(Revised March 1, 2022)

# **DOTD FORM: 24-102**

### PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number. ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE. Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

| 1. | Contract title as shown in the advertisement  | IDIQ CONTRACT FOR ROADWAY DESIGN SERVICES<br>DISTRICT 03                      |  |  |
|----|---|---|--|--|
| 2. | Contract number(s) as shown in the advertisement  | 4400024832  |  |  |
| 3. | State Project Number(s), if shown in the advertisement  |   |  |  |
| 4. | Prime consultant name (as registered with the Louisiana<br>Secretary of State where such registration is required by law)   | SIGMA CONSULTING GROUP, INC.  |  |  |
| 5. | Prime consultant license number (as registered with the<br>Louisiana Professional Engineering and Land Surveying<br>Board (LAPELS) if registration is required under Louisiana law) | EF.0001410<br>VF.0000302  |  |  |
| 6. | Prime consultant mailing address  | 10305 Airline Highway, Baton Rouge, LA 70816                                  |  |  |
| 7. | Prime consultant physical address (existing or to be<br>established, if location is used as an evaluation criteria)   | 10305 Airline Highway, Baton Rouge, LA 70816                                  |  |  |
| 8. | Name, title, phone number, and email address of prime consultant's contract point of contact  | Robert Lear, Jr., PE, LSI – Vice-President<br>225-298-0800, rlear@sigmacg.com |  |  |
| 9. | Name, title, phone number, and email address of the official with signing authority for this proposal   | Miles B. Williams, PE – President<br>225-298-0800, mwilliams@sigmacg.com      |  |  |

| 10. This is to certify that all information co<br>and true, and that the team presently has<br>perform these services within the desig<br>submitting this proposal, proposer cert<br>in a boycott of Israel and it will, for the<br>obligations, refrain from a boycott of I<br>certifies and agrees that the following<br>preparing its response, the proposer has<br>submitted from qualified, potential sub<br>and has not, in the solicitation, selection<br>of any subcontractor or supplier, refuse<br>terminated business activities, or taken<br>limit commercial relations, with a perse<br>engaging in commercial transactions in<br>controlled territories, with the specific<br>boycott or divestment of Israel. The pr<br>retaliated against any person or other er<br>efusal, termination, or commercially I<br>reserves the right to reject the response<br>if this certification is subsequently deta<br>terminate any contract awarded based | ontained herein is accurate<br>as sufficient staff to<br>gnated time frame. By<br>ifies that it is not engaged<br>e duration of its contract<br>srael. Proposer also<br>information is correct: In<br>s considered all proposals<br>contractors and suppliers,<br>on or commercial treatment<br>ed to transact or<br>other actions intended to<br>on or entity that is<br>a Israel or Israeli-<br>intent to accomplish a<br>roposer also has not<br>ntity for reporting such<br>imiting actions. DOTD<br>of the bidder or proposer<br>ermined to be false, and to<br>on such a false response. | Signature (shall be the same person as #9):<br>Magnetic definition of the same person as #9):<br>Date: September 29, 2022 |                                 |
|---|--|---|---------------------------------|
| 11. If a Disadvantaged Business Enterprise<br>for this advertisement, indicate which is<br>meet the DBE goal and each firm(s)' p  | e (DBE) goal has been set<br>firm(s) will be used to<br>ercentage.   | <u>Firm(s):</u><br>Civil Design & Construction, Inc.  | <u>Firm(s)' %:</u><br><b>4%</b> |

| 12. Past Performance Evaluation Discipline Table | 12. | <b>Past Performance</b> | Evaluation | Discipline | Table: |
|--|-----|-------------------------|------------|------------|--------|
|--|-----|-------------------------|------------|------------|--------|

| Evaluation<br>Disciplines  | % of<br>Overall<br>Contract | Sigma<br>Consulting<br>Group, Inc. | Arcadis | CDC<br>(DBE) |    |    | Each<br>Discipline<br>must total to<br>100% |  |
|--|-----------------------------|------------------------------------|---------|--------------|----|----|---|--|
| Road   | 86%                         | 90%                                | 10%     |              |    |    | 100%  |  |
| Bridge   | 5%                          | 100%                               |         |              |    |    | 100%  |  |
| Traffic  | 5%                          |                                    | 100%    |              |    |    | 100%  |  |
| Survey   | 4%                          |                                    |         | 100%         |    |    | 100%  |  |
|  |                             |                                    |         |              |    |    |   |  |
| Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each sub-consultant. |                             |                                    |         |              |    |    |   |  |
| Percent of Contract  | 100%                        | 82%                                | 14%     | 4%           | 0% | 0% | 100%  |  |

## 13. Firm Size

| Firm Name                    | DOTD Job Classification | Number of<br>Personnel<br>Committed to this<br>Contract | Total Number of<br>Personnel Available<br>in this DOTD Job<br>Classification<br>(if needed) |
|------------------------------|-------------------------|---|---|
|                              | Principal               | 1   | 1   |
| Sigma Consulting Group, Inc. | Supervisor - Eng.       | 2   | 4   |
|                              | Engineer                | 2   | 5   |
| SIGNA                        | Engineer Intern         | 3   | 4   |
| CONSULTING<br>CROUP INC      | CADD Operator           | 1   | 2   |
| ENGINEERING & SURVEYING      | CADD Technician         | 2   | 3   |
|                              | Surveyor                | 0   | 1   |
|                              | Instrument Man          | 0   | 1   |
|                              | Rodman                  | 0   | 2   |
|                              | Sr. Technician          | 0   | 2   |
|                              | Clerical                | 1   | 4   |

#### 13. Firm Size (cont.)

| Firm Name    | DOTD Job Classification | Number of<br>Personnel<br>Committed to this<br>Contract | Total Number of<br>Personnel Available<br>in this DOTD Job<br>Classification<br>(if needed) |
|--------------|-------------------------|---|---|
|              | Supervisor Engineer     | 1   | 1   |
|              | Engineer Intern         | 1   | 1   |
|              | Surveyor                | 2   | 2   |
|              | Party Chief             | 3   | 5   |
|              | Instrument Man          | 2   | 3   |
| INCORPORATED | Rodman                  | 2   | 2   |
|              | CADD Operator           | 1   | 1   |
|              | Senior Technician       | 3   | 5   |
|              | Supervisor - Other      | 1   | 1   |
|              | Supervisor Engineer     | 2   | 4   |
|              | Engineer                | 3   | 9   |



## 15. Minimum Personnel Requirements:

| MPR No.<br>Do not insert<br>wording<br>from ad | Personnel being used<br>to meet the MPR<br>(Individual(s) may not satisfy more than one MPR unless<br>specifically allowed by Attachment B of the<br>advertisement) | Firm employed by                  | Type of<br>License /<br>Certification<br>& Number | State of license | License /<br>Certification<br>Expiration Date |
|--|---|-----------------------------------|---|------------------|---|
| 1  | Miles Williams, PE  | Sigma Consulting Group, Inc.      | PE No. 23094                                      | LA               | Exp. 3/31/2024                                |
| 2  | Pobert Lear PE I SI   | Sigma Conquiting Group, Inc.      | DE No. 20204                                      |                  | Exp. 2/24/2022                                |
| 3  | Kobert Lear, PL, Lor  | Sigina Consulting Group, inc.     | PE NO. 29394                                      | LA               | Exp. 3/31/2023                                |
| 4  | Ralph Burgess, PLS  | Civil Design & Construction, Inc. | PLS No. 5040                                      | LA               | Exp. 9/30/2024                                |

#### 16. Staff Experience:

## See Resume Sheets on subsequent pages.

| Name                        | Project Responsibilities             | Firm                     |  |  |
|-----------------------------|--------------------------------------|--------------------------|--|--|
| Robert Lear, Jr., PE, LSI   | Contract Manager / Road Design       | SIGMA                    |  |  |
| Bryan Harmon, PE            | Road Design / Drainage Design        | CONSULTING<br>GROUP INC. |  |  |
| Greg Sepeda, PE             | QC/QA Manager / Bridge Design        | ENGINEERING & SURVEYING  |  |  |
| Alex Farr, PE               | Road Design / Maintenance of Traffic |                          |  |  |
| Joshua Renard, PE           | Road Design / Utility Coordination   |                          |  |  |
| Derek Wheat, PLS            | Survey Subconsultant Coordination    |                          |  |  |
| Josh Olivier, PE            | Bridge Design                        |                          |  |  |
| Miles B. Williams, PE       | Principal-in-Charge                  |                          |  |  |
| Ari Deitch, PE, PTOE        | Traffic Design                       | ARCADIS                  |  |  |
| Thomas Montz, PE, PTOE, PTP | Traffic Design                       |                          |  |  |
| Kester, Hollier, PE, PTOE   | Traffic Design                       |                          |  |  |
| Jose Rodriguez, PE          | Road Design                          |                          |  |  |
| Gabriel Arias, PE           | Road Design                          |                          |  |  |
| Karla E. Weston, PE         | Survey Principal                     |                          |  |  |
| Ralph Burgess, PLS          | QC/QA Manager / Survey               | INCORPORATED             |  |  |
| Chris Ballard, PLS          | Survey                               |                          |  |  |
| Philip Dupree               | Survey                               |                          |  |  |

| Firm employed by: SIGMA CONSULTING GROUP, INC. |   |   |  |                     |   |  |   |
|--|---|---|--|---------------------|---|--|---|
| Name   | Roe   | BERT LEAR, JR., P   | E, LSI                                     |                     | Years of relevant experience with this employer   | 23                                       | 0   |
| Title  | Vice  | -President / Sr. Proje  | ect Manager                                |                     | Years of relevant experience with other employer(s)   | 3  |   |
| Degree(s                                       | s) / Years /  | Specialization  |  | B                   | S / 1996 / Civil Engineering  |  |   |
| Active re                                      | egistration   | number / state / expirati   | on date                                    | P                   | E.0029394 / LA / 3-31-2023 &<br>SI.0000508 / LA / 9-30-2023                                       |  |   |
| Year reg                                       | istered   | 2001 / 2005   | Discipline                                 | C                   | ivil / Land Surveyor Intern   |  |   |
| Contract                                       | role(s) / b   | rief description of respo   | nsibilities                                | P                   | roject Manager / Road Design  |  |   |
| Experie<br>(mm/yy                              | ence dates<br>z–mm/yy)  | Experience and qualificate Experience dates should  | tions relevant to th<br>cover the time spe | e propo<br>cified i | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "den the applicable MPR(s). | signed inter                             | section", etc.  |
| 20<br>20                                       | 005<br>021  | NEPA and Transpor<br>ATSSA Traffic Contr  | tation Decision<br>rol Supervisor C        | Makin<br>Certific   | ng Seminar<br>cation #337850 (TCT/TCS)  |  |   |
| 10/2020  | I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)Mr. Lear is a road design engineer for the replacement of I-10, interchange improvements, and surface street improvements10/2020 – Presentmaintenance of traffic / sequencing plans, road plan preparation, coordinating with the CMAR contractor, design and<br>constructability reviews, proposed right of way and control-of-access limit determination and utility coordination. |   |  |                     |   | provements<br>tric design,<br>design and |   |
| 01/14  | - 07/16   | LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT<br>Mr. Lear served as the project manager and road design engineer for a 4-legged single lane roundabout in Lafayette Parish.<br>He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing, permanent<br>pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey<br>and SUE efforts. Utility locates included QL-D and QL-C locates. Mr. Lear coordinated with District 03 for utility relocation<br>requirements and needs  |  |                     |   |  |   |
| 01/14  | - 12/16   | LA 347: Roundabout @ Melancon Rd, St. Martin Parish, LA (H.009456) DISTRICT 03 PROJECT<br>Mr. Lear was the project manager, engineer of record and survey task manager for the design of a new 4-legged single lane<br>roundabout. He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing,<br>permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also was<br>responsible for establishing design required right of way lines, utility coordination and R/W map preparation. All deliverables<br>were prepared using InRoads Survey, CadConform and Microstation software. Utility locates included QL-D and QL-C locates.   |  |                     |   |  |   |
| 05/21 -  | Present   | <ul> <li>were prepared using InRoads Survey, CadConform and Microstation software. Utility locates included QL-D and QL-C locates</li> <li>LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415) DISTRICT 03 PROJECT</li> <li>Mr. Lear is the project manager and design engineer of record for drainage improvements along LA 352 in Henderson, LA The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flow near the interchange. Mr. Lear is responsible for coordinating the project with the District 03 administrator, DTOE, are engineer and utility coordinator design of the drainage systems maintenance of traffic plans, and construction plans.</li> </ul> |  |                     |   |  | iderson, LA.<br>iate regional<br>alance flows<br>DTOE, area<br>blans. |

#### Robert Lear, Jr. (continued)

| Firm employed by: SIGMA CONSULTING GROUP, INC. |           |   |  |  |  |  |  |
|--|-----------|---|--|--|--|--|--|
| Name   | Rов       | ERT LEAR, JR., PE, LSI  | Years of relevant experience with this employer  | 23   |  |  |  |
| Title  | Vice-     | President / Sr. Project Manager   | Years of relevant experience with other employer(s)  | 3  |  |  |  |
| 04/19 -  | - Present | I-220/I-20 Interchange & BAFB Access De<br>The project includes adding ramps to the exit<br>Base via a new 4-lane rural arterial roadway.<br>Project. He is responsible for preparing the g<br>geometrics for the interstate, diagonal and lo<br>sections, plan profile sheets, geometric contr<br>including cross drains, storm drains, side dra<br>plans, and construction support. Mr. Lear als<br>Stormwater Pollution Prevention Plan, Interc<br>striping plans, and transportation manageme<br>throughout the RFQ, RFP, design and constru-<br>participated in all of the required pre-constru-   | <b>I-220/I-20 Interchange &amp; BAFB Access Design-Build, Bossier Parish, LA</b><br>The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force<br>Base via a new 4-lane rural arterial roadway. Mr. Lear is the Roadway Design Engineer for this LaDOTD Design-Build<br>Project. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical<br>geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical<br>sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, drainage design<br>including cross drains, storm drains, side drains, roadside ditches, existing and design drainage maps, clearing and grubbing<br>plans, and construction support. Mr. Lear also was responsible for QA/QC reviews and/or independent reviews of the<br>Stormwater Pollution Prevention Plan, Interchange Modification Report re-evaluation, traffic control plans, signing and<br>striping plans, and transportation management plan. He also participated in partnering and coordination with the contractor<br>throughout the BEO. BEP, design and construction phases of the project. As key personnel for the DB process, be |  |  |  |  |
| 2013 - Present                                 |           | <ul> <li>participated in all of the required pre-construction project meetings as well as design-build team constructability reviews.</li> <li>I-10: East Jct. I-49 to LA 328, Lafayette &amp; St. Martin Parishes (H.003003) DISTRICT 03 PROJECTS</li> <li>I-10: LA 328 to LA 347, St. Martin Parish (H.010601)</li> <li>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)</li> <li>Mr. Lear was the project manager and lead roadway engineer for replacing and upgrading 16.6 miles of I-10 and intersection safety improvements from Lafayette to near Henderson, LA, including and a new overpass on Melvin Dupuis Rd over I-10. He was responsible for all roadway design components of the project including typical sections, plan profiles, geometric details, sequencing, level 4 TMP, and cross sections. The project scope also included two roundabouts at the ramp termini points and intersection improvements to LA352/LA347 based on traffic data and access management. Mr. Lear was the road design engineer for these one-lane roundabouts and intersection improvements and attended public meetings for DOTD environmental clearance. Mr. Lear also coordinated the roadway lighting and utility conflicts with subconsultants, and bridge design with DOTD Bridge section, and assembled the multi-discipline construction plan set. He is currently providing construction support for the project which includes partnering, value engineering proposal reviews and plan changes.</li> </ul> |  |  |  |  |  |
| 2017 - 2018                                    |           | LA 675 & LA 87 Improvements - SUE, Iber<br>Mr. Lear was the project manager and engir<br>LA. The project included Quality Level A, B<br>utilities owned by 9 companies. The 0.8 m<br>roadway and under sidewalks. Quality Level<br>QL-A test holes were performed by Sigma. F<br>DOTD standards.  | ia Parish, LA (H.011781) DISTRICT 03 PROJECT<br>neer of record for subsurface utility engineering on S. Ho<br>, C and D locates in accordance with CI/ASCE Standard<br>ile urban roadway included constricted right of way with<br>B locates were conducted using multiple geophysical sca<br>Final SUE plans were prepared in accordance with CI/ASC  | pkins Rd in New Iberia,<br>38-02 for underground<br>multiple utilities in the<br>anning methods, and 40<br>CE Standard 38-02 and |  |  |  |

| Firm employed by: SIGMA CONSULTING GROUP, INC.  |  |  |   |  |  |   |  |
|---|--|--|---|--|--|---|--|
| Name  | BR   | AN K. HARMON, PE                                     |   |  | Years of relevant experience with this employer  | 7   |  |
| Title   | Vice   | -President / Special                                 | Projects Engir  | neer   | Years of relevant experience with other employer(s)  | 33  |  |
| Degree(s  | s) / Years /   | Specialization                                       |   | E  | S / 1981 / Agricultural Engineering<br>S / 1982 / Civil Engineering  |   |  |
| Active re   | egistration  | number / state / expirati                            | on date   | 2  | 2595 / LA / 3-31-2023  |   |  |
| Year reg  | istered  | 1987/1994  | Discipline  | C  | civil / Environmental  |   |  |
| Contract  | role(s) / b  | rief description of respo                            | nsibilities   | H  | lydraulics / Road Design   |   |  |
| Experie<br>(mm/yy   | nce dates<br>–mm/yy)   | Experience and qualificat<br>Experience dates should | tions relevant to th cover the time spec  | e prop<br>cified i                                     | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s).   | signed inter  | rsection", etc.  |
| 20<br>20  | 008<br>010   | NEPA and Transport<br>Principles of Writing          | tation Decision<br>J Hwy Construct  | Makin<br>tion S  | ng Seminar<br>pecifications  |   |  |
| 10/20 - Present<br>10/20 - Present<br>10/20 - Bresent<br>10/20 - Present<br>10/20 - Presen |  |  | n Lane, West an<br>d hydraulics desi<br>n Metro Baton Ro<br>nage outfall asse<br>th limits defined to<br>D to orchestrate | id Eas<br>ign en<br>ouge.<br>ssmer<br>for ea<br>future | <b>St Baton Rouge Parish, LA (H.004100.5)</b><br>gineer for the replacement of I-10, interchange improvement<br>He is responsible for developing the existing and design dr<br>nts. Drainage is being designed for both final conditions a<br>ch GMP. In addition, he is coordinating with the CMAR<br>improvements to Dawson's creek at the Acadian Thruway | ents, and s<br>ainage ma<br>ind interim<br>contractor<br>y underpas | urface street<br>ps, hydraulic<br>construction<br>, DOTD, and<br>s at KCS RR |
| 2016  | 2016 – 2020       I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)         Mr. Harmon served as the project Design & Construction Liaison and lead drainage engineer for the project. He was responsible for coordinating design and construction efforts for the D-B team to ensure a cost effective and efficient delivery process. His drainage design responsibilities included open ditch and subsurface drainage systems, box culvert and cross drain extension design, and flood elevation assessments to ensure that project features did not negatively affect base flood elevations along the 6.7 mile project corridor. |  |   |  |  |   | was<br>ent delivery<br>and cross<br>base flood                               |
| 10/18 - 03/20       I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA         Mr. Harmon served as a drainage design engineer and was responsible for the evaluation and design of both the existing proposed drainage systems for this new 4-lane rural arterial and roadway and urban freeway interchange. In addition to standard DOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of imp to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern li of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Cl Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bos Levee District was required which included utilizing elements of thier 2-D Unsteadey Flow Hec Ras Model for this region. to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utili the HEC -RAS computer model.   |  |  |   |  | existing and<br>ddition to the<br>on of impacts<br>outhern limits<br>n Red Chute<br>n the Bossier<br>region. Due<br>pass utilizing   |   |  |

