ARCADIS

CONTRACT NOs. 4400025298 AND 4400025299

November 22, 2022

IDIQ CONTRACTS FOR TRAFFIC ENGINEERING STATEWIDE

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Tuesday, November 22, 2022

Louisiana Department of Transportation and Development
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802-4438

Arcadis
10352 Plaza Americana Drive
Baton Rouge, Louisiana 70816
Phone: 225 292 1004
Fax: 225 218 9677
www.arcadis.com

Subject: **Contract Nos. 4400025298 and 4400025299**
IDIQ Contracts for Traffic Engineering, Statewide

Dear Project Evaluation Team,

Arcadis and its teaming partners have provided dedicated and dependable support to the Louisiana Department of Transportation and Development (LADOTD) through the delivery of a wide range of **traffic engineering services for more than 20 years** and have held the most recent traffic engineering and signal design Indefinite Delivery/Indefinite Quantity (IDIQ) contracts with LADOTD. Collectively, our team has **provided such services on over 50 traffic engineering studies and signal design projects in Louisiana** of all scales and complexity. These projects include corridor and intersection studies, Stage 0 feasibility studies, safety studies, pedestrian and bicycle improvement projects, transportation management plans, environmental assessments, signal design and timing projects and roadway and bridge design projects through various project delivery methods.

This experience has allowed us to develop strong working relationships with LADOTD Headquarters and District personnel as well as Local Public Agencies (LPAs) and stakeholders throughout the state, with projects covering Districts 02, 03, 04, 05, 07, 08, 61, and 62.

OUR TEAM

Our teaming partners for this IDIQ were selected for the individual strengths each partner can provide and complimentary team synergy developed through working together on previous projects.

Intelligent Transportation Systems (ITS) brings a depth of LADOTD experience in traffic engineering applications including traffic engineering studies, signal design and inspection, and implementation of adaptive signal control technologies. **Bonton Associates (DBE)** will be providing design expertise for roadway and multi-modal facility designs to support traffic engineering studies through preliminary design, impact assessments, construction cost estimates, etc. Bonton Associates will also provide support for traffic engineering studies. **GRAM Traffic (DBE)** and **Southern Traffic Services (STS)** will provide traffic data collection services.

OUR APPROACH

Our team's approach and methodology, as detailed in Section 18 of our enclosed proposal, is **focused on project-specific scoping** to deliver precisely what each unique project requires in a timely and efficient manner. We will achieve this goal through open communication that is integral to understanding LADOTD's expectations and ensuring that they are consistently met through regular touchpoints.

To successfully deliver this contract, LADOTD requires a team that provides redundancy in experienced traffic engineering and support staff to respond quickly to task order requests and can deliver multiple task orders simultaneously. As a cornerstone to our approach, the Arcadis Team offers a deep bench of experienced professionals that provide **redundancy in all aspects of this IDIQ contract**.

In addition to the team members presented in this proposal, the Arcadis Team includes a range of experienced local and regional resources that can be utilized as needed to **deliver multiple task orders simultaneously** under this IDIQ, while meeting project schedules and effectively managing overall team workload.

OUR EXPERIENCE

Subject Matter	Team Expertise
Traffic Engineering Studies	• Highest past performance ratings for LADOTD traffic and safety **(4.5/5)** projects. • Intimately familiar with LADOTD's Traffic Engineering Process and Report (TEPR) – **20 staff** with TEPR Training. • Highly experienced with the application of Highway Capacity Manual methods and analysis tools including Highway Capacity Software, Synchro, Sidra, as well as advanced modeling techniques using Vissim (microsimulation modeling), and Dynameq (mesoscopic modeling).
Traffic Signal Design and Timing	• Familiarity with applicable design guidelines including LADOTD Signal Manual, Traffic Signal Inventory, Traffic Signal Details and Manual on Uniform Traffic Control Devices. • Experienced with design and implementation of adaptive signal control technology.
Stage 0, Planning and Environmental	• Extensive experience preparing Stage 0 feasibility studies to inform decision making and National Environmental Policy Act (NEPA) documents for environmental clearance. • Understanding of how transportation projects affect the natural and built environment and how to avoid/minimize/mitigate impacts through innovative design. • Understanding of regulatory agency primary concerns and "hot-button" issues.
Roadway Design	• In-depth experience with LADOTD roadway **(past performance rating – 3.9/5)** design guidelines and manuals, and multimodal facility design and best practices. • Local professionals with access to technical experts across the country having completed design for state DOTs in the southeast.

OUR STRENGTHS

At Arcadis, we are **dedicated to innovative solutions** that make our client's jobs easier and facilitates successful project delivery with access to industry leading expertise and technologies that make this a reality. Our innovative project delivery tools that will be made accessible to LADOTD include **interactive data dashboards** that simplify analysis of complex data sets through intuitive visualization thus, saving time traditionally spent wading through hard to read spreadsheets. Our experienced and dedicated team, led by Akhil Chauhan, is knowledgeable with these tools and will bring a laser sharp focus on scope, schedule, quality, and budget to ensure projects are delivered on-time for the agreed upon fee.

OUR MOTIVATION

Improving quality of life is our motivation and is at the forefront of every project we deliver. For traffic engineering studies and design projects, that means only progressing **operationally efficient, safe, cost-effective, and constructible alternatives** that promote mobility and sustainability for the environment and communities they serve. We look forward to the opportunity to continue partnering with LADOTD to improve the mobility, safety, service, and reliability of Louisiana's transportation system. Thank you for your time and consideration.

Sincerely,

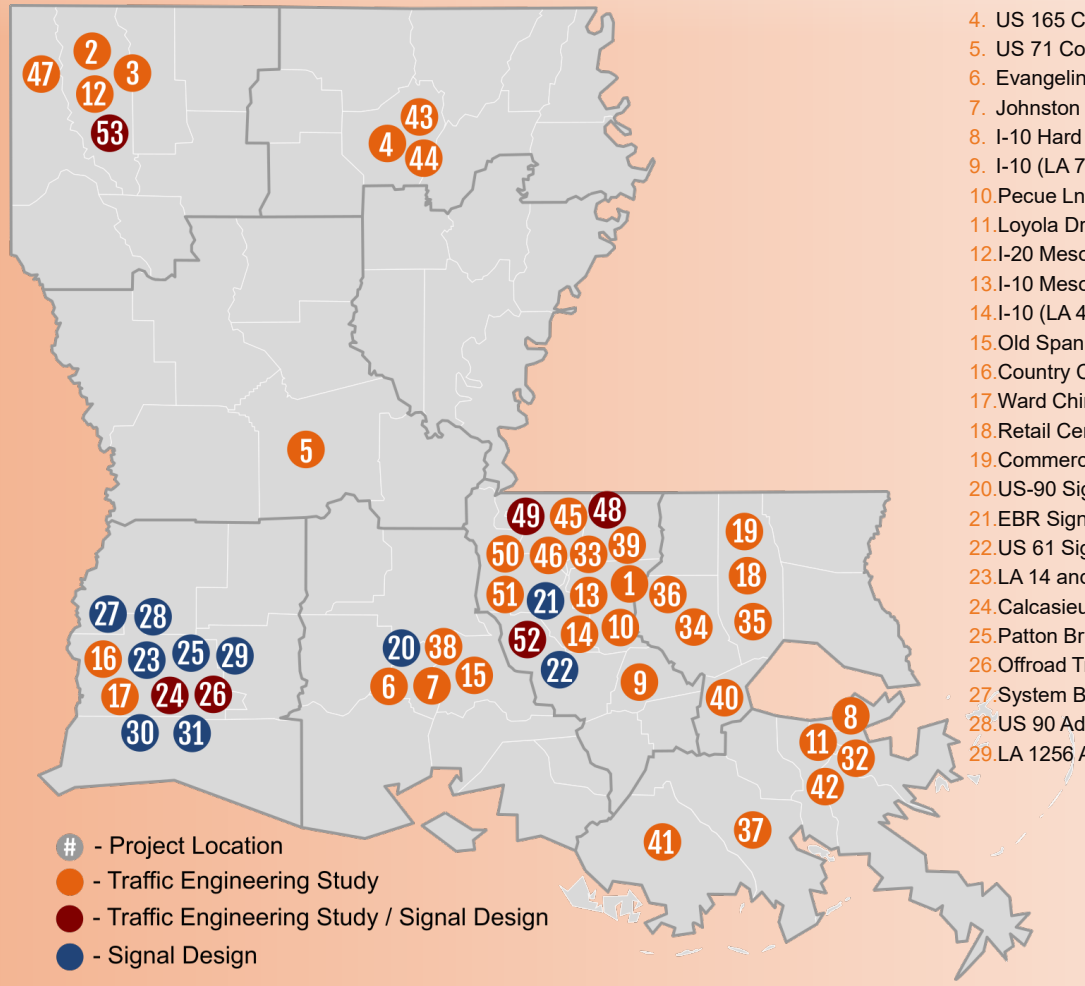
Akhil Chauhan PE, PTOE, PTP, PMP
Contract / Project Manager
Principal Engineer

Marwan Abboud, PE
Principal-in-Charge
National Traffic Engineering Practice Lead

Sections

1-11

The Arcadis Team has Provided Traffic Engineering Services for over 50 Traffic Engineering Study and Signal Design Projects in Louisiana in Districts 02, 03, 04, 05, 07, 08, 61, and 62



1. US 61 Corridor Traffic / Access Management Study[1]
2. LA 3105 Corridor Traffic Study[1]
3. LA 157 Corridor Traffic Study[1]
4. US 165 Corridor Traffic Study[1]
5. US 71 Corridor Traffic Studies (Phases 1-3)[1]
6. Evangeline Thwy / Johnston St Intersection Study[1]
7. Johnston St / Ambassador Caffery Intersection Study[1]
8. I-10 Hard Shoulder Running (HSR) Traffic Study[1]
9. I-10 (LA 73 to LA 429) Traffic Study[1]
10. Pecue Ln at I-10 Interchange Model Review[1]
11. Loyola Drive at I-10 Interchange Model Review[1]
12. I-20 Mesoscopic Model and TMP[1]
13. I-10 Mesoscopic Model[1]
14. I-10 (LA 415 to Essen Lane) Traffic Data Collection[1]
15. Old Spanish Trail Traffic Study
16. Country Club Road Traffic Study
17. Ward Chiropractic Traffic Study
18. Retail Center Traffic Study
19. Commercial Development Traffic Study
20. US-90 Signal Timing Upgrades[2]
21. EBR Signal Design and Detection Upgrades[2]
22. US 61 Signal Design
23. LA 14 and US 171 Adaptive Signal Design
24. Calcasieu Point Traffic Study / Signal Design
25. Patton Bridge Replacement Signal Design
26. Offroad Truck Crossing Traffic Study / Signal Design
27. System B (LA 108) Adaptive Signal Design
28. US 90 Adaptive Signal Design
29. LA 1256 Adaptive Signal Design
30. Driftwood LNG Adaptive Signal Design
31. System A (LA 378) Adaptive Signal Design
32. New Orleans Pedestrian Safety Study[3]
33. Baton Rouge Ped / Bike Road Safety Assessments[3]
34. Joe Sevario / Roddy Rd Roundabouts Safety Study[3]
35. LA 21 at US 190 Roundabout Safety Study[3]
36. LA 44 Roundabouts Traffic / Safety Study[3]
37. LA 3235 Corridor Traffic / Safety Study[3]
38. I-49 Interchange Traffic / Safety Study[3]
39. I-12 Hard Shoulder Running (HSR) Study[3]
40. US 61 (Laplace) Corridor Traffic Study[3]
41. LA 3040 Corridor Traffic Study[3]
42. Florida Avenue Expressway Traffic Study
43. LA 594 Millhaven Traffic Study
44. I-20 Frontage Development Traffic Study
45. Burbank Access Management Study
46. Highland-Burbank Connector
47. Cross Bayou Bridge Traffic Study
48. Lee Drive Traffic Study / Signal Design
49. Bluebonnet Blvd Traffic Study / Signal Design
50. Scenic Highway Traffic Study
51. Terrace Avenue Traffic Study
52. I-10 CMAR IMR Traffic Study / Signal Design
53. I-20 / I-220 DB IMR Traffic Study / Signal Design

[1] *Completed under LADOTD Traffic Engineering IDIQs*
[2] *Completed under LADOTD Traffic Signal Design IDIQ*
[3] *Completed under LADOTD Safety Studies IDIQs*

DOTD FORM: 24-102

(Revised March 1, 2022)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1. Contract title as shown in the advertisement	IDIQ CONTRACTS FOR TRAFFIC ENGINEERING STATEWIDE
2. Contract number(s) as shown in the advertisement	CONTRACT NOs. 4400025298 AND 4400025299
3. State Project Number(s), if shown in the advertisement	STATE PROJECT NO. N/A F.A.P. NO. N/A
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	ARCADIS ARCADIS U.S., INC.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0002808 DUNS 057690414
6. Prime consultant mailing address	10352 Plaza Americana Drive Baton Rouge, LA 70816
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	10352 Plaza Americana Drive Baton Rouge, LA 70816
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Akhil Chauhan, PE, PTOE, PTP, PMP Principal Engineer P. 225 368 6563 | E. akhil.chauhan@arcadis.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Akhil Chauhan, PE, PTOE, PTP, PMP Principal Engineer P. 225 368 6563 | E. akhil.chauhan@arcadis.com
10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal,	

proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 Akhil Chauhan, PE, PTOE, PTP, PMP Date: November 22, 2022
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): Firm(s)' %: Bonton Associates (DBE) 5% GRAM Traffic (DBE) 2%

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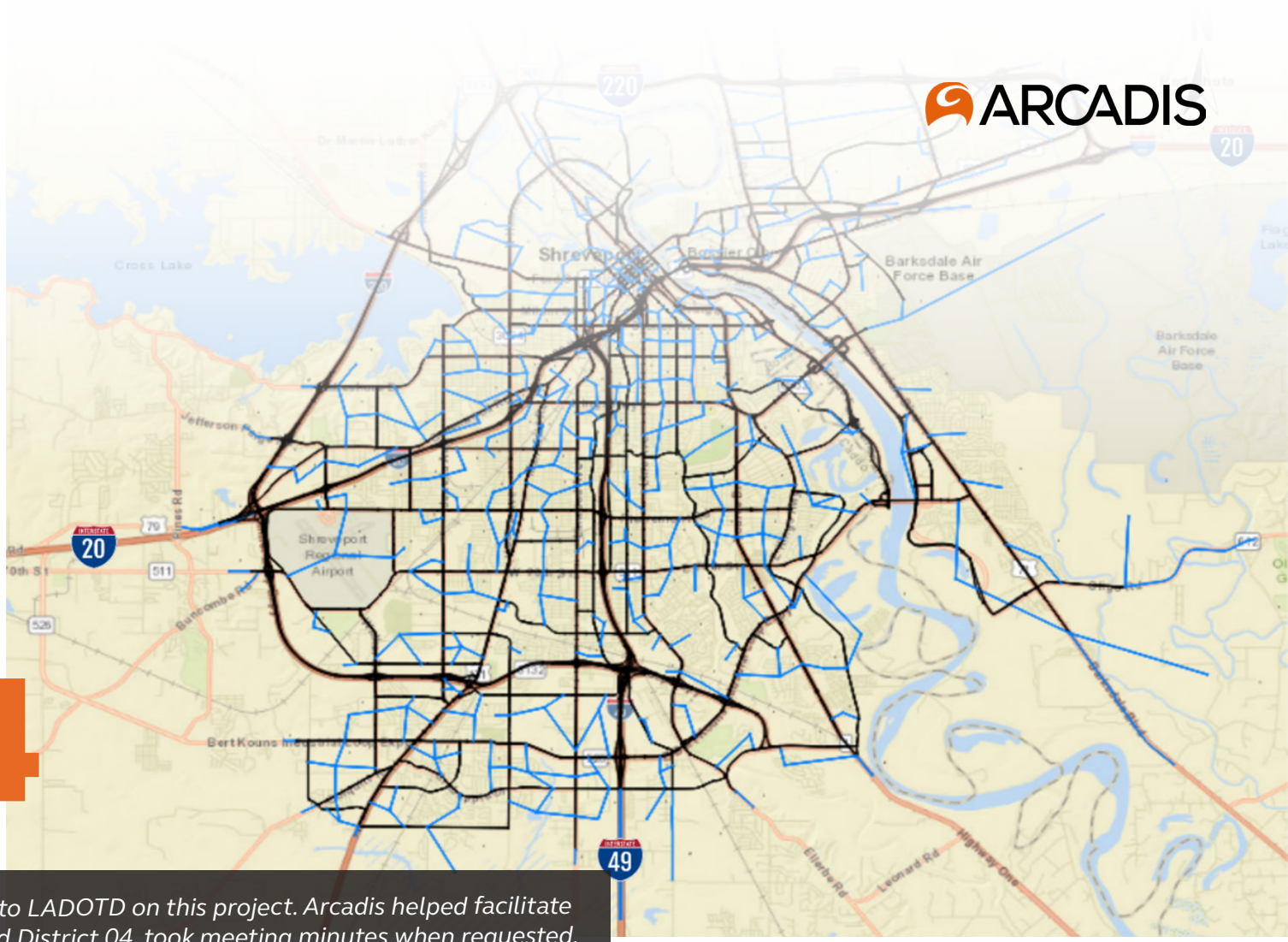
ARCADIS



Sections

12-14

"Arcadis was an outstanding partner to LADOTD on this project. Arcadis helped facilitate discussions between LADOTD HQ and District 04, took meeting minutes when requested, and went above and beyond their duties to deliver the TMP. Several changes were incorporated into the project as design work progressed (due to requests from District), including changes to the limits of construction, adding ramp rehabilitation, and changes to final pavement types. Arcadis was able to incorporate all changes into the TMP in a timely manner and updated technical analysis (including re-running mesoscopic model) as required to satisfy LADOTD and FHWA requirements. This project also had the first use of new specifications for a "Smart Workzone" System. Arcadis offered technical expertise and a willingness to provide advice and guidance to LADOTD to help complete this portion of the design even though it was not part of their scope."

- *Hadi Shirazi,* LADOTD Project Manager for I-20 Meso model and TMP project

Traffic Engineering IDIQ - I-20 TMP
Mesoscopic Model Developed using Dynameq

12. Past Performance Evaluation Discipline Table:

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

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

Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 19 of the DOTD Form 24-102*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

Evaluation Discipline(s)	% of Overall Contract	Arcadis	ITS	Bonton Associates (DBE)	GRAM Traffic (DBE)	Southern Traffic Services
Traffic*	85%	75%	18%	2%	2.5%	2.5%
Planning	10%	90%	0%	10%	0%	0%
Road	5%	50%	0%	50%	0%	0%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	100%	75.5%	15.5%	5%	2%	2%

**Traffic Evaluation Discipline involves both Traffic (70%) and Safety (15%) services*

13. Firm Size:

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

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
ARCADIS	Principal	4	6
	Supervisor Engineer	5	9
	Supervisor-Other	1	1
	Engineer	5	8
	Engineer-Other	2	4
	Engineer Intern	2	4
	Professional	2	3
	Engineering Aide	1	1
	Planner	2	3
	Environmental Manager	1	1
	Environmental Professional	1	4
	Biologist/ Wetlands	1	2
	GIS Analyst	1	3
	CADD Technician	1	2
	Senior Technician	1	2
INTELLIGENT TRANSPORTATION SYSTEMS®	Principal	1	2
	Supervisor Engineer	2	2
	Engineer	1	2
	Engineer Intern	1	1
	Technician	0	8
	Other	0	2
BONTON ASSOCIATES	Principal	1	3
	Engineer	2	4
	Engineer Intern	2	3

GRAM Traffic Counting INC	Supervisor-Other	1	1
	Senior Technician	1	2
	Technician	1	2
	Clerical	1	2
STS Southern Traffic Services A Rekor Systems Subsidiary / REKOR INTELLIGENCE DRIVEN INNOVATION	Engineer	1	1
	Supervisor Other	1	2
	Senior Technicians	3	10

(Add rows as needed)

14: Organizational Chart

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Legend:
Arcadis[1]
ITS LLC[2]
Bonton[3]
GRAM Traffic[4]
STS-Rekor[5]
Meeting TEPR Requirement*
Workzone Training◆

Principal-in-Charge

Marwan Abboud, PE[1]

Contract / Project Manager

Akhil Chauhan, PE, PTOE, PTP, PMP[1]*

Task Order Managers

Ari Deitch, PE, PTOE, PTP, RSP[1]*

Kester Hollier, PE, PTOE[1]*◆

Technical Advisors and QA/QC

Traffic Engineering Studies & Design:
Thomas Montz, PE, PTOE, PTP[1]*◆

Safety:
Jonathan Reid, PE, PTOE, RSP[1]

Stage 0 / Planning / Environmental
Jan Hughes[1]

Roadway
Buddy Porta, PE[1]

Safety

Jose M. Rodriguez, RSP[1]*
Ari Deitch, PE, PTOE, PTP, RSP[1]*
Jody Peace, PE, PTOE, RSP[1]
Justin Maderia, PE, PTOE, PTP[1]*
Max Aguirre, PhD, PE, PTOE, RSP[1]*◆
Kwaku Boakye, PE, PTOE, RSP[1]
Joshua Cook, EI[1]

Traffic Signal Design & Timing

Kester Hollier, PE, PTOE[1]*◆
Jonathan Fox, PE, PTOE, PMP[2]*◆
Diane Hammonds, PE, PTOE, RSP[2]*◆
Tony Moore, PE, IMSA II[1]*
Clarke Chauvin, PE, PTOE, IMSA II[2]*◆

Traffic Signal Inventory

Jonathan Fox, PE, PTOE, PMP[2]*◆
Jeff Jones, IMSA II[1]◆
Tony Jackson, IMSA III[1]◆
Clarke Chauvin, PE, PTOE, IMSA II[2]*◆

Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)

Ari Deitch, PE, PTOE, PTP, RSP[1]*
Kimberly McDaniel, PE, PTOE, PTP[2]*
Diane Hammonds, PE, PTOE, RSP[2]*◆
Kester Hollier, PE, PTOE[1]*◆
Skyler Waaso, PE, PTOE[1]*
Justin Maderia, PE, PTOE, PTP[1]*
Sridhar Basetty, PE, PTOE, PTP[1]
Ladarien Beene, PE, PTOE[3]* ◆
Max Aguirre, PE, PTOE, RSP[1]*◆
Meredith Guidry, EI, RSP[1]*
Colin Francis, EI[2]*
Shafia Nazneen[1]*

Traffic Data Collection

Justin Smith[5]
Joel Ponder[5]
Randall Smith[4]
Stacie Bittner[4]

Aerial Photography / GIS / CADD

Josh Chatelain[1]
Sothon Men[1]

Stage 0 / Planning / Environmental

Julie Price, AICP[1]
Thomas Brown,RLA, ASLA[1]
Jason Morrell, PWS[1]*
Jayun Thibodeaux[1]

Roadway Design

Jose L. Rodriguez, PE[1]◆
David Fulks, PE[1]
Garret Keller, PE[1]
Marcus Bonton, PE[3]◆
Ladarien Beene, PE, PTOE[3]*◆
Kiran Girung, EI[3]

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ARCADIS

Sections 15-16

"The consultant has been overly prepared for kickoff and all intermediate meetings while providing documentation for all decisions made. Arcadis has completed all required data collection and analysis in a timely and organized manner. All analyses submittals have been clear and easy to read/understand with all assumptions stated. Additionally, the consultant realized that due to the complexity of this particular corridor, VISSIM had to be used to analyze the existing no build and future conditions. With that, Arcadis analyzed the LA 3105 study area in VISSIM at no extra charge. Any concerns/comments DOTD may have had were efficiently addressed. Arcadis has provided alternatives that are constructible and make sense. The consultant came over prepared for the Stakeholder and Public meeting. The presentation boards, conceptual alternative layouts, and VISSIM video for the public meeting expertly explained all of the essential points of the study clearly and effectively."

- Czarina Patolilic, LADOTD Project Manger, LA 3105 Corridor Traffic Study

Traffic Engineering IDIQ - LA 3105 Corridor Traffic Study

15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR *(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)*	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
1	Marwan Abboud, PE *(35+ years' experience)*	ARCADIS	PE	LA	PE. 34657 09/30/2023
2	Akhil Chauhan, PE, PTOE, PTP, PMP *(20 years' experience)*	ARCADIS	PE	LA	PE. 33703 09/30/2024
3	Akhil Chauhan, PE, PTOE, PTP, PMP *(20 years' experience)*	ARCADIS	PE	LA	PE. 33703 09/30/2024
	Thomas Montz, PE, PTOE, PTP *(15 years' experience)*	ARCADIS	PE	LA	PE. 39128/ 09/30/2024
4	Kester Hollier, PE, PTOE *(18 years' experience)*	ARCADIS	PE, PTOE	LA, US	PE. 34304 03/31/2023 PTOE: 3928/ 11/2024
	Ari Deitch, PE, PTOE, PTP, RSP *(10 years' experience)*	ARCADIS	PE, PTOE	LA, US	PE. 41842/ 3/31/2024 PTOE: 4346/ 11/2023
	Justin Maderia, PE, PTOE, PTP *(17 years' experience)*	ARCADIS	PE, PTOE	LA, US	PE. 38492/ 3/31/2024 PTOE: 3455 / 07/2024

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR *(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)*	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
4	Sridhar Basetty, PE, PTOE, PTP *(19 years' experience)*	ARCADIS	PE, PTOE	LA, US	PE.0038950/ 09/30/2024 PTOE: 3682 / 12/2023
	Skyler Waaso, PE, PTOE *(13 years' experience)*	ARCADIS	PE, PTOE	LA, US	PE.0039070/ 09/30/2024 PTOE: 4600/ 03/2025
	Jonathan Fox, PE, PTOE, PMP *(20 years' experience)*	Intelligent Transportation Systems®	PE, PTOE	LA, US	PE. 33277 9/30/2023 PTOE: 2329 / 11/2025
	Diane Hammonds, PE, PTOE, RSP *(17 years' experience)*	Intelligent Transportation Systems®	PE, PTOE	LA, US	PE. 40749/ 9/30/2024 PTOE: 7113 / 12/2025
	Kimberly D. McDaniel, PE, PTOE, PTP *(19 years' experience)*	Intelligent Transportation Systems®	PE, PTOE	LA	PE. 32973/ 09/30/2023 PTOE: 2072 / 10/2025
	LaDarien Beene, PE, PTOE *(9 years' experience)*	BONTON ASSOCIATES	PE, PTOE	LA, US	PE. 45333/ 9/30/2023 PTOE: 5062 / 08/2024
5	Justin Smith *(15 years' experience)*	STS Southern Traffic Services A Rekor Systems Subsidiary / REKOR INTELLIGENCE DRIVEN INNOVATION	N/A	N/A	N/A
	Joel Ponder *(20 years' experience)*	STS Southern Traffic Services A Rekor Systems Subsidiary / REKOR INTELLIGENCE DRIVEN INNOVATION	N/A	N/A	N/A

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR *(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)*	Firm employed by	Type of license / certification & number	State of license	License / certification expiration date
6	Jose L. Rodriguez, PE *(25 years' experience)*	ARCADIS	PE	LA	PE. 30492 03/31/2023
	David Fulks, PE *(27 years' experience)*	ARCADIS	PE	LA	PE. 30151 09/30/2024
	Marcus Bonton, PE *(14 years' experience)*	BONTON ASSOCIATES	PE	LA	PE. 40389 03/31/2024

PERSONNEL RESUMES

CONTRACT LEADERSHIP

16. Staff Experience:

Firm employed by	ARCADIS		Meets MPR No. 2 & 3
Name	Akhil Chauhan, PE, PTOE, PTP, PMP	Years of relevant experience with this employer	14
Title	Principal Traffic and Safety Engineer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		MS / 2003 / Transportation Engineering, Massachusetts Institute of Technology BS / 2001 / Civil Engineering, Indian Institute of Technology	
Active registration number / state / expiration date		PE.033703 / LA / Exp. 09/2024; PTOE #2544 / USA / Exp. 11/2023 PTP #246 / USA / Exp. 12/2024; PMP #1444676 / USA / Exp. 08/2023	
Year registered	2008	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Contract / Project Manager	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Chauhan is a Principal Traffic Engineer with over 20 years of applied research and industry experience in the fields of traffic engineering, traffic modeling and simulation, transportation planning, demand modeling/forecasting, intersection/corridor analysis, warrant analysis, signal design, safety studies, and access management. Akhil has successfully led, managed, and mentored numerous projects and personnel related to transportation modeling, simulation, and planning for public agency clients located across the nation including several state Departments of Transportation. He is proficient in the use of many macro-, meso-, and microscopic traffic simulation software programs such as Highway Capacity Software, Vistro, Synchro, Sidra, Vissim, MITSIM, Dynameq, DynaMIT, TransCAD, Visum, and OREMS. **Mr. Chauhan Meets MPR #2 and #3, and has completed the LADOTD Traffic Engineering Process and Report Training.**
08/13 – 01/20	**Traffic Engineering IDIQ Contracts, LADOTD, Statewide, LA.** *Contract/Project Manager.* Provided contract management and served as lead technical advisor for task orders issued under two traffic engineering IDIQs. Services provided included a range of traffic engineering services including ***traffic data collection***, ***intersection and corridor studies***, ***traffic modeling***, ***signal warrant analysis and timing optimization***, alternative development and conceptual design, ***signal design***, ***traffic signal inventory***, and safety analysis / improvements. Arcadis developed the first ***mesoscopic models using Dynameq*** for the state of Louisiana.
12/16 – 02/20	**Traffic Signal Engineering IDIQ, LADOTD, Statewide, LA.** *Contract/Project Manager.* Provided contract management and served as lead technical advisor for task orders issued under this IDIQ. Serviced provided included a range of traffic engineering services including ***traffic data collection***, ***traffic modeling and analysis***, ***signal timing optimization***, ***traffic signal inventory***, ***traffic signal design plans***, construction ***cost estimates***, and quantities.
11/20 – Ongoing	**I-10 CMAR – Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA.** *Contract/Project Manager.* Responsible for contract manager and technical advisory of all ***traffic engineering*** tasks including development of permanent signing plans, ***signal design and timing plans***, ***Interchange Modification Reports***, and ***Transportation Management Plans*** for the widening of Interstate-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a ***calibrated mesoscopic model using Dynameq*** to determine the impacts during construction and mitigations that will be necessary to minimize delay.
08/14 – 03/21	**Safety Studies IDIQ Contracts, LADOTD, Statewide, LA.** *Contract/Project Manager.* Provided contract management and served as lead technical advisor for task orders issued under two safety studies IDIQs. Services provided included a range of engineering

	services including ***safety and traffic studies***, historical crash analysis, collision diagram development, identification of safety deficiencies, ***traffic data collection***, development of safety countermeasures, Highway Safety Manual predictive methods, ***Stage 0 feasibility studies and documentation***, ***traffic modeling and analysis***, ***intersection and corridor studies***, and access management improvements.
01/18 – Ongoing	Traffic Engineering IDIQ - I-20 Mesoscopic Model and TMP Using Dynameq, LADOTD, Bossier Parish, LA. *Contract Manager.* Responsible for supervising development of ***mesoscopic traffic model using Dynameq*** to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, ***safety analysis***, ***operational analysis***, assistance with public outreach, development of a ***Level 4 TMP***, and development of work zone mitigation strategies.
06/19 – 12/19	Traffic Signal Design IDIQ - EBR Signal Upgrades and Design, LADOTD, East Baton Rouge Parish, Louisiana. *Contract Manager*. Responsible for technical oversight and supervision of the ***development of design and timing plans for upgraded signal detection*** at 39 signalized intersections from video detection systems to wireless vehicle detection systems (magnetometers).
01/14 – Ongoing	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. *Principal Engineer.* Responsible for contract management and deliverables for the project which included ***traffic and safety analysis, signal timing and warrant analysis,*** alternative screening and analysis, preliminary raodway and bridge design, line and grade, Interchange Modification Report, and Environmental Assessment. Purpose of the project is to improving operations and safety along Range Avenue.
04/13 – 12/13	LA 1 at Rondinaud Lane Signal Upgrades, City of Donaldsonville, Ascension Parish, LA. *Project Manager*. Produced ***traffic signal design and timing plans and traffic signal inventory (TSI)*** forms according to LADOTD standards. The signal modification was necessary as a new approach was added to the intersection of LA 1 at Rondinaud Lane. The updated signal required new timing parameters, intersection sketches, wiring diagrams, quantity estimates, and logging signal modifications.
08/14 – 05/15	Highland-Burbank Connector, City of Baton Rouge - Green Light Program, East Baton Rouge Parish, LA. *Project Manager.* Responsible for design study to evaluate north-south connector and capacity and access management improvements. Alternatives considered restricted intersection types in addition to conventional treatments. Conducted ***signal warrant analysis*** and developed ***signal timings and design plans, including cycle lengths, green times, and clearance intervals***.
04/16 – 09/18	Safety Studies IDIQ - New Orleans Pedestrian Safety Improvements and Design, LADOTD, Orleans Parish, LA. *Principal Engineer*. Preparation of ***Stage 0 feasibility study*** (in accordance with LADOTD Stage 0: Manual of Standard Practice) of 20 intersections with high occurrence of pedestrian safety issues - especially between motorized and non-motorized travel modes. Scope of services include ***data collection*** (for both vehicles and pedestrians), ***analysis of existing traffic conditions***, ***signal warrant analysis***, ***historic crash data evaluation***, investigation of safety deficiencies at each intersection, recommendation of traffic and safety improvements such as ***traffic signal timing improvements***, intersection striping improvements, signing improvements, lighting improvements, sidewalk/crosswalk improvements, curb extensions, traffic calming, ADA compliance including curb ramps, and parking modifications.
05/19 – 11/22	I-20/I-220 Interchange Improvements and BAFB Access Design-Build, LADOTD, Bossier Parish, LA. *Principal Engineer.* Responsible for overseeing the development of addendum to ***Interchange Modification Report***, ***Transportation Management Plan***, temporary ***sign timing and design plans***, Temporary Traffic Control Plans, and Permanent Signing Plans to accommodate the design and construction of the project. The design-build project includes the modification of the existing interchange at I-20/I-220 with additional ramps and extension of I-220 to provide access to Barksdale Air Force Base.

