Louisiana Department of Transportation and Development

IDIQ CONTRACT FOR ROADWAY DESIGN SAFETY STATEWIDE

Original

CONTRACT NO. 4400026026

Request for Qualifications

March 16, 2023

MODJESKI and MASTERS

VECTURA CONSULTING SERVICES, LLC

C&C INCORPORATED

DOTD FORM: 24-102

(Revised January 1, 2023)

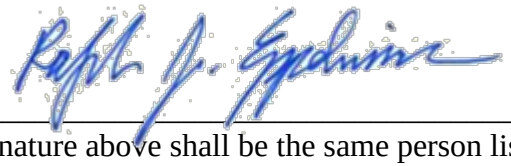
PROPOSAL TO PROVIDE CONSULTANT SERVICES

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 Contract for Roadway Design Safety Statewide**
2. Contract Number(s) as shown in the advertisement	**Contract No. 4400026026**
3. State Project Number(s), if shown in the advertisement	**N/A**
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 St., 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 St., Suite 900, New Orleans, LA 70163
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Newell H. Schindler, Jr., PE, Senior Engineer – Highway Section Manager (504) 524-4344, nhschindler@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: Date: March 16, 2023

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s):	Firm(s)' %:
	Vectura Consulting Services, LLC (Vectura)	15.00%
	Civil Design & Construction, Inc. (CD&C)	10.00%

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 (Prime)	VECTURA CONSULTING SERVICES, LLC (DBE)	C&C INCORPORATED (DBE)	Each Discipline must total to 100%
Road	75%	100%			**100%**
Traffic	15%		100%		**100%**
Survey	10%			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%**	75.00%	15.00%	10.00%	

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:

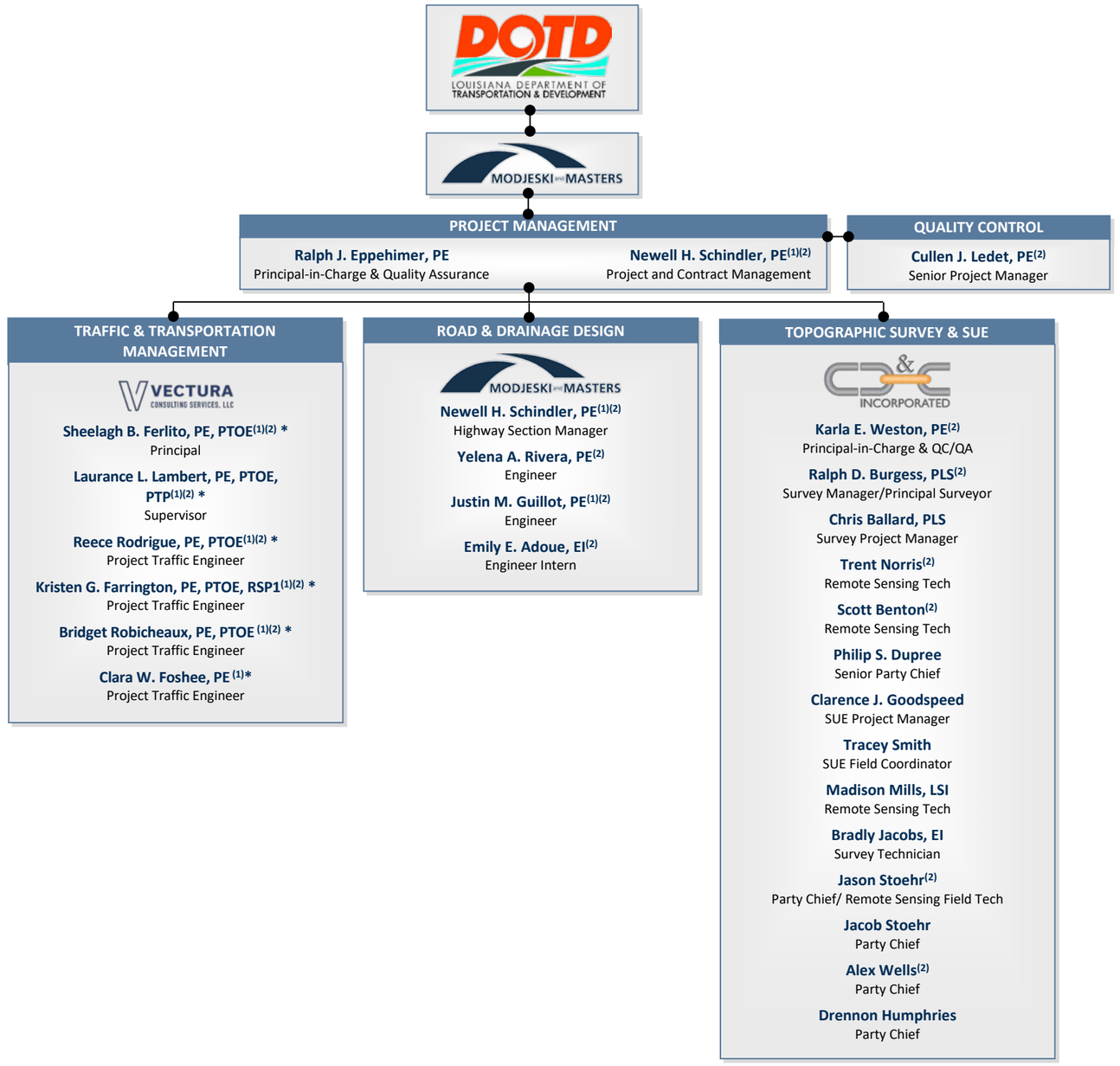
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

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 - Eng	5	15
	Supervisor - Other	0	11
	Engineer	2	6
	Engineer - Other	0	21
	Engineer Intern	2	19
	Professional	0	1
	Senior Technician	1	3
	Technician	1	2
	CADD Technician	2	9
VECTURA CONSULTING SERVICES, LLC	Supervisor	2	2
	Engineer	4	4
C&C INCORPORATED	Supervisor-Engineer	1	1
	Engineer Intern	1	1
	Surveyor	1	3
	Party Chief	3	5
	Instrument Man	2	3
	Rodman	1	2
	CADD-Operator	1	1
	Senior Technician	2	5
	Supervisor - Other	1	1

(Add rows as needed)

14. <u>Organizational Chart</u>:

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.



(1) Traffic Engineering Analysis Process & Report Training

(2) Work Zone Training

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.

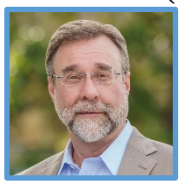
MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Ralph J. Eppehimer, PE	MODJESKI and MASTERS	Civil PE #23251	LA	3/31/2023
2	Ralph J. Eppehimer, PE		Civil PE #23251	LA	3/31/2023
3	Newell H. Schindler, PE		Civil PE #24130	LA	3/31/2024
4	Ralph Burgess, PLS	C&C INCORPORATED	PLS #5040	LA	9/30/2024
	Chris Ballard, PLS		PLS #5033	LA	9/30/2024
5	Sheelagh Brin Ferlito, PE, PTOE	VECTURA CONSULTING SERVICES, LLC	Civil PE #25383	LA	9/30/2023
	Laurence Lambert, PE, PTOE, PTP		Civil PE #29901	LA	3/31/2024

(Add rows as needed)

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**				
Name	**Ralph J. Eppehimer, PE**		Years of relevant experience with this employer	40
Title	Senior Vice President & Principal-in-Charge		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS 1982 Civil		
Active registration number / state / expiration date		23251 LA 3/31/2023		
Year registered	1989	Discipline	Civil	

Contract role(s) / brief description of responsibilities



Mr. Eppehimer has over 39 years 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 will serve as Principal-in-Charge and fulfills MPR 1 and 2 for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
4/19 – Ongoing	**US 90 Atchafalaya River Bridge Rehab. St. Mary Parish, LA** | LADOTD This project involves the complete removal and disposal of existing coatings and total painting of all main span structural metalwork including entire truss and bearings from Pier W2 to Pier E2 of the structure. M&M performed all of the painting inspection and supervised environmental monitoring services during the project. Mr. Eppehimer serves as the Principal-in-Charge.
7/18 - 11/20	**Bonnet Carre Trestle Bridge Replacement- CE&I. Laplace, Louisiana** | Canadian National Railway The existing bridge was one of three railroad crossings and a highway crossing that were built in 1934 to accommodate the construction of the Bonnet Carre Spillway. The trestle is 11,753 feet long and was opened to rail traffic in 1934. The superstructure is ballast deck timber trestle with the exception of 13 concrete fire breaks, five (5) concrete DVB spans, one (1) steel beam span and five (5) steel TPG spans. The replacement structure was designed on an offset alignment for an overall new length of 11,711' with a horizontal offset of approximately 50' east, with an exception near each end of the bridge where the alignment will transition back close to the existing track in order to utilize the old approach embankments. The new construction is precast concrete design with the superstructure composed of PPC DVB spans and the substructure consists of 1,139 24" square precast prestressed concrete piles supporting two (2) precast abutment caps with precast backwalls and 299 precast pier caps for 3, 4 and 6-pile piers. Modjeski and Masters provided professional CE&I services for the bridge replacement. These services included providing an on-site resident engineer with responsibility for daily construction inspection. Other specialized personnel was provided as needed to manage, inspect, test and otherwise oversee tasks involved with this project. Mr. Eppehimer served as the Principal-in-Charge.

8/12 – 8/18	**H.000343/H.009943 US 190 Huey P. Long Bridge Construction Engineering & Inspection (Cleaning, Painting, Repairs [Phase 1 & 2]). Baton Rouge, LA** | LADOTD This project provided construction engineering and inspection services for the through truss cantilever bridge that carries US 190 as well as one rail line over the Mississippi River in Baton Rouge, LA.. The 12,000+ foot bridge was in need of several repairs such as replacing elements in the steel approach and main spans, repairing navigation lighting, constructing retaining walls, placing guard rail, and repairing pavement. M&M also provided contract administration, paint inspection, as well as environmental monitoring services during construction. Mr. Eppehimer served as the Principal-in-Charge and Project Manager for this project.
4/15 – 3/18	**H.011482 US 90 Huey P. Long Bridge Cleaning and Painting (Segment 7). Jefferson Parish, LA** | LADOTD The Huey P. Long Bridge is a high-level, combination highway and railroad truss bridge which crosses the Mississippi River in New Orleans, Louisiana and is part of the complex urban freeway system in the area. The total structure length, including approaches, is approximately 23,000 ft. The project consisted of the development of plans and specifications for the removal of lead paint and the recoating of the original bridge trusses and bracing above bridge deck level. CE&I services and a Level 4 Transportation Management Plan were provided. Mr. Eppehimer served as the Project Manager for this project.
4/15 - 6/16	**H.009326.6 I-10/I-610 Bridge Repairs and Painting. Orleans, St. Charles and St. John Parishes, LA** | LADOTD The project provided for the complete cleaning and removal of existing coatings, application of new paint, and disposal of material in steel spans in the I-10/I-610 bridge near New Orleans, LA. Along with its sub-consultant KGC Environmental Services, Inc., M&M is providing CE&I services to perform all painting inspection and environmental monitoring services. Mr. Eppehimer was the Project Manager for this project.
5/12 - 2/14	**US 90 Huey P Long Bridge Cleaning and Painting (Segment 6). Jefferson Parish, LA |** Public Belt Railroad This project calls for plan preparation and field CE&I services to the Public Belt Railroad for the cleaning and repainting of the railroad floor system and original bottom chords of this high-level, combination highway and railroad bridge. Mr. Eppehimer was the project manager for the CE&I services involved with this project.
4/01 – 7/04	**S.P. 451-09-0015 I-20 Mississippi River Bridge Cleaning and Painting. Vicksburg, MS** | LADOTD The project involves providing CE&I services (Stage 5, Part 3) for the cleaning and repainting of this steel cantilever through truss crossing the Mississippi River. The total length of the bridge and its approaches are approximately 4,190 feet and is estimated to have approximately 1,300,000 square feet of surface area to be cleaned and painted. Mr. Eppehimer was the project manager for the CE&I services for the cleaning and repainting of the I-20 Bridge.

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**					
Name	**Newell H. Schindler, Jr., PE**		Years of relevant experience with this employer	2	
Title	Supervisor Engineer – Highway Section Manager		Years of relevant experience with other employer(s)	38	
Degree(s) / Years / Specialization			BS 1982 Civil		
Active registration number / state / expiration date			PE24130 LA 03/31/2024 Work Zone Training Compliant		
Year registered	1988	Discipline	Civil		

Contract role(s) / brief description of responsibilities:

Mr. Schindler has 41 years of experience in the management and design of infrastructure projects, 13 years of experience in the Road Design Section of LADOTD, and 28 years of experience as a Consulting Engineer which has included Project Management and design of a multitude of infrastructure improvement projects. He has extensive knowledge of current LA DOTD and the American Association of State Highway & Transportation Officials' (AASHTO) policies and design procedures. In addition, Mr. Schindler supervised the design of a multitude of road and bridge improvement projects, including complex urban interstate, urban arterial, rural arterial, and minor bridge replacement projects. Projects included coordination with Traffic Engineers and the evaluation of traffic analyses to develop capacity and safety roadway improvements, including intersections and interchanges. He completed the course "National Environmental Policy Act (NEPA) and Transportation Decision Making," sponsored by the National Highway Institute. Mr. Schindler will serve as Project Manager and will fulfill MPR 3 for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/20 - 03/22	**Cline Ave Bridge. East Chicago, Indiana | United Bridge Partners** Mr. Schindler served as lead engineer for several post construction design tasks. Performed an independent technical review (ITR) of final roadway signing and striping plans prepared by others to determine conformance with AASHTO, IDOT, and IMUTCD design criteria and guidelines. 23 non-conformance Items were identified and documented in M&M's NCR Report. Also provided the Client with 17 additional recommendations to improve the operation and safety of the Cline Ave. Bridge facility. Subsequently, prepared final construction plans to address the NCR items and recommendations. Final plans included signing and striping layouts along with sign structure details. Also prepared final plans for the installation of Guide (Attraction) signs along Indiana SR 912 and I-90 in Indiana and Illinois. Plans were prepared in accordance with IMUTCD, MUTCD and Illinois and Indiana sign guidelines. Also Served as lead engineer developing conceptual geometric layouts for two (2) proposed new partial and fully directional interchanges. at Riley Road and Cline Ave. Bridge (SR-912) (CAB). Five (5) conceptual interchange layouts were developed for the proposed Riley Rd./CAB Interchange and Three (3) conceptual interchange layouts were developed for the proposed Riley Rd./CAB Interchange and presented in a feasibility report. Conceptual roundabout layouts were developed for the ramp intersections. Developed design criteria for the proposed ramps in accordance with AASHTO and IDOT Interchange guidelines.
02/17 - 05/20	**LA 37 (Sullivan Rd. – Liberty Rd.) Stage 0 Feasibility Study (S.P. No. H.00297.1). Baton Rouge, LA | LADOTD** Mr. Schindler served as the Project Manager and Principal-in-Charge for a Stage 0 Feasibility Study to evaluate the constructability and operational feasibility of various safety and operational roadway improvement alternatives along an 8.5 mile segment of LA 37. Included the evaluation of improvements for the major intersections. Phase 1 services consisted of the, initial project research and data collection, initial site investigations, developing the Preliminary Purpose and Need and performing a traffic study for the Existing and No-Build conditions and developing the proposed improvement to carry forward to the Phase 2 Services. Phase 2 services included developing the design criteria for the evaluation of proposed safety and capacity improvement alternatives, completing segments of the Stage 0 Feasibility Study and Environmental checklist.

01/16 - 05/20	**Central City Group A (FRC) (DPW P. No. 2017-RR021). New Orleans, LA | City of New Orleans - DPW** Mr. Schindler was Project Principal, Engineer of Record and Quality Control Officer. He performed technical engineering design QC reviews for full reconstruction (FRC) of several streets (13 blocks) in the urbanized Central City Neighborhood. Project was a complex urban design due to the number of underground utilities. Mr. Schindler performed technical quality control reviews of the hydrologic and hydraulic analyses for the design of the sub-surface drainage system for a 10-year design storm in accordance with Louisiana (LA) DOTD Hydraulics Manual, along with technical quality control reviews of the design for the replacement of the existing water and sewer systems. He reviewed the designed profile grades to confirm conformance with AASHTO design criteria and LA DOTD sub-surface hydraulic criteria. He. performed technical analysis and quality control reviews of the proposed geometric details and joint layouts. Mr. Schindler reviewed calculations for quantities for all construction items. He performed quality control reviews of the final construction plans and specifications, including typical sections, plan/profile sheets, geometric detail, joint layouts and cross sections.
05/12 - 08/16	**Baker Canal Bridge Replacement (S.P. No. H000698). Baker, LA | LADOTD** Mr. Schindler was Project Principal, Engineer of Record and Quality Control Officer. Project consisted of the design for the replacement of the northbound and southbound bridges over Baker Canal, along with reconstruction of the approach roadway and geometric improvements for the US 61/LA 964 interchange. Mr. Schindler performed technical quality control reviews for all aspects of the highway design in accordance with LA DOTD and AASHTO policies and criteria. He Performed technical quality control reviews of the horizontal and vertical design and quality control reviews of the H&H analyses in accordance with LA DOTD Hydraulics manual for drainage improvements (open ditch & sub-surface drainage). Mr. Schindler performed technical quality control reviews of the preliminary and final construction plans, which included typical sections, plan/profile sheets, traffic control plans, sequence of construction, and cross section sheets. Included guard rail in accordance with AASHTO's roadside design guide. He calculated construction quantities. He reviewed RFI and provided recommendations. He also reviewed and approved plan changes and provided construction support during the construction phase.
01/99 - 09/01	**Clayton - Greenville; LA 15 (S.P. Nos. 26-03-0024 & 26-04-0025), Catahoula & Concordia Parishes, LA | LADOTD** Mr. Schindler served as Project Manager. He designed an upgrade of seven (7) miles of existing two-lane rural arterial highway to a four-lane divided, which included both a 4-lane rural with depressed median and an urban couplet with sub-surface drainage. He designed all geometric details at intersections, median cross-overs, including design of the geometric details for the realignment of the major urban intersections at LA 566 and US 165. He performed a line and grade study for the required realignment of LA 566 in order to minimize required right-of-way impacts. Mr. Schindler performed hydrologic and hydraulic calculations for the drainage design in accordance with LA DOTD's Hydraulics Manual. He prepared complete sets of construction plans, which included typical sections, plan/profiles, signing and striping layouts, design drainage maps and cross sections. He calculated all construction quantities and prepared the engineers opinion of probable construction cost (OPCC).
09/95 - 12/99	**Golden Meadow - Larose; LA 3235 (a.k.a. LA 1 Relocated) & Extension of LA 657 (S. P. Nos. 829-11-0008 & 829-26-0007). Lafourche Parish, LA | LA DOTD** Mr. Schindler served as Project Manager and Engineer-of-Record. He designed five (5) miles of a four-lane arterial on new alignment. He also designed the extension of La 657 between existing LA 1 and new LA 3235, which consisted of .5 miles of new two-lane rural highway, along with geometric design of major new intersections with existing LA 1 and new LA 3235. Mr. Schindler also prepared complete sets of construction plans for separate embankment and paving construction plans, which included typical sections, plan/profiles, signing and striping layouts, design drainage maps and cross sections. He designed plans for the relocation for a levee which crossed the new alignment.

