting system for the I-20 widening project. She also participated in a site inspection to identify all existing electrical components in service. She performed a photometric analysis using Visual lighting software to achieve optimal lighting illumination levels and uniformity while minimizing pole quantity and related costs. She used the final approved photometric analysis report to generate final plans and specifications.
12/19 – Ongoing	**H.011137.5 Lighting Engineering Design Services for I-12: LA 1077 to US 190. Covington, LA | LADOTD** As part of an overall interstate widening project, M&M provided an investigation for a future roadway lighting system along I-12 in St. Tammany Parish. M&M provided an illumination analysis per LADOTD standards for a complete lighting design at the I-12 at LA 1077, I-12 at LA 21, I-12 at Pinnacle Pkwy, and I-12 at US 190 interchanges. M&M provided plans and specifications for lighting and electrical equipment to accommodate installation of a future lighting system as well as plans and specifications for a new navigation lighting design on the widened Tchefuncte River Bridge. M&M is currently providing construction related engineering services for this project. Ms. Rodgers performed photometric analysis and assisted in final electrical plan development. She also participated in field inspections and reporting for the construction of this project.

10/17 – 12/21	**H.003003.6: I-10: I-49 to LA 328 Lighting Construction Related Engineering Services. Lafayette, LA | LADOTD** M&M was selected to prepare final plans, specifications, photometric calculations and a construction cost estimate for the I-10 at I-49 to LA 328 Interchange Lighting. M&M will be working closely with local government agencies and utility companies to provide an optimum, low-maintenance lighting system. Ms. Rodgers worked under the direction of a senior engineer to review submittals for the roadway lighting design for the I-10 widening project in Louisiana. Her responsibilities included verifying contractor submissions met design intent and coordinating all equipment to be used on the project with the contractor. She also participated in field inspections and reporting for the construction of this project.
10/17 – 09/20	**H.003014.6: I-10: LA 347 to Atchafalaya Floodway Bridge Lighting Construction Related Engineering Services. New Orleans, LA | LADOTD** M&M was selected to prepare final plans, specifications, photometric calculations and a construction cost estimate for the I-10 @ LA 347 Interchange which consists of two roundabouts. M&M worked closely with local government agencies and utility companies to provide an optimum, low-maintenance lighting system. Ms. Rodgers worked under the direction of a senior engineer to review submittals for the roadway lighting design for the I-12 widening project in Louisiana. Her responsibilities included verifying contractor submissions met design intent and coordinating all equipment to be used on the project with the contractor. She also participated in field inspections and reporting for the construction of this project.
01/18 – 05/19	**H.003184.5-2: I-10: Texas State Line to East of Coone Gully Lighting Design Related Engineering Services. Calcasieu Parish, LA | LADOTD** Ms. Rodgers worked under the direction of a senior engineer to design a roadway lighting system for I-10 widening project near Coone Gully, Louisiana. She completed a photometric analysis using Visual lighting software to achieve optimal lighting illumination levels and uniformity while minimizing pole quantity and related costs. Ms. Rodgers also worked to develop complete lighting plans for the project including plan layouts, pole schematics, and equipment detailing. She also participated in field inspections and reporting for the construction of this project.
07/18 – 07/19	**H.011235.5: I-49 South at Verot School Road – Lafayette, LA | LADOTD** Ms. Rodgers worked under the direction of a senior engineer to design a preliminary roadway lighting system for the new interchange to be built at the intersection of I-49 and Verot School Rd near Lafayette, Louisiana. She completed a photometric analysis using Visual lighting software to achieve optimal lighting illumination levels and uniformity while minimizing pole quantity and related costs.
10/17 – 04/19	**H.012503: I-12 LA 447 (Walker) Lighting Interchange. Walker, LA | LADOTD** M&M was selected to prepare final plans, specifications, photometric calculations and a construction cost estimate for the I-12 at LA 447 Interchange which includes two roundabouts. M&M worked closely with local government agencies and utility companies to provide an optimum, low-maintenance lighting system. Ms. Rodgers worked under the direction of a senior engineer to review submittals for the roadway lighting design for the I-12 widening project in Louisiana. Her responsibilities included verifying contractor submissions met design intent and coordinating all equipment to be used on the project with the contractor. She also participated in field inspections and reporting for the construction of this project.

16. Staff Experience:

Firm employed by: **Aillet, Fenner, Jolly & McClelland, Inc.**				
Name	**Robbin K. Cassity, PE, LEED AP**		Years of relevant experience with this employer	25
Title	Principal / Electrical Engineer		Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization			BS | 1985 | Electrical Engineering	
Active registration number / state / expiration date			PE.0026059 | LA | 3/31/24	
Year registered	1995	Discipline	Electrical	
Contract role(s) / brief description of responsibilities			Electrical Design and fulfills MPR #4a.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
5/16 to 11/16	**H.012182.1, Weigh Station Design, Renovation and Upgrade –** Site visits to conduct assessment and inventory of all existing electrical equipment and conditions. Included the assessment of the existing site lighting including pole location with fixture type, and exterior/site lighting control.
2/13 to 12/16	**SP #455-09-0001 and SP#455-09-0002 (H.003886 / H.003496 / H.003495 / H.011111/ H.011105) - I-49 North, I-220 to LA 1 -** Electrical Engineer responsible for roadway lighting on I-49. This segment includes the I-49/I-220 Interchange.
3/11 to 8/13 **11/11** **7/13 to 8/13** **3/11 to 4/11**	**SP#4400001234, Retainer Contract for Electrical Services Statewide** - Providing electrical design services for new and existing DOTD facilities. Including the design of building electrical power, lighting, emergency generator and other special systems as needed. H.970609.1, District 62 – Franklinton Maintenance Unit, Washington Parish H.971895.1, Section 42 – Central Repair Shop Renovations, East Baton Rouge Parish H.971552.1, East Baton Rouge Parish – HQ Renovation Truck Permits
12/19	**DOTD Headquarters Helipad, Baton Rouge, LA (H.972332.1)** Electrical design for the DOTD Headquarters helipad.
8/03 to 6/06	**SP# 044-01-0038, Benton Road, LA Highway 3 Overpass, Bossier City, LA -** Responsible for engineering design for the installation of roadway lighting along the approaches and overpass at LA Highway 3 and Benton Road Spur. Plans coordinated with roadway and overpass design plans by AFJMc Transportation group. Plans included with overall project set and issued for bid as part of complete roadway project.
12/01 to 6/04	**SP# 427-01-01-0024, Louisiana Highway 3132, The Inner Loop Expressway - Roadway Lighting, Shreveport, LA -** Responsible for engineering design and project management for the installation of roadway lighting for an approximate 7-mile section of the highway. Project included lighting layout-design, power distribution and control. Teamed with DBE firm for COS Fair Share Program. Design complete and submitted to the City of Shreveport.
8/07 to 9/07	**SP #5029-06B-02, Highway 80, Bossier Parish, LA, Industrial Drive To I-220 -** Provided design engineering of lighting system. Performed lighting and electrical calculations, determined fixture locations and electrical service/control for approximately 2.5 miles of highway.
11/02 to 6/03	**General Motors Boulevard - Roadway Lighting, Shreveport, LA (no project number) -** Responsible for the engineering design and project management for the installation of roadway lighting for an approximate 2-mile roadway. Project included lighting layout/design, power distribution and control, as well as preparation of the complete bid package.
12/02 to 10/05	**Traffic Street, Phase 2 - Roadway Lighting, Bossier City, LA (no project number) -** Responsible for the engineering design of a section of roadway lighting extending from the intersection with U.S. Highway 80. Project included lighting layout/design, power distribution and control. Project required coordination with traffic signal engineering. Utilized architectural poles and fixtures for coordination with area retail development.

12/02 to 10/05	**Traffic Street, Phase 3 - Roadway Lighting, Bossier City, LA (no project number) -** Engineering design for the extension of Phase 2 lighting further along Traffic Street and underneath an existing railway overpass. Design complete. Plans included with overall roadway design by AFJMc Transportation Group. Awaiting issue for construction.
7/04 to 8/07	**Arthur Teague Parkway - Roadway Lighting, Bossier City, LA (no project number) -** Engineering design for roadway lighting along the Phase I Extension north, approximately 1/4 mile. Utilized architectural poles and fixtures for coordination with existing and planned lighting along Traffic Street. Plans included with roadway design plan set by AFJMc Transportation group.
11/98 to 5/01	**SP #604-01-0037, LaDOTD Office Building, Bossier City, LA -** Responsible for the engineering design of lighting, power, voice and data communications, fire alarm and access control systems for a new, two-story office building for the LaDOTD District 04 Headquarters.

16. Staff Experience:

Firm employed by: **Aillet, Fenner, Jolly & McClelland, Inc.**					
Name	**Daniel Brown, PE, LEED AP**		Years of relevant experience with this employer	15	
Title	Electrical Engineer / Supervisor Engineer		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS | 2008 | Electrical Engineering		
Active registration number / state / expiration date			PE.0041687 / LA / 9-30-23		
Year registered	1995	Discipline	Electrical		
Contract role(s) / brief description of responsibilities			Electrical Design and fulfills MPR #4b.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
4/13 - 3/18	**SP #455-09-0001 and SP#455-09-0002 (H.003886 / H.003496 / H.003495 / H.011111/ H.011105) - I-49 North, I-220 to LA 1** – Electrical design for roadway lighting on I-49. This segment includes the I-49/I-220 Interchange.
4/19 to 4/20	**Virtual Weigh-in-Motion US Hwy 61, W. Feliciana Parish, LA, (H.012164-1)** Prime consultant to develop construction road plans for the placement of a Virtual Weigh-In-Motion (VWIM) station, south of Louisiana/Mississippi State Line. The plans included electrical and guardrail design for the site.
8/11 – 5/16 **(8/11 - 4/13)** **(8/11 - 5/16)**	**SP#4400001234, Retainer Contract for Electrical Services Statewide -** Providing electrical design services for new and existing LaDOTD facilities. Including the design of building electrical power, lighting, emergency generator and other special systems as needed. **H.970609.1**, District 62 – Franklinton Maintenance Unit, Washington Parish **H.971895.1**, Section 42 – Central Repair Shop Renovations, East Baton Rouge Parish
11/20 to 8/21	**H.011446.5, Mound Rest Area Improvements, Route I-20 –** Electrical engineer responsible for converting the site to 3-Phase power, site lighting, CCTV surveillance systems, back-up generator systems, surge protection, and replacing lighting on the interstate ramps.
2/19 to 4/20	**I-10: Texas State Line-E. of Coone Gulley, WIM Toomey Weigh Station, I-10 –** Electrical design for electrical equipment including cabinet, poles, and cameras,
7/08 – 4/09	**Louisiana Tech Data Replication Center, Ruston, LA (no project number) -** Project consisted of designing high level of security for a data replication center for all LA state agencies. High level of security wing consisted of designing and coordinating with all city and state municipalities in providing normal and UPS electrical power, security clearances, access control systems, preaction fire system, CCTV, and HVAC systems.
7/10	**Bossier Law Enforcement – Administration Building, Bossier Parish, LA (no project number) -** MEP engineering services for the renovation and expansion of an existing two-story office building. Under the scope of work, associated construction areas included offices, meeting rooms, communications, administration and storage.
12/10	**Red River Parish Ambulance Station, Red River Parish, LA (no project number) -** Mechanical, electrical and plumbing design for a new single story parish ambulance/EMS facility. Station included vehicle areas, sleeping quarters, kitchen, offices, training, communications, administration and storage. MEP services included HVAC, plumbing, fire protection, power, lighting & data communications.

16. Staff Experience:

Firm employed by: **Aillet, Fenner, Jolly & McClelland, Inc.**					
Name	**Paul Cormier, PE**			Years of relevant experience with this employer	15
Title	Structural Engineer			Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization			BS | 1989 | Civil Engineering ME |1994 | Civil Engineering		
Active registration number / state / expiration date			PE.0027019 / LA / 3-31-25		
Year registered	1996	Discipline	Civil, Structural		
Contract role(s) / brief description of responsibilities			Structural Design and fulfills MPR #6.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/20 to 8/21	**H.011446.5, Mound Rest Area Improvements, Route I-20 –** Responsible for **s**tructural design which includes foundation design for overhead structures such as pavilions, covered walkways and the design of wood bridges and bulkhead at pond edges.
6/13 to 8/13	**SP #455-09-0001 and SP#455-09-0002 (H.003886 / H.003496 / H.003495 / H.011111/ H.011105) - I-49 North, I-220 to LA 1** – Check concrete structures for inverted siphon.
2/09 to 2/12	**Regional Commerce Center for Port of Shreveport-Bossier, Shreveport, LA, (no project number) -** Structural design for a 33,000 sq ft., three-story office building which is LEED Gold certified. First floor is a conventional concrete structure and includes a parking area. The second and third floors are conventional steel structures. The Commerce Center is designed with aluminum composite skins and glass curtain wall system, and is designed to take advantage of natural lighting and sun exposure.
2007 - 2008	**Pratt Paper (LA), LLC, Shreveport, LA, (no project number) -** Provided building and equipment foundation design, pile-supported concrete ground floor framing, steel-framed operating floor framing and roof design for manufacturing plant, office, materials recycling facility and waste treatment facilities. Crane girder framing and foundation design for (2) 55 metric tonne bridge cranes. AFJMc provided design services for construction and installation of a truck scale including roadways, maps, foundations, electrical power and communication conduit.
2016-2017	**Wieland Davco, Shreveport, LA, (no project number) -** AFJMc served as structural engineer of record for conversion of load-bearing masonry structure formerly housing the original Sci-Port children's museum into an office for a construction company. Project involved demolition and remodeling of front façade and the addition of interior lateral load resisting elements to stabilize building lateral drift and the creation of openings in the existing load-bearing masonry walls.
2008-2009	**A.D.S. Logistics / Port Of Caddo Bossier, Shreveport, LA, (no project number) -** Structural design of 100,000 SF warehouse which included foundation plans and framing plans for roof and bridge cranes.

16. Staff Experience:

Firm employed by: **Aillet, Fenner, Jolly & McClelland, Inc.**				
Name	**Matthew J. Wallace, PE, SE**		Years of relevant experience with this employer	28
Title	Principal / Structural Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			BS | 1989 | Civil Engineering	
Active registration number / state / expiration date			PE.0025922 / LA / 9-30-23	
Year registered	1994, 2016	Discipline	Civil, Structural	
Contract role(s) / brief description of responsibilities			Structural Design and fulfills MPR #6.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
1/22 to 4/22	**SP #H.972448.1 DOTD Central Repair Shop (Heavy Repair Shop Addition), East Baton Rouge Parish, LA –** Project manager for foundation design for metal building based on DOTD's provided soils report or matching existing adjacent building; Slab design; Schematic metal building design based on architectural floor plan, roof plan, and elevations; Shop drawing review for metal building and foundation elements and site visit during construction.
5/11 to 2/20	**SP #455-09-0001 and SP#455-09-0002 (H.003886 / H.003496 / H.003495 / H.011111/ H.011105) - I-49 North, I-220 to LA 1** – Project Engineer providing structural support. This segment includes the I-49/I-220 Interchange. Designed light pole bases in addition to ensuring LaDOTD standards were met.
9/12 to 12/17	**SP # 742-10-0130, Sale Road Bridge, Lake Charles, LA -** 0.375 mile urban bridge replacement project, Widening of Sale Road and bridge from two lanes to a four lane road with curb, subsurface drainage, 7 span bridge, sheet pile retaining walls, guard rails and sanitary sewer relocation.
3/12 to 6/12	**Palmetto Road Bridge, Bossier Parish, LA (no project number) -** Structural lead for widening of a slab span bridge.
2/04 to 6/10	**SP #038-03-0022, U.S. 425, Bastrop-Log Cabin, Morehouse Parish -** Structural Lead for final design of one five-lane and one two-lane highway bridges.
1996	**Ockley Street Bridge Replacement, City Of Shreveport, Shreveport, LA (no project number) -** Structural engineer for new two lane bridge with sidewalks required when Ockley Ditch was widened. Prestressed concrete beam with concrete deck and concrete pile.
6/04 to 7/04	**Willow Chute Bridge, Parish Hwy No. 3105, Bossier Parish, LA (no project number) -** Structural Lead for final design of a precast prestressed slab span replacement bridge.
1999	**R-1 Railway Bridge, FT. Polk, LA (no project number)-** Project Management, Bridge design for the replacement of R-1 railway bridge.
1/03 to 11/06	**SP#044-01-0038, LA 3, Benton Road Overpass, Bossier Parish -** Project Supervision for a five-lane urban realignment of LA 3 over the Kansas City Southern Railroad. Designed light pole bases in addition to ensuring LaDOTD standards were met.
6/01 to 4/11	**Traffic Street Improvements and Underpass, Bossier Parish (no project number) -** Project Supervision and structural design for a five lane urban street widening and Kansas City Southern Railroad underpass. Designed light pole bases in addition to ensuring LaDOTD standards were met.
1/06	**Arthur Ray Teague Parkway, Bossier City, LA (no project number) -** Project Principal for the continuation of the existing parkway along the Red River in Bossier City.

16. Staff Experience:

Firm employed by: **Aillet, Fenner, Jolly & McClelland, Inc.**					
Name	**J. Daniel Thompson, PE, SE**		Years of relevant experience with this employer	17	
Title	Supervisor Engineer / Structural Engineer		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS | 2006 | Civil Engineering; MS | 2010 | Engineering & Technology Mgmt.		
Active registration number / state / expiration date			PE.0035628 / LA / 9-30-24		
Year registered	2006; 2016	Discipline	Civil, Structural		
Contract role(s) / brief description of responsibilities			Structural Design and fulfills MPR #6.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
5/12-10/12	**Arthur Ray Teague Parkway Extension Soundwall, Bossier Parish, LA (no project number)**: Designed posts, base plates, anchor bolts and foundations for new sound wall system for the ART Parkway Extension.
4/12-2/14	**I-10 Soundwall, New Orleans, LA (no project number)**: Design of posts and connections for new soundwall on I-10.
5/14-6/14	**LaDOTD Soundwall, New Orleans, LA (no project number)**: Analysis of LADOTD soundwall gate.
5/06-5/07	**SP #455-09-0001 and SP#455-09-0002 (H.003886 / H.003496 / H.003495 / H.011111/ H.011105) - I-49 North, I-220 to LA 1** – Built templates, decision tables and superelevation for ramps over I-220 and MLK Drive. Also calculated and set right of way for mainline 49 as well as the ramps from I-220, MLK Drive and LA
4/06-3/08	**SP#038-03-0022, US Highway 425, Bastrop – Log Cabin, Morehouse Parish, LA -** Designed subsurface drainage and storm sewer systems with the use of Inroads Storm and Sanitary and LADOTD Hydraulics programs. Built templates, decision tables and superelevation for mainline US 425 and the side roads that connect. Performed design for all returns for the side roads and created all Typical Sections for the project.
6/06-12/07	**SP#044-01-0038, LA 3, Benton Road Overpass, Bossier Parish, LA -** Final construction plans and documents for a five lane urban realignment of LA 3 over the Kansas City Southern Railroad, including parcel calculations and right-of-way maps and construction phase services.
1/07-8/09	**Linton Road, Bossier Parish, LA (no project number):** The redesign and reconstruction of a deadly curve and the rehabilitation of the remainder of the road. AFJM corrected the curve to AASHTO and LADOTD standards to allow for a safe sight distance. AFJM also relocated an existing 8" waterline and developed Right-Of-Way maps.
4/06-6/07	**Arthur Ray Teague Parkway, Bossier Parish, LA (no project number):** Project Designer for the continuation of the existing parkway along the Red River in Bossier City. Designed light pole bases in addition to ensuring LaDOTD standards were met.
6/12	**Palmetto Road, Bossier Parish, LA (no project number)**: AFJM to conducted a Line and Grade Study to three lane of a narrow two lane road. Having completed the study AFJM developed Preliminary Plans and Final Plans to widen the road and an existing 2-lane bridge.
4/06 to 12/10	**Traffic Street Improvements and Underpass, Bossier Parish (no project number) -** Project engineer for a five lane urban street widening and Kansas City Southern Railroad underpass. Designed light pole bases in addition to ensuring LaDOTD standards were met.

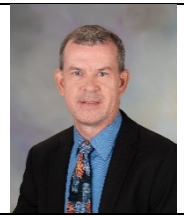
16. Staff Experience:

Firm employed by Lazenby & Associates, Inc.					
Name	**Ronald J. Riggin, II, P.E., P.L.S.**		Years of relevant experience with this employer	11	
Title	Project Surveyor		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			B.S. / 2006 / Civil Engineering		
Active registration number / state / expiration date			P.L.S. 0005119/ Louisiana / 03/31/2023 P.E. 0036016 / Louisiana / 03/31/2023		
Year registered	2014 2011	Discipline	Professional Land Surveyor Professional Engineer (Civil)		
Contract role(s) / brief description of responsibilities			Topographic Survey		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Riggin is familiar with the requirements of the LDOTD Location and Survey Section for conducting topographic surveys, property surveys and hydrographic surveys. Mr. Riggin is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Mr. Riggin has over five (5) years of experience in conducting and performing topographic surveys, property surveys, and developing right-of-way maps. Mr. Riggin has successfully completed following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher) ATSSA Course for Traffic Flagger, 2020 On this project, Mr. Riggin meets the MPR Requirement No. 8.
07/14 – 06/16	Retainer Contract No. 4400003471 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of $436,473.00 for LDOTD State Projects at various locations in northern Louisiana.
10/14 – 06/17	Retainer Contract No. 4400004541 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 8 Task Orders for an accumulated value of $811,513.00 for LDOTD State Projects at various locations in Louisiana.
04/13 – 06/16	Project Surveyor for Contract No. 4400002862, S.P. # H.008768 – Hydrographic Survey Monitoring of Existing Bridges – Statewide (North Region). Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.
04/14 – Present	Professional Surveyor of Record for developing topographic surveys and Property Surveys for private clients on residential developments and commercial developments in Ouachita Parish and northern Louisiana. Professional Engineer of Record for the overall design of residential and commercial developments.
03/15 – 08/17	State Project No. H.011742: Ole Highway 15 Improvements, Ouachita Parish. Mr. Riggin performed a topographic survey of a 2.2-mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design. This project consisted of pavement reconstruction under the DOTD Urban Systems program. (Note that we typically perform a full topo survey, within existing right-of-way, on pavement preservation projects on Ouachita Parish roadways. This is not always done on pavement preservation projects in other parts of the state.)