Firm employed by	ARCADIS		Meets MPR No. 4
Name	Ari Deitch, PE, PTOE, PTP, RSP	Years of relevant experience with this employer	8
Title	Senior Traffic and Safety Engineer	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		BS / 2012 / Biological Engineering, Louisiana State University	
Active registration number / state / expiration date		PE.0041842 / LA / Exp. 03/2024; PTOE #4346 / USA / Exp. 11/2023 PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 12/2024	
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Task Order Manager, Traffic Modeling and Studies, Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Deitch is a Senior Traffic Engineer and Project Manager specializing in traffic engineering studies and design, traffic safety, transportation management, and conceptual roadway design. Mr. Deitch has experience managing and working on a wide range of transportation projects for LADOTD, and other DOTs and municipalities across the country, pertaining to intersection and corridor studies, signal warrant analysis, access management, pedestrian and bicycle improvements, complete streets, transportation management plans, Stage 0 feasibility studies, NEPA studies, signal design, and signing and marking design. He has experience with traffic analysis software's and methods and is proficient in Highway Capacity Software, Synchro, Vistro, Vissim, Sidra and MicroStation software. **Mr. Deitch meets MPR #4 and has completed the LADOTD Traffic Engineering Process and Report Training.**
02/15 – 09/18	**Traffic Engineering IDIQ - US 71 Corridor - Phase II and III Traffic and Safety Corridor Study, LADOTD, Rapides Parish, LA.** *Project Manager.* Responsible for overseeing and managing project tasks including ***traffic data collection***, ***signal warrant analysis***, ***traffic analysis***, ***crash analysis***, ***alternative and countermeasure development***, ***predictive safety analysis***, and ***conceptual drawings***.
08/19 – 02/20	**Traffic Engineering IDIQ - US 61 Access Management and Corridor Study, LADOTD, East Baton Rouge Parish, LA.** *Senior Traffic Engineer.* Project purpose was to evaluate the effectiveness of proposed ***access management improvements*** along US 61 and identify feasible alternatives to maximize operational and safety benefits. Provided technical oversight for ***traffic analysis*** using Highway Capacity Software 7, ***signal warrant analysis***, and ***predictive safety analysis***. Assisted with the development of ***construction cost estimates*** and ***benefit-cost analysis***.
02/15-01/18	**Traffic Engineering IDIQ - LA 3105 (Green Acres to LA 72) Corridor Study, LADOTD, Bossier Parish, LA.** *Traffic Engineer.* Responsible for development/evaluation of existing and future year conditions using a ***calibrated microsimulation model (Vissim)***. Designed alternatives for phased implementation based on identified needs and input from local stakeholders including medians, restricted intersections, roundabouts, roadway widening, and ***signal timing enhancements***.
04/19 – 12/19	**Traffic Signal Design IDIQ - EBR Signal Upgrades and Design Plans, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer of Record.* Responsible for supervisory tasks and oversight of this project involving ***field signal inventory*** and the creation of updated ***signal design plans and quantities*** for 39 intersections in East Baton Rouge Parish.
04/16 – 09/18	**Safety Studies IDIQ - New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA.** *Project Manager.* Responsible for assessing existing and future safety deficiencies related to pedestrian and bicycle modes and ***selecting safety countermeasures for 20 high-risk locations***. Developed ***design drawings*** for proposed short-term and long-term improvement phases and conducted ***benefit-cost analysis*** to inform project prioritization. Conducted safety analysis using ***Highway Safety***

	Manual predictive methods. Organized and lead project stakeholder meetings to review alternatives, obtain feedback, and develop ***context sensitive solutions***. Completed ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists*** for all 20 intersections.
07/14 – Ongoing	Pete's Highway Traffic Study 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.
02/15 – 11/17	Traffic Engineering IDIQ - Intersection Feasibility Study - Evangeline Thwy, Johnston St, & Louisiana Ave, LADOTD, Lafayette Parish, LA. *Traffic Engineer:* Responsible for ***review of existing crash data, traffic operations analysis, signal warrant 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 ***improve safety and mobility***. 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.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer:* Responsible for wide range of ***traffic engineering*** tasks including development of permanent signing plans, ***traffic operations analysis***, ***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.
08/14 – 06/15	Safety Studies IDIQ - LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA. *Traffic Engineer*. Responsible for review of existing ***crash data*** and ***traffic operations analysis***, development of ***safety countermeasures***, conceptual drawings, ***signal warrant analysis and timing plans***. and ***Stage 0 documentation***. Purpose of the project was to develop ***access management strategies*** and roadway improvements that will maintain and improve mobility, improve safety, support existing and future development along the LA 3235 corridor. Safety performance of alternatives was estimated using ***Highways Safety Manual predictive methods***.
04/16 – 10/19	Safety Studies IDIQ - 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 (Vissim)*** to evaluate the operational performance of HSR and HOV lane alternatives. Developed ***conceptual drawings*** and ***construction cost estimates*** to evaluate the ***feasibility*** of proposed alternatives.
02/17 – 02/18	Safety Studies IDIQ - I-49 Interchange Stage 0 Safety Feasibility Study, LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Responsible for ***data collection and analysis***, ***traffic and safety analysis***, and ***conceptual design drawings***. Purpose of the project was to identify ***feasible improvement alternatives*** to address historical safety issues along the I-49 corridor and at 3 interchanges. Participated with meetings with LADOTD HQ and District 03 team members to understand project needs and develop context sensitive solutions.

Firm employed by	ARCADIS		Meets MPR No. 4
Name	Kester Hollier, PE, PTOE	Years of relevant experience with this employer	2
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization		BS / 2004 / Civil Engineering, Louisiana Tech University	
Active registration number / state / expiration date		PE.034304 / LA / Exp. 03/2023; PTOE #3928 / USA / Exp. 11/2024	
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Task Order Manager, Traffic Signal Design & Timing, Traffic Modeling & Studies	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Hollier possesses a wide breadth of experience in traffic engineering studies and design including feasibility studies, intersection and corridor traffic studies, signal timing and design, roadway design, complete street improvement projects, traffic modeling and analysis, transportation safety, and construction management and inspection. Working on a wide variety of projects from the planning and conceptual phases to the design and construction phases, has given him the experience to help identify the needs and requirements for projects. This experience allows him to understand stakeholders ranging from local public agencies to state DOTs and helps provide expertise in achieving successful solutions for a variety of projects. **Mr. Hollier meets MPR #4 and has completed LADOTD Traffic Engineering Process and Report Training.**
11/20 – Ongoing	**I-10 CMAR – Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA.** *Project Manager.* Responsible for traffic engineering tasks including development of ***permanent signing plans, traffic signal plans, interchange modification reports, and transportation managemnet plans*** for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive ***historical crash and safety analysis*** is being performed in support of the IMR and TMP. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a calibrated mesoscopic model to determine the impacts during construction and mitigations that will be necessary to ***minimize delay***.
09/12 – 02/16	**Stage 0 Traffic Study and Stage 1 EA for Replacing Belle Chasse Tunnel and Bridge, LADOTD, Plaquemines Parish, LA.** *Lead Traffic Engineer*. Responsible for the ***feasibility study*** and ***traffic analysis*** along LA 23 (Belle Chasse Highway) between LA 428 (Behrman Highway) and LA 406 (Woodland Highway) for multiple 6-lane bridge alternatives that will be proposed to replace the existing Belle Chasse Tunnel and lift bridge over the Intercoastal Waterway. These alternatives included 3%, 4%, and 5% bridge grades that modified roadway geometry and intersection location. Responsible for the review of the roadway portion and costs for the ***Line and Grade Study*** along with the review of the construction sequencing and traffic maintenance of the constructability review.
11/17 – 07/20	**LA 466 (5th Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA.** *Project Manager / Senior Traffic Engineer*. Responsible for the ***traffic study and impacts*** 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 future traffic analysis for proposed final alternative. The traffic study was prepared to follow the Louisiana Department of Transportation and Development's ***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 / Senior 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***.
05/14 – 08/20	Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA. *Senior Traffic Engineer*. Responsible for the design of traffic control and construction sequencing, ***pavement marking layout***, quantity analysis, ***cost estimates***, and quality control for a new interchange at LA 3139 (Earhart Expwy.) and LA 3046 (Causeway Blvd.) in Jefferson Parish, LA. Provided review for the ***interchange traffic sign*** and ***traffic signal timings and design.*** Identified all necessary ***design waivers and design exceptions*** required for LADOTD approval. Provided ***geometric layout design***, ***typical section design*** and review, and joint layout design for several interchange ramps and underpasses.
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.***
10/18 – 01/19	LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. *Senior Traffic Engineer*. Responsible for the development of ***three future alternatives*** along Northshore Boulevard between I-12 and US 190 in Slidell, LA. Managed the ***data collection*** process and peak period observations to determine existing traffic patterns as well as the ***safety analysis*** along the corridor. Developed three alternatives that used a combination of ***traffic signal retiming***, J-turns, and roundabouts to provide better ***access management*** along Northshore Boulevard as well as improve traffic flow 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, 07/13 – 01/14	Stumberg Lane Extension, City of Baton Rouge Green Light Plan, East Baton Rouge Parish, LA. *Traffic Engineer*. Responsible for the ***design of new traffic signals*** at US 61 (Airline Highway) and LA 73 (Jefferson Highway) for the extension of Stumberg Lane in Baton Rouge, LA. Also, responsible for the ***design and layout*** of the fiber optic interconnect 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 ***road design and geometrics*** for the widening of LA 23 in Jefferson and Plaquemines Parishes between Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed ***traffic analysis*** for the ***traffic signal timing*** and required turn bay lengths at intersections. Developed ***traffic signing plans***, ***pavement marking layouts*** and temporary traffic control plans.
10/10 – 07/15	Barriere Road Feasibility Study/Traffic Study, US Department of Defense, Plaquemines Parish, LA. *Civil/Traffic Engineer*. Responsible for the geometric layout and design 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	ARCADIS			Meets MPR No. 3
Name	Thomas Montz, PE, PTOE, PTP	Years of relevant experience with this employer	12	
Title	Principal Traffic Engineer	Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization		MS / 2011 / Civil Engineering, Louisiana State University BS / 2009 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date		PE.0039128 / LA / Exp. 09/2024; PTOE 4093 / USA / 07/2025; PTP 599 / USA / 03/2023		
Year registered	2014	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.		QAQC and Technical Advisory (Traffic Engineering Studies and Design)		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Montz is a Principal Traffic Engineer specializing in signal design and timing, advanced traffic modeling, transportation planning and feasibility, safety, and design. He has over 12 years of experience leading a multitude of planning and engineering projects including signal timing studies and implementation projects, signal warrant studies, intersection and corridor traffic studies, Stage 0 feasibility studies, safety studies, NEPA studies, and transportation management during construction. **Mr. Montz meets MPR #3 and has completed LADOTD Traffic Engineering Process and Report Training.**
08/18 – 12/19	**Traffic Engineering IDIQ - I-10 Widening Mesoscopic Model, LADOTD, East Baton Rouge Parish, LA.** *Project Manager.* Responsible for development of ***mesoscopic traffic model using Dynameq***. The object of the study was to develop an existing conditions model. Responsibilities included defining study area, assessing data needs, developing ***data collection*** plan, preparing calibration documentation, and preparing model documentation.
01/18 – Ongoing	**Traffic Engineering IDIQ - I-20 Mesoscopic Model and TMP Using Dynameq, LADOTD, Bossier Parish, LA.** *Project Manager.* Responsible for development of ***mesoscopic traffic model using Dynameq*** to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project is anticipated to disrupt traffic in this critical portion of I-20. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, ***safety analysis***, ***operational analysis***, assistance with public outreach, development of a ***Level 4 TMP***, and development of work zone mitigation strategies.
09/15 – 01/18	**Traffic Engineering IDIQ - US 165 (US 165 Business to LA 2) Corridor Study, LADOTD, Ouachita Parish, LA.** *Project Manager.* Responsible for general oversight and technical analysis for this ***corridor analysis*** and ***operational improvement feasibility study***. Conducted ***signal warrant analysis***. Performed select-link and TAZ analysis using TransCAD model to determine distribution of future trips in developing area along US 165 corridor in Monroe, LA. Performed ***traffic analysis*** for roadway segments using ***microsimulation models (Vissim)*** for complex segments, and Vistro Software for less congested segments. Evaluated the impacts of future growth along the corridor using the ***ITE Trip Generation Manual***. Completed ***Stage 0 documentation*** for the project.
04/19 – 12/19	**Traffic Signal Design IDIQ - US 90 Traffic Signal Timing Upgrades/LADOTD, Lafayette Parish, LA.** *Project Manager.* Responsible for project tasks involving ***traffic data collection*** and analysis, ***traffic signal inventory***, peak period determination and observations, ***warrant analysis***, travel time runs, ***traffic signal timing analysis*** using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards.

04/19 – 12/19	Traffic Signal Design IDIQ - East Baton Rouge Signal Upgrades and Design Plans, LADOTD, East Baton Rouge Parish, LA. *Traffic Engineer.* Responsible for supervisory tasks and oversight of this project involving ***field signal inventory*** and the creation of updated ***signal design plans and quantities***. 39 locations identified in East Baton Rouge Parish to be upgraded from video detection to magnetometer detection. All signalized intersection on Florida Boulevard from I-110 to Airline Highway were included for signal detection upgrades under this project.
02/15 – 08/17	Traffic Engineering IDIQ - US 71 Corridor Study - Phase II, LADOTD; Rapides Parish, LA. *Project Manager.* Responsible for the preparation of a corridor ***feasibility study*** for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included ***traffic data collection***, ***signal warrant analysis***, ***traffic analysis***, ***safety data analysis***, alternative development, and public / stakeholder involvement. Completed ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists***.
12/13 – 06/15	Safety Studies IDIQ - LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA. *Traffic Engineer.* Responsible for traffic and safety analysis as part of the ***Stage 0 feasibility study*** to develop improvement alternatives with the goal of enhancing mobility and safety on LA 3235. Main tasks included ***traffic data collection***, ***signal warrant studies***, ***traffic analysis***, ***safety analysis***, development of conceptual layouts, and public outreach. Intersections found to warrant signalization were also modeled in unconventional designs including U-turns, J-turns, and RCUTs. Purpose of the project was to address historical safety issues along the corridor resulting from high speeds and conflict points. Assisted with the completion of ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists***.
04/16 – 09/18	Safety Studies IDIQ - New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA. *Traffic Engineer.* Responsible for ***traffic data collection***, ***volume development***, ***traffic analysis***, ***signal warrant analysis***, and ***alternative screening***. Purpose of the project was to identify ***safety improvement alternatives*** at 20 high-priority intersections in New Orleans with a history of pedestrian and bicycle safety issues. Assisted with the development of safety countermeasures for short-term and long-term alternatives. Assisted with the completion of ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists***.
12/13 – 05/15	Safety Studies IDIQ - Joe Sevario / Roddy Road Stage 0 Safety Feasibility Study, LADOTD, Ascension Parish, LA. *Traffic Engineer*. 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 ***traffic data collection***, ***traffic signal warrants***, ***crash analysis***, ***capacity analysis***, ***safety analysis***, review of existing pipelines and other municipal *utilities, alternatives analysis, design development, and cost estimates.*
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. *Traffic Engineer.* Responsible for construction phasing modeling and evaluation to determine the impacts of various ***construction phasing scenarios and mitigation*** that will be required to ***minimize travel delays during construction***. Construction phasing scenarios are being modeled using a ***calibrated mesoscopic model*** developed by Arcadis, which can estimate the effects of construction activities on the broader roadway network. Model results are being used to inform the Transportation Management Plan for the project.

Firm employed by	ARCADIS		Meets MPR No. 1
Name	Marwan Abboud, PE	Years of relevant experience with this employer	23
Title	National Traffic Engineering and ITS Practice Lead	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization		MS / 1983 / Transportation Engineering, Georgia Institute of Technology BS / 1981 / Civil Engineering, Georgia Institute of Technology	
Active registration number / state / expiration date		PE.0034657 / LA / Exp. 09/2023	
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Principal-in-Charge	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Abboud is the Arcadis National Traffic Engineering Practice Operations and Intelligent Transportation System (ITS) Manager and with more than 36 years of experience in the fields of traffic engineering, ITS, and highway design. He has managed and engineered numerous traffic engineering and planning projects including intersection and corridor studies, Stage 0 feasibility studies, signal design projects, ITS design projects, traffic and safety studies, access management studies, design-builds, and NEPA studies. He has extensive experience in developing strategic implementation plans, designs and upgrades of ATMS, ATIS and TCC, as well as planning, design, and timing of traffic signal systems. **Mr. Abboud meets MPR #1.**
08/13 – 01/20	**Traffic Engineering IDIQ Contracts, LADOTD, Statewide, LA.** *Regional Transportation Lead.* Provided technical advisory and resource management, and project reviews for task orders issued under two traffic engineering IDIQs. Services provided included a range of traffic engineering services including ***traffic data collection***, ***intersection and corridor studies***, ***traffic modeling***, ***signal warrant analysis and timing optimization***, alternative development and conceptual design, ***signal design***, ***traffic signal inventory***, and safety analysis / improvements. Arcadis developed the first ***mesoscopic models using Dynameq*** for the state of Louisiana.
08/14 – 03/21	**Safety Studies IDIQ Contracts, LADOTD, Statewide, LA.** *Regional Transportation Lead.* Provided technical advisory and resource management, and project reviews for task orders issued under two safety studies IDIQs. Services provided included a range of engineering services including ***safety and traffic studies***, historical crash analysis, collision diagram development, identification of safety deficiencies, ***traffic data collection***, development of safety countermeasures, Highway Safety Manual predictive methods, ***Stage 0 feasibility studies and documentation***, ***traffic modeling and analysis***, ***intersection and corridor studies***, and access management improvements.
12/16 – 02/20	**Traffic Signal Engineering IDIQ, LADOTD, Statewide, LA.** *Regional Transportation Lead.* Provided technical advisory and resource management, and project reviews for task orders issued under this IDIQ. Serviced provided included a range of traffic engineering services including ***traffic data collection***, ***traffic modeling and analysis***, ***signal timing optimization***, ***traffic signal inventory***, ***traffic signal design plans***, construction ***cost estimates***, and quantities.
01/14 – Ongoing	**Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA.** *Regional Transportation Lead.* Responsible technical advisory and resource management, and project reviews for the project which included ***traffic and safety analysis, signal timing and warrant analysis,*** alternative screening and analysis, preliminary roadway and bridge design, line and grade, ***Interchange Modification Report***, and Environmental Assessment. Purpose of the project is to improving operations and safety along Range Avenue at the I-12 interchange and along I-12.

01/18 – Ongoing	I-20 Mesoscopic Model and TMP Using Dynameq, Traffic Engineering IDIQ -LADOTD, Bossier Parish, LA. *Technical Advisor.* Responsible for technical oversight in the development of ***mesoscopic traffic model using Dynameq*** to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, ***safety analysis***, ***operational analysis***, assistance with public outreach, development of a ***Level 4 TMP***, and development of work zone mitigation strategies.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. *Technical Advisor.* Responsible for technical advisory and QAQC of all ***traffic engineering*** tasks including development of permanent signing plans, ***signal design and timing plans***, ***Interchange Modification Reports***, and ***Transportation Management Plans*** for the widening of Interstate-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a ***calibrated mesoscopic model using Dynameq*** to determine the impacts during construction and mitigations that will be necessary to minimize delay.
05/16 – 05/21	Connected & Autonomous Vehicles Technology Team Support, LADOTD, Statewide, LA. *Technical Advisor*. Provided technical support services and facilitate need-based CV/AV planning activities related to CAV and their impact on highway infrastructure for the department's CAV Technology Team. The Arcadis team facilitated workshops and web-based discussions for an inter-disciplinary 30-member CAV Technology Team to keep LADOTD updated on industry trends while preparing Louisiana for the future of transportation. The LADOTD CAV Technology Team consists of 4 working groups: Highway Infrastructure Technology, Multi-Modal Infrastructure Technology, Departmental Applications, and Policy & Agency Role. The main goal of this project is to keep pace with current technological developments and better understand DOTD's needs before developing a ***CAV Strategic Implementation Plan***. The purpose of the web meetings and workshops was to identify ways LADOTD can achieve ITS missions by leveraging CAV technology, present "lessons learned from Connected Vehicle (CV) deployments" from other transportation agencies, determine roles and responsibilities within LADOTD to support CAV projects, and maintain the team up to date with current CAV technological developments.
06/13 – Ongoing	ITS Maintenance IDIQ Contract – Program Management and Maintenance Management System, LADOTD, Statewide, LA. *Resource Manager*. Responsible for resource allocation and management, quality control and assurance. Arcadis was awarded the ***first-ever ITS maintenance contract*** to establish a program to systematically provide routine and responsive maintenance for the Louisiana Department of Transportation & Development's ***statewide ITS infrastructure***. Such infrastructure includes CCTV cameras, dynamic message signs (DMS), radar vehicle detectors, and ramp meters, totaling more than 500 sites statewide. The project scope includes program management, maintenance management system software, comprehensive maintenance plan for routine and responsive maintenance, health and safety and traffic control plan development, and tracking and performance measures reporting.

PERSONNEL RESUMES

TRAFFIC AND SAFETY ENGINEERS

Firm employed by	ARCADIS			Meets MPR No. 4
Name	Skyler Waaso, PE, PTOE	Years of relevant experience with this employer	2	
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	11	
Degree(s) / Years / Specialization		BS / 2009 / Civil Engineering, University of Louisiana at Lafayette		
Active registration number / state / expiration date		PE.0039070 / LA / Exp. 09/2024; PTOE #4600 / USA / Exp. 03/2025		
Year registered	2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Waaso is a Senior Traffic Engineer with 13 years of experience in traffic modeling and studies. He is experienced with a range of traffic modeling software including Highway Capacity Software, Vissim (microsimulation), Synchro, Vistro, and Sidra. Mr. Waaso has experience managing and delivering a wide range of traffic projects for LADOTD, and other DOTs across the country, pertaining to intersection and corridor studies, access management studies, signal warrant studies, Stage 0 feasibility studies, NEPA studies, and safety studies. **Mr. Waaso meets MPR #4 and has completed the LADOTD Traffic Engineering Process and Report Training.**
02/17 – 09/18	**Traffic Engineering IDIQ - US 71 Corridor - Phase III Traffic and Safety Corridor Study, LADOTD, Rapides Parish, LA.** *Traffic Engineer.* Responsible for conducting traffic study tasks including ***traffic data collection***, ***signal warrant analysis***, ***traffic analysis***, ***crash analysis***, ***alternative and countermeasure development***, ***predictive safety analysis***, and ***conceptual drawings***.
02/17 – 02/18	**Traffic Engineering IDIQ – US 165 Traffic and Corridor Study, LADOTD, Ouachita Parish, LA.** *Traffic Engineer.* Responsible for traffic study tasks including ***traffic data collection*** and volume development, ***microsimulation modeling (Vissim)*** of existing and future conditions, developing ***capacity, access management and safety improvements***, and study documentation.
01/18 – 06/19	**Traffic Engineering IDIQ - I-20 Mesoscopic Model and TMP Using Dynameq, LADOTD, Bossier Parish, LA.** *Traffic Engineer.* Assisted with the development of ***mesoscopic traffic model using Dynameq*** to predict queueing, delay and alternate travel patterns due to planned construction on I-20 to replace pavement. The project is anticipated to disrupt traffic in this critical portion of I-20. The project scope includes development and calibration of mesoscopic model, analysis of alternative routes, ***safety analysis***, ***operational analysis***, assistance with public outreach, development of a ***Level 4 TMP***, and development of work zone mitigation strategies.
06/15 – 02/17	**LA 59 Roundabout Corridor Traffic Study, LADOTD, St. Tammany Parish, LA.** *Traffic Engineer*. Performed ***traffic analysis*** for a segment along the LA 59 corridor in Covington, Louisiana. Main tasks included analyzing the corridor's existing conditions and ***developing alternatives that would improve the safety and capacity needs of the corridor***. Performed the traffic analysis in ***Synchro and Sidra*** as well as review crash reports and summary the crash history. Developed alternatives for the corridor and presented our concept to the DOTD district office and parish representatives. ***Completed a stamped and signed roundabout report.***
09/19 – Ongoing	**Innovate Mound Project, MDOT, Macomb County, MI.** *Senior Traffic Engineer.* Responsible for traffic engineering tasks including conducting a ***corridor traffic study*** of Mound Road from I-696 to M-59. ***Traffic modeling and analysis*** was performed to develop proposed improvements including ***capacity***, ***access management***, ***safety***, multi-modal and ***traffic signal improvements***. Developed traffic study documentation and provided ***transportation management*** during construction.

04/16 – 02/17	**I-110 to Terrace Avenue Interchange Modification Report, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer***.** Prepared an ***Interchange Modification Report*** for FHWA on a future connection along 1-110 SB in downtown Baton Rouge. Main tasks included ***modeling of the existing, no build, and build alternative in Vissim*** and completing the written Interchange Modification Report that was submitted to FHWA.
02/17 – 02/18	Safety Studies IDIQ - I-49 Interchange Stage 0 Traffic and Safety Feasibility Study, LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Responsible for conducting traffic study and associated tasks including ***data collection and analysis***, ***traffic and safety analysis***, and ***conceptual design drawings***. Purpose of the project was to identify ***feasible improvement alternatives*** to address historical safety issues along the I-49 corridor and at 3 interchanges. Participated with meetings with LADOTD HQ and District 03 team members to understand project needs and develop ***context sensitive solutions***.
04/19 – 06/19	Traffic Signal Design IDIQ - US 90 Traffic Signal Timing Upgrades/LADOTD, Lafayette Parish, LA. *Traffic Engineer.* Project tasks involved ***traffic data collection*** and analysis, ***traffic signal inventory***, peak period determination and observations, ***warrant analysis***, travel time runs, ***traffic signal timing analysis*** using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards
02/17 – 06/19	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. *Traffic Engineer.* Responsible for ***traffic analysis*** of proposed alternatives using ***Vissim software***. 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. An ***Interchange Modification Report*** was prepared to document results of the traffic study and proposed improvements.
02/20 – Ongoing	U-23 Flex Route Traffic Study, MDOT, Livingston County, MI. Senior *Traffic Engineer.* Responsible for ***traffic modeling and alternative analysis*** for US-23 between M-36 and I-96. Work includes analysis of build alternatives, including developing and ***calibrating existing Vissim models*** to FHWA/MDOT standards and using the models to compare the ***projected future traffic operations of build alternatives***, including the extension of the existing US-23 Flex Route north of I-96. The US-23 Flex Route is a part-time dynamic hard shoulder use facility north of Ann Arbor. This study will evaluate if and how the Flex Route can be extended approximately five miles from 8 Mile Road to I-96. The study will include ***conducting traffic and geometric analyses***, road and bridge scoping, conducting environmental surveys with appropriate reports and preparing National Environmental Policy Act (NEPA) documentation. The study will include traffic, road, bridge, ITS components, ***safety*** and drainage. There is also a public engagement aspect to the project that will involve two stakeholder meetings and two public meetings.
07/19 – Ongoing	I-375 Corridor Improvements, MDOT, Detroit, MI. Senior *Traffic Engineer.* Responsible for the operational analysis of build alternatives and competing the ***Interchange Access Change Request (IACR) document***. The build alternatives ***modeled in Vissim*** converted an urban freeway into an urban boulevard. The build alternative also included a new ***traffic forecasting methodology***, which was developed by working with ***dynamic traffic assignment*** model to consider potential traffic impacts outside of the study area using ***Synchro and HCS***. The project will promote and support walkability, increase transit access, and improve non-motorized connections and urban-friendly linkages between businesses, cultural, entertainment destinations, and neighborhoods. Scope of services include environmental clearance, early preliminary engineering, project management, project controls, federal compliance, public involvement, procurement, oversight of design, and construction inspection services.

Firm employed by				Meets MPR No. 4
Name	Kimberly McDaniel, PE, PTOE, PTP	Years of relevant experience with this employer	1	
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization		MS / 2005 / Civil Engineering; BS / 2003 / Civil Engineering		
Active registration number / state / expiration date		PE.032973 / LA / Exp. 09/2023; PTOE # 2072 / USA / 10/2025; PTP # 802 / USA / Exp. 03/2025		
Year registered	2007	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)		

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. McDaniel is a Senior Traffic Engineer with over 19 years of experience in traffic engineering, transportation planning and design, and project management. She spent 6 years in state service at LADOTD in Traffic Engineering Management where she developed policies and programs related to Complete Streets, Access Management, and Traffic Impacts and served as the subject-matter expert on access management and traffic impact studies. The remainder of her career has been spent as a consultant performing a wide variety of transportation design and planning projects throughout the states of Louisiana, Texas, and Michigan including intersection and corridor studies, Stage 0 studies, Environmental Assessments, signal warrant studies, safety and access management studies, pedestrian safety studies, and signal timing and design. Projects often involve the use of traffic modeling software such as Synchro, Vistro, Highway Capacity Software, Vissim, and Sidra. **Ms. McDaniel meets MPR #4 and has completed LADOTD Traffic Engineering Process and Report Training.**
04/15 – 12/18	**Traffic Engineering IDIQ, Statewide, LA.** *Project Manager.* Responsible for a $3 million traffic engineering services on-call contract with LADOTD. Services included *traffic engineering studies*, *corridor studies*, *signal warrant analysis*, traffic signal design, *traffic data collection*, signing and pavement marking designs, *traffic signal timing* studies, and intersection design.
01/19 – 04/20	**Cane River Bridge Church Street Traffic Study and EA, LADOTD, Natchitoches Parish, LA.** *Senior Traffic Engineer.* Responsible for the *analysis of multiple future traffic scenario alternatives* as well as three different complex detour scenarios for the replacement of the Cane River Bridge. Assisted with the development of the final EA document which received approval on the first known LADOTD and FHWA "net benefit determination" for Section 4(f) properties in Louisiana. Assisted in the development a Finding of No Significant Impact (FONSI) document, which was approved by FHWA and LADOTD. Assisted in coordinating public and agency outreach activities
06/17 – 06/21	**US 80 (Vancil Rd to Well Rd) Widening Traffic Study and EA, LADOTD, Ouachita Parish, LA.** *Senior Traffic Engineer.* Responsible for *traffic and corridor study to develop capacity and safety improvements* for a 1.4- mile portion of US 80. Developed *traffic models* for a variety of alternatives, identified safety improvements, and determined geometric configurations to increase traffic capacity.
08/21 – 05/22	**Railroad Trail Signal & Pedestrian Crossing Traffic Study and Design, Tipton Associates, Lincoln Parish, LA**. *Project Manager.* Responsible for the design and development of *signal design plans plans* for the Tech Drive at Railroad Avenue Signal and Pedestrian Crossing, which included a *traffic study*, engineering design, construction plans for the installation of accessible/audible countdown pedestrian signals, and pavement markings as part of FHWA BUILD Grant for pedestrian improvements throughout the Louisiana Tech campus and the City of Ruston.