	He performed hydrologic and hydraulic calculations for the drainage design in accordance with LA DOTD's Hydraulics Manual. Mr. Schindler calculated all construction quantities and prepared the engineers opinion of probable construction cost (OPCC).

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**					
Name	**Cullen J. Ledet, PE**		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 9/30/2023 Work Zone Training Compliant		
Year registered	2007	Discipline	Civil		

Contract role(s) / brief description of responsibilities

Mr. Ledet has been employed as a Design Engineer in the New Orleans office of Modjeski and Masters, Inc. since 2002, after having interned two summers with the firm. During this period he has been engaged in the design of both fixed and movable highway and railroad bridges. Mr. Ledet has prepared designs, plans, and specifications for a number of projects both for improvements as well as complex projects. Mr. Ledet will serve as Quality Control Officer for the contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
3/17 - Ongoing	**LA 1 – Port Allen Bridge Replacement. Port Allen, LA | LADOTD** The ongoing project consists of replacing the existing northbound and southbound bridge structures on LA 1 over the Intracoastal Canal Waterway (ICWW). The proposed LA 1 SB Bridge will consist of 3 - 12’ travel lanes and 2 - 10’ shoulders and will be approximately 2,680’ long. The proposed LA 1 NB Bridge will consist of 2 - 12’ travel lanes and 2 - 10’ shoulders (LA 1 NB roadway), a permanent 2’ wide median barrier and 1 - 12’ travel lane with 2 - 6’ shoulders (I-10 EB Exit Ramp roadway). The Exit Ramp and LA 1 NB roadway will be separated by a permanent 2’ wide median barrier until the LA 1 NB Bridge will bifurcate where the LA 1 NB roadway and I-10 EB Exit Ramp roadway will be carried on separate bridge structures. The LA 1 NB Bridge and I-10 EB Exit Ramp Bridge will be approximately 2,700’ and 354’ long, respectively. Both LA 1 NB and LA 1 SB Bridges will consist of a 870’ long haunched three span continuous steel plate girder main span unit over the ICWW and prestressed concrete LG girder approach spans. Mr. Ledet serves as Deputy Project Manager for this project and is developing the General Plan and Elevation drawings while identifying any potential conflicts with utilities and existing structures.
12/15 - 02/17	**H.010620 US 90 from Albertson Pkwy to Ambassador Caffrey Pkwy – BNSF Frontage Road Bridges. Lafayette Parish, LA | LADOTD** M&M provided an independent QC review of the frontage road bridges over the BNSF Railroad. The bridges included construction of various continuous precast prestressed concrete girder spans supported on bent columns and pile footing foundations. Mr. Ledet performed the review of the structural plans and details at every submittal milestone.
6/12 –12/16	**S.P. H.009933: MacArthur Drive Interchange. Harvey, Louisiana | LADOTD**

	The MacArthur Interchange Project consisted of the addition of two new ramps to the Westbank Expressway near MacArthur Drive, as well as the demolition of two existing ramps. M&M was responsible for the substructure design for Ramps 7 and 8 in a complex urban setting which included steel pile footings and reinforced concrete columns. M&M also provided construction related engineering support services. Mr. Ledet provided peer review services of the original design. Mr. Ledet detailed the flared reinforced concrete columns and provided construction related engineering services for this project.
01/14 - 06/15	**US 90 (Future I-49) from Albertsons Pkwy to Ambassador Caffrey Pkwy. Lafayette Parish, LA | LADOTD** As a member of the Design-Build team with C.H. Fenstermaker & Associates, M&M provided an independent QC review of the structures over the BNSF Railroad and Albertsons Parkway. Both bridges included construction of various continuous precast prestressed concrete girder Spans supported on bent columns and pile footing foundations. The structures over the BNSF Railroad included a phased sequence of construction. Mr. Ledet performed the review of the structural plans and details at every submittal milestone.
12/01 – 12/02 12/08 – 10/09	**Illinois River Bridge. Elgin, Joliet & Eastern Railway Company. Devine, Illinois** The Illinois River Bridge was originally built as four 154-foot fixed through truss spans. About 1932, Span 2 was converted to a vertical lift span and the adjacent spans fitted with lifting towers, counterweights, and an electro-mechanical operating system, providing a 120-foot clear opening. Under the provisions of the "Truman-Hobbs Act" of 1940, the USCG is funding alteration of the bridge to provide a 300-foot marine opening. The replacement vertical lift span will be 348 feet long and have a maximum lift vertical clearance of 56 feet. M&M collected relevant data, evaluated alternatives, established design criteria, cost estimates, prepared project report, and provided the final design. Mr. Ledet designed and detailed the framing for the operator house as well as the pier grillage structures.
09/08 - 02/11	**S. P. 701-65-1098 Replacement of LA3249 (Well Road) over I-20. Monroe, LA | LADOTD** This Project was the replacement of the Well Road Overpass using accelerated construction methods to construct replacement spans within the interchange R/W and over a weekend remove existing spans and install new spans. Mr. Ledet was the point of contact for Modjeski and Masters, Inc. He designed and detailed deck drainage; calculated quantities and generated construction cost estimate; construction services.
06/01 - 08/14	**S.P. 700-18-0014 Huey P. Long Bridge Widening at New Orleans, LA | LADOTD** This Project widens the existing bridge roadways through the widening of river piers using conventional and post-tension concrete, two new truss lines and 43' roadways to replace existing 18' roadways. The Project construction cost is $1.2B. This Project was a major complex design involving adding truss lines while maintaining existing traffic. Mr. Ledet assisted in the design and detail of the main river pier widening; designed and detailed plans and generated specifications for various components of the superstructure and substructure of the approaches, including steel and prestressed concrete girders; provided construction engineering support services for approaches contract.

16. Staff Experience:

<table>
<tr><td colspan="6">Firm employed by Modjeski and Masters, Inc.</td></tr>
<tr><td>Name</td><td colspan="2">Yelena A. Rivera, PE</td><td colspan="2">Years of relevant experience with this employer</td><td>0</td></tr>
<tr><td>Title</td><td colspan="2">Engineer – Highway Section</td><td colspan="2">Years of relevant experience with other employer(s)</td><td>13</td></tr>
<tr><td colspan="3">Degree(s) / Years / Specialization</td><td colspan="3">BS 2009 Civil and Environmental Engineering</td></tr>
<tr><td colspan="3">Active registration number / state / expiration date</td><td colspan="3">PE40502 LA 09/30/2024
Work Zone Training Compliant</td></tr>
<tr><td>Year registered</td><td>2016</td><td>Discipline</td><td colspan="3">Civil</td></tr>
<tr><td colspan="6">Contract role(s) / brief description of responsibilities:
 
Ms. Rivera has over 13 years of experience in the design of infrastructure projects. She has a broad knowledge of current Louisiana Department of Transportation and Development (LADOTD) and the American Association of State Highway & Transportation Officials' (AASHTO) policies and design procedures. She has worked on a variety of highway/roadway and bridge improvement projects through planning and design phases. She has also served in project management roles and performed construction administration. She has completed the following transportation related training courses:
• ATTSA - Traffic Control Technician Supervisor, LADOTD specific
• LADOTD/LTAP – Bridge Load Rating in Louisiana
• LADOTD/RPC – Design Streets for Pedestrians and Bicycles
• LADOTD/LTAP – Local Public Agency Core Training
• LADOTD/LTAP – Local Public Agency Project Planning, Feasibility & Application
• LADOTD/LTAP – Local Public Agency Construction Engineering and Inspection Training
Ms. Rivera will serve as an engineer for Road and Drainage Design.</td></tr>
<tr><td>Experience dates (mm/yy–mm/yy)</td><td colspan="5">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).</td></tr>
<tr><td>2/17 – 7/20</td><td colspan="5">Central City Group A (FRC) (DPW P. No. 2017-RR021). New Orleans, LA | City of New Orleans - DPW
Ms. Rivera served as Project Manager overseeing the Surveying, Preliminary Design, Final Design and Bidding Phases of this project. Project consisted of full reconstruction (FRC) of several streets (13 blocks) in the urbanized Central City Neighborhood of New Orleans. Project was a complex urban design due to the number of underground utilities. Included geometric design in accordance with AASHTO design criteria and ensured compliance with the Americans with Disabilities Act (ADA). Included hydrologic and hydraulic analyses for the design of the sub-surface drainage system for a 10-year design storm in accordance with the LA DOTD Hydraulics Manual, along with design of the replacement of existing water and sanitary sewer systems.</td></tr>
<tr><td>1/19 – 7/20</td><td colspan="5">Lower Ninth Ward Northeast Group C (FRC) (DPW P. No. 2019-RR105). New Orleans, LA | City of New Orleans - DPW
Ms. Rivera served as Project Manager overseeing the Surveying, Preliminary Design, Final Design and Bidding Phases of this project. Project consisted of full reconstruction (FRC) of several streets (18 blocks) in the urbanized Lower Ninth Ward Neighborhood of New Orleans. Project was a complex urban design due to the number of underground utilities. Included geometric design in accordance with AASHTO design criteria and ensured compliance with the Americans with Disabilities Act (ADA). Included hydrologic and hydraulic analyses for the design of the sub-surface drainage system for a 10-year design storm in accordance with the LADOTD Hydraulics Manual, along with design of the replacement of existing water and sanitary sewer systems.</td></tr>
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12/09 – 8/16	**Baker Canal Bridge Replacement (S.P. No. H000698). Baker, LA | LADOTD** Ms. Rivera was responsible for performing a site assessment, collecting relevant data for evaluation of potential effects on the project area, and coordination with LADOTD to prepare preliminary roadway and bridge plans. She also prepared cost estimates for both the replacement and rehabilitation of the existing bridge to perform a cost comparison. Upon approval from FHWA, the bridge replacement option was chosen and final roadway and bridge plans were prepared. Microstation software along with Inroads application was used to supplement geometric calculations for the proposed widening. The bridge consisted of 3-55' AASHTO Type II girder spans over concrete bents supported by pre-cast concrete piles. Included reconstruction of the approach roadways along with geometric improvement to the US 61/LA 964 Interchange. The project was awarded for construction in September 2014 and Ms. Rivera provided assistance during construction as required.
8/13 – 8/14	**Judge Edward Dufresne Parkway Extension Stage 0 Feasibility Study and Safety Study. St. Charles Parish, LA | New Orleans Regional Planning Commission** Stage 0 Feasibility Study was for the investigation of alternatives to extend Judge Edward Dufresne Parkway or provide emergency access to I-310 in the event of a train derailment. Ms. Rivera was responsible for conducting a windshield survey, collecting pictures and existing information and preparing geometric alignment concepts and typical section drawings for the alternatives for the Stage 0 report.
1/10 – 3/12	**I-12 to Bush Environmental Impact Statement, St. Tammany Parish, LA | LADOTD** EIS for a proposed 4-lane highway from Bush, Louisiana to Interstate 12. Ms. Rivera performed a Line and Grade study for several alternatives. The study included developing the most suitable horizontal and vertical alignments for each alternative using Microstation and Inroads software, creating typical section templates and determining cut and fill quantities.
8/10 – 5/11	**Airline Highway Bus Rapid Transit Stage 0 Feasibility Study. Jefferson Parish, LA | LADOTD** Feasibility study to evaluate the constructability and operational feasibility of the widening of Airline Highway (US 61) from Williams Boulevard to Hickory Avenue in Jefferson Parish, Louisiana to accommodate bus rapid transit. Ms. Rivera was responsible for collecting relevant data, evaluating potential environmental, cultural, and socioeconomic resources within the project area, coordinating with Jefferson Parish Drainage Department as well as LADOTD to develop conceptual design plans for improvements aimed at reducing traffic delays and traffic congestion. Ms. Rivera incorporated the Complete Streets Policy in the design and evaluated the engineering feasibility to complete a Stage 0 Checklist.
8/09 – 12/10	**LADOTD, I-12 to Bush Environmental Impact Statement. St. Tammany Parish, LA | LADOTD** EIS for a proposed 4-lane highway from Bush, Louisiana to Interstate 12. Ms. Rivera performed a Line and Grade study for several alternatives. The study included developing the most suitable horizontal and vertical alignments for each alternative using Microstation and Inroads software, creating typical section templates and determining cut and fill quantities

16. Staff Experience:

<table>
<tr><td colspan="6">Firm employed by Modjeski and Masters, Inc.</td></tr>
<tr><td>Name</td><td colspan="2">Justin M. Guillot, PE</td><td colspan="2">Years of relevant experience with this employer</td><td>2</td></tr>
<tr><td>Title</td><td colspan="2">Engineer – Highway Section</td><td colspan="2">Years of relevant experience with other employer(s)</td><td>4</td></tr>
<tr><td colspan="3">Degree(s) / Years / Specialization</td><td colspan="3">BS 2017 Civil and Environmental</td></tr>
<tr><td colspan="3">Active registration number / state / expiration date</td><td colspan="3">PE45792 LA 03/31/2024
Work Zone Training Compliant</td></tr>
<tr><td>Year registered</td><td>2021</td><td>Discipline</td><td colspan="3">Civil</td></tr>
<tr><td colspan="6">Contract role(s) / brief description of responsibilities:
 
Mr. Guillot has over 6 years of experience in the design of infrastructure projects. He has a broad knowledge of current Louisiana Department of Transportation and Development (LADOTD) and the American Association of State Highway & Transportation Officials' (AASHTO) policies and design procedures. He has also served in project management roles and performed construction administration. In addition, Mr. Guillot has completed coursework by the Federal Highway Administration (FHWA) and National Highway Institute (NHI) in Roadside Safety Design, as well as the American Traffic Safety Services Association (ATSSA). He is certified as a Traffic Control Technician, Traffic Control Supervisor, and Flagger. Mr. Guillot will serve as an Engineer for Road and Drainage Design.</td></tr>
<tr><td>Experience dates (mm/yy–mm/yy)</td><td colspan="5">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).</td></tr>
<tr><td>2/21 – 3/22</td><td colspan="5">Cline Ave Bridge. East Chicago, Indiana | United Bridge Partners
This project involves various tasks related to the recent construction of a privately-owned 1.7-mile segmental box girder toll bridge. Mr. Guillot served in a general engineering support role in performing an Independent Technical Review of final Signage and Striping Plans produced by another consulting firm for conformance with Indiana Department of Transportation (InDOT) Design Guidelines as well as the Indiana Manual on Uniform Traffic Control Devices (IMUTCD). He was also tasked with proposing recommendations to improve the safety and operation of the bridge and roadway approaches, including revisions to the pavement marking layout and the addition of various warning and regulatory signs as well as roadway delineation. He produced final construction plans which included corrections to the items found not in compliance as well as the proposed recommendations. He calculated construction quantities and compiled an opinion of probable construction cost. He also reviewed construction material submittals from the contractor for conformance with the project specifications. Another task was the creation of conceptual layouts for new interchanges along the bridge. Mr. Guillot's role included determining the appropriate ramp design criteria (design speed, travel lane and shoulder widths, cross slope, maximum grades, curve radii, etc.) and designing multiple horizontal and vertical geometries for a total of 8 ramps at 2 different interchange locations in accordance with InDOT and AASHTO's "A Policy on Geometric Design of Highways and Streets". These ramps required complex layouts due to vertical clearance issues caused by the presence of overhead utilities and at-grade railroad tracks as well as limited right-of-way availability. He also produced conceptual layout drawings to illustrate each alternative.</td></tr>
<tr><td>9/17 – 12/20</td><td colspan="5">Central City Group A (FRC) (DPW P. No. 2017-RR021). New Orleans, LA | City of New Orleans - DPW
Mr. Guillot served as Design Lead during the preliminary and final design phases then transitioned to Project Manager and Construction Administrator upon the start of the construction phase. He performed geometric design in accordance with AASHTO design criteria and ensured compliance with the Americans with Disabilities Act (ADA) for full reconstruction (FRC) of 9 city blocks in the urbanized Central City Neighborhood. The project was a complex urban design due to the number of</td></tr>
</table>