05/16 – 02/18	Project Surveyor on the Steep Bayou Sewer Main project of the West Ouachita Sewerage District No. 5. Mr. Riggin performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish. He also conducted a boundary survey of the right-of-way parcels along this route and developed the necessary ROW maps and legal descriptions.
09/18 – 01/23	Retainer Contract No. 4400012668 – Retainer Contract for Professional Surveying Services – Statewide (North Region). Performed hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties included supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
06/18 – 09/18	State Project No. H.013776, Well Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.8-mile segment of Well Road from LA 838 to I-20 under the DOTD Urban Systems program.
08/18 – 11/18	State Project No. H.013798: Harrell Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.8-mile segment of roadway from US 80 to LA 616 under the DOTD Urban Systems program.
12/18 – 02/19	State Project No. H.013802: Garrett Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.4-mile segment of roadway from LA 15 to Austin Street under the DOTD Urban Systems program.
01/19 – 04/19	State Project No. H.013804: Wall Williams Road, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of segments of mill, patch, and overlay and segments of reconstruction of a 1.6-mile segment of roadway from Good Hope Road to LA 143 under the DOTD Urban Systems program.
04/19 – 07/19	State Project No. H.014348: Lee Avenue, City of Monroe, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.2-mile segment of roadway from Jackson Street to Standifer Avenue under the DOTD Urban Systems program.
07/19 – 09/19	State Project No. H.013796: Tanglewood Drive, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of roadway reconstruction a 0.3-mile segment of roadway from LA 15 to Dellwood Drive under the DOTD Urban Systems program.
02/20 – 04/20	State Project No. H.014347: South Grand Street, City of Monroe, Ouachita Parish. Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.8-mile segment of roadway from Orange Street to Standifer Avenue under the DOTD Urban Systems program.
11/20 – present	Retainer Contract No. 4400019714 – Retainer Contract for Professional Surveying Services – Statewide (North Region). Performing hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties include supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
01/17 – 01/20	Retainer Contract No. 4400009384 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of $989,478 for LDOTD State Projects at various locations in Louisiana.
10/19 – present	Retainer Contract No. 4400015326 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys at various locations in Louisiana. To date, 14 Task Orders have been issued for an accumulated value of $1,825,144.
01/20 – present	Retainer Contract No. 4400017710 – Retainer Contract for Professional Surveying Services – Statewide. Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys at various locations in Louisiana. To date, 1 Task Order has been issued for a value of $393,871.

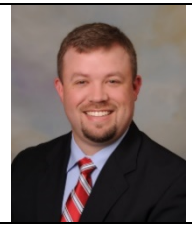
16. Staff Experience

Firm employed by **Lazenby & Associates, Inc.**					
Name	**Randy Hammons, P.E.**		Years of experience with this firm/employer	21	
Title	Project Engineer		Years of experience with other firm(s)/employer(s)	8	
Degree(s) / Years / Specialization			B.S. / 1993 / Civil Engineering		
Active registration number / state / expiration date			P.E. 0029504 / Louisiana / 09/30/2023		
Year registered	2001	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Topographic Survey		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Hammons has in excess of 25 years of experience in planning and designing highways and bridges on transportation projects in Louisiana, Arkansas, Mississippi, and Tennessee. Mr. Hammons has approximately 15 years of experience supervising and processing topographic survey data, including establishing survey control, calculating existing alignments, creating digital terrain models (DTM's), and developing existing drainage maps for LDOTD projects. Mr. Hammons has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher)
10/14 – 06/17	Project Engineer processing topographic survey field data and development of topographic survey maps and images for State Contract No. 4400004541: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained eight task orders to perform topographic surveys for various projects at a cost of $811,513 over a 3-year period. Some of the task orders for Topographic Surveys were as follows: State Project No. H.004774.5 – Kansas Lane – Garrett Road Connector & I-20 Interchange Improvements, in Ouachita Parish. (06/2015 – 06/2016). Topographic survey using GPS receivers and robotic total stations. State Project No. H.001270.5 – LA I-X: Natchitoches By-Pass on Keyser Avenue and the Cane River in Natchitoches Parish. (04/2017 – 07/2017). Topographic Survey of road and bridge replacement project using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. State Project No. H.009997.5 – US 167: Johnston Street Improvements on Route US 167 in Lafayette Parish. (04/2017 – 09/2017). Topographic survey of a heavily traveled urban system route in Lafayette, Louisiana using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
01/10/2017 – 01/10/2020	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400009384: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained six task orders to perform topographic surveys for various projects at a cost of $989,478 over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows: State Project No. H.003370.5 – I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/2018 – 10/2018). Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, SX-10 terrestrial scanner, and mobile lidar. State Project No. H.007300.5 & H004774.5 – Kansas Lane – Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/2018 – 9/2018) Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. State Project No. H.012036.5 – US 80: Boeuf River Bridge in Richland Parish (03/2019 – 6/2019). Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.

10/19 – present	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract has contained fifteen task orders to perform topographic surveys for various projects at a cost of $1,825,144 over a 5-year time frame. Some of the task orders for Topographic Surveys were as follows: State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021). Topographic survey of the BNSF RR and several local urban routes and crossings in the town of Baldwin, Louisiana using GPS receivers and robotic total stations. State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021). Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. State Project No. H.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021). Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021). Topographic survey of a proposed roundabout site located at the intersection of LA 406 and Keating Dr and F.E. Hebert Blvd using GPS receivers and robotic total stations. State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021). Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. State Project No. H.012541.5 – LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022). Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022). Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 7,130 LF of I-20 mainline.
01/20 - present	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400017710: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract has contained one task order to perform topographic surveys at a cost of $393,871 over a 5-year time frame. The task order for Topographic Surveys is as follows: State Project No. H.015052.5 – I-20 Widening & Improvements (Vancil to LA 34), Route I-20 in Ouachita Parish (05/2022-01/2023). Topographic survey of a proposed 3.94 mi interstate widening from Vancil Road to LA 34 along I-20 in West Monroe using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 20,815 LF of I-20 mainline.

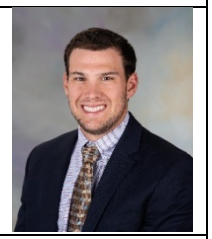
16. Staff Experience

Firm employed by **Lazenby & Associates, Inc.**					
Name	**James S. Ellingburg P.E.**		Years of experience with this firm/employer	14	
Title	Project Engineer		Years of experience with other firm(s)/employer(s)	0	
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering		
Active registration number / state / expiration date			P.E. 0037236 / Louisiana / 09/30/2022		
Year registered	2012	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Road Design, Hydraulic Analysis & Design, Topographic Survey		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Ellingburg has over 14 years of experience in developing roadway plans on both LDOTD and local roadway projects. Mr. Ellingburg is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Ellingburg has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. Mr. Ellingburg has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2020 (refresher) LA Specific Traffic Control Supervisor Course, 2020 (refresher) Designing Streets for Pedestrians and Bicyclists Workshop, 2016 Highway Safety Manual Workshop, 2016 Roundabout Design Workshop, 2013 Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022
05/08 – 06/15	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish. Mr. Ellingburg initially served as an engineering technician, checking the topographic survey in the field for accuracy. Mr. Ellingburg then served as a project staff engineer, assisting the project engineer with development of existing drainage maps, drainage design maps, utility adjustments, and developing roadway plans. Mr. Ellingburg also assisted with roundabout designs, and sequence of construction in both Preliminary and Final plan development. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts that required extensive geometric design and graphical grade development in order to meet AASHTO and LDOTD standards and requirements for safety. Once the project was let for construction, Mr. Ellingburg provided construction support on an as-needed basis by answering field questions from the contractor or LDOTD.
12/10 – 10/12	State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish. Mr. Ellingburg served as a project staff engineer, working on development of existing drainage maps, design drainage maps, roadway drainage plans, and assisting with roadway and bridge design and plan development for both Preliminary and Final plans. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2 mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on the project.

11/11 – 01/12	State Project No. H.004684: El Camino East/West Corridor, Route LA 6, Natchitoches Parish. Mr. Ellingburg served as a project staff engineer, developing existing drainage maps for a LDOTD Topographic Survey.
09/17 – Present	State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. Mr. Ellingburg served as a project staff engineer, assisting with generating topographic survey deliverables, developing existing drainage maps for the topographic survey portion of the project. During the design and plan preparation portion of the project, Mr. Ellingburg has performed drainage design, developed design drainage maps, and assisted with design of five multi-lane roundabouts, developing graphical grades and assisting with geometric design. This urban project includes five multilane roundabouts and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety. The final plans are currently 98% complete.

16. Staff Experience

Firm employed by Lazenby & Associates, Inc.					
Name	**Noah J. Sampognaro, E.I.**		Years of experience with this firm/employer	2	
Title	Engineer Intern		Years of experience with other firm(s)/employer(s)	0	
Degree(s) / Years / Specialization			B.S. / 2020 / Civil Engineering		
Active registration number / state / expiration date			E.I. 0034746 / Louisiana / 09/30/2023		
Year registered	2021	Discipline	Civil Engineering (E.I.)		
Contract role(s) / brief description of responsibilities			Road Design, Hydraulic Design & Analysis, Topographic Survey		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Sampognaro has 2 years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway plans on a variety of LDOTD and local roadway projects. Mr. Sampognaro passed his P.E. Civil Transportation exam in October 2022 and is currently enrolled in the University of Wyoming Cadastral Surveying Certificate Program. Mr. Sampognaro is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Sampognaro also assists in processing topographic survey and mobile LIDAR data, creating survey centerline alignments (ALG's) using horizontal regression analysis, developing digital terrain models (DTM's), and producing existing drainage maps for LDOTD topographic surveys. Mr. Sampognaro has successfully completed the following continuing education classes, workshops, and seminars: TOPO Dot User Conference, 2022 One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022 LA Specific Traffic Control Technician Course, 2022 LA Specific Traffic Control Supervision Course, 2022
01/21 – 06/2022	State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract consisted of fifteen task orders to perform topographic surveys for various projects across Louisiana. Mr. Sampognaro assisted in post-processing topographic survey data which was collected with the use of GPS receivers, robotic total stations, and SX-10 terrestrial scanners, as well as using TOPO Dot software to extract data collected with a terrestrial mobile lidar scanner. His duties also included creating survey centerline alignments (ALG's) and associated reports using horizontal regression analysis, developing existing digital terrain models (DTMs), and producing existing drainage maps. Some of the task orders on which Mr. Sampognaro has assisted include the following: State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021) State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021) State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021) State Project No. H.012541.5 – LA 594: Overpass I-20, Route 594 in Ouachita Parish (01/2022-06/2022) State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022)
01/22 – 1/23	State Project No. H.015052: I-20: I-20 Widening/Overlay (Vancil Rd to LA 34). This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Mr. Sampognaro assisted in post-processing the survey data, extracting mobile LIDAR data using TOPO Dot software, and creating the existing drainage map. He also assisted in quality control measures by comparing field data collected by the survey crew to LDOTD as-built drawings.

01/21 – Present	Ouachita Parish Police Jury Road Program. Mr. Sampognaro has assisted with the Ouachita Parish Police Jury Road Program. His duties consist of post-processing topographic survey data, developing pavement preservation roadway plans, including design of cross drain structures, superelevation correction calculations, and quantity calculations, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Some of the Ouachita Parish Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction) State Project No. H.014397 – Rowland Road (Mill, Patch and Overlay)
06/21 - Present	City of Monroe, Louisiana roadways. Mr. Sampognaro has assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. His duties consist of post-processing topographic survey data, developing pavement preservation roadway plans, including hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay) State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay) Mr. Sampognaro is currently assisting with construction support activities by field marking and verifying required areas of pavement patching.
08/22 – Present	US 165 Turn Lanes at Scott Drive, Ouachita Parish. Mr. Sampognaro assisted in the development of roadway plans and post-processing the topographic survey data, including creating the existing digital terrain model (DTM), drainage design, and quantity calculations. This project, which was prepared for the Ouachita Parish School board, consists of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington Louisiana.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	**Karla E. Weston, PE**		Years of relevant experience with this employer	18	
Title	President		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			Bachelor of Science / 1999 / Civil Engineering		
Active registration number / state / expiration date			31010 / Louisiana / March 31, 2024		
Year registered	2004	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Mrs. Weston will oversee the firms' role as a sub-consultant and make sure the work is completed to LADOTD standards.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/16-09/19	**H.003047 Pecue Lane/I-10 Interchange, Baton Rouge, LA**: Mrs. Weston's served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design services of the West Bound on Ramp to I-10, the West Bound Off Ramp from I-10, the extension to Rieger Road and Pecue Lane Extension. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.
12/13 – 10/19	**H.02960 Gramercy Bridge, St. James Parish, LA**: Mrs. Weston served as Principal-in-Charge for the firm's role as a subconsultant for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project
02/14 - 02/15	**H.010620 I-49 Design Build, Lafayette, LA**: Mrs. Weston provided QA/QC review for the Roadway Design Plans on this Design-Build Project for part of the I-49 South Corridor.
05/13 – 05/14	**H.009288.5 LA 1 Railroad Bridge at DOW, WBR Parish, LA**: Mrs. Weston served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.
01/06 – 12/12	**EBR City/parish Project No. 06-CS-HC-0018, Fairchild-Badley Roadway, EBR Parish, LA**: Mrs. Weston served as Principal in Charge for this project that was approx. 1.25 miles in length along Fairchild-Badley Road and also included approximately 600 linear feet of Elm Grove Garden Dr. CD&C designed the upgrade to the existing narrow roadway to a typical section of 2-11' lands with a 2' barrier curb and gutter, and a 6' adjacent sidewalk. This included the design of a new sub-surface drainage system throughout the length of the project as well.
03/12 – 07/12	**H.009104.5 - Sunshine Bridge Phase 2:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the repairs and widening to the Sunshine Bridge.
05/11 – 04/12	**Red River – Jackson Street Bridge, Alexandria, LA:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the replacement of the Jackson Street Bridge over the Red River.
06/12 – 10/12	**H.009986 – Paths 2 Progress. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group 33** Ms. Weston served as the Principal-in-charge/Project Manager for this roadway rehabilitation project of roads in Jefferson Parish. This included

	field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
12/11 – 4/12	**H.005902.5 - Consulting Services for the Permanent Repair to Federal Aid Eligible Roads as a Result of Damage due to Hurricane Katrina in 2005. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group 29** Ms. Weston served as the Principal-in-charge/Project Manager for this project which included survey, field reconnaissance to determine severity of inundated roadways due to Hurricane Katrina in the City of New Orleans, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.
01/06 – 07/06	**Picardy Avenue Extension–City/Parish of East Baton Rouge:** Mrs. Weston served as Principal-in-Charge for this extension of Picardy Avenue, connecting Bluebonnet Blvd. with I-10 West. Duties included project layout and design as wells as subsurface drainage design for approximately ½ mile.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	**Ralph Burgess, PLS**		Years of relevant experience with this employer	12	
Title	Principal Land Surveyor		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization			BS / 2004 / Industrial Design & Supervision, Southeastern LA University		
Active registration number / state / expiration date			5040 / Louisiana – September 30, 2024		
Year registered	2010	Discipline	Land Surveyor		
Contract role(s) / brief description of responsibilities.			Mr. Burgess serves as the Survey Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning. Mr. Burgess fulfills MPR #8.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/20 – 01/21	**H014302 US 165 Lighting, Monroe, LA:** Mr. Burgess served as the Survey Manager on this project. CD&C was a sub-consultant on this project and was responsible for topographic surveying of US 165 south of Monroe for a highway lighting improvement. The topographic data for this project was collected both traditionally and with the use of 3D Terrestrial Scanning.
09/21 – 03/22	**H.014747 Southern University Ravine Protection, East Baton Rouge Parish**:Mr. Burgess was the Survey Manager for this project. CD&C as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University The topographic data for this project was collected both traditionally and utilizing 3D Scanning. Mr. Burgess worked with SUE sub-consultant, TBS, as well as CD&C crews to obtain and incorporate all utility data as well.
08/21 – On-Going	**H.011833.5 St. Mary Street Sidewalks; Scott, LA**:Mr. Burgess was the Survey Manager for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
7/17-12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial scanning crew along with office personnel, coordination. Special duties were merging of two state projects with project survey for final submittal to combine all projects together.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA**: Mr. Burgess served as Survey Manager for the project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.

07/20 – 04/21	**H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish**: Mr. Burgess was the Survey Manager for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. This included merging of data from a previous survey on one portion of the site and field verifications of that data. The topographic data for this project was collected traditionally.
01/18-01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA**: . Burgess was the surveying Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
7/17-12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial scanning crew along with office personnel, coordination. Special duties were merging of two state projects with project survey for final submittal to combine all projects together.
01/16-08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included complete topographic survey and drainage map for this project including all utility coordination. The survey began at the intersection of US 190 and Holiday Square Frontage Road. From this point, the survey proceeded in a northerly direction along US 190 for approximately 2.9 miles to a point that is 700 feet South of Intersection of US 190 and E. Boston St. in Covington, LA. This project also included work in the Abita River and utilized 3D Terrestrial Scanning for the main route.
10/15-12/18	**H.003184.5 I-10 Texas State Line –East of Coone Gully, Calcasieu Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, coordination of utility companies on the project, review and verification of drainage crossing I10, merging of existing topographic survey of bridges from LADOTD and final review of all survey data for submittals
08/16-12/17	**H.011235 I-49 South at Verot School Road, Lafayette, LA**: Mr. Burgess served as the Survey Manager for the project. Duties included meeting with LADOTD, and all consultants on the team, coordination of both traditional crews and 3D terrestrial scanning crew, coordination of survey crews with Cardno, Inc, utility locations on the project, met and review right of entry with landowners for project, review of drainage map, merging of existing topographic survey of the I-49 Connector project from LADOTD with current survey of project, review of apparent right of way mapping for prime consultant, and final review of all survey data.
07//14-10/15	**H.011088.5 I-110 North Street to Plank Road, EBR Parish, LA**: Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, review and verification of drainage map, merging and final review of all survey data for submittals. Other special duties were coordinating with LADOTD District 61 for a rolling lane closure for location of drainage located in the interior of the project along the existing crash wall. Also, coordination with LADOTD Records and EBR City Parish regarding the research of all drainage structures that enter and leave the project area.
04/17-07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA**: Mr. Burgess served as Survey Manager on this project which included a complete topographic survey, utility coordination, channel cross-sections and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	**Chris Ballard, PLS**		Years of relevant experience with this employer	8	
Title	Survey Project Manager		Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization			BS / 2004 / Biological Science / Southeastern LA University		
Active registration number / state / expiration date			5033 / Louisiana – September 30, 2022		
Year registered	2010	Discipline	Land Surveyor		
Contract role(s) / brief description of responsibilities.			Mr. Ballard serve as the Survey Project Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning. Mr. Ballard fulfills MPR #8.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/01/18-01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA**: Mr. Ballard is the Surveying Project Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
04/17-07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA**: Mr. Ballard served as the firms Survey Project Manager on this project which included a complete topographic survey, utility coordination, channel cross sections, and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.
02/19-09/19	**Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA**: Mr. Ballard is serving Survey Project Manager for this project for East Feliciana Parish Police Jury. It includes the replacement of 2 bridges which were damaged from flooding and the repairs to many rural roadways throughout the parish. These projects are being funded thru FEMA and all documentation has to be in accordance with FEMA's policies and procedures.
01/17-12/17	**East Baton Rouge Parish Bridges, East Baton Rouge Parish, LA:** In 2017, CD&C has performed topographic surveys for at least 4 Bridge Replacement Projects throughout East Baton Rouge Parish. Mr. Ballard served as Survey Project Manager on each of these projects which included cross-sectioning and tracing the channel at each location. These included bridges over Dawson Creek, Claycut Bayou, Copper Mill Bayou, and Cypress Bayou.
10/16 - 11/16	**H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA**: Mr. Ballard served as the Project Manager for this Project. Among the duties performed for the project were review of the crew work conditions, review & processing of the survey data, verification, and review of final submittal. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional

	information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge, **3D Terrestrial Scanning** was incorporated in conjunction with traditional means to complete the topographic survey. Due to the nature of the project being an Emergency Bridge replacement all staff worked on this project non-stop until field work was completed in less than 3 weeks.
09/17 -09/17	**H.012650.5-1 District 62 Bridges, Livingston and Tangipahoa Parishes, LA**: Mr. Ballard served as a Survey Project Manager for this project which included 5 bridge sites in District 62. In addition to all of the existing data for the bridge and roadway at each site, each channel was cross-sectioned both upstream and downstream of the bridge. These included bridges over the US 190 Bridge over Gray's creek, 2 bridges on LA 442 both crossing East Hog Branch, LA 1063 over the Natalbany River, and US 51 over Ponchatoula Creek. Several of these bridges including the US190 one was surveyed utilizing **3D Terrestrial Scanning**.
10/15 - 12/18	**H.003184.5 I-10 Texas State Line – East of Coone Gully, Calcasieu Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project which is a 6-lane widening of I-10. Duties performed on this project included the review of the survey information from crew, verification of project delivery schedule, processing of data and final review of submittal of project. 3D Terrestrial Scanning was used in conjunction with traditional means and methods for the completion of this project.
01/16 - 08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project. CD&C provided a complete topo survey & drainage map along with utility coordination for the project. Project duties included processing of data, review of field notes and weeklies, & performing final punch list. This project also included work in the Abita River utilized 3D Terrestrial Scanning for the main route.
10/15 - 01/16	**H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new sidewalk.
06/11 - 09/13	**260-01-0028, H.002372 LA 42 Widening and Improvements, Ascension Parish, LA**: Mr. Ballard worked as a PLS on this project which included boundary and topography, establishing the existing ROW and acquisition of additional ROW.
07/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA**: Mr. Ballard served as the Survey Project Manager on this project that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall within the survey limits. Project included data collection of the topography via traditional means and methods along with **3D terrestrial scanning.**

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	**Madison Mills, PLS**		Years of relevant experience with this employer	1+	
Title	Professional Land Surveyor		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization			BS / 2016 / Civil Engineering		
Active registration number / state / expiration date			PLS 5293/LA/03/31/2025		
Year registered	11/15/2022	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities.			Mr. Mills joined CD&C in 2021 as a Land Surveying Intern and has recently been licensed as a Professional Land Surveyor. He serves as a Survey Technician and assistant PM for CD&C working to manage field crews, process field crew data, and finalize deliverables.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/22 – On-Going	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 3:** Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.
01/22 – 11/22	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2:** Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.
09/21 – 03/22	**H.014747 Southern University Ravine Protection, East Baton Rouge Parish**:Mr. Mills served as a Survey Technician for this project. CD&C as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University The topographic data for this project was collected both traditionally and utilizing 3D Scanning.
08/21 – On-Going	**H.011833.5 St. Mary Street Sidewalks; Scott, LA**:Mr. Mills served as a Survey Tech for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA**: Mr. Mills served as a Survey Tech for the project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
02/21 – 07/22	**H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.

02/21 – 07/22	**H.013955 LA 961 Bride at Sandy Creek, West Feliciana Parish, LA :** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
02/21 – 07/22	**H.013956 LA 961 Bridge at Beamon Rd. Bayou Maringouin, Pointe Coupee Parish, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client. He also worked on property surveys and ROW mapping.
07/21 – 11/21	**H.009290.5 Safe Routes to Schools – LSU Sidewalk Improvement near LSU Lab School, Baton Rouge, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.
02/21 – 05/21	**H.010108 Safe Routes to Schools – Independence Sidewalks, Baton Rouge, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.
07/21 – 12/21	**H.0014560.5 LA 94 Vermillion River, St. Martin Parish, LA:** Mr. Mills worked as a LSI on this project. He has helped manage crews, processed field data, created punch-lists, worked with utilities, and helped complete the final deliverables to the client.