09/20 – 05/21	LA 93 Traffic Impact Study, City of Scott, Lafayette Parish, LA. *Senior Traffic Engineer.* Responsible for conducting a *traffic and safety evaluation* for the City of Scott. The study included *traffic impact studies* for three proposed developments, two *Intersection Control Evaluations (ICE)*, and a safety evaluation, all of which was required to conform to the LADOTD Traffic Engineering Process and Report requirements.
08/19 – 05/20	LA-93 at Westgate Traffic Signal Study, City of Scott, Lafayette Parish, LA. *Senior Traffic Engineer.* Responsible for performing a *traffic study* and preparing an *Intersection Control Evaluation (ICE) report* which resulted in the approval of a temporary traffic signal at the intersection in to relieve traffic congestion due to an adjacent road closure. She also managed the design of the temporary signal and associated construction plans and LADOTD Permitting Process. This study was completed in accordance with the LADOTD TEPR requirements.
07/20 – 05/21	Tech Drive Pedestrian Crossings, Louisiana Tech University, Lincoln Parish, LA. *Senior Traffic Engineer.* New student housing is being constructed across a state highway from the main campus posed challenges for the thousands of students who would have to cross the highway each day. The University sought improvements to safety at these crossings. The scope included *traffic engineering and permit assistance*, along with coordination between Louisiana Tech and the Louisiana Department of Transportation and Development (LADOTD) for the development of construction plans for the installation of Rectangular Rapid Flashing Beacons (RRFB) at two midblock crossings.
10/08 – 08/14	Access Management Program, LADOTD, Statewide, LA. *Program Manager. Developed and managed the LADOTD Access Management Program*. In this role, she performed extensive research of access management policies and best practices throughout the US. Led multiple focus groups and policy development teams consisting of LADOTD employees, consulting engineers, commercial developers, residential developers, real estate agents, attorneys, municipal employees, and elected officials from around the state to develop a policy for LADOTD which would regulate the granting of access to state highways. The policy was adopted as Louisiana Administrative Code Title 70, Part I, Chapter 15. Authored the Access Connections Policy, a document expanding the criteria of the code. Developed training courses for DOTD employees, consultants, contractors, real estate professionals, and elected officials and conducted trainings throughout the state of Louisiana. Served as the state's *Subject Matter Expert on Access Management* throughout this time.

Firm employed by	ARCADIS			Meets MPR No. 4
Name	Sridhar Basetty, PE, PTOE, PTP	Years of relevant experience with this employer	15	
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization		MS / 2004 / Transportation Engineering BS / 2002 / Civil Engineering		
Active registration number / state / expiration date		PE.0038950 / LA / 09/2024; PTOE #3682 / USA / 12/2023; PTP #526 / US / 07/2025		
Year registered	2015	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Basetty is a Senior Traffic Engineer with experience in a wide range of traffic engineering applications including traffic modeling and analysis, intersection and corridor studies, signal warrant analysis, signal design, and signing design. His project experience includes stage 0 feasibility studies, freeway and arterial corridor studies, IMR and IJR studies, transportation management plans, environmental assessments and traffic impact studies. He is highly proficient with traffic modeling and analysis tools that include Highway Capacity Software, Synchro / SimTraffic, TRANSYT 7F, CORSIM, Vissim, Sidra, Visum, CUBE, and TransCAD. **Mr. Basetty meets MPR #4.**
01/14 – 09/18	**Traffic Engineering IDIQ - US 71 Corridor Traffic Study - Phases 1-3, LADOTD, Rapides Parish, LA.** *Senior Traffic Engineer.* Preparation of a traffic studies for the purpose of enhancing mobility and safety. Main tasks include ***traffic data collection***, ***signal warrant studies***, ***traffic analysis***, safety data analysis, and development of conceptual layouts. Data collection efforts include automated one-week counts, manual turning movement counts, intersection approach counts, travel time runs, and spot speed studies. Responsibilities include conducting ***signal timing optimization***, signal warrant analysis at all major intersections and developing a preliminary ***cost estimate and conceptual layout drawings*** of alternatives including U-turns, J-turns, restricted turns, one-way frontage roads, slip ramps, and service road islands (right-out only). Responsibilities also include developing ***Vissim model animations*** of the proposed alternatives for high- and low-volume scenarios.
02/15 – 01/18	**Traffic Engineering IDIQ - LA 3105 (Green Acres to LA 72) Corridor Traffic Study, LADOTD, Bossier Parish, LA.** *Senior Traffic Engineer.* Responsible for overseeing the development/evaluation of existing and future year conditions using a ***calibrated Vissim model***. Designed alternatives for phased implementation based on identified needs and input from local stakeholders including medians, restricted intersections, roundabouts, roadway widening, and ***signal timing enhancements***. Responsible for development and quality control of all project deliverables including ***traffic modeling***, public involvement, and ***traffic study documentation***.
02/15 – 11/17	**Traffic Engineering IDIQ - Intersection Feasibility Study, Evangeline Thwy, Johnston St, & Louisiana Ave, LADOTD, Lafayette Parish, LA.** *Senior Traffic Engineer.* Responsible for overseeing all scope elements including ***data collection***, development of ***calibrated Vissim model***, development of ***operational and safety improvements***, ***signal warrant analysis***, and study documentation. Proposed improvements included a continuous flow intersection alternative and restricted intersection alternatives. A ***Vissim animation*** was created to demonstration the operational characteristics of proposed alternatives.

01/14 – Ongoing	Pete's Highway Traffic Study and EA, LADOTD, Livingston Parish, LA. *Senior Traffic Engineer*. Traffic study preparation to analyze three Stage 0 build alternatives to relieve traffic congestion and improve traffic operations on LA 3002 (S. Range Avenue) and its intersections in the vicinity of the I-12 interchange. Responsibilities include performing a ***traffic study*** based on LADOTD microsimulation guidelines and FHWA Traffic Analysis Toolbox Volume III guidelines. Main tasks include ***traffic data collection***, ***Vissim model calibration and simulation***, alternative traffic analysis, technical documentation, ***signal timing***, ***signal warrant analysis***, conceptual layouts development, preliminary cost estimates, and public outreach.
03/17 – Ongoing	I-49 South (Ricohoc to Berwick) Supplemental Environmental Impact Statement (SEIS), LADOTD, St. Mary Parish, LA. *Senior Traffic Engineer.* Responsible for overseeing traffic engineering components of the supplemental environmental impacts statement. Study elements include ***data collection***, ***microsimulation model development and calibration***, ***travel forecasting*** memorandum, evaluation of interchange locations and types to support the conversion of US 90 to Interstate-49.
11/14 – 10/15	Safety Studies IDIQ - LA 44 and Loosemore Road Roundabout Safety Study, LADOTD, Ascension Parish, LA. *Senior Traffic Engineer*. Responsible for coordination between the Concept Design Team and Lead Engineers at LADOTD; preparation of final documents to be delivered to LADOTD at the end of the project. The project intersection was an unsignalized intersection located south of Gonzales, Louisiana. The purpose of the study was to investigate the viability of converting this intersection into a roundabout based on right-of-way limitations. The intersection is situated between several utility pipelines that potentially present construction problems with a roundabout design. Three different roundabout alternatives were evaluated - roundabout at current location, roundabout south of intersection, and dual roundabouts.
12/13 – 05/15	Safety Studies IDIQ - Joe Sevario/Roddy Road Roundabouts Stage 0 Safety Study, LADOTD, Ascension Parish, LA. *Senior Traffic Engineer.* Responsible for project management, public outreach and stakeholder interaction, review of ***traffic and safety analysis***, conceptual layout development, and ***Stage O documentation***. Study to ***address the safety needs along the corridor*** and evaluate the feasibility of roundabouts at various intersections between US 61 and LA 42. The corridor accommodates both local residential traffic and regional traffic due to the presence of intersecting state routes. In addition, presence of narrow, higher speeds side-streets introduced an additional factor influencing safety along the corridor. Arcadis' evaluation methodology ensured that all project-related safety issues were identified and appropriate mitigation measures in the form of roundabout and/or lane treatments were proposed to address anticipated issues.
10/15 – 06/19	US90 Business Signing Upgrades, LADOTD, Orleans and Jefferson Parish, LA. *Engineer of Record.* Responsible for development of ***transportation management plans*** and ***permanent signing plans*** for segments of US 90 Business and I-10 through New Orlean's Central Business District and surrounding areas. The project replaced all standard and overhead signing within the project limits. Project scope included inventory of existing signs, development of proposed sign layouts, structural details development, and production of 4 construction plan sets for distinct segments of the project limits.

Firm employed by			Meets MPR No. 4
Name	Diane C. Hammonds, P.E., PTOE, RSP	Years of relevant experience with this employer	1
Title	Senior Traffic Engineer	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization		BS / 2002 / Civil Engineering	
Active registration number / state / expiration date		PE.040749 / LA / Exp. 09/2024; PTOE #7113 / USA / Exp. 12/2022 RSP #798 / USA / Exp. 03/2025	
Year registered	2016	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies, Traffic Signal Design and Timing	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Hammonds a Senior Traffic Engineer with over 17 years of experience in traffic engineering specializing in intersection and corridor studies, Stage 0 studies, traffic simulation modeling, access management reviews, safety studies, signal warrant analysis, roundabout analysis and design, and traffic signal design. Ms. Hammonds has successfully completed hundreds of successful traffic & transportation projects. Her unique skills to bring both the client and reviewing agency to agreement on the final product is an asset to the projects she is involved in. She is proficient in several traffic modeling software including Highway Capacity Software, Synchro, SimTraffic, VISTRO, and Sidra. **Ms. Hammonds meets MPR #4 and has completed LADOTD Traffic Engineering Process and Report Training.**
05/18 – 08/19	**Lakeshore Drive Mixed Use Development Traffic Impact Study, St. Tammany Parish, LA.** *Senior Traffic Engineer.* Served as the traffic lead and project manager for a ± 1,083-acre mixed use development which at full buildout will contain residential houses, a school, and small commercial retail. The *traffic study* included 2 interstate interchanges with state highways as well as a 1.7-mile segment of Parish owned roadway, and *traffic modeling* of 4 roundabouts and a J-turn corridor. She performed approval coordination with both the LADOTD and St. Tammany Parish.
06/17 – 06/21	**US 80 (Vancil Rd to Well Rd) Widening Traffic Study and EA, LADOTD, Ouachita Parish, LA.** *Senior Traffic Engineer.* Responsible for performing a *traffic study* to improve the corridor by widening the existing roadway and implementing intersection improvement along a 1.4-mile portion of US 80. Assisted in the existing/no-build *traffic modeling*, safety, and *alternatives capacity analysis* reports, which have been approved by LADOTD. Analyzed project impacts by coordinating and assisting in developing the line and grade study, *cost estimates*, and *conceptual plans.*
08/19 – 05/22	**LA 93 (Westgate Road) at Eraste Landry Road Intersection Traffic Study, City of Scott, Lafayette Parish, LA.** *Senior Traffic Engineer.* Served as the technical lead, analyst and design engineer for the modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction which resulted in an adjacent roadway closure. Prepared the volume *forecasting and capacity analysis* as well as *TEPR report documentation*, and *signal design*. The approval coordination included the LADOTD District 03 staff as well as Headquarters and the Lafayette Consolidated Government.
01/22 – 05/22	**LA 433 at Town Center Parkway Intersection Study and Signal Design, St. Tammany Parish, LA.** *Senior Traffic Engineer*. Served as the Engineer of Record and Lead Traffic Engineer for an *Intersection Control Evaluation (ICE) analysis* for the intersection of LA 433 (Old Spanish Trail) at Town Center Parkway. The scope of services includes providing *traffic engineering modeling and analyses*, *traffic signal design*, and permit assistance to Stirling Properties as required by the LADOTD. The evaluation included an MUTCD 2009 Edition *Traffic Signal Warrant Evaluation*, a crash review for a three (3) year period that included diagrams,

	locations, and summaries, an existing operating analysis, and an alternative intersection control for a traffic signal, an all-way stop, a roundabout, an R-CUT, and median U-Turns.
08/21 – 05/22	Railroad Trail Signal & Pedestrian Crossing Traffic Study and Design, Tipton Associates, Lincoln Parish, LA. *Senior Traffic Engineer.* Served as the Lead Traffic Engineer responsible for the design and development of *signal design plans plans* for the Tech Drive at Railroad Avenue Signal and Pedestrian Crossing, which included a *traffic study*, engineering design, construction plans for the installation of accessible/audible countdown pedestrian signals, and pavement markings as part of FHWA BUILD Grant for pedestrian improvements throughout the Louisiana Tech campus and the City of Ruston.
02/19 – 08/21	Farm Road Multi-Bridge Replacement Project and TMP, Calcasieu Parish, LA. *Senior Traffic Engineer.* Provided assisted in the preparation of *traffic management plans* for the Calcasieu Parish Police Jury related to the replacement of two (2) bridges located on Farm Road. Provided *traffic engineering services*, including the preparation of temporary *traffic control plans*.
08/19 – 05/22	LA 37 (Sullivan Road to Liberty Road) Corridor Traffic Study, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer.* Served as the Lead Traffic Engineer and was responsible for managing and reviewing all submittals by the traffic sub-consultant, Diane ensured quality control and assisted in the development of the *Stage 0 Feasibility Study*, Environmental Inventory, and *conceptual plans.*

Firm employed by	ARCADIS		
Name	Jose M. Rodriguez, RSP	Years of relevant experience with this employer	6
Title	Senior Safety Analyst	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization		MS / 2014 / Civil Engineering, LSU BS / 2006 / Civil Engineering, Julio Garavito Colombian Engineering School	
Active registration number / state / expiration date		RSP1 #160 / USA / Exp. 05/2025, RSP2 #12 / USA / Exp. 12/2022	
Year registered	N/A	Discipline	
Contract role(s) / brief description of responsibilities.		Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Rodriguez specializes in transportation safety and has experience on a wide range of projects including corridor and intersection studies, Stage 0 feasibility studies, Road Safety Assessments, pedestrian and bicycle improvements, and systemic safety evaluation projects. Mr. Rodriguez has extensive experience in crash analysis and the application of Highway Safety Manual Methods including Crash Modification Factors and Safety Performance Functions for local and nonlocal conditions. Mr. Rodriguez develops dynamic web dashboards using Power BI to visualize and organize data analysis results. **Mr. Rodriguez has completed Traffic Engineering Process and Report Training.**
03/17 – 09/18	**Safety Studies IDIQ - New Orleans Pedestrian Stage 0 Safety Feasibility Study, LADOTD, Orleans Parish, LA.** *Safety Analyst*. ***Historical crash analysis*** and safety analyses performed for 20 high priority intersections utilizing the ***Highway Safety Manual (HSM) 2010 guidelines*** and ***Crash Modification Factors (CMFs)*** from other sources. Analyses include developing build alternatives that address safety and operational issues at each intersection for all road users and developing ***Stage 0 Checklists and Documentation.***
03/17 – 08/17	**Traffic Engineering IDIQ - US 71 Corridor - Phase II Stage 0 Feasibility Study, LADOTD; Rapides Parish, LA.** *Safety Analyst.* Responsible for ***historical crash analysis*** to identify trends and safety issues. Assisted with the ***development of build alternatives*** to address safety issues and performed ***HSM predictive safety analysis*** to estimate the potential reduction in crashes for each alternative. Assisted with the completion of ***Stage 0 Checklists and Documentation***.
02/15 – 01/18	**Traffic Engineering IDIQ - LA 3105 (Green Acres to LA 72) Corridor Study, LADOTD, Bossier Parish, LA.** *Safety Analyst.* Responsible for evaluation of ***existing safety conditions*** and application of ***Highway Safety Manual*** methods to predict the effectiveness of proposed access management and safety improvements.
04/14 – 03/16	**Highway Safety Manual (HSM) Safety Performance Functions (SPFs) and Louisiana Specific SPFs, LADOTD, Statewide, LA.** *Safety Analyst.* Responsible to ***calibrate the HSM SPFs*** based on the HSM recommendations and ***Statewide crash data*** and develop the ***Louisiana Specific SPFs*** using ***statistical analyses*** and procedures recommended by the HSM.
04/21 – Ongoing	**Louisiana Strategic Highway Safety Plan Update, LADOTD, Statewide, LA.** *Safety Analyst.* Responsible to conduct all ***crash data analysis*** tasks for the ***SHSP update***, including a ***statistical analysis of existing emphasis areas*** and evaluating potential modifications to emphasis areas.
05/18 – 06/21	**Safety Studies IDIQ - Baton Rouge Pedestrian Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA.** *Safety Analyst.* Supported the development and delivery of a ***Pedestrian and Bicycle Safety Action Plan*** for the City of Baton Rouge. Responsibilities include completing a ***review of crash data***, identification of priority locations, and creation of ***targeted safety countermeasures*** based on roadway type. He was responsible for reviewing the crash data in both ***(Geographic Information Systems) GIS and PowerBI*** to determine areas to focus on 10 locations with the most need for

	pedestrian/bicycle safety improvement. The second phase of the project included conducting ***Road Safety Audits (RSA's)*** at the 10 priority locations to ***identify safety issues and develop feasible alternatives to improve pedestrian and bicycle safety***.
03/17 – 10/19	Safety Studies IDIQ - I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA. *Safety Analyst.* Reviewed and summarized the current best practices and safety research information on hard shoulder running experience in the U.S and Europe. Research included shoulder / median width and impacts to safety, desirable lengths for effective hard shoulder running, and ***CMFs to predict impacts to safety*** by reducing lane and / or shoulder widths. Produced a high-level technical memorandum that will ***identify and evaluate feasible alternatives*** of utilizing existing I-12 shoulders, researching the best practices, analyzing the safety and operational benefits, and determining the likely costs. Evaluated safety based on ***crash analysis, the HSM predictive methods and the ISATe tool*** for Freeways. Estimated ***costs and benefits of operational and safety analysis*** for proposed alternatives.
03/17 – 02/18	Safety Studies IDIQ - I-49 Interchange Stage 0 Safety Feasibility Study, LADOTD, Lafayette Parish, LA. *Safety Analyst.* Responsible for the ***collection and evaluation of historical crash data***, ***screening and selection of available safety improvement strategies*** that typically include alternative intersection configuration, roundabouts, corridor geometry and lane configuration, and driver awareness improvements. Safety analysis using ***HSM Predictive Method and IHSDM***.
03/17 – Ongoing	Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. *Traffic and Safety Analyst.* Responsible for methodology development and overview of traffic analyses for a high-priority project. Work involves completing an EA and providing traffic engineering services related to ***improving operations and safety*** along Range Avenue at the I-12 interchange. Design alternatives included two split diamond interchange options with roundabout. partial cloverleafs, and collector-distributor road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA 16); and a diverging diamond interchange alternative at Range Avenue. ***Performed HSM predictive safety analysis*** to determine the ***safety benefits of proposed improvements***.
02/19 – Ongoing	District 8 Systemic Safety Project, Pedestrians, Ohio Department of Transportation, Columbus, Ohio. *Safety Analysts.* Responsible for the ***review of data, including crash, roadway inventory, and demographics***. The project required the ***development of a PowerBI dashboard*** and use of ***GIS analytics to review the crash data*** to determine metrics that were over-represented to locate areas where crashes are occurring, and areas where crashes may not be occurring, but have similar environmental characteristics (i.e., speed limit, lane width, driver or pedestrian age, presence of zero vehicle households, etc.), as where crashes are happening. This will allow the project team to not only develop engineering treatments, but also target areas for enhanced education and enforcement.
08/18 – Ongoing	Local Road Systemic Safety Task Order Contract, ODOT, Statewide. *Safety Analyst.* Assisted with four concurrent task orders to perform ***data driven systemic safety analysis*** for ODOT's current SHP initiative to promote regional safety through systemic safety analysis. Each task order includes data collection / conflation / QA/QC, database management, data evaluation, ***examining crash history***, developing crash trees, identifying focus facilities, ***identifying risk factors***, identifying segments of the network that may be at risk for crashes, ***identifying and prioritizing safety improvements***, and developing online web applications to clearly convey results to stakeholders using ESRI ArcMap and Microsoft PowerBI.

Firm employed by			Meets MPR No. 4
Name	Jonathan Fox, PE, PTOE, PMP	Years of relevant experience with this employer	8
Title	Principal Traffic Engineer	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 2003 / Civil Engineering	
Active registration number / state / expiration date		PE.033277 / LA / Exp. 09/2023; PTOE # 2329 / USA / 11/2025; PMP # 1812148 / Exp. 04/2024	
Year registered	2007	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Signal Design & Timing, Traffic Signal Inventory	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Fox has over 20 years of experience in traffic engineering, signal design, ITS design and maintenance, and project management. He is experienced in the development of traffic signal design and timing plans, and traffic signal inventory. He has developed specific expertise in the design of traffic signal systems, communication systems, detection systems, intelligent transportation systems, and the innovative application of adaptive traffic signals. He is a certified ATSSA Traffic Control Supervisor/Technician. **Mr. Fox meets MPR #4 and has completed LADOTD Traffic Engineering Process and Report Training.**
06/18 – 07/19	**US 90 Adaptive Corridor Signal Design, LADOTD, Calcasieu Parish, LA.** *Principal Traffic Engineer.* Jonathan has served as the project manager and overall design lead for the US 90 adaptive traffic signal corridor in Westlake, LA. Designs included preparing updated *traffic signal inventory (TSI)* forms and *signal design plans*, as well as communications support of two isolated traffic signals. Equipment included in the design consisted of new radar detection and unlicensed wireless communications. Jonathan oversaw the integration of the intersections into the *adaptive system* in Lake Charles.
08/15 – 07/19	**SASOL Lake Charles Chemical Project – Adaptive Traffic Signal System Design, SASOL, Calcasieu Parish, LA.** *Principal Traffic Engineer.* Responsible for *traffic signal designs, upgrades, communication design, and integration*. He oversaw developing traffic signal plans, *traffic modeling (Synchro)*, communication layouts, network design, *traffic signal inventory*, surveillance, travel time management, and permit applications. Six of these intersection upgrades were integrated by Jonathan's team as the *first Adaptive Traffic Signal System deployed in the state of Louisiana* (System A). One of the biggest challenges overcome was integrating DOTD's first private cellular network connection. This effort took continuous communications between DOTD District 07, DOTD ITS Section, Div. of Admin. Office of Technology Service, Trafficware, and Verizon Wireless. Efforts for Sasol also included design and construction support for a *temporary traffic signal* on Old Spanish Trail at Prater Road.
02/18 – 07/19	**System B (LA 108) Corridor Adaptive Traffic Signal Design, LADOTD, Calcasieu Parish, LA.** *Principal Traffic Engineer.* Responsible for the *design and implementation* of the System B *adaptive traffic signal corridor*, including *traffic signal inventory*. In addition to allocating IP addresses, configuring devices (both for network communication and signal operation), and managing construction and coordination, worked to bring an isolated traffic signal into the adaptive system through cellular communication. The communication system is currently active and the signals have been integrated into DOTD's *adaptive system*. Responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify DOTD with issues.

04/19 – 05/20	LA 1256 (Ruth St.) Adaptive Traffic Signal Corridor Design, LADOTD, Calcasieu Parish, LA. *Project Manager.* Responsible for *traffic signal design* and *communication network design* for the corridor. Allocated IP addresses for the devices and equipment at each signal along the corridor. He evaluated the path required for VLAN through an existing DOTD fiber optic ring for communication between the project site and DOTD D07 TMC. He performed wireless testing to evaluate whether 2Ghz or 5Ghz band frequencies would provide better performance along the corridor. He determined proper configuration for each network switch and wireless radio along the corridor.
01/07 – 01/12	L'Auberge Baton Rouge Casino & Hotel Off-Site Improvements, L'Auberge Casino, East Baton Rouge, LA. *Traffic Engineer.* This project involved *developing traffic signal plans for offsite signal improvements* at the intersections of Nicholson and Gardere, Bluebonnet and Nicholson, Burbank and Bluebonnet, and Perkins and Siegen. The project called for completely new traffic signal equipment at the Nicholson and Gardere intersection. Modifications and additions to the existing traffic signal equipment were required at the other intersections. Led the design efforts for the *traffic signals and fiber optic communications plans*, updated *traffic signal inventory*, and obtained DOTD traffic signal permits.
02/14 – Ongoing	ITS Maintenance, LADOTD, Statewide, LA. *Senior Traffic Engineer.* Roles include project management support, quality control checks, site reviews, as well as investigating options and developing concepts to improve sites. His knowledge of the ITS from planning through operations has made him a highly valuable asset to the ITS Maintenance team especially his knowledge of the ITS as it was designed and operated.
10/12 – 12/14	Baton Rouge ITS Phase 3, LADOTD, East Baton Rouge Parish, LA. *Senior Traffic Engineer.* Jonathan oversaw the System Engineering Analysis (SEA) document for the project in compliance with the FHWA Rule (23 CFR Part 940.11) to determine project scope and analyze implementation constraints including minimizing the impact of construction on the traveling public and using existing *fiber optic communications*. Several ITS deployments projects were solely focused on the core urban area, leaving gaps west of the Mississippi River (Iberville and West Baton Rouge Parishes), and east of the City in Livingston Parish. The solution to meet the LADOTD's goal of the Baton Rouge ITS Phase 3 project was to supplement the area with 16 additional closed circuit television video cameras, 5 dynamic message sign sites, 1 HUB site, 30 Bluetooth detection sites, 1 travel time message sign (first in the state), and 8 ramp meters that cover five parishes, over 50 miles, to help with key blind areas. *Jonathan led the development of the full plan set from conception to Final Plans*.
11/12 – 12/14	Sunshine Bridge ITS Deployment, LADOTD, Ascension Parish, LA. *Senior Traffic Engineer.* Jonathan managed all tasks from *system engineering* through deployment of final design package. He oversaw the development of the project level SEA for the deployment of a closed-circuit television camera system along LA 22 and LA 70 including the Sunshine Mississippi River Bridge. He overcame project challenges including determining how permitted fiber communications assets would be used, structure mounted conduit systems, and handling ongoing bridge painting construction. He developed a conceptual design to have the camera support mount directly to the bridge pier cap instead of the bridge's steel members to reduce maintenance. He also oversaw the analysis report, *developed plans, specifications, and provided cost estimates*.
01/08 — 01/09	Baton Rouge Downtown Two-Way Streets Project, City of Baton Rouge, East Baton Rouge Parish, LA. *Traffic Engineer.* This project involved *developing signal plans* for intersections affected by the transition from one-way operation to two-way, including the intersections of South Blvd at S. Phillip and St. Louis Streets, Government St at St. Louis and St. Ferdinand Streets, and North Blvd at St. Louis and St. Ferdinand Streets. Led the *signal design* efforts which included *signal plans, wiring diagrams, timing plans, and fiber optic communications*.

Firm employed by	ARCADIS		Meets MPR No. 4
Name	Justin Maderia, PE, PTOE, PTP	Years of relevant experience with this employer	15
Title	Senior Traffic and Safety Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS / 2005 / Civil Engineering; BS / 2004 / Civil Engineering	
Active registration number / state / expiration date		PE.0038492 / LA / 03/31/2024; PTOE #3455 / USA / 07/01/2024; PTP #604 / 07/01/2023	
Year registered	2013	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities		Traffic Modeling and Studies, Safety	

Experience dates	Experience and qualifications relevant to the proposed contract;
	Mr. Maderia's experience in transportation engineering includes a range of services including safety studies, feasibility studies, traffic flow/demand modeling, and micro-simulation modeling. His experience with safety studies includes crash review and analysis, development of safety improvements and countermeasures, and application of Highway Safety Manual (HSM) methodologies to evaluate the effectiveness of safety improvements. His software program experience includes IHSDM, CORSIM, Vissim, Sidra, Synchro, and Highway Capacity Software. **Mr. Maderia meets MPR #4 and has completed LADOTD Traffic Engineering Process and Report Training.**
11/20 – Ongoing	**I-10 CMAR Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA.** *Senior Traffic and Safety Engineer.* Assisting with review of traffic engineering tasks including *traffic analysis and modeling*, and *safety analysis*. Providing review of study documentation including *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.
01/14 – 02/17	**Traffic Engineering IDIQ - US 71 Corridor - Phase 1 Stage 0 Feasibility Study, LADOTD, Rapides Parish, LA.** *Senior Traffic and Safety Engineer*. Responsible for independent review of *traffic and safety analysis*, *Vissim modeling and animations*, and final *Stage 0 documentation*. Purpose of the project was to identify operational and safety needs and *determine the feasibility of various alternatives concepts* incorporating *innovative intersections*, roundabouts, and *signal timing improvements*.
02/15 – 08/17	**Traffic Engineering IDIQ - Evangeline Thruway, Johnston St, & Louisiana Ave. Intersection Study, LADOTD, Lafayette Parish, LA.** *Senior Traffic and Safety Engineer.* Responsible for the operational and *safety analysis of project alternatives* including existing, no-build, and build conditions. A calibrated Vissim model was developed and used to analyze the various scenarios. Build alternatives included CFI, RCUT, and MUT concepts. The primary objective of the study is to *identify reasonable alternatives that address the purpose and need* and conduct a *benefit/cost analysis* to determine feasibility.
03/16 – 07/18	**Safety Studies IDIQ - I-12 Hard Shoulder Running Feasibility Study, LADOTD, East Baton Rouge and Livingston Parishes, LA.** *Safety Engineer*. Evaluated safety based on, *crash analysis, the HSM predictive methods and the ISATe tool* for Freeways. *Estimated costs and safety benefits* to evaluate the feasibility of proposed alternatives. Analyzed speed data and volume data and developed figures for various hard shoulder running locations.
09/17 – Ongoing	**Safety Study Task Order Contracts, ODOT, Statewide, OH.** *Lead Engineer.* Responsible for completing *site specific safety studies* on a task order basis. Each safety study includes a site visit, existing conditions inventory, preparing existing conditions plans, collecting traffic counts, forecasting traffic volumes, *reviewing 3 year crash history*, *completing ODOT's CAM Tool*, capacity analysis, *CMF Clearinghouse to test counter-measures*, schematic diagrams, cost estimating, completing ODOT's ECAT, *writing a safety study technical report*, and applying for safety funding from ODOT.

Firm employed by	ARCADIS		
Name	Jonathan Reid, PE, PTOE, RSP	Years of relevant experience with this employer	7
Title	Principal Traffic and Safety Engineer	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		MS / 1999 / Civil Engineering, North Carolina State University, 1999 BS / 1994 / Civil Engineering, Lawrence Technological Institute, 1994	
Active registration number / state / expiration date		PE #032806 / GA / Exp. 12/2022 PTOE #1588 / USA / Exp. 03/2023 RSP #104 / USA / Exp. 12/2024	
Year registered	2008	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Technical Advisor and QA/QC (Safety)	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Reid has more than 22 years of experience. His background includes transportation safety, traffic modeling, intersection design, managed-lane facilities planning, feasibility studies, safety studies and design, Road Safety Assessments, corridor and intersection studies, roundabout design, toll roads, transit projects, sports/entertainment facility planning, highway signing/marking, traffic impact analysis, signal warrants and design, and traffic calming studies. He has managed traffic operations and planning projects for state, federal and municipal clients and developers in the U.S. and abroad.
01/18 – 05/18	**US 61 Corridor Feasibility Study (Airline Hwy), LADOTD, East Baton Rouge Parish, Louisiana.** *Technical Advisor*. Responsible for supervisory and oversight for this ***feasibility study***. The purpose of the study is to assess traffic operations and potential ***safety improvements*** for this urban, 4-lane divided highway. Scope of services included traffic data collection and analyses, ***safety data analyses***, future traffic projections considering corridor growth rates, assessment of ***access management improvements*** (implementing "Superstreet" concept), and evaluation of concept using HCM and ***HSM methodologies***.
03/17 – Ongoing	**I-49 South (Ricohoc to Berwick) Supplemental Environmental Impact Statement (SEIS), LADOTD, St. Mary Parish, LA.** *Technical Advisor.* Assisted with the development of ***Tier 1 Analysis*** to identify a range of ***feasible alternatives*** and determine the impacts with respect to traffic operations, ***safety,*** and cost.
06/15 – Ongoing	**Safety Project Identification & Evaluation Phase I, Georgia Department of Transportation, Statewide, GA.** *Traffic Engineer.* Support role in the development of ***feasibility studies*** including the development and validation of high-level concepts intersection operational improvements and concept development for 50+ projects identified by GDOT's Office of Traffic Operations. Concept studies involved developing feasible and affordable concepts that ***improve safety*** and mobility for projects ranging from simple intersection operational improvements to interchange modifications and non-traditional designs such as continuous flow intersections and roundabouts. Each project had desired stipulations such as no right-of-way acquisition, validation of roundabouts, ***development of best benefit / cost alternatives, construction cost*** limits, etc. The goal is to identify projects which could be released for construction under an abbreviated construction plan process and utilize GDOT maintenance crews to construct. Processes and standards were developed for the analysis and reporting of these projects that will ultimately assist GDOT in evaluating the feasibility and scope of a project and the State's best return on investment.