## Bryan Harmon (continued)

| Firm employed by: SIGMA CONSULTING GROUP, INC. |       |   |   |   |  |  |
|--|-------|---|---|---|--|--|
| Name   | BRY   | AN K. HARMON, PE  | Years of relevant experience with this employer   | 7   |  |  |
| Title  | Vice- | President / Special Projects Engineer   | Years of relevant experience with other employer(s)   | 33  |  |  |
| 04/18 – Present                                |       | Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish,<br>LA (H.004791)<br>Sigma is providing the drainage design for this major highway improvement that is being designed and constructed under<br>this alternative delivery method. Mr. Harmon is serving as the lead drainage engineer and is responsible for the coordination<br>and proper consideration of the impacts that the large multi-jurisdictional pumped drainage outfall systems have on the project<br>drainage system performance. Project drainage considerations include bridge deck scupper design conforming to FHWA<br>HEC-21 requirements, and standard storm drainage piping and inlet design for associated local roadway improvements. The<br>drainage system design must account for the final full build conditions but must also function during the various construction<br>sequences with the addition of temporary systems. |   |   |  |  |
| 05/21 - Present                                |       | LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415) DISTRICT 03 PROJECT<br>Mr. Harmon is the lead hydraulic engineer for drainage improvements along LA 352 in Henderson, LA. The project includes<br>removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems<br>near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange.<br>Mr. Harmon is responsible for performing HEC-RAS modeling and HYDRO-WIN calculations on the main outfall channel,<br>developing drainage alternatives and associated costs, and QA/QC on the construction plans.  |   |   |  |  |
| 01/22 – Present                                |       | Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)<br>Mr. Harmon is the lead hydraulics engineer for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase<br>capacity. His responsibilities include development of the existing and design drainage maps, cross drain design, storm drain<br>system design, open ditch design, and evaluation of impacts for open ditch vs storm drain system alternatives along the<br>project corridor.   |   |   |  |  |
|  |       | <ul> <li>Prior to joining Sigma, Mr. Harmon spent the for the City of Baton Rouge and Parish of Ea Deputy Director/Chief Engineer and 15 yea Engineer, one of his primary responsibilities the Department. Specific duties included acquisitions, standard plans and specification bid phase services, and construction admin Baton Rouge Parish.</li> <li>As an owner's representative for EBR parish, partnering, performed design and constructation cost estimates for project.</li> </ul>  | previous year serving as the Interim Director of the Depar<br>ast Baton. Prior to his tenure as the Director, he served<br>ars as the Assistant Chief and Drainage Engineer. As<br>included the over sight of all engineering functions and p<br>the administration of flood plain and storm water reg<br>ns, engineering studies and plan development, cost estim<br>istration for several types of municipal infrastructure pro-<br>he coordinated with contractors for construction projects<br>polity reviews, evaluated value engineering proposals, and | tment of Public Works<br>9.5 years as the DPW<br>Deputy Director/Chief<br>oroject construction for<br>ulations, right of way<br>lates, funding pursuits,<br>ojects throughout East<br>, participated in project<br>prepared independent |  |  |

| Firm employed by: SIGMA CONSULTING GROUP, INC. |   |  |  |                    |  |               |   |  |
|--|---|--|--|--------------------|--|---------------|---|--|
| Name   | Gre   | GORY P. SEPEDA, PE   |  |                    | Years of relevant experience with this employer  | 25            |   |  |
| Title  | Vice  | President / Chief Er   | ngineer  |                    | Years of relevant experience with other employer(s)  | 5             |   |  |
| Degree(s                                       | s) / Years /  | Specialization   |  | E                  | 8S / 1990 / Civil Engineering<br>1S / 2002 / Civil Engineering - Structural                        |               | The second se |  |
| Active re                                      | egistration   | number / state / expirat   | ion date   | 2                  | 6669 / LA / 9-30-2024  |               |   |  |
| Year reg                                       | istered   | 1996   | Discipline   | C                  | Sivil  |               |   |  |
| Contract                                       | role(s) / b   | rief description of respo  | onsibilities   | P                  | Project Manager / Road Design / QC   |               |   |  |
| Experie<br>(mm/yy                              | ence dates<br>y-mm/yy)  | Experience and qualifica<br>Experience dates should  | tions relevant to th<br>cover the time spe   | e prop<br>cified i | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s). | signed inters | section", etc.  |  |
| 20<br>20<br>20                                 | 012<br>016<br>018   | NEPA and Transportation Decision Making Seminar<br>Maintenance and Rehabilitation of Historic Bridges Course<br>Traffic Control Supervisor (TCS) course  |  |                    |  |               |   |  |
| 2014 –   | <ul> <li>Present</li> <li>Ambassador Caffery &amp; US 90 I/C (Future I-49), Lafayette, LA (H.002868) DISTRICT 03 PROJECT</li> <li>Mr. Sepeda is the lead bridge engineer for the final design and plan development of a new bridge structure over<br/>Ambassador Caffery Boulevard for future I-49. The proposed structure was designed according to the AASHTO L.R.F.D.<br/>design guide and utilized the newly developed "LG" prestressed concrete girders. Mr. Sepeda served in the checking and<br/>QC role on the project, while supervising the development of the construction plans and cost estimate. He will be performing<br/>construction support services and shop drawing reviews.</li> </ul> |  |  |                    |  |               |   |  |
| 07/12  | - 10/18   | I-10 Widening, LA30<br>Mr. Sepeda served a<br>responsible for the or<br>production. Sigma is<br>supported bridge stru-<br>structure over the ma  | <ul> <li>I-10 Widening, LA30 - LA22, Ascension Parish, LA (H.009276)</li> <li>Mr. Sepeda served as project manager and lead bridge engineer for the widening of a 5 mile segment of I-10. He was responsible for the overall project management and coordination with the subconsultant team, road bridge design, and plan production. Sigma is also responsible for the design of a concrete slab span bridge, and the deck design of four girder-supported bridge structures. Under a contract supplement, Mr. Sepeda lead the design for a replacement of the LA 941 structure over the mainline interstate. LA 941 is a rural 2-lane roadway.</li> </ul> |                    |  |               |   |  |
| 08/12 –  | - Present   | <ul> <li>structure over the mainline interstate. LA 941 is a rural 2-lane roadway.</li> <li>Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)</li> <li>Mr. Sepeda is the project manager for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. The project began with an Environmental Assessment (E.A.) and NEPA environmental documentation. Mr. Sepeda worked with all technical team members and successfully obtained a FONSI. As the project continues into plan development, Mr. Sepeda is coordinating the topographic survey to identify major topography and existing utilities, as well as developing geometry consistent with MOVEBR and DOTD guidelines. With the route being a state highway, coordinating with LA DOTD is a necessity. Sigma is facilitating the development of a traffic study with a subconsultant, following criteria established by the project provide the project approach and existing and provide the project approach and approach and a state development of a traffic study with a subconsultant, following criteria established by the provide th</li></ul> |  |                    |  |               |   |  |

## Gregory Sepeda (continued)

| Firm em   | Firm employed by: SIGMA CONSULTING GROUP, INC. |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Name  | Gre  | gory P. Sepeda, PE   | Years of relevant experience with this employer  | 25   |  |  |
| Title   | Vice   | President / Chief Engineer   | Years of relevant experience with other employer(s)  | 5  |  |  |
| 12/14 – 04/19<br>S. Acadian Thruway (Perkins Rd - LA 73),<br>Mr. Sepeda is the project manager for the<br>Acadian Thruway. The project includes repla<br>Mr. Sepeda is responsible for all project mar  |  | <b>S. Acadian Thruway (Perkins Rd - LA 73),</b><br>Mr. Sepeda is the project manager for the s<br>Acadian Thruway. The project includes repla<br>Mr. Sepeda is responsible for all project man   | <b>East Baton Rouge Parish, LA (H.011261)</b><br>safety project designed to reduce the number of accide<br>acing the asphalt overlay and improving the intersection o<br>agement, coordinating the design effort and quality contr                                       | nts along the stretch of<br>Jesign at Claycut Road.<br>ol.   |  |  |
| <ul> <li>10/16 – 06/20</li> <li>I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)</li> <li>Mr. Sepeda served as the project Design Quality Manager (DQM) for all design efforts on the project. Mr. Sepeda develop a project specific Design Quality Plan as well as QA processes to ensure that the design activities comply with the Contrac requirements. As a component of the QA process, he also performed design assessment reviews of every submittal to revier for general compliance with the requirements of the Contract, taking into consideration the proposed method of construction and covered areas such as: design criteria; codes and standards; constructability; and fatigue and durability performance. F critical structural members, Mr. Sepeda also performed an independent analytical design check using separate calculation to verify the structural adequacy and integrity of the members. This analytical check included the following: structural geome &amp; modeling; material and member properties; loads; and structural boundary conditions.</li> </ul> |  |  |  |  |  |  |
| 06/13 -   | Present  | I-10: East Jct. I-49 to Atchafalaya Floody<br>DISTRICT 03 PROJECTS<br>Mr. Sepeda oversaw the development of all a<br>widening project from I-49 to the Atchafala<br>requiring three separate TMPs. The first 2 a<br>drafted this plan which included cost estimate   | vay Bridge, Lafayette & St. Martin Parishes (H.00300<br>sequencing and the Level 4 Transportation Management<br>aya Floodway Bridge. This roadway improvement is sp<br>segments also required an Initial Financial Plan to be d<br>es, scheduling, and identifying risk. | <b>)3/H.010601/H.003014)</b><br>Plan (TMP) for the I-10<br>lit into three segments<br>eveloped. Mr. Sepeda |  |  |
| 04/12   | - 12/12  | 12/12 Jones Creek Road Improvements, East Baton Rouge Parish, LA (H.007137)<br>Mr. Sepeda was responsible for the quality control / quality assurance for the design of a 5-lane urban roadway from Tiger<br>Bend Road to George O'Neal Road. With a special focus on the drainage, utility conflict points, and maintenance of traffic<br>impacts, he helped produce a final deliverable with minimal disruptions to the local residents. He specially coordinated the<br>design and placement of a large 36" sanitary sewer force main with the proposed roadway construction. Mr. Sepeda also<br>prepared the safety performance computations per the Predictive Method of the Highway Safety Manual. |  |  |  |  |
| 09/13 – 10/15   |  | US 171: J-Turns @ N. Perkins Ferry Road<br>Mr. Sepeda was the project manager for the<br>LA. He is responsible for the road design, d<br>using CADConform and LA DOTD electronic   | <b>, Calcasieu Parishes (H.010197)</b><br>e design of J-Turns and turn lanes at a 3-leg intersection<br>rainage design, and plan production. All work for this pro<br>plan delivery requirements.  | north of Lake Charles,<br>oject is being performed   |  |  |

| Firm em   | Firm employed by: SIGMA CONSULTING GROUP, INC. |   |   |   |  |   |   |  |
|---|--|---|---|---|--|---|---|--|
| Name  | ALE  | x D. Farr, PE   |   |   | Years of relevant experience with this employer  | 8   | 0   |  |
| Title   | Project Engineer                               |   |   |   | Years of relevant experience with other employer(s)  | 2   | E   |  |
| Degree(s  | s) / Years /                                   | Specialization  |   | E   | 3S / 2011 / Civil Engineering  |   |   |  |
| Active re   | egistration                                    | number / state / expirati   | on date   | 4   | 0426 / LA / 9-30-2024  |   |   |  |
| Year reg  | istered  | 2016  | Discipline  | C   | livil  |   |   |  |
| Contract  | role(s) / br                                   | ief description of respo  | nsibilities   | F   | Road Design / Maintenance of Traffic   |   |   |  |
| Experie<br>(mm/yy   | ence dates<br>z–mm/yy)                         | Experience and qualifica<br>Experience dates should   | tions relevant to th<br>cover the time spe  | e prop<br>cified i  | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "den the applicable MPR(s).  | esigned int   | ersection", etc.  |  |
| 20<br>20  | 019<br>018                                     | Traffic Control Supe<br>Traffic Engineering   | ervisor (TCS) co<br>Analysis Proces   | urse<br>ss and  | l Report Course (Modules 1, 2 & 3)   |   |   |  |
| 2016 – Present<br>2016 – Present<br>2016 – Present<br>2016 – Present<br>2016 – Present  |  |   |   | H.010601) DISTRICT 03 PROJECT<br>Transportation Management Plan (TMP) for the I-10 widen<br>oute analysis, public information, stakeholder involvement<br>pact management strategies. Mr. Farr was also respon-<br>ing, quantity computations and pay items using DOT<br>ration. He is currently providing construction support<br>tion and plan changes. | ing projec<br>, traffic ar<br>sible for f<br>D 2017<br>t <b>for the j</b>  | ct from LA 328<br>nd safety data,<br>the suggested<br>specifications,<br><b>project which</b> |   |  |
| 2014 –  | Present  | I-10: East Jct. I-49 to<br>Mr. Farr was respons<br>I-49 to the LA 328. T<br>safety data, temporar<br>suggested sequence   | <b>b LA 328, Lafaye</b><br>ible for producing<br>he TMPs pertain<br>y traffic control,<br>of construction d | ette &<br>g the L<br>led to<br>and w<br>esign,  | <b>St. Martin Parishes (H.003003) DISTRICT 03 PROJEC</b><br>evel 4 Transportation Management Plan (TMP) for the I-1<br>alternate route analysis, public information, stakeholder<br>ork zone impact management strategies. Mr. Farr was a<br>temporary signing design, quantity/pay item computation | T<br>0 widenin<br>involveme<br>also respo<br>s, and roa                                       | ig project from<br>ent, traffic and<br>onsible for the<br>adway plans |  |
| 01/14   | - 08/16  | <ul> <li>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014) DISTRICT 03 PROJECT</li> <li>Mr. Farr was responsible for producing the Level 4 Transportation Management Plan (TMP) for the I-10 widening project from LA 347 to the Atchafalaya Floodway Bridge. The TMP pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr was also responsible for the suggested sequence of construction, temporary signing, quantity computations and pay items using DOTD 2016 specifications.</li> </ul> |   |   |  |   |   |  |
| DOTD 2016 specifications.         DOTD 2016 specifications.         LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.0         Mr. Farr was responsible for the permanent signing and s         project. Mr. Farr also assisted in the design of the suggester |  |   |   | <b>Parish, LA (H.002163) DISTRICT 03 PROJECT</b><br>t signing and striping design plans and quantity/pay iter<br>of the suggested sequence of construction.   | n comput   | ations for this   |   |  |

Alex Farr (continued)

| Firm em   | ployed by:  | SIGMA CONSULTING GROUP, INC.  |  |   |
|---|---|---|--|---|
| Name  | ALE   | x D. Farr, PE   | Years of relevant experience with this employer  | 8   |
| Title   | Proje   | ct Engineer   | Years of relevant experience with other employer(s)  | 2   |
| 01/14 – 12/16 LA347: Roundabout @ Melancon Road, S<br>Mr. Farr was responsible for the perman<br>development, Level 2 TMP, and quantity/pay   |   | LA347: Roundabout @ Melancon Road, S<br>Mr. Farr was responsible for the perman-<br>development, Level 2 TMP, and quantity/pay  | t. Martin Parish, LA (H.009456) DISTRICT 03 PROJEC<br>ent signing and striping design plans, suggested sec<br>item computation for a single lane roundabout near Brea  | T<br>quence of construction<br>aux Bridge, LA.  |
| 10/2020 - PresentI-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)Mr. Farr was responsible for developing the proposed vertical profiles along the I-10 mainline corridor, service roads, sur<br>streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting<br>profile to meet the minimum vertical clearance per LA DOTD minimum design guidelines. This was performed along<br>corridor by using as-builts pertaining to their respective locations. Mr. Farr was also responsible for calculating the road<br>and bridge construction costs for the Project Opinion of Probable Costs for the I-10 Corridor Environmental Assessment. |   |   |  |   |
| 02/17   | <ul> <li>02/17 - 06/20</li> <li>I-10: Highland Rd to LA73 Design-Build Project, East Baton Rouge/Ascension Parishes. H.009250</li> <li>Mr. Farr was responsible for preparing the Transportation Management Plan (TMP) and Safety Analysis for this project. safety analysis was prepared to determine what safety concerns related to the construction and maintenance of traffic phasing. Mr. Farr was also responsible for designing and preparing the suggested sequence of construction, guardrail design, and the guantity estimate for the above-mentioned project.</li> </ul> |   |  |   |
| 04/19 -   | 04/19 - Present       I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA         Mr. Farr was responsible for performing the design of the interchange ramp profiles, super elevation calculations, and graphical grades. Mr. Farr was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimates.   |   |  |   |
| 2021 –  | Present   | Rural Bridge Replacement Initiative Phase<br>Mr. Farr is responsible for the plan developm<br>sites throughout south Louisiana. This inclu<br>vertical geometry. As some bridge sites are<br>also responsible in designing a detour route of<br>is also responsible for the guardrail design a<br>Project Manager in subconsultant coordination | e II (South), LA (440001338) (2021 – Present)<br>ent of this project, which is for 16 state projects including<br>des preparing the Project Design Report (PDR) as we<br>allowed to be closed for construction while others must r<br>or diversion road, which includes a suggested sequence<br>at each bridge site. Along with plan development, Mr. F<br>on as well as invoicing and progress reporting to the LAD | 29 bridge replacement<br>as the horizontal and<br>emain open, Mr. Farr is<br>of construction. Mr. Farr<br>arr will be assisting the<br>OTD Project Manager. |

| Firm employed by: SIGMA CONSULTING GROUP, INC.  |   |   |   |  |  |   |   |
|---|---|---|---|--|--|---|---|
| Name  | Jos   | H K. RENARD, PE   |   |  | Years of relevant experience with this employer  | 16  |   |
| Title   | Proje   | ect Manager   |   |  | Years of relevant experience with other employer(s)  | 0   |   |
| Degree(s  | s) / Years /  | Specialization  |   | E  | 3S / 2006 / Civil Engineering  |   |   |
| Active re   | gistration  | number / state / expirati   | on date   | Ρ  | PE.0036015/ LA/ 3-31-2023  |   |   |
| Year registered 2010 Discipline C   |   | livil   |   |  |  |   |   |
| Contract  | role(s) / br  | rief description of respo   | nsibilities   | R  | Road Design / Utility Coordination   |   |   |
| Experie<br>(mm/yy   | nce dates<br>–mm/yy)  | Experience and qualificat<br>Experience dates should  | tions relevant to th cover the time spe   | e prop<br>cified i                             | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de in the applicable MPR(s).  | signed inters                               | section", etc.  |
| 20  | )21   | Traffic Control Supe  | rvisor (TCS) co   | urse   |  |   |   |
| 10/16   | 10/16 – 06/20 II-10: Highland Rd to LA73 Design-Build Project, East Baton Rouge/Ascension Parishes. H.009250<br>Mr. Renard served as the utility coordinator for this interstate design build project. He communicated with and gathered information from utility owners to ensure that the road was designed with minimal utility conflicts. Mr. Renard coordinated efforts to have telecommunications, water, and gas lines marked in the field and then led efforts to have Level A test hole performed to ensure a successful no-conflict design. |   |   |  |  | thered<br>rdinated<br>test holes            |   |
| 08/19   | - 10/19   | I-220/I-20 Interchang<br>This project will extend<br>to the Barksdale Air F<br>utility conflict matrix d  | <b>Je &amp; BAFB Acce</b><br>d I-220 south at t<br>Force Base. Mr. I<br>evelopment, utili | e <b>ss De</b><br>he I-22<br>Renarc<br>ty cool | <b>sign-Build, Bossier Parish, LA</b><br>20/I20 interchange with new roadway and bridges connecti<br>d was responsible for all Subsurface Utility Engineering fo<br>rdination, utility relocation, Level D through A locates and | ng and crea<br>or this proje<br>test holes. | ating access<br>ect, including                              |
| 04/18 –   | Present   | Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish,<br>LA (H.004791)<br>Mr. Renard served as the drainage design Quality Control checker for this road design project. His efforts ensure that the<br>project's drainage meets the requirements of the owner, parish and project specifications. This included technical checking for<br>the existing and design drainage maps, HydroWIN calculation checks, drainage plan profile checking, and hydraulic<br>computation book checking. |   |  |  |   |   |
| computation book checking.         I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)         Mr. Renard is a roadway and utility engineer for the replacement of I-10, interchange improvements, and surface stree improvements through Metro Baton Rouge. He prepared a utility conflict matrix for the project and designed a utility duct bat to expedite utility relocations with minimal construction conflicts. The duct bank design was an independent GMP for CMA delivery. He is also designing drainage and roadway plans for surface streets between Washington Street and Acadian Bly |   |   |   |  |  |   | Irface street<br>ty duct bank<br>P for CMAR<br>cadian Blvd. |

## Josh Renard (continued)

| Firm em   | irm employed by: SIGMA CONSULTING GROUP, INC. |  |   |  |  |  |  |
|---|---|--|---|--|--|--|--|
| Name  | Josi  | H K. RENARD, PE  | Years of relevant experience with this employer   | 16   |  |  |  |
| Title   | Proje   | ect Manager  | Years of relevant experience with other employer(s)   | 0  |  |  |  |
| 08/19 – PresentMOVEBR Infrastructure Enhancement and Traffic Mitigation Program<br>East Baton Rouge Parish, LA - Lead Utility Coordinator, EBR Parish, LA (08/19 - Present)<br>Mr. Renard serves as the main point of contact for utilities on the MoveBR transportation, road, and traf<br>leading the effort to create the Utility Coordination Process and Design Guidelines for Designers - Utility Ser<br>in this role during both the design and construction phase for the program. He will also utilize SUE where a<br>pertinent location information for design efforts. He will also work to ensure that relocations are successf<br>utility conflicts encountered during construction.   |   |  |   | d traffic program. He is<br>t <u>y Section</u> . He will serve<br>here appropriate to gain<br>cessful and will resolve               |  |  |  |
| 2017 - 2018 LA 675 & LA 87 Improvements - SUE, Iberia Parish, LA (H.011781) DISTRICT 03 PROJECT<br>Mr. Renard served as the office SUE manager for this DOTD project, which included Level A through D undergroun<br>location work as well as video inspection of sewer mainlines and laterals along a one mile section of Hopkins Street<br>Iberia, LA. Under his guidance Sigma located utilities through Quality Level A-D. His responsibilities included coordinat<br>utility companies and local government representatives to obtain as-built drawings, meeting with DOTD represen<br>design engineers, surveyors and subcontractors to coordinate the location work, providing valuable utility location info<br>to the design team. |   |  |   | th D underground utility<br>Hopkins Street in New<br>cluded coordination with<br>DOTD representatives,<br>ility location information |  |  |  |
| 2019  | - 2020  | Jacock Road Bridge Replacement at Barr<br>Mr. Renard served as the construction mana<br>included reviewing shop drawings, RFI's,<br>coordination. This bridge removal and installa   | ow Fork Creek, West Feliciana Parish<br>ager for this concrete slab span bridge replacement proj<br>contractor's invoices, resolving construction related<br>ation project followed DOTD 2016 specifications. | ject. His responsibilities<br>problems, and utility  |  |  |  |
| 01/14 – 07/16 LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT<br>Mr. Renard served as a project engineer for the design of a single lane roundabout in Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT<br>Mr. Renard served as a project engineer for the design of a single lane roundabout in Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT<br>Mr. Renard served as a project engineer for the design of a single lane roundabout in Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT<br>Mr. Renard served as a project engineer for the design of a single lane roundabout in Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT   |   | Parish, LA (H.002163) DISTRICT 03 PROJECT<br>the design of a single lane roundabout in Lafayette Parisl<br>approach legs, the splitter islands, and the transition to th             | h. He designed the<br>ne existing roadways.   |  |  |  |  |
| 01/14   | - 12/16                                       | LA347: Roundabout @ Melancon Road, S<br>Mr. Renard served as a project engineer for<br>typical sections and graphical grades for the<br>He also prepared quantities for the project. | t. Martin Parish, LA (H.009456) DISTRICT 03 PROJE<br>the design of a single lane roundabout in St. Martin Paris<br>approach legs, the splitter islands, and the transition to th                              | ECT<br>h. He designed the<br>ne existing roadways.   |  |  |  |

| Firm employed by: SIGMA CONSULTING GROUP, INC. |  |   |  |                     |  |              |   |
|--|--|---|--|---------------------|--|--------------|---|
| Name   | DEREK S. WHEAT, PLS  |   |  |                     | Years of relevant experience with this employer  | 7            |   |
| Title  | Land   | d Surveyor  |  |                     | Years of relevant experience with other employer(s)  | 4            | <u> </u>  |
| Degree(s                                       | s) / Years /   | Specialization  |  | B                   | S / 2009 / Industrial Technology   |              |   |
| Active re                                      | egistration  | number / state / expirati   | on date  | 5                   | 213 / LA / 9-30-2023   |              |   |
| Year reg                                       | istered  | 2019  | Discipline   | S                   | Survey   |              |   |
| Contract                                       | role(s) / b  | rief description of respo   | nsibilities  | Ρ                   | Project Surveyor   |              |   |
| Experie<br>(mm/yy                              | nce dates<br>–mm/yy)   | Experience and qualificat<br>Experience dates should  | tions relevant to th cover the time spe  | e prope<br>cified i | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "c<br>n the applicable MPR(s). | lesigned int | ersection", etc.  |
| 20   | 019  | Traffic Control Supe  | rvisor (TCS) co  | urse                |  |              |   |
| 2019   | 9-2020   | Hooper Road (LA 408) Blackwater Bayou – Joor Road, East Baton Rouge Parish (H.002316)<br>The project involved topographic surveying and engineering design for the upgrade of the existing 2-lane roadway with ope<br>ditches to a 4-lane boulevard with subsurface drainage. Mr. Wheat is the surveyor of record for the topographic survey of th<br>1.75 mile suburban arterial roadway. He was responsible for performing and managing the GPS control, digital leveling for<br>vertical control, RTK survey, robotic total station survey, and scanning of the project corridor. The survey was conducted usin<br>DOTD surveying standards and CadConform deliverables. |  |                     |  |              | way with open<br>c survey of the<br>ital leveling for<br>onducted using               |
| 20   | 020  | Jones Creek Road /<br>Mr. Wheat served as t<br>a wooded tract of lar<br>Highway right-of-way<br>data via conventional,<br>all known facilities w<br>consisted of plan and<br>Digital Terrain Model.   | Jones Creek Road / Airline Hwy, East Baton Rouge Parish<br>Mr. Wheat served as the Professional Land Surveyor and topographic survey manager of this proposed road extension through<br>a wooded tract of land. All improvements at the proposed intersection locations within the Airline Highway and Jefferson<br>Highway right-of-way were located including all drainage, utilities, and pavement limits. Mr. Wheat oversaw the collection of<br>data via conventional, GPS, and scanning surveying methods. Mr. Wheat coordinated with utility owners in the area to ensure<br>all known facilities were marked and surveyed. Mr. Wheat's deliverables to the client and MOVEBR Program Managers<br>consisted of plan and profile sheets, topographic and utility CAD drawings, list of utility owners with contact information, and a<br>Digital Terrain Model |                     |  |              |   |
| 2015   | 2015-2018 consisted of plan and profile sheets, topographic and utility CAD drawings, list of utility owners with contact information, an Digital Terrain Model.<br>I-10: LA 328 to LA 347, St. Martin Parish (H.010601) DISTRICT 03 PROJECT<br>Mr. Wheat served as a party chief for topographic surveying of existing features and utilities for pavement replacement of 6 miles of I-10 between Breaux Bridge and Henderson, LA. He was responsible for data collection, utility coordination with t SUE subconsultant, data processing and mapping. The survey was performed using DOTD codes and linework automatic Mr. Wheat also coordinated with utility companies for QL-C and QL-B locates for utilities along Melvin Dupuis Road, which being removed and replaced with a structure over the interstate. Mr. Wheat also performed the supplemental topographic autowing along Melvin Dupuis Road. |   |  |                     |  |              | cement of 6.8<br>lation with the<br>k automation.<br>Road, which is<br>al topographic |