16. Staff Experience:

Firm employed by	**Design Civil & Construction, Inc. (CD&C)**			
Name	**Trent Norris**		Years of relevant experience with this employer	9
Title	Senior Technician		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization				
Active registration number / state / expiration date			NSPS Certified Survey Technician, Level I Boundary Certificate No.: 0418-5963 ATSSA Traffic Control Supervisor, Technician & Flagger	
Year registered		Discipline		
Contract role(s) / brief description of responsibilities			Mr. Norris serves as the firm's 3D Scanning Technician who will aide in field data collection as well as process all 3D scan data in the office and assist in any other processing to complete the submittal.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/20 – 01/21	**H014302 US 165 Lighting, Monroe, LA:** Mr.Norris served as the lead Survey Technician on this project. CD&C was a sub-consultant on this project and was responsible for topographic surveying of US 165 south of Monroe for a highway lighting improvement. The topographic data for this project was collected both traditionally and with the use of 3D Terrestrial Scanning.
01/18 – 01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA:** Mr. Norris was the #3D Scanning Technician for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415.
07/17 – 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Norris served as the firm's 3D Scanning Tech on this project by working with the scan crew in the field, post processing the scans, and extracting all of the necessary topographic data from them thru TopoDot to put into InRoads.
04/17 – 07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA:** Mr. Norris served as the firm's 3D Scanning Tech on this project by working with the scan crew in the field, post processing the scans, and extracting all of the necessary topographic data from them thru TopoDot to put into InRoads.
08/16 – 01/18	**H.011235 I-49 Verot School Road, Lafayette, LA:** Mr. Norris served as the firm's 3D Scanning Tech on this project by working with the scan crew in the field, post processing the scans, and extracting all of the necessary topographic data from them thru TopoDot to put into InRoads.
10/16 – 10/16	**H.012728.5 LA 443 Emergency Bridge Replacement, Tangipahoa Parish, LA:** Mr. Norris served as the firm's 3D Scanning Tech on this project by working with the scan crew in the field, post processing the scans, and extracting all of the necessary topographic data from them thru TopoDot to put into InRoads.
10/15 – 12/18	**H.003184.5 I-10 TX State Line-E of Coone Gully, Calcasieu Parish, LA:** Mr. Norris served as the firm's 3D Scanning Tech on this project by working with the scan crew in the field, post processing the scans, and extracting all of the necessary topographic data from them thru TopoDot to put into InRoads.
01/16 – 07/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA:** Mr. Norris served as the firm's 3D Scanning Tech on this project by working with the scan crew in the field, post processing the scans, and extracting all of the necessary topographic data from them thru TopoDot to put into InRoads.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**			
Name	**Philip Dupree**	Years of relevant experience with this employer	11	
Title	Survey Party Chief	Years of relevant experience with other employer(s)	30	
Degree(s) / Years / Specialization				
Active registration number / state / expiration date		NSPS Certified Survey Technician, Level III, Boundary Cert. No. 0799-1106 Nationwide; ATSSA Certified as Registered Flagger ATSSA Certified Traffic Control Tech & Traffic Control Supervisor		
Year registered	Discipline			
Contract role(s) / brief description of responsibilities		Mr. Dupree is the Senior Survey Party chief who will work to oversee a crew as well as aide in coordinating all crews with Survey PM to ensure field work is being completed timely and accurately.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/20 – 04/21	**H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish**: Mr. Dupree was the Senior Party Chief & Field Coordinator for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. The topographic data for this project was collected traditionally.
01/18-02/2020	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA:** Mr. Dupree is the Survey Party Chief for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415.
07/17-12/2018	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Dupree is serving as Field coordinator on this project by working specifically to set the control on the job and overseeing field crews as they work to complete the topography.
10/15-12/2018	**H.011235 I-49 South at Verot School Road, Lafayette, LA:** Mr. Dupree served as Field coordinator on this project. He resurrected the original control set on the project and oversaw the checking of it. Mr. Dupree was the field coordinator with the R/R and also the SUE contractor on the project. He oversaw all field crews and ensured that the project was completed accurately and timely.
01/16-08/2016	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA:** Mr. Dupree served as Field coordinator on this urban roadway topography project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and scan crews and completed the project accurately and on schedule.
10/16-11/2016	**H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA**: Mr. Dupree served as Field coordinator on this project. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge**,** 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete the topographic survey.
07/14/10/2015	**H.010319.5 I-110 North St. to Plank Road, Baton Rouge, LA:** Mr. Dupree served as Field coordinator on this heavily traveled Interstate project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and

	scan crews and completed the project accurately and on schedule. He also coordinated with the district and state police to oversee the rolling lane closure that was required to obtain the drainage invert data.
05/13-07/13	**H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA**: Mr. Dupree served as Senior Party Chief for this project located in West Baton Rouge Parish. The intent is to create a grade separation at the intersection of LA 1 and the R/R spur for DOW. CD&C is performing all of the topographic survey for this project including utility coordination and R/R coordination and permits so that CD&C can survey the spur and parallel line.
10/14-12/14	**H.011088.5 West Prien Lake, Lake Charles, LA**: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. This project was to provide topographic survey for a new route to be constructed. Topographic survey and DTM was required along the proposed alignment including all utilities and all drainage with the survey limits.
02/14-03/17	**H.010620 I-49 Design Build**: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. CD&C also produced ROW maps for the project. Mr. Dupree also was the lead Party Chief for the property surveys on this project.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**					
Name	**Sheelagh Brin Ferlito, PE, PTOE**		Years of relevant experience with this employer	7	
Title	Supervisor		Years of relevant experience with other employer(s)	27	
Degree(s) / Years / Specialization			B.S. / 1988 / Civil Engineer		
Active registration number / state / expiration date			PE. 0025383 / LA 09/30/2023		
Year registered	1993	Discipline	Civil		
Contract role(s) / brief description of responsibilities			CE&I 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 years of experience specified in the applicable MPR(s).
07/21 - Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, Louisiana)** Brin is the task leader for Vectura for the **Construction Engineering and Inspection** of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
02/20 – 11/21	**H.010616 DOTD I:20 LA 544 Overpass Replacement (Ruston, LA)** Brin was the project manager for the **Transportation Management Plan (TMP)** as part of a design for a bridge replacement and three roundabouts in Ruston, LA. The TMP was a **Level 2** and included evaluation of 10 Sequence of Construction Phases. Detours included rerouting traffic to other interchanges at nighttime only, rerouting traffic from I-20 to the off ramp and on ramp at nighttime only, and rerouting traffic to service roads in vicinity of the project. Brin coordinated the queue analysis with DOTD to determine when lane closures would be allowed utilizing 24-hour tube counts. She also coordinated the development of temporary traffic signal plans for this project as well.
07/19 – current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA)** Brin is the project manager for the **temporary and permanent traffic signal plans** for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by Louisiana DOTD.
03/13-08/15	**H.001609.6 CE&I for EBR Traffic Signal Systems Phase VA Construction (Baton Rouge, LA)** Brin was project **Resident Engineer** on behalf of DOTD and EBR to perform **CE&I services** for the construction of 24 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-110 fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
07/12-03/14	**EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA)** Brin was the **Project Resident Engineer** on behalf of EBR **for performing CE&I services** for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM/EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	**SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA)** Brin was the **Project Resident** Engineer for DOTD and EBR to perform **CE&I services** for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**					
Name	**Laurence Lucius Lambert, II, PE, PTOE, PTP**		Years of relevant experience with this employer	7	
Title	Supervisor		Years of relevant experience with other employer(s)	18	
Degree(s) / Years / Specialization			B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010		
Active registration number / state / expiration date			PE.0029901 / LA / 3/31/2024		
Year registered	Civil	Discipline	Civil		
Contract role(s) / brief description of responsibilities			TMP 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 years of experience specified in the applicable MPR(s).
02/21 - 03/21	**H.013256.5 I-10 ITS Scott to Lake Charles (Southwest Louisiana)** Laurence was the lead traffic engineer for a Level 2 **Traffic Management Plan** (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Vectura also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish, LA)** Laurence provided a Quality Control review of the **temporary construction and sequence of construction plans**. Laurence also provided Quality Control review of **signing and striping plans** at 30% and 60% plan sets to ensure the **roundabouts** conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
02/14 – 06/14	**H.010193 Alexandria ITS Deployment Phase I (Alexandria, LA)** Laurence was the project manager for a Level 2 **Transportation Management Plan (TMP)** as part of an ITS design.
01/14 – 07/14	**H.010719 US 90 Z Improvements (New Orleans, LA)** Laurence was the project manager for a Level 4 **Transportation Management Plan (TMP)** as part of an ITS design.
02/14 – 06/14	**H.006831 Baton Rouge ITS Deployment Phase III (Baton Rouge, LA)** Laurence was the project manager for a Level 2 **Transportation Management Plan (TMP)** as part of an ITS design.
04/13 – 09/13	**H.010138 Sunshine Bridge ITS Deployment (Ascension and St. James Parishes)** Laurence was the project manager for a Level 2 **Transportation Management Plan (TMP)** as part of an ITS design.
12/12 – 04/13	**H.010151 I-210: Cove Lane Interchange TMP (Lake Charles, LA)** Laurence was the task leader for traffic analysis of a Level 2 **Transportation Management Plan (TMP)** as part of a new interchange at Cove Lane and I-20.
04/11 - 09/11	**SPN 424-04-0032 US 90 at LA 85 Design-Build Maintenance of Traffic Plan (Iberia Parish, LA)** Laurence developed a **Maintenance of Traffic** plan that accommodated the bridge and road widening, but also maintain passage of large trucks and freight through the heavily travelled corridor crucial for agricultural goods and farming. Laurence was the Lead Traffic Engineer for one of the first design-build projects undertaken by DOTD, which included the construction of a grade separated, diamond interchange to replace the existing US 90 intersections with LA 85 in Iberia Parish to upgrade this future I-49 corridor to interstate standards.
06/10 - 10/10	**SPN 454-02-0071 I-12 Widening Design-Build Amite River Bridge to Juban Road Maintenance of Traffic Plan (Livingston Parish, LA)** Laurence was responsible for designing a **Maintenance of Traffic** plan that would keep drivers informed of real time traffic situations through a comprehensive traffic management system. Four lanes (two lanes in each direction) were to remain open during peak travel times throughout the length of the project. Temporary lane closures only occurred at night.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Reece Rodrigue, PE, PTOE, RSP1**		Years of relevant experience with this employer	3
Title	Project Traffic Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S./2013/Civil Engr.	
Active registration number / state / expiration date			PE.0042074 / LA / 3/31/2024	
Year registered	Civil	Discipline	Civil	
Contract role(s) / brief description of responsibilities			CE&I Support	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/20 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA)** Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the **Traffic Management Plan** that was also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.
01/21 – 05/21	**H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes)** Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for **measuring anticipated construction quantities and producing a cost estimate** for said quantities by using DOTD's Bid Tabulation and Cost Estimating Tool.
07/21 - Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, Louisiana)** Reece is part of the team responsible for **Construction Engineering and Inspection**. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
09/20 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** Reece is an essential design engineer, who is assisting in the production of the temporary signal design associated with the **sequence of construction** for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish)** Reece is a design engineer, who is assisting in the production of the temporary signal design associated with the **sequence of construction** for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
11/21 – 12/21	**Emergency Street Light and Traffic Sign Assessment (New Orleans, LA)** In response to the damage caused by Hurricane Ida, Reece **inspected streetlights** and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area in the City of New Orleans.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**					
Name	**Kristen Farrington, PE, PTOE, RSP1**		Years of relevant experience with this employer	2	
Title	Project Traffic Engineer		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			B.S. / 2013 / Civil Engr.		
Active registration number / state / expiration date			PE.0042074 / LA / 3/31/2025		
Year registered	Civil	Discipline	Civil		
Contract role(s) / brief description of responsibilities			TMP Support		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21 - current	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** Kristen a project engineer for a **traffic design study and traffic signal design of 19 signals** along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
02/20 – 09/21	**MOVEBR College Drive Enhancement Project (Baton Rouge, LA)** Kristen assisted with the **data collection** task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
6/19 - 2/21	**H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street (St. Landry Parish, LA)** Kristen served as project manager for a **Stage 0** study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
6/19 - 2/21	**H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road (Evangeline Parish, LA)** Kristen served as project manager for a **Stage 0** study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
04/19 – 6/21	**H.013817.1 LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA)** Kristen served as project engineer responsible for a **Stage 0** study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the **Stage 0** report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA)** Kristen was the task leader for the preparation of a **Stage 0** study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the **Stage 0** Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.

11/18 - 3/21	**H.013322 LA 3040 Feasibility / Safety Study Stage 0 (Houma, LA)** Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as **unmet demand observations and calculations**. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish, LA)** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this **Stage 0** Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 LA 74 to LA 621 (Ascension Parish, LA)** Kristen was the designer responsible for concept development, report writing, and impact analysis for a **Stage 0** study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
11/16 – 07/17	**H.001271 Cane River Bridge Church Street Route LA 1-X Environmental Assessment** Kristen was the project engineer responsible for assisting with the site visits, data organization, **analysis of permanent alternatives and traffic control alternatives**, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Ronald St. Angelo**		Years of relevant experience with this employer	<1
Title	Construction Specialist		Years of relevant experience with other employer(s)	48
Degree(s) / Years / Specialization			High School Diploma / 1975	
Active registration number / state / expiration date				
Year registered	Civil	Discipline		
Contract role(s) / brief description of responsibilities			Senior-level Construction Specialist and fulfills MPR# 7.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/03 – 04/23	**Jack B Harper Electrical, LLC (Walker, LA)** Ronnie specialized in programming traffic signal controls / ITS equipment and troubleshooting construction issues in the field such as utility conflicts and traffic signal issues. He was a project manager for numerous traffic signal related projects and oversaw a team of field technicians for signal related construction projects. He was an estimator for bidding traffic signal / ITS equipment projects. Ronnie worked extensively throughout the state of Louisiana on hundreds of local, state, and federally funded traffic signal / ITS projects, to include major metropolitan areas, such as Greater New Orleans, Baton Rouge, and Lafayette. During this time, Ronnie worked on projects that built intersections from the ground up, to include base / signal installation, signal control electrical installation, and signal termination. Read and interpreted construction plans to ensure proper installation requirements were met for span wire and mast arm installation. Extensive experience in installing all forms of traffic signals during all construction phases. Assisted site inspectors with confirming mast arm foundation locations; drawing reviews; change requests; and verifying controller data collection and timing checks.
07/75 – 01/03	**East Baton Rouge Traffic Engineering Division** Ronnie was a certified IMSA Level 1 & 2 Technician while employed at the City of Baton Rouge. Ronnie performed numerous construction tasks in relation to traffic signals within East Baton Rouge Parish. Construction included traffic signal poles, signal heads, signal wiring, vehicle detection, traffic signal controller / cabinet power service. In the earlier part of his career, the traffic signal controllers consisted of mechanical parts. As time progressed, the controller evolved to steady-state technology. In addition, Ronnie performed traffic signal tasks related to maintenance after damage from collisions or extreme weather. While employed in the city, Ronnie was tasked with maintaining over 300 signals that included DOTD intersections. Ronnie started his career at the City of Baton Rouge as a Technician, then Traffic Signal Technician, then Foreman and finally a supervisor. Ronnie was also responsible for programming traffic signal controllers while at the City.

(Add rows as needed)

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**				
Name	**David Watkins**		Years of relevant experience with this employer	<1
Title	Construction Specialist		Years of relevant experience with other employer(s)	35
Degree(s) / Years / Specialization			High School Diploma / 1978	
Active registration number / state / expiration date				
Year registered	Civil	Discipline		
Contract role(s) / brief description of responsibilities			Senior-level Construction Specialist and fulfills MPR# 7.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/06 – 02/23	**Jack B Harper Electrical, LLC (Walker, LA)** David worked extensively throughout the state of Louisiana on hundreds of local, state, and federally funded traffic signal projects, to include major metropolitan areas, such as Greater New Orleans, Baton Rouge, and Lafayette. During this time, worked projects that built intersections from the ground up, to include base / signal installation, signal control electrical installation, and signal termination. Read and interpreted blueprints to ensure proper installation requirements were met for span wire and mast arm installation. Extensive experience in installing all forms of traffic signals during all construction phases. Assisted site inspectors with confirming mast arm foundation locations; drawing reviews; change requests; and verifying controller data collection and timing checks.
03/01 – 10/06	**Dave's Electric (Denham Springs, LA)** David conducted electrical work on numerous residential and commercial job assignments. He was responsible for installing all wiring and electrical components as directed by site blueprints; installed all circuits and electrical items during multi-phasal construction projects (i.e rough-in; trim-out); conducted final walk-through inspection; completed punch list items as required. David was also assigned as site lead during most job assignments.
01/96 – 04/01	**Diamond Electric Company, Inc. (Baton Rouge, LA)** David performed duties as a Traffic Signal Technician Level I that included technical work in the construction, installation, maintenance, and repair of traffic signal systems. David also developed the ability to read and interpret blueprints during this time. Maintained electrical experience while working on roadways requiring traffic control. David also performed technical tasks to maintain and install all traffic signals, signal systems, signs, and associated traffic equipment. He delivered and set-up barricades for work zones, detours, and other areas in need of barricades; assisted with traffic control as needed. David performed related technical tasks; worked with contractors on the installation and relocation of traffic signals and components.

17. Firm Experience:

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

Firm name	**Modjeski and Masters, Inc.**			Past Performance Evaluation Discipline(s)*	Other (roadway light)
Project name	**I-20 at Garrett Road Interchange Lighting Design/CRES**			Firm responsibility (prime or sub?)	Prime
Project number	H.009201 & H.014646	Owner's name	Louisiana Department of Transportation and Development		
Project location	Monroe, LA		Owner's Project Manager	Michael Armentor, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802; (225) 379-1088; Michael.Armentor@la.gov				
Services commenced by this firm (mm/yy)	06/12	Total consultant contract cost ($1,000's)			280
Services completed by this firm (mm/yy)	08/17	Cost of consultant services provided by this firm ($1,000's)			280

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

The project involved the design of roadway lighting for the Garrett Road Interchange along Route I-20 in Monroe, LA. The design included the use of low-mast poles and underpass lighting and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M also provided construction related engineering services including shop drawing and O&M manual review and field inspections. As a separate project (S.P. H.014646), M&M provided plans, technical specifications, special provisions and illumination analysis for the rehabilitation of the existing lighting system along I-20 from US 165 to E. of Garrett Road. M&M coordinated with the City of Monroe and interfaced with the Project Team for S.P. H.007300 on the selection of LED luminaires to provide consistent lighting throughout the project limits.

PROJECT FEATURES:

- Development of a photometric analysis of the interchange and associated flyover ramps conforming to the LADOTD Illumination Standards.
- Design and development of electrical lighting plans and specifications conforming to the LADOTD Illumination Standards and the National Electric Code.

PERSONNEL: Lance V. Borden, PE, **Cullen J. Ledet, PE, Jonathan E. Gerhart, PE, Erin N. Rodgers**

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**			Past Performance Evaluation Discipline(s)*	Other (roadway light)
Project name	**I-12 @ LA 447 (Walker) Interchange Lighting/CRES**			Firm responsibility (prime or sub?)	Prime
Project number	H.012503.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Livingston Parish		Owner's Project Manager	Christopher LeBourgeois, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802; (225) 379-1088; Christopher.lebourgeois @la.gov				
Services commenced by this firm (mm/yy)	09/16	Total consultant contract cost ($1,000's)	316		
Services completed by this firm (mm/yy)	09/19	Cost of consultant services provided by this firm ($1,000's)	316		

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

The project involved the design of roadway lighting at the I-12/LA 447 Interchange in Walker, LA. The design included providing lighting for two roundabouts at the ramp terminals and was coordinated with the local government agencies as well as the electrical utility company in order to simplify future maintenance and to provide desired aesthetics. M&M provided plans & construction estimates, and construction related services including shop drawing review and field inspections.

PROJECT FEATURES:

- Development of a photometric analysis of the interchange and two roundabouts conforming to the LADOTD Illumination Standards.
- Design and development of electrical lighting plans and specifications conforming to the LADOTD Illumination Standards and the National Electric Code.
- Construction Related Engineering Support Services

PERSONNEL: Zolan Prucz, PhD, PE, Principal-in-Charge, Joseph Strenkoski, PE, Project Manager, Jonathan Gerhart, PE, Cullen Ledet, PE, Erin Rodgers, PE

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**		Past Performance Evaluation Discipline(s)*	Other (roadway light)	
Project name	**I-10: Texas State Line – E. of Coone Gully Lighting Design/CRES**		Firm responsibility (prime or sub?)	Prime	
Project number	H.003184.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Calcasieu Parish		Owner's Project Manager	Michael Armentor, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802; (225) 379-1088; Michael.Armentor@la.gov				
Services commenced by this firm (mm/yy)		01/17	Total consultant contract cost ($1,000's)	353	
Services completed by this firm (mm/yy)		ongoing	Cost of consultant services provided by this firm ($1,000's)	353	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

M&M performed a study of the existing roadway lighting system of Interstate 10 (I-10) in Calcasieu Parish at five locations for the LADOTD as part of S.P. H.003184 which calls for a portion of I-10 from the Texas state line through to the East of Coone Gully to be widened from four to six lanes of travel. The scope of the work and inquiry consisted of an illumination and roadway lighting construction feasibility study at the five specified locations. The as-designed roadway lighting systems were evaluated and compared to the proposed widened geometry to determine if the existing systems would remain in compliance with LADOTD Illumination standards. Where needed, modifications were recommended to satisfy required illumination and electrical criteria.

M&M investigated the existing roadway lighting system at five locations within the project limits.

- I-10 at the Sabine River Turnaround
- I-10 at US 90 (Toomey Road)
- I-10 at Weigh Station (Toomey)
- I-10 at LA 108 (Gum Cove Road)
- I-10 at LA 3063 (West St.)

M&M also developed final plans, specifications and cost estimates for accommodations for the future replacement of the existing roadway lighting systems at these locations and is providing construction related engineering services, including field inspections and shop drawing, as-built drawing and submittal review.

As separate projects (S.P. H.014555, H.015019, and H.015085), LADOTD has asked M&M to complete the new lighting design at I-10 @ LA US 90, I-10 @ LA 3063 and I-10 @ LA 108. The original outdated lighting system at each interchange was removed as part of the widening system and a new lighting system was agreed to be installed after the widening project was completed. M&M will provide plans, specifications, special provisions, cost estimates and illumination analysis for a complete interchange lighting system.