05/16 – Ongoing	Traffic Safety Design Services, Region B, (Districts 3 & 6), GDOT, GA. *Project Manager* of three-year, $12M project to provide ***safety analysis*** and ***design service*** support for GDOT Districts 3 and 6. Responsibilities are to advance safety projects through preliminary traffic engineering and Concept Report phases and complete preliminary and final design. Typical safety projects include ***Road Safety Audits***, evaluation & recommendation of ***safety countermeasures***, and project initiation and plan preparation for safety improvement projects. Projects have included intersection conversion to a roundabout, DDI or other safer intersection forms. As part of this project, developed Intersection ***Control Evaluation (ICE) tool*** to automate the evaluation and recommendation for the safest and most ***cost-effective intersection control type improvements***.
07/18 – Ongoing	Feasibility Studies Limited Services Contract for NCDOT. *Project Manager*. Responsible for managing team in providing array of services including traffic and ***safety data collection*** and forecasting, ***alternative development*** and analysis, project scoping, ***concept development layout and design***, environmental, hydraulic, utility, and structural reviews, cost estimating and project programming and prioritization. Also performing express design services to expedite project delivery.
10/14 – 03/15	SR 141/State Bridge Road Innovative Intersection, City of Johns Creek, GA. *Project Manager.* Developed and modeled ***innovative intersection concepts*** to improve one of the worst intersections in North Fulton County. Provided concept design for both a dual-median U-turn (thru intersection) and median U-turn / Continuous Flow Hybrid alternatives. Vissim simulation model results showed a 75% reduction in travel delay and a 25% increase in intersection capacity without any substantial right-of-way requirements. Concept is awaiting funding.
07/07 – 10/08	I-75 NW Corridor Draft Environmental Impact Study, GDOT, Cobb and Cherokee Counties, GA. *Lead Task Manager.* Traffic analysis and IMR/IJR development to support EIS document for $834 million managed lane corridor to improve 26 miles on I-75 and I-575. Supervised the traffic forecasting using ARC 20-county model projections, traffic analysis of study area roadway and intersections (using Synchro / Vissim), and evaluation of impacts and proposed mobility and ***safety mitigation measures***. Managed development of the ***largest IMR/IJR project ever undertaken in the state***, which included microsimulation analysis of all new and modified managed-lane and general-purpose interchanges in the corridor. The IMR/JR was ***approved months ahead of schedule*** because FHWA had no comments to address from the first submittal package.
09/09 – 03/11	Roswell Historic Gateway Transportation Improvement Project, City of Roswell, Roswell, GA. *Project Manager.* Study to perform public involvement, traffic analysis, design concept, environmental study and EA document preparation, and preparation of preliminary plans to improve Atlanta Street between SR 120 and the Chattahoochee River (1.5 miles) by removing a current reversible lane system. Study included innovative solutions to solve controversial project needs, including multi-lane roundabouts, non-traditional interchange concepts and ***context sensitive design*** to minimize impact to adjacent National Park Service and historic properties while enhancing business development opportunities in this important historic corridor. Project received the ***2012 Georgia Partnership for Transportation Quality award for Best Context Sensitive Design and Public Participation.***
01/19 – 03/20	NCDOT Congestion Management /Innovative Intersection Guide project. *Lead Author* in development of the Quadrant Roadway Intersection Informational Guide published by FHWA through a partnership with NCDOT. Guide is the 5th in a series on innovative intersection designs and highlight national experience with this emerging new intersection form, designed to ***reduce congestion at bottleneck intersections.*** There have been four Quadrant Roadways built in the US, and the Guide draws on experience and operational analysis of this new intersection form to encourage other DOT's to implement where appropriate.

Firm employed by	ARCADIS		
Name	Jody Peace, PE, PTOE, RSP	Years of relevant experience with this employer	14
Title	Senior Traffic and Safety Engineer	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		MS / 2008 / Civil Engineering, Georgia Institute of Technology BS / 2007 / Civil Engineering, Georgia Institute of Technology	
Active registration number / state / expiration date		PE.036665 / GA / Exp. 12/2022; PTOE #4029 / USA / Exp. 3/2024; RSP #224 / USA / Exp. 12/2024	
Year registered	2011	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Peace is a Senior Traffic & Safety Engineer with experience in transportation safety engineering and planning. Mr. Peace's current responsibilities include travel demand modeling, traffic simulation, current and future traffic analysis, traffic and corridor studies, crash and safety analysis, and air quality analysis. He has experience in conducting Road Safety Assessments and applying Highway Safety Manual Methods to quantify the effectiveness of safety improvements and countermeasures. Mr. Peace has presented on a variety of transportation topics to student and professional groups.
10/11 – 04/12	**Traffic and Crash Analysis: Canal Blvd Bus / Streetcar Terminal Environmental Assessment, New Orleans Regional Transit Authority; Orleans Parish, LA.** *Safety Engineer.* Lead modeler responsible for the development and analysis of the extension of a streetcar line in New Orleans. Responsibilities included overseeing the development of Synchro and Vissim models, summarizing model results and developing 3D visualizations for use in the public involvement process, and *conducting crash and safety analysis*.
07/07 – 04/15	**Revive 285 Top End, Georgia DOT, Metro Atlanta, GA.** *Safety Engineer.* Responsible for modeling and analyzing approximately 98 centerline miles and 100 intersections across the northern portion of I-285 in Atlanta. Model development tasks included calculating subarea demand from the regional transportation model, interpolating 15-minute travel demand from the peak period model, weighing impacts due to proposed transit changes, working with designers to create model geometry, model calibration, model output analysis, alternatives comparison, and simulation development.
05/19 – 10/21	**SR 6 Corridor Study, Paulding County DOT, Hiram, GA.** *Project Manager.* Lead the traffic analysis for a long-range corridor study for a major US highway in Metro Atlanta. Scope of work included operational analysis and conducting *Road Safety Assessments* by leading a *multi-disciplinary safety walkthrough* of the corridor. Safety walkthrough included a team review of the historic crash data and in-field review of high crash intersections to identify potential causes and *quantifying the effectivness of potential mitigations*.
3/18 – Ongoing	**Safety On-Call, Districts 3 and 6, Georgia DOT, Western Georgia.** *Safety Engineer*. Assisted the project team in coordinating *safety improvements* with adjacent projects and participated as needed in *Road Safety Assessments*. Overall project scope included the *identification, prioritization, and development of projects at high crash intersections* and corridors in Districts 3 and 6 for GDOT.

Firm employed by					
Name	Clarke Chauvin, PE, PTOE, PMP		Years of relevant experience with this employer	6	
Title	Traffic Engineer		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization			BS / 2013 / Civil Engineering		
Active registration number / state / expiration date			PE.041770 / LA / Exp. 09/2023; PTOE #4337 / USA / Exp. 11/2023 PMP #1812148 / PA / Exp. 11/2023; IMSA # BE_125780 / USA / Exp. 09/2025 (Traffic Signal Field Technician II); IMSA # SI_125780 / USA / Exp. 08/2025 (Traffic Signal Inspector)		
Year registered	2017	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities.			Traffic Signal Design & Timing, Traffic Signal Inventory		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Chauvin is a Traffic Engineer and Project Manager with over ten years of experience in traffic engineering including traffic signal design, traffic signal inventory, ITS design, communications design, CE&I, and maintenance. He is a certified ATSSA Traffic Control Supervisor/Technician and has certification as an IMSA Traffic Signal Technician – Level II and Inspector. **Mr. Chauvin has completed LADOTD Traffic Engineering Process and Report Training.**
08/15 – 07/19	**Adaptive Traffic Signal System Design, SASOL Lake Charles Chemical Project –SASOL, Calcasieu Parish, LA.** *Traffic Engineer.* In support of the $8.9 billon ethane cracker chemical plant expansion, provided *signal design* support for multiple intersections. His efforts included developing preliminary signal permit plans, *signal timing models (Synchro)*, conducting field investigations and *traffic signal inventory*, providing quantities, constructability reviews, and signal construction inspection. Additionally, Clarke provided support for the *first Adaptive corridor installed in the state of Louisiana*.
02/18 – 07/19	**System B (LA 108) Corridor Adaptive Traffic Signal Design, LADOTD, Calcasieu Parish, LA.** *Project Manager.* Responsible for the *design and implementation* of the System B *adaptive traffic signal corridor*, including *traffic signal inventory*. In addition to allocating IP addresses, configuring devices (both for network communication and signal operation), and managing construction and coordination, Clarke worked to bring an isolated traffic signal into the adaptive system through cellular communication. The communication system is currently active and the signals have been integrated into DOTD's adaptive system. Clarke is currently responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify DOTD with issues.
06/18 – 07/19	**US 90 Corridor Adaptive Signal Design, LADOTD, Calcasieu Parish, LA.** *Project Manager.* Responsible for *traffic signal network design*, *traffic signal inventory*, and construction project management for the US *90 adaptive traffic signal corridor* in Westlake, LA. The communication system is currently active, and the signals have been integrated into DOTD's adaptive system. Clarke is currently responsible for ongoing maintenance and performance monitoring and has set up network management software to collect performance data and notify DOTD with issues.
03/19 – 04/20	**US 171 Corridor Adaptive Traffic Signal Design, LADOTD, Calcasieu Parish, LA.** *Project Manager.* Responsible for performing *traffic signal network design, integration, and performance* monitoring for the *Adaptive traffic signal corridor* installed in Sulphur, LA. Phasing construction to set up communications prior to the Adaptive turn on in November 2019 allowed a baseline

	for traffic operations to compare against active Adaptive system operation. Utilized NMS software to evaluate the network communications for speed, uptime, and reliability. Performance monitoring for the project is ongoing.
04/19 – 05/20	LA 1256 (Ruth St.) Corridor Adaptive Traffic Signal Design, LADOTD, Calcasieu Parish, LA. *Project Manager.* Responsible for *traffic signal design* and *communication network design* for the corridor. Clarke allocated IP addresses for the devices and equipment at each signal along the corridor. He evaluated the path required for VLAN through an existing DOTD fiber optic ring for communication between the project site and DOTD D07 TMC. He performed wireless testing to evaluate whether 2Ghz or 5Ghz band frequencies would provide better performance along the corridor. He determined proper configuration for each network switch and wireless radio along the corridor.
02/19 – Ongoing	ITS Maintenance, LADOTD, Statewide, LA. *Traffic Engineer.* Clarke has served as a pre-professional and now as engineer for the existing ITS Maintenance Retainer. He has performed routine maintenance on emergency crossover gates, travel time message system, CCTV camera sites, RVD sites, ramp meter sites as well as DMS sites. His skills include, but are not limited to, device troubleshooting, communication and network troubleshooting, parts replacement, site cleaning, insect extermination, traffic control setup, as well as coordinating with law enforcement, TMC operations staff, and DOTD.

Firm employed by	BONTON ASSOCIATES		Meets MPR No. 4
Name	LaDarien Beene, PE, PTOE	Years of relevant experience with this employer	1
Title	Traffic Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		BS / 2013 / Civil Engineering	
Active registration number / state / expiration date		PE.45333 / LA / Exp. 09/2023 PTOE #5062 / USA / Exp. 08/2024	
Year registered	2021	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities.		Traffic Modeling and Studies, Roadway Design	

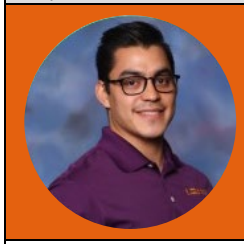
Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Beene specializes in project management and delivery of transportation projects at Bonton including roadway design, roadway rehabilitation, ADA compliance, and multi-use path design. Additionally, Mr. Beene gained extensive traffic engineering experience while serving 8 years in the LADOTD Traffic Management Section. Mr. Beene specializes in traffic studies and modeling using Synchro, Highway Capacity Software, Sidra, and Vissim (microsimulation), intersection and corridor analysis, signal warrant analysis, and traffic data collection and analysis. **Mr. Beene meets MPR #4 and has completed LADOTD Traffic Engineering Process and Report Training.**
01/17 – 01/21	**I-12 and Range Avenue Traffic Study and IMR, LADOTD, Livingston Parish, LA.** *Lead Traffic Engineer*: Responsible for reviewing ***corridor analysis***, analyzing crash data identifying crash patterns and trends, conducted ***signal warrant analysis***, determined appropriate but cost-effective countermeasures, applied ***access management techniques*** and produced ***signal retiming***, updated ***traffic signal inventory***, and determined pedestrian accommodations at the existing signals.
01/15 – 12/15	**LA 347 at I-10 Roundabout Study, LADOTD, Lafayette Parish, LA.** *Lead Traffic Engineer*. Responsible for developing and writing roundabout report. Responsibilities included conducting ***traffic data collection***, pulling and quantifying crash data, performing ***existing and alternative intersection analysis*** with Sidra and projecting traffic volumes.
05/15 – 05/16	**I-10 at LA 47 & LA 3021**- *Traffic Engineer*: Responsible for coordinating with consultants in determining which signals needed to be removed or upgraded. Responsibilities included reviews of initial data collection, crash summaries, ***warrant analysis***, ***traffic signal inventory***, final data collection and new proposed TSI's and ***Final Signal Reports***.
08/21 - Ongoing	**LA 73: US 61 (Airline) to Essen Lane Roadway and Sidewalk Improvements, LADOTD, East Baton Rouge Parish, LA.** *Roadway Designer*. Responsible for development of ***design plans*** for roadway rehabilitation, sidewalk repair, curb gutter repair/replacement, and ***installation of Americans with Disabilities Act (ADA) facilities*** in ***compliance with LADOTD design guidelines***. These design improvements were in conjunction with the roadway replacement improvements designed between Essen Lane and Drusilla Lane.
05/21 – 09/22	**S. Harrell's Ferry Rd. Multi-Use Path, City of Baton Rouge, East Baton Rouge, LA**. *Roadway Designer*. Responsible for ***preliminary and final design plans for a multi-use path***, ADA compliant facilities, and striping modifications to ***increase pedestrian and bicycle mobility*** along S. Harrell's Ferry Rd. and connectivity to existing sidewalks.

Name	Anthony Moore, PE	Years of relevant experience with this employer	5
Title	Senior Traffic and ITS Engineer	Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization		BS / 1994 / Civil Engineering, University of Missouri	
Active registration number / state / expiration date		PE.0037887 / LA / Exp. 09/30/2023	
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Signal Design and Timing	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Moore is a Senior Traffic and ITS Engineer and has extensive experience in traffic and ITS engineering, design, signal timing development and deployment, and Intelligent Transportation System (ITS) design. He has more than 27 years of experience in the fields of traffic and safety analysis, signal design, and ITS design. As an ITS CE&I Engineer, his focus has been safety during construction and future maintenance of constructed components. He has successfully worked on projects at the Louisiana Department of Transportation and Development (LADOTD), Florida DOT, Missouri DOT, Kansas DOT, Texas DOT, City of Kansas City, Missouri, City of Olathe, City of Gainesville, Florida, and Lee County, Florida. Other certifications include: ATSSA TCS, TCT, Flagger. **Mr. Moore has completed LADOTD Traffic Engineering Process and Report Training.**
04/19 – 12/19	**Traffic Signal Design IDIQ - US 90 Traffic Signal Timing Upgrades/LADOTD, Lafayette Parish, LA.** *Senior Traffic Engineer.* Responsible for project tasks involving ***traffic data collection*** and analysis, ***traffic signal inventory***, peak period determination and observations, ***warrant analysis***, travel time runs, ***traffic signal timing analysis*** using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards.
02/19 – 08/21	**US 190 ITS Deployment, LADOTD, West Baton Rouge, Pointe Coupee and Landry Parishes, LA.** *Project Engineer.* Provide project Management and QA/QC services to LADOTD on ITS expansion project that includes the installation of approximately 48 miles of fiber optic communications cable, the ***interconnection of four traffic signals onto the LADOTD communications network***, and the installation of two communications HUB buildings. As Project Engineer, responsibilities include overseeing all aspects of construction and inspection including providing engineering support and ***quality control oversight*** to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD, including RFIs and shop drawings.
02/16 – 08/17	**Lake Charles ITS Phase 2, LADOTD; Calcasieu Parish, LA.** *Project Engineer*. Provide construction management services to LADOTD on ITS expansion project in the Lake Charles metropolitan area. The ITS expansion project includes the installation of ***fiber optic communications cable***, Dynamic Message Signs and Closed-Circuit Television cameras on I-10. As Project Engineer, responsibilities include overseeing all aspects of construction and inspection including providing engineering support and quality control oversight to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
08/21 – Ongoing	**I-10 US 61 to Laplace ITS Deployment, LADOTD, Ascension, St. James and St. John the Baptist Parishes, LA.** *Project Engineer*. Provide Project Management and QA/QC services to LADOTD on ITS expansion project that includes the installation of approximately 23 miles of fiber optic communications cable and conduit and the installation of ten Closed Circuit television cameras including four that will be solar powered. As Project Engineer, responsibilities include overseeing all aspects of construction and inspection including providing ***engineering support and quality control oversight*** to the contractor during

	construction, directing field inspectors, and maintaining project documentation required by LADOTD, including RFIs and shop drawings. ***traffic signal equipment upgrades and modifications***.
10/19 – 08/21	Alexandria ITS Deployment Phase 3, LADOTD, Rapides Parish, LA. *Project Engineer*. Provide construction management services to LADOTD on ITS expansion project in the Alexandria metropolitan area. The ITS expansion project includes the ***installation of fiber optic communications cable***, Dynamic Message Signs and Closed-Circuit Television cameras on US 71, US 165, and LA 28. As Project Engineer, responsibilities include overseeing all aspects of ***construction and inspection*** including providing engineering support to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
10/16 – 08/17	I-10 Bonnet Carre Emergency Crossing, LADOTD, St. John and St. Charles Parishes, LA. *Project Engineer*. Provide construction management services to LADOTD on ITS repair project in St. John and St. Charles Parishes. The ITS expansion project includes the ***installation of fiber optic communications cable***, one Dynamic Message Sign, and the repair of two emergency crossing gates on the elevated section of I-10 near the Bonnet Carre spillway. As Project Engineer, responsibilities include overseeing all aspects of ***construction and inspection*** including providing engineering support and quality control oversight to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
12/15 – 10/16	New Orleans Hospitality Zone, LADOTD, Orleans Parish, LA. *Project Engineer.* Provide construction management services to LADOTD on ITS expansion project in the New Orleans metropolitan area. The ITS expansion project includes the ***installation of Ramp Metering signals on 6 freeway entrance ramps to US 90B***, fiber optic communications cable, and Closed-Circuit Television cameras. As Project Engineer, responsibilities include overseeing all aspects of ***construction and inspection*** including providing engineering support and quality control oversight to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
12/12 – 06/16	New Orleans Core ITS, LADOTD, Jefferson and Orleans Parish, LA. *Project Engineer.* Provide construction management services to LADOTD on ITS expansion project in the New Orleans metropolitan area. The ITS expansion project includes the ***installation of fiber optic communications cable***, Dynamic Message Signs and Closed-Circuit Television cameras on I-10, I-610, and US 90B. As Project Engineer, responsibilities include overseeing all aspects of ***construction and inspection*** including providing engineering support and quality control oversight to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
03/13 – 8/15	Weigh In Motion, LADOTD, Jefferson and Orleans Parish, LA. *Project Engineer*. Provide construction management services to LADOTD on statewide weigh in motion upgrade project. The weigh in motion project includes the installation of fiber optic communications cable, Dynamic Message Signs, Closed Circuit Television cameras, and weigh in motion scales on I-10, I-12, and I-20. As Project Engineer, responsibilities include overseeing all aspects of ***construction and inspection*** including providing engineering support to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
06/14 – 11/15	Dynamic Message Sign (DMS) Ladder Statewide, LADOTD, Statewide, LA. *Project Engineer.* Provide construction management services to LADOTD on DMS Ladder project to install new DMSs and ladder/walkway systems on existing DMS poles. As Project Engineer, responsibilities include overseeing all aspects of ***construction and inspection*** including providing engineering support to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.

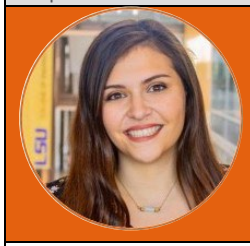
Firm employed by	ARCADIS		
Name	Max Aguirre, PhD, PE, RSP	Years of relevant experience with this employer	3
Title	Traffic and Safety Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		PhD / 2018 / Engineering Science, LSU; MS / 2015 / Construction Management, LSU; BS / 2013 / Civil Engineering, LSU	
Active registration number / state / expiration date		PE.052016 / NC / Exp. 12/2022; RSP #636 / USA / Exp. 8/2024	
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Dr. Aguirre has experience working on projects for Louisiana Department of Transportation and Development (LADOTD) pertaining to traffic and safety studies, feasibility studies, pedestrian and bicycle improvements, permanent signing design, signal design, and NEPA studies. He is also familiar with the Highway Capacity Manual, Highway Safety Manual, MUTCD, and AASHTO "Green Book". Dr. Aguirre is also knowledgeable in the application of several software programs including IHSDM, Synchro, GuidSIGN, HCS and MicroStation software. **Dr. Aguirre has completed LADOTD Traffic Engineering Process and Report Training.**
08/19 – 02/20	**Traffic Engineering IDIQ - US 61 Access Management and Corridor Improvements (Airline Hwy) Feasibility Study, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer.* Project purpose was to evaluate the effectiveness of proposed *access management improvements* along US 61 and identify *feasible alternatives* to maximize operational and safety benefits. Evaluated the need for pedestrian and bicycle accommodations based on historical crash data and adjacent land use. Assisted in conducting traffic analysis and the development of *benefit-cost analysis* to compare the effectiveness of the proposed alternatives.
09/19 – 06/21	**Safety Studies IDIQ - Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA.** *Traffic and Safety Engineer.* Assisted with the *assessment of existing and future safety deficiencies* related to pedestrian and bicycle modes at identified high-risk intersections and segments in East Baton Rouge Parish. Assisted with the development of screening criteria to identify high priority locations with a history of pedestrian and/or bicycle crashes. Conducted *Road Safety Assessments (RSAs)* at 10 priority locations to identify and evaluate safety deficiencies and *develop safety countermeasures* to *improve safety for pedestrians and bicyclists*.
10/19 – 07/21	**I-10 New Orleans to Slidell Hard Shoulder Running Traffic and Safety Feasibility Study, LADOTD, Orleans Parish, LA.** *Traffic and Safety Engineer*. Purpose of the project was to evaluate the feasibility of implementing HSR lanes along I-10 to *alleviate existing bottlenecks and congestion* along critical segments of the corridor. Assisted in *safety analysis* and development of conceptual drawings and typical sections for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell.
11/20 – Ongoing	**I-10 CMAR Traffic Engineering Services, LADOTD, East Baton Rouge Parish, LA.** *Traffic and Safety Engineer.* Assisting in 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. Assisted in the development of *existing condition safety analysis* including tasks such as *crash data analysis, collision diagrams, and crash report documentation*.

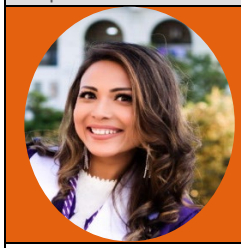
Firm employed by	ARCADIS		
Name	Kwaku Boakye, PhD, PE, PTOE, RSP	Years of relevant experience with this employer	5
Title	Traffic and Safety Engineer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		PhD / 2017 / Civil Engineering, MS / 2014 / Civil Engineering, BS / 2009 / Civil Engineering MS / 2017 / Statistics	
Active registration number / state / expiration date		PE.047513 / GA / Exp. 12/2022; PTOE #5136 / USA / Exp. 11/2024; RSP #579 / USA / Exp. 04/2024	
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Dr. Boakye has extensive experience in road safety, traffic engineering, and design of highways and streets. Since joining Arcadis in August 2017, he has worked on several projects across Southeastern United States including safety improvement projects, traffic signal projects, intelligent transportation system projects, intersection and corridor traffic studies, roadway concept design,and road safety studies. With over 10 years of experience in road safety research, he has published several articles in top-tier transportation journals related to intersection safety and vehicle occupant protection. Kwaku combines his research experiences and technical skills in conducting traffic and safety evaluations utilizing nationally accepted guidelines, standards, manuals, and engineering tools. His enthusiasm for the transportation profession has earned him several honors and awards at the national, state, and local levels. He serves as a technical member on Transportation Research Board Committee (ACS40).
08/17 – Ongoing	**Safety IDIQ Contract, GDOT, GA.** *Staff Engineer.* Responsible for ***safety evaluation of several existing interchanges and intersections*** in Georgia using GDOT ***ICE tool***. Also responsible for conceptual designs, preparing ***traffic engineering studies***, and concept reports.
08/17 – 05/18	**I-40 at U.S. 64/SR 15 Interchange Interstate Access Request (IAR), TDOT, Shelby County, TN.** *Staff Engineer*. Conducted ***traffic and safety analysis*** and developed Interchange Access Request documentation. Alternatives were developed, a standard diverging diamond and diverging diamond interchange, to remove substandard vertical clearance and ***improve safety and operations***. Both alternatives have received FHWA approval, allowing TDOT to select the best option during the design phase.
06/18 – 05/19	**SR-29 (Oneida Bypass) From 5-lane section south of Oneida to 5-lane section north of Oneida, TDOT, Shelby County, TN.** *Staff Engineer.* Tasks included data review and problem determination, developing ***crash analysis and diagrams***, holding a field review with TDOT staff, conducting operational analyses utilizing Synchro and Highway Capacity Software, development of conceptual layouts, ***predictive safety analysis using Highway Safety Manual*** generating a cost estimate and completing a technical report detailing the study, analyses, and recommendations.
01/18 – 06/18	**State Route 58 Intersection at State Route 312, TDOT, Hamilton County, TN.** *Staff Engineer* assisting in the development of construction plans for State Route 58 at State Route 312 (Birchwood Pike). This project included roadway design for two "J" turns along the median of State Route 58 to accommodate ***safety and access management improvements***.

Firm employed by	ARCADIS		
Name	Meredith Guidry, EI, RSP	Years of relevant experience with this employer	2
Title	Traffic Engineer Intern	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2020 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date		EI.0034822 / LA / Exp. 09/2023; RSP #861 / USA / Exp. 7/2025;	
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Guidry has experience in traffic engineering and roadway safety analyses. Ms. Guidry held two internship positions while obtaining her undergraduate degree from Louisiana State University, at which she gained experience in traffic flow analyses and general civil projects. Ms. Guidry has assisted in a variety of project tasks including crash safety analyses, volume analyses, writing Intersection Modification Reports, and developing intersection and traffic signal models. Her software skills include Synchro, Highway Capacity Software, Sidra, ArcGIS, MATLAB, Maple, and MicroStation. **Ms. Guidry has completed LADOTD Traffic Engineering Process and Report Training.**
02/21 – Ongoing	**I-10 CMAR, LADOTD, East Baton Rouge Parish, LA**. *Traffic Engineer Intern*. Assisted with several traffic engineering tasks including development of permanent signing plans, traffic signal 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. Created ***traffic models using Synchro and Sidra*** to predict traffic conditions for the build scenario and during construction. Assisted in the development of historical and predictive crash and safety analysis for the corridor. Responsible for addressing FHWA's 8 policy points and the associated policy point checklist for the Access Justification Report.
07/22 – Ongoing	**LA 30 Environmental Assessment, LADOTD Ascension and East Baton Rouge Parishes, LA.** *Traffic Engineer Intern.* Responsible for recording queue lengths, unmet demand, and ***field observations*** during field visits at several intersections. Responsible for writing several appendices following LADOTD's ***Traffic Engineering Process and Report*** requirements and expectations. Also responsible for conducting peak period determination.
04/21 – Ongoing	**MOVEBR Terrace Ave, City of Baton Rouge, East Baton Rouge Parish, LA.** *Traffic Engineer Intern.* Responsible for conducting ***signal warrant analyses***, creating an inventory of crash data and for correcting data from Crash1 based on crash reports.
03/21 – 5/21	**MOVEBR Bluebonnet Blvd (Perkins Rd- Picardy Ave), City of Baton Rouge, East Baton Rouge Parish, LA.** *Traffic Engineer Intern.* Responsible for collecting ***traffic counts*** and cross-checking queue length data with ***Synchro results***.
04/21 – 11/21	**MOVEBR Lee Dr (Highland Rd-Perkins Road), City of Baton Rouge, East Baton Rouge Parish, LA.** *Traffic Engineer Intern.* Responsible for collecting crash data and presenting that information in Collision Diagrams. Responsible for marking locations with high potential for improvement based on crash data. Responsible for performing ***field observations to document existing traffic conditions***.

Firm employed by	ARCADIS		
Name	Shafia Nazneen	Years of relevant experience with this employer	1
Title	Traffic Engineer Intern	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2021/ Civil Engineering, Louisiana State University	
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Nazneen is a Traffic Engineer with experience in traffic engineering and roadway safety analyses. Ms. Nazneen held an internship position with LADOTD while obtaining her undergraduate degree from Louisiana State University, at which she was involved in various ITS projects and gained experience in traffic studies. Ms. Nazneen has assisted in a variety of project tasks including traffic analysis, volume development, and crash analysis. She has experience and proficiency in Synchro, Highway Capacity Software, Sidra, Vistro, GuideSIGN, and MicroStation. **Ms. Nazneen has completed LADOTD Traffic Engineering Process and Report Training.**
06/22 – Ongoing	**LA 30 Environmental Assessment, LADOTD, Ascension and East Baton Rouge Parishes, LA.** *Traffic Engineer Intern.* Responsible for providing ***traffic data collection***, and historical crash and safety analysis, ***volume demand diagrams*** and ***traffic analysis*** for all intersections in the project area.
02/22 – 06/22	**LA 3040 Corridor Study, LADOTD, Terrebonne Parish, LA.** *Traffic Engineer Intern.* Assisted with several traffic engineering tasks including ***volume demand diagrams***, CAT Scan analysis, ***queue maps for both existing and no build conditions,*** and ***traffic analysis using HCS***. Also responsible for writing several appendices following LADOTD's Traffic Engineering Process and Report requirements and expectations.
01/22– Ongoing	**I-10 CMAR, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer Intern*. Developed the Engineering Reasoning and Decision Documents (ERDDs) for ***existing and proposed signing plans***.
01/22 – Ongoing	**MOVEBR Lee Dr (Highland Rd-Perkins Road), City of Baton Rouge, East Baton Rouge Parish, LA.** *Traffic Engineer Intern.* Responsible for conducting ***traffic analysis*** using Synchro.
08/22 – Ongoing	**LADOTD, Cross Bayou Bridge Replacement, Bossier Parish, LA**. *Traffic Engineer Intern*. Responsible for multiple traffic engineering tasks including ***volume demand diagrams***, collecting crash data, and presenting that information in Collision Diagrams. Also responsible for conducting ***peak period determination***.
10/22 – Ongoing	**City of Baton Rouge, MOVEBR Airline Highway, North (Florida Blvd. To Interstate 110), East Baton Rouge Parish, LA.** *Traffic Engineer Intern.* Responsible for ***developing volume diagrams***, ***traffic analysis*** for all intersections in the project area. Also responsible for developing the ***traffic models using HCS*** for both existing and no build conditions.

Firm employed by			
Name	Colin Francis, EI	Years of relevant experience with this employer	0.5
Title	Traffic Engineer Intern	Years of relevant experience with other employer(s)	0.5
Degree(s) / Years / Specialization		BS / 2021 / Civil Engineering	
Active registration number / state / expiration date		EI.035053 / LA / Exp. 09/2024	
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Traffic Modeling & Studies (Intersection, Corridor, Network Analysis / Warrant Analysis)	

Experience dates	Experience and qualifications relevant to the proposed contract
	Colin is a recent graduate and has just over a full year of combined experience as a student intern and post-graduate Engineer Intern. Colin has assisted with a variety of traffic studies, traffic analysis and modeling, safety analysis, signal warrant studies, and traffic signal design projects. Additionally, Colin has been part of different aspects of ITS maintenance and installation work including CCTV camera testing and configuration, radio testing, and fiber testing. **Colin has completed the LADOTD Traffic Engineering Process and Report Training.**
12/21 – 05/22	**US 190 at Market Street Extension Traffic Study, Tangipahoa Parish, LA.** *Traffic Engineer Intern.* The scope of this study included *traffic engineering services* and permit assistance to Tangipahoa Parish Government for the Farris Property Development. Eleven intersections were included in traffic evaluations and analysis. This *study conformed with the LADOTD Traffic Engineering Policy and Report (TEPR) requirements* and amended directions included in the LADOTD COVID-19 Traffic Impacts Policy, consisted of traffic counts, turning movement counts, and driveway/residential roadway counts during the peak hour. Colin assisted with the preparation of the drafts and the final report, which included collected data, the existing safety analysis, the *existing and no build analysis*, and the *alternative analysis*. He compiled initial *traffic count data* to determine the peak period of traffic for the study area and reviewed crash data from LADOTD to complete the existing safety analysis and crash diagrams.
12/21 – 05/22	**LA-93 (Westgate Road) at Eraste Landry Road Intersection Traffic Study, City of Scott, Lafayette Parish, LA.** *Traffic Engineer Intern.* Assisted with the *traffic study* to determine modification of the intersection to add a traffic signal. The temporary traffic signal at the intersection was needed to accommodate traffic during construction which resulted in an adjacent roadway closure. Assisted with volume *forecasting and capacity analysis* as well as *TEPR report documentation*, and *signal design*. The approval coordination included the LADOTD District 03 staff, Headquarters, and the Lafayette Consolidated Government.
12/21 – 05/22	**Elm Grove Garden Pedestrian Improvements, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer Intern.* Elm Grove Garden Drive is a residential street with a public elementary school where there is an existing sidewalk on the school property but not along the corridor. The goal of this project is to provide 1.68 total miles of *pedestrian facility improvements along the entire corridor*. The residents of this area regularly travel to work, school, commerce, and recreation via walking and biking. The existing drainage facilities include open-ditch systems but will be upgraded as needed to accommodate the sidewalk construction. Colin assisted in MicroStation project plan design files.
05/22 – Ongoing	**ITS Maintenance, LADOTD, Statewide, LA.** *Traffic Engineer Intern.* Colin is performing maintenance, troubleshooting, and installation functions on the existing LADOTD ITS Maintenance Retainer. He has performed routine maintenance on CCTV camera sites, RVD sites, ramp meter sites, and DMS sites. His skills include device troubleshooting, communication and network troubleshooting, parts replacement, and site cleaning.