| Firm em  | Firm employed by: SIGMA CONSULTING GROUP, INC. |   |   |  |  |  |
|--|--|---|---|--|--|--|
| Name   | Der  | EK S. WHEAT, PLS  | Years of relevant experience with this employer   | 7  |  |  |
| Title  | Land   | Surveyor  | Years of relevant experience with other employer(s)   | 4  |  |  |
| I-10: LA 347 to Atchafalaya Floodway Brid<br>Mr. Wheat served as a party chief for topogra<br>miles of I-10 near Henderson, LA. He was<br>data processing and mapping. He also per<br>survey was performed using DOTD codes at   |  | I-10: LA 347 to Atchafalaya Floodway Brid<br>Mr. Wheat served as a party chief for topogra<br>miles of I-10 near Henderson, LA. He was<br>data processing and mapping. He also perf<br>survey was performed using DOTD codes ar   | Ige, St. Martin Parish (H.003014) DISTRICT 03 PROJ<br>aphic surveying of existing features and utilities for paven<br>responsible for data collection, utility coordination with t<br>formed the topographic survey along LA347 and the LA<br>and linework automation.  | ECT<br>nent replacement of 2.7<br>he SUE subconsultant,<br>352 outfall canal. The  |  |  |
| 2018 Town of Dubach Sidewalks, Lincoln Parish (H.011772)<br>Mr. Wheat served as a party chief for topographic surveying and SUE designations along 3 streets in the Town of Dul<br>The survey included supplemental topography for utility, building lines, awnings, drainage features, sidewalks and<br>features. The survey was performed using DOTD codes and linework automation. He also was responsible for on-site<br>control.  |  |   |   | in the Town of Dubach.<br>es, sidewalks and misc.<br>ponsible for on-site traffic  |  |  |
| 2017-2018  |  | LA 675 & LA 87 Improvements New Iberia<br>Mr. Wheat served as the QL-B designating a<br>New Iberia, LA H.011781. The project inclu-<br>38-02 for underground utilities owned by 9 c<br>multiple utilities in the roadway and under s<br>scanning methods, and 40 QL-A test holes of<br>CI/ASCE Standard 38-02 and DOTD standar<br>sheets, SUE plan preparation, coordinating w  | , LA (H.011781) DISTRICT 03 PROJECT<br>and QL-A locates party chief subsurface utility engineeri<br>ded Quality Level A, B, C and D locates in accordance<br>companies. The 0.8 mile urban roadway included cons<br>idewalks. Quality Level B locates were conducted usin<br>were performed by Sigma. Final SUE plans were prepa<br>ds. He was responsible for QL-B locates, shot count she<br>with utility companies, unknown line research and traffic of | ng on S. Hopkins Rd in<br>with CI/ASCE Standard<br>tricted right of way with<br>ng multiple geophysical<br>ared in accordance with<br>ets, QL-A test hole data<br>control for the project. |  |  |
| 2015   | 5-2016   | Jacock Road Bridge Replacement, West F<br>The project involved topographic surveying a<br>Bridge at Barrow Fork Creek. The work incl<br>and preparation of construction plans. Mr. W<br>road, and bridge structure.   | Feliciana Parish (15-HMP-PW-01)<br>nd engineering design for the replacement of the existing<br>uded topographic surveying, drainage design, geometric<br>/heat set the project control and also collected the topogr   | bridge on Jacock Road<br>design, bridge design,<br>aphic data of the creek,  |  |  |
| 2021 – Present Rural Bridge Replacement Initiative Phase II (South), LA (440001338)<br>Mr. Wheat served as the Professional Land Surveyor and topographic survey manag<br>south Louisiana. Mr. Wheat oversaw the collection of data via conventional and<br>deliverables meeting all LADOTD requirements. Mr. Wheat was in responsible charge<br>depicting existing site conditions, baseline survey alignments, surface models, an als<br>investigation and depiction of utilities at each site. Knowing that surveyors are general<br>Mr. Wheat has maintained a positive relationship with nearby residents and has facilita<br>the parties. Mr. Wheat has also provided right-of-way information to assist in the develop a plan which best fits the overall objective in an efficient and least costly mark |  | <b>e II (South), LA (440001338)</b><br>Surveyor and topographic survey manager for seven (7) collection of data via conventional and GPS surveyir nts. Mr. Wheat was in responsible charge for creating to arvey alignments, surface models, an also coordinated w site. Knowing that surveyors are generally the first face ship with nearby residents and has facilitated contacts an pht-of-way information to assist in the design of the sites ective in an efficient and least costly manner. | bridge sites throughout<br>ng methods, providing<br>pographic deliverables<br>ith utility owners for the<br>the public sees onsite,<br>id cooperation between<br>s so that the client can   |  |  |  |

| Firm employed by: SIGMA CONSULTING GROUP, INC.   |   |   |  |                    |  |  |   |
|--|---|---|--|--------------------|--|--|---|
| Name   | Jos   | HUA P. OLIVIER, P   | PE   |                    | Years of relevant experience with this employer  | 4.5  | 0   |
| Title  | Proje   | ject Engineer   |  |                    | Years of relevant experience with other employer(s)  | 0  |   |
| Degree(s   | s) / Years /  | Specialization  |  | E                  | S / 2017 / Civil Engineering   |  |   |
| Active re  | egistration   | number / state / expirati   | on date                                    | P                  | PE.0046498 / LA / 9-30-2024  |  |   |
| Year registered 2022 Discipline 0  |   | C   | livil                                      |                    |  |  |   |
| Contract   | role(s) / br  | rief description of respo   | nsibilities                                | E                  | Bridge Design  |  |   |
| Experie<br>(mm/yy  | nce dates<br>–mm/yy)  | Experience and qualifica<br>Experience dates should   | tions relevant to th<br>cover the time spe | e prop<br>cified i | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "de n the applicable MPR(s). | signed inters                              | section", etc.  |
| 04/21 - Present Rural Bridge Replacement Initiative Phase II (South), LA (Contract 440001338, Multiple State Project Nos.) Mr. Olivier is in charge of managing 4 of 16 state projects for this contract including 6 bridge replacements throughout so Louisiana. This work involves assessing site conditions, evaluating structure types, and designing the roadway approach He will be responsible for preparing the submittals for these projects and will submit monthly reports as work progresses.  |   |   |  |                    |  | ghout south<br>approaches.<br>gresses.     |   |
| 07/18  | 7/18 – 07/20 Multiple Bridge Replacements, East Baton Rouge Parish, LA (08-BR-CI-0025 & 08-BR-PT-0002)<br>Mr. Olivier was responsible for the superstructure and substructure design update for the Woodland Ridge Blvd. and Congr<br>Blvd. bridge replacements. All design was updated to meet the AASHTO L.R.F.D design guidelines and LADOTD's Bri<br>Design and Evaluation Manual.  |   |  |                    | ıd Congress<br>TD's Bridge   |  |   |
| 04/18  | Pecue Lane / I-10 Interchange, East Baton Rouge Parish, LA (H.004104)<br>This project consists of the design of an interchange with multiple through and turn lanes on Pecue Lane, an entrance ramp<br>and exit ramp on eastbound Interstate 10, an entrance and exit ramp on westbound Interstate 10, replacing the current Pecue<br>Lane slab span bridge over Wards Creek, and widening the I-10 girder bridge over Wards Creek. Mr. Olivier was responsible<br>for the superstructure and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>of the Desuge Lane slab span purperstructure and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span purperstructure and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span purperstructure and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span bridge over Wards Creek. Mr. Olivier was responsible<br>the Desuge Lane slab span bridge over Wards Creek and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span bridge over Wards Creek and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span bridge over Wards Creek and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span bridge over Wards Creek and substructure design of the I-10 East bound and West bound bridge widening as well as the checking<br>the Desuge Lane slab span bridge over Wards Creek and substructure design of the I-10 East bound and West bound bridge widen the lane slab span bridge over Wards Creek and with the lane slab span bridge over Wards Creek and with the lane slab span bridge over Wards Creek and with the lane slab span bridge over Wards Creek and with the lane slab |   |  |                    |  |  | ance ramp<br>rent Pecue<br>esponsible<br>le checking<br>structures. |
| 09/18  | - 08/20   | LA 3213 Gramercy Bridge Approach (Westbank), St. John the Baptist Parish, LA (H.002960)<br>This project consists of constructing a new overpass along the existing horizontal alignment on LA 3213 to create a grade<br>separation over the existing Union Pacific railroad tracks while remaining inside the existing right-of way and includes the<br>design of an on-site diversion to route traffic around the construction zone. Mr. Olivier performed the final structural design for<br>all superstructure and substructure components. All design was performed with the AASHTO L.R.F.D design guidelines and<br>LADOTD's Bridge Design and Evaluation Manual. This project utilized the newly developed "LG" prestressed concrete girders. |  |                    |  |  |   |
| 01/18 - 10/18       I-10 Widening, LA30 - LA22, Ascension Parish, LA (H.009276)         01/18 - 10/18       This project involves the widening of a 5-mile segment of I-10, including two girder bridge structures and one si structure as well as the replacement of the LA 941 bridge structure. Mr. Olivier was responsible for checking the lon reinforcing design of the slab span bridge as well as the reinforcement of the new LA 941 bridge. All design was per with the AASHTO L.R.F.D design guidelines and LADOTD's Bridge Design and Evaluation Manual. |   |   |  |                    |  | e slab span<br>longitudinal<br>s performed |   |

| Firm emp   | Firm employed by: SIGMA CONSULTING GROUP, INC.  |  |   |  |   |   |  |  |
|--|---|--|---|--|---|---|--|--|
| Name   | MIL   | LES B. WILLIAMS, PE  |   |  | Years of relevant experience with this employer   | 32  |  |  |
| Title  | Pres  | ident / Principal-in-C   | harge   |  | Years of relevant experience with other employer(s)   | 8   |  |  |
| Degree(s   | s) / Years /  | Specialization   |   | В  | S / 1983 / Civil Engineering  |   |  |  |
| Active re  | egistration   | number / state / expirati  | on date   | 2  | 3094 / LA / 3-31-2024   |   |  |  |
| Year reg   | istered   | 1988   | Discipline  | С  | ivil  |   |  |  |
| Contract   | role(s) / b   | rief description of respo  | nsibilities   | Р  | rincipal-in-Charge / design reviews   |   |  |  |
| Experies<br>(mm/yy   | nce dates<br>–mm/yy)  | Experience and qualificat<br>Experience dates should   | tions relevant to th cover the time spec  | e propo<br>cified i                                    | osed contract; <i>i.e.</i> , "designed drainage", "designed girders", "den the applicable MPR(s).   | signed inter  | section", etc.   |  |
| 20<br>1988 -   | 004<br>Present  | NEPA and Transpor<br>34+ Years responsit   | tation Decision<br>ble charge for de  | Makin<br>signi   | g Seminar<br>ng DOTD roadway projects   |   |  |  |
| 2014-2015 LA 342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163) DISTRICT 03 PROJECT<br>Mr. Williams was the principal-in-charge for the LA 42: Roundabout @ LA 724 Route LA 42<br>issued as a task order under our Safety Retainer contract with LA DOTD. The project include<br>road design for a new single lane roundabout in Lafayette, LA. |   |  | Parish, LA (H.002163) DISTRICT 03 PROJECT<br>the LA 42: Roundabout @ LA 724 Route LA 42. This pro-<br>iner contract with LA DOTD. The project included full top<br>it in Lafayette, LA. | oject is a s<br>ographic si                            | afety project<br>urveying and   |   |  |  |
| 2012-F   | Present   | I-49 South: US 90 &<br>Mr. Williams is the p<br>Ambassador Caffery<br>drains, open ditch and<br>interchange alternativ   | Ambassador Ca<br>project principal a<br>Parkway in Lafa<br>I subsurface drain<br>e design for futur   | f <b>fery</b><br>and se<br>/ette,<br>nage s<br>re/inte | Interchange, Lafayette Parish, LA (H.002868) DISTRIC<br>erves as a roadway design engineer for a new interch<br>LA. Mr. Williams is responsible for the drainage design<br>systems. He also is responsible for coordinating the fronta<br>rim condition implementation. | T 03 PRO.<br>ange on fu<br>which inclu<br>ge road ext | JECT<br>uture I-49 at<br>udes 6 cross<br>tensions and          |  |
| 10/20 –  | - Present   | I-10: LA 415 to Essen Lane, West and East Baton Rouge Parish, LA (H.004100.5)<br>Mr. Williams is the Road Design Lead Professional for the replacement of I-10, interchange improvements, and surface street<br>improvements through Metro Baton Rouge. His responsibilities include road and drainage design, complex interchange<br>geometric design, maintenance of traffic / sequencing plans, coordinating with the CMAR contractor, design and<br>constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination,<br>proposed right of way and control-of-access limit determination, utility coordination, and public involvement. |   |  |   |   | urface street<br>interchange<br>design and<br>etermination,    |  |
| 2016   | 2016-2020 proposed right of way and control-of-access limit determination, utility coordination, and public involvement.<br>2016-2020 II-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)<br>Mr. Williams served as the Project Design Manager for all design efforts for this urban freeway design-build project. He way responsible for leading and coordinating all disciplines: road design; bridge design; lighting; geotechnical investigation; a traffic control. He also is the responsible engineer for geometric design, roadway construction and traffic control plans. The project included coordinating with the D-B contractor and DOTD, partnering, design and constructability reviews, and constructability reviews, and constructability reviews. |  |   |  |   |   | ject. He was<br>tigation; and<br>ol plans. The<br>ws, and cost |  |

#### Miles Williams (continued)

| Firm em  | Firm employed by: SIGMA CONSULTING GROUP, INC. |   |  |  |  |  |
|--|--|---|--|--|--|--|
| Name   | MILE   | S B. WILLIAMS, PE   | Years of relevant experience with this employer  | 32   |  |  |
| Title  | Presi  | dent / Principal-in-Charge  | Years of relevant experience with other employer(s)  | 8  |  |  |
| 04/18 – PresentBelle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Je<br>LA (H.004791)04/18 – PresentSigma is a design subconsultant providing drainage design for this alternative delivery project. Mr. Willian<br>project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder,<br>and LADOTD. He is also assisting in the design of the drainage system for the roadways throughout the p<br>storm sewer design, drainage plans preparation and generation of quantities. |  |   |  | and Jefferson Parish,<br>Williams is serving as<br>uilder, concessionaire<br>It the project including                                      |  |  |
| 12/14 - 04/19S. Acadian Thruway (Perkins Rd - LA 73),<br>Mr. Williams was the principal-in-charge for<br>of Acadian Thruway. The project includes rep<br>Mr. Williams reviewed proposed safety and s   |  | <b>S. Acadian Thruway (Perkins Rd - LA 73),</b><br>Mr. Williams was the principal-in-charge for<br>of Acadian Thruway. The project includes rep<br>Mr. Williams reviewed proposed safety and s  | <b>East Baton Rouge Parish (H.011261)</b><br>the safety project designed to reduce the number of acc<br>lacing the asphalt overlay and improving the intersection<br>sidewalk improvements as they were implemented in the   | idents along the stretch<br>design at Claycut Road.<br>project.  |  |  |
| 03/13 – 10/20<br>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Pa<br>Mr. Williams was the principal in charge for the roadway design<br>of the two lanes eastbound for 2.7 miles of I-10 and intersect<br>the plan preparation for all roadway design components of the<br>sequencing, level 4 TMP, and cross sections. The project scop<br>intersection improvements to LA352/LA347. Sigma also pri-  |  | I-10: LA 347 to Atchafalaya Floodway Brid<br>Mr. Williams was the principal in charge for th<br>of the two lanes eastbound for 2.7 miles of I<br>the plan preparation for all roadway design co<br>sequencing, level 4 TMP, and cross sections<br>intersection improvements to LA352/LA347<br>engineering proposal reviews, and plan chan | Ige, St. Martin Parish (H.003014) DISTRICT 03 PROJE<br>he roadway design for the three laning of the westbound<br>I-10 and intersection safety improvements near Henders<br>mponents of the project including typical sections, plan pro<br>. The project scope also included two roundabouts at the<br>. Sigma also provided construction support which includes. | CT<br>lanes and rehabilitation<br>on, LA. He supervised<br>ofiles, geometric details,<br>ramp termini points and<br>uded partnering, value |  |  |
| 03/13 – 09/20  |  | I-10: East Jct. I-49 to LA 328, Lafayette & S<br>Mr. Williams was the principal in charge for<br>supervised the preparation of the urban free<br>geometric details, sequencing and cross s<br>superelevation, bridge replacement and wide<br>which included partnering, value engineering   | St. Martin Parishes (H.003003) DISTRICT 03 PROJEC<br>the roadway design for the six laning of 6.7 miles of I-1<br>eway design components of the project including typical<br>sections. The project included median barrier divided<br>ening, and local road pier protection. Sigma also provide<br>proposal reviews, and plan changes.                             | T<br>0 in Lafayette, LA. He<br>sections, plan profiles,<br>d urban interstate with<br>ed construction support                              |  |  |

| Firm er | mployed by     | ARCADIS   |  |   |  |  |  |  |
|---------|----------------|---|--|---|--|--|--|--|
| Name    | Ari Deitch     | n, PE, PTOE, PTP, RSP   | Years of relevant experience with this employer  | 8   |  |  |  |  |
| Title   | Senior Tra     | ansportation Engineer   | Years of relevant experience with other employer(s)  | 2   |  |  |  |  |
| Degree  | e(s) / Years / | Specialization  | BS / 2012 / Biological Engineering, Louisiana State Uni  | versity   |  |  |  |  |
| Active  | registration   | number / state / expiration date  | PE.0041842 / LA / Exp. 03/2024; PTOE #4346 / USA / E<br>PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 1  | PE.0041842 / LA / Exp. 03/2024; PTOE #4346 / USA / Exp. 11/2023<br>PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 12/2024; ATSSA TCT / TCS   |  |  |  |  |
| Year re | egistered      | 2018 Discipline   | Civil Engineering  |   |  |  |  |  |
| Contra  | ct role(s) / b | prief description of responsibilities   | Traffic Engineering / TMP / Signal Design  |   |  |  |  |  |
| Experie | ence dates     | Experience and qualifications rele  | evant to the proposed contract   |   |  |  |  |  |
|         |                | Mr. Deitch is a Transportation En<br>transportation management, and<br>range of transportation projects<br>access management, pedestrian<br>transportation management plan<br>Highway Safety Manual methods<br><b>Deitch has completed the LADOT</b>            | gineer and Project Manager specializing in traffic safety, <u>t</u><br>I <u>conceptual roadway design</u> . Mr. Deitch has experience n<br>for LADOTD, and other DOTs and municipalities across the<br>and bicycle improvements, completed streets, Stage 0 fea<br>is, NEPA studies, <u>signal design</u> , and signing and marking de<br>and is proficient in IHSDM, <u>Synchro</u> , <u>Vistro</u> , <u>VISSIM</u> , <u>SIDR</u><br>D Traffic Engineering Process and Report Training. | raffic engineering and design,<br>nanaging and working on a wide<br>e country, pertaining to safety studies,<br>asibility studies, <u>traffic studies</u> ,<br>esign. He has experience with<br>A, and MicroStation software. <b>Mr.</b>            |  |  |  |  |
| 05/19 - | - Ongoing      | I-20 / I-220 Interchange Imp. and   | BAFB Access TMP and IMR, LADOTD, Bossier Parish, LA. 7   | <i>Fraffic Engineer.</i> Responsible for  |  |  |  |  |
|         |                | development of addendum to Int<br>Plans, and Permanent Signing Pla<br>includes the modification of the e<br>access to Barksdale Air Force Bas   | erchange Modification Report, <i>Transportation Managen</i><br>ns to accommodate the design and construction of the pr<br>existing interchange at I-20 / I-220 with additional ramps a<br>e.   | n <b>ent Plan</b> , Temporary Traffic Control<br>roject. The design-build project<br>and extension of I-220 to provide  |  |  |  |  |
| 08/14 - | - 10/18        | US 71 Corridor Traffic and Safety<br>traffic data collection, warrant s<br>collection effort included automa<br>crash data for the most recent th<br>high-crash locations and over-rep<br>crash reports to determine type a<br>crash rates, and determined pote | Study – Phase 1-3, LADOTD, Rapides Parish, LA. Traffic En-<br>studies, traffic analysis, safety data analysis, and develop<br>ated one-week counts, manual turning movement counts<br>ree years from LADOTD crash database, analysed crash su<br>presentative crashes, determined crash types, frequencies<br>and location of each crash, identified crash "hot-spot" loca<br>ential improvements.   | <i>gineer.</i> Responsible for providing<br><i>ment of conceptual layouts</i> . Data<br>and spot speed studies. Collected<br>ummaries and identified historical<br>s and crash rates, reviewed individual<br>ations, contributing factors for high- |  |  |  |  |
| 04/19 - | - 12/19        | East Baton Rouge Parish Signal De<br>project tasks involving <i>field signa</i><br>intersections identified in East Ba  | etection Upgrades, LADOTD, East Baton Rouge Parish, LA.<br>Il inventory and the creation of updated signal plans and<br>ton Rouge Parish to be upgraded from video detection to  | <i>Traffic Engineer.</i> Technical lead of<br><i>d quantities</i> . The project includes 39<br>magnetometer detection.  |  |  |  |  |
| 04/19 - | - 12/19        | US 90 Traffic Signal Timing Upgra<br>traffic data collection and analy<br>time runs, traffic signal analysis<br>standards.  | des, LADOTD, Lafayette Parish, LA. <i>Traffic Engineer</i> . Techr<br>sis, signal inventory, peak period determination and obse<br>using Synchro 10 software, and development of updated   | nical lead of project tasks involving<br>ervations, warrant analysis, <i>travel</i><br>TSI forms following latest LADOTD  |  |  |  |  |
| 10/15-  | Ongoing        | US 90 Business Signing Upgrades<br>Responsibilities include taking inv  | and TMP, LADOTD, Orleans and Jefferson Parishes, LA. As<br>rentory of existing signs and structures, developing a signi  | ssistant Project Manager.<br>Ing layout plan for the project area in  |  |  |  |  |