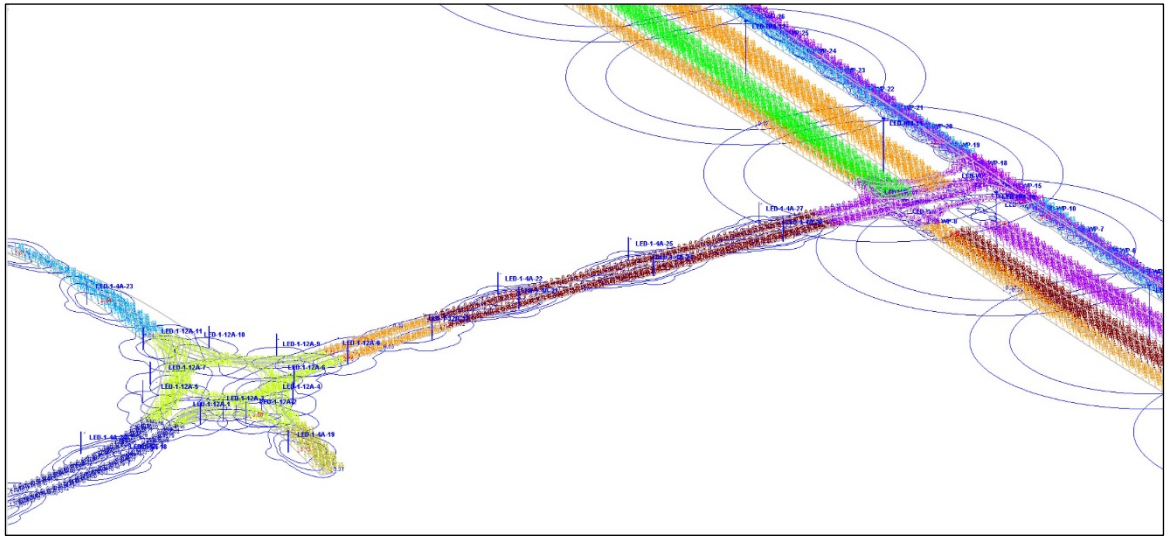
PERSONNEL: Zolan Prucz, PhD, PE, Joseph G. Strenkoski, PE, Jonathan E. Gerhart, PE, Cullen J. Ledet, PE, Erin Rodgers, PE

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**	Past Performance Evaluation Discipline(s)*	Other (roadway light)
Project name	**I-49 South @ Verot School Road Interchange Lighting**	Firm responsibility (prime or sub?)	Sub
Project number	H.011235.5	Owner's name	Louisiana Department of Transportation and Development
Project location	Lafayette Parish	Owner's Project Manager	Corey Landry, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802, (225) 379-1889, Corey.Landry@LA.GOV		
Services commenced by this firm (mm/yy)	07/18	Total consultant contract cost ($1,000's)	82
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	82

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

The proposed project limits begin at the intersection of US 90 and South Park Road to 1,300 feet south of the intersection of US 90 and Kaliste Saloom Road. The Project consists of an above grade frontage road bridge structure that traverses over I-49 South/US 90 mainline roadway and its paralleled railroad. It also includes one-way frontage roads on both sides of the mainline roadway, a two-way collector service road east of the mainline roadway, and a new alignment of Verot School Road from the interchange to the a bridge structure approximately 600 feet west of its intersection with LA 182.



M&M was responsible for all engineering services required for the completion of preliminary lighting plans and lighting construction estimates for the project area. The scope of work includes a photometric analysis on the proposed widened and realigned geometry to determine an appropriate roadway lighting system that achieves compliance to DOTD and all other applicable illumination and electrical standards. M&M also conducted a lighting design feasibility study within the project limits. In addition to a report that documents the findings and provides recommendations, the study included a photometric analysis, selected preliminary plans, and an estimate construction cost estimate. Preliminary Plans were developed in conformance with the DOTD Software and Deliverable Standards for Electronic Plans and DOTD Electrical Design Plan Standards. The cost estimate was broken down by individual pay items as defined in the 2016 Edition of the Louisiana Standard Specifications for Roads and Bridges.

PERSONNEL: Zolan Prucz, PhD, PE, Joseph G. Strenkoski, PE, Jonathan E. Gerhart, PE, Cullen J. Ledet, PE, Erin Rodgers, PE

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**		Past Performance Evaluation Discipline(s)*	Other (roadway light)	
Project name	**I-20 at Vicksburg – Electrical Design / CRES**		Firm responsibility (prime or sub?)	prime	
Project number	H.012739.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Ouachita Parish		Owner's Project Manager	Mark Bucci, P.E.	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802, (225) 379-1076, Mark.Bucci@LA.GOV				
Services commenced by this firm (mm/yy)	07/18	Total consultant contract cost ($1,000's)		250	
Services completed by this firm (mm/yy)	06/21	Cost of consultant services provided by this firm ($1,000's)		250	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

The Vicksburg Bridge is an Interstate highway bridge built in 1973 that carries I-20 over the Mississippi River. The main bridge is a steel cantilever through truss. The approaches consist of three simple through truss spans and three steel girder spans on the west side and one simple through truss span and two steel girder spans on the east side. The center span of the main bridge is 870 feet long and its vertical clearance is 60 feet from high water elevation. The Vicksburg Bridge underwent a rehabilitation consisting of performing hydro-demolition and overlay of the existing bridge deck, repairing floorbeam cracks, and adding safety enhancements to the maintenance walkways and electrical systems. The work also included design and detail of a new bearing assembly jacking system to accommodate additional transverse jacking of the trusses at Pier E-2. M&M provided electrical engineering services to provide final plans and specifications for rehabilitation of the existing electrical systems, including photometric report and replacement of roadway lighting with an LED design, replacement of navigation lighting and aerial beacons, and rehabilitation and relocation of low-voltage electrical components including monitoring equipment including monitoring equipment, MDOT equipment, river current monitoring equipment. M&M also provided construction related engineering services, including field inspections and shop drawing, as-built drawing and submittal review.

PERSONNEL: Zolan Prucz, PhD, PE, Jonathan E. Gerhart, PE, Cullen J. Ledet, PE, Joshua Rinehart, PE

17. Firm Experience:

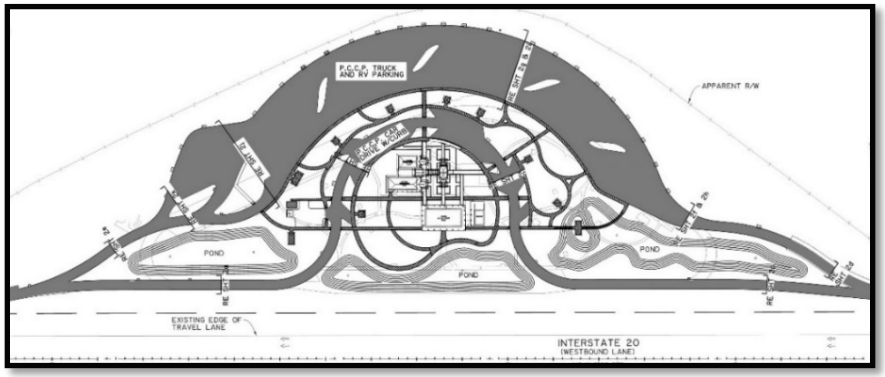
Firm name	**Aillet, Fenner, Jolly & McClelland, Inc.**		Past Performance Evaluation Discipline(s)*	Other, Bridge	
Project name	**Mound Rest Area Improvements, Route I-20**		Firm responsibility (prime or sub?)	Prime	
Project number	H.011446.5	Owner's name	LaDOTD		
Project location	Madison Parish LA		Owner's Project Manager		
Owner's address, phone, email	LaDOTD, 1212 E. Hwy Dr., Baton Rouge, LA 70802, 225-379-1739, scott.guinn@la.gov				
Services commenced by this firm (mm/yy)	11/20	Total consultant contract cost ($1,000's)		432	
Services completed by this firm (mm/yy)	08/21	Cost of consultant services provided by this firm ($1,000's)		401	

As part of LaDOTD's Statewide Facilities and Rest Area retainer contract, AFJMc is designing site improvements to the Mound Rest Area on I-20 in Madison Parish. The project consists of new acceleration and deceleration ramps/drives into the rest area, new car and truck parking facilities, site grading and drainage systems with storm water management. The project also includes general site amenities such as pedestrian walkways and a courtyard.

AFJMc, provided not only civil design services for this project but also structural and electrical designs services. The structural design includes foundation design for overhead structures such as pavilions, covered walkways and the design of wood bridges and bulkhead at pond edges. The electrical design includes converting the site to 3-Phase power, site lighting, CCTV surveillance systems, back-up generator systems, surge protection, and replacing lighting on the interstate ramps.

AFJMc tasks included development of final plans, the development of specifications, the development of cost estimates, the review of shop drawings, and the response to Request for Information (RFI) on an as needed basis when the project is complete.

Members involved: Daniel Brown, PE, Paul Comier, PE, Edie Langley, Alan Fenner



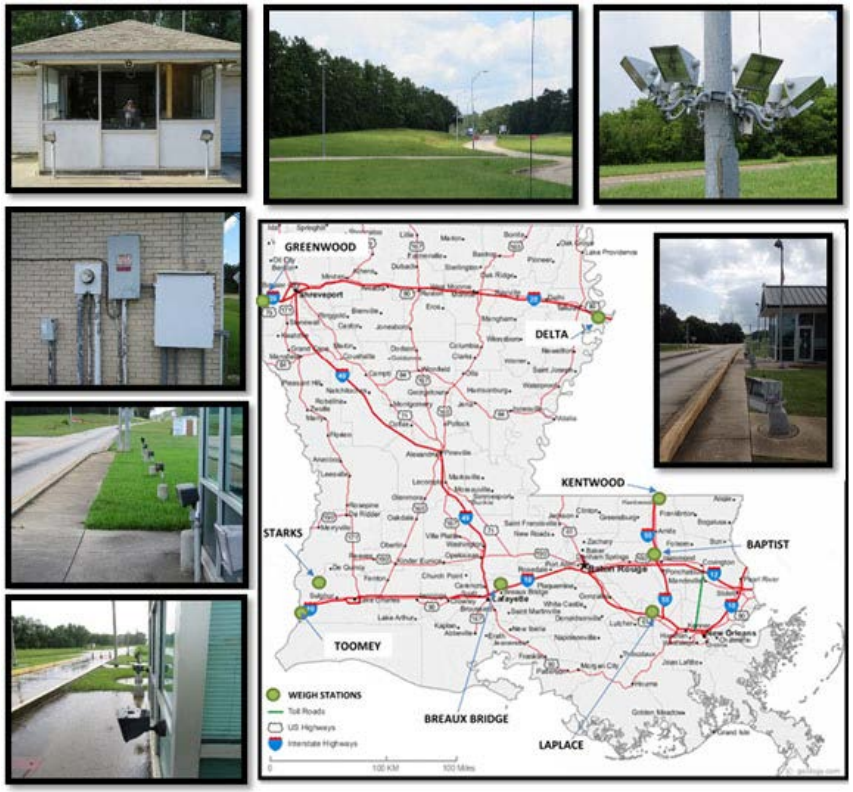
17. Firm Experience:

Firm name	**Aillet, Fenner, Jolly & McClelland, Inc.**		Past Performance Evaluation Discipline(s)*		Other (Roadway Lighting)
Project name	**Weigh Station Design, Renovation and Upgrade**			Firm responsibility (prime or sub?)	Prime
Project number	H.012182.1	Owner's name	LaDOTD		
Project location	Statewide, LA		Owner's Project Manager	Jeffery Brown	
Owner's address, phone, email	PO Box 94245, Baton Rouge, LA 70804, 225-377-7103, jeffery.brown@la.gov				
Services commenced by this firm (mm/yy)	05/16	Total consultant contract cost ($1,000's)		42	
Services completed by this firm (mm/yy)	11/16	Cost of consultant services provided by this firm ($1,000's)		42	

As part of LaDOTD's Weigh in Motion retainer contract, AFJMc was tasked to document the existing conditions of the lighting and electrical equipment for all weigh stations in the state of Louisiana. The Stationary Scales Division within the Louisiana State Police Transportation Safety Services (TSS) was managing the weigh stations during the length of the project. The existing fifteen fixed-site weigh stations were inspected and studied for upgrade and/or refurbishment needs. Two locations per site were inspected at the Greenwood, Delta, Kentwood, Baptist, LaPlace, Breaux Bridge, and Toomey locations. The Starks location only had one site.

AFJMc services included site visits to conduct assessment and inventory of all existing electrical equipment and conditions. It also included the assessment of the existing site lighting including pole location with fixture type, and exterior/site lighting control. Close coordination with LaDOTD and State Police personnel was maintained during the length project.

A report was prepared based on information derived from the condition assessment of each weigh station. The report documented all findings and provided proposed electrical system improvements for each weigh station including power upgrades, lighting at the stations and in the truck inspection parking areas.



Members involved: Robbin K. Cassity, PE, Gabriel Whitaker, Edie Langley

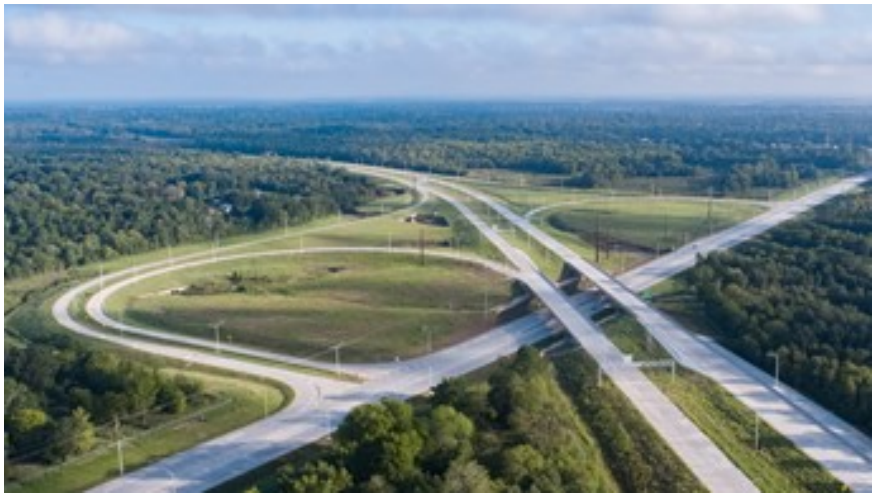
17. Firm Experience:

Firm name	**Aillet, Fenner, Jolly & McClelland, Inc.**		Past Performance Evaluation Discipline(s)*		Other (Roadway Lighting)
Project name	I-49 North			Firm responsibility (prime or sub?)	Prime
Project number	SP# H.003886 / SP# H.003496 / SP# H.003495	Owner's name	LaDOTD		
Project location	Caddo Parish, LA		Owner's Project Manager	Joe Umeozulu, PE	
Owner's address, phone, email	PO Box 94245, Baton Rouge, LA 70804 / 225-379-1386 / joachim.umeozulu@la.gov				
Services commenced by this firm (mm/yy)	12/03		Total consultant contract cost ($1,000's)		3,720
Services completed by this firm (mm/yy)	2/20		Cost of consultant services provided by this firm ($1,000's)		1,862

I-49 North is Sections J, K1 and K2. AFJMc was responsible for the preliminary and final roadway plans for the revisions to I-220, the Interchange of I-49/I-220, the Interchange at Martin Luther King Drive, the south half of the Interchange at Highway 1, the roadway from I-220 to Highway 1, Martin Luther King Drive and the drainage design, lighting, sewer relocation, and the design of five cul-de-sacs.

Members involved: Robbin Cassity, PE, Daniel Brown, PE, Paul Cormier, PE, Edie Langley, Matthew J. Wallace, PE SE, J. Daniel Thompson, PE SE

The I-49 Segment K Phase 2 Interchange with I-220 earned the regional award for "Best Use of Technology & Innovation" from the American Association of State Highway & Transportation Officials (AASHTO).
The $142 million I-49 Interchange project was also awarded the 2020 Louisiana Transportation Conference Excellence Award in the "Roadway/Bridge Construction Project over $10 Million" category.



17. Firm Experience:

Firm name	**Lazenby & Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**US 371: KCS RR Overpasses (HBI)**		Firm responsibility (prime or sub?)	Prime	
Project number	S.P.N. H.012030	Owner's name	Louisiana Department of Transportation and Development		
Project location	Webster Parish		Owner's Project Manager	Steve A. LeBlanc, P.L.S.	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245 Telephone (225) 379-1292 email: Steve.LeBlanc2@la.gov				
Services commenced by this firm (mm/yy)	12/2022	Total consultant contract cost ($1,000's)	222.3		
Services completed by this firm (mm/yy)	current	Cost of consultant services provided by this firm ($1,000's)	222.3		

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

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

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. In addition, 3D LIDAR point clouds were collected using both stationary terrestrial tripod mounted scanner and UAV scanner payload. Topographic features were extracted from the 3D point cloud such as hard surface pavement, bridge structures, traffic signs, overhead truss sign supports, guardrails, and existing traffic lighting. UAV photogrammetry was collected to assist with the QA/QC validation of the topographic survey. In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call and preparation of an existing drainage map of the project area. An existing DTM was developed using surface elevations collected and existing alignments were calculated along the US 371/I-20 corridors, including all interchange ramps.

Key personnel involved in the project include the following:

- Ronald J. Riggin, P.E., P.L.S.
- Randy C. Hammons, P.E.
- James S. Ellingburg, P.E.
- Noah J. Sampognaro, E.I.

17. Firm Experience:

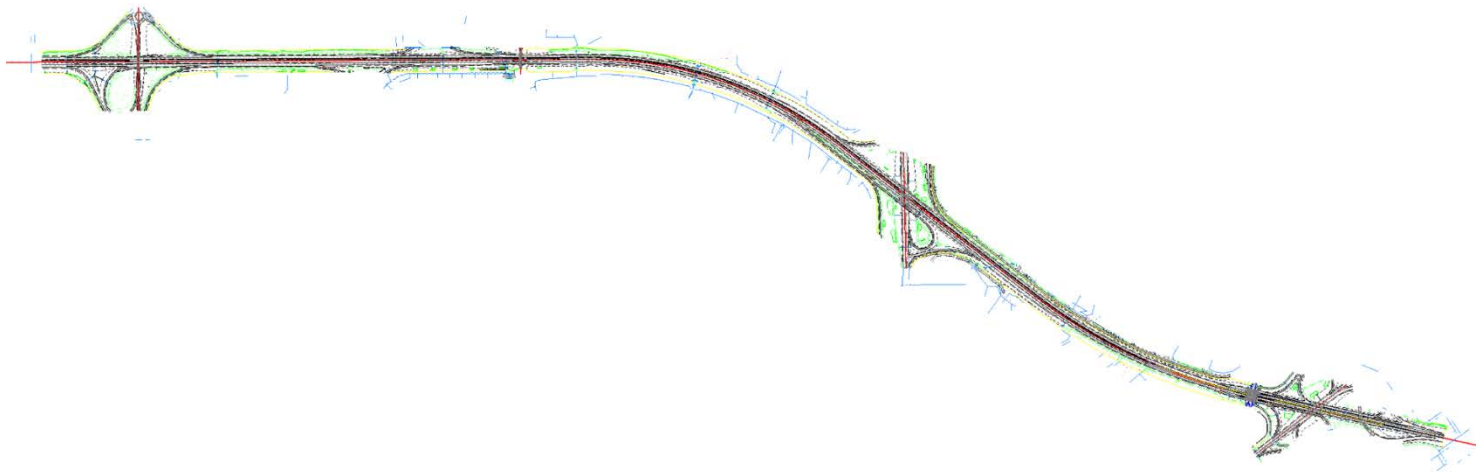
Firm name	**Lazenby & Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**I-20 Widening/Overlay (Vancil Rd to LA 34)**		Firm responsibility (prime or sub?)	Prime	
Project number	S.P.N. H.015052	Owner's name	Louisiana Department of Transportation and Development		
Project location	Ouachita Parish		Owner's Project Manager	Steve A. LeBlanc, P.L.S.	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245 Telephone (225) 379-1292 email: Steve.LeBlanc2@la.gov				
Services commenced by this firm (mm/yy)	5/2022	Total consultant contract cost ($1,000's)	393.9		
Services completed by this firm (mm/yy)	1/2023	Cost of consultant services provided by this firm ($1,000's)	393.9		

Lazenby & Associates, Inc. is the prime consultant on this project, performing topographic surveying services within the existing I-20 ROW for existing interstate widening & overlay. Approximately 20,815 feet (3.94 mi) along I-20 (urban interstate) thru West Monroe, LA is included in the topographic survey limits, including portions of 3 urban principal arterial and 1 urban major collector interchanges/overpasses.

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. In addition, 3D LIDAR point clouds were collected using both stationary terrestrial tripod mounted scanner and mobile scanning. Topographic features were extracted from the 3D point cloud such as hard surface pavement, bridge structures, traffic signs, overhead truss sign supports, guardrails, and existing traffic lighting. 360 camera images collected with the mobile LIDAR and georeferenced aerial imagery were used to assist with the QA/QC validation of the topographic survey. In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call and preparation of an existing drainage map of the project area. An existing DTM was developed using surface elevations collected and existing alignments were calculated along the I-20 corridor, interchanges and overpasses.

Key personnel involved in the project include the following:

- Ronald J. Riggin, P.E., P.L.S.
- Randy C. Hammons, P.E.
- James S. Ellingburg, P.E.
- Noah J. Sampognaro, E.I.

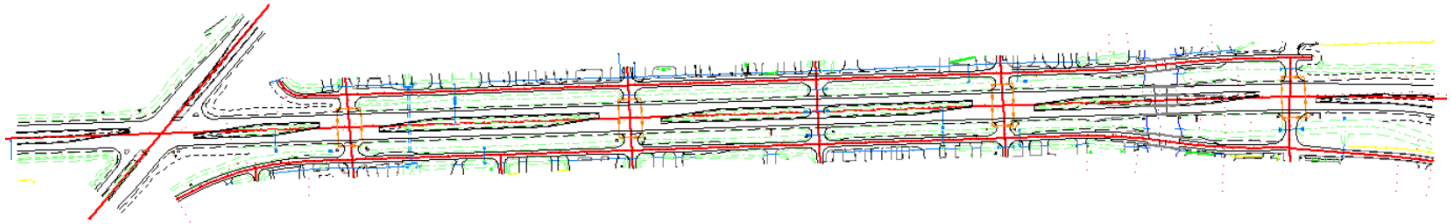


17. Firm Experience:

Firm name	**Lazenby & Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**US 165 Lighting from LA 15 (Winnsboro Rd) to Century Blvd**		Firm responsibility (prime or sub?)	Prime	
Project number	S.P.N. H.011739	Owner's name	City of Monroe (Urban System Project)		
Project location	Ouachita Parish		Owner's Project Manager	Curt Kelley	
Owner's address, phone, email	P.O. Box 123, Monroe, LA 71201 Telephone (318) 329-2210 email: lacurtis.kelly@ci.monroe.la.us				
Services commenced by this firm (mm/yy)	9/2016	Total consultant contract cost ($1,000's)	59.7		
Services completed by this firm (mm/yy)	12/2016	Cost of consultant services provided by this firm ($1,000's)	59.7		

Lazenby & Associates, Inc. is the prime consultant on this project, performing topographic surveying services within the existing US 165 ROW for the design of roadway lighting improvements. Approximately 5,100 feet along US 165 (urban principal arterial) located in Monroe, LA is included in the topographic survey limits.

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. Georeferenced aerial imagery was used to assist with the QA/QC validation of the topographic survey. In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, and locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call. An existing DTM was developed using surface elevations collected and existing alignments were calculated along the US 165 corridor including all side and frontage roads.