Firm employed by	ARCADIS		
Name	Joshua Cook, EI	Years of relevant experience with this employer	1
Title	Traffic and Safety Engineer Intern	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		BS / 2021 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date		EI.0035142 / LA / Exp. 09/30/2024	
Year registered	2022	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Safety	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Cook is a Traffic and Safety Engineer with experience in traffic engineering/design and roadway safety analysis. Throughout his collegiate and early career, Mr. Cook has obtained a wide range of experience within the transportation field, including collecting and analyzing roundabout vehicle data, crash history analysis, LADOTD CATScan Tool, and construction project management of electrical/mechanical/structural projects. Since joining Arcadis, Mr. Cook has experience working on projects for LADOTD, ALDOT, and GDOT including but not limited to, signal timing calculation, signal design, and safety analysis. He has experience and proficiency in Synchro, Sidra, HCS, and MicroStation software.
09/21 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. *Safety Analyst.* Responsible for preparing engineering reasoning and decision documents (ERDDs), ***historical crash analysis***, preparing ***collision diagrams***, proposed signing plans, signal design plans, and integrating traffic volumes for I-10 Mainline and Intersection into a HCS model.
06/22 – Ongoing	LA 30 Environmental Assessment, Ascension and East Baton Rouge Parishes, LA. *Safety Analyst.* Responsible for preliminary intersection modelling, ***crash data collection***, ***CAT Scan analysis***, creating ***collision diagrams***, crash report documentation, and ***safety analysis*** documentation.
06/21 – Ongoing	MOVEBR Lee Dr (Highland Rd-Perkins Road), City of Baton Rouge, East Baton Rouge Parish, LA. *Safety Analyst.* Responsible for conducting ***existing safety analysis*** including ***crash history review*** and ***collision diagrams***.
07/21 – 11/21	I-49 SEIS, LADOTD, St. Mary Parish, LA. *Traffic Analyst*. Responsible for carrying out a build volume development methodology transforming US90 to I-49 along a section near Morgan City including redistribution of U-turns, assigning volumes to proposed interchange locations, and estimating and redistributing internal-to-internal trips throughout the corridor.
06/21 – 08/21	SR 59-Loxley-Robertsdale Signal Timing Improvements, ALDOT, Loxley-Robertsdale, AL. *Traffic Analyst.* Responsible for traffic signal timing calculations for SR 59 through Loxley-Robertsdale and developing a base model of the corridor via Synchro, implementing optimal signal timing and cycle lengths.
06/21 – 08/21	US98 SCOOT Signal Timing Improvements, ALDOT, Daphne, AL. *Traffic Analyst.* Responsible for traffic signal timing calculations for US98 SCOOT from Spanish Fort through Fairhope and developing a base model of the corridor via Synchro, implementing optimal signal timing and cycle lengths.
10/22 – 10/22	SR 155 at E Lake Rd, McDonough, GDOT, GA. *Safety and Traffic Analyst.* Responsible for creating Synchro and Sidra models and ***evaluating safety benefits*** for potential improvements to the SR 155 at E Lake Rd intersection and calculating volume growth rates for ICE analysis.

PERSONNEL RESUMES

TRANSPORTATION PLANNERS

Firm employed by	ARCADIS		
Name	Julie Price, AICP	Years of relevant experience with this employer	6
Title	Senior Transportation Planner	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		MA / 2005 /Urban & Regional Planning; BA / 2003 / Urban & Regional Planning	
Active registration number / state / expiration date		AICP #176869 / USA / Exp. 03/2024	
Year registered	2007	Discipline	Stage 0 / Planning / Environmental
Contract role(s) / brief description of responsibilities			

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Price has 21 years of experience as a professional urban and transportation planner. She has worked for local and regional governments managing various programs, performing land use and transportation studies, and developing streetscape plans. Julie performs traffic analysis to mitigate negative impacts of major developments around the region. Her local expertise includes performing site plan and plat reviews, rezoning and variance analyses, zoning certification, sign permits, and building permits. Julie identifies trends and makes forecasts related to long-range planning efforts. She surveys, workshops, and public meetings, and mediates negotiations to achieve resolutions among stakeholders and clients.
10/15 – Ongoing	**Corridor Study for Downtown Connector, GDOT. Atlanta, GA.** *Planner* for the development of the new MPO's first long-range regional transportation plan including socio-economic data forecasts, existing conditions and ***needs assessment***, performance-based project list development, and public and stakeholder engagement.
10/10 – 10/11	**Comprehensive Transportation Plan, Cobb County. Marietta, GA.** *Planner.* Organized and executed three focus group sessions, interviewing stakeholders and community members during the listening tour, website design and updates, and responding to inquiries via website and email. Led the Health Impact Assessment (HIA) development including stakeholder committee communication, meeting facilitation, HIA review and recommendations. Assisted with the development of existing conditions and ***needs assessment***, project commendations, and ***project evaluation and prioritization***.
09/14 – 07/16	**Cartersville-Bartow MPO Planning, Bartow County. Cartersville, GA.** *Planner.* Responsible for compiling a wide range of options from multiple sources, including those previously identified in plans and studies, stakeholder input, new options established through ***needs assessments***, and ***best practices/innovative strategies*** for similar projects.
09/13 – 11/13	**Martin Luther King Jr. Drive Improvements, City of Atlanta. Atlanta, GA.** *Planner* on this ***complex corridor project***. Julie coordinated with the city, project engineers, consultant teams, and subcontractors to craft and deliver relevant, cohesive messaging. Julie communicated the most relevant engineering and cost information, and effectively captures public input and comments in a way that can guide the overall project.
03/14 – 12/15	**SR 5/Bright Star Road Transportation Study, City of Douglasville. Douglasville, GA.** *Planner.* Activities include organizing and facilitating stakeholder and technical committee meetings, ongoing directed communication with these committees to receive valuable and impactful information, preparing materials and agenda for public meetings, creating and dispersing advertisements for public meetings, existing conditions and ***data collection***, land use and economic analysis, ***alternatives analysis***, ***recommendations***.

Firm employed by	ARCADIS		
Name	Thomas Brown, RLA, ASLA	Years of relevant experience with this employer	1
Title	Landscape Architect	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		BLA / 2010 / Landscape Architecture, The University of Georgia	
Active registration number / state / expiration date		Registered Landscape Architect #1707 / Georgia / Exp. 12/2022	
Year registered	2014	Discipline	Landscape Architect
Contract role(s) / brief description of responsibilities.		Stage 0 / Planning / Environmental	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Brown is a landscape architect with 12 years of experience in the public and private sectors. He has worked on various project types and scales, from district-wide master plans and corporate campuses to urban plazas and community parks. His thoughtful approach to design and meticulous attention to detail has yielded beautiful, functional, and sustainable spaces across the world. The three principles which guide his design approach are, placemaking that prioritizes comfort and celebrates a project's unique cultural and environmental setting, resilient design that promotes the health of all living systems, and intentional collaboration between clients, consultants, and communities. Together these principles secure each project is delivered efficiently at its highest quality.
06/15 – 03/16	**The Ramble Master Plan, River City Company, Chattanooga, TN.** *Project Manager.* Led coordination between the client, stakeholders, and consultants and served as design and production lead. The project involved the master planning of Chattanooga's riverfront public realm between the Hunter Museum and the Tennessee Aquarium with a primary focus on accessibility, placemaking, *pedestrian safety*, and infill development.
07/21 – 02/22	**South Pittsburg Framework Plan, SPARQ, South Pittsburg, TN.** *Project Manager.* Manager in charge of client and stakeholder coordination, schedule and fee compliance, community engagement, staff management, and design of a riverside park and citywide *bicycle/pedestrian network*.
08/18 – 07/21	**Patten Parkway, City of Chattanooga, Chattanooga, TN.** *Landscape Architect*. Led design, detailing, documentation, and construction administration of the conversion of an underused, car-dominated public space, into a flexible, *vibrant shared-use street*. The project incorporated various amenities to support daily public use, adjacent businesses, special events, and gatherings as well as vehicular circulation and parking.
03/13 – 11/14	**Waterfront Botanical Gardens Master Plan, Botanica, Louisville, KY.** *Landscape Architect.* Led development of the final master plan and management of support staff. Also, as part of the design team helped establish the vision and programming for the award-winning botanical garden built on top of an old city dump. *Project won a 2017 National ASLA Award for Planning & Analysis*.
08/19 – 02/21	**Market + Georgia Public Space, Chattanooga Design Studio, Chattanooga, TN.** *Design lead.* Guided the development and refinement of the design for a dynamic, public space adjacent to Chattanooga's densest residential developments. The project reclaimed a series of neglected sidewalks and *established a new, multi-functional streetscape* that incorporated swings, tables, sidewalk art, and diverse seating options for the low-income housing project. Mr. Brown also co-led community engagement activities with a local artist. Project won a 2021 National ASLA Award for Urban Design.

PERSONNEL RESUMES

ENVIRONMENTAL PLANNERS & SPECIALISTS

Firm employed by	ARCADIS		
Name	Jan Hughes	Years of relevant experience with this employer	0.5
Title	Senior NEPA Specialist	Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization		BA, Anthropology, Louisiana State University, 1984	
Active registration number / state / expiration date			
Year registered		Discipline	
Contract role(s) / brief description of responsibilities.		Technical Advisory and QAQC (Stage 0 / Planning / Environmental)	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Hughes has 25 years of experience with the LADOTD Environmental Section preparing and overseeing analyses and documentation in compliance with the National Environmental Policy ACT (NEPA), Section 106 of the National Historic Preservation Act, and Section4(f) of the U.S. DOT Act. She oversaw consultant work on environmentally complex projects, including establishing and negotiating consultant environmental work effort and preparation of Environmental Impact Statements. She coordinated with federal, state, and local agencies as needed on projects as well as on other issues. She conducted public meetings, hearings, and other public involvement activities. In addition to the projects listed below, throughout her career, Jan has prepared and provided oversight for numerous Environmental staff and consultant prepared Environmental Assessments, Categorical Exclusions, and Re-evaluations of approved environmental documents. Training includes NEPA and Section 4(f), Section 106, Wetland Delineation, Endangered Species Act, Title VI/Environmental Justice, Environmental Streamlining and Stewardship, and Context Sensitive Solutions.
07/15 - 02/19	**I-49 South, I-10 to Lafayette Regional Airport, Route US 90/US 167, Supplemental Environmental Impact Statement (SEIS), LADOTD, Lafayette Parish, LA.** *Senior NEPA Specialist.* SEIS and follow-up to commitments made in the 2003 Record of Decision for the upgrade of this 5-mile portion of US 90/US 167 in urban Lafayette to a six-lane facility with frontage roads meeting interstate standards. Responsibilities included negotiating the consultant environmental work effort, carrying out the SEIS initiation process and re-initiation of Section 106 of the National Historic Preservation Act process, and ***oversight of consultant environmental work*** that includes extensive public involvement, updates to the standing structures survey and archaeology commitments, and follow-up to other commitments.
01/15 - 02/19	**Inner Loop Extension (LA 3132), E. Flournoy Lucas Rd (LA 523) to Future I-69 Corridor, Environmental Assessment, LADOTD and City of Shreveport, Caddo Parish, LA.** *Senior NEPA Specialist.* Extension of the Inner Loop on new alignment as a four-lane control of access facility from LA 523 to Future I-69 with interchanges and upgrades to adjacent roadways. Responsibilities included ***oversight of the environmental process*** and consultant preparation of the Environmental Assessment.
01/11 – 05/15	**Bayou Teche Bridge at Oaklawn, Route LA 323, Categorical Exclusion Re-evaluation, LADOTD, St. Mary Parish, LA.** *Senior NEPA Specialist.* Replacement of this one lane, swing span bridge built in 1942 with a two-lane bridge on existing alignment. The bridge was determined eligible for the National Register of Historic Places. Responsibilities included handling the Section 106 Consulting Parties process, preparation of the re-evaluation document, and preparation of the Section 106 Memorandum of Agreement and Programmatic Section 4(f) Statement for the adverse impact to the bridge, as

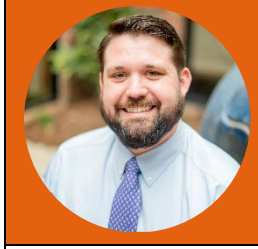
	well as the marketing and draft agreement for LADOTD's first ownership transfer of a historic bridge to another entity for alternative use.
04/01 - 12/06	I-49 South, Wax Lake Outlet to Berwick, Route US 90, Environmental Impact Statement, LADOTD, St. Mary Parish, LA. *Senior NEPA Specialist.* Upgrade of this 9.3-mile portion of US 90 to a four-lane facility with frontage roads meeting interstate standards. Responsibilities included ***oversight of the environmental process*** and consultant preparation of the environmental document.
04/01 - 10/05	I-49 South, Lafayette Regional Airport to LA 88, Route US 90, Environmental Impact Statement, LADOTD, Iberia/Lafayette/St. Martin Parishes, LA. *Senior NEPA Specialist.* Upgrade of this 10.8-mile portion of US 90 to a six-lane facility with frontage roads meeting interstate standards. Responsibilities included o***versight of the environmental process and consultant preparation of the environmental document***.
03/02 - 03/05	Huey P. Long Bridge, Route US 90, Environmental Assessment, LADOTD, Jefferson Parish, LA. *Senior NEPA Specialist.* Widening of the highway portions of this highway/railroad bridge from two 9-foot-wide lanes to three 11-foot-wide lanes. The bridge, built in the 1930s, was determined eligible for the National Register of Historic Places. Responsibilities included negotiating the consultant environmental work effort, oversight of the environmental process, coordination with the U.S. Coast Guard, New Orleans Public Belt Railroad, and Louisiana State Historic Preservation Officer, preparation of a Section 106 Memorandum of Agreement for the adverse impact to this historic bridge, and overseeing consultant preparation of the environmental document.
12/01 – 01/15	Inner Loop Extension (LA 3132), Ellerbe Road to Flournoy Lucas Road, Environmental Assessment, LADOTD and City of Shreveport, LA, Caddo Parish. *Senior NEPA Specialist.* Extension of the Inner Loop on new alignment as a four-lane control of access facility with interchanges and upgrade of adjacent roadways. Responsibilities included ***oversight of the environmental process and consultant preparation of the Environmental Assessment***.
02/94 - 08/98	Airline Highway (US 61), Florida Boulevard to Just North of Jefferson Hwy., Environmental Assessment, LADOTD, East Baton Rouge Parish, LA. *Senior NEPA Specialist.* Widening of this approximately 3.5-mile portion of Airline Highway from four lanes to six lanes. Responsibilities included handling the environmental process and preparing the ***Environmental Assessment*** and Programmatic 4(f) Statement for right-of-way impacts to an adjacent publicly owned park.

Firm employed by	ARCADIS		
Name	Jason Morrell, PWS	Years of relevant experience with this employer	9
Title	Senior Ecologist	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 1999 / Agriculture, University of Georgia	
Active registration number / state / expiration date		Professional Wetland Scientist – #2319 / USA / Exp. 04/2023	
Year registered	2013	Discipline	Wetland Science
Contract role(s) / brief description of responsibilities.		Stage 0 / Planning / Environmental	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Morrell has more than 20 years of experience in ecology and environmental planning, including over 16 years of consulting experience. Prior to joining Arcadis, he served as a NEPA Planner and Ecologist with the Georgia Department of Transportation (GDOT) evaluating environmental effects and completing permitting and environmental documentation for transportation projects. His area of expertise includes wetland delineation, biological assessment, and environmental permitting, with a focus on Clean Water Act Section 404 permitting and Section 7 Endangered Species Act (ESA) consultation. He is experienced working with the Federal Highway Administration (FHWA), US Army Corps of Engineers (USACE), US Fish & Wildlife Service (USFWS), and state resource agencies. Since 2011, Mr. Morrell has focused primarily on Transportation Ecology and is an active member of the Transportation Research Board Committee on Environmental Analysis and Ecology.
04/16 – Ongoing	**Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Livingston Parish, LA.** *Ecologist*. Led a ***wetland delineation and protected species habitat assessment*** along Range Road in the vicinity of the I-12 interchange for the proposed interchange improvement project. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, in support of the ***NEPA Environmental Assessment***.
10/15 – 04/18	**North Bayou Black Drive/Hanson Canal Bridge (OSBP) – LADOTD, Terrebonne Parish, LA**. *Ecologist*. Completed a technical review of the ***Biological Resources and Wetland Findings Report***, including required exhibits, prepared for the replacement this off-system highway bridge. Findings from the wetland delineation report were used for a USACE Jurisdictional Determination and Section 404 permit application.
07/16 – 03/18	**Bayou Sara Streambank Restoration, West Feliciana Parish Department of Public Works, West Feliciana Parish, LA**. *Ecologist*. Project involved stabilizing the streambank along approximately 3,600 feet along Bayou Sara, where severe erosion is impacting the Town of St. Francisville's Wastewater Treatment Facility, pond levees, and the Parish's only access road (Ferdinand Street) to the Mississippi River. Completed a ***wetland delineation and protected species habitat assessment*** within the area proposed for bank stabilization, as well as adjacent staging and access areas. Provided technical review of a ***Biological Resources and Wetland Findings Report***, including required exhibits, and NWP 13 PCN, including permit sketches for bank stabilization for which ***USACE authorization was successfully obtained***.
09/2019 – Ongoing	**Environmental Support Services IDIQ Contract, GDOT, Statewide, GA.** *Project Manager and Ecology Lead*. Responsible for management of embedded (support services) ecology and ***NEPA*** staff managing environmental studies on behalf of GDOT, including review of consultant documents. Design and develop ecology initiatives for the GDOT Office of Environmental Services (OES) including guidebooks and toolkits to update the ***Environmental Procedures Manual***, training materials for

	contractor prequalification, applications to streamline National Marine Fisheries Service Section 7 ESA and Essential Fish Habitat consultations, and other research initiatives.
07/14 – 07/19	Statewide Ecology Services IDIQ Contract GDOT, Statewide, GA. *Deputy Project Manager*. Responsible for managing embedded ecologists assigned management of ecology studies, permitting, and biological assessment for GDOT projects. Negotiated a menu of services task order for on-call ***environmental studies*** providing the client the flexibility to complete tasks quickly to meet project delivery schedules. Managed preparation and provided technical review of supporting ***NEPA documentation*** for federally funded ***infrastructure development and improvement projects***. Developed ecology toolkits, guidance documents, and templates for GDOT use and publication in collaboration with regulatory agencies and GDOT staff. Managed a research project evaluating the effectiveness of migratory bird mitigation measures on transportation projects and provided recommendations to GDOT for best management practices.
12/15 – 11/18	Reisor Subdivision Bridge Replacements, Union Pacific Railroad, Natchitoches Parish, Louisiana and Caddo Parish, LA/Harrison County, TX. *Lead Ecologist.* Responsible for ***wetland delineation and protected species habitat assessments*** for replacement of two structurally deficient railroad bridges on the Union Pacific Reisor Subdivision line. Completed ***wetland findings report***, including required exhibits, and calculated impacts to streams and wetlands for bridge replacements. Coordinated with design for impact avoidance and minimization and provided technical review of a Nationwide Permit (NWP) 14 Pre-Construction Notification (PCN), including permit sketches, submitted to the USACE Fort Worth District for the Caddo Parish, LA/Harrison County, TX bridge.
11/15 – 12/16	SR 234 at Chickasawhatchee Creek Bridge Replacement GDOT, Calhoun and Dougherty Counties, GA. *Lead Ecologist*. Responsible for ecology reporting, Section 404 permitting, and Section 7 Endangered Species Act (ESA) consultation for replacement of a load-limited, structurally deficient bridge over Chickasawhatchee Creek 8 miles north of Leary, GA. Prepared a Biological Assessment for the federally listed mussel species and designated critical habitat including development of special provisions to be included in contract documents for species protection. Based on this Biological Assessment, USFWS issued a Biological Opinion concurring with the recommended biological determination to support project ***NEPA documentation***. Successfully obtained an Individual Section 404 Permit for stream and wetland impacts associated with bridge replacement and roadway approach improvements.
01/14 – 04/14	I-285 at Riverside Drive, GDOT, Fulton County, GA. *Lead Ecologist*. Led ***ecology surveys and reporting*** for the proposed conversion of signalized intersections at I-285 eastbound and westbound ramp termini and Riverside Drive to single lane roundabouts. Responsibilities included ***wetland delineation and protected species habitat assessment***. Completed technical review of findings report, including required exhibits, and agency coordination to support ***NEPA documentation*** for the federally funded project.

Firm employed by	ARCADIS		
Name	Jayun Thibodeaux, PWS	Years of relevant experience with this employer	2
Title	Ecologist	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		BS / 2017 / Environmental Management Systems, Louisiana State University	
Active registration number / state / expiration date		Professional Wetland Scientist # 3565 / NA / 9/19/2027	
Year registered	2022	Discipline	Professional Wetland Scientist
Contract role(s) / brief description of responsibilities.		Stage 0 / Planning / Environmental	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Thibodeaux is an Ecologist in the Arcadis Baton Rouge, Louisiana office with over five years of experience in environmental consulting. He has supported various sectors including transportation, industrial, commercial, energy, and government. He has experience conducting delineations of wetlands and other waters of the US (WOTUS) and threatened and endangered species surveys throughout Louisiana, Arkansas, Texas, Mississippi, and Alabama. Mr. Thibodeaux has served as the technical lead and project manager for projects requiring permit coordination with the US Army Corps of Engineers (USACE), Louisiana Department of Natural Resources (LDNR), Louisiana Department of Environmental Quality (LDEQ), as well as National Environmental Policy Act (NEPA) reviews for federal agencies.
04/21 – Ongoing	**Rural Bridge Replacement Initiative Phase II – Districts 02, 03, 07, 61, and 62, LADOTD, Multiple Parishes, LA.** *Ecologist*. Responsible for leading fieldwork for wetland studies and authoring ***Wetland Findings Reports*** for 16 state projects involving replacement of 29 state highway bridges. Prepared GIS figures to support Solicitation of Views and wetland studies. Additional responsibilities include preparing required permit applications on behalf of LADOTD for bridge replacement projects including USACE Section 404 Clean Water Act Nationwide Permits (NWPs) and Joint Applications for NWPs and LADNR Coastal Use Permits.
04/20 – Ongoing	**LA 82 Improvement, Sabine Pass LNG, LP, Cameron Parish, LA.** *Ecologist*. Assisted in preparation of environmental resource reports and data analysis for submittal to the Federal Energy Regulatory Commission (FERC) for approval under the Natural Gas Act (NGA). Prepared ecology report, a ***Section 404 permit application, Section 7 Endangered Species Act documentation***, and created figures utilizing GIS for the LA 82 improvements and modifications to the liquefied natural gas (LNG) facility entrance.
02/19 – 04/19	**Holton Harris Road Bridge, Monroe & Corie, Inc., LP, Over Lake Vernon in Vernon Parish, LA.** *Ecologist.* Conducted a delineation of wetlands and other WOTUS for the replacement of an 80-foot long by 18-foot-wide timber bridge on Holton Harris Road, crossing Vernon Lake located south of the City of Anacoco, Louisiana. Responsible for preparing a preliminary environmental finding report and submitting a ***Nationwide Permit 14 Pre-Construction Notification***.
05/20 – Ongoing	**Louisiana Coastal Use Permit Submittal – COP Stratco, Terrebonne Parish, LA.** *Technical Lead*. Responsible for developing and preparing guidance documents, resource reports, and identifying potential impacts for a ***Joint Permit Application*** with the LDNR, OCM, and the USACE New Orleans District. The project involves the removal of several structures including abandoned oil wells, flowlines, and a barge that served as a well pad located in the Louisiana Coastal Zone. Reviewed available data to identify potential impacts to oyster leases, pre-existing pipelines/crossings, and prop washing zones. Created GIS figures to illustrate project location(s), path, access, and oyster leases in accordance with LDNR and OCM's guidelines.

PERSONNEL RESUMES

ROADWAY DESIGNERS

Firm employed by	ARCADIS			Meets MPR No. 6
Name	Jose L. Rodriguez, PE		Years of relevant experience with this employer	2
Title	Senior Roadway Design Engineer		Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization			BS / 1992 / Civil Engineering, University of New Orleans	
Active registration number / state / 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 qualifications relevant to the proposed contract
	Mr. Rodriguez has more than 25 years of experience with roles of progressive responsibility as a civil engineer performing roadway design, bridge design, project management, hydraulic analysis, utility coordination, construction supervision, estimating, and project implementation for various clients in Louisiana, Texas, Georgia, and North Carolina. Jose has worked in close relationship with the Federal Highway Administration (FHWA), U.S. Army Corps of Engineers, Louisiana Department of Transportation (LADOTD), local parish governments, and regional planning commissions. He has extensive experience with Bentley Inroads, Autodesk Civil 3d, and Leap Bridge for Concrete Bridge Design. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010 and remains active in the organization. **Mr. Rodriguez meets MRP #6.**
06/04 – 01/11	**Causeway Boulevard Interchange Improvements Phases I and II, LADOTD, Metairie, LA.** *Project Designer.* This project 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 design of new precast concrete girders and the ***roadway plan preparation*** 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.
01/08 – 05/08	**I-12 to Bush Corridor Study Phase III (EIS), LADOTD, St. Tammany Parish, LA.** *Project Designer.* Responsible for evaluating environmental issues and ***developing design alternatives in accordance with the National Environmental Policy Act (NEPA)*** for transportation improvements.
02/10 – 06/11	**I-10 from Veterans to Clearview, LADOTD, Metairie, LA.** *Project Designer.* Responsible for ***roadway plan preparation*** for widening 1.2 miles of I-10 from three lanes to five lanes in each direction. The project also included bridge work to accommodate the interstate widening. Jose was also responsible for the alignment and 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.
05/12 – 12/15	**Earhart Boulevard-Causeway Interchange, LADOTD, New Orleans, LA.** *Project Designer.* Responsible for the ***geometric design and roadway plan preparation*** for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow of traffic for the New Orleans Metro Area. It consisted of the development of roadway and bridge ramps for the creation of an ***elevated signal-controlled interchange***. Responsible for development of all horizontal and vertical alignments for this project as well as roadway plan preparation, developing all roadway cross sections, drainage design, utility conflict resolution and cost estimating for the project.
07/09 – 07/15	**Peters Road Expansion, Phases I-III, LADOTD, Plaquemines, LA.** *Project Designer.* Responsible for the ***geometric design***, ***plan preparation*** and wetland delineation 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.
02/07 – 10/09	John James Audubon Bridge Approach (Design-Build), LADOTD, New Roads, LA. *Project Designer.* Responsible for the ***geometric horizontal and vertical alignment*** for five approach bridges to the John James Audubon Cable Stay Bridge. The longest cable-stayed bridge in the Western Hemisphere consisting of 1,583' main span. Jose was also in charge of the quality control for all bridge approaches and the design of all precast concrete girders for the project.
01/20 – 05/20	NC Highway 73 (NC 73) Widening, NCDOT, Mecklenburg County, North Carolina. *Project Engineer.* Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges due to the high traffic volumes, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To mitigate traffic disruption and enhance roadway safety, assisted in preparing the Transportation Operation Plans and sequence of construction for the project. All design work was performed following NCDOT and the latest MUTCD standards.
01/06 – 09/09	Orleans Submerged Roadway Program Management, LADOTD/NORPC, New Orleans, LA. *Project Designer and Quality Control Reviewer.* For this multi-million dollar program management team for the DOTD and the FHWA. Jose helped develop design guidelines and processes for the standardization of engineering work for the repair of roadways damaged by Hurricane Katrina in the City of New Orleans and other parishes. Responsible for conducting quality control reviews on roadway plans prepared by other engineering firms for compliance with DOTD and FHWA design standards.
03/19 – 05/20	Eastern Federal Lands Highway Division (EFLHD), Puerto Rico. *Assessment Roadway Lead.* 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 – 09/20	Texas High-Speed Rail, Texas Central Railway, Dallas to Houston, Texas. *Project Designer.* 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.
10/17 – 03/18	Traffic Turn Lanes on Highway LA 3127, Yuhuang Chemical Inc., St. James, LA. *Quality Control (QC).* Review for the design of two turn lanes 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.
12/15 – 01/16	Magnolia Ridge Levee Project, City of New Orleans, St. Charles Parish, LA. *Quality Control (QC).* QC review and plan preparation for the Magnolia Ridge Levee project for St. Charles Parish.

Firm employed by	ARCADIS		
Name	David Fulks, PE	Years of relevant experience with this employer	15
Title	Senior Roadway Design Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		MS / 2020 / Engineering Management, The George Washington University BS / 1997 / Civil Engineering, Portland State University	
Active registration number / state / expiration date		PE.030151 / LA / Exp. 09/2024	
Year registered	2002	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Fulks has more than 27 years of experience in the design of roadways, flood protection systems, and airports. His experience encompasses analysis and design of geometric and pavement design of highways, streets, sidewalks, restrictive intersections, roundabouts, and interchanges; site hydrology and hydraulics; and traffic impact analysis. His responsibilities have included preparing engineering designs, reports, plans, and specifications; preparing and managing project schedules and cost estimates; and providing construction administration.
04/13 – 07/14	**US 11 Environmental Assessment, Bridge Replacement, and Roadway Improvements, LADOTD, St. Tammany Parish, LA.** *Lead Engineer.* ***Geometry and roadway design***, ***line and grade study*** development, and ***cost estimates*** for the replacement of an historic railroad overpass bridge and upgrading an existing two-lane rural highway to a four-lane divided highway with access control. Early coordination with Norfolk Southern Railroad.
05/14 – 05/15	**Safety Studies IDIQ - Joe Sevario / Roddy Road Roundabouts, LADOTD, Ascension Parish, LA.** *Task Manager and Lead Engineer.* ***Geometric and roadway design*** and ***cost estimates*** for the replacement of ten existing stop-controlled intersections with single-lane roundabouts.
07/15 – 06/17	**US 190B at Jefferson Ave Roundabout Design, LADOTD, St. Tammany Parish, LA**. *Roadway Engineer.* ***Geometric and roadway design***, ***preliminary plans preparation***, and ***cost estimate*** for replacing an existing four-way signalized intersection with a single-lane elliptical roundabout.
12/13 – 06/15	**Safety Studies IDIQ - LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA**. *Lead Roadway Geometrics and Cost Engineer*. Designed ***geometric layout*** of safety improvements including ***access management***, ***restrictive intersections***, and added turn lanes. Developed ***construction cost estimates*** for proposed improvements to assess ***feasibility*** of proposed alternatives.
01/14 – 03/17	**Pete's Highway Interchange Alternative and Environmental Assessment, LADOTD, Livingston Parish, LA.** *Lead Roadway / Bridge Geometrics and Cost Engineer.* High-priority project completing an environmental assessment and traffic engineering services related to improving congestion and operations along Range Avenue in the vicinity of the I-12 interchange. Design alternatives included two split diamond interchange options with roundabout, partial clover leaves, and collector-distributor road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA 16) and a diverging diamond interchange alternative at Range Avenue. Developed ***roadway geometry, line and grade***, construction sequencing strategies, and ***construction cost estimate***.