|                 | accordance with the latest state and federal policy guidance, developing signing plans through 100% final design stage,                          |
|-----------------|--|
|                 | developing a Transportation Management Plan to be used during construction of the project, and coordinating reviews and                          |
|                 | submittals with LADOTD Traffic Engineering Design Section. The purpose of the project is to replace all existing signs within the                |
|                 | project area, which includes sections of I-10 and US 90 Business in and around New Orleans' Central Business District. This                      |
|                 | requires careful planning in the placement of signs and structures to accommodate the complex roadway network in this area.                      |
|                 | Arcadis completed the <i>design plans and TMP</i> in 2019, and is currently providing engineering support during construction of the             |
|                 | project.   |
| 11/20 – Ongoing | I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Responsible for wide range of traffic engineering tasks                        |
|                 | including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans                          |
|                 | for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment.  |
| 04/16 - 10/19   | I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA.                       |
|                 | Traffic Engineer. Conducted traffic analysis using a calibrated microsimulation model to evaluate the operational performance                    |
|                 | of HSR and HOV lane alternatives. Developed <i>conceptual drawings</i> and <i>construction cost estimates</i> to evaluate the <i>feasibility</i> |
|                 | of proposed alternatives.  |
| 04/16 – Ongoing | Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. Traffic Engineer.                              |
|                 | Responsible for traffic analysis of proposed alternatives using VISSIM software. Played a key role in the development of                         |
|                 | preliminary roadway design drawings, incorporation LADOTD's Complete Streets Policy, and implementing enhanced                                   |
|                 | pedestrian safety measures such as high visibility crosswalks. Work involves completing an Environmental Assessment and                          |
|                 | providing traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange.                    |
|                 | Conducted signal warrant analysis and developed optimized timing plans for proposed improvements.  |
| 01/17 – Ongoing | MTA-TBTA, Tunnel Flood Barrier Systems Design-Build Project, NY Traffic Engineer. Responsible for the development of a                           |
|                 | comprehensive Transportation Management Plan (TMP) and Maintenance and Protection of Traffic (MPT) Plans for the                                 |
|                 | design and construction of permanent and deployable flood protection systems at the Hugh L. Carey Tunnel and the Queens                          |
|                 | Mid-Town Tunnel in New York City, New York. Specific tasks include selection and application of state and federal policy                         |
|                 | guidance to develop temporary traffic control plans and sequencing for various construction phases of the project, coordinating                  |
|                 | with state and local agencies to satisfy MPT notification requirements, and developing procedures for the implementation and                     |
|                 | removal of temporary traffic control devices and equipment.  |
| 02/15 - 11/17   | Intersection Feasibility Study. Evangeline Thwy, Johnston St, & Louisiana Ave, LADOTD, Lafayette Parish, LA. Traffic and Safety                  |
|                 | Analyst. Responsible for review of existing crash data, traffic operations analysis, and development of design alternatives.                     |
|                 | Objective is to develop alternatives for the intersection of Evangeline Thruway (US 167/90) and Johnston Street                                  |
|                 | (US 167) / Louisiana Avenue (LA 94) that will <i>improve safety and mobility</i> . Evangeline Thruway consists of two one-way                    |
|                 | roadways with three lanes in each direction. Three alternatives for each intersection at Johnston Street / Louisiana Avenue were                 |
|                 | developed based on the results traffic and safety analysis.  |

| Firm en  | nployed by   | /   | ARCADIS                 | 5                                  |  |   |  |  |
|----------|--|---|-------------------------|------------------------------------|--|---|--|--|
| Name     | Thomas I   | as Montz, PE, PTOE, PTP   |                         | ТР                                 | Years of relevant experience with this employer                    | 9   |  |  |
| Title    | Principal  | cipal Transportation Engineer   |                         |                                    | Years of relevant experience with other employer(s)                | 3   |  |  |
| Degree   | Degree(s) / Years / Specialization MS / 2011 / Civil Engineering, Louisiana State University   |   |                         |                                    | ty   |   |  |  |
|          | BS / 2009 / Civil Engineering, Louisiana State University  |   |                         |                                    |  |   |  |  |
| Active r | Active registration number / state / expiration date PE.0039128 / LA / Exp. 09/2022; PTOE 4093 / USA / 07/2025; PTP 599 / USA / 03/2023; |   |                         |                                    |  |   |  |  |
| Year rea | gistered   |   | 2014                    | Discipline                         | Civil Engineering  |   |  |  |
| Contrac  | ct role(s) /   | brief o   | lescription of          | responsibilities.                  | Traffic Engineering / TMP / Signal Design                          |   |  |  |
| Experie  | ence dates   | Expe  | erience and q           | ualifications relev                | ant to the proposed contract                                       |   |  |  |
|          |  | Mr.   | Montz is a Pr           | oject Manager an                   | d Principal Transportation Engineer specializing in <u>trans</u>   | portation planning / feasibility,                   |  |  |
|          | -  | mod   | <u>leling</u> , safety, | , and <u>design</u> . He ha        | as over 12 years of experience leading a multitude of pla          | anning and engineering projects                     |  |  |
|          | ~~~  | inclu   | uding Stage O           | feasibility studies                | , safety studies, NEPA studies, <u>traffic signal timing and d</u> | esign, and <u>transportation</u>                    |  |  |
|          |  | mar   | lagement dur            | ring construction.                 | He specializes in <u>traffic analysis</u> and operations including | g <u>signal timing</u> , <u>signal design</u> , ITS |  |  |
|          |  | desi  | gn, <u>HCM ana</u>      | <u>lysis</u> , and <u>microsin</u> | nulation analysis. Mr. Montz has completed LADOTD Tra              | ffic Engineering Process and Report                 |  |  |
|          | A  | Trai  | ning.                   |                                    |  |   |  |  |
| 12/13 -  | - 06/15  | LA 3  | 235 Stage 0 S           | Safety Feasibility S               | tudy, LADOTD, Lafourche Parish, LA. Traffic Engineer. Re           | esponsible for <i>traffic and safety</i>            |  |  |
|          |  | ana   | lysis as part o         | of the Stage 0 feas                | ibility study to develop improvement alternatives with t           | he goal of enhancing mobility and                   |  |  |
|          |  | safe  | ty on LA 323            | b. Main tasks inclu                | ded traffic data collection, signal warrant studies, traj          | fic analysis, safety analysis,                      |  |  |
|          |  | development of <i>conceptual layouts</i> , and public outreach. Intersections found to warrant signalization were also modeled in |                         |                                    |  |   |  |  |
|          |  | unce  | onventional d           | designs including                  | U-turns, J-turns, and RCUTs. Purpose of the project was            | s to address historical safety issues               |  |  |
|          |  | alon  | g the corrido           | r resulting from hi                | gh speeds and conflict points. Assisted with the comple            | tion of Stage U documentation                       |  |  |
| 04/10    | 12/10  |   | aing Prelimir           | hary Scope and Bu                  | aget and Environmental Checklists.                                 | et teche involving traffic data                     |  |  |
| 04/19-   | - 12/19  | 055   | U Traffic Sign          | ial Timing Opgrade                 | es, LADOTD, Larayette Parisn, LA. Technical Lead of proje          | act tasks involving traffic data                    |  |  |
|          |  | COIle   | ection and ar           | iarysis, signai inve               | chrony, peak period determination and observations, we             | formed following latest LADOTD                      |  |  |
|          |  | traj  | darda                   | ing analysis using                 | synchro 10 software, and development of updated TSI                | forms following latest LADUTD                       |  |  |
| 02/15    | _ 09/17  |   | uarus<br>1 Corridor - I | Phaco II Stago O Eo                | asibility Study LADOTD Panidos Parish LA Project May               | ager Rosponsible for the                            |  |  |
| 02/13-   | -00/1/   | Dror  | aration of a            | corridor feasibility               | study for the purpose of <i>enhancing mobility</i> and safety      | uger. Responsible for the                           |  |  |
|          |  | tack  | s included tr           | affic data collection              | study for the purpose of enhancing mobility and safety             | analysis alternative development                    |  |  |
|          |  | and   | nublic / stake          | abolder involveme                  | nt. Completed Stage O documentation including Prelimi              | nary Scope and Budget and                           |  |  |
|          | Environmental Checklists   |   |                         |                                    |  |   |  |  |
| 04/16-   | - 09/18  | New   | Orleans Ped             | estrian Stage O Sa                 | fety Feasibility Study, LADOTD, Orleans Parish LA Traff.           | <i>ic Engineer</i> Responsible for <i>traffic</i>   |  |  |
| 01/10    | data collection volume development traffic analysis and alternative screening. Durpose of the project was to identify safet              |   |                         |                                    |  | of the project was to identify safety               |  |  |
|          | improvement alternatives at 20 high-priority intersections in New Orleans with a history of nedestrian and high-priority issues          |   |                         |                                    |  |   |  |  |
|          |  | Assi  | sted with the           | development of s                   | afety countermeasures for short-term and long-term al              | ternatives. Assisted with the                       |  |  |
|          |  | completion of Stage 0 documentation including Preliminary Scope and Budget and Environmental Checklists                           |                         |                                    |  |   |  |  |
|          |  |   |                         |                                    |  |   |  |  |

| 04/16 - 10/19   | I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA.<br><i>Traffic Engineer.</i> Conducted <i>traffic analysis</i> using a calibrated <i>microsimulation model</i> to evaluate the operational performance<br>of HSR and HOV lane alternatives along I-12 between the I-10/I-12 split and Walker, LA. Developed a range of alternatives and<br>made recommendations based on the alternatives that produced the <i>greatest operational benefits and relieved major</i><br><i>bottlenecks</i> . Presented results to LADOTD project team and administration to inform the decision-making process and<br>subsequent project stages. |
|-----------------|---|
| 12/13 - 05/15   | Joe Sevario / Roddy Road Stage 0 Safety Feasibility Study, LADOTD, Ascension Parish, LA. <i>Traffic Engineer</i> . Evaluation of roundabouts at 10 stop-controlled intersections along Joe Sevario / Roddy Road, from US 61 to LA 42, a length of approximately 7.2 miles. Main tasks included <i>traffic data collection</i> , <i>traffic signal warrants</i> , crash analysis, <i>capacity analysis</i> , safety analysis, review of existing pipelines and other municipal utilities, alternatives analysis, design development, and cost estimates.   |
| 11/12 - 4/13    | LA 594 (Millhaven Rd.) Stage 0 Feasibility Study and Preliminary Design, I-20 Economic Development Corporation, Ouachita Parish, LA. <i>Traffic Engineer</i> . Responsible for <i>traffic data collection and traffic and safety analysis tasks</i> . The project proposed roadway improvements to maintain operations and safety along Millhaven Road while accommodating projected increases in traffic demand and commercial development.  |
| 04/16 – Ongoing | Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. <i>Traffic Engineer</i> .<br>Responsible for assisting with <i>traffic signal timing analysis tasks</i> including volume development / projections, origin-<br>destination study, <i>VISSIM model development and calibration</i> , and noise analysis. Work involves completing an Environmental<br>Assessment and providing traffic engineering services related to improving operations and safety along Range Avenue at the I-<br>12 interchange.   |
| 04/13 – Ongoing | <b>US 11 Environmental Assessment, LADOTD, St. Tammany Parish, LA.</b> <i>Traffic Engineer.</i> Responsible for crash analysis, operating speed tabulations, <i>intersection and corridor analysis, alternative development</i> , and noise modeling for the proposed widening of US 11 between US 190 (Gause Blvd) and I-12 in Slidell, LA. The proposed improvements include replacing a bridge crossing the Norfolk Southern Railroad. This project includes analyzing several <i>innovative alternatives</i> for the proposed corridor, including "superstreets" and J-turn concepts.   |
| 11/20 – Ongoing | I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. <i>Traffic Engineer</i> . Responsible for construction phasing modeling and evaluation to determine the impacts of various <i>construction phasing scenarios and mitigation</i> that will be required to <i>minimize travel delays during construction</i> . Construction phasing scenarios are being modeled using a <i>calibrated mesoscopic model</i> developed by Arcadis, which can estimate the effects of construction activities on the broader roadway network. Model results are being used to inform the <i>Transportation Management Plan</i> for the project.  |

| Firm employed by    | ARCADIS  |   |  |
|---------------------|--|---|--|
| Name Kester H       | ollier, PE, PTOE   | Years of relevant experience with this employer   | 1  |
| Title Principal     | Traffic Engineer   | Years of relevant experience with other employer(s)   | 16   |
| Degree(s) / Years   | / Specialization   | BS / 2004 / Civil Engineering, Louisiana Tech University  | /  |
| Active registration | n number / state / expiration date   | PE.034304 / LA / Exp. 03/2023; PTOE #3928 / USA / Ex  | p. 11/2024   |
| Year registered     | 2009 Discipline  | Civil Engineering   |  |
| Contract role(s) /  | brief description of responsibilities.   | Traffic Engineering / TMP / Signal Design   |  |
| Experience dates    | Experience and qualifications relev  | ant to the proposed contract  |  |
|                     | Mr. Hollier possesses a wide bread<br>engineering, signal timing and design<br>design, and construction managem<br>phases to the design and construct<br>projects. This experience allows hir<br>provide expertise in achieving succ<br>Engineering Process and Report Tra | th of experience in the field of transportation engineering n, <u>roadway design</u> , complete street improvement projectent and inspection. Working on a wide variety of projection phases, has given him the experience to help identifent to understand stakeholders ranging from local public assful solutions for a variety of projects. <b>Mr. Hollier has</b>                             | ng including feasibility studies, <u>traffic</u><br>ects, roadway safety analysis and<br>ts from the planning and conceptual<br>by the needs and requirements for<br>agencies to state DOTs and helps<br>completed LADOTD Traffic  |
| 05/14 – 08/20       | Causeway Blvd. at Earhart Expwy. I<br>of traffic control and construction s<br>for a new interchange at LA 3139 (I<br>interchange traffic sign and <i>traffic</i> ,<br>required for LADOTD approval. Pro<br>for several interchange ramps and                              | nterchange, LADOTD, Jefferson Parish, LA. Traffic/Civil E<br>sequencing, pavement marking layout, quantity analysis<br>Earhart Expwy.) and LA 3046 (Causeway Blvd.) in Jefferso<br>signal timings and design. Identified all necessary design<br>vided geometric layout design, typical section design of<br>underpasses.   | ngineer. Responsible for the design<br>, cost estimates, and quality control<br>on Parish, LA. Provided review for the<br><b>on waivers and design exceptions</b><br><b>and review</b> , and <b>joint layout design</b>            |
| 09/12 – 02/16       | Stage O Feasibility Study and Stage<br>Traffic Engineer. Responsible for th<br>(Behrman Highway) and LA 406 (W<br>Belle Chasse Tunnel and lift bridge<br>that modified roadway geometry a<br>and Grade Study along with the rev  | <b>1 EA for Replacing Belle Chasse Tunnel and Bridge, LAD</b><br>e feasibility study and <i>traffic analysis</i> along LA 23 (Belle<br>oodland Highway) for multiple 6-lane bridge alternative<br>over the Intercoastal Waterway. These alternatives inclu-<br>nd intersection location. Responsible for the review of <i>r</i><br>view of the construction sequencing and <i>traffic mainten</i> | OTD, Plaquemines Parish, LA.<br>Chasse Highway) between LA 428<br>s proposed to replace the existing<br>uded 3%, 4%, and 5% bridge grades<br>oadway design and costs for the Line<br>bance of the constructability review.         |
| 11/20 – Ongoing     | I-10 CMAR, LADOTD, East Baton Ro<br>development of permanent signing<br><i>managemnet plans</i> for the widenin<br>Extensive historical crash and safet<br>project is maintaining traffic during<br><i>calibrated mesoscopic model</i> to de<br><i>delay.</i>              | <b>Puge Parish, LA. Project Manager</b> . Responsible for traffic<br>g plans, <i>traffic signal plans</i> , interchange modification reing of I-10 from LA 415 to Essen Lane and improvements<br>y analysis is being performed in support of the IMR and<br>the construction of new bridge structures. Multiple scent<br>etermine the impacts during construction and mitigation                  | engineering tasks including<br>ports, and <i>transportation</i><br>to interchanges along this segment.<br>TMP. One critical component of the<br>marios are being evaluated using a<br>ns that will be necessary to <i>minimize</i> |

| 06/13-04/14   | US 190 Stage 0 Feasibility Study, LADOTD, St. Tammany, LA. Traffic Engineer. Responsible for roundabout geometric design and                 |
|---------------|--|
|               | pedestrian and bike path design along the US 190 corridor in the City of Slidell and St. Tammany Parish to improve safety for                |
|               | motorized and non-motorized roadway users.   |
| 11/17 - 07/20 | LA 466 (5 <sup>th</sup> Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA. Project Manager / Traffic Engineer.        |
|               | Responsible for the <i>traffic study and impacts</i> for the proposed complete streets improvements along the LA 466 corridor                |
|               | between LA 23 and Richard St. in Gretna, Louisiana. Tasks included data collection along the corridor and at designated                      |
|               | intersections, safety and crash analysis along the corridor, trip generation/land use and performing existing traffic analysis and           |
|               | <i>future traffic analysis</i> for proposed final alternative. The traffic study was prepared to follow the LADOTD Traffic Engineering       |
|               | Process and Report Guidelines. The project also included a stand-alone pedestrian study along the corridor at designated                     |
|               | intersection and the design of accessible pedestrian signals at signalized intersections.  |
| 12/17 – 11/19 | Causeway Boulevard Widening Traffic Study, Jefferson Parish, LA. Project Manager / Traffic Engineer. Responsible for the traffic             |
|               | and safety study for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in                            |
|               | Jefferson Parish, LA. Tasks included data collection, traffic volume redistribution, left-turn placement and turn bay storage                |
|               | length, and existing traffic analysis and future traffic analysis of a preferred alternative.  |
| 10/18-01/19   | LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. Traffic Engineer. Responsible for the                        |
|               | development of three alternatives along Northshore Boulevard between I-12 and US 190 in Slidell, LA. Managed the data                        |
|               | collection process and peak period observations to determine <i>existing traffic patterns</i> , as well as the safety analysis along the     |
|               | corridor. Developed three alternatives that used a combination of <i>traffic signal retiming</i> , J-turns, and roundabouts to provide       |
|               | better access management along Northshore Boulevard as well as <i>improve traffic flow</i> in the corridor for current and proposed          |
|               | future conditions with consideration given to proposed future developments using trip generation and land use analysis.                      |
| 01/10-04/11,  | Stumberg Lane Extension, City of Baton Rouge Green Light Plan, East Baton Rouge Parish, LA. Traffic Engineer. Responsible for                |
| 07/13 - 01/14 | the <i>design of new traffic signals</i> at US 61 (Airline Highway) and LA 73 (Jefferson Highway) for the extension of Stumberg Lane         |
|               | in Baton Rouge, LA. Also responsible for the <i>design and layout of the fiber optic interconnect</i> along the proposed extension.          |
| 05/09 - 07/13 | LA 23 Widening (Lapalco Blvd. – Engineers Rd.), LADOTD, Jefferson and Plaquemines Parishes, LA. Traffic/Civil Engineer.                      |
|               | Responsible for the <i>roadway design and geometrics</i> for the widening of LA 23 in Jefferson and Plaquemines Parishes between             |
|               | Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed <i>traffic analysis</i> for the <i>traffic signal timing</i> and required turn |
|               | bay lengths at intersections. Developed <i>traffic signing plans</i> , pavement marking layouts and temporary traffic control plans.         |
| 10/10 - 7/15  | Barriere Road Feasibility Study/Traffic Study, US Department of Defense, Plaquemines Parish, LA. Civil/Traffic Engineer.                     |
|               | Responsible for the <i>geometric layout and design</i> of the realignment alternatives of Barriere Rd. between LA 23 to the US Naval         |
|               | Air Station. Developed and reviewed traffic analysis for arrival and departure patterns for the South US Naval Air Station                   |
|               | entrance gates.  |

| Firm employed by   |   | 5  |  |  |  |  |
|--|---|--|--|--|--|--|
| Name Jose L. Rodriguez, PE   |   |  | Years of relevant experience with this employer  | 1  |  |  |
| Title Senior C   | ivil Engineer   |  | Years of relevant experience with other employer(s)  | 24   |  |  |
| Degree(s) / Years / Specialization                                       |   |  | BS / 1992 / Civil Engineering, University of New Orlean  | S  |  |  |
| Active registration  | n number / state / e  | expiration date  | PE.0030492 / LA / Exp. 03/2023   |  |  |  |
| Year registered  | 2003  | Discipline   | Civil Engineering  |  |  |  |
| Contract role(s) / brief description of responsibilities. Roadway Design |   |  |  |  |  |  |
| Experience dates   | Experience and q  | ualifications releva   | ant to the proposed contract   |  |  |  |
|  | Mr. Rodriguez ha<br>roadway design, <u>l</u><br>estimating, and p   | s more than <u>25 ye</u><br>bridge design, pro<br>roject implementa  | <u>ars of experience</u> with roles of progressive responsibility<br>ject management, hydraulic analysis, utility coordination<br>ation for various clients in Louisiana, Texas, Georgia, and  | y as a civil engineer performing<br>n, construction supervision,<br>d North Carolina. Jose has worked in   |  |  |
|  | close relationship<br>Transportation (L<br>Bentley Inroads,<br>Louisiana Board,   | with the Federal<br>ADOTD), local par<br>Autodesk Civil 3d,<br>becoming preside  | Highway Administration (FHWA), U.S. Army Corps of En<br>ish governments, and regional planning commissions. H<br>and Leap Bridge for Concrete Bridge Design. Served on<br>nt of the Louisiana Chapter in 2010 and remains active i   | gineers, Louisiana Department of<br>e has extensive experience with<br>the American Concrete Institute (ACI)<br>n the organization.  |  |  |
| 05/12 – 12/15  | D5/12 – 12/15 Earhart Boulevard Causeway Interchange, LADOTD, New Orleans, LA. Project Designer. Responsible for the geometric design<br>and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard-Causeway Interchange<br>purpose was to assist in traffic congestion relief for the east-west flow in traffic for the New Orleans Metro Area. It consisted of<br>the development of roadway and bridge ramps for the creation of an elevated signal-controlled interchange. The estimated<br>construction cost for this project was approximately fifty-nine million dollars. Responsible for the development of all horizonta<br>and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage<br>design, utility conflict resolution and cost estimating for the project. Bentley InRoads was used for the development of the<br>roadway plans for this project. |  |  |  |  |  |
| 02/07 – 10/09  | John James Audu<br>geometric horizo<br>longest cable-stay<br>control for all brid   | <b>bon Bridge Approa</b><br>Intal and vertical of<br>yed bridge in the V<br>dge approaches ar                                      | ach (Design-Build [DB]), LADOTD, New Roads, LA. Projec<br>alignment for five approach bridges to the John James<br>Vestern Hemisphere consisting of 1,583' main span. Jos<br>ad the design of all precast concrete girders for the proje   | <i>t Designer.</i> Responsible for the<br>Audubon Cable Stay Bridge. The<br>e was also in charge of the quality<br>ect.  |  |  |
| 01/06 – 09/09  | New Orleans Sub<br>LA. Project Design<br>the Federal Highv<br>engineering worl<br>was responsible f<br>with DOTD and Fl   | merged Roadway<br>her and Quality Co<br>vay Administratior<br><b>k for the repair of</b><br>for conducting qua<br>HWA design stand | Program Management, LADOTD / New Orleans Regiona<br><i>ntrol Reviewer</i> . For this multi-million dollar program ma<br>n (FHWA), helped <i>develop design guidelines and proces</i><br><i>damaged roadways</i> by Hurricane Katrina in the City of<br>lity control reviews on roadway plans prepared by othe<br>ards. | I Planning Commission, New Orleans,<br>nagement team for the DOTD and<br>sses for the standardization of<br>New Orleans and other parishes. He<br>r engineering firms for compliance |  |  |
| 02/10 - 06/11  | I-10 from Veterar<br>widening 1.2 mile<br>accommodate the   | ns to Clearview, LA<br>es of I-10 from thre<br>e <b>new roadway w</b>  | <b>DOTD, Metairie, LA.</b> <i>Project Designer</i> . Responsible for <b>r</b><br>ee lanes to five lanes in each direction. The project also<br><b>idening</b> . Jose was also responsible for the <b>alignment ar</b>  | oadway plan preparation for<br>included bridge work to<br>nd design of concrete sound walls  |  |  |