	underground utilities and limited Right-of-Way. Mr. Guillot performed hydrologic and hydraulic analyses for the design of the sub-surface drainage system for a 10-year design storm in accordance with the LADOTD Hydraulics Manual, along with design of the replacement of existing water and sanitary sewer systems. He oversaw development of the final construction plans and specifications, including typical sections, special details, plan/profile sheets, geometric details, joint layouts, and cross sections. Mr. Guillot calculated quantities for all construction bid items and compiled an Opinion of Probable Construction Cost (OPCC) which was ultimately within 1.1% of the winning contractor's bid. Upon the start of construction, Mr. Guillot was the primary point of contact for both the client and the contractor. He reviewed contractor material submittals and shop drawings for compliance with the plans and specifications. Lastly, he performed frequent site visits to ensure safe work practices were being followed and verify the contractor's implementation of proper temporary traffic control measures.
9/16 – 9/19	**Rossignol Road Bridge Replacement. Calcasieu Parish, LA | Calcasieu Parish Police Jury (CPPJ)** Mr. Guillot provided general Engineering support for the replacement of an 80' timber bridge on Rossignol Road with a precast concrete slab span bridge. He performed geometric design of the bridge alignment and roadway approaches in accordance with AASHTO design criteria. He performed hydrologic and hydraulic analyses of roadway drainage elements and designed the approach guardrails as well as the bridge abutment scour protection, all to LADOTD standards. He calculated final construction quantities and compiled an OPCC. He also assisted in the development of final construction plans and specifications.
9/17 - 12/19	**Old Spanish Trail – Evergreen Rd. Intersection Improvements. Calcasieu Parish, Louisiana | SASOL (2016-2019)** Mr. Guillot provided general Engineering support for the design of capacity intersection improvements which included the realignment of Evergreen Rd. along with the addition of left and right turn lanes at the intersection. He performed geometric design calculations in accordance with AASHTO design criteria and utilized AutoTurn to verify that the WB-67 design vehicle could successfully navigate the intersection and turn lanes given the proposed configuration. He performed hydrologic and hydraulic analyses for the design of a new sub-surface drainage system which complies with current LADOTD standards. He also oversaw the preparation of construction plans and specifications which included typical sections, plan/profile sheets, design drainage maps, geometric details, sequence of construction, signing and pavement marking details, and cross sections.
10/15 - 12/17	**Ham Reid Road Extension and Roundabout Design. Calcasieu Parish, Louisiana | Calcasieu Parish Police Jury (CPPJ) (2015-2017)** Mr. Guillot provided general Engineering support for the design of the extension of Ham Reid Road between Elliott Road and LA 384 as well as the addition of two new roundabouts at the intersections of Elliott Road at Ham Reid Road, and Graywood Parkway at LA 384. He designed preliminary roadway and roundabout geometries in accordance with AASHTO design criteria, while incorporating various green infrastructure elements. He performed preliminary hydrologic and hydraulic calculations for drainage improvements. Mr. Guillot calculated construction quantities and developed a preliminary OPCC. He also directly contributed to the preparation of preliminary plans, including typical sections, plan/profile sheets, design drainage maps, geometric details, sequence of construction, signing and pavement marking details, and cross sections.

16. Staff Experience:

Firm employed by **Modjeski and Masters, Inc.**				
Name	**Emily E. Adoue, EI**		Years of relevant experience with this employer	1
Title	Engineer Intern– Highway Section		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			MS 2020 Civil and Environmental BS 2017 Biological Engineering	
Active registration number / state / expiration date			EI34558 LA 03/31/2023 Work Zone Training Compliant	
Year registered	2020	Discipline		

Contract role(s) / brief description of responsibilities:

Ms. Adoue is a Civil Engineer Intern with Modjeski and Master's New Orleans office. She has experience in providing engineering and CAD support for the development of roadway and bridge plans and specifications, inspections, and construction oversight. She has a broad knowledge of current Louisiana Department of Transportation and Development (LADOTD), the American Association of State Highway & Transportation Officials'(AASHTO), and American Railway Engineering and Maintenance-of-Way Association's (AREMA) policies and design procedures. She is certified as a Traffic Control Technician and is proficient in utilizing MicroStation, InRoads, AutoCAD, Inventor, and HYDRWIN. Ms. Adoue will serve as an Engineer Intern for Road and Drainage Design.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/19 – 12/20	**LA 37 (Sullivan Rd. – Liberty Rd.) Stage 0 Feasibility Study (S.P. No. H.00297.1). Baton Rouge, LA | LADOTD** Ms. Adoue provided general Engineering support for a Stage 0 Feasibility Study to evaluate the constructability and operational feasibility of various safety and operational roadway improvement alternatives along an 8.5-mile section of LA 37, broken down into 3 segments. In Phase 1, Ms. Adoue performed initial project research, data collection, and site investigations to document and observe existing conditions. She assisted with the development of the Preliminary Purpose and Need Statement and contributed to the compilation of the Phase 1 report, which indicated significant safety and capacity deficiencies throughout the project area and thus justified moving to Phase 2.
12/19 – 12/20	**Central City Group A (FRC) (DPW P. No. 2017-RR021). New Orleans, LA | City of New Orleans - DPW** Ms. Adoue provided general Engineering support during the final design and construction phases for the full depth street repair project in the Central City Neighborhood of New Orleans. The project was a complex urban design due to the number of underground utilities and limited Right-of-Way. Ms. Adoue assisted with the development of the final construction plans and specifications, including typical sections, special details, plan/profile sheets, geometric details, joint layouts, and cross sections. Ms. Adoue contributed to the calculated quantities for construction bid items and compilation of an Opinion of Probable Construction Cost (OPCC) which was ultimately within 1.1% of the winning contractor's bid. She also prepared final bid tabulations. Upon the start of construction, Ms. Adoue reviewed contractor material submittals and shop drawings for compliance with the plans and specifications.
12/19 – 12/20	**Lower Ninth Ward Northeast Group C (FRC) (DPW P. No. 2019-RR105). New Orleans, LA | City of New Orleans - DPW (2019-2020)** Ms. Adoue provided general Engineering support during the preliminary design phase for full reconstruction of 12 city blocks in the urbanized Lower Ninth Ward Neighborhood. The project was a complex urban design due to the number of underground utilities and limited Right-of-Way. Ms. Adoue performed hydrologic and hydraulic analyses for the design of the sub-surface

	drainage system for a 10-year design storm in accordance with the LADOTD Hydraulics Manual, along with design of the replacement of existing water and sanitary sewer systems. She developed preliminary plans and specifications, including typical sections, plan/profile sheets, and geometric details. Ms. Adoue also contributed to the calculated quantities for construction bid items and the preliminary OPCC.
12/19 – 12/20	**Filmore South Group D (FRC) (DPW P. No. 2020-RR045). New Orleans, LA | City of New Orleans - DPW** Ms. Adoue provided general Engineering support during the preliminary design phase. She performed geometric design in accordance with AASHTO design criteria and ensured compliance with the ADA for full reconstruction of 4 streets (approx. 3800 linear feet) in the urbanized Filmore Neighborhood. The project was a complex urban design due to the number of underground utilities and limited Right-of-Way. Ms. Adoue performed hydrologic and hydraulic analyses for the design of the sub-surface drainage system for a 10-year design storm in accordance with the LADOTD Hydraulics Manual, along with design of the replacement of existing water and sanitary sewer systems. She developed preliminary plans and specifications, including typical sections, plan/profile sheets, and geometric details. Ms. Adoue also contributed to calculated quantities for construction bid items and the preliminary OPCC.
01/21 – 09/21	**Almonaster Avenue Railroad Bridge Over the Industrial Canal. New Orleans, LA | Port of New Orleans** Ms. Adoue provided general Engineering and CAD support for the bridge assessment and complete rehabilitative engineering design for the rehabilitation of the Almonaster Avenue Railroad Bridge. This project involves the partial replacement of the Almonaster Avenue Railroad Bridge, a movable Strauss-heel trunnion bridge. A 2019 assessment of the circa-1920 bridge revealed that improvements to the electrical and mechanical systems, superstructure, and counterweight were required to return this bridge to its full operating capability. Although the existing substructure could remain, modifications were deemed necessary to accommodate the rehabilitated superstructure. The necessary design plans were developed to replace the span drive and span lock machinery, operating strut, guide assembly, live load bearings, counterweight trunnion pin, and bushing. The main trunnion bearings were rehabilitated and repositioned.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**					
Name	**Sheelagh Brin Ferlito, PE, PTOE**		Years of experience with this firm/employer	7	
Title	Principal		Years of experience with other firm(s)/employer(s)	27	
Degree(s) / Years / Specialization			B.S. / 1988/ Civil Engineering		
Active registration number / state / expiration date			PE.0025383 / LA 9/30/2023		
Year registered	1993	Discipline	Civil		

Contract role(s) / brief description of responsibilities

Ms. Ferlito co-founded VECTURA in 2015 and has focused her career on traffic and transportation engineering. Her professional experience includes the development of regional planning studies, intersection and corridor improvement studies, traffic impact studies, traffic/pedestrian signal equipment design, ITS design and CE&I services for construction projects. She is familiar with Federal Highway Administration (FHWA) and Louisiana Department of Transportation and Development (LADOTD) traffic guidelines, policies and procedures. Her projects have been located in communities throughout Louisiana for both private companies and public agencies. For this contract Ms. Ferlito will perform Traffic Control Design, Traffic Signal Analysis, TMPs & Peer Review. She also 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).
07/21 - current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, Louisiana)** Brin is the task leaders 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.
07/19 – current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Brin is the lead traffic engineer for entire the New Capacity Projects program management team. **All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin.** She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.
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. She coordinated the detour plans based on the sequence of construction as part of the **Level 2 Transportation Management Plan (TMP**).
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish)** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at the Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish (Addis, LA)** Brin developed a Pedestrian Crosswalk Study and **Traffic Signal Construction Plans** for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses

	and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design (Slidell, LA)** Brin developed a formal traffic study for a proposed crosswalk with pedestrian **traffic signal equipment and pedestrian clearance timings** based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of **Traffic Signal Modification Plans** were developed to implement the recommended alternative.
04/14 – 12/14	**H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA)** As the project engineer, **Brin designed three signalized intersections** as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
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.
09/13 – 04/14	**S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA)** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included **traffic signal synchronization signal timing** and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans and specifications.
03/05 – 11/05	**Airline Hwy Widening SPN 700-99-0332 (Baton Rouge, LA)** Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included **traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate**. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.
03/05 – 11/05	**EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172 (Baton Rouge, LA)**Brin was the project engineer for the **design of 66 signalized intersections** on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Laurence Lucius Lambert, II, PE, PTOE, PTP**		Years of experience with this firm/employer	7
Title	Supervisor		Years of experience with other firm(s)/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	2001	Discipline	Civil	

Contract role(s) / brief description of responsibilities

Mr. Lambert co-founded VECTURA in 2015 and has performed traffic services ranging from transit facility location studies to corridor studies that focus on complete street improvements. He also performed intersection / corridor studies for some of the most complicated corridors in the state of Louisiana using HCM and microsimulation tools to tackle these projects. Laurence also developed transportation components of several city, parish and regional comprehensive master plans. He currently serves as the Chair on the East Baton Rouge Complete Street Citizen Advisory Committee and the Board of Directors for the Capital Area Transit System (CATS). Laurence also taught the transportation engineering course in the Civil Engineering department at the University of New Orleans as an adjunct instructor. For this contract Mr. Lambert will perform Traffic Control Design, Traffic Signal Analysis, TMPs & Peer Review. He also 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).
06/21 – 02/22	**H.013267 Capital Area Pathways Project (Baton Rouge, LA)** Laurence was project manager for a traffic study to evaluate trail crossings at three state routes that required DOTD approval. The traffic study included traffic data collection, safety analysis, existing conditions analysis and alternative analysis. Laurence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA guidance to develop the most effective trail crossing alternatives.
07/19 – current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the **travel demand model** to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided **peer review** for the traffic studies for Ben Hur Road and Lee Drive.
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 Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** 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 Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. After the 7-day, 24-hour counts were collected in March of 2020, DOTD stopped all data collection due to the impacts of COVID-19. After a pause of a year, Vectura closely worked with the City of Baton Rouge and DOTD to provide sufficient data that traffic patterns were returning to pre-COVID conditions and allowed PM peak hour data to be collected. Vectura collected, turning movement

	counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
09/17 - 04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell LA** Brin developed a formal traffic study for a proposed crosswalk with pedestrian **traffic signal equipment and pedestrian clearance timings** based on DOTD requirements. Brin assisted with **vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street**. From the design study, a set of **Traffic Signal Modification Plans** were developed to implement the recommended alternative.
10/17 - 10/18	**H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA)** Laurence was the lead transportation engineer for a **Corridor Planning Study** for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to **develop growth rates and design year volumes**. Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a **safety analyses** of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA)** Laurence was the lead traffic engineer for a **DOTD traffic study** for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, **collected 7-day, 24-hour counts** w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM **traffic simulation model** of the preferred alternative.
07/16-01/17	**FHWA Intersection & Interchange Geometrics (IIG): Innovative Design Considerations for All Users** At the request of the FHWA division office for Virginia, Laurence was asked to **review a set of design plans** for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
06/16 - 09/17	**H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA)** Laurence performed a **Stage 0 Feasibility Study** for roundabouts at ten intersections in the Lafayette area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Laurence, along with Brin, **collected 7-day, 24-hour counts w/ classification, turning movement counts for peak periods and speed data for mainlines**. Once the traffic data was collected, Laurence performed **traffic signal warrants analyses**, performed a Sidra unsignalized, signalized and roundabout analyses. After the analyses were completed, Laurence developed a report that captured the results.
09/06 - 09/07	**EBR 06-CS-HC-00012 Downtown Baton Rouge Signal Project (Baton Rouge)** Laurence was the Project Manager to develop **construction plans to upgrade 29 signals** in downtown Baton Rouge as part of the EBR Green Light Plan. Laurence developed a design study that included **traffic data collection**, handicap ramp recommendations, countdown pedestrian signals and internally illuminated street name signs.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Reece Rodrigue, PE, PTOE**		Years of experience with this firm/employer	3
Title	Project Traffic Engineer		Years of experience with other firm(s)/employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2013/ Civil Engineering	
Active registration number / state / expiration date			PE.0042074 / LA / 3/31/2024	
Year registered	2017	Discipline	Civil	

Contract role(s) / brief description of responsibilities

Mr. Rodrigue is an experienced transportation engineer who has performed traffic data collection, traffic signal warrants, traffic studies, safety studies, temporary traffic control design and modifications. He is proficient in the use of the latest traffic engineering software tools to aid in the completion of these projects. He also has an appreciation for pedestrian signalization crosswalks, and maintaining ADA compliance. He is familiar with local, state, and federal traffic engineering guidelines and policies. Mr. Rodrigue will serve as a Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design, TMPs and Peer Reviews for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21 - current	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This projected included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
07/21 – Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge)** 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.
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.
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.
04/20 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse)** Reece is the project engineer responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. The design of the temporary signals is set 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, which were also used in planning for the permanent and temporary signal timing plans. Reece is also a valued design engineer 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. Reece maintains correspondence with the fellow design engineering team for product consistency. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Reece was the task leader for organizing and formatting the **data collection** 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.
07/19 – 12/19	**Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA** Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16 - 12/16	**H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish)** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using the CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16 – 11/17	**Ochsner Main Campus Traffic Signals (Jefferson Parish)** Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.

16. Staff Experience:

Firm employed by **Vectura Consulting Services, LLC**				
Name	**Kristen Gahagan Farrington, PE, PTOE, RSP1**		Years of experience with this firm/employer	1
Title	Project Traffic Engineer		Years of experience with other firm(s)/employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2014/ Civil Engineering	
Active registration number / state / expiration date			PE.0042785 / LA / 3/31/2023	
Year registered	2016	Discipline	Civil	

Contract role(s) / brief description of responsibilities

Ms. Farrington has performed numerous Stage 0 and other traffic design studies for the LADOTD. Kristen fully understands the National Environmental Policy Act (NEPA) process as it relates to transportation engineering studies and can deliver traffic studies for federal and state approval. Kristen is also an expert at MicroStation as well other traffic analysis software. Kristen took formal Geographic Information Systems (GIS) training and can utilize the GIS software to present crash data and other environmental information. Ms. Farrington will serve as Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design, TMPs and Peer Reviews for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
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.
08/21 – 04/22	**H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study (Baton Rouge, LA)** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting **vehicular speed and volume data** at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the *FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations* were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area.
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.
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 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 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.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 (LA 74 to LA 621) (Ascension Parish)** 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	**Bridget Scheyd Robicheaux, PE, PTOE** (Part-Time)	Years of experience with this firm/employer	5
Title	Senior Project Engineer	Years of experience with other firm(s)/employer(s)	9

Degree(s) / Years / Specialization			B.S. / 2007/ Civil Engineering; M.S. / 2014/ Civil Engineering
Active registration number / state / expiration date			PE.0041272 / LA / 3/31/2023
Year registered	2016	Discipline	Civil

Contract role(s) / brief description of responsibilities

Ms. Robicheaux obtained her master's degree in Civil Engineering at LSU with her research focused on transportation and highway safety. Bridget's professional experience includes work in both the private and public sector where she worked for Louisiana Department of Transportation and Development Traffic Engineering Section. She has developed numerous traffic and safety studies and is well-versed in the latest traffic engineering software packages and the standards of practice for transportation and traffic studies. Ms. Robicheaux will serve as Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design, TMPs and Peer Reviews for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/21 – current	**H.007160 EBR Computerized Traffic Signal, Phase VB (Baton Rouge)** Bridget has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Bridget also reviewed the traffic signal supports and documented all of her comments in a quality control tracker spreadsheet.
06/21 - 06/21	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** Bridget assisted with the **traffic signal design of 13 signals** along three corridors: Plank Road, 22nd Street and US 190 (Florida Street).
03/21 - 07/22	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA)** Bridget is part of the team responsible for **Construction Engineering and Inspection**. Bridget has reviewed the signal mast arm shop drawings (checking pole quantities and markups) to assist the City-Parish of Baton Rouge in accepting the manufactured poles.
04/20 - 07/20	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA)** Bridget assisted the project engineer who **designed the temporary traffic signal** for the intersection of LA 23 at Engineers Rd by pulling crash data along LA 23, reviewing and summarizing crash reports, and performing CATScan analysis.
04/19 - 01/20	**Traffic Studies for Broussard Middle School and Billeaud Elementary School (Lafayette Parish, LA)** Bridget was the project engineer for developing a Traffic Study for two school entrances in Broussard, LA. Her project tasks included traffic data collection, forecast traffic volume development, existing traffic analyses and future traffic analyses using HCM software. She performed turn lane warrants based on NCHRP Report Number 457 as well as storage lengths based on queues and DOTD requirements.