11/14 – 10/15	LA 44 and Loosemore Road Roundabout, LADOTD, Ascension Parish, LA. *Deputy Project Manager and Lead Engineer.* ***Geometric and roadway design***, ***preliminary subsurface utility investigation***, and ***cost estimates*** for the replacement of an existing two-way stop-controlled intersection with either a single-lane roundabout or two single-lane roundabouts and right-in/right-out control at the existing intersection.
09/09 – 03/12	I-20 – Garrett Road Connector Interchange Improvements, LADOTD, Ouachita Parish, LA. *Lead Engineer.* ***Geometry and roadway design*** of the new KCS Railroad overpass and connector between Kansas Lane and Garrett Road, including interstate interchange modifications to include two-lane roundabouts at ramp intersections, and three two-lane roundabouts along the corridor outside of the interchange. ***Improvements to the pedestrian and bicycle facilities*** were included in accordance with the ***LADOTD Complete Streets Policy***. The compact project area required a detailed layout to confirm feasibility.
08/11 – 09/13	Chef Menteur Bridge and Approaches Replacement EA and Line and Grade Study, LADOTD, Orleans Parish, LA. *Lead Roadway/Bridge Geometrics and Cost Engineer.* Responsible for preparing the proposed ***geometric configurations of a bridge replacement at Chef Menteur Pass***. Investigated four alignments as well as both low-level moveable and high-level fixed span bridge configurations. Performed detailed ***geometric layouts*** of both the mainline highway, bridge, and adjacent collector roadways to ***mitigate impacts to environmentally sensitive resources*** and local residential, commercial, and historical interests.
09/12 – 09/13	US 165 Connector and Ouachita River Bridge EIS, LADOTD, Ouachita Parish, LA. *Roadway Design Engineer.* Responsible for preparing ***roadway and bridge general plan designs***, ***line and grade*** report development, and ***cost estimates*** for a new five-mile elevated highway through Chauvin Swamp north of Monroe, LA. An in-town corridor was also developed which entailed upgrading Louisville Avenue and Hudson Lane in Monroe, the Lea Joyner Bridge over the Ouachita River, and Stella Street in West Monroe to function as a one-way couplet. ***Early coordination with Delta Southern Railroad*** was included.
06/00 – 12/00	Hesper and Helios Avenue Street Rehabilitation, Jefferson Parish Engineering Department, Harvey, LA. *Roadway Engineer.* Completed inspections and rehabilitation recommendations for eight blocks of local streets. Rehabilitation required demolition and replacement of concrete road panels, milling and overlay of asphalt surfaces, and installation of drainage inlets and subsurface drainage, as well as replacement of damaged and under-performing subsurface drainage. Performed inspections, ***collaborated with Parish representatives and utility companies***, identified appropriate rehabilitation measures, and ***produced plans*** illustrating the rehabilitation recommendations.
02/09 – 04/10	US 90 – WBV 73 Western Tie-In Crossing Lake Cataouatche Area, United States Army Corps of Engineers (USACE) – New Orleans District, Jefferson Parish & St. Charles Parish, LA. *Deputy Project Manager and Lead Roadway / Drainage Engineer.* Development of ***preliminary and final design*** P&S for a 2,540-foot PPC girder / column bent bridge, highway approaches, and frontage roadways.
02/01 – 08/01	US 190 (Gause Boulevard) from LA 433 to US 11, LADOTD, Slidell, LA. *Roadway / Drainage Designer.* Alignment modification and capacity increase for a 3.5-mile stretch of this state highway. The project scope included two bridges, a transition from a rural minor arterial to an urban principal arterial, dozens of minor intersections with side streets, a railway crossing, and numerous drainage culverts. The ***roadway geometric and drainage designs*** were completed, and design plans were produced. This project required applying many geometric elements, such as super-elevation and multiple closely spaced horizontal curves that required a delicate balance of occasional conflicting requirements.

Firm employed by	ARCADIS		
Name	Lloyd "Buddy" Porta, Jr., PE	Years of relevant experience with this employer	12
Title	Principal Engineer	Years of relevant experience with other employer(s)	37
Degree(s) / Years / Specialization		BS / 1973 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date		PE.016425 / LA / Exp. 09/2023	
Year registered	1977	Discipline	Civil Engineer, Environmental Engineer
Contract role(s) / brief description of responsibilities.		Technical Advisor & QAQC (Roadway Design)	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Porta brings more than 47 years of experience in the transportation field. During his 37-year career at LADOTD, he practiced highway design for 11 years with 8 of those years in responsible charge of a design squad. He spent the next 21 years of his career in project/program management. He managed the Off-System Bridge Replacement Program and the Urban System Program. Both programs replaced or constructed new bridges on parish and state routes. In 2001 he was tasked with being the LADOTD Transportation Infrastructure Model for Economic Development (TIMED) Program Manager. This $5 billion program was developed to multi-lane over 500 miles of state highways as well as construct three new bridges; two of these bridges cross the Mississippi River. He spent the last 5 years of his career at LADOTD as the State Road Design Engineer Administrator.
06/84 – 10/10	**LADOTD, Off-System Bridge Program, Statewide, LA.** *Program Manager. **DOTD's First Program Manager for OSBRP.*** Replaced/rehabilitated existing bridges located on nonfederal routes in the cities and/or parishes in Louisiana. Provided the project and program management. Responsible for the selection of the qualifying sites, the distribution of the federal funds to the participating parishes, the selection of the design consultant, the coordination with the parishes and the consultants, the development of the scope of services and fee for each project, the technical review of the topographic surveys and construction plans and providing comments to the consultants and parishes, and the approval of all invoices.
10/16 – 02/18	**LADOTD Off-System Highway Bridge Replacement Program, North Bayou Black Drive Bridge, Terrebonne Parish, LA.** *QA / QC Reviewer.* Reviewed plans for the replacement of an off-system highway bridge. Detailed design effort included field surveying, right of way adjustments, crash barrier selection, hydraulic analysis, preliminary and final plan preparation, and quantity estimation.
04/12 – 01/14	**LADOTD, US 11 Railroad Bridge Replacement and Corridor Improvements Environmental Assessment, Slidell, LA.** *QA / QC Reviewer.* Responsible for ***LADOTD guideline compliance for the replacement and widening of the US 11 roadway overpass*** of the Norfolk Southern Railroad. The project included evaluating partial and full-access intersection options and bridge alignment and type alternatives for the heavily skewed and long steel span bridge in this urban area of Slidell, Louisiana. Key issues included the bridge's imminent historic status, commercial parking impacts and adapting to the Norfolk Southern right-of-way and travel pattern changes following the construction.
09/12 – 09/13	**LADOTD, US 165 Connector and Ouachita River Bridge - Environmental Impact Statement, Line and Grade and Toll Study, Monroe, LA.** *QA/QC Reviewer.* Responsible for ***LADOTD design guideline compliance***. Three alternatives were developed and evaluated along with various tolling scenarios. All alternatives traverse substantial tracts of wooded wetlands associated with Chauvin Swamp near the Russell Sage Wildlife Management Area.

07/15 – 05/19	LADOTD, US 190B at Jefferson Ave. Roundabouts, Covington, LA. *QA/QC Reviewer.* Supported the ***construction of a new roundabout*** in Covington as a quality assurance/quality control reviewer. Plans reviewed included the construction of sidewalk for use by pedestrians.
01/14 – Ongoing	LADOTD, Pete's Highway Environmental Assessment and Alternatives, Livingston Parish, LA. *QA/QC Reviewer.* Responsible for LADOTD guideline compliance for the high-priority project completing an ***Environmental Assessment and traffic engineering*** services related to improving congestion and operations along Range Avenue in the vicinity of I-12. Alternatives include two split diamond interchange options with roundabout, partial clover leafs, and c-d road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA 16) and a diverging diamond interchange alternative at Range Avenue.
04/12 – 01/14	New Orleans Regional Planning Commission, LA 434 Corridor Stage 1 Environmental Assessment, Lacombe, LA. *QA/QC Reviewer.* Responsible for ***LADOTD guideline compliance***. Environmental Assessment for the widening and improvements of LA 434 between LA 36 and the anticipated new junction with LA 3241 near LaCombe, LA in St. Tammany Parish. The project involved stream permit application coordination.
10/90 – 10/10	LADOTD, Urban System Program, LADOTD, Statewide, LA. *Program Manager.* Responsible for consultant selection, coordinating with metropolitan planning organizations (MPOs) and city/parish officials, coordinating with LADOTD Planning Section, developing the scope of services and fee for the projects, ***reviewing construction plans*** and providing comments to the consultants and city/parish, and approving all invoices. Responsible for developing the Urban Systems Program Seminar, which provided information on the processes and procedures used in the program. Served as ***project manager for signal projects*** in St. Bernard, Orleans, St. Tammany, and Ouachita Parishes
09/01 – 05/06	LADOTD, Transportation Infrastructure Model for Economic Development (TIMED) Program, Statewide, LA. *LADOTD TIMED Program Manager*. Worked and coordinated on a daily basis with the TIMED Program Manager (LTM) to develop training, procedures, policies, and guidelines for this Louisiana Constitution mandated program. Monitored program progress and approved consultant invoices as a member of the TIMED Program Executive Committee, reporting directly to the Secretary of the LADOTD. There were 16 projects recognized throughout the state wit bonds sold to finance and accelerate the program.
05/06 – 07/10	LADOTD, Road Design Engineer Administrator, Statewide, LA. Responsible for transitioning section focus from project management to ***roadway design*** as desired by the Chief Engineer. To support this mandate, organized and coordinated training with FHWA and the Louisiana Transportation Training Education Center to assist with design staff development. Developed a legal seminar in collaboration with the state Attorney General's Office designed for Road Design and other LADOTD sections representing LADOTD in court depositions presented in several LADOTD offices. Responsible for the ***development of design criteria*** for Offset Left Turn Lanes and ***design guidelines*** for the replacement of bridges on state routes.

Firm employed by	ARCADIS		
Name	Garret Keller, PE	Years of relevant experience with this employer	12
Title	Roadway Design Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2011 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date		PE.040977 / LA / Exp. 03/2023	
Year registered	2012	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Keller is a Civil Engineer with 12 years of experience working on a wide range of roadway and structural design projects including roadway improvement design, drainage design, feasibility studies, and flood protection system projects. His responsibilities include structural detailing, structural design, civil design, geometrics, and cost estimating. He also oversees implementation of CAD systems and standards for Louisiana including MicroStation, InRoads, and CAD conform for LADOTD work.
11/12 – 04/13	**LA 594 (Millhaven Rd.) Alternatives, I-20 Economic Development Corporation, Ouachita Parish, LA.** *Roadway Engineer.* Roadway intersection and roundabout improvement alternatives for a ***LADOTD Stage 0 Study***. Two roundabouts were evaluated in compliance with LADOTD EDSM V.1.1.5 (Analysis) and EDSM V.1.1.6 (Design). Performed ***geometric and roadway design*** of intersection and roadway alternatives and developed ***construction cost estimates***.
01/14 – 03/17	**Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Livingston Parish, LA.** *Roadway Engineer.* High-priority project completing an environmental assessment and traffic engineering services related to improving congestion and operations along Range Avenue in the vicinity of the I-12 interchange. Assisted in the development of ***roadway geometry, line and grade***, construction sequencing strategies, and ***construction cost estimate***.
07/15 – 06/17	**US 190B at Jefferson Avenue Roundabout Design, LADOTD, St. Tammany Parish, LA**. *Roadway Engineer*. Responsible for ***geometric and roadway design*** for replacing an existing four-lane signalized intersection with a single-lane roundabout. The project also included a ***Context Sensitive Solutions*** study to optimize benefit to the adjacent real estate and community needs.
09/12 – 04/14	**US 165 Connector and Ouachita River Bridge EIS, LADOTD, Ouachita Parish LA.** *Roadway Engineer.* Responsible for ***roadway design support*** for this project that provides needed transportation system linkage in the north Monroe region.
03/17 – 06/21	**Safety Studies IDIQ - Baton Rouge Pedestrian and Bicycle Safety Action Plan and Feasibility Study, LADOTD, East Baton Rouge Parish, LA.** *Roadway Engineer*. Responsible for assisting with ***Road Safety Audits (RSAs)*** at 10 high priority intersections identified through the Baton Rouge Pedestrian and Bicycle Safety Action Plan. Evaluated safety deficiencies and ***identified feasible alternatives*** from the roadway design perspective.
08/11 – 09/13	**Chef Menteur Bridge and Approaches EA, LADOTD, Orleans Parish, LA.** *Roadway Engineer.* Responsible for ***geometric and roadway design*** for a high-priority bridge replacement. Key issues included minimizing impacts to Bayou Sauvage National Wildlife Refuge, Fort McComb, the existing bridge that is eligible for the NRHP, and compliance with ***Complete Streets Policy***.

Firm employed by	BONTON ASSOCIATES		Meets MPR No. 6
Name	Marcus Bonton, PE	Years of relevant experience with this employer	2
Title	Principal Transportation Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		BS / 2008 / Civil Engineering	
Active registration number / state / expiration date		PE. 40389 / LA / Exp. 09/2024	
Year registered	2016	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities.		Roadway Design	

Experience dates	Experience and qualifications relevant to the proposed contract
	As a Transportation Principal, Marcus brings over 14 years of experience in developing, managing, and delivering transportation design and planning projects for federal, state, and municipal clients, including LADOTD. He has managed and supervised transportation projects and teams for design studies, LADOTD Stage 0, roadway design, roundabout design, corridor improvements, pavement rehabilitation design, ADA and pedestrian facility design, and design calculations. **Mr. Bonton meets MPR #6.**
08/21 - Ongoing	**LA 73: US 61 (Airline) to Essen Lane Roadway and Sidewalk Improvements, LADOTD, East Baton Rouge Parish, LA.** *Roadway Design Lead*. Provided technical oversight and QC-QA of ***design plans*** for roadway rehabilitation, sidewalk repair, curb gutter repair/replacement, and ***installation of Americans with Disabilities Act (ADA) facilities*** in co***mpliance with LADOTD design guidelines***. These design improvements were in conjunction with the roadway replacement improvements designed between Essen Lane and Drusilla Lane.
05/15 – 05/17	**LA 59 at Lonesome Road Roundabout, LADOTD, St. Tammany Parish, LA.** *Roadway Design Lead.* Responsible for the design and preparation of ***preliminary and final plans for a single lane roundabout*** which included ***roadway geometry*** (horizontal/vertical alignments), typical sections, subsurface drainage, ***geometric details***, graphical grades, access management, sequence of construction, cross sections, earthwork modeling, quantities, and ***cost estimations***
05/21 – 09/22	**S. Harrell's Ferry Rd. Multi-Use Path, City of Baton Rouge, East Baton Rouge, LA**. *Roadway Design Lead*. Provided technical oversight and QC-QA for the ***preliminary and final design plans for a multi-use path***, ADA compliant facilities, and striping modifications to ***increase pedestrian and bicycle mobility*** along S. Harrell's Ferry Rd. and connectivity to existing sidewalks.
11/20 – Ongoing	**Ardenwood-Lobdell Connector Design Study and Final Design, City of Baton Rouge, LA.** *Roadway Design Lead*. Managed the preparation and completion of the project design study and technical lead for the Final Design Phase of the roadway connector between Ardenwood and Lobdell in Baton Rouge, LA. This includes the development of the ***roadway horizontal and vertical geometry***, typical sections, intersection improvements, ***access management***, bicycle lanes and sidewalks, ***roadway widening***, ***pedestrian facility design and safety measures***, drainage, and green infrastructure.
11/19 – 12/20	**Marlyville-Fontainebleau Group E, City of New Orleans, Orleans Parish, LA.** *Project Manager*. Managed the ***preparation and submittal of road design plans*** and specifications for full-depth roadway replacement, sidewalk/curb ramps repair, subsurface drainage, water, sanitary sewer design, and driveways adjustments under the Joint Infrastructure Program (JIRR) with the City of New Orleans.

Firm employed by	BONTON ASSOCIATES		
Name	Kiran Gurung, EI	Years of relevant experience with this employer	5
Title	Roadway Design Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS / 2017 / Environmental Engineering BT / 2013 / Civil Engineering	
Active registration number / state / expiration date		Engineer-In-Training #61897 / Tx / Exp. 03/2026	
Year registered	2018	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities.		Roadway Design	

Experience dates	Experience and qualifications relevant to the proposed contract
	As a Roadway Design Engineer, Kiran brings experience in the planning and designing roadway improvements, pedestrian facilities (sidewalks/ADA compliance), and hydrologic and hydraulic analysis of stormwater management and drainage improvements. Her knowledge of applying LADOTD, AASHTO, ADA, MOVEBR, PROWAG, and MUTCD guidelines to design projects helps ensure that the design follows LADOTD Design Standards.
11/20 – Ongoing	**Ardenwood-Lobdell Connector Design Study and Final Design, City of Baton Rouge, LA.** *Roadway Designer*. Responsible for preparation and completion of the project design study and technical lead for the Final Design Phase of the roadway connector between Ardenwood and Lobdell in Baton Rouge, LA. This includes the development of the ***roadway horizontal and vertical geometry***, typical sections, intersection improvements, ***access management***, bicycle lanes and sidewalks, ***roadway widening***, ***pedestrian facility design and safety measures***, drainage, and green infrastructure.
01/22 - Ongoing	**Evangeline St. (West) Area ADA Transition, City of Baton Rouge, East Baton Rouge Parish, LA.** *Roadway Designer.* Supported the development of project deliverables and milestones for proposed ***design plans*** (Preliminary and Final) for proposed ADA barrier improvements (sidewalk repair/replacement, curb and gutter, handicap ramps, crosswalks, etc.), site plan details, special provisions, repair schedule, and ***cost estimates***.
07/21 – 03/22	**Fairfields Ave. Area ADA Transition, City of Baton Rouge, East Baton Rouge Parish, LA.** *Roadway Designer.* Supported the development of ***design plans*** (Preliminary and Final) for proposed ADA barrier improvements (sidewalk repair/replacement, curb and gutter, handicap ramps, crosswalks, etc.), site plan details, special provisions, repair schedule, and ***cost estimates***.
03/21 – 11/21	**Fuqua St./Gracie St. Area ADA Transition, City of Baton Rouge, East Baton Rouge Parish, LA.** *Roadway Designer.* Responsible for supporting the development of ***design plans*** (Preliminary and Final) for proposed ADA barrier improvements (sidewalk repair/replacement, curb and gutter, handicap ramps, crosswalks, etc.), site plan details, special provisions, repair schedule, and ***cost estimates***.

PERSONNEL RESUMES

AERIAL PHOTOGRAPHY, GIS & CADD SUPPORT STAFF

Firm employed by	ARCADIS		
Name	Joshua Chatelain	Years of relevant experience with this employer	15
Title	Senior GIS Specialist	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		BS / 2002 / Geography, University of New Orleans	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Aerial Photography / GIS / CADD	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Chatelain has more than 20 years of experience using Geographic Information Systems (GIS) for planning and analysis in the transportation engineering field. He is experienced in performing infrastructure mapping and assessment, transportation planning and analysis, data acquisition, aerial photography, field survey oversight, and providing GIS support for ITS projects. Experience with ESRI ArcGIS application stack and data driven applications include: ArcMap, ArcCatalog, ArcInfo, ESRI Roads and Highways, Event Editor, ArcGIS Data Reviewer, ArcGIS Workflow Manager, ArcGIS Pro, ArcGIS 3D Analyst, ArcGIS Spatial Analyst, ArcGIS Geostatistical Analyst, ArcGIS Network Analyst, Production Mapping, ArcPad, ArcGIS Collector, ArcGIS Model Builder, ArcGIS Online, ArcGIS Enterprise, ArcGIS Web App Builder, AutoCAD, Enterprise Databases, ArcSDE, Python, ArcGIS Server, and SQL Server Management Studio.
06/18 – 10/19	I-10 Queue Warning Systems Engineering Analysis, LADOTD, Baton Rouge, LA. *Probe Data and GIS Analyst*. Developed the first of its kind ITS Systems Engineering Analysis involving the evaluation of a Queue Warning system on I-10 eastbound from LA 77 to I-110. The analysis required processing and ***evaluation of traffic probe data as well as LADOTD's crash data using GIS and electronic dashboarding tools*** to identify existing traffic conditions.
01/14 – 01/18	IDIQ Contract for an Enterprise LRS System Development, LADOTD, Statewide, LA. *GIS Analyst*. Responsible for the implementation of an ***Enterprise Linear Referencing System (LRS) using ESRIs Roads & Highways***. Participated in discovery meetings, development of existing conditions report, development of initial R&H database model and implementation of a Statewide Enterprise LRS. Local point of contact and associate project manager for the retainer contract.
02/13 – 07/14	Enterprise LRS Business Process Review and Database Design Arizona Department of Transportation, Phoenix, AZ. *GIS Analyst*. Worked as part of the project team to design and implement an ***Enterprise Linear Referencing System (LRS) using the ESRI Roads and Highways platform (RNH)***. Evaluated the needs of the LRS system within ADOT. Tested tool sets, geoprocessing functions, models, datasets, schemes, and other elements within RNH to identify practical methods of migration to RNH from ADOT's current system. Modified, modeled, processed, and prepared datasets for migration into RNH.
01/10 – 01/11	City-Parish Enterprise LRS System Development, City of Baton Rouge/Parish of East Baton Rouge, Baton Rouge, LA. *GIS Analyst.* Responsible for the implementation of an ***Enterprise Linear Referencing System using Geomedia and Oracle Spatial***. Conducted business requirements and needs assessment, design, build, and implementation of a parish wide LRS.

Firm employed by	ARCADIS		
Name	Sothon Men	Years of relevant experience with this employer	19
Title	Senior CADD Technician	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		AA / 2005 / CADD Design / Southeast College of Technology	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		CADD Technician	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Sothon Men is staff designer with more than 25 years of experience with CADD. His expertise includes computer aided drafting and design (CADD) and Microstation in all aspects of civil, structural, and electrical projects. He has prepared CADD drawings and plans for more than 200 civil/environmental/structural design projects.
10/15 – 01/18	North Bayou Black Drive, Hanson Canal Bridge, LADOTD, Off-System Highway Bridge Replacement Program, Terrebonne Parish, LA. *CADD Designer*. Provided all necessary engineering and related services required for ***developing plans*** for the replacement of an off-system highway bridge. Duties included the calculation of earthwork quantities using Land Desktop software, plan and profile, cross-sections, and the merging of drawings into MicroStation software.
09/08 – 07/10	El Camino East/West Corridor Environmental Assessment, LADOTD, Natchitoches Parish, LA. *CADD Technician*. Provided all ***CADD-related services*** for project drawing preparation. Arcadis prepared an ***Environmental Assessment*** for the proposed widening of an 8.28-mile section of LA 6 in Natchitoches Parish between I-49 and Robeline.
01/11 – 01/12	Seabrook Sector Gate Complex, USACE New Orleans District Hurricane Protection Office (HPO), New Orleans, LA. *Lead Technician.* Involved in ***developing construction plans*** for a 95-foot wide sector gate structure and two vertical lift gates (100-year level of protection), T-wall tie-ins, and cofferdam system. Design software packages were Bentley Microstation and Bentley GeoPack.
12/10 – 4/12	US 84 Improvements from Sabine River to LA 5, LADOTD and TxDOT, Logansport, LA. *Design Technician*. Preparation of all structural ***CADD drawings including general plan layout***, plan and profile, girder layout, and all substructure details.
01/16 – 01/18	Triborough Bridge and Tunnel Authority of New York Metropolitan Transportation Authority, New York. *Design Technician*. Provided ***design support*** on a Design-Build project for the New York Transit Authority. Judlau Construction contracted Arcadis to design primary deployable flood protection barriers and secondary closure gates for the tunnels. Bentley Microstation was used.
02/11 – 05/12	SH 31 Bridge Design, TXDOT, Waco, Tx. *CADD Technician*. Responsible for structural design, ***plans preparation and quantity estimates*** as per Load and Resistance Factor Design (LRFD)specifications for six TxDOT bridges on Highway SH 31 (over Navasota River, overpasses over FM 1330 & FM 339). Bridge lengths varied from 130 – 240 ft and featured pre-stressed U beams & Type C girders on concrete bents founded on drilled shafts.
05/08 – 06/10	SH 195 Bridge Design, TXDOT, Williamson County, Texas. *CADD Technician*. Responsible for QA/QC of design calculations (LRFD), ***plans and cost estimates for a roadway overpass*** featuring twin bridge structures with skewed spans set in a horizontal curve.

PERSONNEL RESUMES

SIGNAL TECHNICIANS & SUPPORT STAFF

Firm employed by	ARCADIS		
Name	Jeffery Jones	Years of relevant experience with this employer	10
Title	Senior Signal and ITS Technician	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		2005 / Electrical Engineering Coursework / University of New Orleans 2005 / Electrical Engineering Coursework / Delgado Community College	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	ATTSA TCT, TCS, TCDS, Flagger; IMSA I, IMSA II; Louisiana Contractor License - Electrical
Contract role(s) / brief description of responsibilities.		Traffic Signal Inventory	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Jones has 20 years of experience designing, integrating and maintaining information systems in the transportation industry. He has experience with complex intelligent transportation system (ITS) networks that include wireless MESH, fiber optics, and copper. He has a thorough knowledge of traffic signal equipment, WIFI, Cell Networks and Dedicated Short Range Communication (DSRC) systems and standards. He has certified technical trainings on ITS assets and systems such as COHU, Axis, Daktronics, ISS RTMS Traffic Detector, Trafficware/Naztec TS1 and TS2 Traffic Controller, Econolite Autoscope and others. He is IMSA II certified and is a licensed electrical contractor.
02/19 – 08/21	**US 190 Intelligent Transportation Systems (ITS) Deployment, LADOTD, West Baton Rouge, Pointe Coupee, and Landry Parishes, LA.** *Project Manager*. Provided project management and QA/QC services to LADOTD on ITS expansion project that included the installation of approximately 48 miles of fiber optic communications cable, the *interconnection of four traffic signals* onto the LADOTD communications network, and the installation of two communications HUB buildings. As Project Manager, responsibilities included overseeing all aspects of construction and inspection including oil engineering support to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
09/13 – 08/16	**ITS Maintenance IDIQ Routine Maintenance Task Order for Ramp Meter Maintenance, LADOTD, Statewide, LA.** *Field Manager / Project Manager* responsible for providing *routine maintenance and inspection for the 16 ramp meter signals owned by LADOTD*. At the start of the program, none of the ramp meters were operating, so the first priority was to bring them back online. Once operational, our team logged routine maintenance site visits to keep all ramp meters in proper condition. These visits included activities such as *inspecting site equipment*, verifying operation of video and Bluetooth detection devices and making necessary adjustments or configuration changes to restore proper operation, as well as changing air filters, vacuuming dust out of cabinets, and cleaning cooling fans. All of these activities were logged into the MMS.
10/19 – 08/21	**Alexandria ITS Deployment Phase 3, LADOTD, Rapides Parish, LA.** *Project Manager*. Provide construction management services to LADOTD on ITS expansion project in the Alexandria metropolitan area. The ITS expansion project includes the installation of fiber optic communications cable, Dynamic Message Signs (DMS) and Closed-Circuit Television (CCTV) cameras on US 71, US 165, and LA 28. As Project Manager, responsibilities included overseeing all aspects of construction and inspection including providing engineering support to the contractor during construction, *directing field inspectors*, and maintaining project documentation required by LADOTD.
08/16 – Ongoing	**ITS Maintenance IDIQ Contract Program Management (PM) and Maintenance Management System (MMS), LADOTD, Statewide.** *Field Manager / Project Manager* responsible for program and project management, maintenance and related services for the LADOTD ITS maintenance program. Responsible for managing the routine maintenance of CCTV camera, Dynamic Message Sign

	(DMS), vehicle detector (VD) and ramp meter sites, and responsive/emergency maintenance of CCTV camera and DMS sites located throughout the state of Louisiana. Developed Traffic Control Plans (TCP) and worked with the LADOTD project manager to determine safety class and critical level assignments for all ITS sites. Performed training for and installation of the maintenance management system (MMS). Worked on the development of performance measures reports, ITS Maintenance Plan, Program Management Plan (PMP) and Health and Safety Plan (HASP) for the project. Developed procedures and checklists for the performance of maintenance activities at ITS sites. Performed *site inspections*, validation and quality control checks for maintenance activities performed under the contract.
08/16 – Ongoing	ITS Maintenance IDIQ Routine Maintenance Task Orders – CCTV Camera, DMS, VD, and Ramp Meter, LADOTD; Statewide, LA. *Field Manager / Project Manager* responsible for providing routine maintenance of statewide ITS sites including, CCTV cameras, DMS, VD, and ramp meters. Routine maintenance activities typically include *inspecting site equipment*, changing air filters, vacuuming dust out of a cabinet, cleaning CCTV domes, cleaning DMS face plates, and cleaning cooling fans, as well as record keeping. Responsibilities also include development of detailed checklist by device type; integration of checklist with MMS software; standardized reporting; development of routine maintenance scheduler; and coordination with statewide traffic management center (TMC), regional TMCs, and DOTD districts before, during, and after all routine activities.
08/16 – Ongoing	ITS Maintenance IDIQ Responsive Maintenance Task Orders – CCTV Camera and DMS, LADOTD; Statewide, LA. *Field Manager / Project Manager* responsible for providing responsive maintenance of statewide ITS sites including CCTV camera and DMS. Responsive or emergency maintenance occurs in response to malfunctioning or faulty components that prevent the normal operations of ITS devices. Also responsible for tracking a responsive maintenance ticket to see that the work is done within the defined response time based on a site location.
06/13 – 08/16	ITS Maintenance IDIQ Contract Program Management and Maintenance Management System, LADOTD, Statewide, LA. *Project Manager* responsible for developing, implementing, and managing ITS maintenance plan, policies, standards, procedures, and guidelines. Responsibilities also included deployment planning, installation, configuration validation, data migration support and ongoing update to database, training, and annual MMS software support. Arcadis was awarded the *first-ever ITS maintenance contract* to establish a program to systematically provide routine and responsive maintenance for the LADOTD's statewide ITS infrastructure. Such infrastructure includes CCTV cameras, DMS, radar vehicle detectors, and ramp meters, totaling more than 500 sites statewide. The project scope includes program management; maintenance management system software; comprehensive maintenance plan for routine and responsive maintenance; health and safety and traffic control plan development; and tracking and performance measures reporting.
08/13 – 08/16	ITS Maintenance IDIQ Responsive Maintenance Task Order for Dynamic Message Sign (DMS), LADOTD, Statewide, LA. *Field Manager / Project Manager* responsible for responsive and emergency maintenance of all 79 DMS sites in Louisiana. Responsive maintenance is the repair or replacement of any reported failed or malfunctioned equipment. Emergency maintenance is responsive maintenance requiring immediate repair, such as sites requiring traveler information, or incidents and events. Sites were classified by risk to safety, with Class A, B, or C as well as level of criticality, with High, Medium or Low. Each site requires different safety precautions based on classifications. Our project team assessed each site and applied the appropriate LADOTD traffic control details. When necessary, we developed a customized traffic control plan and worked with LADOTD staff for approval.

Firm employed by	ARCADIS				
Name	Anthony Jackson, IMSA II		Years of relevant experience with this employer	4	
Title	Senior Signal and ITS Technician		Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization			Pre-Civil Engineering Coursework / 2016 – Ongoing / Baton Rouge Community College		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	ATTSA TCT, TCS, Flagger; IMSA Traffic Signal Level II and III. Manufacturer certifications in Econolite (Autoscope) and Trafficware		
Contract role(s) / brief description of responsibilities			Traffic Signal Inventory		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Jackson has 23 years of experience in field inspection and investigation, testing/QA, and construction inspection and testing of structural components on LADOTD ITS CE&I projects. He has 19 years of experience working on ITS and traffic signal projects including construction, inspection, system integration and maintaining traffic signal and ITS systems in the transportation industry. He has experience with complex intelligent transportation system (ITS), and Traffic Signalizations. He has a thorough knowledge of LADOTD standards and specification. He has certified technical trainings on ITS assets and systems such as COHU, Axis, Daktronics, ISS RTMS Traffic Detector, Trafficware TS2, and Econolite Autoscope and others. He also has certifications as an IMSA Level III Traffic Signal Technician, and Traffic Signal Inspector for Advance Technologies.
06/15 – 12/15	**Controller Upgrade Traffic Signalization and Related Work, Bienville, Bossier, Caddo, Claiborne, Desoto, Red River, Webster, Jefferson, Orleans, St. Bernard, St. Charles Parishes, LA.** *Project Manager/Sr. Technician*. Participated in planning and bidding to obtain contracts for projects. Acting Traffic Control Supervisor on the project and coordinated work schedule with LADOTD. Served as Lead Technician on project and approved partial estimates and change orders. On site, was responsible for ***programming ATC controllers, and installing GPS in the controller cabinets***. Maintained proper traffic control by coordinating the shutdowns of major and minor signalized intersection with state and local police departments.
02/19 – 08/21	**US 190 ITS Deployment, LADOTD, West Baton Rouge, Pointe Coupee, and Landry Parishes, LA.** *Senior Technician/Inspector - Lead.* Provide field inspection and investigation services to LADOTD on ITS expansion project that includes the installation of approximately 48 miles of fiber optic communications cable, the ***interconnection of four traffic signals onto the LADOTD communications network***, and the installation of two communications HUB buildings. As Project Technician, responsibilities include overseeing all aspects of construction and inspection including providing engineering support to the contractor during construction, directing field inspectors, and maintaining project documentation required by LADOTD.
05/13 – Ongoing	**ITS Maintenance IDIQ Contract – Program Management and Maintenance Management System, LADOTD, Statewide, LA.** *Sr. Technician*. Premier duties were to integrate, troubleshoot, and perform preventative maintenance, on CCTV Cameras, DMS, VD, and Ramp Meters. Performs QA/QC checks after any work is performed on the routine and responsive maintenance. The site visits for quality control on maintenance activities to secure thoroughness of work against maintenance procedure. It also allows the inspection of the TCP installation, and usability for current roadway geometrical conditions.