Key personnel involved in the project include the following:

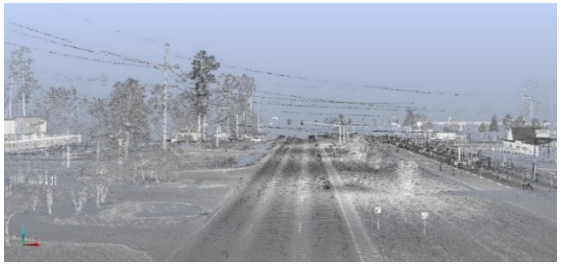
- Ronald J. Riggin, P.E., P.L.S.
- Randy C. Hammons, P.E.
- James S. Ellingburg, P.E.
- Noah J. Sampognaro, E.I.

17.Firm Experience:

Firm name	**Civil Design & Construction, Inc.**		Past Performance Evaluation Discipline(s)*		Survey
Project name	**US 190 Superstreet**		Firm responsibility (prime or sub?)		Sub
Project number	H.005733.5	Owner's name	LADOTD		
Project location	St. Tammany Parish, LA		Owner's Project Manager	Josh Harrouch	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802 (225) 379-123 Joshua.harrouch@la.gov				
Services commenced by this firm (mm/yy)		01/16	Total consultant contract cost ($1,000's)		N/A
Services completed by this firm (mm/yy)		08/16	Cost of consultant services provided by this firm ($1,000's)		$207

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance e evaluation discipline(s) this project is being used to represent.

Project Description: This project was the topographic survey of US 190 in Covington. The survey limits were along a portion of the existing routes of US 190, Holiday Square Frontage Road, US 190 Service Road, Holiday Blvd., Holycrest Plaza Driveway, Louis Prima Drive, Park Place Drive, Lake Drive, Crestwood Blvd., 9th Avenue, Three Rivers Road, River Highlands Blvd., Harrison Ave., Maple Ridge Ave., North 12th Street, Sunshine Ave., North 6th Street, Riverside Drive, and North 2nd Street and is approximately 2.9 miles in length.



CD&C's Role: CD&C's role was to provide the complete topographic survey and drainage map for this project including all utility coordination. The survey begins at the intersection of US 190 and Holiday Square Frontage Road. From this point, the survey proceeded in a northerly direction along US 190 for approximately 2.9 miles to a point that is 700 feet South of Intersection of US 190 and E. Boston St. in Covington, LA. The width of the survey and DTM extended to the Western Edge of Pavement to Eastern Edge of Pavement along US 190 and tied in with the existing topographic features picked up on the previous survey done under H.011137.5 and H.011152.5 (Interstate 12 Survey). This also included cross sectioning a portion of the Abita River in the project area. All topographic survey elements were performed in accordance with the latest LADOTD Location and Survey Manual and conformed to the latest standard practices/procedures. All deliverables were in LADOTD required formats. **3D Terrestrial Scanning** was used in conjunction with traditional means and methods to complete this project.

Members Involved: CD&C employees involved in the project included Karla Weston, PE, Ralph Burgess, PLS, Survey Manager; Christopher Ballard, PLS Survey Project Manager; Philip Dupree, Party Chief; Jacob Stoehr, Party Chief; Trent Norris, 3D Scanning Technician; John Ewing, Survey Technician.

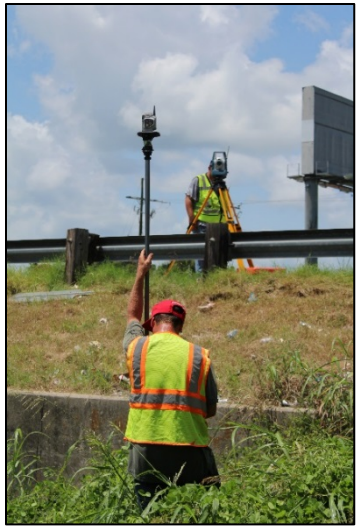
Performed in LA: 100%

17. Firm Experience:

Firm name	**Civil Design & Construction, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**I-10: LA 415 to Essen Lane on I-10 and I-12**		Firm responsibility (prime or sub?)	Sub	
Project number	H.004100	Owner's name	LADOTD		
Project location	West and East Baton Rouge, LA		Owner's Project Manager	Nicholas Olivier	
Owner's address, phone, email	1201 Capital Access Rd, Baton Rouge, LA 70802 / 225-379-1232 / Nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	01/18	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	04/19	Cost of consultant services provided by this firm ($1,000's)		$296	

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

Project Description: This project is located in West Baton Rouge and East Baton Rouge Parishes in the cities of Port Allen and Baton Rouge, LA. A complete Topographic survey including all utilities (ASCE 38-02, QL "B") with depths and all drainage is required, along with Finish floor elevations of all buildings that fall within the survey limits. The survey begins 1,500 feet West of the western most entrance/exit ramps of the LA 415 and I-10 Interchange. From the I-10, I-12 split the survey shall proceed in southerly and easterly directions along the existing main alignment of I-10 for approximately 1.5 miles & I-12 for approximately 1.5 miles to end the route limits.



CD&C's Role: CD&C as a sub-consultant on this project was responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415. **This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.**

Members Involved: Karla E. Weston, P.E.; Ralph Burgess, PLS, Christopher Ballard, PLS; Phil Dupree, Party Chief; Jacob Stoehr, Party Chief; Trent Norris 3D scanning technician; John Ewing, Survey Tech;

Performed in LA: 100%

17. Firm Experience:

Firm name	**Civil Design & Construction, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**US 165 Lighting**		Firm responsibility (prime or sub?)	Sub	
Project number	H.014302.5	Owner's name	LADOTD		
Project location	Ouachita Parish, LA		Owner's Project Manager	Michael A. Armentor, P.E.	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802/225-379-1088/Michael.Armentor@la.gov				
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	02/21	Cost of consultant services provided by this firm ($1,000's)		$144	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance e evaluation discipline(s) this project is being used to represent.

Project Description: This project performed topographic survey utilizing both traditional means and methods as well as 3D terrestrial scanning in Ouachita Parish. The project began at the intersection of Charleston Drive and US 165 and continued North until the intersection of La 15 and US 165. The survey limits extended 500 feet from the intersection of US 165 and the major side street along LA 15, Ticheli Rd, Dellwood Dr., Richwood Road 1/Martin Luther King Dr., and Richwood Road 2. This project is approximately 4 miles in length.

CD&C's Role: CD&C's role was to provide a limited topographic survey specifically for electrical lighting design. In addition, since most of the project limits are wide, the topographic data for this survey was collected through a combination of conventional ground survey and Terrestrial LiDAR data collection methods. Specified project limits to include the area between the established apparent right-of-way for the width of the project.

Members Involved: CD&C employees involved in the project included Karla Weston, PE, Ralph Burgess, PLS, Survey Manager; Christopher Ballard, PLS Survey Project Manager; Scott Benton, 3D Scanning Technician, Trent Norris, 3D Scanning Technician, Philip Dupree, Party Chief; Jason Stoehr, Party Chief;

Performed in LA: 100%

17. Firm Experience:

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**EBR Computerized Traffic Signal, PH VB**		Firm responsibility (prime or sub?)	sub	
Project number	H.007160	Owner's name	DOTD		
Project location	East Baton Rouge		Owner's Project Manager	Desmond Sam, PE	
Owner's address, phone, email	8100 Airline Highway, Baton Rouge, LA 70815, (225) 231-4123, Desmond.Sam@LA.GOV				
Services commenced by this firm (mm/yy)	01/21	Total consultant contract cost ($1,000's)		603.989	
Services completed by this firm (mm/yy)	current	Cost of consultant services provided by this firm ($1,000's)		93.368	

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

Vectura is a sub-consultant to provide traffic signal equipment inspection for 24 traffic signals under the following scope:

- Signal Equipment Inspection (2 visits per intersection), Tracking the Sampling and Testing of required Traffic Signal Materials / Attend and Review Fiber Optic Test Results
- Coordinate Review and Approval of all Shop Drawings
- Provide Traffic Signal Support Services / Troubleshoot traffic signal equipment related problems such as foundation / utility conflicts / Field visits (10 months)
- Assist in preparing Change Orders for DOTD / City Parish (2 Separate Forms)
- Attend Monthly Progress Meetings Assist with Monthly Progress Meeting Agenda & Minutes (10)
- Compile As-built Plans from Contractor
- Final Inspection Field Visit to all intersections / Assist with developing punch list / Final Field Visit verification

Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, and Reece Rodrigue (100% performed in Louisiana)

17. Firm Experience:

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**Belle Chasse Bridge & Tunnel Replacement PPP**		Firm responsibility (prime or sub?)	sub	
Project number	H.004791	Owner's name	DOTD		
Project location	Belle Chasse, LA		Owner's Project Manager	Nickolas Olivier, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1133, Nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)		unknown	
Services completed by this firm (mm/yy)	current	Cost of consultant services provided by this firm ($1,000's)		211.890	

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

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

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

Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, and Reece Rodrigue (100% performed in Louisiana)

17. Firm Experience:

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Category(ies)*	Traffic	
Project name	**I-10 ITS Scott to Lake Charles**		Firm responsibility (prime or sub?)	sub	
Project number	H.013256.5	Owner's name	DOTD		
Project location	I-10 (District 07)		Owner's Project Manager	Roy Esteven, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-2527, Roy.Esteven@LA.gov				
Services commenced by this firm	01/21	Total consultant contract cost ($1,000's)		unknown	
Services completed by this firm	03/21	Cost of consultant services provided by this firm ($1,000's)		$20,162	

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

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

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

Personnel Utilized on this project: Laurence Lambert, Brin Ferlito, Reece Rodrigue, & Kristen Farrington (100% performed in Louisiana)

18. <u>Approach and Methodology:</u>

Provide a description of how the work will be performed and provide the proposed project schedule. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. **If more than four pages are included, all pages after the fourth page will not be evaluated**.

If the consultant has information it believes is proprietary, label it accordingly.

Modjeski and Masters has extensive experience in LADOTD roadway lighting design projects and is well versed in the tasks required for contract management, design and construction engineering services. A typical design and construction project schedule are shown in the tables below.

Contract Management Task List
Contract Administration
Task Order Development
Sub-Consultant Coordination
Other Consultant Coordination (if needed)
Meeting Minutes
Monthly Invoicing (using latest format)
Written Monthly Reporting
Budget Monitoring
Contract Time Monitoring

Design Project Task List
Notice To Proceed (NTP) Issued
Design Kick Off Meeting
Initial Site Visit
30% Design Submission
60% Design Submission
95% Design Submission
98% Design Submission
100% Design Submission
Bid Support
Bid Analysis
Project Closeout

Construction Project Task List
Notice To Proceed (NTP) Issued
Pre-Construction Meeting
Submittal Review / RFI Response
Site Visit #1 – Review Staked Pole Locations
Site Visit #2 – Review Foundations & Trenching
Site Visit #3 – Review Pole & Luminaire Installation
Site Visit #4 – Review SPC Orientation & Components
Site Visit #5 – Review Wiring Installation
Site Visit #6 – Final Inspection
Review O&M & As Builts
Project Closeout

Modjeski and Masters will respond to the initial request from the LADOTD Project Manager with a proposal within two weeks. The proposal will consist of a scope of work document as well as proposed hours to complete the tasks in the scope of work. A standard hours spreadsheet consisting of standard tasks has been used successfully on previous proposals and will continue to be used to develop hours. M&M has partnered with two firms to provide any surveying required for the lighting task orders. Lazenby & Associates will perform surveying tasks in northern Louisiana while Civil Design & Construction will provide coverage in southern Louisiana. We also have an additional electrical and structural design support subconsultant Aillet, Fenner, Jolly, and McClelland, Inc. (AFJMc). AFJMc will be utilized for electrical design support and for design of structural supports on bridges. Vectura Consulting Services Inc. will utilize their experienced PTOEs to develop any required transportation management plans for each project. If needed, subconsultants will be consulted during the proposal phase to obtain their requirements and hours and will be included in the overall proposal submitted by M&M.

A design kickoff meeting and initial site visit will be initiated and led by Modjeski and Masters after the NTP has been received from the LADOTD Project Manager. Invitations will be sent to all stakeholders in the project which typically consist of LADOTD Headquarters and District personnel, representatives from the affected Parish/Local Government, utility company representatives, as well as any required subconsultants. M&M will provide a summary of the project during the kickoff meeting as well as solicit any preferences for the lighting design as it pertains to maintenance or equipment selection from the local government representatives and establish the schedule for the project. At the initial site visit, existing field conditions will be investigated and existing equipment affected by the project will be identified. M&M will issue meeting minutes from the kickoff meeting and initial site visit. Throughout the design of the project, Modjeski and Masters will hold additional meetings and site visits as agreed upon in the task order.

Following the initial site visit the design team will acquire available As-Built drawings from the local Parish, City/Town or LADOTD headquarters. If a survey is required in the task order either one of our subconsultants will conduct a full survey detailing existing locations of electrical equipment, utilities, traffic signals and roadway signs along with geographic and roadway features. Preliminary plans will be procured from the Roadway designer when available and used to develop preliminary locations for new equipment, as well as identify existing equipment to be removed or any existing equipment that may require relocation due to new roadway geometry. If required by the task order, M&M will develop a concept for the lighting design detailing the approach for the project, locations where new lighting or provisions for new lighting will be installed, and existing equipment to remain in use. This concept will be provided to the Project Engineer for approval before photometric analysis and plan development begins.

After the design concept is solidified, a preliminary photometric analysis will be developed using Visual lighting software. Preliminary roadway geometry will be used to place calculation zones and proposed light poles in accordance with ANSI/IES RP-8 and the LADOTD Highway Lighting Design Guide. IES files will be used to input proposed luminaire models utilizing a light loss factor (LLF) of 0.7. Depending on roadway geometry, calculations zones are designed to differentiate lighting levels in specific locations such as roadways, interstates, ramps, roundabouts, and intersections. Proposed light pole locations will be designed to conform to average lighting levels and uniformity levels detailed in the LADOTD Highway Lighting Design Guide. Light pole mounting heights will be determined by roadway type, as specified in the Design Guide and light pole locations will be determined so that clearances from roadway lanes or curbs, as specified in the Design Guide, are maintained.

After a system which meets all forementioned requirements is achieved, pole locations will be checked with the FAA to ensure the lighting system meets all FAA requirements. A photometric report will be created which includes plan layout sheets showing proposed pole locations identified via station numbering and calculation zones showing foot-candle lighting levels. A photometric statistics sheet will be included detailing average illuminance levels and uniformity ratios for each calculation zone along with the requirements used during design. Cutsheets for proposed luminaires will also be included in the report. During the remainder of the project, the photometric analysis will be revised as necessary to reflect any changes required as a result of review comments or design changes. Photometric reports are provided at each submission stage beginning at 60% Final Plans.

Lighting plan development typically will not begin until the overall project reaches the final plan stages. This schedule helps to eliminate substantial redesign that would result from major roadway geometry changes during preliminary design phases. M&M will procure final plan DGN files from the roadway designer to use in lighting plan sheet development. Lighting plan sets typically begin with Electrical General Requirements which detail project specifics such as scope of work, coordination, submittals, identification, and testing requirements. Followed by project schedules for conduits, luminaires, and quantities. If applicable, removal sheets will be developed detailing the locations where equipment is to be removed, as well as removal and disposal methods. LADOTD standard pay items will be used to quantify removal quantities.

Lighting layout sheets will be developed by overlaying electrical equipment onto roadway plan layout drawings to detail proposed locations of light poles, junction boxes, conduit runs, duct runs and service points. Riser diagrams will be provided to detail the number of poles connected to each controller and general conduit routing to the light poles. Electrical schematics will be developed to detail wiring connections from the incoming service conductors to the photocontrol device and individual lighting circuits. All applicable LADOTD Roadway Lighting (RL) details will be modified as necessary and added to the plans.

If needed, additional details will be included for items not covered by standard LADOTD RL details. If light poles or provisions for future light poles are to be installed in a concrete median barrier, median barrier pole foundation details showing electrical equipment installed at each pole location will be provided.

Detailed technical specifications will be developed to supplement the standard specifications and will include descriptions for all electrical equipment required on the project along with two manufacturers and technical specification pay item numbers. All Microstation DGNs will be run through CadConform software prior to each submittal and uploaded with properly indexed attributes to the project folder on ProjectWise. Plan sets, completed to the required level as detailed in the task order, will be provided along with ControlCAD reports at each submission stage beginning at 30% Final Plans. Between submittal stages, M&M will continue coordination with other designers to identify and eliminate cross-discipline issues, specifically allowable spacing for pole foundations on median barriers and bridges, interference with sign locations, and interference with existing or new utilities.

In conjunction with plan development, calculations will be performed to determine sizing and ratings of new equipment. Circuit calculations will be used to determine wire sizing based on load, wire type, overcurrent protective device ratings, and current carrying conductor and ambient temperature derating factors, according to the National Electric Code (NEC). Voltage drop calculations using the impedance formula from the NEC will be performed for all circuits, and conductors will be upsized as necessary to limit total voltage drop on any circuit to a maximum of 5%. After wire sizing is complete a conduit fill calculation will be conducted using the LADOTD standard of 25% maximum fill. Short circuit calculations are developed for all circuit breakers to determine the minimum interrupting ratings. Required interrupting ratings will be listed in the equipment descriptions for applicable items. A preliminary arc flash analysis will be performed using SKM in accordance with NFPA 70E. Additional structural calculations will be performed to determine the low mast pole foundation depth as required.

A cost estimate will be prepared for each submission beginning at 60% Final plans. Cost estimates will be organized and separated by LADOTD standard pay items. Using pay item costs from prior LADOTD lighting projects along with historical electrical industry data, item costs will be determined from the most recent and most applicable bid prices available. If information from previous bid prices is not adequate for determining an acceptable estimated cost, further research will be conducted to obtain a reliable estimate.

Prior to all submissions, all materials will be thoroughly checked in accordance with the M&M QC/QA policy and the LADOTD Bridge Design Section policy on QA/QC. Plans, calculations, photometric reports, and cost estimates will be checked for design elements by personnel other than the Designer, also known as the Design Checker. Changes to design and detailing will be backchecked and corrected by the Designer and Detailer respectively and verified by the corresponding checker. In addition to the QC/QA process, the design will be reviewed in the field during a design site visit and a Google Earth overlay will be created to aid in the review process. This process ensures that all submission materials provided by M&M are of high quality and correctness. M&M will provide the Consultant Submittal QA/QC Certification Forms “Appendix D” and “Appendix I” signed by the team leader and the design team.

During the bidding phase M&M will provide support and assistance by responding to contractor questions posted in Falcon. If a plan revision is required, M&M will create revised plans per LADOTD standards, marking all plan changes with a revision bug, and update affected items shown on the photometric report and cost estimate. Once the bids have been opened, M&M will perform a bid analysis comparing all contractor bid prices per pay item to the design cost estimate and inform the LADOTD project manager of any significant discrepancies. After the bid analysis is complete, the design project will be closed out and final invoicing will occur.

At the beginning of the construction process, M&M will lead the lighting portion of the pre-construction kickoff meeting lead by the construction project engineer. During the meeting M&M will answer any initial contractor questions and describe the submittal review process. Meeting minutes will be created and distributed following the meeting.

M&M will review submittals in a timely manner according to the submittal requirements section of the LADOTD Standard Specifications. Submittal Logs have been developed and maintained for previous projects to track when submittals are received, returned, the status of all items and the percentage of items that are approved. M&M will review each submittal for proper formatting, ensuring no highlighting is used and contractor stamps and item numbers are provided on all submittal sheets. Submittal information will be checked against the requirements detailed on the plans and stamped approved or returned for corrections. If a submittal is returned for corrections the reviewer will mark the submittal sheets in red pointing out the incorrect or missing information.

M&M will review and provide responses to contractor RFI's received during construction. If an RFI results in issuing of a change order, M&M will develop revised plans, photometric analysis and reports, calculations, cost estimates and quantities, as applicable per the change. Change order plans will be developed per LADOTD standard change order procedures, marking all revisions with the triangular change order bug.

Throughout construction M&M will conduct field visits to observe the status of construction and meet with the contractors on site. Field visits will typically be scheduled following a major construction milestone or if the contractor is having an issue that requires investigation. Typical major construction milestones are detailed in the Construction Project Task List table shown on the first page of this section. By visiting the site after each major step in the construction process M&M will have the opportunity to correct any issues witnessed before the next construction step begins. A site visit report detailing the construction progress and any observed deficiencies which require contractor action will be provided after each site visit. The contractor will provide M&M information on the utility service, final conductor lengths and routing, for use in the final arc flash analysis. This analysis will allow M&M to provide the contractor the required information for the arc flash label as required by NFPA 70E.

When the contractor notifies M&M that their work is complete M&M will conduct a final acceptance inspection. Final acceptance inspection will include verification that all equipment has been installed correctly and is functioning properly and final dressing has been completed at all locations. A punch list will be created and sent to the project engineer detailing items requiring correction before final acceptance will be granted.

Following the completion of the final acceptance inspection M&M will review the O&M Manual, submitted by the Contractor, verifying that equipment information provided matches electrical equipment installed and the included As-Built drawings properly detail all changes made during construction and field conditions observed during final acceptance inspection. The O&M manual will be turned over to the local entity who will take ownership and provide maintenance of the newly installed roadway lighting system. Construction project closeout occurs after all documents have been uploaded to ProjectWise and final invoicing has occurred.