|               | along the corridor. He helped implement an innovative two-sided concrete stamp process for the noise wall precast concrete panels.   |
|---------------|--|
| 07/09 - 07/15 | Peters Road Expansion, Phases I, II and III, LADOTD, Plaquemines, LA. <i>Project Designer</i> . Responsible for the <i>geometric design</i> , <i>plan preparation and wetland delineation</i> of Peters Road Phases I, II and III. The projects consisted of a new roadway, elevated crossing over the Intracoastal Waterway, approach roadways in Jefferson and Plaquemines Parishes to tie Peters Road to Louisiana 23 near Barrier Road. The projects were prepared in coordination with Plaquemines Parish, DOTD, and the U.S. Army Corps of Engineers.  |
| 06/04 – 01/11 | <ul> <li>Causeway Boulevard Interchange Improvements Phases I and II, LADOTD, Metairie, LA. <i>Project Designer</i>. This project which consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at-grade and elevated ramps to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the <i>design of new precast concrete girders and the roadway plan preparation</i> for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations.</li> </ul>   |
| 01/08 - 05/08 | Stage 0 Feasibility Study I-12 to Bush Corridor Study Phase III, LADOTD, St. Tammany Parish (STP), LA. Project Designer.         Responsible for evaluating environmental issues and developing design alternatives in accordance with the National Environmental Policy Act (NEPA) for transportation improvements.   |
| 01/20 – 05/20 | NC73 Highway Widening, North Carolina DOT, Mecklenburg County, North Carolina. <i>Project Engineer</i> . Responsible for the<br>Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 Highway, was<br>widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project<br>presented many challenges for the Temporary Traffic Management Plan's preparation due to the high traffic volumes on NC 73,<br>time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To<br><i>mitigate traffic disruption and enhance roadway safety</i> , assisted in <i>preparing the Transportation Operation Plans and</i><br><i>sequence of construction</i> for the project. All design work was performed following NCDOT and the latest MUTCD standards. |
| 12/15 - 01/16 | Magnolia Ridge Levee Project, City of New Orleans, St. Charles Parish, LA. <i>Quality Control (QC)</i> . QC review and <i>plan preparation</i> for the Magnolia Ridge Levee project for St. Charles Parish.  |
| 10/17 - 03/18 | Traffic Turn Lanes on Highway LA 3127, Yuhuang Chemical Inc., St. James, LA. <i>Quality Control (QC)</i> . Review for the <i>design of two turn lanes</i> into the Yuhuang Chemical Methanol plant in St. James Louisiana. During construction, Jose provided the owner with construction design services for the duration of the construction phase.  |
| 03/19 - 05/20 | <b>Eastern Federal Lands Highway Division (EFLHD), Puerto Rico.</b> <i>Assessment Roadway Lead.</i> Responsible for the review, report preparation, and coordination for the repairs of over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project stayed within the client's guidance and strict schedules.   |
| 04/18 - 9/20  | <b>Texas High-Speed Rail, Texas Central Railway, Dallas to Houston, Texas.</b> <i>Project Designer.</i> Assisted with establishing flood elevations for the alignment of over 240 miles of rail tracts. Also responsible for the realignment of at-grade roadways impacted by the High-Speed rail.   |

| Firm employed by  | ARCADIS   |  |  |  |  |
|---|---|--|--|--|--|
| Name Gabriel Aria   | is, PE  | Years of relevant experience with this employer  | <1   |  |  |
| Title Roadway Er  | ngineer   | Years of relevant experience with other employer(s)  | 8  |  |  |
| Degree(s) / Years / S   | pecialization   | BS / 2013 / Civil Engineering, Auburn University   |  |  |  |
| Active registration n   | umber / state / expiration date   | Professional Engineer – PE. 0042599 / LA / Exp. 09/20  | 22   |  |  |
| Year registered   | 2018 Discipline   | Civil Engineer   |  |  |  |
| Contract role(s) / bri  | ef description of responsibilities  | Roadway Design   |  |  |  |
| Experience dates  | Experience and qualifications   | elevant to the proposed contract   |  |  |  |
| Mr. Arias has more than eight years' experience performing complex geometric design on roadway including H&V alignmy hydraulic design CDP's and open ditches, turn lane design, striping/signage, structural design analysis and QC, traffic management plans, and roadway plan production. |   |  |  |  |  |
| 06/16 – 02/17   | D2/17 LA 435 to LA 40/LA 41, LADOTD, St. Tammany Parish, LA. <i>Project Engineer</i> . The project calls for the construction of a new four-lane highway connecting I-12 to Bush, Louisiana, in St. Tammany Parish. The new roadway is approximately 19.8 miles length and begins at LA 434, north of the existing LA 434 interchange with I-12, and traverses in a northeasterly direction until encountering an abandoned rail corridor. It then follows the rail corridor terminating at the LA 21/LA 41 intersections near Bush, Louisiana. Assisted with <i>roadway geometric design</i> including H&V alignment, hydraulic design for storm drains CDP's and open ditches, structural design analysis and QC, <i>Traffic management plans and roadway plan production</i> for t |  |  |  |  |
| 07/13 - 06/16   | Bayou Mercier Road/Berard C<br>surveying and assisted with bi<br>system bridge timber structur  | anal Bayou, LADOTD, St. Martin Parish, LA. <i>Project Engine</i><br><i>idge design</i> , hydraulic analysis and <i>roadway design</i> for the with a quad-beam concrete structure. | er. Performed topographic field ne replacement of the existing off-  |  |  |
| 07/13 – 02/17   | Derrick Road Bridge, LADOTD,<br>bridge design, hydraulic analy<br>with a slab span, concrete stru   | Iberville Parish, LA. <i>Project Engineer</i> . Performed topograpsis and <i>roadway design</i> for the replacement of the existing the true.                                      | bhic field surveying and assisted with<br>ng off-system bridge timber structure                                      |  |  |
| 07/13 – 02/17   | Jude & Placide Road Bridges,<br>assisted with <i>bridge design</i> , h<br>timber structures with slab sp  | ADOTD, Vermilion Parish, LA. <i>Project Engineer</i> . Performed<br>ydraulic analysis and <i>roadway design</i> for the replacemen<br>an, concrete structures.                     | d topographic field surveying and tof the existing off-system bridges  |  |  |
| 07/13 – 10/16   | <b>City of Thibodaux Overlay Pro</b><br>crack sealing, resurfacing and<br>goal was to prolong the life of   | ects, LADOTD, Lafourche Parish, LA. Project Engineer. Pro<br>complete pavement replacement for four separate location<br>the existing pavements by preventing future deterioration | ject required chip sealing, joint &<br>ons in the city of Thibodaux, LA. The<br>n and/or rehabilitating the existing |  |  |

|               | pavements. Assisted with roadway geometric design including horizontal alignments, selection of treatment type for                          |
|---------------|---|
|               | pavements, hydraulic design for storm drains, CDP's and open ditches and roadway plan production.   |
| 09/13 - 02/17 | Pecan Island Road Bridge Over The Chenal, LADOTD, Pointe Coupee Parish, LA. Project Engineer. Performed topographic field                   |
|               | surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-                   |
|               | system bridge timber structure with a customized slab span, concrete structure.   |
| 07/13-02/17   | Gracie Lane Bridge, LADOTD, Iberville Parish, LA. Project Engineer. Performed topographic field surveying and assisted with                 |
|               | bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure                 |
|               | with a slab span, concrete structure.   |
| 04/14 - 02/17 | Lajaunie Rd/Lateral 1 Bayou St. LADOTD, Clair, Lafayette Parish, LA. Project Engineer. Performed topographic field surveying                |
|               | and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge                |
|               | timber structure with a slab span, concrete structure.  |
| 11/15 – 02/17 | Babin Rd./Bayou Narcisse, LADOTD, Ascension Parish, LA. Project Engineer. Performed topographic field surveying and                         |
|               | assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge                    |
|               | timber structure with a slab span, concrete structure.  |
| 10/18 - 11/19 | I-10 to Loyola Dr. Interchange, Jefferson Parish, LA. Project Engineer. Proposal effort for adapting the interchange at Loyola              |
|               | Drive to handle traffic flowing to and from the new passenger terminal at Louis Armstrong International Airport. Assisted                   |
|               | with <i>roadway geometric design</i> , QC, and <i>Plan production</i> for proposal.   |
| 06/18 - 10/19 | Mid-Barataria Diversion Design, Plaquemines Parish, LA. Project Engineer. Planning, engineering and design services for the                 |
|               | creation of the Mid-Barataria sediment diversion basin to strategically reintroduce sediment and freshwater inputs into the                 |
|               | Barataria Basin. Assisted with <i>detour roadway alignment creation/selection, TTC planning</i> , and <i>roadway plan preparation</i> .     |
| 09/13 - 02/17 | West 15th Avenue/Mile Branch, City of Covington, St. Tammany Parish, LA. Project Engineer. Performed topographic field                      |
|               | surveying and assisted with <i>bridge design</i> , hydraulic analysis, and <i>roadway design</i> for the replacement of the existing bridge |
|               | timber structure with a customized slab span, concrete structure. Included an integral pedestrian/bicycle path and custom                   |
|               | barrier to separate pedestrians and vehicles.   |
| 02/18-04/18   | US 377 Cresson Relief Route, TXDOT, TX. Project Engineer. TXDOT will construct a three-mile relief route west of the city of                |
|               | Cresson. The relief route will be a new four-lane divided highway on US 377 beginning one mile south of the intersection of                 |
|               | US 377 and SH 171 and ending one mile north of the same intersection. Assisted with <i>plan creation including H&amp;V</i>                  |
|               | alignment review, TTC plans, construction quantity estimation and roadway plan production for the realigned roadway.                        |
| 06/17 –10/17  | Hwy 270 Widening Connecting Arkansas Program (CAP), CA0607, Garland County, AR. Project Engineer. Contracted by AHTD,                       |
|               | as part of their Connecting Arkansas Program (CAP), to assist with the design of widening approximately three miles of Hwy                  |
|               | 270 in Garland County. The proposed roadway is 4 lanes with a painted median from Hwy 270 to Black Snake Road, then 5                       |
|               | lanes curb & gutter from Black Snake Road to Hwy 227. Responsibilities include the drainage design and plan production,                     |
|               | wetland delineation and <i>maintenance of traffic plans</i> . Tasks include preliminary site visits, developing hydraulic and               |
|               | hydrologic models for the pipes, submittal of Hydraulic Report, drainage ditch design, <i>maintenance of traffic plan</i> submittals        |
|               | and wetlands report.  |

#### **16. Staff Experience:**

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

| Firm em                               | ployed b   | y Civil Design &  | Construction, I   | Inc. (  | CD&C)   |                  |
|---------------------------------------|------------|---|---|---|---|------------------|
| Name                                  | Karla      | Karla E. Weston, PE   |   |   | Years of relevant experience with this employer   | 17               |
| Title                                 | Presi      | dent  |   |   | Years of relevant experience with other employer(s)   | 6                |
| Degree(                               | s) / Year  | s / Specialization  |   | Ba  | chelor of Science / 1999 / Civil Engineering  |                  |
| Active r                              | egistratio | on number / state / exp   | piration date   | 31  | 010 / Louisiana / March 31, 2024  |                  |
| Year<br>registere                     | ed         | 2004 Discipline Civil Engineer  |   |   |   |                  |
| Contract                              | t role(s)  | / brief description of  |   | Mı  | rs. Weston will oversee the firms' role as a sub-consultant and                               | d make sure      |
| responsi                              | bilities   | _   |   | the   | e work is completed to LADOTD standards.  |                  |
| Experier                              | nce        | Experience and q  | ualifications rel   | levant  | to the proposed contract; i.e., "designed drainage", "design                                  | ed girders",     |
| dates (m                              | nm/yy–     | "designed intersed  | ction", etc. Exp  | perien  | ce dates should cover the time specified in the applicable MP                                 | $^{\prime}R(s).$ |
| mm/yy)                                |            |   |   |   |   |                  |
| 02/16-09                              | /19        | H.003047 Pecue L  | ane/I-10 Interch  | nange,  | Baton Rouge, LA: Mrs. Weston's served as Principal-in-Charge                                  | for the          |
|                                       |            | firm's role as a sub  | -consult for the e  | enginee   | ering design services of the West Bound on Ramp to I-10, the Wes                              | t Bound Off      |
|                                       |            | Ramp from I-10, th  | e extension to Ri   | ieger F   | Road and Pecue Lane Extension. She has worked to oversee the fin                              | ms design,       |
| 10/10 1                               | 0.410      | coordinate with the   | prime consultan   | t and g   | government agencies.  |                  |
| 12/13 - 10/19 <b><u>H.02960</u></b>   |            | <u>H.02960 Gramerc</u>  | <u>y Bridge, St. Jai</u>  | <u>mes Pa</u>   | arish, LA: Mrs. Weston served as Principal-in-Charge for the firm                             | 's role as a     |
|                                       |            | subconsultant for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical |   |   |   |                  |
| 02/14 0                               | 2/15       |   | ign Duild L of  | une pro   | Jeci<br>I.A. Mrs. Wasten provided OA/OC review for the Ready Design                           | m Dlang on       |
| 02/14 - 0                             | 2/13       | this Design Build E   | Project for part of   | the I   | <u>LA.</u> Mis. weston provided QA/QC review for the Roadway Designation<br>49 South Corridor | gii Fians on     |
| 05/13 - 0                             | )5/14      | H 009288 5 L A 1 I  | Railroad Bridge   | at DC   | W WBR Parish I.A: Mrs. Weston served as Principal-in-Charg                                    | e for the        |
| 1.002200.5 LA T Kall out Druge        |            | engineering design elements of the plans including Hydraulic Analysis and Design                                |   |   |   |                  |
| Typical Sections and Graphical Gr     |            | nd Graphical Gra  | rades for the project. She has worked to oversee the firms design coordinate with the |   |   |                  |
| prime consultant and government age   |            |   | d government ag   | gencies.  |   |                  |
| 01/06 - 1                             | 12/12      | EBR City/parish I   | Project No. 06-C  | S-HC  | -0018, Fairchild-Badley Roadway, EBR Parish, LA: Mrs. West                                    | on served as     |
|                                       |            | Principal in Charge   | for this project t  | that was approx. 1.25 miles in length along Fairchild-Badley Road and also included     |   |                  |
|                                       |            | approximately 600   | linear feet of Eln  | m Grove Garden Dr. CD&C designed the upgrade to the existing narrow roadway to          |   |                  |
|                                       |            | a typical section of  | 2-11' lands with  | h a 2' barrier curb and gutter, and a 6' adjacent sidewalk. This included the design of |   |                  |
| a new sub-surface drainage system thr |            |   | lrainage system t   | hroug   | hout the length of the project as well.   |                  |

| 03/12-07/12   | H.009104.5 - Sunshine Bridge Phase 2: Ms. Weston served as Project Manager and Engineer for CD&C's portion of               |  |  |  |  |  |
|---------------|---|--|--|--|--|--|
|               | this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C               |  |  |  |  |  |
|               | provided the Traffic Control design plans including detour maps of local road network for the repairs and widening to       |  |  |  |  |  |
|               | the Sunshine Bridge.  |  |  |  |  |  |
| 05/11 - 04/12 | Red River - Jackson Street Bridge, Alexandria, LA: Ms. Weston served as Project Manager and Engineer for                    |  |  |  |  |  |
|               | CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the           |  |  |  |  |  |
|               | project. CD&C provided the Traffic Control design plans including detour maps of local road network for the                 |  |  |  |  |  |
|               | replacement of the Jackson Street Bridge over the Red River.  |  |  |  |  |  |
| 06/12 - 10/12 | H.009986 – Paths 2 Progress. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes – Group                  |  |  |  |  |  |
|               | 33 Ms. Weston served as the Principal-in-charge/Project Manager for this roadway rehabilitation project of roads in         |  |  |  |  |  |
|               | Jefferson Parish. This included field reconnaissance to determine severity of inundated roadways due to Hurricane           |  |  |  |  |  |
|               | Katrina, preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc. |  |  |  |  |  |
| 12/11 - 4/12  | H.005902.5 - Consulting Services for the Permanent Repair to Federal Aid Eligible Roads as a Result of Damage               |  |  |  |  |  |
|               | <u>due to Hurricane Katrina in 2005. Jefferson, Orleans, Plaquemines, St. Bernard and St. Tammany Parishes –</u>            |  |  |  |  |  |
|               | Group 29 Ms. Weston served as the Principal-in-charge/Project Manager for this project which included survey, field         |  |  |  |  |  |
|               | reconnaissance to determine severity of inundated roadways due to Hurricane Katrina in the City of New Orleans,             |  |  |  |  |  |
|               | preparation and detailing of roadway rehabilitation plans, typical sections, providing quantity calculations, etc.          |  |  |  |  |  |
| 01/06 - 07/06 | Picardy Avenue Extension-City/Parish of East Baton Rouge: Mrs. Weston served as Principal-in-Charge for this                |  |  |  |  |  |
|               | extension of Picardy Avenue, connecting Bluebonnet Blvd. with I-10 West. Duties included project layout and design as       |  |  |  |  |  |
|               | wells as subsurface drainage design for approximately <sup>1</sup> / <sub>2</sub> mile.                                     |  |  |  |  |  |

| _ Firm employed b   | oy Civil Design &  | Construction, I   | nc. (CD&C)  |   |  |  |  |
|---|--|---|---|---|--|--|--|
| Name Ralph Bu   | irgess, PLS  |   | Years of relevant experience with this employer   | 11  |  |  |  |
| Title Principal   | Land Surveyor  |   | Years of relevant experience with other employer(s)   | 12  |  |  |  |
| Degree(s) / Years   | / Specialization   |   | BS / 2004 / Industrial Design & Supervision, Southeas   | stern LA University   |  |  |  |
| Active registration                                       | n number / state / exp   | iration date  | 5040 / Louisiana – September 30, 2022   |   |  |  |  |
| Year registered   | 2010   | Discipline  | Land Surveyor   |   |  |  |  |
| Contract role(s) / brief description of responsibilities. |  |   | Mr. Burgess serve as the Survey Manager for this proj<br>project progress stays on schedule, aide in both crew of<br>and provide final QC on the firms' deliverable to the H<br>extensive background in providing topographic survey<br>Location and Survey policies and procedures. He has<br>means and methods of collecting data as well as those<br>Scanning. | ject. He will work to oversee the<br>coordination and office production,<br>Prime Consultant. Mr. Burgess has an<br>ys for LADOTD in accordance with<br>overseen projects utilizing traditional<br>that include the use of 3D Terrestrial |  |  |  |
| Experience dates<br>(mm/yy-mm/yy)                         | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection" etc. Experience dates should cover the time 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. 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  | 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 |   |   |  |  |  |
| 0.1./1.0.0.1./0.0   | the site and field veri  | fications of that d   | ata. The topographic data for this project was collected trad   | itionally.  |  |  |  |
| 01/18-01/20   | <b>H.004100 I-10:</b> LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA: Burgess was the surveying Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement |   |   |   |  |  |  |
| 7/17-12/18  | H.010960.5-2, LA 30  | ) Roundabout at   | t Tanger I-10, Ascension Parish, LA: Mr. Burgess served a   | as Survey Manager for the project. Duties   |  |  |  |
|   | included meeting with  | h LADOTD & Ca   | ardno, 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   |   |   |   |  |  |  |
| 01/16-08/16   | H.005733.5 US 190  | Superstreet, St   | <b>Tammany Parish.</b> LA: Mr. Burgess served as Survey N   | Manager for the project. Duties included  |  |  |  |
|   | complete topographic   | survey and drain  | hage map for this project including all utility coordination. T   | The survey began at the intersection of US  |  |  |  |
|   | 190 and Holiday Squ  | are Frontage Roa  | d. From this point, the survey proceeded in a northerly direct  | ction along US 190 for approximately 2.9  |  |  |  |
|   | miles to a point that i  | s 700 feet South  | of Intersection of US 190 and E. Boston St. in Covington, L   | A. This project also included work in the   |  |  |  |
|   | Abita River and utiliz   | zed 3D Terrestria   | Scanning for the main route.  |   |  |  |  |
| 10/15-12/18  | H.003184.5 I-10 Texas State Line - East of Coone Gully, Calcasieu Parish, LA: Mr. Burgess served as Survey Manager for the project.  |
|--------------|--|
|              | Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, coordination of utility companies   |
|              | on the project, review and verification of drainage crossing I10, merging of existing topographic survey of bridges from LADOTD and final  |
|              | review of all survey data for submittals   |
| 08/16-12/17  | H.011235 I-49 South at Verot School Road, Lafayette, LA: Mr. Burgess served as the Survey Manager for the project. Duties included   |
|              | meeting with LADOTD, and all consultants on the team, coordination of both traditional crews and 3D terrestrial scanning crew, coordination  |
|              | of survey crews with Cardno, Inc, utility locations on the project, met and review right of entry with landowners for project, review of drainage  |
|              | map, merging of existing topographic survey of the 1-49 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 LADOID 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 LADOID Records and  |
| 04/17 07/17  | EBR City Parish regarding the research of all drainage structures that enter and leave the project area.   |
| 04/1/-0//1/  | H.010006.5-3 LA 58 Petit Callou Bridge Renabilitation (Saran 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 Clea Road Roundahout St Tammany Parish I A: Mr. Burgess served as the project manager for the project CD&C was  |
| 05/14-00/14  | responsible for the topographic survey that began approximately 2400 ft NW of intersection of L-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: 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.  |
| 10/14-12/14  | H.011088.5 West Prien Lake, Lake Charles, LA: Mr. Burgess served as the Survey Manager for this 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. Burgess managed and supervised all field work, utility coordination, and review of existing survey data  |
|              | for final topographic survey submittal. CD&C also produced ROW maps for the project. Mr. Burgess's duties for this portion also included   |
|              | title reports, review of property surveys and final submittal of final existing right of way plans.  |
|              |  |
|              |  |
|              |  |
|              |  |