PERSONNEL RESUMES

TRAFFIC DATA COLLECTION TECHNICIANS

Firm employed by	STS Southern Traffic Services / REKOR	Meets MPR No. 5

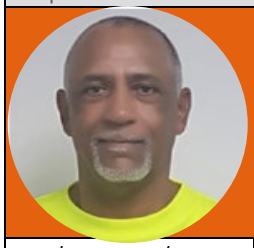
Name	Justin Smith	Years of relevant experience with this employer	15
Title	Traffic Data Collection Program Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2007 / History	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Traffic Data Collection	

Experience dates	Experience and qualifications relevant to the proposed contract
Mr. Smith joined STS in November of 2006 as a Data Analyst. He was quickly promoted to a Project Manager and is now serving as Program Manager. Mr. Smith has extensive experience providing traffic data collection for LADOTD projects, and is currently managing contracts with Ohio DOT, Oklahoma DOT and Pennsylvania DOT. He has performed and processed numerous traffic data collection types including vehicle classification and volume tube counts, peak period turning movement counts, driveway counts, speed studies, delay, travel time, origin-destination, parking and occupancy studies. **Mr. Smith has 15 years of experience in traffic count and speed data collection, and meets MPR #5.**	
08/17 – 10/19	**IDIQ Contract for Traffic Engineering – I-10 (LA 415 to Essen Lane) Data Collection, LADOTD, East and West Baton Rouge Parishes, LA.** *Program Manager.* Responsible for ***traffic data collection*** and QAQC of 7-day, 24-hour classification tube counts, 48-hour classification tube counts, and peak period intersection turning movement counts.
10/16 – 04/17	**IDIQ Contract for Traffic Engineering – LA 157 Corridor Study, LADOTD, Bossier Parish, LA.** *Program Manager.* Responsible for ***traffic data collection*** and QAQC of 7-day, 24-hour classification tube counts, peak period intersection turning movement counts 15-minute driveway counts, and ***speed studies***.
04/18 – 05/18	**IDIQ Contract for Traffic Engineering – I-20 Mesoscopic Model and TMP, LADOTD, Bossier Parish, LA.** *Program Manager.* Responsible for ***traffic data collection*** and QAQC of 48-hour classification tube counts, 12-hour tube classification counts, and 8-hour intersection turning movement counts.
01/16 – 01/21	**Traffic Data Collection, Oklahoma Department of Transportation, Statewide.** *Program Manager.* Responsible for ***traffic data collection*** including 48-hour classification and ***speed data*** at approximately 1100 locations per year. Mr. Smith is responsible for all technician training and scheduling, processing and submitting data to the Department in the correct format.
01/13 – 01/16	**Traffic Data Collection, Ohio Department of Transportation, Statewide.** *Program Manager.* Responsible for ***traffic cound and speed data collection*** including 1000 classification counts, 896 volume counts, 36 turning movement counts and 9 portable Wavetronix classification counts. Mr. Smith is responsible for all technician training and scheduling, processing and submitting data to the Department in the correct format.
11/12 – 09/13	**Alabama Traffic Data Collection and Analysis, University of Alabama, AL.** *Project Manager.* Collected 825 classification counts and 730 volume counts. Mr. Smith participated in the ***data collection activities***.

Firm employed by				Meets MPR No. 5
Name	Joel Ponder		Years of relevant experience with this employer	20
Title	Senior Traffic Data Collection Technician		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			AAS Electronic Degree / 2002 / Hinds County Community College	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities.			Traffic Data Collection	

Experience dates	Experience and qualifications relevant to the proposed contract
Mr. Ponder has 20 years of experience in the field of traffic data collection and studies. He has extensive experience with all types of traffic data collection including vehicle classification and volume tube counts, peak period turning movement counts, driveway counts, speed studies, delay, travel time, origin-destination, parking, and occupancy studies.	
08/17 – 10/19	**IDIQ Contract for Traffic Engineering – I-10 (LA 415 to Essen Lane) Data Collection, LADOTD, East and West Baton Rouge Parishes, LA.** *Senior Technician.* Responsible for ***traffic data collection*** and QAQC of 7-day, 24-hour classification tube counts, 48-hour classification tube counts, and peak period intersection turning movement counts.
10/16 – 04/17	**IDIQ Contract for Traffic Engineering – LA 157 Corridor Study, LADOTD, Bossier Parish, LA.** *Senior Technician.* Responsible for ***traffic data collection*** and QAQC of 7-day, 24-hour classification tube counts, peak period intersection turning movement counts 15-minute driveway counts, and ***speed studies***.
04/18 – 05/18	**IDIQ Contract for Traffic Engineering – I-20 Mesoscopic Model and TMP, LADOTD, Bossier Parish, LA.** *Senior Technician.* Responsible for ***traffic data collection*** and QAQC of 48-hour classification tube counts, 12-hour tube classification counts, and 8-hour intersection turning movement counts.
01/16 – 01/21	**Traffic Data Collection, Oklahoma Department of Transportation, Statewide.** *Senior Technician.* Responsible for ***traffic data collection*** including 48-hour classification and ***speed data*** at approximately 1100 locations per year.
01/13 – 01/16	**Traffic Data Collection, Ohio Department of Transportation, Statewide.** *Senior Technician.* Responsible for ***traffic data collection*** including 1000 classification counts, 896 volume counts, 36 turning movement counts and 9 portable Wavetronix classification counts.
11/12 – 9/13	**Alabama Traffic Data Collection and Analysis, University of Alabama, AL.** *Senior Technician.* Collected 825 classification counts and 730 volume counts. Mr. Smith participated in the ***data collection activities***.

Firm employed by	GRAM		
Name	Randall Smith	Years of relevant experience with this employer	19
Title	Senior Traffic Data Collection Supervisor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		N/A	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Traffic Data Collection	

Experience dates	Experience and qualifications relevant to the proposed contract
	Since 2004, Randall Smith has gained a variety of traffic data collection experience. He has assisted with field work and supervision involving manual and automated turning movement counts, automated classification, speed studies, and volume counts, radar speed studies, travel time runs, and video origin and destination studies. His knowledge and experience promoted him to Houston Branch Manager in 2020. Randall demonstrates a safety-focused work ethic, following all safety policies and procedures.
10/18 – 01/19	**FREEVAL Lane Closure Analysis: Major Metropolitan Areas – LADOTD, Shreveport, Baton Rouge, New Orleans, LA.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.
04/16 – 08/16	**Future I-49 South (Raceland to Westbank), LADOTD, New Orleans, LA.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.
10/20 – Current	**Fort Bend County, Fort Bend County, TX.** *Field Supervisor*. Responsible for coordinating all ***traffic data collection*** efforts, field safety, and field work and supervision.
05/19	**Market St, Houston, TX.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.
04/19	**Texas A&M University, City of College Station, TX.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.
03/19	**ICH Project – Allen Pkwy and Dallas St, Houston, TX.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.
02/19 – 03/19	**SH 288, Harris County, TX.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.
04/18	**SH 99 Grand Pkwy, Houston, TX.** *Field Supervisor*. Responsible for coordinating ***traffic data collection*** efforts, field safety, and field work and supervision.

Firm employed by	GRAM		
Name	Stacie Bittner	Years of relevant experience with this employer	6
Title	Traffic Data Collection Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		AA / 2012 / Accounting	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Traffic Data Collection	

Experience dates	Experience and qualifications relevant to the proposed contract
	Since 2016, Stacie Bittner has acquired a wide range of traffic data collection operations and field experience with GRAM Traffic Counting, Inc. She has developed an overall understanding and knowledge of all aspects of various collection methods, policies, and procedures. Stacie possesses a unique skill set needed to pursue and accomplish any project with professionalism, integrity, and efficiency. Stacie plans and oversees all GRAM Traffic operations and special projects with an attention to detail, while maintaining prompt and effective client relations and correspondence.
10/19	SH 46 from IH 35 to IH 10 - TxDOT, Comal and Guadalupe Counties, TX., *Project/Quality Manager*. Responsible for project oversight, ***traffic data collection verification and report generation***, client correspondence and project coordination, and field and administrative work and supervision.
10/19	Fort Hood Army Base, Fort Hood, TX. *Project/Quality Manger*. Responsible for project oversight, ***traffic data collection verification and report generation***, client correspondence and project coordination, and field and administrative work and supervision.
09/19	US 183 South – TxDOT, Austin, TX. *Project/Quality Manager*. Responsible for project oversight, ***traffic data collection verification and report generation***, client correspondence and project coordination, and field and administrative work and supervision.
05/19	RM 620 Backyard TIA, Austin, TX. *Quality Manager*. Responsible for project oversight, ***traffic data collection verification and report generation***, and administrative work and supervision.
04/19	SH 16 (Ford St) Traffic Engineering/Traffic Studies & Intelligent Transportation System, Llano, TX. *Project/Quality Manager*. Responsible for project oversight, ***traffic data collection verification and report generation***, client correspondence and project coordination, and field and administrative work and supervision.
09/18 – 10/18	CTTS – CIPS Data Collection, SH 130, SH 45SE, and Loop 1, Austin, TX. *Project/Quality Manager*. Responsible for project oversight, ***traffic data collection verification and report generation***, client correspondence and project coordination, and field and administrative work and supervision.

Section 17

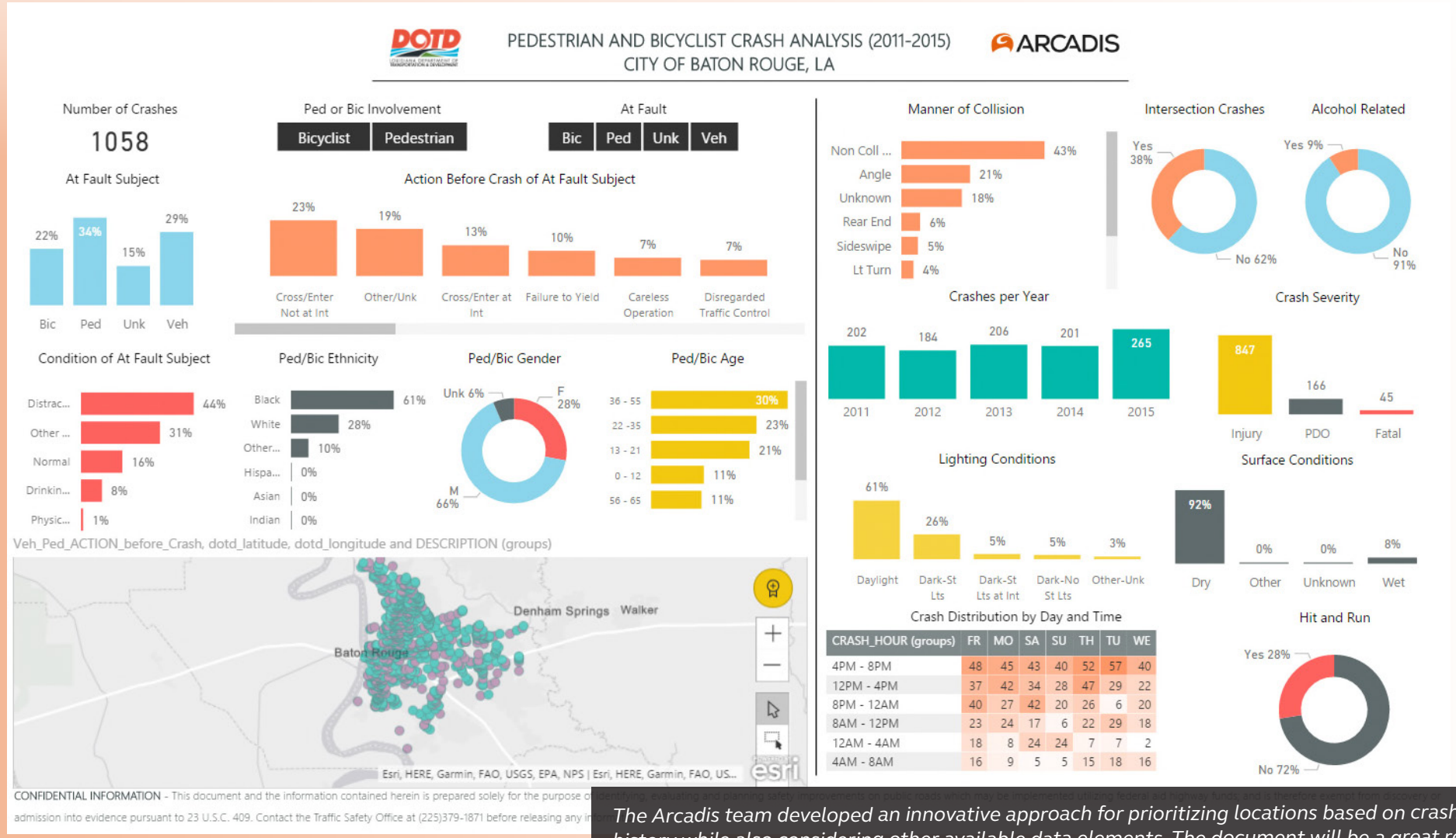


Figure 1 Summary of Pedestrian and Bicycle Crashes in Baton Rouge (2011-2015)

The Arcadis team developed an innovative approach for prioritizing locations based on crash history while also considering other available data elements. The document will be a great resource to planners, engineers, designers, law enforcement agencies, and public officials as they make decisions on current and proposed projects in the city with the goal of reducing fatalities and serious injuries for our most vulnerable road users.

- Adriane S. McRae, PE, LADOTD Highway Safety Administrator, Baton Rouge Safety Action Plan

17: Firm Experience

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Traffic, Planning, Road
Project name	**Traffic Engineering IDIQ**	Firm responsibility (prime or sub?)	Prime
Project number	4400003593	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Statewide, LA	Owner's Project Manager	Jody Colvin
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, 225.242.4635, jody.colvin@la.gov		
Services commenced by this firm (mm/yy)	08/13	Total consultant contract cost ($1,000's)	$3,190
Services completed by this firm (mm/yy)	08/16	Cost of consultant services provided by this firm ($1,000's)	$3,190

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

Firm Members Involved: Akhil Chauhan, Marwan Abboud, Ari Deitch, Thomas Montz, Justin Maderia, Skyler Waaso, Sridhar Basetty, Jose M. Rodriguez, David Fulks, Garret Keller, Josh Chatelain, Sothon Men

The LADOTD's traffic engineering IDIQ contract encompasses a wide variety of transportation services throughout the state, and Arcadis was selected to provide these services which are listed as follows:

- *Signal Warrant Analysis*
- *Traffic Modeling*
- *Traffic Data Collection*
- *Intersection / Corridor / Network Analysis*
- *Traffic Signal Design & Inventory*
- *Stage 0 Feasibility Studies*
- *Aerial Photography & Field Verification*
- *Conceptual Roadway & Access Management Design*

Relevant Services

- Traffic and Safety Analysis
- Advanced Modeling & Microsimulation
- Signal Warrant Analysis
- Signal Design & Timing
- Stage 0 Documentation
- Geometric Design
- Construction Cost Estimates
- Transportation Mgmt Plan
- Traffic Analysis Reviews

Traffic Engineering Studies: Intersection and corridor studies typically included ***traffic data collection***, ***signal warrant analysis***, volume development and projections, existing and future year conditions analysis for ***operational, safety, and system related issues***. A ***wide range of traffic analysis tools*** were utilized including Synchro, Vistro, Vissim (microsimulation), Sidra, Visum, and CORSIM. Studies identified and addressed safety needs through historical crash analysis, and Highway Safety Manual predictive safety analysis. In addition to traditional traffic studies, the Arcadis team successfully augmented LADOTD personnel by providing an expert review of studies conducted by others. ***Arcadis was able to respond successfully to a short project review schedule due to its agile team and our broad range of expertise.***

Traffic Engineering Design / Alternative Development: Task orders often involved the development of ***geometric layouts*** for proposed alternatives, ***cost and benefit analysis*** for study alternatives, and comparative analysis of proposed alternative using state and federal study guidelines. Potential alternatives typically included ***access management***, ***capacity improvements***, enhanced traffic signing, ***traffic signal timing optimization***, and channelizing treatments to ***promote safety and mobility***.

Study Documentation: Comprehensive engineering reports were prepared to document the project purpose and need, study methodology, recommendations, and results. ***Stage 0 Preliminary Scope and Budget*** and ***Environmental Checklists*** were provided for the majority and traffic studies performed under this contract.

VISSIM Microsimulation Model of Continuous Flow Intersection Concept – Lafayette Intersection Study

Task orders delivered under this contract included the following projects:

- *US 71 Corridor Study: Phases 1-3; Rapides Parish*
- *I-10 and Pecue Lane Interchange Analysis Review; EBR Parish*
- *Loyola Drive at I-10 Interchange Analysis Review; Orleans Parish*
- *LA 157 Corridor Study; Bossier Parish*
- *LA 3105 Corridor Study; Bossier Parish*
- *I-20 TMP (Texas State Line to Monkhouse Drive); Caddo Parish*
- *Evangeline Thruway at Louisiana Ave Intersection Study; Lafayette Parish*
- *Ambassador Caffery at Johnston St Intersection Study; Lafayette Parish*
- *US 165 Corridor Study; Ouachita Parish*

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Traffic, Planning, Road
Project name	**Traffic Engineering IDIQ**	Firm responsibility (prime or sub?)	Prime
Project number	4400008292	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Statewide, LA	Owner's Project Manager	Jody Colvin
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, 225.242.4635, jody.colvin@la.gov		
Services commenced by this firm (mm/yy)	01/17	Total consultant contract cost ($1,000's)	$1,330
Services completed by this firm (mm/yy)	01/20	Cost of consultant services provided by this firm ($1,000's)	$1,285

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

Firm Members Involved: Akhil Chauhan, Marwan Abboud, Ari Deitch, Thomas Montz, Justin Maderia, Skyler Waaso, Sridhar Basetty, Jose M. Rodriguez, Max Aguirre

The LADOTD's traffic engineering IDIQ contract encompasses a wide variety of transportation services throughout the state, and Arcadis was selected to provide these services, which are listed as follows:

- *Signal Warrant Analysis*
- *Traffic Modeling*
- *Aerial Photography & Field Verification*
- *Traffic Data Collection*
- *Intersection / Corridor / Network Analysis*
- *Traffic Signal Design & Inventory*
- *Stage 0 Feasibility Studies*

Relevant Services

- Traffic and Safety Analysis
- Microscopic & Mesoscopic Modeling
- Signal Warrant Analysis
- Signal Timing & Inventory
- Alternative Development
- Geometric Design
- Construction Cost Estimates
- Benefit-Cost Analysis
- Transportation Mgmt Plan
- Stage 0 Documentation

Traffic Engineering Studies: Traffic studies included ***interchange justification studies*** and corridor studies that involved ***traffic data collection***, crash analysis, volume projections, ***signal warrant analysis***, ***traffic modelling,*** microsimulation (Vissim), Vistro, Sidra, ***Highway Capacity Software*** analysis, Tier 1 and Tier 2 alternative development, and predictive safety analysis.

As part of this contract, ***Arcadis developed the first mesoscopic models (using Dynameq) in Louisiana*** for EBR and Bossier Parishes to identify construction mitigation strategies. Arcadis organized Dynameq software trainings with LADOTD staff to demonstrate software capabilities and calibration criteria.

Traffic Engineering Design / Alternative Development: Alternatives were developed using a ***tiered data driven approach*** to address specific needs of the project. Tier 1 analysis evaluated a wide range of alternatives through a high-level evaluation of ***operational and safety performance***, and ***right-of-way and environmental constraints***. Tier 2 analysis involved a more detailed analysis through development of conceptual layouts and critical geometry, traffic analysis, predictive safety analysis, ***benefit-cost analysis***, and detailed ROW and environmental impacts. Alternatives typically included access management, corridor expansion, ***interchange access improvements***, enhanced traffic signing, ***traffic signal timing optimization***, and channelizing treatments to ***promote safety and mobility***.

Mesoscopic Model (Dynameq) Developed for EBR Parish to Evaluate Mitigation Strategies for I-10 Widening

Study Documentation: Comprehensive engineering reports were prepared in accordance with ***TEPR requirements*** to document the project purpose and need, study methodology, recommendations, and results. Additionally, some studies involved the development of ***Interchange Modification / Justification Reports.*** Stage 0 documentation including ***Preliminary Scope and Budget*** and ***Environmental Checklists*** were provided as appropriate.

Task orders delivered under this contract included the following projects:

- *I-10 (LA 415 to Essen Lane) Data Collection; EBR Parish*
- *I-20 Mesoscopic Model and TMP; Bossier Parish*
- *US 61 Traffic & Access Management Study; EBR Parish*
- *I-10 Mesoscopic Model; EBR Parish*
- *I-10 (LA 73 to LA 429) Interchange Feasibility Study; Ascension Parish*

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Traffic, Planning, ITS
Project name	**I-10 CMAR - Traffic Engineering Services**	Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Baton Rouge, Louisiana	Owner's Project Manager	Nicholas Olivier
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, 225 379 1133, Nicholas.Oliver@la.gov		
Services commenced by this firm (mm/yy)	10/20	Total consultant contract cost ($1,000's)	$2,500
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$2,500

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

Firm's Role: ***Arcadis is providing all traffic engineering services*** for this high-profile project to widen I-10 through Baton Rouge, including traffic data collection, traffic modeling and studies, interchange modification report, mesoscopic modeling, TMP, traffic signal timing, signal design, and permanent signing design.

Firm Members Involved: Akhil Chauhan, Marwan Abboud, Kester Hollier, Thomas Montz, Ari Deitch, Jose M. Rodriguez, Justin Maderia, Sridhar Basetty, Max Aguirre, Meredith Guidry, Joshua Cook, Shafia Nazneen

Relevant Services

- Traffic Modeling and Analysis
- Historical Crash Analysis
- Predictive Safety Analysis
- Traffic Data Collection
- Interchange Modification Report
- Mesoscopic Modeling
- Transportation Management Plan
- Traffic Signal Timing
- Traffic Signal Inventory & Design
- Permanent Signing Design

Traffic Modeling / Studies / Interchange Modification Reports

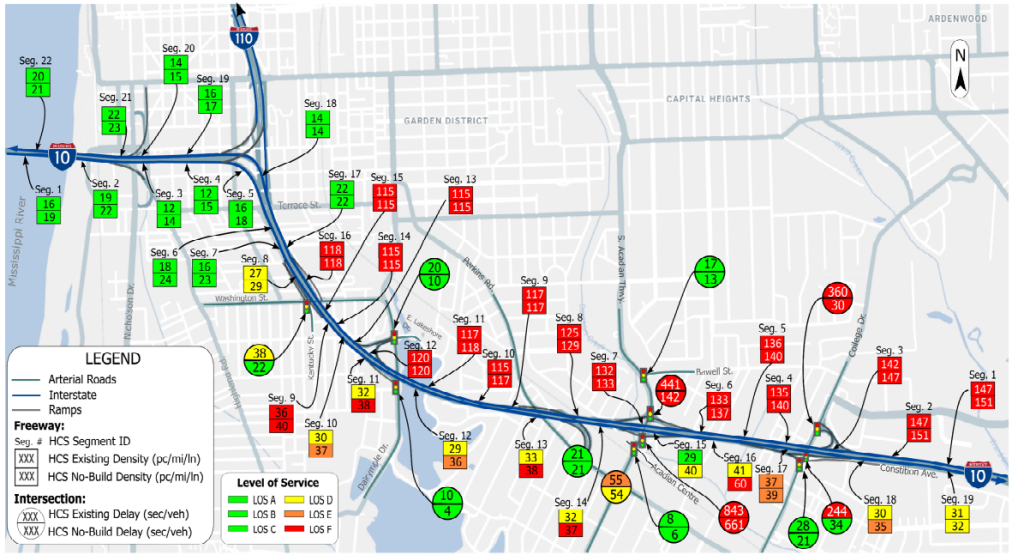
Traffic analysis and modeling is being performed to determine ***freeway, interchange and corridor improvements*** being implements as part of the project. Analysis tools include Highway Capacity Software, Sidra, and Synchro. Traffic data collection and volume development is also being performed to establish existing and future year conditions. ***Interchange Modification Reports*** are being developed to document results. All study tasks are performed in accordance with ***TEPR Requirements***. Additionally, ***mesoscopic models (using Dynameq)*** are being utilized to assess the impacts of construction sequencing within the broader transportation network.

Signal Design and Inventory / Permanent Signing Design Plans

Arcadis is developing ***signal design plans*** for permanent and temporary conditions. ***Traffic signal inventory*** was conducted for all traffic signals. Design plans include signal equipment and detection layouts, wiring diagrams, timing plans, and quantities. ***Permanent signing plans*** are also being developed for interstate and arterial segments of the project.

Transportationg Management Plan

Based on mesoscopic modeling results, Arcadis is developing mitigation strategies to ***address operations impacts of construction sequencing***. Mitigation strategies include identifying critical alternative routes that will be utilized during construction, and determining improvements to the broader transportation network that will be necessary to support construction activities. Arcadis is also providing ***construction signal timing*** to continually optimize the performance of critical alternative routes during construction.



Traffic Analysis Results for I-10 Corridor and Interchanges using Highway Capacity Software
I-10 CMAR Interchange Modification Report

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Signal Design IDIQ**	Firm responsibility (prime or sub?)	Prime
Project number	4400008852	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Statewide, LA	Owner's Project Manager	Andre Fillastre
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 242 4646, andre.fillastre@la.gov		
Services commenced by this firm (mm/yy)	12/16	Total consultant contract cost ($1,000's)	$2,000
Services completed by this firm (mm/yy)	02/20	Cost of consultant services provided by this firm ($1,000's)	$216

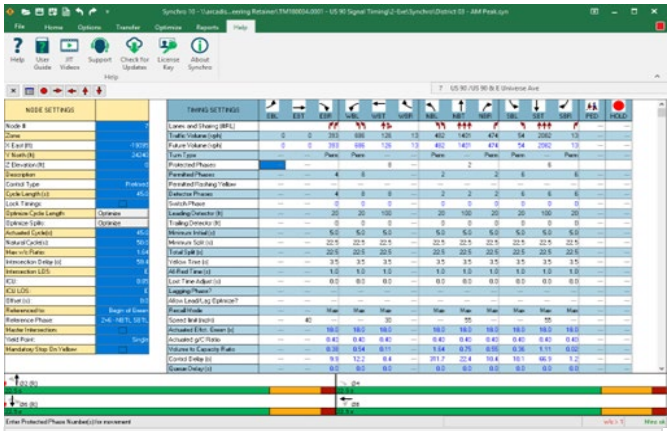
Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Firm Members Involved: Akhil Chauhan, Marwan Abboud, Thomas Montz, Ari Deitch, Tony Moore, Skyler Waaso, Max Aguirre

Relevant Services

- Traffic Data Collection
- Intersection & Corridor Analysis
- Traffic Modeling & Analysis
- Traffic Signal Inventory
- Signing Timing Optimization
- Traffic Signal Design
- Signal Warrant Analysis

Arcadis was selected to provide ***traffic engineering services*** including traffic data collection, signal warrant analysis, intersection/corridor analysis, traffic signal inventory (TSI), and traffic signal design plans. Example task orders delivered under this IDIQ are described below:



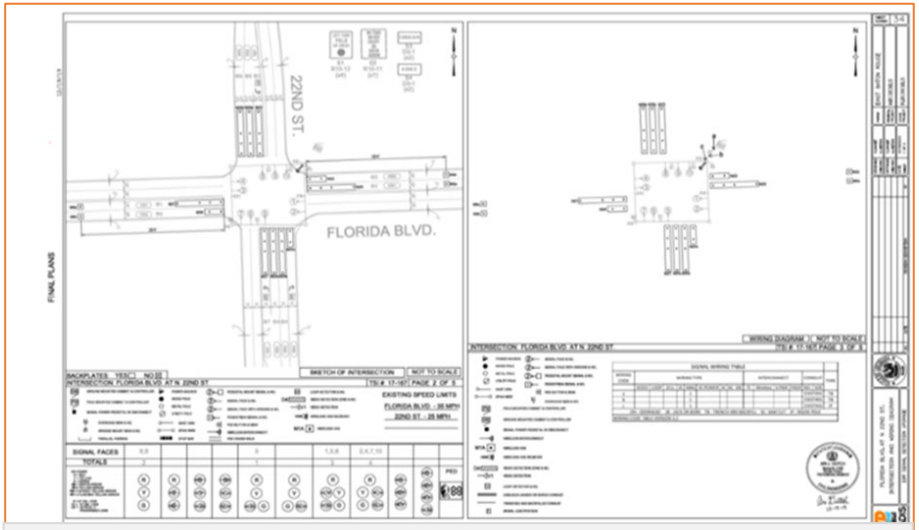
Optimized signal timing plan created using Synchro Software – US-90 Signal Timing Upgrades

US-90 Signal Timing Upgrades; Lafayette Parish

- Collected ***traffic data*** including classification tube counts, turning movement counts, peak period observations, and travel time information.
- Conducted ***traffic signal inventory*** for all signalized intersections.
- Performed ***corridor traffic analysis*** using Synchro Software.
- Developed ***optimized signal timing plans*** to maximize the performance of the existing network.
- All study tasks and documentation were completed in accordance with ***TEPR guidelines***.

East Baton Rouge Signal Design and Detection Upgrades; EBR Parish

- Conducted ***traffic signal inventory for 39 signalized intersections*** in EBR Parish.
- Developed ***signal design plans*** showing equipment and detection layout, wiring diagram, timing plans, and quantities.
- Coordinated with product manufacturers to understand capabilities, specifications, and limitations of magnetometer detection systems.
- Designed signal equipment and detection to support ***signal performance measures*** for signals along critical corridors within EBR Parish.
- Construction plans and quantities were completed for all 39 signalized intersections. ***Plans were developed and finalized within an expedited 6-month schedule.***



Signal Design Plans showing equipment layout and wiring diagram at Florida Blvd and 2nd Street – EBR Signal Design and Detection Upgrades

Firm name	INTELLIGENT TRANSPORTATION SYSTEMS®			Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Impact Studies IDIQ**			Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Ascension Parish		
Project location	Ascension Parish, LA			Owner's Project Manager	Jerome Fournier
Owner's address, phone, email	615 Worthey Road, Gonzales, LA 70737, 225 450 1371, jerome.fournier@apgov.us				
Services commenced by this firm (mm/yy)	10/22	Total consultant contract cost ($1,000's)			N/A
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			N/A

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

Firms Role: IDIQ Contract to perform traffic engineering services and impact studies for proposed commercial and residential developments throughout Ascension Parish.

Firm Members Involved: Kimberly McDaniel, Clarke Chauvin, Diane Hammonds, Jonathan Fox

Relevant Services

- Traffic Modeling and Analysis
- Traffic Impact Studies
- Intersection and Corridor Studies
- Signal Warrant Analysis
- ITE Trip Generation Manual
- Traffic Signal Upgrades
- Access Management
- Agency Coordination
- TEPR Compliance

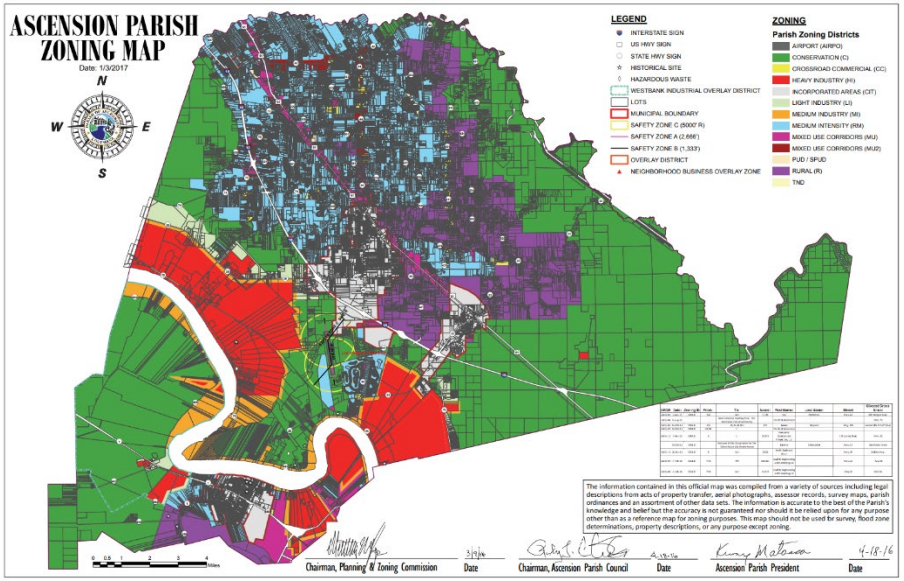
Project Background

Due to rapid growth throughout the Parish, the leadership of Ascension Parish receives multiple requests for permitting of new developments every month. While the parish required ***traffic impact studies*** to be completed by the developers' chosen consulting engineer, the Parish staff found the reports and results the Parish received were inconsistent and were not always objective. As a result, the Parish Council recently passed an ordinance that would allow the Parish to contract consulting firms directly to perform the studies for the proposed developments. The Parish selected ITS LLC for an as-needed contract to perform these traffic impact studies.

Traffic and Safety Studies

Initial Impact Assessments - The scope of work includes performing ***traffic impact studies*** for a variety of commercial and residential developments that may include subdivisions, multi-family developments (apartment homes), strip retail centers, big box stores, restaurants, office complexes, industrial facilities, and more. Each proposed development is unique and will have differing requirements for the studies.