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) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Modjeski and Masters, Inc.		**S.P. 700-66-0486 / 440000668**	**Engineering Services for Bridge Preservation Retainer Statewide**	
	Bridge	H.009479	West Larose Vertical Lift Bridge Rehabilitation - Supplement No. 2	$0
	Bridge	JN 3144	Expert witness services in bridge design, construction, repair and forensic analysis	$273,414
		Retainer Contract 4400002538	**Engineering Services for Bridge Preservation Statewide**	
	Bridge	H.010882.5	LA 18: 4th Street Bridge Rehabilitation (Supplement No. 2) Construction Services Jefferson Parish	$0
	Bridge	H.010882.6	4th Street Bridge Rehabilitation Paint (Supplement No. 3) Route LA 18	$3,000
		Retainer Contract 4400005395	**Construction Engineering and Inspection with Painting Statewide**	
	CE&I/OV	H.011705.6	US 11 Lake Pontchartrain Bridge Rehabilitation - Ph2, Sup1	$131,229
	CE&I/OV	H.011494.6	US 90 Atchafalaya River Bridge Rehabilitation	$0
		Retainer Contract 4400004921	**Complex Bridge Rating (on-system trusses and other complex bridges) Statewide**	
	Bridge	H.009859.5	Load Rating of 14 Complex Bridges	$257,576
		Retainer Contract 4400005774	**Bridge Preservation Statewide**	
	Bridge	H.001234.5	Port Allen Canal Bridge	$64,231
	Other (Roadway Lighting)	H.010601.6	I-10: LA 328 to LA 347 - CRES	$44,879

Modjeski and Masters, Inc.	Other (Roadway Lighting)	H.011137.5	I-12: LA 1077 to US 10 Roadway and Navigation Lighting	$35,452
		IDIQ Contract 4400012382	**Bridge Preservation Statewide**	
	Bridge	H.011705.6	US 11: Lake Pontchartrain Bridge Rehab Phase 2 (HBI) Sup1	$0
	Bridge	H.013193.6	US 61: Thompson Creek Bridge - Construction Svcs. Rehabilitation and Replacement	$804
	Bridge	H.003144.6-2	Luling Bridge Cable Stay Replacement Project	$331,253
	Other (Roadway Lighting)	H.011235	Subconsultant: I-49 South at Verot School Road - Lighting	$32,989
	Other (Roadway Lighting)	H.004791	Subconsultant: Belle Chasse B7T Replacement P3 - Electrical and Structural	$22,870
		IDIQ Contract 4400017263	**Bridge Preservation Statewide**	
	Bridge	H.010603.6	I-20 Mississippi River Bridge at Vicksburg - Monitoring	$0
	Other (Roadway Lighting)	H.013866.6	I-12: LA 21 to US 190 Navigation Lighting & Roadway Lighting	$59,280
	Other (Roadway Lighting)	H.003184.6	I-10: Texas State Line - E. of Coone Gully - CRES	$53,971
	Bridge	H.011485.6	LA336-1: Bayou Teche Bridge Rehabilitation	$77,027
	Other (Roadway Lighting)	H.012889.5	I-20 Rehabilitation - Roadway Lighting (Pines Road to I-220)	$103,858
	Bridge	H.000263.5	Chef Menteur Pass Bridge & Approach	$27,466
	Bridge	H.009859.5	Prien Lake Bridge Structural Rating	$18,259
	Bridge	H.004420.5	Barataria Preliminary Fender Design	$2,120
	Bridge	H.014280.5	Bayou Ramos Bridge Girder Study	$37,975
	Bridge	H.014673.5	I-49 US 165 Debonded PPC Girder Rehab	$0
	Bridge	H.014587	LA 302: Kerner Ferry Bridge Repairs PH 2 - Constr Support	$68,714
	Bridge	H.013946.6	Sunshine Bridge Fender Construction - 2021	$28,038
	Bridge	H.009859.5-2	Load Rating of two existing bridges	$152,416
	Bridge	H.004420.5	Bayou Barataria Bridge at Jean Lafitte - Supp 1 and 2	$0
	Bridge	H.014406.6	Houma Navigation Canal Swing Bridge - Electrical Repair CRED	$24,606
	Bridge	H.014673.5-2	NSFRP Specification Review	$1,336
	Bridge	H.014465.5	Perry Bridge Rehabilitation - Final Design	$111,591
	Bridge	H.004647.6 (T.O. 1)	I-20 MS River Bridge at Vicksburg, - Monitoring	$119,313
	Bridge	H.015028.6	Bayou Barataria Bridge MB Replacement - Phase I	$152,630
	Bridge	H.001234.6	LA 1 Port Allen Bridge - Geotech Settlement Remediation	$158,024
	Bridge	H.010882.6	LA18: 4th Street Bridge Rehabilitation Construction Support	$55,115
	Bridge	H.009479.6	West Larose Lift Bridge Rehabilitation - Const Support	$44,616
	Bridge	H.015217.5	I-10 Atchafalaya Basin Speed Enforcement PH2	$2,457
	Bridge	H.011705.6	US 11 Lake Pontchartrain Bridge Rehabilitation - Ph2	$101,576

Modjeski and Masters, Inc.	Bridge	H.004100	Subconsultant: LA 415 to Essen Lane on I-10 and I-12 CMAR RCP Plans	$495,590
	Bridge	H.001234.6	LA 1: Port Allen Canal Bridge Replacement - Phase 1 CRES	$43,302
		IDIQ Contract 4400020063	**Electrical Services Statewide**	
	Bridge	H.014212.6	I-10 Atchafalaya Bridge Navigational Lights Repl	$53,247
	Other (Roadway Lighting)	H.014646	I-20: US 165 to Garrett Road Lighting	$214,017
	Other (Roadway Lighting)	H.014555.5	I-10 at LA109 Interchange Lighting (Toomey)	$157,679
	Other (Roadway Lighting)	H.015019.5	I-10 at LA3063 Interchange Lighting (Vinton)	$159,747
	Bridge	Contract 44-20156 H.011965.6	Subconsultant: LA 47 IWGO Bridge Rehab CRES	$176,252
		IDIQ Contract 4400014317	**Painting Inspection and Environmental Monitoring with Construction Engineering and Inspection - Statewide**	
	CEI/OV	H.011487.6	LA 182: Berwick Bay Bridge Rehabilitation	$2,765,766
		IDIQ Contract 4400024187	**Bridge Preservation Statewide**	
	Other (Roadway Lighting)	H.015504.5	CCC Decorative Lighting	$311,772
	Bridge	Contract 44-05673 H.011235.5	I-49 South @ Verot School Road	$147,439
		IDIQ Contract 4400021593	**Bridge Load Rating Services Statewide**	
	Bridge	H.009859.5	Bridge Load Rating (Task Order 1)	$3,592,058

Lazenby & Associates, Inc.	Bridge	4400025025 (L&A, Inc. 22E048.00)	Infrastructure Investing & Jobs Act (IIJA) Off-System Bridge Program – District 05 (13 Off-System Bridge Structures) (2% Complete)	$1,718,495
	Roadway	4400010428 H.004774.5 (L&A, Inc. 17E051.00)	Kansas Lane-Garrett Road Connector & I-20 Improvements, Ouachita Parish (Road Design-Urban & Road Design-Controlled) (98% Complete)	$144,765
	Survey	**4400015236 (L&A, Inc. 18S053.00)**	**IDIQ Contract for Topographic Surveys – Statewide (District 04, 05, 08 & 58) No Active Task Orders At This Time**	
	Survey	**4400017710 (L&A, Inc. 19S056.00)**	**IDIQ Contract for Topographic Surveys – Statewide No Active Task Orders At This Time**	
	Survey	**4400019714 (L&A, Inc. 20S038.00)**	**IDIQ Contract for Hydrographic Surveys - Statewide (Districts 04, 05, 08 & 58)**	
	Survey		T.O. #2 – Hydrographic Surveying Services – Statewide (Districts 04, 05, 08 & 58) (0% Complete)	$88,838.00
Aillet, Fenner, Jolly, and McClelland, Inc. .		**SP 700-99-0436 SP 700-99-0444 FAP # SRS-9907(518)**	**Retainer Contract for Safe Routes To School Local Road Safety Program Dist. 04, 05, 08 & 58**	
	Road	H.006618	High School Drive Sidewalk Improvements, Vernon Parish	$3,606
	Road	H.006619	Louisiana Avenue Sidewalk Improvements, Vernon Parish	$0
		Contract Nos. 4400011225 & 4400012382	**Sub-Consultant to Huval & Associates Retainer Contract for Bridge Preservation Engineering Svcs Statewide, IDIQ Contract for Bridge Preservation**	
	Other	H.010000.5-2	US 171 Bridge Navigational Lighting, Lake Charles, LA	$9,962
		Contract No. 4400016477	**IDIQ Contract for Statewide Facilities and Rest Area Engineering Services, Statewide**	
	Other	H.972448.1	DOTD Central Repair Shop (Heavy Repair Shop Addition) Task Order 3	$7,480
	Other	H011446.5	Mound Rest Area, Madison Parish	$15,559
	Road	H.010616.5 Contract No. 44-17293	Sub-Consultant to Neel Schaffer I-20/LA544 Overpass Replacement	$9,606

Civil Design & Construction, Inc.	Surveying	4400017091/ TO-3	LWI Statewide Modeling R5 – Task Order #3	$89,482
	Surveying	H.011833.5	St. Mary Street Sidewalks	$3,236
	Surveying	H.011235.5	I-49 South @ Verot School Rd	$198,880
	Surveying	H.011235.5	I-20: UPRR Overpass	$317,022
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	$124,583
	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	$15,068
	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	$147,225
	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	$47,412
	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
	Traffic	H.012030.5	KCS RR Overpasses HBI	$28,026
	ITS	H.011504.5	Alexandria ITS Phase 2	$14,305

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

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.
ion blank. Any information included in this section will be redacted if not required by the advertisement.

20. <u>Certifications/Licenses:</u>

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

Certificate of Completion

presented to

Brin Ferlito

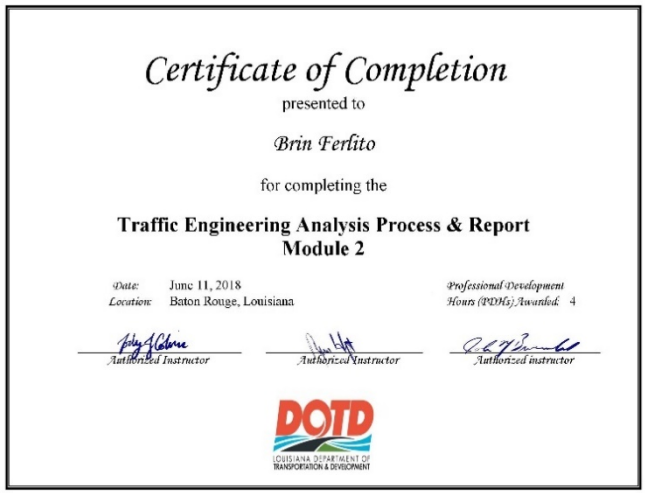
for completing the

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

Brin Ferlito

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

Brin Ferlito

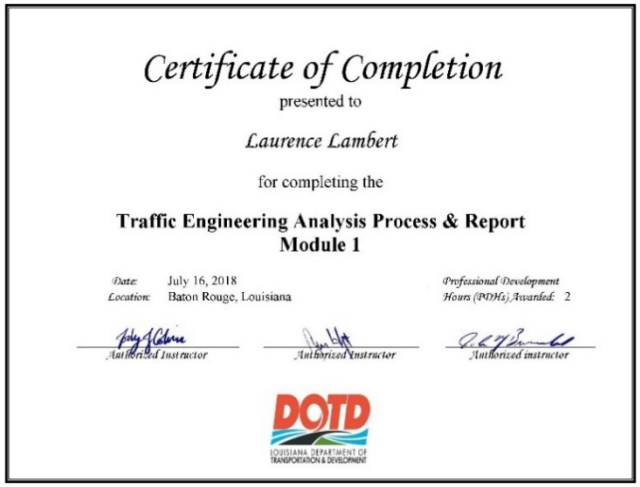
for completing the

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



Certificate of Completion

presented to

Laurence Lambert

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

Laurence Lambert

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

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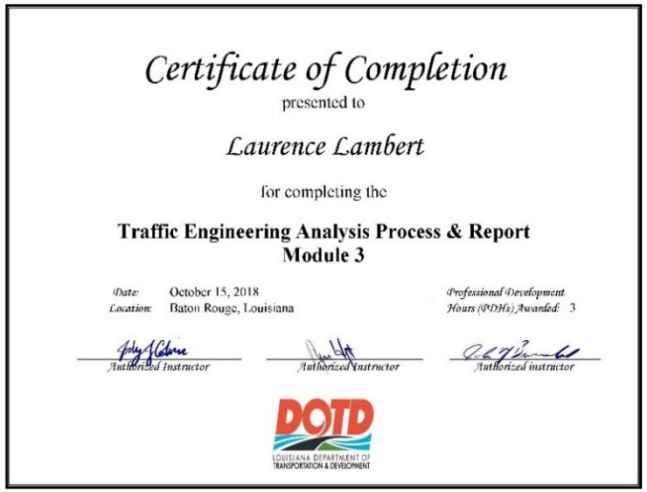


Certificate of Completion

presented to

Laurence Lambert

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

Certificate of Completion

presented to

Reece Rodrigue

for completing the

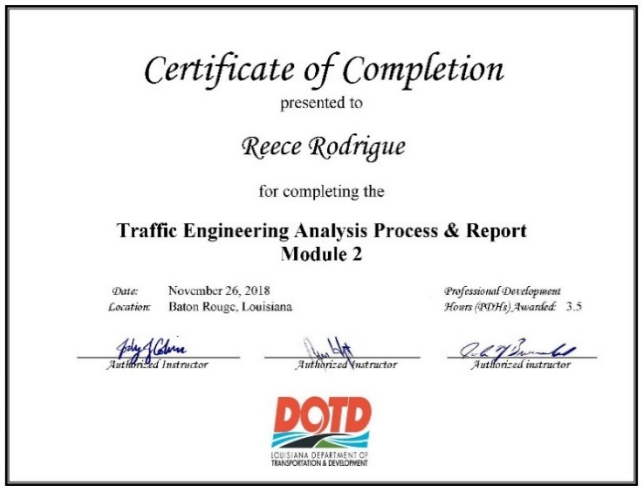
Traffic Engineering Analysis Process & Report
Module 1

Date: November 5, 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

Reece Rodrigue

for completing the

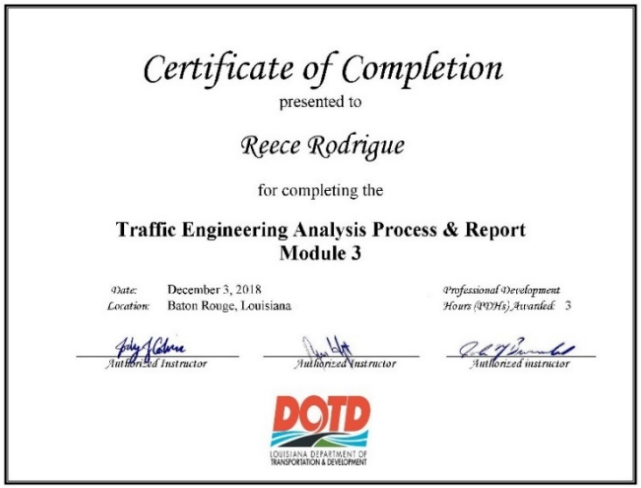
Traffic Engineering Analysis Process & Report
Module 2

Date: November 26, 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

Reece Rodrigue

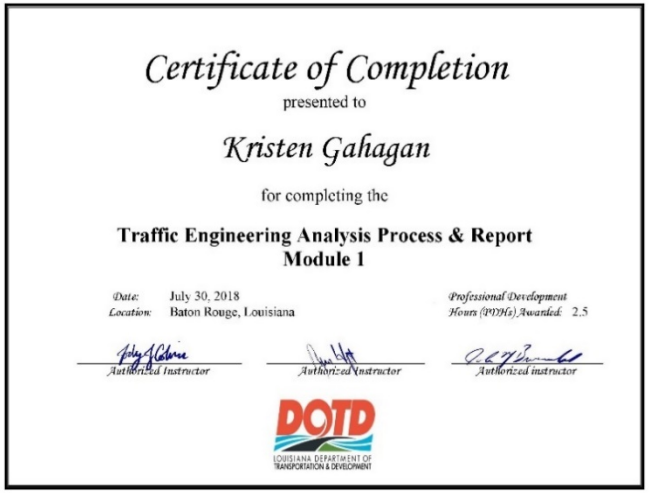
for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 3, 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

Kristen Gahagan

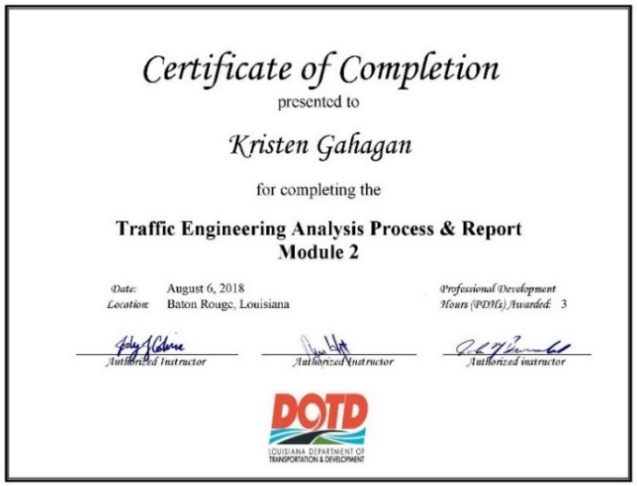
for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kristen Gahagan

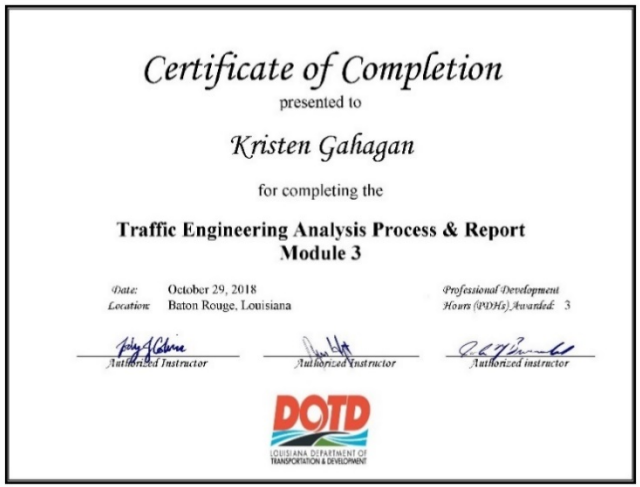
for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION
2020 NFPA 70: National Electrical Code (NEC) Online Training Series

ERIN CLAY

Completion Date: March 10, 2021
CEUs: 1.0 or 10 hours

President, National Fire Protection Association

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.®

NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION
2021 NFPA 70E Standard for Electrical Safety in the Workplace Online Training Series

ERIN CLAY

Completion Date: March 18, 2021
CEUs: .6 or 6 hours

President, National Fire Protection Association

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.®

NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION
NFPA 70, National Electrical Code (NEC) (2023) Online Training Series

RONNIE ST. ANGELO

Completion Date: May 17, 2023
CEUs: 1.0 or 10 hours

ACCREDITED IACET PROVIDER

President, National Fire Protection Association

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NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION
2021 NFPA 70E Standard for Electrical Safety in the Workplace Online Training Series

RONNIE ST. ANGELO

Completion Date: May 12, 2023
CEUs: .6 or 6 hours

ACCREDITED IACET PROVIDER

President, National Fire Protection Association

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NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION
NFPA 70, National Electrical Code (NEC) (2023)
Online Training Series

DAVID WATKINS

Completion Date: May 17, 2023
CEUs: 1.0 or 10 hours

ACCREDITED IACET PROVIDER

President, National Fire Protection Association

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.®

NATIONAL FIRE PROTECTION ASSOCIATION

CERTIFICATE OF COMPLETION
2021 NFPA 70E Standard for Electrical Safety in the
Workplace Online Training Series

DAVID WATKINS

Completion Date: May 12, 2023
CEUs: .6 or 6 hours

ACCREDITED IACET PROVIDER

President, National Fire Protection Association

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21. <u>QA/QC Plan:</u>

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

CONTRACT NO. 4400026073 and 4400026074
IDIQ CONTRACTS FOR ELECTRICAL SERVICES
STATEWIDE

QUALITY CONTROL / QUALITY ASSURANCE PLAN FOR BRIDGE DESIGN

Prepared For:

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Prepared By:

MODJESKI and MASTERS

May 25, 2023

M&M QUALITY CONTROL / QUALITY ASSURANCE PLAN

GENERAL

Quality is obtained when design and/or rating calculations, plans, specifications and reports, correspondence, invoices and oral communication, related to a particular project, are delivered to the owner in an accurate, error-free, professional, and timely manner, and in a presentation consistent with the owner's requirements.

Modjeski and Masters Quality Management Plan relates to both the technical and administrative aspects of the full engineering service life cycle of a project, including proposal preparation, staffing, design activities, field activities, internal and external communication, project review, field operations, including inspection and construction observation, and document storage. The plan is applicable to all engineering services offered by the firm including: bridge design, bridge rating, highway design, bridge rehabilitation, bridge inspection, mechanical design, electrical design, instrumentation, geotechnical investigations/design, construction consultation, inspection of construction, research and code development. Checklists and forms are often developed to monitor special needs of the owner and/or a specific engineering activity.

PROJECT

This project is an Indefinite Delivery/Indefinite Quantity (IDIQ) Contract for Electrical Services. The work under this contract may consist of performing topographic survey, and providing plans, specifications and special provisions, construction estimates, construction proposal, photometric report, engineering calculations, shop drawing, submittal, operational and maintenance manual and as-built drawing reviews/approvals, inspections, and construction related engineering services for existing and proposed interstate lighting projects.

QC/QA POLICY

Modjeski and Masters' Team QC/QA policy is to meet or exceed the QC/QA requirements of the following documents, in addition to those described in this document.

1. AASHTO Standards – The American Association of State Highway Transportation Officials
2. AASHTO – A Policy on Geometric Design of Highways and Streets –
3. ASTM Standards – https://www.astm.org/BOOKSTORE/BOS/index.html
4. CyberSecurity Training
5. DOTD – Bridge Design and Evaluation Manual (BDEM)
6. DOTD – Complete Streets –
7. DOTD – Construction Contract Administration Manual
8. DOTD – Consultant Contract Services Manual
9. DOTD – Hydraulics Manual
10. DOTD – Location and Survey Manual
11. DOTD – Addendum "A" to the Location & Survey Manual
12. DOTD – Louisiana Standard Specifications for Roads and Bridges
13. DOTD – Materials Sampling Manual
14. DOTD – Minimum Design Guidelines
15. DOTD – Off-System Highway Bridge Program Guidelines
16. DOTD – Roadway Design Procedures and Details Manual
17. DOTD – Stage 1 Planning/Environmental Manual of Standard Practice
18. DOTD – Testing Procedures Manual
19. DOTD – Traffic Engineering Manual
20. DOTD – Traffic Engineering Process and Report
21. DOTD – Traffic Signal Manual
22. e-CFR – Electronic Code of Federal Regulations (all applicable)
23. FHWA – Bridge Inspector's Reference Manual (BIRM)
24. FHWA – Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) –
25. National Electrical Safety Code (NESC)
26. NFPA 70 – National Electrical Code (NEC)
27. NEPA – National Environmental Policy Act
28. Standard for Electrical Safety in the Workplace (NFPA 70E)
29. IES Illumination Standards (e.g. ANSI/IES RP-8, IES DG-19)
30. DOTD "A Guide to Constructing, Operating, and Maintaining Highway Lighting Systems"
31. DOTD Bridge Design Technical Memorandum

QC/QA requirements for bridge design and preparation of plans and specifications are described in detail in the LADOTD Bridge Design and Evaluation Manual and the LADOTD Bridge Design Section QC/QA, and these policies will be fully adhered to by all team members. This document is consistent with and complements the LADOTD Bridge Design and Evaluation Manual and the LADOTD Bridge Design Section QC/QA.

A Quality Assurance Certification will be provided at the completion of each task using the Department's QC/QA Certification Form (LADOTD BDEM Chapter 3, Appendix D) and Certification Form (LADOTD BDEM Chapter 3, Appendix I). See Attachments 5 and 3, respectively.

DEFINITIONS

Quality Control (QC): A process of applying systematic procedures to ensure accuracy and consistency during electrical design calculation, electrical inspections, analyses and ratings and their documentations. It includes procedures for checking the accuracy of the calculations and consistency of design drawings, detecting and correcting design omissions and errors before the drawings are finalized, and verifying the design criteria have adequately been applied, and any past changes to the electrical system have been considered. QC is to be applied to all stages of the electrical analysis, design, including plan and document reviews related inspections and instrumentations. QC is to be applied also to verifying the specifications for the electrical service equipment are adequate for the service and operations loads.