| Firm employed b      | y Civil Design &         | & Construction,       | Inc. (CD&C)  |   |  |  |  |
|----------------------|--------------------------|-----------------------|--|---|--|--|--|
| Name Chris Ba        | lard, PLS                |                       | Years of relevant experience with this employer  | 6   |  |  |  |
| Title Survey P       | roject Manager           |                       | Years of relevant experience with other employer(s)  | 19  |  |  |  |
| Degree(s) / Years    | / Specialization         |                       | BS / 2004 / Biological Science / Southeastern LA Uni   | versity                                     |  |  |  |
| Active registration  | number / state / exp     | iration date          | 5033 / Louisiana – September 30, 2022  |   |  |  |  |
| Year registered      | 2010                     | Discipline            | Land Surveyor  |   |  |  |  |
| Contract role(s) / 1 | prief description of re  | esponsibilities.      | Mr. Ballard serve as the Survey Project Manager for the                                      | his project. He will work to oversee        |  |  |  |
|                      | Ĩ                        |                       | the project progress stays on schedule, aide in both cre                                     | ew coordination and office                  |  |  |  |
|                      |                          |                       | production, and provide final QC on the firms' deliver                                       | able to the Prime Consultant. Mr.           |  |  |  |
|                      |                          |                       | Burgess has an extensive background in providing top   | ographic surveys for LADOTD in              |  |  |  |
|                      |                          |                       | accordance with Location and Survey policies and pro   | ocedures. He has overseen projects          |  |  |  |
|                      |                          |                       | utilizing traditional means and methods of collecting data as well as those that include the |   |  |  |  |
|                      |                          |                       | use of 3D Terrestrial Scanning.  |   |  |  |  |
| Experience dates     | Experience and qu        | alifications rele     | evant to the proposed contract; i.e., "designed drain  | nage", "designed girders", "designed        |  |  |  |
| (mm/yy–mm/yy)        | intersection", etc.      | Experience dates      | s should cover the time specified in the applicable MPR                                      | (s).  |  |  |  |
| 09/01/18-01/20       | <u>H.004100 I-10: LA</u> | 415 to Essen Lan      | e 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-consu      | ltant on this project is responsible for topographic surveying                               | the portion of I-10 in West Baton Rouge     |  |  |  |
|                      | Parish beginning at t    | he start of the pro   | ject limits to a point just before the approach of the I-10 Brid                             | dge and the limits of the project along LA  |  |  |  |
|                      | 415 including work of    | on Tributaries of the | the Intercoastal Canal. This work included using 3D Scanning                                 | ng for the bridge at I-10 bridge (a) LA 415 |  |  |  |
| 04/17 07/17          |                          | Petit Caillou Br      | idge Rehabilitation (Sarah Bridge) Terrebonne Parish I                                       | A: Mr. Ballard served as the firms Survey   |  |  |  |
| 04/1/-0//1/          | Project Manager on t     | his project which     | included a complete topographic survey utility coordination                                  | channel cross sections and the scanning     |  |  |  |
|                      | of the existing vertic   | al lift bridge for t  | he design of its repairs/replacement. Project included data co                               | ollection of the topography via traditional |  |  |  |
|                      | means and methods a      | along with 3D terr    | estrial scanning and hydrographic surveying.   | ······································      |  |  |  |
| 02/19-09/19          | Bridge Replacemen        | ts in East Felicia    | na Parish, Rural East Feliciana Parish, LA: Mr. Ballard i                                    | s serving Survey Project Manager for this   |  |  |  |
|                      | project for East Felic   | iana Parish Police    | e Jury. It includes the replacement of 2 bridges which were                                  | damaged from flooding and the repairs to    |  |  |  |
|                      | many rural roadways      | throughout the pa     | arish. These projects are being funded thru FEMA and all do                                  | ocumentation has to be in accordance with   |  |  |  |
|                      | FEMA's policies and      | l 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, <b>3D Terrestrial Scanning</b> 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 <b>3D Terrestrial Scanning</b> .  |
| 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 <b>processing</b> of data,   |
|               | review of field notes and weeklies, & performing final punch list. This project also included work in the Abita River utilized <b>3D Terrestrial</b> |
|               | Scanning for the main route.   |
| 10/15 - 01/16 | H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA: Mr. Ballard served as the Survey Project                        |
|               | Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new sidewalk.              |
| 06/11 - 09/13 | 260-01-0028, H.002372 LA 42 Widening and Improvements, Ascension Parish, LA: Mr. Ballard worked as a PLS on this project which                       |
|               | included boundary and topography, establishing the existing ROW and acquisition of additional ROW.   |
| 07/17 - 12/18 | H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA: Mr. Ballard served as the Survey Project Manager on this project                |
|               | that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall within the    |
|               | survey limits. Project included data collection of the topography via traditional means and methods along with <b>3D terrestrial scanning</b> .      |

#### **<u>16. Staff Experience:</u>**

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

| Firm employed b    | y Civil Design & Construction, Ind   | e. (CD&C)   |                    |  |  |  |  |  |
|--------------------|--|---|--------------------|--|--|--|--|--|
| Name Philip D      | upree  | Years of relevant experience with this employer                                 | 10                 |  |  |  |  |  |
| Title Survey l     | Party Chief  | Years of relevant experience with other employer(s)                             | 30                 |  |  |  |  |  |
| Degree(s) / Years  | s / Specialization   |   |                    |  |  |  |  |  |
| Active registratio | n number / state / expiration date   | NSPS Certified Survey Technician, Level III, Boundary Cert. No. 0799-           | 1106               |  |  |  |  |  |
|                    |  | Nationwide; AISSA Certified as Registered Flagger                               |                    |  |  |  |  |  |
| Vear registered    | Discipline   | ATSSA Certified Traffic Control Tech & Traffic Control Supervisor               |                    |  |  |  |  |  |
| Contract rala(a) / | brief description of regrongibilities  | Mr. Durman is the Serier Survey Derty shief who will work to ave                |                    |  |  |  |  |  |
| Contract role(s) / | brief description of responsibilities  | Nir. Dupree is the Senior Survey Party chief who will work to ove               | rsee a crew as     |  |  |  |  |  |
|                    |  | well as alde in coordinating all crews with Survey Pivi to ensure if            | eld work is        |  |  |  |  |  |
| <b>F</b> 1 (       |  | being completed timely and accurately.  | 1 22 66 1 2 1      |  |  |  |  |  |
| Experience dates   | Experience and qualifications relev  | and to the proposed contract; <i>i.e.</i> , "designed drainage", "designed gi   | ders", "designed   |  |  |  |  |  |
| (mm/yy-mm/yy)      | intersection", etc. Experience date  | s should cover the time specified in the applicable MPR(s).                     |                    |  |  |  |  |  |
| 07/20 - 04/21      | H.001352.5 and H.002273.5 Comite   | <b>River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge,</b>        | East Baton         |  |  |  |  |  |
|                    | <b>Rouge Parish:</b> r. Dupree was the Sen   | for Party Chief & Field Coordinator for this project. CD&C as a sub-cons        | ultant on this     |  |  |  |  |  |
|                    | topographic data for this project was  | and LA 19 sites of the Confide River Diversion providented traditionally        | sject. The         |  |  |  |  |  |
| 01/18 02/2020      | H 004100 I_10. I A 415 to Essen I at   | ne on L10 and L12 West and East Baton Rouge I A. Mr. Dupree is th               | e Survey Party     |  |  |  |  |  |
| 01/10-02/2020      | Chief for this project CD&C as a sub   | -consultant on this project is responsible for topographic surveying the po     | rtion of I-10 in   |  |  |  |  |  |
|                    | West Baton Rouge Parish beginning a  | t 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.  |   | 10 211080 0110 010 |  |  |  |  |  |
| 07/17-12/2018      | H.010960.5-2, LA 30 Roundabout a   | t Tanger I-10, Ascension Parish, LA: Mr. Dupree is serving as Field coo         | ordinator on this  |  |  |  |  |  |
|                    | project by working specifically to set   | the control on the job and overseeing field crews as they work to complete      | e the topography.  |  |  |  |  |  |
| 10/15-12/2018      | H.011235 I-49 South at Verot Schoo   | ol Road, Lafayette, LA: Mr. Dupree served as Field coordinator on this p        | roject. He         |  |  |  |  |  |
|                    | resurrected the original control set on  | the project and oversaw the checking of it. Mr. Dupree was the field coord      | rdinator with the  |  |  |  |  |  |
|                    | R/R and also the SUE contractor on the   | ne project. He oversaw all field crews and ensured that the project was co      | mpleted            |  |  |  |  |  |
|                    | accurately and timely.   |   |                    |  |  |  |  |  |
| 01/16-08/2016      | H.005733.5 US 190 Superstreet, St.   | Tammany Parish, LA: Mr. Dupree served as Field coordinator on this u            | ırban roadway      |  |  |  |  |  |
|                    | topography project that included 3D s  | canning in addition to traditional topography. He oversaw the daily progr       | ess of both        |  |  |  |  |  |
|                    | traditional field crews and scan crews and completed the project accurately and on schedule. |   |                    |  |  |  |  |  |

| 10/16-11/2016 | H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA: Mr. Dupree served as Field coordinator on                  |
|---------------|--|
|               | this project. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building               |
|               | information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional        |
|               | information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new        |
|               | bridge. To utilize data collection of the failed bridge, 3D Terrestrial Scanning was incorporated in conjunction with traditional    |
|               | means to complete the topographic survey.  |
| 07/14/10/2015 | H.010319.5 I-110 North St. to Plank Road, Baton Rouge, LA: Mr. Dupree served as Field coordinator on this heavily traveled           |
|               | Interstate project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both            |
|               | traditional field crews and scan crews and completed the project accurately and on schedule. He also coordinated with the            |
|               | district and state police to oversee the rolling lane closure that was required to obtain the drainage invert data.                  |
| 05/13-07/13   | H.009288 LA 1 Railroad Bridge at DOW, West Baton Rouge, LA: Mr. Dupree served as Senior Party Chief for this project                 |
|               | located in West Baton Rouge Parish. The intent is to create a grade separation at the intersection of LA 1 and the R/R spur for      |
|               | DOW. CD&C is performing all of the topographic survey for this project including utility coordination and R/R coordination           |
|               | and permits so that CD&C can survey the spur and parallel line.  |
| 10/14-12/14   | H.011088.5 West Prien Lake, Lake Charles, LA: Mr. Dupree served as the Senior Party Chief for this project working to                |
|               | collect all field data as required by the project. This project was to provide topographic survey for a new route to be constructed. |
|               | Topographic survey and DTM was required along the proposed alignment including all utilities and all drainage with the survey        |
|               | limits.  |
| 02/14-03/17   | H.010620 I-49 Design Build: Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as        |
|               | required by the project. CD&C also produced ROW maps for the project. Mr. Dupree also was the lead Party Chief for the               |
|               | property surveys on this project.  |
| ( 1 1 1 1     | 1)   |

(Add rows as needed)

| Firm Name   | SIGMA CONSU   | LTING GRO                     | OUP, INC.  | Past    | Perform   | ance Evaluati | on Discipline(s) | Survey, Road   |       |
|---|---|-------------------------------|------------|---------|-----------|---------------|------------------|----------------|-------|
| Project name  | LA 342: Roundabout @ LA 724 Route LA 342 Firm responsibility (prime or sub) |                               |            |         |           |               |                  |                | Prime |
| Project number  | H.002163  | H.002163 Owner's name LA DOTD |            |         |           |               |                  |                |       |
| Project location  | ect location Lafayette Parish Owner's Project Manager Tim Nickel, PE        |                               |            |         |           |               |                  | Tim Nickel, PE |       |
| Owner's address   | ss, phone, email  | P.O. Box                      | 94245, Bat | on Roug | je, LA 70 | 806, 225-379  | -1110, Timothy.  | Nickel@la.gov  |       |
| Services commenced by this firm (mm/yy) 01/14 Total consultant contract cost (\$1,000's)                    |   |                               |            |         |           |               | \$282.8          |                |       |
| Services completed by this firm (mm/yy) 07/16 Cost of consultant services provided by this firm (\$1,000's) |   |                               |            |         |           |               | m (\$1,000's)    | \$282.8        |       |

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

This project included full topographic surveying, right of way mapping, and road design for a new single lane roundabout in Lafayette, LA.

Sigma designed a roundabout at the intersection of Ridge Road and Fieldspan Road. The intersection geometry includes an urban two-lane highway to the east (LA 342), a local two lane road to the west (Ridge Rd.), and an urban two lane highway to the north (LA 724) and south (LA 342 / LA 724). The design of the project is in conformance with EDSM VI.1.1.6, along with all recommendations from the project roundabout study. The project included subsurface and open ditch drainage through and area with minor historic flooding and very little hydraulic fall.

The topo survey included topography of the existing roadway, drainage features, existing utilities and roadside features. Sigma coordinated with the DOTD District 03 Utility Coordinator and utility owners for utility impacts to the project. Right of way maps were also prepared by Sigma in accordance with DOTD Location & Survey requirements.

#### Sigma Firm Members Involved:

In Charge: Robbie Lear Josh Renard Greg Sepeda Alex Farr Miles Williams Lance Amedee Donnie Thymes

#### Topographic / Property Survey & R/W Maps

- GPS Control Sketch
- Field Topography
- Property Survey
- Title Research Reports
- Right of Way Maps
- Utility Coordination: QL-D and QL-C
- Topographic Mapping with INROADS Survey

#### Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry
- Design Report
- Typical Sections
- Geometric Details
- Plan / Profiles
- Drainage Design
- Cross Sections
- Permanent Signing & Striping
- Construction Sequencing
- Engineer's Construction Cost Estimate & Quantities
- Microstation / CadConform Plan Delivery





| Firm Name  | SIGMA CONSU   |                               | OUP, INC. | Past    | Past Performance Evaluation Discipline(s) |               |                       | Road             |  |
|--|---|-------------------------------|-----------|---------|---|---------------|-----------------------|------------------|--|
| Project name   | I-10: LA 347 to Atchafalaya Floodway Bridge Firm responsibility (prime or sub |                               |           |         |   |               | ility (prime or sub?) | Prime            |  |
| Project number   | H.003014  | H.003014 Owner's name LA DOTD |           |         |   |               |                       |                  |  |
| Project location   | bject location St. Martin Parish Owner's Project Manager Nick Olivier, PE     |                               |           |         |   |               |                       | Nick Olivier, PE |  |
| Owner's addres   | s, phone, email   | P. O. Box                     | 94245, Ba | ton Rou | ge, LA 70                                 | 0806, (225) 3 | 79-1133               |                  |  |
| Services commenced by this firm(mm/yy) 06/13 Total consultant contract cost (\$1,000's)                              |   |                               |           |         |   |               |                       | \$852.7          |  |
| Services completed by this firm (mm/yy) <b>Ongoing</b> Cost of consultant services provided by this firm (\$1,000's) |   |                               |           |         |   |               | m (\$1,000's)         | \$852.7          |  |

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

Sigma is the prime consultant for this project which includes topographic and control surveying, interstate highway design, diamond interchange design with roundabouts at the ramp termini, and roadway improvements to LA 347.

Sigma performed the topographic survey which includes four bridges, a wooded median, drainage structures and outfalls, interchanges, roadways along LA347 and LA352, and utility crossings. LA DOTD survey and linework codes were used in the field. Sigma used Inroads Survey, CadConform, and LA DOTD codes to prepare the topographic map and required .fwd, .dtm, and .alg files for this project.

The interstate design includes 3 lanes in the WB direction and 2 lanes in the EB direction separated by either a median barrier or a wooded median. A complex sequence of construction was developed to allow for construction of new ramp termini at LA 347 with roundabouts and to handle traffic at the Atchafalaya Basin Bridge for approach slab construction. Sigma coordinated closely with DOTD Bridge Design section, which was responsible for bridge widening at two locations. Detailed hydraulic analysis of the outfall channel adjacent to LA352 including HEC-RAS modeling was conducted by Sigma to alleviate flooding problems at the interchange.

Sigma assembled the multi-discipline plan set, quantities, pay items and worked with DOTD Project Management to develop the estimated construction costs. Sigma is currently providing construction support.

#### Road Design (Preliminary & Final Plans)

- Expedited Schedule
- Interstate Highway Design
- Interchange Design Roundabout Design
- Typical Sections PCC and Asphalt Alternates
- Open Ditch and Subsurface Drainage Design
- Plan Profiles
- Geometric Details
- Complex Sequence of Construction
- Level 4 Traffic Management Plan
- Cross Sections
- Permit Sketches
- Coordinated Roadway Lighting with Sub
- Utility Conflict Matrix & Coordination with District Utility Engineer
- Construction Support
- Multi-Discipline Plan, Pay Item, Cost Estimate Assembly
- QA/QC Checklist

#### Sigma Firm Members Involved:

In Charge: Robbie LearGreg SepedaMiles WilliamsAlex FarrBryan HarmonDerek WheatJosh Renard



| Firm Name  | SIGMA CONSUL   | OUP, INC.                     | Past       | Past Performance Evaluation Discipline(s) |           |              | Survey, Road     |                       |       |
|--|--|-------------------------------|------------|---|-----------|--------------|------------------|-----------------------|-------|
| Project name   | LA 347: Roundabout @ Melancon Rd. Route LA 347 Firm responsibility (prime or sub                                   |                               |            |   |           |              |                  | ility (prime or sub?) | Prime |
| Project number   | H.009456   | H.009456 Owner's name LA DOTD |            |   |           |              |                  |                       |       |
| Project location St. Martin Parish Owner's Project Manager Christina Brignac,            |  |                               |            |   |           |              | ;, <b>PE</b>     |                       |       |
| Owner's address  | ss, phone, email   | P.O. Box                      | 94245, Bat | on Roug                                   | je, LA 70 | 806, 225-379 | -1445, Christina | a.Brignac@la.gov      |       |
| Services commenced by this firm (mm/yy) 01/14 Total consultant contract cost (\$1,000's) |  |                               |            |   |           |              | \$297.9          |                       |       |
| Services compl   | bervices completed by this firm (mm/yy) <b>12/16</b> Cost of consultant services provided by this firm (\$1,000's) |                               |            |   |           |              | m (\$1,000's)    | \$297.9               |       |

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

This project included full topographic surveying, right-of-way mapping, and road design for a new single lane roundabout in Breaux Bridge, LA.

Sigma designed a single-lane 4-legged roundabout at the intersection of LA 347 and Doyle Melancon Rd. / Extension. The design of the project is in conformance with EDSM VI.1.1.6, along with all recommendations from the project roundabout study. The project included relocation of a large drainage ditch and 72" CMPA subsurface drainage. The geometrics were designed to eliminate impacts to a significant oak tree at the southeast quadrant of the intersection.

The topo survey included topography of the existing roadway, drainage features, existing utilities and roadside features. Sigma coordinated with the DOTD District 03 Utility Coordinator and utility owners for utility impacts to the project. Right of way maps were also prepared by Sigma.

#### Sigma Firm Members Involved:

In Charge: Robbie Lear Josh Renard Greg Sepeda Alex Farr Miles Williams Lance Amedee Donnie Thymes

#### Topographic / Property Survey & R/W Maps

- GPS Control Sketch
- Field Topography
- Property Survey
- Title Research Reports
- Right of Way Maps
- Utility Coordination: QL-D and QL-C
- Topographic Mapping with INROADS Survey

#### Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry / Design Report
- Typical Sections
- Geometric Details
- Plan / Profiles
- Drainage Design
- Cross Sections
- Permanent Signing & Striping
- Construction Sequencing
- Engineer's Construction Cost Estimate & Quantities
- Microstation / CadConform Plan Delivery



| Firm Name  | SIGMA CONSULTING GROUP, INC.                                  |                               |         |           | Past    | Perform   | ance Evaluati | on Discipline(s)     | Road    |  |
|--|---|-------------------------------|---------|-----------|---------|-----------|---------------|----------------------|---------|--|
| Project name   | LA 352 Drainage Improvement Firm responsibility (prime or sub |                               |         |           |         |           |               | lity (prime or sub?) | Prime   |  |
| Project number   | H   | H.014415 Owner's name LA DOTD |         |           |         |           |               |                      |         |  |
| Project location   | n St. Martin Parish Owner's Project Manager Corey Landry,     |                               |         |           |         |           |               | Corey Landry, PE     |         |  |
| Owner's addres   | s, p  | ohone, email                  | P.O.Box | 94245, Ba | ton Rou | ge, LA 70 | 0806, (225) 3 | 79-1889              |         |  |
| Services commenced by this firm(mm/yy) 05/21 Total consultant contract cost (\$1,000's)                              |   |                               |         |           |         |           |               | \$208.8              |         |  |
| Services completed by this firm (mm/yy) <b>Ongoing</b> Cost of consultant services provided by this firm (\$1,000's) |   |                               |         |           |         |           |               | m (\$1,000's)        | \$208.8 |  |

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

Sigma is the prime consultant for this project which includes the design and construction plan preparation of regional drainage improvements in the vicinity of the I-10 Henderson exit in St. Martin Parish. Regional flooding is experienced due to undersized side drains and side road cross drains along with spill-over from adjacent drainage areas during significant rain events.

Detailed hydraulic analysis of the outfall channel adjacent to LA352 including HEC-RAS modeling was conducted by Sigma to determine solutions to alleviate flooding problems at the interchange. The selected alternative included removing undersize pipes at 3 locations on LA352, installation of a 10x6 RCB at two locations, and installation of a combination of open ditch and subsurface drainage bypass system. The bypass system equalizes flow from the interchange and enters the system at a lower starting water surface elevation.

Sigma assembled the plan set, quantities, pay items and estimated construction costs.