07/19 – current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Bridget assists Brin on a daily basis for the entire New Capacity Projects program management team. Bridget has performed multiple **reviews of traffic studies and traffic signal designs**. This includes reviewing raw data, unmet demand, volume maps, existing and build analyses, and safety analyses for accuracy and consistency throughout the report. She provides comments in a spreadsheet known as the Comment Tracker. All comments are posted in the Comment Tracker so that all parties are aware. Many of these projects are located on state routes and require approval by the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects. Using methods outlined in NCHRP 765, Bridget helped to develop design year volumes for the Jones Creek (Airline to Jefferson) MOVEBR project. She has developed Turn Lane tech memos for the MOVEBR Old Hammond Highway Segments 1A and two projects and for the MOVEBR Highland at Siegen project.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA** Bridget assisted Brin with the crosswalk study by pulling and formatting the crash data. She also assisted Brin with the crash analysis and formatting the findings.
10/17 - 07/18	**Travel Demand Model Update: Southeast Louisiana Travel Model (New Orleans, LA)** Bridget developed base year traffic volumes to calibrate and test of the regional travel demand as part of **updating the New Orleans Regional Planning Commission Travel Demand Model in TransCAD**. Specifically, Bridget obtained and reviewed the over 4,000 traffic counts (cars / trucks) that were used in the validation of the SELATRAM model to check for consistency, reasonableness, and completeness. She tabulated her results in a spreadsheet that was included in a technical memorandum.
09/17 - 11/17	**US 11 (Front St.) at US 190 Bus. (Fremaux Ave.) Traffic Study (St. Tammany Parish, LA)** Bridget participated in the development of a Crosswalk Traffic Engineering Study for the City of Slidell as part of improvements to the intersection of US 11 (Front St.) at US 190 Bus. (Fremaux Ave.). Bridget processed raw traffic videos and developed **AM and PM peak period turning movement vehicle count** figures. She also assisted Brin with a PTV Vistro model for the AM and PM Peaks for the five intersections for capacity analyses as well as progression analyses. She also developed portions of the report.
02/17 - 10/17	**Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA)** Bridget participated in the development of a **Stage 0 Feasibility Study** for roundabouts at four intersections in St. Tammany Parish. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Bridget developed traffic **turning movement counts** for morning and evening peak periods including peak hour factor and heavy vehicle percentages. Growth rates for **design year volumes** were also developed based on information provided from the **TransCAD model**. She performed portions of the Sidra unsignalized, signalized and roundabout analyses for implementation and design years and report development.

16. Staff Experience:

Firm employed by	**Vectura Consulting Services, LLC**			
Name	**Clara Williams Foshee, PE** (Part-Time)		Years of experience with this firm/employer	1
Title	Senior Project Engineer		Years of experience with other firm(s)/employer(s)	5
Degree(s) / Years / Specialization		B.S. / 2015/ Civil Engineering		
Active registration number / state / expiration date		PE.0044568 / LA / 09/30/2024		
Year registered	2020	Discipline	Civil	

Contract role(s) / brief description of responsibilities

Ms. Foshee earned her license while working for the Traffic Operations Section of the Louisiana Department of Transportation and Development. Experienced with numerous types of traffic design studies and reports, multiple traffic simulation and analysis software programs, the design and implementation of signal timings and coordination, data collection and analysis, and traffic impact studies, Clara has a thorough understanding of the Louisiana Department of Transportation and Development Traffic Engineering Process and Report. She has also given presentations at traffic engineering conferences on various projects she has worked on. Ms. Foshee will serve as Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design, TMPs and Peer Reviews for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/22 – current	**H.014746.1 Stage 0 LA 383 (Iowa, LA)** Clara is performing the **safety analysis** for this corridor study. She will develop Appendix C and the corresponding sections in Chapter 2 to comply with the DOTD TEPR process.
05/22 – current	**H.012370 Morrison Road Traffic Study: Mayo Boulevard to Bullard Avenue (New Orleans, LA)** Clara was the project engineer for a corridor study that evaluated reducing travel lanes to incorporate bike lanes. The study included **peak hour determination, turning movement counts with unmet demand, safety analysis, and intersection analyses using HCS 2023**. The study followed the DOTD TEPR process since the project received federal aid and will be reviewed by DOTD.
02/22 – 06/22	**MOVEBR Direct Select for Traffic Signal Design (Baton Rouge, LA)** Clara provided quality control for several components of this project. She reviewed the **traffic volume and safety** sections of several intersection design studies. She also verified the **estimated quantities for several traffic signal design plans**.
08/21- 07/22	**H.005168 NORG - Avondale PEL Study (Avondale, LA)** Clara provided quality control for Appendix C (Safety) and Chapter 2 (Existing Conditions), as well as assisted with the completion of Appendix D (Existing and No Build Analysis). The study followed the DOTD TEPR process and was reviewed by DOTD.
07/21 – current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Clara has verified **turn lane length calculations, vertical tree clearances, safety analyses, pedestrian countermeasures,** and other quality control reviews to assist the City of Baton Rouge with their reviews.
10/18 – 12/18	**Traffic Engineering Process and Report Flowchart (Hammond, LA)** Clara served as Lead engineer in the design and production of a flowchart depicting the assembly of the new **Traffic Engineering Process and Report Flowchart**. While working as a staff member in DOTD District 62, she took the initiative

	to create a document clearly showing how the new Traffic Engineering Process and Report should be assembled via flowchart. This flowchart was intended to be used internally throughout District 62 but was seen and admired by DOTD Headquarters and spread throughout the state to serve as a supplemental guide for the creation of the new Traffic Engineering Process and Report.
1/19 – 3/19	**Unserviced Demand Data Collection and Peak-Hour Determination Spreadsheets (Hammond, LA)** Clara was a traffic engineering team member in the design and production of a set of spreadsheets intended to **standardize how unserviced demand is collected and how peak-hours are determined from peak-periods**. Working closely with fellow traffic engineers at District 62, she co-created a document containing multiple spreadsheets designed to allow the input of unserviced demand data collected in the field for various intersection types and configurations. This document then output reliable and accurate unserviced demand data to be used in studies and reports throughout District 62. While creating this unserviced demand document, she concurrently co-created a document containing multiple spreadsheets designed to determine the most appropriate and accurate peak-hour from a given set of volumes over a peak-period. Both documents took weeks to create and were continuously reviewed and edited to ensure they were as accurate as possible.

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

Ms. Weston founded Civil Design & Construction, Inc. in 2005. She has 20 years of experience in roadway design with emphasis on roadway geometric and drainage design for numerous state and municipal projects. She also has extensive background in Cost Engineering, Estimating, and Scheduling for massive Civil Works projects throughout the US. 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** Ms. 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** Ms. 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** Ms. 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** Ms. 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 Hurrican 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** Ms. 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		
5040			5040 / Louisiana / March 31, 2024		
Year registered	2004	Discipline	Land Surveyor		

Contract role(s) / brief description of responsibilities

Mr. Burgess will serve as the Survey Manager for this IDIQ Contract. 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#4 for this contract.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
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–Ongoing	**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.
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** Mr. 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.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.
03/14-06/14	**H.008369 Cleo Road Roundabout, St. Tammany Parish, LA** Mr. Burgess served as the project manager for the project. CD&C was responsible for the topographic survey that began approximately 2400 ft. NW of intersection of I-59 and US Hwy 1090 and ended approximately 1000 ft. NW of intersection of I-59 and US Hwy 1090. The survey also included 500 ft. of Cleo Road and 175 ft. of Avenue D.
05/13-07/13	**H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA** Mr. Burgess served as Survey Manager 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.

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**				
Name	**Chris Ballard, PLS**		Years of relevant experience with this employer	6	
Title	Principal Land Surveyor		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, 2024			
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#4 for this contract.

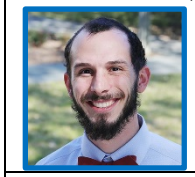
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/18-01/20	**H.004100 I-10: LA 415 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.

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	Land Survey Intern		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	2022	Discipline	Land Surveyor		

Contract role(s) / brief description of responsibilities



Mr. Mills joined CD&C in 2021 as a Land Surveying Intern. Madison obtained his PLS Licensed in 2022 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).
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	**Civil Design & Construction, Inc. (CD&C)**		
Name	**Clarence J. Goodspeed**	Years of relevant experience with this employer	1+
Title	Utility Coordinator	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization			
Active registration number / state / expiration date			
Year registered		Discipline	

Contract role(s) / brief description of responsibilities

Mr. Goodspeed has 30 years' experience in underground utilities. Mr. Goodspeed has been involved in almost every aspect of underground utilities and His knowledge of reading multiple utility companies prints and understand how their systems are installed makes him a great asset to managing CD&C Sue department. The following is a list of companies and job roles.

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).
09/22 – On-Going	**(Proj# Not Available) BRMA Northwest Aviation Development** Mr. Goodspeed serves as the firms SUE PM for the project. He is overseeing and working with CD&C SUE personnel 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 standards set forth by City/Parish government for East Baton Rouge.
03/22 – On-Going	**H.011833.5 St. Mary Street Sidewalks; Scott, LA** Mr. Goodspeed serves as the firms SUE PM for the project. He is overseeing and working with CD&C SUE personnel 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.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA** Mr. Goodspeed serves as the firms SUE PM for the project. He is overseeing and working with CD&C SUE personnel 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.
01/99 – 01/2000; 01/01 – 12/03; 01/12 - 04/12; 01/13 – 03/22	**BHA Engineering** Damage prevention tech (Underground Locator) contracted to Demco Electric to locate their underground facilities.
01/20 – 12/20	**Wave Tech Geophysical Engineering** Conducted SUE work, vacuum excavation, ground penetrating radar, road pavement GPR, leak detection, researching utility prints, and conducting locates on military facilities and airports.
07/06-12/06	**Bron Construction** Assisted in maintenance, and new construction of Entergy Electric underground and some overhead lines.

12/03 – 07/06	**UtiliQuest LLC** Supervisor, Damage Investigator, State Claims Manager, and Operations Manager. Also, took part in negation of contracts.
04/12-12/12	**Fibore** Filled in as supervisor for burying Charter Communication service drop crews, installation of main and service drops with directional boring rig, assisted in settling property damage claims, and assisted in pointy of contact with Charter Construction personal.

16. Staff Experience:

Firm employed by **Civil Design & Construction, Inc. (CD&C)**					
Name	**Tracey Smith**		Years of relevant experience with this employer	1+	
Title	Utility Coordinator		Years of relevant experience with other employer(s)	24	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date					
Year registered		Discipline			
Contract role(s) / brief description of responsibilities **Mr. Smith** has over 24 years' experience in underground utilities. Mr. Smith has worked in the gas field for 3 years and spent 19 years performing various underground utility locations and serving as a supervisor for a number of locate technicians.					

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).
09/22 – On-Going	**(Proj# Not Available) BRMA Northwest Aviation Development** Mr. Smith serves as the firms SUE field chief for the project. He is working in the field 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 standards set forth by City/Parish government for East Baton Rouge.
03/22 – On-Going	**H.011833.5 St. Mary Street Sidewalks; Scott, LA** Mr. Smith serves as the firms SUE field chief for the project. He is working in the field 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.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA** Mr. Smith serves as the firms SUE field chief for the project. He is working in the field 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.
01/11 – 12/21	**USIC** Mr. Smith served as a utility claims adjuster for damages for 10 years.
01/20 – 1/11	**Wave Tech Geophysical Engineering** Conducted SUE work, vacuum excavation, ground penetrating radar, road pavement GPR, leak detection, researching utility prints, and conducting locates on military facilities and airports.
07/06-12/06	**Utilquest** Mr. Smith served as the lead supervisor in charge of day to day operations for damage utility technicians performing underground utility locations of various utilities.
01/98 – 01/20	**Sprint** Mr. Smith was a damage prevention technician for various communication utilities

16. Staff Experience:

Firm employed by	**Civil Design & Construction, Inc. (CD&C)**			
Name	**Trent Norris**		Years of relevant experience with this employer	8
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).
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	**Scott Benton**		Years of relevant experience with this employer	5	
Title	Senior Technician		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date			ATSSA Traffic Control Supervisor, Technician & Flagger		
Year registered		Discipline			
Contract role(s) / brief description of responsibilities			Mr. Benton serves as a Senior Technician specializing in 3D Terrestrial Scanning, processing, and extraction.		

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 – 01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA** Mr. Benton served as a #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.
03/14 – 06/14	**H.008369 Cleo Road Roundabout, St. Tammany Parish, LA** Mr. Benton served as a Senior Technician on this project processing survey field data. CD&C was responsible for the topographic survey that began approximately 2400 ft. NW of intersection of I-59 and US Hwy 1090 and ended approximately 1000 ft. NW of intersection of I-59 and US Hwy 1090. The survey also included 500 ft. of Cleo Road and 175 ft. of Avenue D.
05/13 – 07/13	**H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA** Mr. Benton served as a Survey Crew Instrument Man and later as a technician on this project processing survey field data. 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.
02/13 – 06/13	**H.005693 LA 447, Walker, LA** Mr. Benton served as a Survey Crew Instrument Man and later as a technician on this project processing survey field data. CD&C's responsibilities included all field work, utility coordination, review of existing survey data provided by LADOTD and all office work to produce the final product; this includes merging of supplied survey from LADOTD and survey by CD&C. CD&C also performed the tie-in of the new survey to the existing survey provided by LADOTD to produce an overall deliverable to be utilized in this design.
10/14 – 12/14	**H.011088.5 West Prien Lake, Lake Charles, LA** Mr. Benton served as Survey technician on this project processing survey field data. 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.

16. Staff Experience:

Firm employed by **Civil Design & Construction, Inc. (CD&C)**					
Name	**Bradley Jacobs, EI**		Years of relevant experience with this employer	1+	
Title	Engineering Intern		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization			BS / 2015 / Civil Engineering		
Active registration number / state / expiration date			No. 0032456 / Louisiana / 09/30/2023		
Year registered	2015	Discipline	Engineering Intern		
Contract role(s) / brief description of responsibilities * Dates not included as work was done at previous Employer			Mr. Jacobs will 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).
*	**Albany Annex** Worked on the boundary survey for extending the town limits of Albany, Louisiana. I went to the courthouse and did title research for the properties that were obtained for the annex. I set the new boundary lines for the new town limits. I also drew the map showing the boundary of the properties that were obtained.
*	**Pecue Lane** Worked on Right of Way maps and the Traverse Control Sketch. For the Right of Way maps, I set where the monuments will be in the office. I also calculated the bearings and distances between each right of way monument. I also wrote the legal descriptions for the Right of Way and verified that it matches the maps. I also created the control sketch based off the traverse. All drawings were created up to DOTD Standards.
*	**Essen Lane Control** Worked on Right of Way maps in the office and helped set monuments in the field. I set the points for all the right of way monuments in the office and then went to the field to assist the crews in staking out and setting the monuments 2021 Bellacosa Residential Subdivision - Generate Point file for the survey crew to stakeout the property corners for each lot within the subdivision.
*	**Pollard Branch** Wrote the legal descriptions for three different tracts. The legal descriptions reflected the overall boundary survey maps. Topographic Surveys
*	**Jefferson and Corporate Interchange Survey** Created the GPS control sketch that shows the traverse for the survey.
*	**I-12 to Bush** Worked as a rodman. We cut cross sections every 100 feet for road improvements and did a topographic survey using total stations.

16. Staff Experience:

Firm employed by **Civil Design & Construction, Inc. (CD&C)**				
Name	**Philip Dupree**		Years of relevant experience with this employer	10
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.
01/18-02/20	**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.
07/17-12/18	**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.
10/15-12/18	**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.
01/16-08/16	**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.
10/16-11/16	**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.
07/14/10/15	**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 **Civil Design & Construction, Inc. (CD&C)**			
Name	**Jacob Stoehr**	Years of relevant experience with this employer	7
Title	Survey Party Chief	Years of relevant experience with other employer(s)	1.5
Degree(s) / Years / Specialization			
Active registration number / state / expiration date		ATSSA TCS, TCT, Flagger	
Year registered		Discipline	
Contract role(s) / brief description of responsibilities		Mr. Stoehr will serve as a Survey Party Chief managing a crew to collect topographic data in the field in accordance with LADOTD Location and Survey means and methods.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/18-01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA** Mr. Stoehr served as a 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.
07/17-12/18	**H.010960.5-2, LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
08/16-01/18	**H.011235 I-49 Verot School Road, Lafayette, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
05/17-07/2017	**H.011909.5-2 Roundabout US 171 at Boone Street, Vernon Parish, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
01/16-08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
10/15 – 12/18	**H.003184.5 I-10 Texas State Line East of Coone Gully** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
10/16 – 11/16	**H.012728.5 LA 443 Emergency Bridge Replacement, Tangipahoa Parish, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.