Quality Assurance (QA): A systematic process aimed to ensure that the quality control process was followed during the development of electrical design plans, specifications, inspection and instrumentation reports. It includes procedures of reviewing the work to ensure that quality control is in place and effective in preventing mistakes, and providing consistency in the development of electrical design plans, specifications and reports.

Supervisor or Team Leader: Project Manager or task assignee, responsible for overseeing the project and the personnel assigned to the project.

Design Engineer: Engineer, licensed by the State of Louisiana as a professional engineer or certified as an engineering intern, directly responsible for the development of design calculations, reports, drawings and other related documents with a level of technical skills and experience commensurate with the complexity of the subject structure.

Detailer: Engineer or technician directly responsible for the creation and development of CAD drawings.

Design Checker: Engineer responsible for performing a full technical review of the electrical analyses, design calculations, reports, drawings, specifications and cost estimate with a level of technical skills and experience commensurate with the complexity of the subject structure. If

the information being checked was developed by an engineering intern, the design checker shall be an engineer licenses by the State of Louisiana as a professional engineer.

Detail Checker: Engineer or technician responsible for performing a full review of the CAD drawings ensuring that the drawings are in accordance with the design information and CAD standards.

Reviewer: Engineer, licensed by the State of Louisiana as a professional engineer, responsible for performing QA procedures for assuring that QA procedures have been performed as outlined in this policy and in accordance with LADOTD Bridge Design practices, policies and procedures. The Reviewer must have substantial technical skills and experience in the design of similar electrical systems and be independent of production.

Engineer of Record: The Engineer of Record, licensed by the State of Louisiana as a professional engineer, is responsible for the design shown on the plans and/or other deliverables and whose seal appears on the title sheet of the plans and/or deliverables. He typically ensures that the QC/QA certifications are signed by all parties, all design calculations and reports are included, and the names of all personnel are correctly shown.

Independent Technical Reviewer: Engineer who completes an independent review of the design calculations and is part of the consultant team. Independent Technical Reviewer must have experience reviewing tasks that meet or exceed those of the designer and or checker.

Peer Review: Engineering group with no prior involvement in the project, performing an independent check of the design calculations and results. Peer reviewers may not be employed by the same consultant.

RESPONSIBILITY AND AUTHORITY

Modjeski and Masters (M&M), as the Prime Consultant, will be fully responsible for QC/QA of their work as well as the work of all Sub-consultants. All project submittals will include a QC/QA certification that the submittals meet the requirements of the QC/QA plan document. The LADOTD shall not perform QC/QA of the consultant's work and the responsibilities of the LADOTD for consultant projects shall be limited to those listed in the LADOTD Bridge Design and Evaluation Manual.

The Principal-In-Charge (PIC) and Project Manager (PM) assigned to the Retainer will be responsible to ensure that the requirements of this QC/QA Plan are met by all members of the M&M Team. M&M will be assisted as needed by four (4) Sub-consultants for this work:

Sub-Consultant	Services Provided
Lazenby and Associates, Inc. Civil Design & Construction, Inc.	Topographic Surveying Services
Vectura Consulting Services, LLC	Traffic Engineering Transportation Management Plans
Aillet, Fenner, Jolly, & McClelland, Inc.	Structural Design for Roadway Lighting Support Structures Electrical Engineering Support

Principal-In-Charge (PIC) in consultation with the Project Manager (PM) will assign a Supervisor/Team Leader, Design Engineer, Detailer, Design Checker, Detail Checker and Reviewer to each task order, with a level of technical skills and experience commensurate with the complexity of the structures included.

A specific organizational structure will be developed for each task order outlining responsibilities for every role of the project. See Attachment 1 for the overall organization structure.

Sub-consultants are required to follow the same QC/QA Plan. Modjeski and Masters will assist the Sub-consultants with their QC/QA activities by:

- Meeting with each Sub-consultant to go over this QC/QA Plan and its implementation
- Conducting technical meetings
- Providing and coordinating technical assistance
- Providing training materials
- Developing checklists and standard forms specific to each task order
- Performing quality audits

QC/QA PROCESS CONTROLS

a. Project Initiation

During the initial identification and proposal phase of each task order the Principal-in-Charge (PIC) and Project Manager (PM) determine the personnel that will be assigned to the project and their responsibilities. When possible, these individuals will participate in the initial conceptualization of the project and manpower estimating, as these initial activities identify the path to project completion. Design tasks shall be assigned to engineers qualified by virtue of education and/or experience commensurate with the complexity of the subject project.

At the immediate initiation of the project, the PM will prepare a project schedule indicating the major milestone dates and deliverable dates on the project and, if required, submit it to the LADOTD for approval.

The staff assigned to the project will include an appropriate Supervisor/Team Leader, Design Engineer, Detailer, Design Checker, Detail Checker and Reviewer. Additional senior staff with experience related to the project will be assigned where appropriate. As additional staff joins the project, they will have a designated mentor among the senior staff to act as the first source for advice and counsel on technical and administrative matters. The technical scope of work contained in the Agreement will be made available to all individuals working on the project.

b. Project Design Criteria

Design criteria specific for each project will be developed by the PM prior to initiating the design process and will be submitted to the LADOTD for review and approval. Any design assumptions made or design exceptions obtained will be listed in the design criteria and referenced in the design calculations and drawings as appropriate. A design criteria checklist as developed by the LADOTD is included in Attachment 7.

c. Development of Designs and Plan Details

During the design phase, the design engineer will follow the design criteria established for the project. Electrical/Photometric analyses and preliminary plans will be developed first and approved by the PM prior to proceeding with the design of structural components. The design calculations will be organized and maintained in a standard calculation book format. The calculation book checklist as developed by the LADOTD is included in Attachment 8. The design engineer will communicate and coordinate with the detailer and supervise the detailing work to ensure that the drawings adequately and accurately present the design information.

d. Quality Control of Designs and Plan Details

All work will be checked in order to minimize errors. If the design engineer is an engineer intern, the design checker will be a professional engineer registered in the State of Louisiana. The design checker will verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard Items, and cost estimate and will also ensure that the drawings adequately and accurately present the design information. The designer's calculations are considered the calculations of record and will be updated to correct any errors or omissions discovered by the design checker.

The detail checker will ensure that the drawings are in accordance with the design information and CAD standards. In addition, all dimensions and quantity calculations will be verified.

After the completion of the design and detail check (which shall be completed no later than the 95% Final Plans stage), the designer will prepare and provide to the Reviewer a QA information package which includes the following:

- QA information package check list (see Attachment 9)
- Calculation Book(s)
- Plans
- Special provisions including Non-Standard Items
- Cost Estimate
- Any other relevant documents (checklists, review comments, etc.)

e. Quality Assurance of Designs and Plan Details by the Reviewer

The Reviewer for M&M will perform a cursory review of all documents in the QA information package focusing on the following items:

- Constructability of the Plan Details
- Areas of Critical Importance
- Areas where mistakes are typically found
- Areas that are new to the design practice

After all issues discovered during the QA process are rectified, the design calculations, plan details, special provisions and cost estimate shall be considered as final and the QC/QA certification (see Attachment 5) shall be signed by the designer, design checker, detailer, detail checker, and reviewer.

f. Peer Review

When requested by the LADOTD Bridge Design Engineer Administrator, M&M will conduct peer reviews by team members or engage the services of a Sub-consultant licensed by the State of Louisiana as a professional engineer to perform a peer review. The Sub-consultant chosen for the peer review will have no prior involvement in the project but will have substantial experience in the design of similar structures. All peer review comments will be submitted to the LADOTD and the design team for evaluation and resolution. All resolutions agreed upon by the designer, peer reviewer and the LADOTD will be incorporated into the final design. A Peer Review Resolution agreement (see Attachment 10) will be signed by the peer reviewer, the PM and an LADOTD representative.

g. Sealing of Design Calculation Book and Plans by the Engineer of Record (EOR)

In addition to the previously defined requirements for the Engineer of Record, the Engineer of Record shall be responsible for the following tasks:

- Ensure the QC/QA certification is signed by all responsible parties.
- Ensure the geotechnical design information shown on the plans is co-stamped by a

Geotechnical Engineer and the hydraulic information shown on bridge plans is co-stamped by a Hydraulic Engineer. When more than one engineering stamp is required on a sheet, the responsibilities for each engineering stamp shall be clearly defined.

- Assemble design calculations from all designers including the final geotechnical analysis report and the hydraulic report from the geotechnical engineer and the hydraulic engineer, finalize the calculation book, and seal the cover sheet of the calculation book.
- Ensure the names of the designer, design checker, detailer, detail checker, and reviewer are correctly shown on the title block of each plan sheet.
- Stamp all plan sheets or designate a designer, design checker, or reviewer who shall be licensed by the State of Louisiana as a professional engineer to stamp the sheets developed under their supervision.
- The EOR must stamp the general notes sheets.
- Ensure all special provisions are accurately shown on the construction proposal. The special provisions are typically stamped by the Specification Engineer as part of the construction proposal; however, if the Specification Engineer is not qualified or not willing to stamp the special provisions, the EOR will stamp these provisions.
- Archiving all bridge design files including calculation books, plans, special provisions, cost estimate and other pertinent documents in accordance with the LADOTD Bridge Design Section records retention policy.

i. QC/QA for Design Activities after Final Plans are Signed by the Chief Engineer

The same QC/QA process above shall be applied to all design activities such as plan revisions, change orders, etc. occurring after the final plans are signed by the Chief Engineer.

j. Archiving Electrical Design Files

The PM will deliver all electrical design files to the LADOTD Bridge Task Manger no later than 30 calendar days after the stamped final plans are delivered. Any revisions made to these documents due to plan revisions and change orders will be delivered with the signed plan revisions or change order sheets. The final calculation book and other final design documents for all projects including in-house and consultant projects will be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

k. Project Monitoring and Coordination

The PM will monitor the state of the project's progress, any unique technical issues that need to be resolved, and anticipated needs for increased or decreased staffing and report to the PIC.

The PM will be responsible to see that M&M internal minutes are kept at meetings with the LADOTD, Sub-consultants, and in-house project meetings. All the technical information in the

minutes will be made available to all individuals working on the project. Where action is required, an individual will be identified as having been assigned that responsibility and a place shall be provided for the PM to indicate when that action has been completed.

All telephone contacts with the LADOTD, fellow design team members or Sub-consultants which lead to decisions or assignments will be recorded on a telephone log sheet. The telephone log sheet will be circulated to all individuals involved, and will become part of the correspondence file for the project (See Attachment 2 for an example telephone log). The log's project title and task order number will be edited as required for each project.

The PM will be responsible for establishing and maintaining a task list, which will identify the anticipated tasks, the team leaders, design engineers, detailers, design checkers, detail checkers and reviewers.

The PIC and the PM are responsible for being current with the project as it develops and for resolving all comments made by the LADOTD and document the resolution.

The PM, or his/her discipline reviewer designee, is responsible for overall quality assurance of the project deliverables.

All calculations and reports, which become superseded during the course of the project, will be clearly identified as being superseded and will be filed separately from the current work. Superseded work will not be discarded until the end of the project.

State-of-the-art computer hardware and software will be used to monitor and track the project development process. The software packages to be used are Microsoft Excel and Deltek Vision.

l. Communication Plan

All project team communication will flow through the PM or his/her team leader designee. This includes all communication with the LADOTD and Sub-consultants.

The methods of communication to be used, listed in order of decreasing preference, include: face to face (not feasible in many cases), telephone, e-mail, express mail and regular mail.

m. Electrical Related Inspections and Instrumentations

All field activities will be conducted by certified inspectors and will be supervised by a Registered Professional Engineer. The PM will identify one member of a field party to serve as a Safety Officer. It will be the Safety Officer's responsibility to:

- Identify local emergency services prior to the start of field work
- Review inspection and field safety requirements of the client, OSHA and Modjeski and Masters, Inc. with the field crew prior to the start of work,

- Verify that safety equipment is being properly used, and
- Supervise any accident reporting that may be necessary.

All field activities will be summarized in a report. Depending on the type of project, this report may be a memorandum to the files or a formal report to be submitted to a client. All reports will contain sufficient descriptions, measurements, sketches, or photographs to document conditions found and will undergo QC/QA reviews.

n. Construction Support Phase

All design activities in the construction support phase will also adhere to the requirements and policies described in this document. These activities include but are not limited to the following:

- Providing responses to Requests for Information (RFI)
- Reviewing Shop Drawings/Submittals, including Operation and Maintenance Manuals
- Tracking progress of As-Built drawings
- Perform periodic field inspections
- Development of Plan Changes/Change Orders

M&M will ensure timely responses to RFIs submitted by the Contractor and/or the LADOTD. M&M will also ensure that the design engineers and/or design checkers from the design phase will participate in the RFI response process.

M&M will ensure that the design engineers and/or design checkers from the design phase will participate in the shop drawing/submittal review process. Shop drawings and submittals will be reviewed to ensure compliance with design details and project requirements included in the plan drawings. M&M will also review the submitted shop drawings for compliance with the requirements set forth in the Louisiana Standard Specifications for Roads and Bridges. All comments will be returned to the Contractor for agreement, resolution and drawing revisions. Stamps to be applied to shop drawings during the intermediate and final review will adhere to the policies set forth in Bridge Design Technical Memorandum No. 75 and the Louisiana Standard Specifications for Roads and Bridges, Latest Edition. A submittal log will be maintained with the status of the submittals as well as a complete set of submittals.

M&M will also distribute the final shop drawings and submittals according to the distribution list provided by the LADOTD Project Manager or LADOTD Bridge Task Manager. Shop drawing distribution letters as provided in BDTM.75 will be used for each distribution.

M&M will track the progress of the As-Builts during construction and will review the As-Builts to determine if they are complete and accurate. M&M will ensure that a final copy of the Electrical Record Drawings is included by the Contractor in the Operation and Maintenance Manuals.

Plan changes will adhere to all requirements and policies set forth in this document including the CAD Standards and Electronic Deliverables Policy.

SUB-CONSULTANTS

The Sub-consultants for a given task order and their general responsibilities under the contract are to be listed in Attachment 4 of this document.

Upon receipt of Notice-To-Proceed from the LADOTD, the PM will provide and confirm with each Sub-consultant, the scope of services and upper budget limit for the work. Invoicing procedures will be provided to expedite the billing process.

Each Sub-consultant will be asked to provide monthly status reports, which will include a summary of the progress to-date, and which will identify any issues encountered with its work during the period, any decisions or information from M&M that is delaying completion of its work, and the anticipated work for the next reporting period. Each Sub-consultant will be asked to provide interim results of their work, so that M&M can assess the information completed to-date, and either confirm that the task is being completed as scoped, or make the necessary adjustments to ensure that the work is being performed as scoped. All results provided by the Sub-consultants will be reviewed by the appropriate M&M staff prior to the information being used for preparation of deliverables to the LADOTD.

Internal team meetings will be held on a routine basis, and may or may not include all Team members, depending on the major tasks underway at that point in the schedule. Meeting minutes will be recorded and distributed by M&M to the Sub-consultants as deemed appropriate.

Information provided by the LADOTD will be assessed by M&M, and forwarded to the Sub-consultant as necessary for information and action.

ELECTRONIC DELIVERABLES

M&M will produce all electronic deliverables in conformance with the pre-approved list of software posted on the DOTD Bridge Design Section website and the DOTD Software and Deliverables Standards for Electronic Plans document (see Attachment 11). In addition, M&M will ensure that all Sub-consultants submit their electronic deliverables in conformance with the same standards.

M&M and all Sub-consultants will upload or check-in electronic deliverables directly into the LADOTD ProjectWise repository at each plan delivery milestone. In addition, M&M will perform the following operations at each milestone:

- Upload or check in CAD plan deliverables to the discipline “Plans” folder

- Apply and maintain indexing attributes to CAD plans (and other deliverables as needed)
- Publish to PDF format plan submittals in ProjectWise using automated publishing tools
- Digitally sign PDF format plan submittals in ProjectWise according to LADOTD standards and procedures. Signatures will be applied in the appropriate signature blocks with electronic seals and Title Sheets.
- Provide ControlCAD reports in ProjectWise and utilize these reports to correct indexing attributes and CAD standards of all electronic .DGN files.

M&M will apply patches to CAD Standard Resources and install updates to software as needed. In addition, M&M will install major updates to software versions and CAD Standard Resources in a timely manner or as directed by the LADOTD.

IDENTIFYING NON-CONFORMING WORK

The Project Manager or his/her designee will monitor day-to-day activities of the Design Team to confirm that the work is being performed as described in the scope of services and maintains the quality level expectations for the project, and it is within the established budget constraints. Discipline team leaders and reviewers will conduct quality control reviews at regularly scheduled intervals between and up to major milestone submissions throughout the course of the project. The schedule for these reviews will be established at the beginning of each major phase of the project by the Project Manager and the quality assurance reviewers based upon the agreed upon task schedule. Regular staff meetings will be held to discuss interim results, and to quickly identify work that may be considered non-conforming to the requirements of the project. Meeting minutes will indicate the extent of the non-conforming work, and action taken to correct the work and prevent re-occurrence for the remainder of the project. The impact of any non-conforming work on external parties will be assessed, and affected parties will be notified as required. Corrected information will be provided to the affected parties as soon as practical. The results of non-conforming work will be sent to a “dead” file, and disposed of at the completion of the project. With day-to-day monitoring of activities, and regular staff meetings, the potential for, and associated costs of, non-conforming work will be minimized.

M&M’s Sub-consultants will also be asked to monitor their activities for non-conforming work in a similar fashion, either identified internally, or through reviews of their work by M&M.

SCHEDULES / DELIVERY DATES / BUDGETS

The Project Manager will establish accounting phase codes for the project that follow the task designations included in the technical and price proposal. The associated budget for each phase based on negotiated man-hours will also be developed. Task codes will be established

for each subtask within a particular designated proposal task. This information is then provided to the Accounting Department in order to track project man-hours used and job costs.

In addition, when deemed expedient by the Project Manager, project specific progress spreadsheets will be used to monitor efforts, and provide a second weekly means to track progress and project percent complete.

Quality assurance reviews will be conducted at regular intervals within each major phase of the project. Milestone submission dates will be used to develop the quality assurance review schedule to provide quality deliverables, and to ensure that sufficient time is included to perform the review, as well as permit the design team to respond and/or correct non-conforming work without compromising the overall submission schedule.

M&M will provide a project schedule to the LADOTD for record that identifies key deliverables and their milestone dates. This schedule will conform to the milestone dates established by the LADOTD at the project's start unless a revised schedule has been agreed upon by the LADOTD subsequent to the project start date. The schedule will be updated on a monthly basis to confirm that the project is proceeding as originally anticipated.

In the event a task order falls behind the projected schedule, an assessment will be made by the Project Manager or his designee on how to correct the issue. Potential corrective actions will include more staff added to the task, re-assignment of more specialized staff to the task, or perhaps a re-assessment of the schedule to determine if adjustments can be made to accommodate the delay in the task under concern, without impacting future project milestones.

ADMINISTRATIVE QUALITY MANGEMENT PROCEDURES

The PIC and PM are responsible for the preparation of the technical and price proposals for the project, including both the original agreement and subsequent supplements/work orders. The PIC will review all proposals prior to submission to the LADOTD. A copy of the executed agreement(s) is kept on file in the Accounting Department. This file is readily available to management staff.

Estimation of percent completion and invoice costs will be performed by the PM, with assistance from the discipline team leaders. Using project specific progress tracking spreadsheets, and input from senior staff on completion of work for the various tasks performed for the period under consideration, a project percent complete will be established. This information will be compared against the projected percent compete per the design schedule at that time to determine if the project is on or ahead of schedule, or what corrective actions are necessary to get back on schedule.

DOCUMENT CONTROL

a. Input

Project specific files are to be established at the beginning of the project. Information is to be filed using the project number as the primary element followed by numerals set up for the project (for example 3000-1 with 3000 being the job number and the numeral 1 being general correspondence and so on) or in accordance with a file numbering system established by the LADOTD.

Information received by the PM is assessed and a copy forwarded to appropriate staff primarily responsible for the task. All senior staff will be provided with the file copy for review and information purposes, in order to keep them aware of associated tasks being performed in conjunction with their work. Electronic documents, including e-mail, are kept on our secure server that all staff can access using the same file naming convention.

All staff will be provided access to current design codes, and addendums which are provided by the Firm when available. Staff will be notified of project specific design criteria and standards, either at staff meetings, or by receipt of memorandum, or by e-mail.

Comments received from the LADOTD or Sub-consultants are reviewed by the PM or his designee, and the appropriate staff made aware of the comments for their response. If a date of response is not included with the comment document, the Project Manager will establish a date, and follow-up with the appropriate staff to make certain that resolution is occurring in a timely manner. The PM will provide M&M's response to the LADOTD and await a follow-up reply.

b. Output

The PM or his designee will confirm that the design staff have been supplied and are using the most current project information, project specific design criteria, design specifications and standards during the course of the project. Staff will be notified either through face-to-face meetings, inter-office mail or electronic mail of updates to information/specifications/criteria that will impact their work.

Quality assurance reviews will be conducted to confirm that the assigned project staff is using the correct project information, design criteria, specifications and standards for completion of their work.

TECHNICAL QUALITY MANAGEMENT PROCEDURES

Specific design procedures for this QC/QA Plan include the following:

- The PM or his team leader designee will identify the design criteria established for each task order, and ensure that the staff is kept updated on any changes or additions to the criteria as the project progresses. Project specific exceptions to standard design specifications discussed with the LADOTD will be documented. Reports and technical documents will be reviewed by the PM or his team leader designee to confirm that the results and/or recommendations utilize the current criteria. Reports and documents will be provided to the quality assurance reviewer to assess the results and recommendations of the design team.

- Continuing training is part of M&M's culture. M&M Design Engineers are constantly being trained by the more senior staff and by attending relevant courses and conferences, and these efforts shall continue. The training materials and references collected are readily available in the office, and will also be made available to the Sub-consultants.

- Design Engineers shall perform self-checking as the work progresses using in-house developed self-checking guidelines. They shall also perform cross checking as needed as the work progresses, when any team member is unsure of the results.

- Design engineers shall provide calculations for formal checking that include assumptions, design criteria and all reference material used to develop the calculations. Calculations shall be in a neat and orderly format. Individual sheet (or sheets) considered as trial designs, or no longer valid, shall be marked to prevent checking of preliminary or superseded work. All formal design calculation sheets will be checked, initialed and dated by the originator and the checker. The quality assurance reviewer will confirm that the established checking procedures and Quality Review Color Codes contained in Attachment 6 have been followed, and that the calculations are complete.

- Any and all LADOTD approved computer programs to be used for a project will have been checked independently by M&M as part of the approval process. Program input is checked to confirm that the appropriate geometry, section properties and material properties have been used, and the output assessed to make certain that the results are trending in the right direction, based on both the current project, as well as past experience, prior to the results being used to complete the design. It is of utmost importance that the designer understands when computer results are reasonable. Checks are made using hand calculations or different computer programs used in parallel. Two engineers working in parallel may be needed when using software that requires a high degree of accuracy and detail. Spreadsheets are checked to confirm that the appropriate design criteria and specifications are being utilized, and that the results of the analysis programs are being transferred correctly and appropriate load factors are being applied.