#### Road / Drainage Design (Preliminary & Final Plans)

- Open Ditch and Subsurface Drainage Design
- HEC-RAS and HYDRO-WIN Modeling
- Plan Profiles
- Sequence of Construction
- Cross Sections
- District 03 coordination
- Right of Way Maps

#### Sigma Firm Members Involved:

In Charge: Robbie Lear Greg Sepeda Alex Farr Derek Wheat

Miles Williams Bryan Harmon Josh Renard





| Firm Name                                       | SIGMA CONSU  | TING GRC    | OUP, INC.  | Past    | Perform                                    | ance Evaluati   | ion Discipline(s)  | Road          |         |
|---|--|-------------|------------|---------|--|-----------------|--------------------|---------------|---------|
| Project name                                    | MOVEBR Infrastructure Enhancement & Traffic Mitigation Prog. Firm responsibility (prime or sub |             |            |         |  |                 |                    |               | ?) Sub  |
| Project number                                  | 19-CS-HC-000   | Owner's r   | name       | EBR De  | pt. of Trans                               | portation & Dra | inage              |               |         |
| Project location                                | East Baton R   | louge Paris | sh         |         |  | Owner's Pro     | oject Manager      | Tom Stephens, | PE      |
| Owner's address, ph                             | ione, email  | P. O. Box   | 1471, Bate | on Roug | e, LA 708                                  | 821, (225) 38   | 9-3186             |               |         |
| Services commenced by this firm(mm/yy) 07/19    |  |             |            |         | Total consultant contract cost (\$1,000's) |                 |                    |               | \$1.0B  |
| Services completed by this firm (mm/yy) Ongoing |  |             |            |         | consultar                                  | t services pro  | ovided by this fir | m (\$1,000's) | \$2,320 |
| D 11 11   | · 1 1 · · · 1 · ·  | <u> </u>    | 1 .        | 1 1     | /TT' 1 1' 1                                |                 | 1 1 .              | 1)            |         |

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

The East Baton Rouge Parish Department of Transportation and Drainage (DTD) selected the Stantec / Sigma team as Program Managers for the Corridor Improvement and Community Enhancement Projects under the MOVEBR Infrastructure Enhancement and Traffic Mitigation Program in April 2019. This \$1.0 billion program is the largest transportation infrastructure program ever implemented by East Baton Rouge (EBR) Parish. Program projects are scoped to increase capacity and make safety, mobility, and access management improvements to certain roadways and intersections throughout the Parish. There are additional projects that will enhance existing corridors by providing pavement resurfacing, traffic signal synchronization, turn lane improvements, ADA compliance features, and Complete Street elements such as cycling paths, sidewalks, transit accommodations, and Green Infrastructure.

Sigma has personnel in the leadership of the Program Management Team specifically overseeing project delivery from planning stages, through design, and eventually construction and closeout. In addition, these personnel lead and facilitate program committees focused on technical and procurement aspects of the overall Program.

Sigma was instrumental in development of the Program Design Guidelines, preparation of program-wide technical specifications, standards, contract development, and design consultant services management. Sigma is also responsible for program utility coordination, land management, bid document preparation, and project management of several corridor and enhancement projects. This includes procurement of design services; design consultant oversight; contract and payment administration; management of project scope, schedule, and budget; coordination of public outreach and stakeholder engagement; and delivery into the construction phase of the project. Sigma personnel will be involved with the construction management of the Program as projects begin moving into construction.

#### **Program Management**

- Planning & Prioritization
- Land Acquisition Management
- Utility Coordination
- Project Management
- Process Governance

#### **Engineering Support**

- Specifications & Standards
- Bid Document Preparation
- Technical Support
- Value Engineering
- Cost Estimating

#### **Construction Management**

- Contractor Coordination
- Construction Oversight
- Inspection Supervision
- Change Management
- Constructability Review and Resolution

Sigma Firm Members Involved:

In Charge: Jason CrainMiles WilliamsHolly FulkersonBryan HarmonJosh RenardAlex FarrGreg SepedaJosh OlivierJosh Renard



| Firm name          | ARCADIS                                |                  |                  | P    | ast Performance Evaluation Discipline(s)*  | Bridge, Road, Traffic, Env |
|--------------------|--|------------------|------------------|------|--|----------------------------|
| Project name       | Lee Drive (Highland Road-Perkins Road) |                  |                  |      | irm responsibility (prime or sub?)         | Prime                      |
| Project number     | City-Parish Project No. 20             | D-CP-HC-0044     | Owner's name     |      | City of Baton Rouge/Parish of East Baton   | Rouge                      |
| Project location   | East Baton Rouge Parish, Louisiana     |                  |                  |      | wner's Project Manager                     | Justin Schexnayder         |
| Owner's address, j | phone, email 8555 Unite                | d Plaza Blvd., I | Baton Rouge, LA  | 708  | 309, (225) 761-3628, justin.schexnayder@c  | srsinc.com                 |
| Services comment   | ced by this firm (mm/yy)               | 02/21            | Total consultant | co   | ntract cost (\$1,000's)                    | \$2,568                    |
| Services complete  | d by this firm (mm/yy)                 | Ongoing          | Cost of consulta | nt s | services provided by this firm (\$1,000's) | \$1,536                    |
|                    |  |                  |                  | . —  |  |                            |

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

**Firm's Role:** The purpose of this project is to widen Lee Drive from a 2-lane to a 3-lane section between Highland Road and Perkins Road. Arcadis is responsible for design study and design services include *traffic study* and report, topographic survey, hydraulic and drainage analysis, *preliminary and final plans preparation, signal design, bridge design, construction cost estimate*, and right of way maps.

#### Frige State Intersections The State Intersect

#### Firm Members Involved: Jose L. Rodriguez, Ari Deitch, and Gabriel Arias.

#### **Design Study Report and Preliminary Design**

Arcadis provided *traffic engineering studies* and *preliminary roadway and drainage design* and evaluated alignment alternatives. The work was prepared in coordination with the City of Baton Rouge and the MOVEBR Program. A preferred alternative was presented to the City of Baton Rouge

#### **Relevant Services**

- Traffic Studies
- Preliminary and Final Plans
- Roadway Design
- Traffic Signal Design
- Intersection Improvements
- Access Management
- Construction Cost Estimates

based on findings from the traffic study, impacts to existing right-of-way, and a detailed *construction cost analysis*. Arcadis also assisted the City of Baton Rouge in obtaining public input by participating in public meetings and preparing exhibits for public display.



*estimates*. The Lee Drive project involves the complete reconstruction of Lee Drive from Highland Road to Perkins Road. The proposed typical section extends approximately 1.7 miles and is a three-lane urban section with a left-turn center lane. The project goal was to improve vehicular



#### Figure: Proposed Typical Section Alternative on Lee Drive

traffic capacity and connectivity to all corridor users by delivering safe and efficient pedestrian/bicycle facilities while maintaining neighbourhood integrity. Improvements also include *sidewalks and bike lanes, traffic signal upgrades, intersection capacity and safety improvements,* and *access management*.

The design team gave special considerations to traffic and access maintenance, constructability, utility coordination and right-of- way requirements. Ensuring proper drainage during construction and overall drainage improvements was another major factor considered for the project.

| Firm name          | ARCADIS   |                |                      | Past Performance Evaluation<br>Discipline(s)*                   | Traffic         |  |  |
|--------------------|---|----------------|----------------------|---|-----------------|--|--|
| Project name       | East Baton Rouge Signal L                           | Jpgrades and I | Design Plans         | Firm responsibility (prime or sub?) Prime                       |                 |  |  |
| Project number     | H.0138305   |                | Owner's name         | Louisiana Department of Transportation and Development (LADOTD) |                 |  |  |
| Project location   | East Baton Rouge Parish,                            | LA             |                      | Owner's Project Manager   | Andre Fillastre |  |  |
| Owner's address, j | phone, email 1201 Capit                             | ol Access Road | d, Baton Rouge, LA 7 | 0802, 225 292 4646, andre.fillastre@la.gc                       | ٥v              |  |  |
| Services comment   | nced by this firm (mm/yy) 04/19 Total consultant co |                |                      | ntract cost (\$1,000's)   | \$76            |  |  |
| Services complete  | d by this firm (mm/yy)                              | 12/19          | Cost of consultant   | services provided by this firm (\$1,000's)                      | \$76            |  |  |

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

**Firm's Role:** Arcadis developed *signal design and timing plans* for upgraded signal detection and equipment at 39 signalized intersections in East Baton Rouge Parish, LA that are currently maintained by the City of Baton Rouge. Signal detection equipment at these intersections is being upgraded from video detection systems to wireless vehicle detection systems (magnetometers).

#### Firm Members Involved: Ari Deitch and Thomas Montz

**Existing Signal Equipment Inventory:** Arcadis conducted an *inventory of existing signal equipment and detection type* using an ArcGIS based application to input data and photographs directly from the field. This allowed for seamless distribution and access to project team members and facilitated continuous tracking of signal equipment upgrades

#### Signal Design Development and Construction Plans:

Arcadis developed *signal design plans* showing equipment and detection layout, *wiring diagram, timing plans*, quantities, etc.

Arcadis coordinated with product manufactures to gain an understanding of the capabilities, specifications, and limitations of various magnetometer detection systems. A *signal detection plan* was devised for each intersection based on the unique features such as posted speeds, lane configurations, signal phasing, and signal coordination parameters. Additional signal equipment was evaluated, and upgrades determined based on the need to support *signal performance measures and coordination* for each location. Setback detection was provided for signals within a coordinated system.

Approach methodology was provided to LADOTD and City of Baton Rouge ahead of time to streamline the overall plan development and review process and meet the expedited project schedule. *Construction plans and quantities were completed for all 39 intersections*. Plans were developed and finalized within an *expedited schedule of 6 months*.

#### Relevant Services

- Traffic Signal Inventory
- Signal Design Plans
- Signal Timing Plans
- Quantities and Construction Cost Estimates



Figure: Design plans for signal equipment upgrades at the intersection of Florida Boulevard and 22<sup>nd</sup> Street

| ARCADIS                   |  |  | Pa  | ast Performance Evaluation Discipline(s)*  | Traffic, TMP   |
|---------------------------|--|--|---|--|--|
| I-20/I-220 Interchange Ir | nprovement a   | nd Barksdale   | Fi  | irm responsibility (prime or sub?)   | Sub  |
| Air Force Base (BAFB) Ac  | cess   |  |   |  |  |
| State Project No. H.0033  | 70   | Owner's name   | )   | Louisiana Department of Transportation a   | and Development (LADOTD)   |
| Bossier City, Louisiana   |  |  | Ο   | wner's Project Manager   | Corey Landry   |
| phone, email 1201 Capit   | ol Access Rd, B  | aton Rouge, LA 7   | 708(  | 02, 225-379-1889, corey.landry@la.gov  |  |
| ced by this firm (mm/yy)  | 05/19  | Total consultant   | cor   | ntract cost (\$1,000's)  | \$4,411  |
| d by this firm (mm/yy)    | Ongoing  | Cost of consulta   | nt s  | services provided by this firm (\$1,000's)   | \$535  |
|                           | I-20/I-220 Interchange Ir   Air Force Base (BAFB) Ad   State Project No. H.0033   Bossier City, Louisiana   bhone, email 1201 Capit   ed by this firm (mm/yy)   d by this firm (mm/yy) | I-20/I-220 Interchange Improvement a   Air Force Base (BAFB) Access   State Project No. H.003370   Bossier City, Louisiana   bhone, email 1201 Capitol Access Rd, B   ed by this firm (mm/yy) 05/19   d by this firm (mm/yy) Ongoing | State Project No. H.003370 Owner's name   Bossier City, Louisiana J201 Capitol Access Rd, Baton Rouge, LA 7   ced by this firm (mm/yy) 05/19 Total consultant   d by this firm (mm/yy) Ongoing Cost of consultant | I-20/I-220 Interchange Improvement and Barksdale F   Air Force Base (BAFB) Access Owner's name   State Project No. H.003370 Owner's name   Bossier City, Louisiana O   bhone, email 1201 Capitol Access Rd, Baton Rouge, LA 708   ed by this firm (mm/yy) 05/19 Total consultant con | I-20/I-220 Interchange Improvement and Barksdale<br>Air Force Base (BAFB) Access Firm responsibility (prime or sub?)   State Project No. H.003370 Owner's name Louisiana Department of Transportation at<br>0 wner's Project Manager   Bossier City, Louisiana 1201 Capitol Access Rd, Bactors Rd, Bactors Rd, Bactors Rd, Bactors Rd, Bactors Rouge, LA 25-379-1889, corey.landry@la.gov   bhone, email 1201 Capitol Access Rd, Bactors Rd, Bactors Rouge, LA 25-379-1889, corey.landry@la.gov   ed by this firm (mm/yy) 05/19 Total consultant cost (\$1,000's)   d by this firm (mm/yy) Ongoing Cost of consultant services provided by this firm (\$1,000's) |

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

# **Firm's Role:** The purpose of this project is to improve access to and traffic operations around BAFB. The project includes extending a controlled-access facility across Interstate 20 (I-20) and Kansas City Southern (KCS) railroad tracks to a new, more secure entry gate. The project also reconfigures the existing interchange, providing full access to/from I-20, I-220 and BAFB. Arcadis is responsible for *traffic engineering-related services* for the designbuild project, including modification of the Interchange Modification Report (IMR), preparing a *Level 4 Transportation Management Plan (TMP)*, and developing the signing design and layout.

#### **Relevant Services**

- Traffic Studies
- Interchange Modification Report
- Transportation Management Plan

#### Firm Members Involved: Ari Deitch and Thomas Montz.

#### **Preliminary Design**

Arcadis provided *traffic engineering-related services* for an Alternative Transportation Concept (ATC) during the proposal process. Arcadis performed the *traffic analysis* to implement the ATC, documented the findings, submitted the IMR, and coordinated with the design-builder, LADOTD, and other stakeholders to incorporate review and approval by FHWA.

#### **Final Design**

For the Final Design Phase, Arcadis was responsible for the *development of the project's TMP* to mitigate the impact of construction of the traveling public. The mitigation strategies included the analysis of a short term detour, which would close a system interchange ramp, causing interstate traffic to utilize several state-owned surface facilities. Arcadis conducted the *analysis of the detour alternative and developed a plan to provide efficient surface street operations*. The development of the TMP required efficient and fluid coordination and collaboration between the design-builder, LADOTD, BAFB, the City of Bossier City, and the Northwest Louisiana Council of Governments.

Arcadis also developed the permanent signing plans for the project, which involved a review of existing signs to determine



what can be retained and what should be modified. The design included the layout of the signs along the route, the design of the sign, and quantification of the sign and all appurtenances for the construction plan set.

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

| Firm name        | <b>Civil Design &amp; Construction</b> | , Inc.     | F        | Past Performance H  | Evaluat  | ion Discipline(s)*   | Survey             |       |
|------------------|--|------------|----------|---------------------|----------|----------------------|--------------------|-------|
| Project name     | I-10 TX State Line East of Coon        | e Gully    |          |                     |          | Firm responsibili    | ity (prime or sub? | ) Sub |
| >Project number  | H.003184.5                             | Owner's n  | ame      | LADOTD / Stan       | ley Ar   | d, PLS               |                    |       |
| Project location | Calcasieu Parish, LA                   |            |          | Owner               | 's Proj  | ect Manager          | Stanley Ard, PL    | S     |
| Owner's address  | , phone, email 1201 Capital            | Access Rd. | , Baton  | Rouge, LA70802/2    | 225-37   | 9-1232/Stanley.ar    | d@la.gov           |       |
| Services commen  | nced by this firm (mm/yy)              | 10/15      | Total co | nsultant contract c | ost (\$1 | ,000's)              |                    | N/A   |
| Services complet | ted by this firm (mm/yy)               | 12/18      | Cost of  | consultant services | s provi  | ded by this firm (\$ | 1,000's)           | \$443 |

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

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

**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.

<u>CD&C's Role:</u> 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. <u>Members Involved:</u> CD&C employees involved in the project included Karla E. Weston, P.E.; Ralph Burgess, PLS, Survey Manager; Chris Ballard, PLS Survey Project Manager; Phil Dupree, Party Chief;

Jacob Stoehr, Party Chief; Trent Norris, 3D Scanning Technician; John Ewing, Survey Technician, Scott Benton, 3D Scanning Technician. <u>Performed in LA</u>: 100%





Identify the team's project experience <u>most relevant</u> to the scope in the advertisement. The projects should be limited to a total of 30, with no more than 10 projects being represented by a single firm on the team. If more than 30 projects are identified, all projects identified after the first 30 will not be evaluated. If more than 10 projects are identified for a single firm, all projects identified after the first 10 from that firm will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

| Firm name        | <b>Civil Design &amp; Construction</b> | , Inc.     | P          | Past Perfor | mance Evaluat     | ion Discipline(s)*   | Survey              |       |     |
|------------------|--|------------|------------|-------------|-------------------|----------------------|---------------------|-------|-----|
| Project name     | I-10: LA 415 to Essen Lane on I-       | 10 and I-1 | 2          |             |                   | Firm responsibil     | ity (prime or sub?) | )     | Sub |
| Project number   | H.004100                               | Owner's    | name       | LADOT       | D                 |                      |                     |       |     |
| Project location | West and East Baton Rouge,             | LA         |            |             | Owner's Proj      | ect Manager          | Nicholas Olivier    |       |     |
| Owner's address  | , phone, email 1201 Capital            | Access Ro  | l, Baton F | Rouge, LA   | 70802 / 225-3     | 79-1232 / Nichola    | s.olivier@la.gov    |       |     |
| Services comme   | nced by this firm (mm/yy)              | 01/18      | Total co   | nsultant co | ontract cost (\$1 | ,000's)              |                     | N/A   |     |
| Services comple  | ted by this firm (mm/yy)               | on-going   | Cost of o  | consultant  | services provid   | ded by this firm (\$ | 51,000's)           | \$296 | 5   |

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

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

**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.



Members Involved: Karla E. Weston, P.E.; Ralph Burgess, PLS, Christopher Ballard, PLS; Phil Dupree, Party Chief; Jacob Stoehr, Party Chief; Trent Norris, 3D scanning technician; John Ewing, Survey Tech; Performed in LA: 100%

Identify the team's project experience **most relevant** to the scope in the advertisement. The projects should be limited to a total of 30, with no more than 10 projects being represented by a single firm on the team. If more than 30 projects are identified, all projects identified after the first 30 will not be evaluated. If more than 10 projects are identified for a single firm, all projects identified after the first 10 from that firm will not be evaluated. Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects.

| Firm name        | Civil Design &       | Construction | , <b>Inc</b> . |          | Past Perfor    | mance Evaluat     | ion Discipline(s)*  | survey             |               |
|------------------|----------------------|--------------|----------------|----------|----------------|-------------------|---------------------|--------------------|---------------|
| Project name     | Verot School Roa     | d            |                |          |                |                   | Firm responsibil    | ity (prime or sub? | ) Sub         |
| Project number   | H.011235             |              | Owner's        | s name   | LADOT          | D                 |                     |                    |               |
| Project location | Lafayette, LA        |              |                |          |                | Owner's Proj      | ect Manager         | Thomas Gattle (H   | uval & Assoc. |
| Owner's address  | , phone, email       | 922 W. Point | Des Mou        | ton Rd., | , Lafayette, I | LA 70507/337-     | 234-3798/tgattle(   | a huvalassoc.com   |               |
| Services comme   | nced by this firm (n | nm/yy)       | 08/16          | Total o  | consultant c   | ontract cost (\$1 | ,000's)             |                    | N/A           |
| Services comple  | ted by this firm (r  | nm/yy)       | 01/18          | Cost o   | f consultant   | services provid   | ded by this firm (S | \$1,000's)         | \$435         |

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

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

**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.

<u>CD&C's Role:</u> 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.

<u>Members Involved:</u> Karla Weston, PE; Ralph Burgess, PLS Survey Manager; Christopher Ballard, PLS Survey PM; Trent Norris, 3D Scan Tech; Phil Dupree, Party Chief; Jacob Stoehr, Party Chief; Jason Stoehr, Party Chief, Alex Wells, Party Chief **Performed 100% LA** 



#### 18. Approach and Methodology:

Sigma has served as the prime consultant on multiple roadway and intersection projects, including IDIQ contracts, for DOTD and understands the delivery and production processes for these types of projects. We have also served on several large project teams where communication, identifying team responsibilities and deadlines, and data sharing were paramount to the success of the project.

Most District projects arise because there is an identified public need, whether it be safety or capacity. As such, we appreciate DOTD's urgency for getting these projects to delivery quickly. Our team was assembled to make sure we have experienced team members and adequate resources to reach this goal. Please refer to Section 16 for additional information. The following is our approach to each component of a typical task order:

#### Pre-Task Order Scope and Task Development

At the onset of a potential task order, Sigma will work with the project manager to develop the contract scope and items necessary to deliver the project. We will work with the project manager to develop the blank manhour spreadsheet, sheet count, and conceptual delivery schedule. This early coordination ensures that both DOTD and Sigma are on the same page with respect to project goals, deliverables, and expectations. Once these items are established, independent manhour estimates will be completed for negotiated fee projects.

#### Kick-Off Meeting / Pre-Design Planning Conference & Work Planning

Once a Notice to Proceed is issued, Sigma and the DOTD will hold a project kickoff meeting, preferably in person. The appropriate DOTD team members and Sigma will walk through the project scope, discuss the items listed in the *Reconnaissance Evaluation / Pre-Design Planning Conference Form*, determine the dates for milestone deliverables, and estimate DOTD review periods at each milestone. The project design criteria, Stage 0 identified environmental constraints, and District 03 concerns will also be discussed and documented. Any DOTD provided services such as as-builts, geotechnical data, pavement design, environmental permitting needs, etc. will be requested at this meeting. All project points of contact with contact information will be collected and minutes of the meeting will be distributed to all pertinent personnel.

#### **Topographic Survey / Property Survey**

Civil Design & Construction will perform the surveying services needed to design the proposed project. With multiple survey crews, we will always have the resources to quickly mobilize and collect data necessary for design. We also plan to use existing R/W maps and/or perform title take-offs during the topographic survey phase to assist with locating property corners and to set the apparent existing R/W. This will allow us to expedite the property survey phases and eliminate multiple visits to the same site. The team member responsible for the topo and property survey will also be responsible for the R/W mapping. DOTD Location & Survey standards will be followed for all surveying services. The use of scanning technology will be incorporated where possible to avoid any traffic disruptions and for the safety of our surveying personnel. Final deliverables will be in accordance with DOTD Location and Survey requirements, including Microstation and Inroads Survey automation for mapping and terrain modeling.

Work Zone - All staff performing pre-construction services such as design, survey, and utility work have been trained in work zone safety. Whenever work shall affect the movement of traffic or traffic safety, we shall provide traffic control in conformance with the MUTCD and under the direction of a Traffic Control Supervisor (TCS). Prior to contract execution, Sigma will ensure that all appropriate personnel meet the work zone training requirements.

All utilities within the project limits, above and below ground, shall be located. Establishment of utility ownership shall also be included. Utility locates will be to Quality Level D or C services as defined by CI/ASCE Standard 38-02. Sigma has the capacity to perform additional Quality Level B services during preliminary plan development once viable alternatives are developed. This will keep the SUE effort focused on only those areas that potentially have an impact. To facilitate the utility coordination, Sigma will prepare a Utility Conflict Matrix. Following the plan-in-hand review with all stakeholders, Sigma will perform the Quality Level A exploration to finalize data for impacted utilities.