16. Staff Experience:

Firm employed by **Civil Design & Construction, Inc. (CD&C)**					
Name	**Jason Stoehr**		Years of relevant experience with this employer	5	
Title	Survey Party Chief		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization					
Active registration number / state / expiration date			ATSSA Traffic Control Technician, Flagger		
Year registered		Discipline			
Contract role(s) / brief description of responsibilities			Mr. Stoehr will serve as a Survey Party Chief managing a crew to collect topographic data in the field in accordance with LADOTD Location and Survey means and methods.		

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. Stoehr was a Party Chief on 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.
08/16-01/18	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA** Mr. Stoehr 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.
07/17-12/18	**H.010960.5-2, LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
08/16-01/18	**H.011235 I-49 Verot School Road, Lafayette, LA** Mr. Stoehr served as one of the Survey Party Chiefs on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
02/19 - 09/19	**Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA** Mr. Stoehr served as a Jr. Party Chief 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.
7/17 – 12/18	**H.003184.5 I-10 Texas State Line East of Coone Gully** Mr. Stoehr served as an instrument man on this project by aiding the crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.

16. Staff Experience:

Firm employed by **Civil Design & Construction, Inc. (CD&C)**				
Name	**Alex Wells**		Years of relevant experience with this employer	2.5
Title	Survey Party Chief		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization				
Active registration number / state / expiration date			ATSSA TCS, TCT, Flagger	
Year registered		Discipline		
Contract role(s) / brief description of responsibilities			Mr. Wells joined CD&C in 2020 as a Rodman and has worked his way up to a Party Chief. He will work managing a crew to collect topographic data in accordance with LADOTD code book and standard procedures.	

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 – 10/21	**H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek** Mr. Wells worked as Survey Party Chief on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
07/20 – 10/21	**H.013989 Greybow Rd. Palmetto Creek** Mr. Wells worked as Survey Party Chief on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
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. Wells was an Instrument Man on this project. CD&C was 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.
02/21 – 05/21	**H.009290.5 Safe Routes to Schools – LSU Sidewalk Improvement near LSU Lab School, Baton Rouge, LA** Mr. Wells worked as Survey Party Chief on this project by managing a crew in the collecting of topographic data in the field utilizing LADOTD Field Codes.
10/20 – 01/21	**H014302 US 165 Lighting, Monroe, LA** Mr. Wells was an Instrument Man on this project. CD&C was a sub-consultant on this project 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.

16. Staff Experience:

Firm employed by **Civil Design & Construction, Inc. (CD&C)**				
Name	**Drennon Humphreys**		Years of relevant experience with this employer	2
Title	Engineering Intern		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization				
Active registration number / state / expiration date			Flagger, TCT	
Year registered		Discipline		
Contract role(s) / brief description of responsibilities * Dates not included as work was done at previous Employer			Mr. Humphreys will serve as a Survey Party Chief managing a crew to collect topographic data in the field in accordance with LADOTD Location and Survey means and methods.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/21 – 06/21	**H.013959 Reeds Bridge Rd. Calcasieu River Relief, Allen Parish, LA** Mr. Humphreys served as a Instrument Man for this project. CD&C was a sub-consultant on this project is responsible for topographic and ROW surveying for this rural bridge replacement project.
02/21 – 05/21	**H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek, Allen Parish, LA** Mr. Humphreys served as a Instrument Man for this project. CD&C was a sub-consultant on this project is responsible for topographic and ROW surveying for this rural bridge replacement project.
02/21 – 01/22	**Move BR: Lee Drive – Highland Rd. to Perkins Rd., Baton Rouge, LA** Mr. Humphreys served as a Instrument Man for this project. CD&C was a sub-consultant on this MoveBR widening project is responsible for topographic and ROW surveying for this 1.8 mile road improvement project as part of the Move BR infrastructure initiative.
04/21 – 12/21	**Move BR: Hennessy Blvd. –Perkins Rd. to Picardy Ave., Baton Rouge, LA.** Mr. Humphreys served as a Instrument Man for this project. CD&C was a sub-consultant on this MoveBR widening project is responsible for topographic and ROW surveying for this 0.4 mile road improvement project to create an underpass at the R/R crossing. This project is a part of the Move BR infrastructure initiative.
01/22 – On-Going	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2** Mr. Humphreys is working as a Instrument Man and now a Party Chief on this Louisiana Watershed Initiative project. He has been responsible for collecting topographic data at various bridge locations that will go into the watershed model for this area. CD&C is a sub-consultant on this project.
01/22 – 05/22	**H.013956 Beamon Rd. Bayou Maringouin, Pointe Coupee Parish, LA** Mr. Humphreys served as a Instrument Man for this project. CD&C was a sub-consultant on this project is responsible for topographic and ROW surveying for this rural bridge replacement project.

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge, Road	
Project name	**Huey P. Long Bridge Widening**		Firm responsibility (prime or sub?)	Prime	
Project number	700-18-0014	Owner's name	Louisiana Department of Transportation and Development		
Project location	Jefferson Parish, LA		Owner's Project Manager	Ray Mumphrey, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802, (225) 379-1067, Ray.Mumphrey@la.gov				
Services commenced by this firm (mm/yy)	12/1986	Total consultant contract cost ($1,000's)		$25,864	
Services completed by this firm (mm/yy)	08/2012	Cost of consultant services provided by this firm ($1,000's)		N/A	

The existing Huey P. Long Bridge is a high-level, combination highway and railroad bridge which crosses the Mississippi River in New Orleans, Louisiana and is part of the complex urban freeway system in the area. M&M designed the original structure and provided construction supervision from 1925 until 1936. The original design called for two 9' vehicular lanes (in each direction) to be bracketed from the trusses; this design no longer provides adequate capacity. LADOTD engaged Modjeski and Masters, Inc. for services to study conceptual means to widen the existing bridge to provide three 11-foot vehicular lanes and shoulders in each direction. In addition to the structural design for the major bridge widening Modjeski and Masters provided the following roadway design services:

- Roadway design work was required at the at-grade intersections on the Westbank and Eastbank to provide an updated and functional interchanges
- Design of a complete reconfiguration of the Clearview Parkway-Jefferson Highway intersection to a standard signalized diamond interchange. Design of a complete reconfiguration of the West Traffic Circle with a standard signalized diamond interchange.
- Modifications to Clearview Parkway to tie-in the new elevated bridge approaches. Integration of the new elevated bridge approaches into the at-grade US 90 roadways on the south side of Bridge City Avenue.
- Design of a complete reconfiguration of the US 90-LA 18/West Nine Mile Point Road intersection to accommodate the relocated US 90 Westbank Bound.
- Maintenance of Traffic and Sequence of Construction plans were developed to determine the specific roadway design to be used in any given location since existing and required pavements overlapped in many areas.
- Office support for construction was provided to check thousands of shop drawings, handle RFI's and consult as needed in support of a construction monitoring team by others for the project.

Personnel Involved: ***Ralph J. Eppehimer, PE, Dave A. Kanger, PE, Cullen J. Ledet, PE, Lance V. Borden, PE, Jeff W. Newman, PE, Stacey P. Carr, PE, Jon E. Gerhart, PE***

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge, Road	
Project name	**LA 16 over Tangipahoa River Bridge Replacement**		Firm responsibility (prime or sub?)	Prime	
Project number	H.013183	Owner's name	Louisiana Department of Transportation and Development		
Project location	Tangipahoa Parish, LA		Owner's Project Manager	Stephanie Doolittle, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1329, Stephanie.Doolittle@la.gov				
Services commenced by this firm (mm/yy)	09/17		Total consultant contract cost ($1,000's)	$454	
Services completed by this firm (mm/yy)	03/21		Cost of consultant services provided by this firm ($1,000's)	$380	

M&M developed all necessary topographic surveys, preliminary and final plans for this bridge replacement project on LA 16, between LA 51 and LA 1054, in Amite City, LA. This project included reconstruction of the approach slabs and roadway on the east and west sides of the bridge. It was anticipated that traffic shall be maintained during construction with an on-site diversion roadway and bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges, DOTD Road Design Manual, and DOTD Hydraulics Manual. QC/QA was provided in accordance with Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was provided and is currently on-going.

M&M developed and delivered the following project documents:

- Final Roadway plans
- Final bridge design
- Final bridge plans
- Final temporary diversion and bridge plans
- Transportation Management Plan (TMP) Level 2
- Construction Signing Plans
- Design Waivers and Exceptions
- Final Roadway and Bridge Quantities
- As Design Ra**ting**
- Construction Cost Estimate
- Special Provisions

PERSONNEL: ***Yu Ouyang, PE, Jared R. Weisman, PE, Lindsey A. Woolverton, PE, Cullen J. Ledet, PE***

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**	Past Performance Evaluation Discipline(s)*	Bridge, Road
Project name	**US 61 at Thompson Creek Bridge Replacement**	Firm responsibility (prime or sub?)	Prime
Project number	H.013193	Owner's name	Louisiana Department of Transportation and Development
Project location	St. Francisville, LA	Owner's Project Manager	Stephanie Doolittle, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1329, Stephanie.Doolittle@la.gov		
Services commenced by this firm (mm/yy)	09/17	Total consultant contract cost ($1,000's)	$502
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$436

M&M provided all necessary preliminary and final plans for the rehabilitation of the northbound bridge and replacement of the southbound bridge on US 61 over Thompson Creek, between LA 10 and LA 964, near St. Francisville, LA. It was anticipated that traffic would be maintained during the construction of the new southbound bridge with temporary two-way traffic on the rehabilitated northbound bridge. The project also included the design and detailing of adding a helper bent to the northbound bridge. The plans were prepared in accordance with AASHTO LRFD Bridge Design Specifications and the Bridge Design and Evaluation Manual (BDEM), DOTD 2017 Design Guidelines, DOTD 2016 Standard Specifications for Roads and Bridges, DOTD Road Design Manual, and DOTD Hydraulics Manual. QC/QA was provided in accordance with Part 1, Chapter 3 of BDEM. Construction Related Engineering Support was provided and is currently on-going.

M&M developed and delivered the following project documents:

- Final Roadway design & plans
- Final bridge design & plans
- Final temporary detour roadway and bridge plans
- Transportation Management Plan (TMP) Level 2
- Construction Signing Plans
- As Design Rating
- Construction Cost Estimate
- Final Roadway and Bridge Quantities
- Special Provisions
- Design Waivers and Exceptions

PERSONNEL: ***Yu Ouyang, PE, Jared Weisman, PE, Lindsey A. Woolverton, PE, Cullen J. Ledet, PE***

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge, Road	
Project name	**Cline Avenue Bridge**		Firm responsibility (prime or sub?)	Prime	
Project number	N/A	Owner's name	United Bridge Partners		
Project location	East Chicago, IN		Owner's Project Manager	Ken Szeliga	
Owner's address, phone, email	7800 E. Union Ave., Suite 525, CO 80237, (303) 257-4745, kszeliga@unitedbridgepartners.com				
Services commenced by this firm (mm/yy)	04/2020	Total consultant contract cost ($1,000's)		$6,000	
Services completed by this firm (mm/yy)	12/2021	Cost of consultant services provided by this firm ($1,000's)		$6,000	

The Cline Avenue Bridge is a 6,236-foot long precast segmental bridge that spans over several rail lines, Riley Road, and the Indiana Harbor Canal in East Chicago, IN. The new structure consists of 29 cast-in-place concrete columns that support 685 post-tensioned concrete single cell box girders segments which form the bridge's deck. Completion of this project restored entrance into the Northwest Indiana area.

The Bridge was designed by another engineering firm and when the construction of the bridge was approximate 70% complete Modjeski and Masters, Inc. was contacted by United Bridge Partners to perform a fully independent review on the design, review of construction documents, and provide an on-site presence for completion of construction of the 1.2 mile long segmental bridge. The bridge was opened to traffic on December 23, 2021.

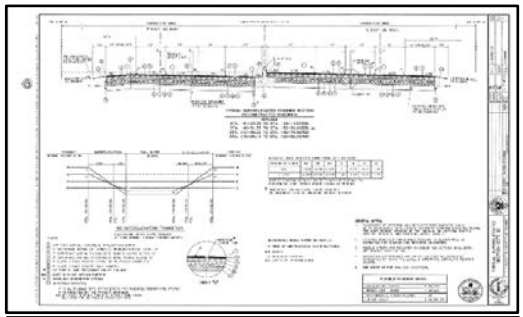
M&M's New Orleans Highway Section developed temporary traffic control plans to improve traffic flow and safety for the initial bridge opening and performed and independent technical review (ITR) of the permanent striping, pavement markings and signage for the bridge and approaches to evaluate conformance with DOT, MUTCD and AASHTO design guidelines and criteria. (total project length = 3 mi.) M&M Prepared roadway striping and signage plan to improve the safety and operational efficiency of the facility. M&M also performed a feasibility study for two (2) proposed new interchanges which included conceptual exit/entrance ramp geometric layouts, roundabouts and structural bridge concepts. Prepared plans for the installation of Supplemental Guide Signs in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).

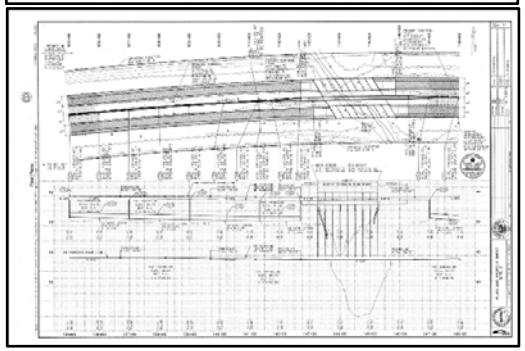
PERSONNEL: ***Ralph J Eppehimer, PE Cullen J. Ledet, PE, Newell H. Schindler, PE, Justin M. Guillot, PE Matthew J. Miller, PE, Michael D. House, PE***

17. Firm Experience:

Firm name	**Modjeski and Masters, Inc.**		Past Performance Evaluation Discipline(s)*		Bridge, Road
Project name	**I-12 Widening**		Firm responsibility (prime or sub?)		Prime
Project number	H.003424.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Livingston Parish, LA		Owner's Project Manager	Kurt Brauner, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802, (225) 379-1933, Kurt.Brauner@la.gov				
Services commenced by this firm (mm/yy)	01/2021	Total consultant contract cost ($1,000's)		$611	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$611	

M&M prepared full sets of roadway and bridge drawings for this major transportation corridor, which consisted of 3 separate sets of construction plans. Project consisted of widening from 2 to 3 lanes. The total project length for the three projects was about 7.4 miles, **with the roadway length of 7.2 miles**. Roadway segments consisted of widening with mill and overlay of existing roadway, along with full-width reconstruction in some areas. The design of the roadway widening involved maintaining the existing grade at some locations, and design of new vertical alignment at other locations. The section of new vertical alignment included superelevation design and accompanying design of median drainage and variable height median barrier. The typical section design included flexible and rigid pavement alternates. Design of erosion repair below the bridges was also included. Project also included the widening of the following 7 bridges:





1. Big Branch Creek – 6 slab spans @ 25 ft = 150 ft.
2. Blood River – 6 slab spans @ 25 ft = 150 ft.
3. Dumplin Creek – 4 slab spans @ 25 ft = 100 ft.
4. Middle Colyell Creek – 8 slab spans @ 25 ft = 200 ft.
5. Hornsby Creek – 5 slab spans @ 25 ft = 125 ft.
6. Colyell Creek – 8 @ slab spans @ 25 ft = 200 ft.
7. Tickfaw River – PCC Spans: 5 @ 60 ft, 1 @ 80 ft, and 3 @ 60 ft = 560 ft.

Roadway Design included development of the following plan sheets:

- Typical Sections
- Summary Tables
- Summary of Drainage Structures
- Plan/Profiles
- Traffic Control Plans
- Minimum Temporary Construction Signing & Sequence of Construction
- Guard Rail Layout Details
- Channel Revetment Details
- Pavement Marking Plans
- Cross Sections (Roadway)
- Cross Sections (Channel Revetment)

PERSONNEL: ***Cullen J. Ledet, PE, Stacey P. Carr, PE, Jason W. Miles, PE, Michael D. House, PE***

17. Firm Experience:

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Category(ies)*	Traffic	
Project name	**I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study**		Firm responsibility (prime or sub?)	sub	
Project number	H.004957.5	Owner's name	DOTD		
Project location	Lacombe, LA		Owner's Project Manager	Joachim C Umeozulu, P.E	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1386, Joachim.Umeozulu@la.gov				
Services commenced by this firm		09/16	Total consultant contract cost ($1,000's)		$1,895
Services completed by this firm		05/17	Cost of consultant services provided by this firm ($1,000's)		$84

As part of the DOTD TIMED program, Vectura prepared a formal traffic study for the new alignment of LA 3241. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. The study included analyses for intersection and corridor improvements such as median openings, spacing of openings, signalized, unsignalized and roundabout intersections.