- Drawings for the design will be developed by qualified technicians and reviewed and checked by engineers or qualified technicians and will meet the requirements of the LADOTD. Drawings will be initialed and/or signed, as applicable, by the originator and the checker. Drawings marked up with changes and/or corrections resulting from the review

process are returned to the designer for action. Upon completion of the revisions, the team leader will compare the revised drawings with the marked up review drawings to ensure that all comments have been incorporated into the plans. The completed drawings and mark up's will be provided to the quality assurance reviewer to confirm that the necessary corrections have been completed, the Quality Review Color Codes contained in Attachment 6 have been followed, as well as assess the drawings for overall completeness and clarity.

- Special provisions for non-standard items will be reviewed by the PM or discipline lead for clarity, as well as consistency with the contract plans. Conformance to the LADOTD's standard specifications (content and format) will also be checked. The quality assurance reviewer will assess the special provisions for completeness and compatibility with contract plans.

- Construction cost estimates will be developed based on estimated quantities for the various pay items associated with the design and in accordance with the LADOTD's requirements. An in-house cost estimate will be determined based on M&M plan details. In addition, industry experts (suppliers, fabricators and contractors) may be consulted in development of the estimates. Current bid price (averages) and similar recently bid and/or completed projects will also be reviewed to confirm that the estimate is reasonable. The PM will review the information used to create the cost estimate. The completed cost estimate will be provided to the quality assurance reviewer to assess if the costs appear reasonable for the work included in the contract plans and specifications.

- The PM or a qualified reviewer designee will review all calculations, drawings and specifications to determine that work is being completed in accordance with applicable specifications and the requirements of the LADOTD. This is not to be a number-by-number, line-by-line review, but is to be sufficiently in-depth to identify significant shortcomings in content or presentation, and to determine that the intent of design specifications is being met. This review also includes checking the constructability of the project.

- Completed LADOTD quality assurance certification forms will be submitted for the project. A copy of the certification forms are attached (see Attachments 3 and 5.)

- The PM will be responsible to determine that the project is successfully and completely finalized. This will include:
  - the filing and indexing of design calculations and record copies of drawings,
  - confirmation that the correspondence file and accounting files are in their proper locations,
  - confirmation of the delivery of all required drawings, calculations, reports, correspondence and other documentation to the LADOTD., and
  - confirmation that quality assurance records and certification forms have been filed.

- Records will include the following items:
  - non-conformance and corrective action reports

- drawings, procedures and the QA/QC plan
- design input, output and verification
- certification records

- All files, storage boxes or other containers shall be clearly identified with the proper name of the project, the colloquial name, if applicable, the year completed, the LADOTD's project identification number and M&M's project number. These will be transmitted to the LADOTD if required. The accounting office will be notified that the project is complete and that final invoicing may take place.

INTERNAL QUALITY AUDITING

An internal QA audit schedule for each project will be developed. The schedule will be a function of the length of the Task order; shorter task orders will require more frequent audits versus longer projects. Individuals named by the PIC will be performing quality assurance reviews, and will be primarily responsible for confirming that the QC/QA plan is being implemented by the PM on the project. The results of these quality assurance audits will be provided to the PM. If any deficiencies are noted, the PM will be responsible for taking corrective action, follow-up and providing documentation of the actions taken.

Frequency of review meetings for the following items is anticipated to be as follows:

- Schedules – monthly
- Scope – monthly
- Budget – monthly
- Team organization adjustments – bi-weekly (max), or as needed by the project schedule
- Approvals – as needed
- Coordination – at the discretion of the Design Team

During the course of the project, periodic reviews of the policies and procedures in QC/QA Plan will be reviewed by the PM and the quality assurance reviewers to ensure usability and compatibility with interfacing procedures.

Assigned project staff and new staff as they are assigned to the project will be made aware of the specific QA/QC controls established for the project by the PM or his designee. Senior staff will mentor new staff on policies and procedures used to ensure a quality deliverable. The quality assurance reviewers will also monitor the staff to confirm that the quality management plan has been properly communicated to the assigned staff, and that modifications to the plan are communicated to all staff throughout the course of the project.

EXTERNAL AUDITS

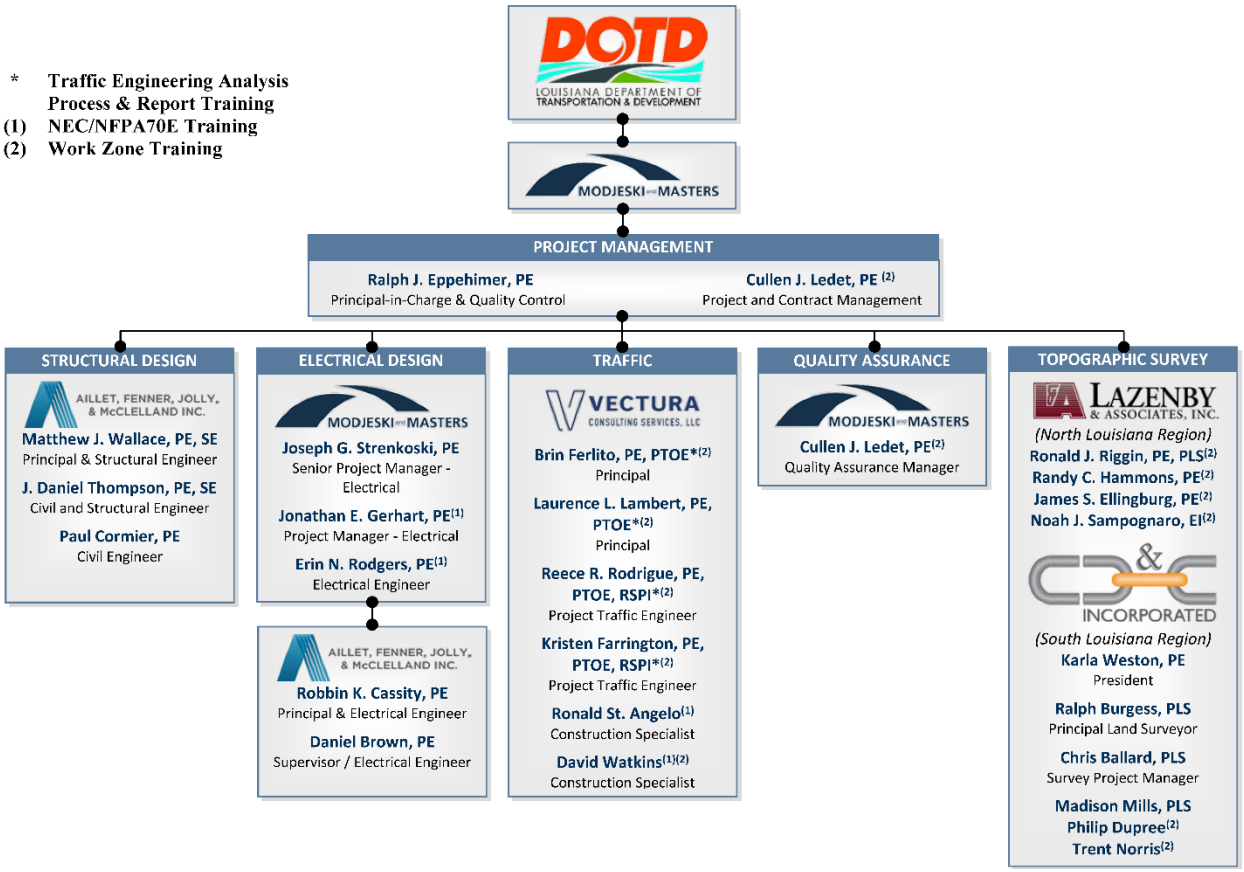
M&M will accommodate and facilitate LADOTD audits at various times throughout the duration of the project if required.

QC/QA CERTIFICATION

At the end of each project the Department's QC/QA Certification Form (LADOTD BDEM Chapter 3, Appendix D) will be completed and submitted along with the Certification Form (LADOTD BDEM Chapter 3, Appendix I). See Attachments 5 and 3 respectively.

ATTACHMENT 1 - QUALITY CONTROL / QUALITY ASSURANCE PLAN ORGANIZATION CHART

* Traffic Engineering Analysis Process & Report Training
(1) NEC/NFPA70E Training
(2) Work Zone Training



ATTACHMENT 2 – TELEPHONE LOG

TELEPHONE LOG

DATE:	TIME:	☐	URGENT	☐	OUTGOING CALL
		☐	INCOMING CALL	☐	RETURNING YOUR CALL

YOUR NAME:
CALLER/PERSON CALLED:
PHONE NO:
PN: **XXXX**
PROJECT: **XXXXX** **Bridge Task Order #: XXXXXXX**

SUBJECT DISCUSSED	ACTIONS TO BE TAKEN

ATTACHMENT 3 – CERTIFICATION FORM

Appendix I

Consultant Submittal QC/QA Certification

Project No.:

Project Name:

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and LADOTD Bridge Design Section policy on QC/QA and the information presented is accurate and meets the requirements of this submittal. All CAD drawings meet LADOTD CAD standards.

_____

Submittal Description

_____	_____	_____
Supervisor or Team Leader Name	Signature	Date

ATTACHMENT 4 – LIST OF SUB-CONSULTANTS AND FUNCTION

Sub-Consultant	Services Provided
Lazenby and Associates, Inc. Civil Design & Construction, Inc.	Topographic Surveying Services
Vectura Consulting Services, LLC	Traffic Engineering Transportation Management Plans
Aillet, Fenner, Jolly, & McClelland, Inc.	Structural Design for Roadway Lighting Support Structures Electrical Engineering Support

ATTACHMENT 5 – QC-QA CERTIFICATION

Appendix D
QC/QA Certification

Project No.:
Project Name:

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

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotechnical Engineer						
Hydraulic Engineer						
EOR						

ATTACHMENT 6 – QUALITY REVIEW COLOR CODE

The originator will generate printed or copied reports, calculations, drawings, or other similar originals.

The checker will:

Highlight in YELLOW everything that is correct.

incorrect
Strike in RED everything that is incollect or needs to be deleted.

Write all additions and corrections in GREEN.

The originator will then:

Back-check in BLUE.

All comments that do not require edits are to be made in BLACK ink or pencil.

ATTACHMENT 7 – EXAMPLE OF DESIGN CRITERIA CHECKLIST

(This is an illustrative example as provided by the LADOTD. Specific checklists and forms will be developed for each bridge type and task order)

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

__ **Cover sheet**

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- Revision date
- The Supervisor or Team Leader's signature and date

__ **Governing Design and Construction Specifications and Other References**

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

__ **Design Assumptions and Design Exceptions**

All design assumptions and design exceptions received must be included in this section along with supporting documents.

__ **General Information**

The general information as listed below should be included in this section:

- Bridge information (no. of bridges, bridge clear width, length, no. of lanes, lane width, shoulder width, etc.)
- Road information (roadway classifications, design speed, traffic data, etc.)
- Vertical datum
- Vertical and horizontal clearances
- Other relevant information

__ **Hydraulic Design Criteria**

All hydraulic design criteria (design year, design water elevations, scour depth and scour elevation, etc.) shall be included in this section and the information shall be provided by the Hydraulic Engineer.

__ **Design Factors**

The ductility factor η_D, redundancy factor η_R, and operational importance factor η_I shall be listed in this section.

__ **Design Loads**

All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.

__ **Limit States**

All applicable limit states for this project shall be listed in this section.

__ **Bridge Barrier**

The design criteria, types, and test levels for bridge barriers shall be listed in this section. Standard plans and special details should be listed if they are utilized.

__ **Guardrail**

The design criteria, types, and test levels for guardrails shall be listed in this section. Standard plans and special details should be listed if they are utilized.

__ **Approach Slab**

Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Deck and Deck Drainage**

All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Bearing**

All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Joint**

All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Superstructure**

All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Substructure**

All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Piles and Drilled Shafts**

All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Geotechnical Design**

All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans and special details should be listed if they are utilized.

__ **Mechanical Design**

All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

__ **Electrical/Lighting Design**

All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

__ **As-Designed Bridge Rating Criteria**

All as-designed bridge rating criteria shall be included in this section.

__ **Software**

All software used for design and check shall be included in this section.

ATTACHMENT 8 – FINAL CALCULATION BOOK CHECKLIST

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

__ **Cover Sheet**

The following information must be included on the cover sheet:

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

__ **Final Calculation Book Check List**

__ **QC/QA Certifications**

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

__ **Design Criteria**

__ **Photometric Analysis Report**

__ **Final Hydraulic Analysis Report from Hydraulic Engineer**

__ **Final Geotechnical Analysis Report from Geotechnical Engineer**

__ **Electrical Design Calculations**

__ **Superstructure Design Calculations**

__ **Substructure Design Calculations**

__ **Quantity Calculations**

__ **Special Provisions/NS-Items**

__ **Construction Cost Estimate**

__ **As-Designed Rating Report**

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

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

__ **A PDF File of the Calculation Book (Including the As-Designed Rating Report)**

__ **All Electronic Design Files**

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

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

ATTACHMENT 9 – QUALITY ASSURANCE INFORMATION PACKAGE CHECKLIST

Project No.:

Project Description:

_____ Calculation Book

_____ Plans

_____ Special Provisions

_____ Cost Estimate

_____ Other Documents _____

ATTACHMENT 10 – PEER REVIEW RESOLUTION AGREEMENT

Project No.:

Project:

Name:

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

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

ATTACHMENT 11 – LADOTD SOFTWARE AND DELIVERABLES STANDARDS FOR ELECTRONIC PLANS

LaDOTD Software and Deliverable Standards for Electronic Plans Revised May 2018				
Function	**LaDOTD Software Standards**	**Consultant Software Standards**	**Deliverables**	**Comments**
CAD Drafting	Bentley MicroStation V8i V8.11.07.443 (SS2) or V8.11.09.832 (SS4)	Bentley MicroStation V8i V8.11.07.443 (SS2) or V8.11.09.832 (SS4)	MicroStation DGN	• Consultants must upload MicroStation plan submittals directly into the ProjectWise discipline "Plans" folder.
CAD Standards Management	Altiva CADconform V8.00.70 (MicroStation)	Altiva CADconform V8.00.70 (MicroStation)	MicroStation DGN (with valid CADconform certification stamp)	• Certify the DGN files as DOTD CAD Standard Compliant (indicated by valid compliance stamp) using CADconform running on MicroStation.
CAD Standards Quality Authentication	Altiva DMSconform "Check CAD Standards" (Administered by LaDOTD in ProjectWise)	Altiva DMSconform "Check CAD Standards" (Administered by LaDOTD in ProjectWise)	Approved ControlCAD Microsoft Excel report	• DOTD reviewers use the DMSconform "Check CAD Standards" function to check for valid CADconform certification stamps and for several other compliance factors. • Status reports must reflect 100% compliance by 80% Final Plans (or sooner if specified by the Project Manager). Substandard deliverables must be approved and documented (as to reason) by the Project Manager.
CAD Attributes Quality Authentication	Altiva DMSconform "Check Attributes" (Administered by LaDOTD in ProjectWise)	DMSconform "Check Attributes" (Administered by LaDOTD in ProjectWise)	Approved ControlCAD Microsoft Excel report	• DOTD reviewers use the DMSconform "Check Attributes" function to check for completed indexing attribute values. • Status reports must reflect 100% compliance by 80% Final Plans (or sooner if specified by the Project Manager). Substandard deliverables must be approved and documented (as to reason) by the Project Manager.
CAD Plotting	Bentley ProjectWise InterPlot Organizer V8i V8.11.11.XX (SS4)	Bentley ProjectWise InterPlot Organizer V8i V8.11.11.XX (SS4)	Paper format drawings (InterPlot can also be used to create PDFs)	• Full Size Submittals: Full size submittal sheets shall have an outside edge measuring 22" X 34". Provide a 0.50" margin on the top, bottom and right hand side of the sheet and a 2" margin on the left hand side of the sheet. • Half Size Submittals: Half size submittal sheets shall have an outside edge measuring 11" X 17". Drawings shall be an exact 50% reduction of the full size scale drawing. Provide a 0.25" margin on the top, bottom and right hand side of the sheet and a 1" margin on the left hand side of the sheet. • Letter Size Submittals: Letter size submittal sheets shall have an outside edge measuring 8.5" X 11".
Electronic Plans Publishing	Bentley Publish to PDF (Integrated with ProjectWise)	Bentley Publish to PDF (Integrated with ProjectWise)	PDF drawings in ProjectWise	• PDF format drawings are the formal electronic deliverable. • Consultants must import (managed refresh) MicroStation format drawings into the appropriate ProjectWise discipline "Plans" folder (for each plan delivery milestone) in order to be able to publish PDF plan submittals. • A **.MSI** setup file is needed to use the Publish to PDF tool. ProjectWise External PDF Publishing Downloads For Consultants
Road Design	Bentley Inroads V8i V8.11.07.615 (SS2)	Bentley Inroads V8i V8.11.07.615 (SS2)	InRoads DGN graphics, ALG, DTM	• DOTD only allows InRoads that runs on the MicroStation platform. • InRoads SS4 and OpenRoads Designer are not supported at this time.
Hydraulic Design Drafting (Optional)	Bentley Inroads Storm & Sanitary V8i V8.11.07.615 (SS2)	Bentley Inroads Storm & Sanitary V8i V8.11.07.615 (SS2)	Hydraulics DGN Graphics	• Bentley Storm and Sanitary is recommended for generating graphics only. • DOTD only allows InRoads Storm & Sanitary that runs on the MicroStation platform. • The current design standard is HYDR which is used to check hydraulic designs.
Electronic Survey	Bentley Inroads Survey V8i V8.11.07.615 (SS2)	Bentley Inroads Survey V8i V8.11.07.615 (SS2)	Survey DGN Graphics, FWD, DTM, ALG, TXT	• Any data collection tool and method that produces the required deliverable content and accuracy are acceptable. • DOTD feature codes must be used during data collection to enable output of CAD survey graphics and associated Tag Data. •DOTD only allows InRoads Survey that runs on the MicroStation platform.
PDF Plan Reader	Adobe Acrobat Reader	Adobe Acrobat Reader	N/A	
Digital Signatures	N/A (New Process In Developement)	N/A (New Process In Developement)	N/A (New Process In Developement)	N/A (New Process In Developement)
Collaboration Platform	Bentley ProjectWise Explorer V8i V8.11.11.XXX (SS4)	Bentley ProjectWise Explorer V8i V8.11.11.XXX (SS4)	Project plans and associated documents	• Consultants are required to manage their plan submittals within DOTD's ProjectWise system. • Use the managed Exports-Export (Locks File) and managed Import functions to manage CAD development between PDF submittals. This prevents unauthorized changes and loss of attribute indexing. • The ProjectWise Explorer application is provided free of charge for consultants working on LA DOTD projects. The Bentley Passport License required to run ProjectWise will be the Consultant's responsibility to purchase.
Software versions posted herein are the latest supported version as of this document publishing. We will seek to keep this document as up to date as possible as we move forward.				
Contact Ryan Felder at ryan.felder@la.gov (225-379-1366) for general information and assistance regarding LaDOTD electronic standards, ProjectWise workflow and electronic plan delivery, authentication and publishing. **Contact David Ringuette** at david.ringuette@la.gov (or call 225-379-1890) for general information and assistance regarding ProjectWise, PDF publishing setup. **Browse to http://www.dotd.la.gov and then select Doing Business with LaDOTD > Electronic Standards for Plans** for links to all DOTD electronic standards and software downloads.				
Browse to http://www.altivasoft.com/downloads/CADconform for the latest CADconform software downloads and related CAD/OS platform compatibility information. **Contact support@altivasoft.com** (or call 281-295-2254) for information and assistance regarding installation of LaDOTD CAD Resources and Altiva CADconform software.				
Contact Altiva Software to purchase CADconform. **Contact Bentley Systems** to purchase MicroStation, ProjectWise InterPlot Organizer and Inroads products.				

Louisiana Department of Transportation and Development
Bridge Design Section
Pre-Approved Software List
Updated: March 10, 2021

Developer	Software Name
AASHTO, Inc.	AASHTOWare Bridge Design
AASHTO, Inc.	AASHTOWare Bridge Rating
AASHTO, Inc.	AASHTOWare PS Design Tool
Acuity Brands Lighting, Inc.	Visual
Bentley Systems, Inc.	CONBOX
Bentley Systems, Inc.	CONSPAN
Bentley Systems, Inc.	CONSPLICE
Bentley Systems, Inc.	GEOMATH
Bentley Systems, Inc.	Microstation
Bentley Systems, Inc.	OPEN Bridge Modeler
Bentley Systems, Inc.	RCPier
Bentley Systems, Inc.	RM Bridge
Bentley Systems, Inc.	STAAD
Bentley Systems, Inc.	STAAD Beava
Bentley Systems, Inc.	STAAD Section Wizard
Bridge Software Institute	FB-Pier
Computers and Structures, Inc.	CSiBridge
Computers and Structures, Inc.	CSiCOL
Computers and Structures, Inc.	SAP 2000
CSI, Ltd.	DDM
DOTD In-House	COMPSTIL
DOTD In-House	TimberC
Drive Systems Technology, Inc.	Power Gear
Elite Software	CHVAC 8
Ensoft, Inc.	L-Pile
Finite Element Analysis, Ltd.	LUSAS
LARSA, Inc.	LARSA 4D Bridge Plus
Lighting Analysts, Inc.	AGi32
MDX Software, Inc.	MDX
MIDASoft	Midas Civil

Operating Technology, Inc.	ETAP
PTC, Inc.	MathCAD
Smart Bridge Technology	Smart Bridge Suites
SolidWorks Corporation	SOLIDWORKS
Structure Point, LLC	spColumn
University of Maryland	Sabre
Vista Data Vision	VDV
Wyoming DOT	BRASS-Culvert

Notes:

1. If any other software is required for unique applications for which pre-approved software cannot be used, a synopsis of the software shall be submitted to the Bridge Design Engineer Administrator for approval prior to use. The synopsis shall include the name of the software and the developer, a general description of the functions, a certification from the software developer stating that it is maintained in accordance with the latest AASHTO LRFD Bridge Design Specifications, and an account of the requester's experience and the experience of other organizations or agencies that use the software. Data/results from in-house software will not be accepted as part of the deliverable.

2. The cost of software shall be included in the overhead cost of the firm and not a direct expense for the projects.

22. Sub-consultant information:

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and email address**	**Phone Number**
Aillet, Fenner, Jolly & McClelland, Inc.	3003 Knight Street, Ste. 120 Shreveport, LA 71105	Matthew J. Wallace, PE SE mwallace@afjmc.com	318-425-7452
Lazenby & Associates, Inc.	2000 North 7th Street West Monroe, LA 71291	Paul D. Fryer, P.E., P.L.S., Senior Vice President pfryer@lazenbyengr.com	318-387-2710
Civil Design & Construction, Inc. (CD&C)	PO Box 857 Port Allen, LA 70767	Karla E. Weston, PE, President kweston@cdcbr.com	225-765-1802
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd, Suite A, Baton Rouge, LA 70809	Sheelagh Brin Ferlito; bferlito@vecturacs.com	225-223-6685

(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. Any information included in this section will be redacted if not required by the advertisement**.