#### **Preliminary & Final Plan Preparation**

With the goal of streamlining plan delivery, Sigma will meet with DOTD to assess the complexity of the project and designate appropriate submittals. Sigma will prepare design reports, design waivers and exceptions when necessary, plans, opinions of probable costs, pay item quantities, TMP's, constructability and biddability reviews and QA/QC forms for all projects. The preliminary and final plan development process will typically follow the **Road Design Tasks for Completion Milestones** chart shown as Figure 1-03 in the DOTD Road Design Manual.

Our engineers will evaluate the site for general constructability and maintenance of traffic. Conceptual detour routes and/or diversion applications will be evaluated. We approach each project with constructability as a primary attribute in the design process. Also, by integrating planning, engineering and construction together in the project delivery process, we find that overall project success increases.

✓ NEPA Training - While our professional engineers possess the knowledge and expertise in DOTD standard specifications and design requirements, we want them to be familiar with environmental constraints and processes. Therefore, we encourage most of our project managers to attend the NHI Course #142005 for NEPA and Transportation Decision Making Processes.

Sigma is complimented by Arcadis, who will provide any traffic analysis and traffic studies required to further identify the project need and scope a solution. All traffic analyses will follow DOTD's Traffic Engineering processing and Report guidelines (TEPR). The study scope will be developed based on the preliminary site visit to study area, coordination with District Traffic Operation Engineer and local agencies for additional information on study area characteristics. Scope, schedule and tools to be used for the study will be discussed in detail during kick-off meeting. All the data collection tasks required for traffic analysis will be performed as per DOTD's TEPR guidelines and the project manager will be updated for consent before proceeding to next task.

TEPR Training - All traffic engineers with Arcadis have taken the DOTD Traffic Engineering Process and Report course. To help understand the process and make sure the necessary data is coordinated with the design team, Sigma has assigned one professional engineer, Alex Farr, to work with Arcadis. Alex has also taken the TEPR course as well as highway safety training.

The preparation of opinions of probable construction costs (OPCC) will be prepared, beginning at the 90% Preliminary Plan and updates with every subsequent submittal. The 90% Preliminary Plan submittal will include a draft of the Transportation Management Plan (TMP) for review by all stakeholders.

Traffic Control Plans – The project team will develop the TMP as applicable to each task order in accordance with EDSM VI.1.1.8. The level of TMP will be determined based on the project's location and impact to the roadway network. Determining the TMP level prior to project scoping is imperative to ensuring that all TMP requirements are included in the scope and that all necessary traffic data is collected to support any required analysis. The project team will coordinate closely with the project team, DOTD, and District Traffic Operations Engineer (DTOE) to ensure a mutual understanding of local needs and that proposed mitigation measures are appropriate for the area. All key team members have received Traffic Control Supervisor (TCS) training to facilitate preparing the temporary traffic control plans. QA/QC will be provided by Greg Sepeda who has also received TCS training. All have experience in developing multi-phased sequencing for road construction.

#### **Right of Way Mapping**

Since we intend to collect existing property information at the same time as the topographic survey, we will have right-of-way information as we develop alternatives. We intend to prepare and submit preliminary Base Right of Maps with the preliminary plan submittal and discuss with all stakeholders at the plan-in-hand review. Once all comments and requirements are tabulated following this review, CD&C will prepare final Base Right of Way maps for review with the 60% final plan submittal. Following the joint plan review, CD&C will expedite Final Right of Way maps so

DOTD can begin any land acquisition in advance of the design completion and project letting. All Right of Way deliverables will be prepared in accordance with DOTD Location & Survey Manual – Addendum A requirements.

#### **Permitting Services**

Concurrent with final plan development, Sigma will prepare draft applications for the Coastal Use Permits and/or the USACE Permits for DOTD review. These will be submitted with the 60% final plan submittal. With all project managers having NEPA training, we will be able to identify any other environmental constraints or permitting requirements. The DOTD Environmental Checklist will be prepared when necessary to identify if a Categorical Exclusion is appropriate for the project. CE's are anticipated for most safety projects.

#### Schedule

Sigma has worked on numerous roadway, bridge, and bridge replacement projects for LADOTD and understands the delivery and production

processes for these types of projects – this includes our current bridge replacement Contract No. 4400019338 where we already have established biweekly internal meetings, invoicing protocols, and Microsoft Teams pages set up as a way to keep an open line of communication with our Project Team. This allows us to "hit the ground running" and accelerates the project initiation phase, which we have learned is a large part of the work effort with our current bridge replacement project. We also have a past working relationship with each of our subconsultants with successful partnering and positive project results. We have prepared a schedule of typical phases and major milestones that would be submitted for each task order. The schedule to the right represents an accelerated project delivery with some of the standard milestones eliminated. A schedule similar to this may be necessary since the advertisement identified the project time as *Compressed*.



We plan to keep the project managers involved on the project into the construction stage. This includes working with the Districts and CE&I

consultants to address RFI's, assisting with solutions to unforeseen field conditions, and preparing plan changes when necessary. Sigma has provided construction support for several projects including design-bid-build and design-build projects.

#### **Project Management**

Robbie Lear will be the overall contract manager for the IDIQ contract. Robbie, along with Alex Farr and Bryan Harmon will serve as project managers depending on the type and amount of task orders issued. The PM will be responsible for meeting all project delivery requirements and engage subconsultants where necessary. Their duties include preparing monthly status reports to accompany invoices, developing and maintaining project schedules, and preparing internal work plans to meet each project milestone. All three have experience managing local projects and have both the technical experience and management skills to efficiently deliver projects on time and within budget.



Sigma offers a longstanding staff with a strong background in intersection, safety and road design projects. Most of our core engineering group has been with Sigma for over 10 years and has their primary experience in transportation related projects for DOTD. Please refer to the resumes of Section 17 for specific personnel experience. The longevity of the core group helps facilitate the communication necessary for project success. Task orders will be assigned to one of the following 3 project managers:

- Robbie Lear, PE, LSI will also serve as a Project Manager. He has over 24 years of road design experience with DOTD projects, with an emphasis on roundabouts, intersections and interchanges. He is a Certified Traffic Control Supervisor and has designed several complex maintenance of traffic plans and detours for DOTD project. He also has experience in surveying and SUE services for DOTD.
- Bryan Harmon, PE will serve as a Project Manager. He brings over 34 years of experience in the transportation and drainage, with an emphasis on urban projects. As the former Chief Engineer and DPW Director for East Baton Rouge Parish, Bryan has worked hand-in-hand with DOTD and FHWA on a multitude of Urban System projects and brings an invaluable knowledge bank to the table.
- Greg Sepeda, PE is Sigma's chief engineer and will oversee the QC/QA of Sigma's design efforts. With an emphasis on linear projects, Greg sees the "big picture" on delivery. He will also assist with contract management, invoicing and scheduling.

#### **Quality Control / Quality Assurance**

Sigma proposes to utilize our currently implemented quality control plan for this contract, which includes DOTD's QA/QC requirements and forms. Built around DOTD's philosophy and internal QA/QC plans, the key components to this plan include communication, redundancy, and application of experience. The first element of our quality control approach is to establish and maintain an open line of <u>communication</u> between all members of the project team and all concerned parties within DOTD. The second element for quality control is applying <u>redundancy</u> throughout the project. This is frequently accomplished by establishing alternate lines of communication, overlapping technical expertise and thorough project documentation. Finally, the 3<sup>rd</sup> component of maintaining quality throughout the project life is <u>the proper application</u> of our expertise and experience\_during all phases of work. We intend to assign key members of our staff to vital roles in each and every phase. In order to balance continuity and redundancy, <u>independent reviews</u> by the Principal-in-Charge are incorporated into every project.

#### **Disadvantaged Business Enterprise Requirement**

Sigma meets the 4% DBE requirement for this project by teaming with Civil Design and Construction, Inc. CD&C is a woman owned business and will perform 100% of the surveying and Right Of Way mapping components of this contract.

#### **Cybersecurity Training**

All members of Sigma who have access to ProjectWise through DOTD have completed the LA Dept. of State Civil Service cybersecurity training. In fact, we have enlisted our entire company to complete the training to promote awareness of cyber threats to both ourselves and our clients.

#### Conclusion

The Sigma Team has experience providing all the elements described in the Scope of Services to DOTD. With our knowledge of DOTD procedures and practices, Sigma can provide the DOTD a staff with an unparalleled depth of hands-on experience, knowledge and desire to serve LADOTD, and perform the services needed within budget and on time.



#### 19. Workload:

| Firm                      | Past<br>Performance<br>Evaluation<br>Disciplines(s)* | State Project<br>Number | Project Name  | Remaining<br>Unpaid<br>Balance** |
|---------------------------|--|-------------------------|---|----------------------------------|
|                           | Survey   |                         | (we have no current survey work with DOTD)                                | \$0                              |
|                           |  | H.014415                | LA 352 Drainage Improvements  | \$27,791                         |
|                           |  | H.004791                | Belle Chasse Bridge & Tunnel Replacement                                  | \$5,307                          |
|                           |  | H.003370                | I-220/I-20 Interchange IMP & BAFB Access                                  | \$30,000                         |
|                           | Road   | H.004100                | I-10: LA 415 to Essen Lane on I-10 and I-12                               | \$1,404,967                      |
|                           |  | H.013797                | LA 30: EBR PL - I-10 (Environmental Assessment)                           | \$92,995                         |
|                           |  | H.010652                | LA 73: US 61 (Airline) – Essen Lane                                       | \$15,330                         |
|                           |  | H.010116                | LA 1088: Soult and Trinity Roundabouts                                    | \$209,364                        |
|                           |  | 4400019338              | Rural Bridge Replacement Initiative Phase II (South)                      |                                  |
|                           |  | H.012061                | LA 1  | \$94,764                         |
|                           |  | H.012565                | LA 963  | \$96,772                         |
|                           |  | H.012891                | LA 300  | \$46,976                         |
|                           |  | H.014213                | LA 700  | \$68,500                         |
| Ciama                     |  | H.014215                | LA 20   | \$104,556                        |
| Sigma                     |  | H.014216                | LA 682  | \$125,388                        |
| Group, Inc.               |  | H.014241                | LA 10   | \$48,845                         |
| oroup,                    | Bridge   | H.014251                | LA 422  | \$58,277                         |
|                           |  | H.014252                | LA 1054   | \$48,076                         |
|                           |  | H.014253                | LA 421  | \$46,625                         |
|                           |  | H.014254                | LA 955  | \$159,748                        |
|                           |  | H.014256                | LA 952  | \$113,068                        |
|                           |  | H.014257                | LA 68   | \$117,539                        |
|                           |  | H.014276                | LA 975  | \$60,995                         |
| <b>SIGMA</b>              |  | H.014278                | LA 85   | \$71,745                         |
| CONSULTING<br>GROUP. INC. |  | H.014279                | LA 35   | \$53,708                         |
| ENGINEERING & SURVETING   | Environmental  | H.004526.5              | Leeville - Golden Meadow (Ph. 2 Permits)                                  | \$213,019                        |
|                           |  | H.002868                | Ambassador Caffery & US 90 Interchange Construction Support               | \$113,762                        |
|                           |  | H.003003                | I-10 (East Jct. I-49 to LA328) Construction Support                       | \$4,312                          |
|                           |  | H.010601                | I-10 (LA328 - LA347) Construction Support                                 | \$255                            |
|                           |  | H.013897                | Owner Verification Services For College Drive Flyover Ramp I-10/I-12 West | \$50,592                         |

#### 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:

|         | Past<br>Performance | State project             |   | Remaining        |
|---------|---------------------|---------------------------|---|------------------|
| Firm(s) | Evaluation          | number                    | Project name  | unpaid           |
|         | Discipline(s) *     |                           |   | balance**        |
| Arcadis | Environmental       | H.002397.2                | LA 16 (Pete's Hwy) Interstate 12 Interchange Route  | \$20,109         |
| Arcadis | Environmental       | H.011328.2                | I-49 South (Ricohoc to Berwick)   | \$807,263        |
| Arcadis | Traffic             | H.011328.2                | I-49 South (Ricohoc to Berwick)   | \$172,040        |
| Arcadis | Road                | H.011328.2                | I-49 South (Ricohoc to Berwick)   | \$344,080        |
| Arcadis | ITS                 | H.013868.5                | ITS Program Management and Operations (2022)  | \$405,062        |
| Arcadis | ITS                 | H.013868.6 (A)            | ITS Routine Maintenance Engineering and Inspection (ME&I) (2022)  | \$499,404        |
| Arcadis | ITS                 | H.013868.6 (B)            | ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I)<br>(2022)  | \$120,369        |
| Arcadis | ITS                 |                           | Purchase Order No. 2000673913 Upgrade of Existing CCTV Camera with New<br>HD CCTV Camera on the I-20 @ Barksdale CCTV Pole in Shreveport, LA;<br>Purchase Order No. 2000673940 US 61 @ Troop A Mini-Split Install;<br>Purchase Order No. 2000673945 NORTMC Security CCTV Maintenance;<br>Purchase Order No. 2000686217 I-110 @72 <sup>nd</sup> St. CCTV Site Repair | \$19,200         |
| Arcadis | CE&I/OV             | H.011220.6-1              | I-10 CBD2 Carrollton-Lafitte Ave and Supplement Nos. 1 & 2  | \$199,049        |
| Arcadis | CE&I/OV             | H.013710.6                | I-10: US 61 to Laplace ITS Deployment   | \$427,823        |
| Arcadis | Traffic             | H.012889.5                | I-20 Rehab (Pines Road to I-220)  | \$105,896        |
| Arcadis | Environmental       | H.009932                  | US 80 Widening: Vancil Road to Well Road Environmental Assessment   | \$5,343          |
| Arcadis | Traffic             | H.003370                  | I-220/I-20 Interchange IMP & BAFP Access Design Build   | \$15,000         |
| Arcadis | Traffic             | H.004100.5                | I-10: LA 415 to Essen Lane on I-10 and I-12   | \$207,682        |
| Arcadis | Bridge              | H.004100.5                | I-10: LA 415 to Essen Lane on I-10 and I-12   | \$381,868        |
| Arcadis | ITS                 | H.004100.5                | I-10: LA 415 to Essen Lane on I-10 and I-12   | \$80,393         |
| Arcadis | Traffic             | H.005121                  | LA 1/LA 415 Connector   | \$105,842        |
| Arcadis | Traffic             | H.972419.1                | SHSP Update and Regional SHSP Marketing/Advertising Support   | \$6 <i>,</i> 957 |
| Arcadis | Road                | H.012901.6,<br>H.010634.6 | US 90Z (Bodenger Blvd. – Stumpf Blvd.)  | \$339,654        |
| Arcadis | Traffic             | H.012018.6                | Adaptive Traffic Signal Design and Implementation   | \$31,594         |
| Arcadis | Traffic             | H.014305.1                | US 61: Cardinal Drive to Bert Street  | \$22,179         |

| Arcadis | Traffic       | H.013797 | LA 30: EBR PL – I-10  | \$459,160 |
|---------|---------------|----------|---|-----------|
| Arcadis | Bridge        | H.000413 | Cross Bayou Bridge Replacement  | \$174,827 |
| Arcadis | Traffic       | H.000413 | Cross Bayou Bridge Replacement  | \$147,318 |
| Arcadis | Environmental | H.012891 | LA 300 at Bayou LaLoutre  | \$7,151   |
| Arcadis | Environmental | H.014215 | LA 20 at 40 Arpent Canal and Drainage Canals                            | \$18,212  |
| Arcadis | Environmental | H.014213 | LA 700 at Indian Bayou and Bayou Grand Marais                           | \$12,483  |
| Arcadis | Environmental | H.014279 | LA 35: Drain Canal Near Lawtell   | \$13,836  |
| Arcadis | Environmental | H.014278 | LA 85: Patout and Drain Canal Bridges                                   | \$18,058  |
| Arcadis | Environmental | H.014276 | LA 975: Creek Bridges   | \$8,204   |
| Arcadis | Environmental | H.014216 | LA 682 at Norris Canal and Unnamed Tributaries                          | \$30,314  |
| Arcadis | Environmental | H.014241 | LA 10 at Mill Creek   | \$11,465  |
| Arcadis | Environmental | H.014251 | LA 422: Bridge Over Unnamed Stream                                      | \$14,828  |
| Arcadis | Environmental | H.012565 | LA 963 at Redwood Creek and Little Redwood Creek                        | \$7,192   |
| Arcadis | Environmental | H.014257 | LA 68 at Karrs Creek  | \$27,629  |
| Arcadis | Environmental | H.014253 | LA 421 at Thom Creek  | \$6,031   |
| Arcadis | Environmental | H.014256 | LA 952 at McKowen Creek and Beaver Creek                                | \$32,217  |
| Arcadis | Environmental | H.014254 | LA 955 at Knighton Bayou, Trib. Olive Branch, White Branch, and Chapman | \$18,268  |
|         |               |          | Branch  |           |
| Arcadis | Environmental | H.012061 | LA 1 at Lateral W15#7A and Bayou Moreau                                 | \$7,827   |
| Arcadis | Environmental | H.014252 | LA 1054 at Tyner Creek  | \$6,057   |

#### 19. Workload:

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

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

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

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

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

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

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

| Firm(s)                                 | Past<br>Performance<br>Evaluation<br>Discipline(s) * | State project<br>number | Project name                              | Remaining<br>Unpaid<br>Balance** |
|---|--|-------------------------|---|----------------------------------|
| Civil Design &<br>Construction,<br>Inc. | Surveying  | 4400017091/<br>TO-2     | LWI Statewide Modeling R5 – Task Order #2 | 6,722                            |
| Civil Design &<br>Construction,<br>Inc. | Surveying  | 4400017091/<br>TO-3     | LWI Statewide Modeling R5 – Task Order #3 | 227,031                          |
|   |  |                         |   |                                  |
|   |  |                         |   |                                  |
|   |  |                         |   |                                  |

(Add rows as needed)

DO NOT SUM

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

\*\* Round to the nearest dollar. **<u>Do not</u>** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

Page 29 of 26 Prime Consultant Name: Civil Design & Construction, Inc.

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

| Alex Farr, PE            | Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 |
|--------------------------|---|
| Ari Deitch, PE, PTOE     | Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 |
| Kester Hollier, PE, PTOE | Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 |

| Robert Lear, PE, LSI                  | ATSSA Traffic Control Supervisor |
|---------------------------------------|----------------------------------|
| Greg Sepeda, PE                       | ATSSA Traffic Control Supervisor |
| Alex Farr, PE                         | ATSSA Traffic Control Supervisor |
| Josh Renard, PE                       | ATSSA Traffic Control Supervisor |
| Derek Wheat, PLS                      | ATSSA Traffic Control Supervisor |
| Kester Hollier, PE, PTOE              | ATSSA Traffic Control Supervisor |
| Jose Rodriguez, PE                    | ATSSA Traffic Control Supervisor |
| Philip Dupree                         | ATSSA Traffic Control Supervisor |
| (Certificates available upon request) |                                  |





















# **PROOF OF TRAINING**

ATSSA TRAINED

THIS CERTIFICATE HEREBY RECOGNIZES THAT

#### Robert J Lear Jr.

has attended

### **Traffic Control Supervisor Refresher-LA State Specific**

**Training Course** 

6/30/2021 to 6/30/2025 **Training Valid Through** 

Baton Rouge, LA

Location

Kannga Srith Director of Training

Alace, Tetachur

President, CEO

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



American Traffic Safety Services Association ATSSA.com





# **PROOF OF TRAINING**

ATSSA TRAINED

THIS CERTIFICATE HEREBY RECOGNIZES THAT

### **Joshua Renard**

has attended

## **Traffic Control Supervisor Refresher-LA State Specific**

**Training Course** 

6/30/2021 to 6/30/2025 Training Valid Through

Baton Rouge, LA

Location

Kannga Snith Director of Training

Alace, Tetachuar

President, CEO

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



American Traffic Safety Services Association ATSSA.com

## The American Traffic Safety Services Association

Hereby recognizes that

Derek Wheat

Traffic Control Supervisor Refresher-LA State Specific

**Training Course** 

9/6/2019 to 9/6/2019 Date

Baton Rouge, LA Location



SAFEH ROADS SAVE LIVES

Xessica Shungler

Training & Products Dept. Director

Ryn A. Wentz

President, CEO

A



Hereby recognizes that

## Kester B Hollier

has attended Traffic Control Supervisor Refresher-LA State Specific

**Training Course** 

<u>9/13/2019</u> to <u>9/13/2019</u> Date

New Orleans, LA Location



Ressica Schuylen

Training & Products Dept. Director Kmn A. Wentz

President, CEO

## The American Traffic Safety Services Association

Hereby recognizes that

Kester Hollier

has attended

**Traffic Control Technician-LA State Specific** 

<u>12/11/2013</u> Date <u>New Orleans, LA</u> Location





Wome M. Clark Training & Products Dept. Director

Ryn A. Wintz President, CEO

| ATSSA<br>BITTE BERKE BAR (ME | AMERICAN<br>SAFETY S<br>ASSOC  | N TRAFFIC   | SLOW |  |
|------------------------------|--|---|------|--|
| Jose<br>Expiration Dated     | This is to a<br>Red<br>has satisfied the<br>to be desig<br>CERTIFIED<br>-31-33 | affirm that<br>e requirement<br>nated as a<br>FLAGGER<br>State based in<br>State based in |      |  |




**<u>21. QA/QC Plan and/or Work Plan:</u>** If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

#### 22. Sub-consultant information:

| Firm Name<br>(as registered with Louisiana's<br>Secretary of State) | Address   | Point of Contact<br>and email address          | Phone Number   |
|---|---|--|----------------|
| Civil Design & Construction, Inc.                                   | 3251 Southern Pacific Road<br>Port Allen, LA 70767    | Karla Weston, PE<br>kweston@cdcbr.com          | (225) 765-1802 |
| Arcadis U.S., Inc.  | 10352 Plaza Americana Drive<br>Baton Rouge, LA  70816 | Akhil Chauhan, PE<br>akhil.chauhan@arcadis.com | (225) 368-6563 |

### 23. Location:

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

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

| Name:                           | Public Address:                            |  |
|---------------------------------|--|--|
| Sigma Consulting Group,<br>Inc. | Mr. Miles B. Williams10305 Airline Highway |  |
|                                 | Baton Rouge, Louisiana 70816               |  |

## License/Certificate Information w/ Supervision

| License    | Status | First Issuance<br>Date | Expiration<br>Date | Supervisor(s)                                      |
|------------|--------|------------------------|--------------------|--|
| EF.0001410 | Active | 08/21/1987             | 09/30/2023         | Mr. Miles Bonner Williams # PE.0023094 -<br>Active |

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

| Name:                           | Public Address:                            |  |
|---------------------------------|--|--|
| Sigma Consulting Group,<br>Inc. | Mr. Miles B. Williams10305 Airline Highway |  |
|                                 | Baton Rouge, Louisiana 70816               |  |

## License/Certificate Information w/ Supervision

| License    | Status | First Issuance<br>Date | Expiration<br>Date | Supervisor(s)                                   |
|------------|--------|------------------------|--------------------|---|
| VF.0000302 | Active | 08/21/1987             | 09/30/2023         | Mr. Derek Schuyler Wheat # PLS.0005213 - Active |