Task 1 Data Collection

Vectura collected the following traffic data for 10 intersections:

- 7-day (mainlines) and 2-day (side streets) 24-hour tube counts with vehicle classification
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic Signal warrants, radar speed studies and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes

Task 2 Traffic Study

This task included a roundabout study as defined in EDSM VI.1.1.5, VI.1.1.1 and DOTD Traffic Engineering Manual Section 20.2. This task included the following elements:

- Performed Vistro and Sidra analyses for existing conditions
- Performed Vistro and Sidra analyses for Implementation and Design Years.
- Intersection alternatives included restricted median openings, signalized and unsignalized intersections, median U-turns at existing signal locations, restricted crossing U-turn (RCUT) intersections, and roundabouts
- Developed Vissim model of the preferred corridor layout
- Developed Draft Traffic Study Report (3 copies)

Task 3 Safety Analyses

- Developed 3-year crash analyses report as per DOTD standards

PERSONNEL: ***Brin Ferlito, Bridget Robicheaux, and Laurence Lambert (100% performed in Louisiana)***

17. Firm Experience:

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**East Baton Rouge Parish MOVEBR ($912 Million Dollar) Program**		Firm responsibility (prime or sub?)	sub	
Project number	CP No. 19-CS-HC-0001	Owner's name	East Baton Rouge Parish		
Project location	Baton Rouge, LA		Owner's Project Manager	Tom Stephens, PE	
Owner's address, phone, email	1100 Laurel St., Baton Rouge, LA 70802, 225-389-3186 ext. 5634, TStephens@brla.gov				
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost ($1,000's)		unknown	
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm ($1,000's)		$873	

As part of the East Baton Rouge Parish MOVEBR ($912 Million Dollar) Program, Vectura currently provides traffic engineering services for all Capacity Projects. Vectura routinely collaborated with EBR Parish and DOTD Stakeholder such as Section 27, Safety Section, and DOTD District 61. The primary task was to peer review all traffic related deliverables from consultants for 25 capacity projects to date. Submittal review in various stages included but not limited to the following:

Scope

- Purpose and need, contract scopes, manhours and fees

Data Collection

- Raw tube counts, peak period determination, signalized / unsignalized intersection turning movement counts, unmet demand, explanation for any count discrepancies, speed data, peak period observations, geometric field documentation, sight distance, warrants analyses

Design Year Volume Development

- Travel Demand Model data, Growth rate methodologies in accordance with NCHRP 765, design year volume development

Existing and No Build Analyses

- HCS, Synchro, SIDRA, VISSIM, analyses for existing and No Build conditions based on traffic volumes, lane usage, truck percent, required SIDRA roundabout settings, speed, and Traffic Signal Inventory form information
- CATScan, collision diagrams, conflict points, crash analyses report as per DOTD standards
- Defined problems

Tier 1

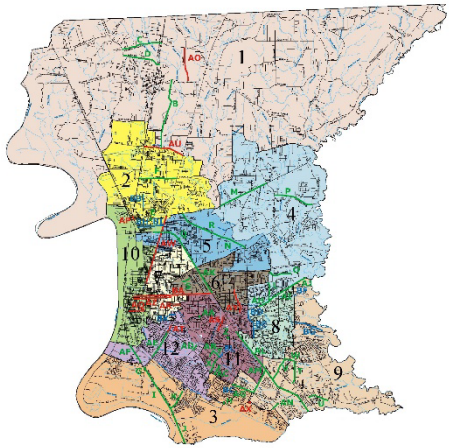
- Preliminary high-level list of alternatives based on defined problems and established comparison criteria.

Build Year Alternative Analyses

- Reviewed traffic volume redistribution, alternative conceptual layouts included access management, restricted median openings, signalized /unsignalized intersections, median U-turns at existing signal locations, RCUT intersections, and roundabouts
- Turn lane calculations, AutoTURN, construction cost estimates

Design

- Confirmed design plans matched recommendations in the Traffic and Design Studies
- Reviewed construction plans including geometric layout, striping, signs, roundabout and traffic signal design
- Plan in Hand, coordinated with EBR TED, DOTD, utilities, consultant team



PERSONNEL: ***Brin Ferlito, Laurence Lambert, Bridget Robicheaux, Reece Rodrigue, and Clara Foshee (100% performed in Louisiana)***

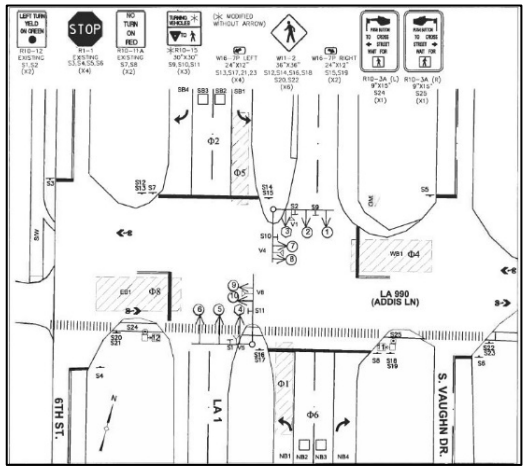
17. Firm Experience:

Firm name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Category(ies)*	Traffic	
Project name	**LA 1 at LA 990 Crosswalk Study and Traffic Signal Design**		Firm responsibility (prime or sub?)	Prime	
Project number	H.011558	Owner's name	West baton Rouge Parish Government		
Project location	Addis, LA		Owner's Project Manager	Kevin Durbin, PE, AICP	
Owner's address, phone, email	800 N. Alexander Avenue Port Allen, LA 70767, 225-336-2434, Kevin.Durbin@wbrcouncil.org				
Services commenced by this firm	11/20	Total consultant contract cost ($1,000's)	$22		
Services completed by this firm	12/21	Cost of consultant services provided by this firm ($1,000's)	$22		

Vectura was hired by West Baton Rouge Parish to perform a Crosswalk Traffic Engineering study and to develop Traffic Signal Design plans for the intersection of LA 1 and LA 990 (Addis Lane) in Addis, LA. The crosswalk was first conceptualized as part of a trail that connects the Mississippi River Trail to points west of LA 1 in the West Baton Rouge Parish Comprehensive Plan (PlanWEST) dated 9/22/11 as well as included in a Stage 0 report titled CMAQ Proposal WBR-2 dated 04/30/14.

A Crosswalk Traffic Engineering Study was performed based on the Traffic Engineering Manual (TEM) Section 3B.2.9, Section 20.2 & EDSM VI.3.1.6 Section 5 and included the following elements:

- Collected 24-hour traffic approach volumes, speed data, crash history and sight distance
- Collected AM and PM peak hour vehicle and pedestrian turning movement counts
- Developed **safety analyses** using 3-year crash data from Crash1 as per DOTD standards
- Performed pedestrian crosswalk warrants as per TEM Section 3B.2.9
- Performed AM and PM Peak **signal timing and progression** for existing conditions
- Performed AM and PM Peak **signal timing and progression** for future conditions



Traffic Signal Construction Plans was performed for LA 1 at LA 990 based on the latest DOTD Traffic Signal Inventory v3.2, DOTD Signal Design Manual, MUTCD & EDSM VI.3.1.6 Section 5. This task included signal timing parameter calculations, signal equipment layout, wiring diagram, DOTD pay items, estimated quantities and construction cost.

Vectura also assisted with the DOTD **Permit** Request for Intersection Control Devices on a State Right of Way

PERSONNEL ***Brin Ferlito, Reece Rodrigue, Laurence Lambert, and Bridget Robicheaux (100% performed in Louisiana)***

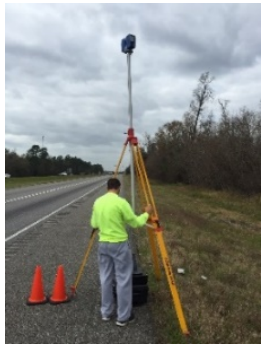
17. **Firm Experience:**

Firm name	**Civil Design & Construction, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**I-10 TX State Line East of Coone Gully**		Firm responsibility (prime or sub?)	Sub	
Project number	H.003184.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	Calcasieu Parish, LA		Owner's Project Manager	Stanley Ard, PLS	
Owner's address, phone, email	1201 Capital Access Rd., Baton Rouge, LA70802/225-379-1232/Stanley.Ard@la.gov				
Services commenced by this firm (mm/yy)	10/15	Total consultant contract cost ($1,000's)	N/A		
Services completed by this firm (mm/yy)	12/18	Cost of consultant services provided by this firm ($1,000's)	$443		

Project Description: This was a 6-lane widening project on I-10 in Calcasieu Parish. The project limits extended from the foot of the Sabine River Bridge (approximately 0.5 miles east of the state line) to a point approximately 2000 feet east of the beginning of the existing 6-lane section (located East of Coone Gully). The survey width of the project was from apparent right of way to apparent right of way and 500 feet past the gore along each of the on and exit ramps.

- In 2018, CD&C was supplemented to extend the original limits of this survey approximately 1500' and to pick up several other areas of additional topographic updates.

CD&C's Role: CD&C performed a complete topographic survey in accordance with the Location and Survey Manual and all current accepted Location and Survey Automation Procedures for this project. A topographic survey was already completed at all bridge sites located within the limits. The survey included all utilities with depths and information, all drainage structures, and all survey DTM and improvement features that fell inside the survey limits. Due to traffic concerns **3D Terrestrial Scanning was utilized for the location of roadways and traditional means and methods were used to complete the topographic survey on this project.** The final submittal of the survey was a combination of the supplied data from LADOTD for the bridges with the current survey that was completed for this project.



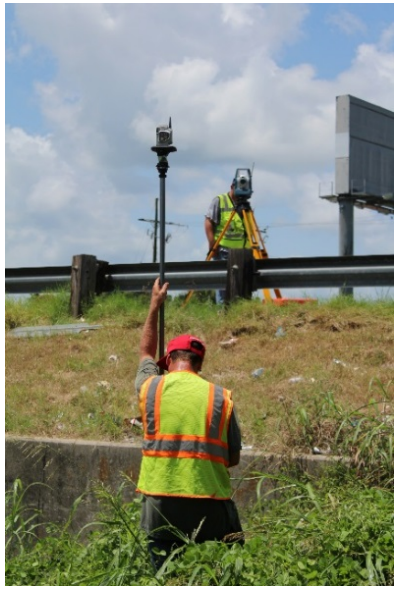
PERSONNEL: *Karla E. Weston, P.E.; Ralph Burgess, PLS, Chris Ballard, Phil Dupree, Jacob Stoehr, Trent Norris, John Ewing, Scott Benton*

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	Louisiana Department of Transportation and Development		
Project location	West and East Baton Rouge, LA		Owner's Project Manager	Nicholas Olivier	
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802; (225) 379-1232, Brian.Kendrick@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)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$296	

Project Description: This project 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 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. **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.**



PERSONNEL: *Karla E. Weston, P.E.; Ralph Burgess, PLS, Christopher Ballard, PLS; Phil Dupree, Party Chief; Jacob Stoehr, Trent Norris, John Ewing*

17. **Firm Experience:**

Firm name	**Civil Design & Construction, Inc.**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**Verot School Road**		Firm responsibility (prime or sub?)	Sub	
Project number	H.011235	Owner's name	LADOTD		
Project location	Lafayette, LA		Owner's Project Manager	Thomas Gattle (Huval & Assoc.	
Owner's address, phone, email	922 W. Point Des Mouton Rd., Lafayette, LA 70507/337-234-3798/tgattle@huvalassoc.com				
Services commenced by this firm (mm/yy)	08/16	Total consultant contract cost ($1,000's)		N/A	
Services completed by this firm (mm/yy)	01/18	Cost of consultant services provided by this firm ($1,000's)		$435	

Project Description: This project is located in Lafayette Parish between Lafayette Regional Airport and Broussard, LA. The project is for the proposed widening of US 90/I-49 South and realignment of Verot School Road. A topographic survey was performed along the entire proposed route as well as an existing drainage map.

CD&C's Role: CD&C performed a complete topographic survey of the project site by using **3D Terrestrial Scanning in conjunction with traditional means to complete the survey. Control was set for the scanning throughout the project limits.** Coordination with Cardno, Inc. (Team member) was necessary for the location of all utilities in the project area. CD&C also coordinated with all the property owners for access to the properties and also meet with safety advisors for the industrial business that were impacted. The survey included coordination with the ongoing I-49 Connector project and merging of that survey to the CD&C survey in order to make a complete project for the area**. CD&C also researched and compiled an existing right of way linework for the prime consultant to use for exhibits for the project and is tasked to complete Final ROW Maps**. In order to complete the survey CD&C also had to coordinate with BNSF railroad for access to BNSF's rail.

Members Involved: *Karla Weston, PE; Ralph Burgess, PLS; Christopher Ballard, PLS; Trent Norris; Phil Dupree; Jacob Stoehr; Jason Stoehr; Alex Wells*

18. Approach and Methodology:

COMPANY PROFILE

Modjeski and Masters, Inc. (M&M) has been performing engineering design services for LADOTD for over 60 years which has included bridge and roadway improvement projects, along with roadway lighting.

Even before the beginning of the Federal Interstate Highway System, M&M had established itself as an expert in the planning and design of major expressways and interchanges. M&M continues to be an invaluable partner to transportation agencies trying to keep pace with growing demands. We offer a full array of comprehensive highway, bridge and interchange/intersection design services. And we provide solutions that not only meet today's needs, but also accommodate future requirements as well.

M&M's personnel have extensive knowledge of current LADOTD, the American Association of State Highway & Transportation Officials (AASHTO's) policies and design procedures. The M&M staff is also extremely knowledgeable of the requirements of the Federal Highway Administration's (FHWA's) Manual on Uniform Traffic Control Devices (MUTCD). M&M's key personnel designated for this project have performed hydrologic and hydraulic analysis and design in accordance with LADOTD's Hydraulics Manual on a multitude of roadway improvement projects and are also extremely knowledgeable of LADOTD's roundabout policies and guidelines along with the NCHRP Report 672 – "Roundabouts: An Informational Guide" Second Edition.

One of the premier examples of M&M's Louisiana roadway design experience is demonstrated by the Huey P. Long Bridge Widening project which included a significant amount of roadway design services, including interchange design. The roadway design services M&M performed are outlined in the first project sheet in Section 17 of this 24-102.

PROJECT UNDERSTANDING

Since this is an IDIQ contract, we understand that project scopes could vary significantly between Task Orders and will primarily focus on improving the safety of roadway facilities for all users.

Roadway classifications could consist of both rural and urban and include freeways, interstates, arterials, collectors and local roads.

We also understand that services may include but are not limited to the following:

- Topographic Surveys
- Traffic Control Design, Traffic Signal Analysis and Design
- Preliminary and Final Roadway Design, Plan Development and Cost Estimates
- Hydraulic Analysis and Design
- Road Design Services During the Environmental Process
- Special Provision Write-ups
- Transportation Management Plans (TMPs)
- Quality Plan Reviews
- Construction Support

M&M will evaluate each project to incorporate LADOTD's Complete Streets Policy to provide safe facilities for all users, including pedestrian and bicycles, where determined to be feasible and warranted. Context sensitive solutions will be considered and implemented throughout the design process.

PROJECT APPROACH

M&M has assembled a highly qualified team for this Roadway Design Safety IDIQ Contract. As indicated in the Organizational Chart in Section 14 along with the resumes in Section 16, M&M's Team has a highly experience staff with extensive LADOTD experience in performing all required services required for any roadway design safety Task Order. M&M's Team proposed for this project easily fulfill the five (5) Minimum Personnel Requirements. Joining the M&M Team for this project are the highly respected DBE Firms of Vectura Consulting Services, LLC (Vectura) and Civil Design and Construction, Inc. (CD&C). CD&C will be responsible for acquiring any required topographic survey as determined by the design team. CD&C will also provide SUE services if required. Vectura will be responsible for performing all Traffic Engineering Services which may include Traffic Control Design, Traffic Safety Analysis and TMPs in accordance with EDSM No. VI.1.1.8. All of Vectura's designated PTOEs for this contract have completed LADOTD's Traffic Engineering Process and Report Training Requirements (TEPR).

Newell Schindler will serve as M&M's Project Manager (PM). Newell has over 41 years of experience in the management and design of infrastructure projects, 13 years of experience in the Road Design Section of LADOTD, and 28 years of experience as a Consulting Engineer which has included Project Management and design of a multitude of transportation improvement projects. He has extensive knowledge of current LADOTD and the American Association of State Highway & Transportation Officials' (AASHTO) policies and design procedures. In addition, Mr. Schindler supervised the design of a multitude of road and bridge improvement projects, including complex urban interstate, urban arterial, rural arterial, and minor bridge replacement projects. Projects included coordination with Traffic Engineers and the evaluation of traffic analyses to develop capacity and safety roadway improvements, including intersections and interchanges. He has completed the following relevant workshops/training:

- FHWA-NHI-142005 NEPA and the Transportation Decision Making Process
- ATSSA Traffic Control Technician/Supervisor
- Designing Streets for Pedestrian & Bicycle Safety
- LADOTD Highway Safety Manual Workshop
- LADOTD Traffic Engineering Analysis Process & Report (TEPR) Modules 1, 2 & 3
- Roundabout Design Workshop (Level 1)

Task Order Initiation

Upon notification from LADOTD, M&Ms PM will develop a detailed Scope of Services based on communications with LADOTD's Project Manager. Subsequently, M&M will develop a proposed man-hour estimate along with a proposed schedule, after receipt of approval of the Scope of Services from LADOTD,

Preliminary Plan Development

All roadway engineering design services performed by the M&M Team will adhere to the requirements of the most recent editions of LADOTD's Roadway Design Procedure and Details Manual, LADOTD's Minimum Design Guidelines, LADOTD's Engineering Directives and Standards Manual (EDSMs), AASHTO's Policy on Geometric Design of Highways and Streets, AASHTO's Roadside Design Guide, AASHTO's Guide for the Planning, Design and Operation of Pedestrian Facilities, AASHTO's Guide for the Development of Bicycle Facilities and FHWA's MUTCD.

Plan preparation will conform to LADOTD's drafting and software standards. Bentley Inroads and MicroStation software will be used for roadway design. ProjectWise will be used as the document management software for plan development to ensure integration with LADOTD and foster collaboration between different disciplines.

M&M will perform drainage design in accordance with the requirements of LADOTD's Hydraulics Manual. LADOTD's HydroWIN software will be utilized for all Hydrologic & Hydraulic (H&H) calculations, which includes the following if required:

- HYDR1110 Normal Water Surface Profile
- HYDR1121 Culvert Analysis Program
- HYDR1130 Peak Runoff Program
- HYDR1140 Open channel Design Program
- HYDR6000 Inlet Spacing and Selection Program
- HYDR6020 Storm Sewer Design Program

Quality Assurance/Quality Control (QA/QC)

We will provide our QA/QC to LADOTD's PM within 10 business days of award notification. M&M's QA/QC plans relate 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. Checklists and forms will be developed to monitor special needs of LADOTD and/or a specific engineering activity. QC/QA reviews will be performed prior to the submittal of all milestone deliverables. All deliverables will conform to the requirements of Figure 1-02 (Stage 3 Plan Review Distribution) of LADOTD's Roadway Design Procedure and Details Manual.

Kick-off Meeting

After Task Order execution and receipt of Notice-to-Proceed (NTP) M&M will immediately begin preparing for and scheduling the project Kick-off Meeting in coordination with LADOTD's PM. Members of M&M's Team will participate in this meeting, along with LADOTD's relevant Headquarters and District personnel. M&M shall prepare the meeting agenda and topics of discussion which will include project scope and understanding, proposed schedule, design criteria, communication protocol, pre-design report, existing available project information. M&M will provide meeting minutes to all meeting attendees.

Topographic Survey

M&M's DBE subconsultant, CD&C, will be responsible for obtaining any required topographic surveys. CD&C will ensure that the topographic survey shall adhere to all modern survey theory, practice, and procedures, and follow the latest version of the LADOTD Location and Survey Manual including typical surveying methods as applied by LADOTD. This includes all accepted horizontal and vertical control standards as stated in the manual. The LADOTD feature table code list and symbols shall be utilized and met with those included in the latest edition of the survey feature code guidebook produced by the LADOTD Location and Survey Section and Automation. 3D Terrestrial Scanning may be utilized in conjunction with traditional means and methods to capture topography as applicable for each site and will adhere to all LADOTD Standards as related to Terrestrial and Mobile Scanning. All deliverables will adhere to the Electronic standard as set forth by LADOTD.

Initial Site Visits, Data Collection

M&M understands the importance of visiting all project sites to get a better understanding of project site conditions. Upon receipt of a Task Order NTP M&M will schedule and perform initial site visits. At this time M&M will begin collecting and reviewing all available project data. This includes completed and on-going studies and improvement projects within the projects vicinity which may have an impact on the proposed safety improvement project.

Traffic Control Design, Traffic Signal Analysis and Design

Any required traffic analysis and/or design shall be performed by M&M's DBE sub-consultant, Vectura. Vectura specializes in Traffic Engineering and their highly experience staff of six (6) PTOEs have extensive experience in performing traffic engineering services for LADOTD. All required traffic engineering services shall be performed in accordance with LADOTD's Sign Manual, Pavement Marking Manual, Traffic Signal Manual, Traffic Engineering Process and Report, and Traffic Engineering Manual. Vectura shall also be responsible for all required TMPs. Vectura's staff are knowledgeable of all stages of TMPs that nay be required (Levels 2, 3 and 4).

Preliminary Plans Deliverables

Preliminary plans shall consist of 30%, 60%, 95% and 100% deliverables with a Plan-in-hand (PIH) meeting to be held after the 95% submittal. M&M's deliverables will address all previous comments received from LADOTD and include a spreadsheet documenting how each comment was addressed. All of M&M's plans will adhere to LADOTD's electronic deliverable standards, including using CADConform for drafting efficiency and standards compliance as well as ProjectWise for collaboration and submittal delivery.

30% Preliminary Plans

The 30% deliverable shall consist of the Title Sheet, Typical Section Sheets and Plan/Profile Sheets with existing Topo.

60% Preliminary Plans

The 60% deliverable will include updated Title Sheet, Typical Section Sheets, Plan/Profile Sheets, along with Drainage Plan/Profile (if required), Existing & Design Drainage Maps, Geometric Details and Cross Sections. The Preliminary Hydraulic Report will also be delivered at this time.

95% Preliminary Plans and PIH

The 95% deliverable will include updated sheets included in the previous submittal and will also include Suggested Sequence of Construction, Temporary Erosion Control, Summary of Estimated Quantities and a Construction Cost Estimate.

100% Preliminary Plans

The 100% deliverable will address all PIH comments and include any proposed Design Waiver/ Exception requests.

Environmental Support

The M&M Team will perform road design services to support the Environmental Process as required. M&M will prepare drawings and details which illustrate the proposed work to obtain required permits. M&M will attend and prepare exhibits and technical presentation for all public meetings and hearings necessary to obtain the environmental clearance. As an example of M&M's rendering capabilities, shown below are a couple of renderings M&M developed for proposed roadway improvement projects in St. Tammany Parish, LA.

Final Plan Development

Once Environmental Clearance is received and LADOTD issues a NTP, M&M's Team will proceed with Final Plan Development. Final Plans will consist of 60%, 95%, 98% and 100% deliverables. M&M's deliverables will address all previous comments received from LADOTD and include a spreadsheet documenting how each comment was addressed.

60% Final Plans

The 60% deliverable will consist of a full-set of plan sheets, including Summary Tables, Signing & Striping Sheets, and Signalization plan sheets (if Required), along with the Final Hydraulic Report. The M&M Team will participate in a joint plan review meeting if required.

95% Final Plans

The 95% deliverable will consist of a full-set of plan sheets, along with the Final Design Report, Constructability Forms and QA/QC Documentation.

98% & 100% Final Plans

The 98% deliverable will consist of a full-set of plan sheets along with any required special provisions. Plans will be reviewed by LADOTD's Plan Quality unit and Contracts and Specifications Section. Upon receipt of approval from LADOTD' PM, M&M shall submit Final Plans signed and sealed by the Engineers of Record.

Special Provisions Write-ups

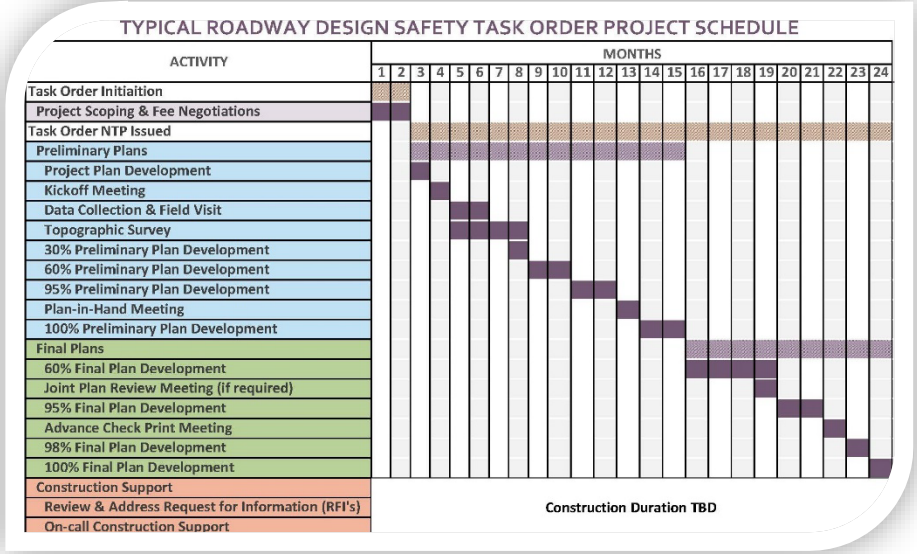
M&M is aware that projects may requires special provisions for items which are not included in LADOTD's standard list of pay Items. Our experienced staff will compose the specifications and special provisions for ant required special items.

Construction Support

M&M will provide construction support as required which shall include reviewing and responding to all RFI's within 48 hours and aid with informational meetings between LADOTD & the contractor within 24 hr. notice.

Proposed Project Schedule

M&M's Proposed Project Schedule for a typical project is provided below. Actual project durations will vary depending on the magnitude and complexity of each individual Task Order.



19. Workload:

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

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

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

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
		S.P. 700-66-0486 / 440000668	**Engineering Services for Bridge Preservation Retainer Statewide**	
M&M	Bridge	H.009479	West Larose Vertical Lift Bridge Rehabilitation - Supplement No. 2	$0
M&M	Bridge	JN 3144	Expert witness services in bridge design, construction, repair and forensic analysis	$274,383
		Retainer Contract 4400002538	**Engineering Services for Bridge Preservation Retainer Statewide**	
M&M	Bridge	H.010882.5	LA 18: 4th Street Bridge Rehabilitation (Supplement No. 2) Construction Services Jefferson Parish	$0
M&M	Bridge	H.010882.6	4th Street Bridge Rehabilitation Paint (Supplement No. 3) Route LA 18	$3,132
		Retainer Contract 4400005395	**Construction Engineering and Inspection with Painting Statewide**	
M&M	CE&I/OV	H.011705.6	US 11 Lake Pontchartrain Bridge Rehabilitation - Ph2, Sup1	$131,745
M&M	CE&I/OV	H.011494.6	US 90 Atchafalaya River Bridge Rehabilitation	$0
M&M		**Retainer Contract 4400004921**	**Complex Bridge Rating (on-system trusses and other complex bridges) Statewide**	
M&M	Bridge	H.009859.5	Sunshine Bridge Load Rating after Collision Repair - Task Order 4	$13,605
M&M	Bridge	H.009859.5	Load Rating of 14 Complex Bridges	$257,576
		Retainer Contract 4400005774	**Retainer Contract for Bridge Preservation Statewide**	

M&M	Bridge	H.001234.5	Port Allen Canal Bridge	$64,231
M&M	Other (Roadway Lighting)	H.010601.6	I-10: LA 328 to LA 347 - CRES	$44,879
M&M	Other (Roadway Lighting)	H.011137.5	I-12: LA 1077 to US 10 Roadway and Navigation Lighting	$35,452
		IDIQ Contract 4400012382	**ID/IQ for Bridge Preservation Statewide**	
M&M	Bridge	H.011705.6	US 11: Lake Pontchartrain Bridge Rehab Phase 2 (HBI) Sup1	$0
M&M	Bridge	H.013193.6	US 61: Thompson Creek Bridge - Construction Svcs. Rehabilitation and Replacement	$804
M&M	Bridge	H.003144.6-2	Luling Bridge Cable Stay Replacement Project	$391,046
M&M	Other (Roadway Lighting)	H.011235	Subconsultant: I-49 South at Verot School Road - Lighting	$32,989
M&M	Other (Roadway Lighting)	H.004791	Subconsultant: Belle Chasse B7T Replacement P3 - Electrical and Structural	$25,614
		IDIQ Contract 4400017263	**ID/IQ for Bridge Preservation Statewide**	
M&M	Bridge	H.010603.6	I-20 Mississippi River Bridge at Vicksburg - Monitoring	$0
M&M	Other (Roadway Lighting)	H.013866.6	I-12: LA 21 to US 190 Navigation Lighting & Roadway Lighting	$67,664
M&M	Other (Roadway Lighting)	H.003184.6	I-10: Texas State Line - E. of Coone Gully - CRES	$54,351
M&M	Bridge	H.011485.6	LA336-1: Bayou Teche Bridge Rehabilitation	$78,357
M&M	Other (Roadway Lighting)	H.012889.5	I-20 Rehabilitation - Roadway Lighting (Pines Road to I-220)	$103,858
M&M	Bridge	H.000263.5	Chef Menteur Pass Bridge & Approach	$27,466
M&M	Bridge	H.009859.5	Prien Lake Bridge Structural Rating	$18,259
M&M	Bridge	H.004420.5	Barataria Preliminary Fender Design	$2,120
M&M	Bridge	H.014280.5	Bayou Ramos Bridge Girder Study	$40,207
M&M	Bridge	H.014673.5	I-49 US 165 Debonded PPC Girder Rehab	$0
M&M	Bridge	H.014587	LA 302: Kerner Ferry Bridge Repairs PH 2 - Constr Support	$68,809
M&M	Bridge	H.013946.6	Sunshine Bridge Fender Construction - 2021	$32,957
M&M	Bridge	H.009859.5-2	Load Rating of two existing bridges	$152,416
M&M	Bridge	H.004420.5	Bayou Barataria Bridge at Jean Lafitte - Supp 1 and 2	$0
M&M	Bridge	H.014406.6	Houma Navigation Canal Swing Bridge - Electrical Repair CRED	$24,606
M&M	Bridge	H.014673.5-2	NSFRP Specification Review	$1,336
M&M	Bridge	H.014465.5	Perry Bridge Rehabilitation - Final Design	$479,500
M&M	Bridge	H.004647.6 (T.O. 1)	I-20 MS River Bridge at Vicksburg, - Monitoring	$129,102

M&M	Bridge	H.015028.6	Bayou Barataria Bridge MB Replacement - Phase I	$156,916
M&M	Bridge	H.010882.6	LA18: 4th Street Bridge Rehabilitation Construction Support	$69,713
M&M	Bridge	H.009479.6	West Larose Lift Bridge Rehabilitation - Const Support	$58,552
M&M	Bridge	H.015217.5	I-10 Atchafalaya Basin Speed Enforcement PH2	$43,250
M&M	Bridge	H.004100	Subconsultant: LA 415 to Essen Lane on I-10 and I-12 CMAR RCP Plans	$708,894
M&M	Bridge	H.001234.6	LA 1: Port Allen Canal Bridge Replacement - Phase 1 CRES	$44,906
		IDIQ Contract 4400020063	**ID/IQ for Electrical Services Statewide**	
M&M	Bridge	H.014212.6	I-10 Atchafalaya Bridge Navigational Lights Repl	$53,247
M&M	Other (Roadway Lighting)	H.014646	I-20: US 165 to Garrett Road Lighting	$235,102
M&M	Other (Roadway Lighting)	H.014555.5	I-10 at LA109 Interchange Lighting (Toomey)	$157,679
M&M	Other (Roadway Lighting)	H3015019.5	I-10 at LA3063 Interchange Lighting (Vinton)	$159,747
		IDIQ Contract 4400014317	**ID/IQ for Painting Inspection and Environmental Monitoring with Consturction Engineering and Inspection - Statewide**	
M&M	CEI/OV	H.011487.6	LA 182: Berwick Bay Bridge Rehabilitation	$2,789,475
Vectura	Traffic	H.010616	I-20: LA 544 Overpass Replacement	120,664
Vectura	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	51,079
Vectura	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	144,494
Vectura	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	49,600
Vectura	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	14,740
Vectura	Traffic	H.012030.5	KCS RR Overpasses HBI	28,026
Vectura	ITS	H.011504.5	Alexandria ITS Phase 2	54,179
CD&C	Surveying	4400017091/ TO-3	LWI Statewide Modeling R5 – Task Order #3	$49,852
CD&C	Surveying	H.011833.5	St. Mary Street Sidewalks	$3,236
CD&C	Surveying	H.011235.5	I-49 South @ Verot School Rd	$370,120

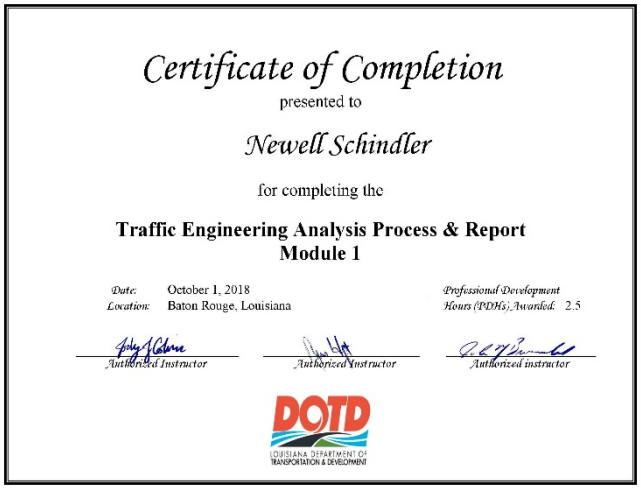
(Add rows as needed) DO NOT SUM

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

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, 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.

Certifications/Licenses:

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



Certificate of Completion

presented to

Newell Schindler

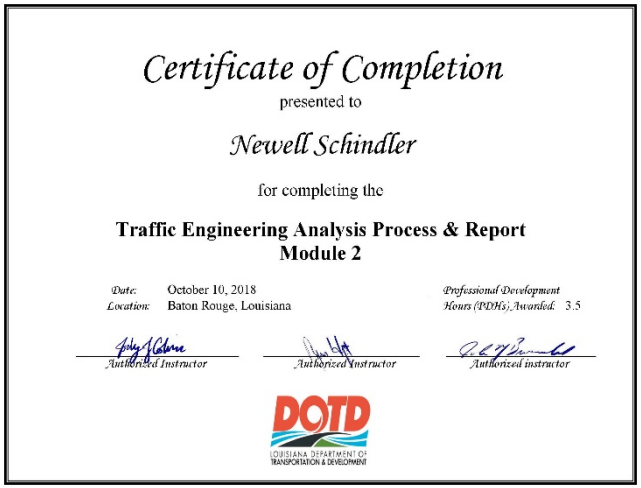
for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Newell Schindler

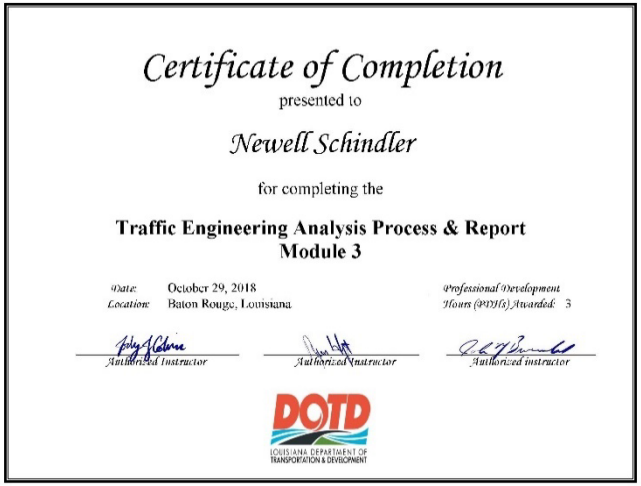
for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Newell Schindler

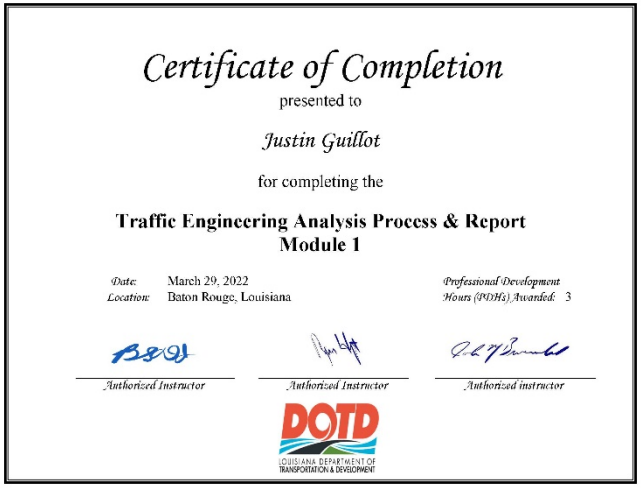
for completing the

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



Certificate of Completion

presented to

Justin Guillot

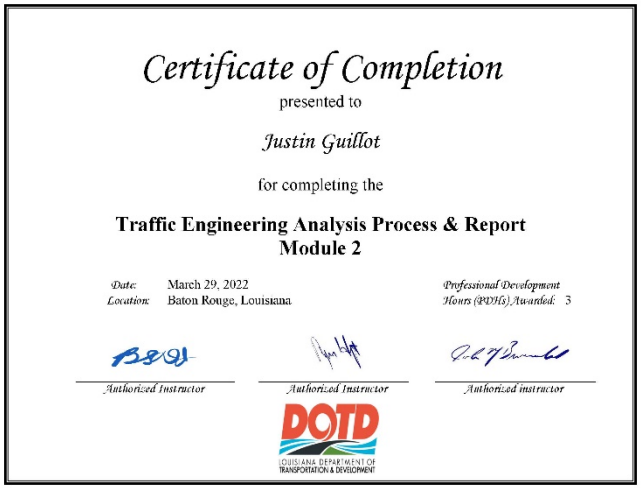
for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Authorized Instructor | Authorized Instructor | Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Justin Guillot

for completing the

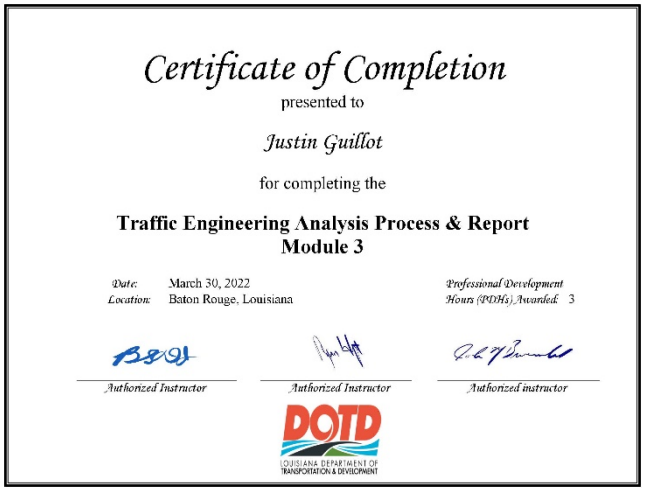
Traffic Engineering Analysis Process & Report
Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Justin Guillot

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

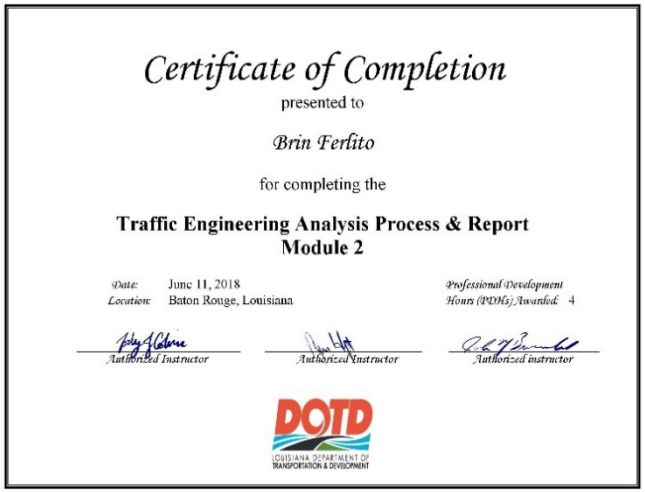
Traffic Engineering Analysis Process & Report
Module 1

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

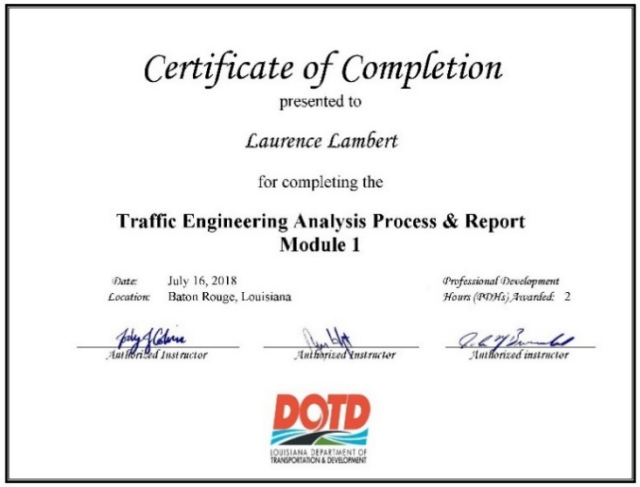
Traffic Engineering Analysis Process & Report
Module 3

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

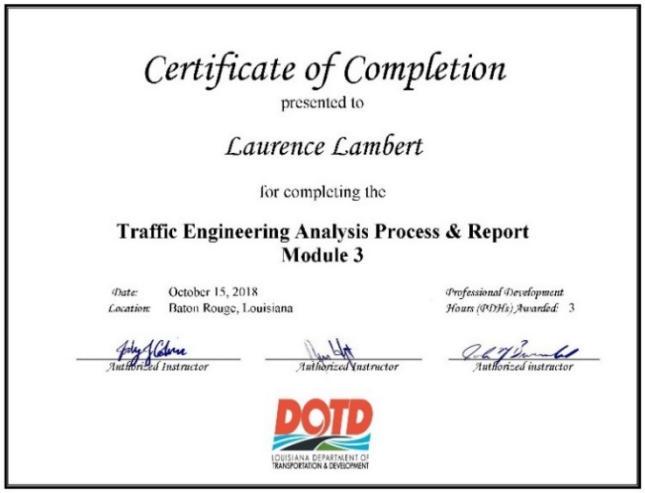
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



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

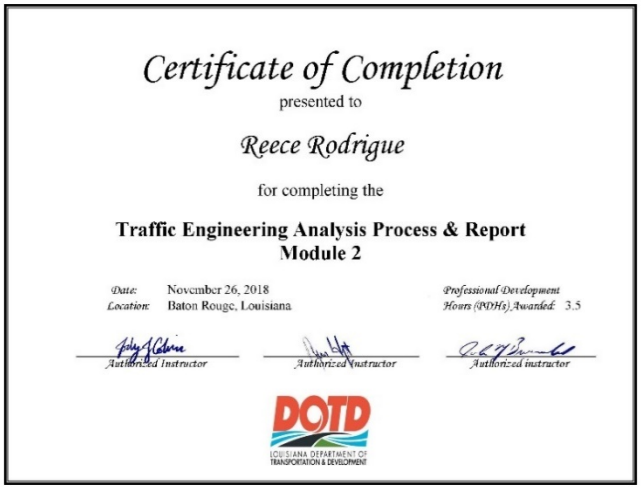
Traffic Engineering Analysis Process & Report
Module 1

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

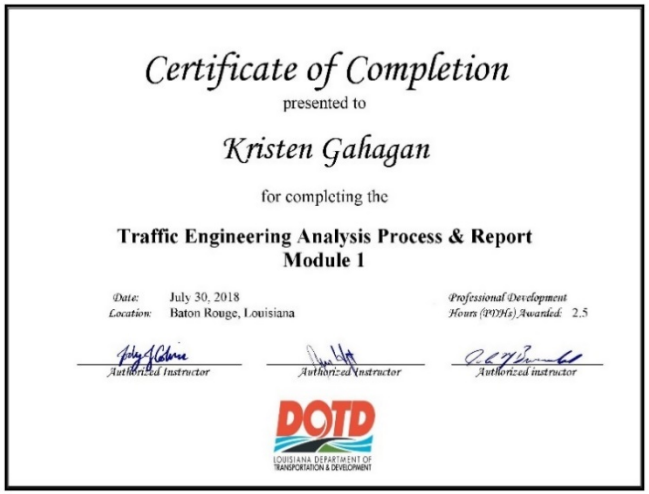
Traffic Engineering Analysis Process & Report
Module 3

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

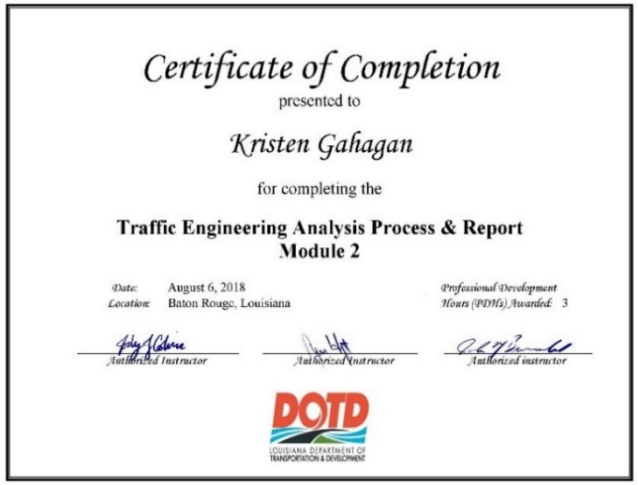
Traffic Engineering Analysis Process & Report
Module 1

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

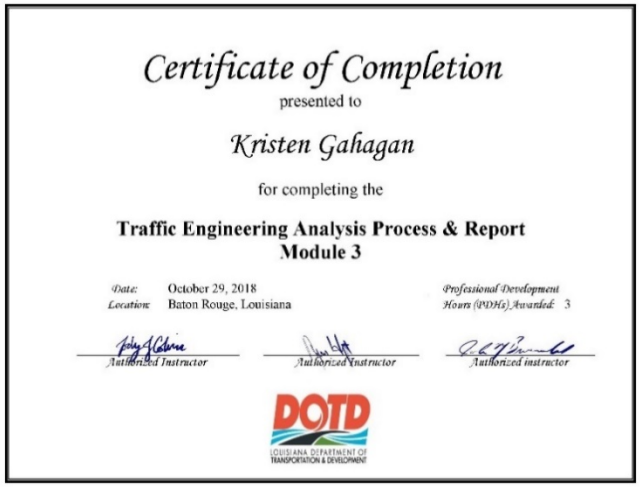
Traffic Engineering Analysis Process & Report
Module 2

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

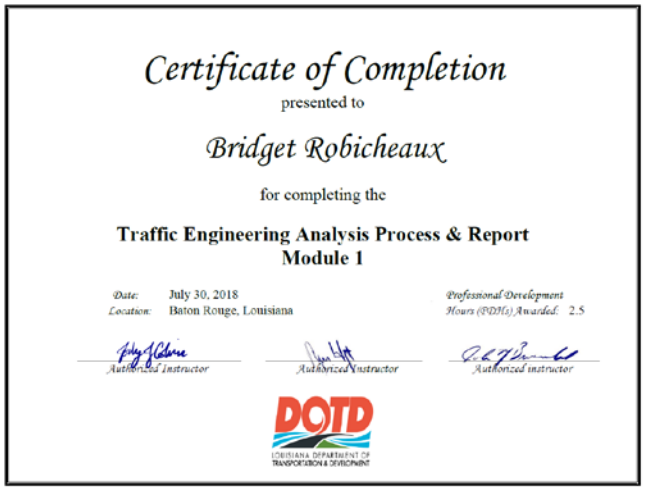
Traffic Engineering Analysis Process & Report
Module 3

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



Certificate of Completion

presented to

Bridget Robicheaux

for completing the

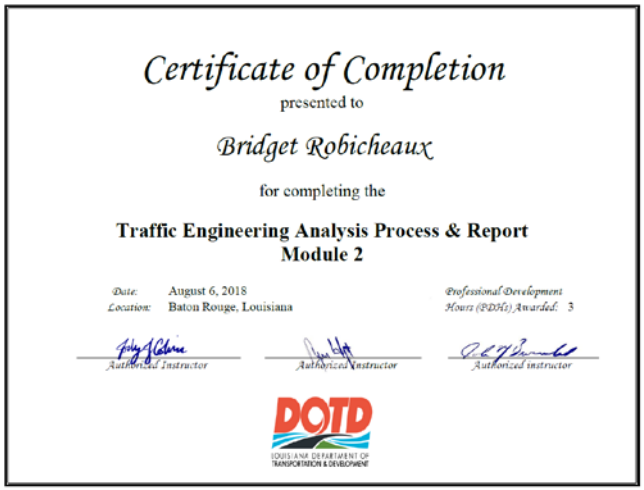
Traffic Engineering Analysis Process & Report
Module 1

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

Bridget Robicheaux

for completing the

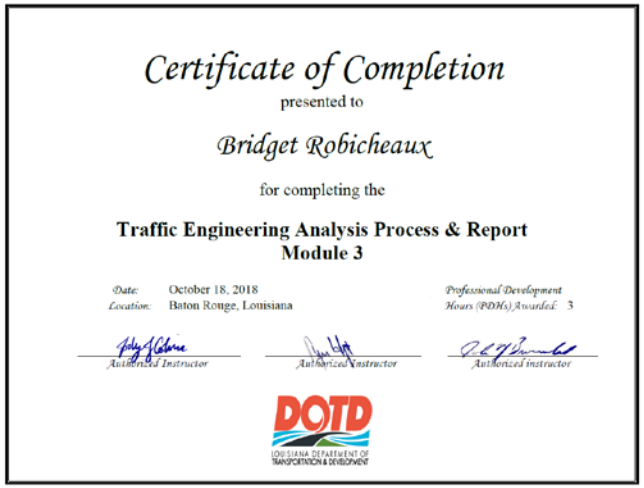
Traffic Engineering Analysis Process & Report
Module 2

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

Bridget Robicheaux

for completing the

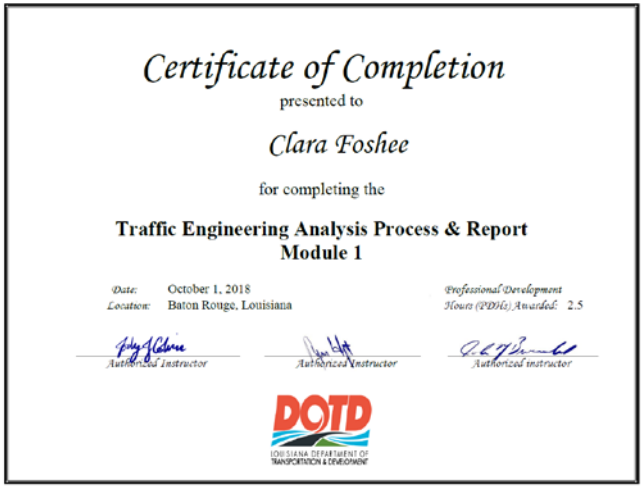
Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Clara Foshee

for completing the

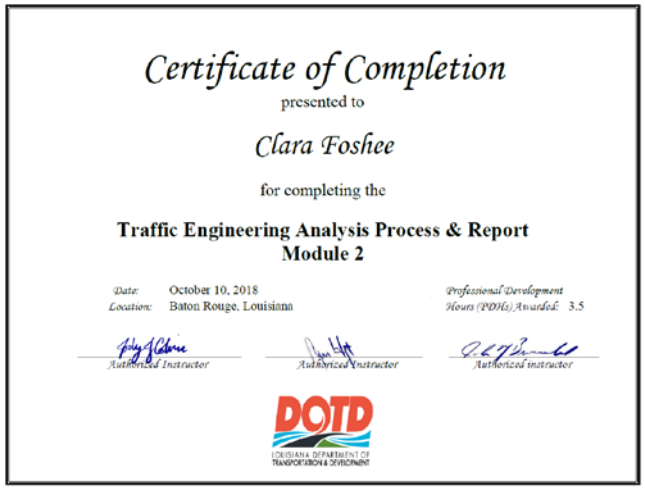
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Clara Foshee

for completing the

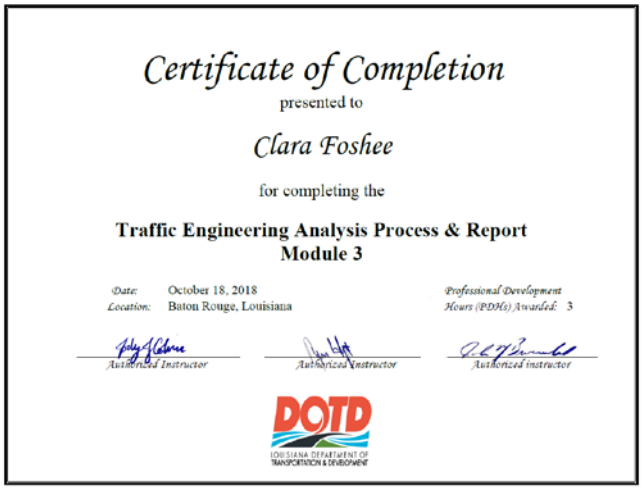
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Clara Foshee

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. <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**.

21. 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**
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A Baton Rouge, LA 70809-9639	Brin Ferlito, PE, PTOE bferlito@vecturacs.com	(225) 223-6685
Civil Design & Construction, Inc.	PO Box 857 3251 Southern Pacific Railroad Port Allen, LA 70767	Karla E. Weston, PE kweston@cdcbr.com	(225) 765-1802

(Add rows as needed)

22. <u>Location:</u>

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**.