TEPR Traffic Studies - In cases where the development lies within an area that would trigger the need for a study submitted to LADOTD, the study performed under this contract will ***fully-comply with all LADOTD Traffic Engineering Process and Report requirements*** so that the Parish' and LADOTD's review and approval processes can occur simultaneously, adding efficiencies to the process. Traffic studies may a include a wide-range of traffic engineering applications such as ***traffic data collection***, ***access management studies***, ***signal warrant studies***, roadway improvements, ***traffic signal upgrades***, etc.



Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*	Traffic, Planning, Road
Project name	**Traffic Safety Studies IDIQ**			Firm responsibility (prime or sub?)	Prime
Project number	4400004404	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Statewide, LA			Owner's Project Manager	Adriane McRae
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1950, adriane.mcrae@la.gov				
Services commenced by this firm (mm/yy)	08/14	Total consultant contract cost ($1,000's)			$1,250
Services completed by this firm (mm/yy)	03/21	Cost of consultant services provided by this firm ($1,000's)			$1,085

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

Firms Role: Arcadis conducted ***traffic and safety studies to identify countermeasures and evaluate project feasibility***. Firm members involved and task orders delivered under this IDIQ contract are described below:

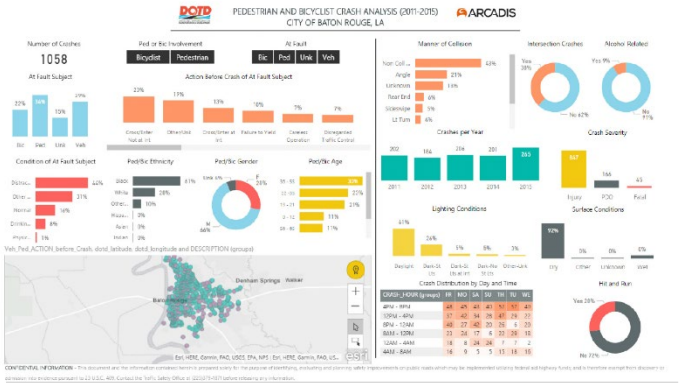
Firm Members Involved: Akhil Chauhan, Marwan Abboud, Thomas Montz, Ari Deitch, Jose M. Rodriguez, Max Aguirre, Garret Keller, Meredith Guidry, Justin Maderia, Skyler Waaso, Sridhar Basetty

Relevant Services

- Crash History & Safety Analysis
- Traffic Modeling
- Traffic Signal Improvements
- Data Collection
- Corridor and Intersection Studies
- Pedestrian & Bicycle Improvements
- Alternative Development
- Conceptual Drawings
- Construction Cost Estimates
- Predictive Safety Analysis
- Benefit-Cost Analysis
- Stage 0 Documentation

I-49 Interchange Safety Feasibility Study, Lafayette Parish

- Collected ***traffic count data*** and conducted ***traffic analysis*** for existing and future years. Analysis utilized Vistro and Sidra software. Developed ***optimized signal timing plans***.
- Reviewed crash reports and conducted ***historical crash analysis*** to identify safety deficiencies.
- Developed alternatives that seek to ***address operational and safety needs*** along I-49 and at interchange locations.
- Provided ***Stage 0 Documentation*** including Preliminary Scope and Budget and Environmental Checklists.



Custom Safety Data Dashboard showing historical crash trends and "hotspots" – EBR Pedestrian Safety Project

New Orleans Pedestrian Safety Feasibility Study, Orleans Parish

- Collected ***traffic and pedestrian count data*** at 20 high-risk intersections with a history of pedestrian fatalities.
- Conducted ***traffic analysis*** of existing and future year conditions using VISTRO and SIDRA.
- Performed in depth ***analysis of crash history*** with a focus on pedestrian and bicycle crashes.
- Developed safety countermeasures to address identified operational and safety needs, including ***traffic signal, signing, and striping improvements***.
- Conducted benefit-cost analysis for proposed countermeasures using ***HSM predictive safety methods***.
- Coordinated closely with LADOTD and NORPC to develop ***context sensitive solutions.***
- Provided ***Stage 0 Documentation*** including Preliminary Scope and Budget and Environmental Checklists.

Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments; EBR Parish

- Developed safety action plan that identified 10 locations with highest risk of pedestrian and bicycle crashes.
- Conducted Road Safety Assessments using a multi-disciplinary team of transportation engineers.
- Developed safety countermeasures to ***address operational and safety needs***.
- Coordinated closely with LADOTD, District, and Stakeholders to develop ***context sensitive solutions***.

Implemented low-cost safety improvement on Read Blvd High-Visibility Crosswalk and Refuge Island

Firm name	INTELLIGENT TRANSPORTATION SYSTEMS	Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Study and Signal Design - Calcasieu Point LNG**	Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	Lake Charles LNG
Project location	Calcasieu Parish, LA	Owner's Project Manager	John Kelly
Owner's address, phone, email	1300 Main Street, Houston Tx 77002, 713 989 7411, john.kelly@energytransfer.com		
Services commenced by this firm (mm/yy)	09/15	Total consultant contract cost ($1,000's)	(Confidential)
Services completed by this firm (mm/yy)	12/16	Cost of consultant services provided by this firm ($1,000's)	(Confidential)

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

Firms Role: ITS, LLC conducted ***traffic engineering services*** including a ***traffic study*** for three major corridors crossing I-210 to determine the impacts of LNG facility developments. Corridor and intersection improvements, and signal improvements were identified. ***Signal design plans*** and ***traffic signal inventory*** were developed for proposed adaptive signal improvements.

Firm Members Involved: Jonathan Fox, Clarke Chauvin

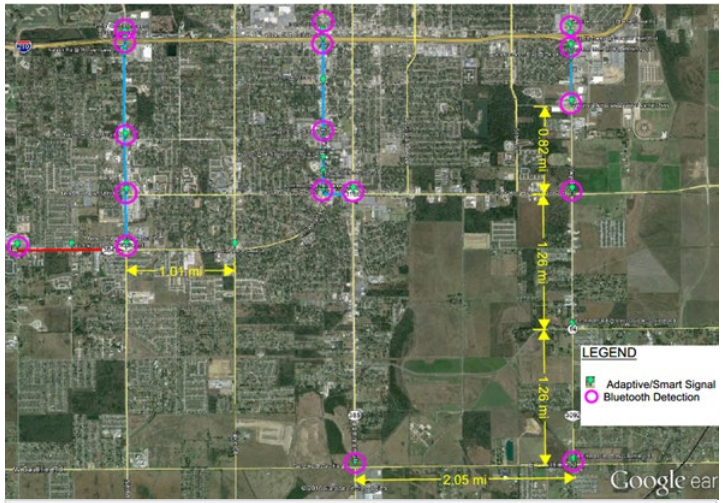
Relevant Services

- Traffic Impact Study
- Traffic Data Collection
- Corridor and Intersection Studies
- Traffic Modeling
- Volume Development
- Signal Warrant Analysis
- Signal Design
- Traffic Signal Inventory
- Transportation Management

Traffic Study

Needs Assessment - ITS LLC was initially tasked with performing an updated ***traffic study along three major corridors crossing I-210*** in Lake Charles, LA, to determine the impacts of the facility development, both during and after construction, and identify areas for improvements. The traffic study included ***data collection*** along the three corridors, ***traffic modeling and analysis***, volume development, ***alternative development*** and impact mitigation, and ***signal warrant analysis***. Because at that time the region was undergoing unprecedented industrial growth, and subsequently residential and commercial growth, the traffic study was expansive and changed scope throughout the process as more information was known about future developments in the area. The study mainly focused on three plant construction projects with different levels, phasing, and timelines of construction.

Study Recommendations - The study ultimately led to proposed ***signal improvements*** along the three corridors as well as some additional isolated and ***temporary signals***. ITS LLC was also tasked with creating permit plans for almost 30 unique traffic signals including along coordinated corridors, isolated permanent, and isolated temporary signals which were fully actuated.



Proposed Adaptive Signal Installations in Lake Charles, LA

Adaptive Traffic Signal Evaluation and Design

Signal Timing Development - ITS LLC was later tasked with accommodating some of the planned construction activities. For site prep, one developer intended to bring multiple loads of dirt from one side of the facility to the other, crossing LA 384 (Big Lake Rd.). ITS LLC performed signal timing analysis for the addition of a signal for the temporary haul road at a state highway crossing. This was a unique situation that required modification of software defaults to accurately portray the size, startup time, and top speed of these oversized vehicles. Factors evaluated in the analysis included ***safety***, ***quantifying volumes***, ***designing signal timings***, and evaluating the long-term duration of these activities as well as the daily schedule of activities.

Signa Design and Inventory - ITS LLC produced ***traffic signal design plans*** and ***traffic signal inventory in*** accordance with LADOTD Signal Manual and Guidelines.

Firm name	INTELLIGENT TRANSPORTATION SYSTEMS	Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Adaptive Traffic Signal System Design - SASOL Lake Charles Chemical Project**	Firm responsibility (prime or sub?)	Sub
Project number	L2CC-990-11-DW-24	Owner's name	Lake Charles LNG
Project location	Calcasieu Parish, LA	Owner's Project Manager	Eric Flemming
Owner's address, phone, email	2201 Old Spanish Trail, Westlake, LA, eric.flemming@worleyparsons.com		
Services commenced by this firm (mm/yy)	08/15	Total consultant contract cost ($1,000's)	(Confidential)
Services completed by this firm (mm/yy)	07/19	Cost of consultant services provided by this firm ($1,000's)	(Confidential)

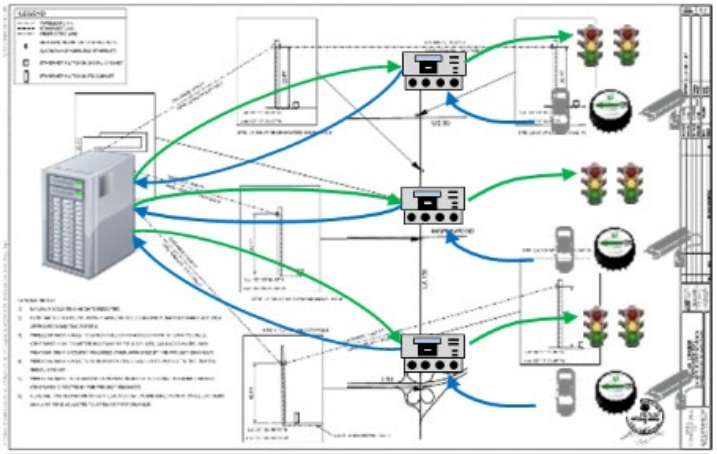
Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Firms Role: ITS LLC worked with the Louisiana Department of Transportation and Development and Trafficware, the system manufacturer, to ***design and implement the first Adaptive traffic signal system in the State of Louisiana***. The system has eased travel along the corridor, allowing better progression and more efficient operations.

Firm Members Involved: Jonathan Fox, Clarke Chauvin

Relevant Services

- Traffic Signal Design
- Adaptive Signal System Design
- Traffic Signal Inventory
- Signal Communication Design
- Agency and Vendor Coordination
- LADOTD Design Guidelines
- Signal Maintenance and Operations



Signal Design Plans for Adaptive Signal System

Adaptive Traffic Signal Design

Getting to the point of turning on the system took a lot of project management, planning, coordination, design and integration. ITS LLC performed ***signal design for ten traffic signals*** on the Sampson St. corridor (System A) and the LA 108 corridor (System B). The design included upgrading controllers to ATCs, upgrading detection for increased accuracy and ***traffic data collection***, as well as PTZ CCTV camera for remote monitoring (see picture) and seven BlueTOAD units for travel time and speed data collection. In addition to determining the network allocations and communications paths, ITS LLC also ***designed, configured, and implemented the communications equipment***. Traffic ***signal design plans*** and ***traffic signal inventory*** were developed for the proejct.

Monitoring of Implemented Adaptive Signal Systems

Signal Maintenance and Operations

A private cellular network connection was originally chosen as an alternative to fiber optic communications. ITS LLC was retained to provide ongoing maintenance support which has included troubleshooting server, network, and detection issues. Since DOTD's ITS Section completed the Lake Charles ITS Phase 2, it allowed ITS LLC to move the cellular communications system over to an unlicensed wireless radio system. ITS LLC conducted wireless assessments, ***designed, configured and installed 18 radio units between the two systems***. This has resulted in fewer adaptive nuisance alarms as well as removed ongoing monthly cellular charges. This project ultimately brought 12 adaptive signals online and established the infrastructure needed to continue to add adaptive systems in the area. Sasol and the design team were recognized for their efforts by receiving the ***2018 Louisiana Transportation Conference award for "Use of Innovative Product or Technology."***

Firm name	BONTON ASSOCIATES			Past Performance Evaluation Discipline(s)*	Road
Project name	**LA 73: US 61 to Essen Lane Roadway and Multi-Modal Facility Design**			Firm responsibility (prime or sub?)	Sub
Project number	H.010652.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	East Baton Rouge, LA			Owner's Project Manager	Ryan Felder, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802-4438, 225-379-1366, ryan.felder@la.gov				
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost ($1,000's)			$102
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			$102

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

Firms' Role: Bonton Associates is responsible for developing all ***typical sections, details, quantities***, ***cost estimates***, and quantity tables associated with the pavement rehabilitation and sidewalk improvements for the project limits. Bonton also conducted a field reconnaissance and LADOTD coordination to ***assess existing conditions*** and support the identification of the PCC panel replacement locations.

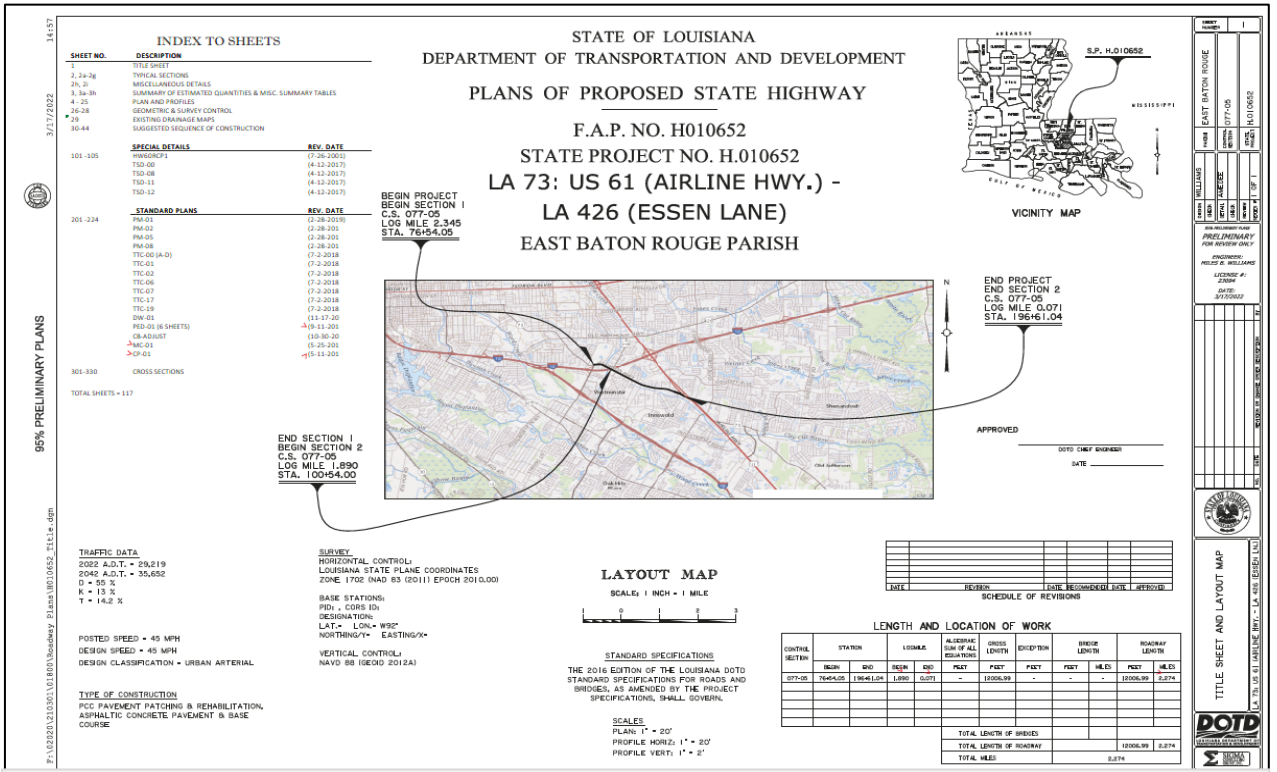
Firm Members Involved: Marcus Bonton, LaDarien Beene

Bonton Associates was contracted as a subconsultant (*under the 4400019010 IDIQ Contract for Roadway Design Services*) to develop ***preliminary and final design plans*** for the pavement rehabilitation improvement segment (Drusilla Lane to Essen Lane) of the LA 73: US 61 (Airline) – Essen Lane project. The pavement rehabilitation improvements are in conjunction with the full pavement reconstruction segment located between Drusilla Lane and Airline Highway.

Roadway corridor improvements within the rehabilitation segment includes Portland cement concrete (PCC) panel replacement, ***sidewalk repair/replacement***, ***ADA curb ramp installation***, and concrete curb replacement based on LADOTD Preservation-Rehabilitation-Replacement (PRR) guidelines.

Relevant Services

- Roadway Design
- Data Collection
- Sidewalk Improvements
- ADA Design
- Preliminary and Final Plans
- LADOTD Design Guidelines
- Quantities
- Cost Estimates



95% Preliminary Plans for Roadway and Multi-Modal Improvements on LA 73

Firm name	BONTON ASSOCIATES	Past Performance Evaluation Discipline(s)*	Road
Project name	**Ardenwood-Lobdell Connector Roadway Design**	Firm responsibility (prime or sub?)	Prime
Project number	20-CP-HC-0017	Owner's name	East Baton Rouge Parish of Department of Transportation and Drainage
Project location	East Baton Rouge, LA	Owner's Project Manager	Kahli Cohran, P.E.
Owner's address, phone, email	222 Saint Louis Street, 8th Floor, Baton Rouge, LA, 225-283-0101, cohran@civilsolutioncgi.com		
Services commenced by this firm (mm/yy)	11/22	Total consultant contract cost ($1,000's)	$677
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$677

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

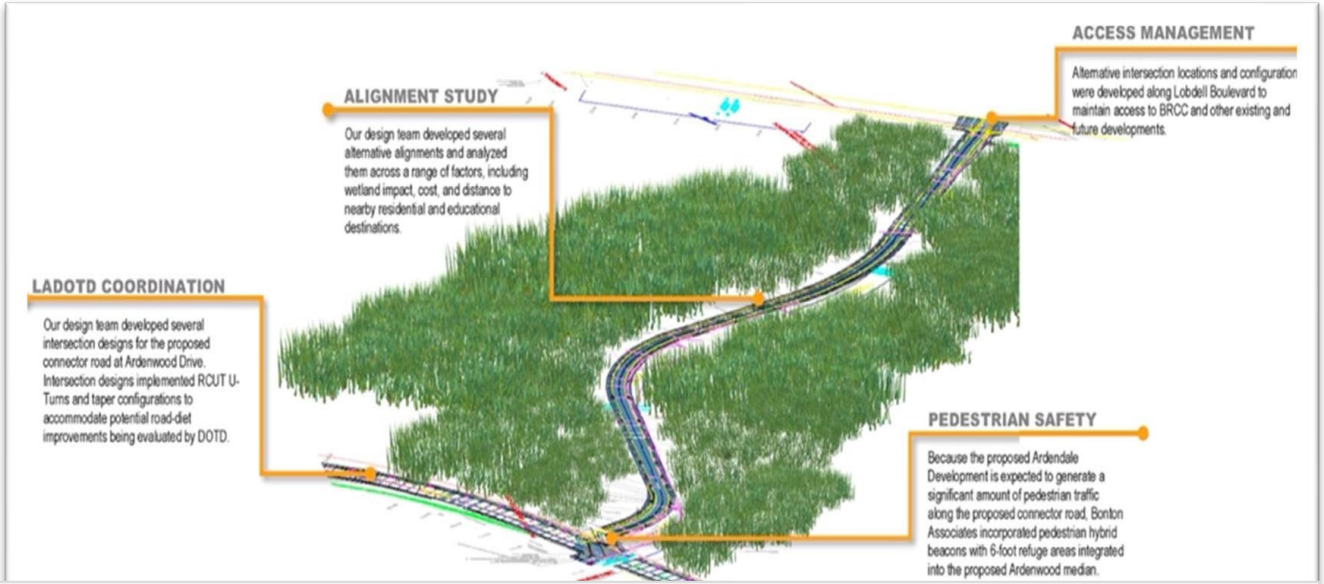
Firms' Role: As prime roadway designer, Bonton Associates is developing the ***roadway design plans*** through preparing horizontal and vertical geometry, drainage analysis, drainage design, design drainage maps, green infrastructure analysis and design, earthwork modeling, design surface modeling, quantities, ***cost estimates***, and engineering calculations.

Firm Members Involved: Marcus Bonton, LaDarien Beene

Bonton Associates is contracted by the City-Parish/MOVEBR Program to prepare the Final Design of a new connector road within the proposed Ardendale development. ***The proposed section is an urban/walkable 2-lane with pedestrian accommodations***. The new connector road will connect Ardenwood Drive and Lobdell Boulevard and improve traffic capacity, ***pedestrian connectivity***, ***safety,*** and ***access management***. The Final Design Components include: Topographical Survey and Development of Right-of-Way maps; Subsurface Utility Engineering (SUE); Landscaping and Green Infrastructure Implementation; Electrical and Illumination Design; Final Design Roadway and Drainage Construction Plans & Specifications.

Relevant Services

- Geometric Design
- Roadway Design
- Drainage Design
- Multi-modal Design
- ADA Design
- LADOTD Design Guidelines / Coordination
- Cost Estimates



Concept rendering of new Connector route between Ardenwood and Lobdell

Firm name	BONTON ASSOCIATES			Past Performance Evaluation Discipline(s)*	Road
Project name	**LA 20: LA 304 to LA 307 Roadway Design**			Firm responsibility (prime or sub?)	Sub
Project number	H.014728.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Lafourche Parish, LA			Owner's Project Manager	D'lon B. Spurlock, PE
Owner's address, phone, email	Capitol Access Road, Baton Rouge, LA 70802-4438, 225 379-1948, dlon.spurlock@la.gov				
Services commenced by this firm (mm/yy)	11/22	Total consultant contract cost ($1,000's)			$221
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			$221

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

Firms' Role: In compliance with ***LADOTD design guidelines***, Bonton Associates is preparing ***Preliminary and Final Roadway Design Plans*** for the shoulder widening and associated drainage design. As part of the deliverable, typical sections, details, ***plan & profile sheets*** (horizontal/vertical geometry), drainage design (open and subsurface), design drainage maps, earthwork modeling (design surface/DTM), cross-sections, engineering calculations, and quantities are to be completed.

Firm Members Involved: Marcus Bonton, LaDarien Beene, Kiran Gurung

Bonton Associates was contracted as a subconsultant (*under the 4400019010 IDIQ Contract for Roadway Design Services*) to perform all engineering services necessary for the design and development of construction plans to ***construct 6-ft shoulders along a 5-mile segment of LA 20*** between LA 304 and LA 307 in Lafourche Parish, LA. The existing road is a 2-lane rural roadway with a combination of open ditch and subsurface. In conjunction with the shoulder improvements, drainage analysis and design (for open ditch and subsurface), earthwork, and ***pavement markings and signage design*** are provided.

Relevant Services

- Geometric Design
- Roadway Design
- Preliminary and Final Plans
- Drainage Design
- Signing and Marking Design
- LADOTD Design Guidelines
- Quantities
- Cost Estimates

LA 20 Corridor Between LA 304 and LA 307 in Lafourche Parish, LA

Firm name	Southern Traffic Services / REKOR			Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Engineering IDIQ – I-10 (LA 415 to Essen Lane) Data Collection**			Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	East and West Baton Rouge Parishes, LA			Owner's Project Manager	Jody Colvin
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, 225 242 4635, jody.colvin@la.gov				
Services commenced by this firm (mm/yy)	08/17	Total consultant contract cost ($1,000's)			$328
Services completed by this firm (mm/yy)	10/19	Cost of consultant services provided by this firm ($1,000's)			$30

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

Firms Role: Traffic Data Collection

Firm Members Involved: Justin Smith, Joel Ponder

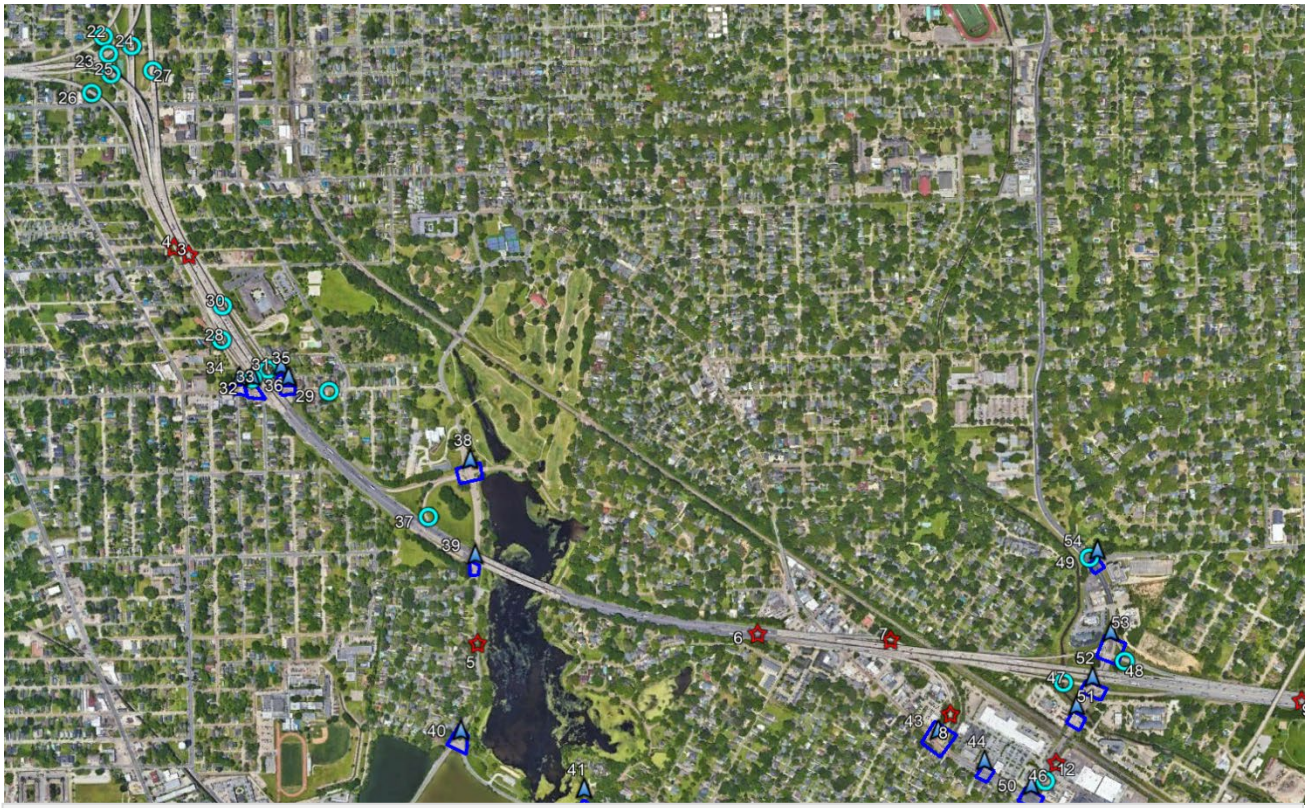
Southern Traffic Services provided ***traffic data collection*** services for the project, which included data collection on I-10 from LA 415 to Essen Lane. Data collection was conducted at several locations along the I-10 corridor and arterials with access connections to I-10. Data collection types provided for this project are listed as follows:

- 7-day, 24-hour classification tube counts
- 48-hour approach classification tube counts
- 48-hour approach volume counts
- Period intersection turning movement counts

Southern Traffic Services ***coordinated with Arcadis and LADOTD*** to ensure that all data was ***collected in accordance with TEPR requirements,*** and that data collection was performed the same time as peak period observations.

Relevant Services

- Traffic Data Collection
- Vehicle Classification Tube Counts
- Peak Period Turning Movement Counts
- Data Reports
- LADOTD Data Collection Guidelines



Traffic Count Data was collected along the I-10 Corridor and Arterials with Access Connections within the Project Limits

Firm name	Southern Traffic Services / REKOR	Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Engineering IDIQ - LA 157 Corridor Study**	Firm responsibility (prime or sub?)	Sub
Project number	H.011424	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Bossier Parish, LA	Owner's Project Manager	Jody Colvin
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, 225 242 4635, jody.colvin@la.gov		
Services commenced by this firm (mm/yy)	10/16	Total consultant contract cost ($1,000's)	$364
Services completed by this firm (mm/yy)	4/17	Cost of consultant services provided by this firm ($1,000's)	$30

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

Firms Role: Traffic Data Collection

Firm Members Involved: Justin Smith, Joel Ponder

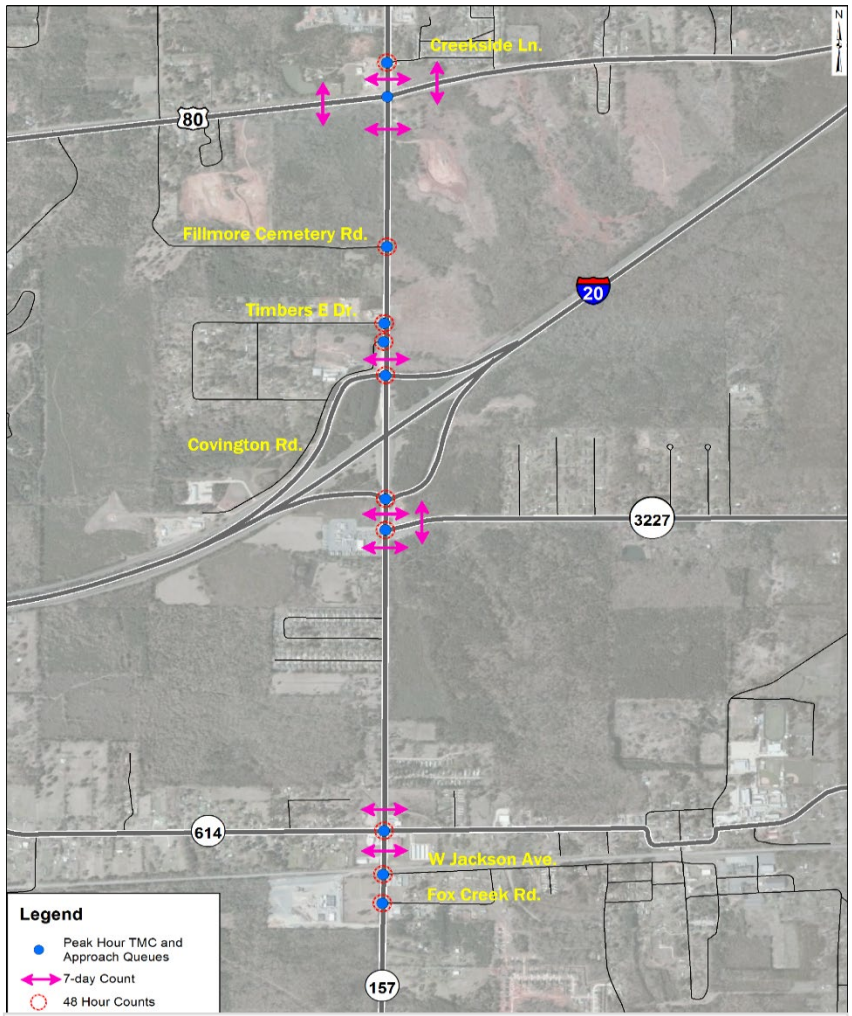
Southern Traffic Services provided **traffic data collection** for the project, which included LA 157 from US 80 to LA 614 in Bossier Parish, LA. Traffic data collection types provided by Southern Traffic Services are listed below:

- Spot Speed Studies
- 7-day, 24-hour classification tube counts
- Peak period intersection turning movement counts
- 15-minute driveway counts

Southern Traffic Services **coordinated closely with Arcadis and LADOTD** to ensure that data collection was **conducted in accordance with LADOTD policy** and at the same time that peak period observations were performed.

Relevant Services

- Traffic Data Collection
- Vehicle Classification Tube Counts
- Peak Period Turning Movement Counts
- Driveway Counts
- Speed Studies
- Data Reports
- LADOTD Data Collection Guidelines



Traffic Count Data was collected along LA 157 between LA 614 and US 79/80

Firm name	Southern Traffic Services / REKOR	Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Engineering IDIQ - I-20 Mesoscopic Model and TMP**	Firm responsibility (prime or sub?)	Sub
Project number	H.012889	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Bossier Parish, LA	Owner's Project Manager	Hadi Shirazi
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, 225 379 1929, hadi.shirazi@la.gov		
Services commenced by this firm (mm/yy)	4/18	Total consultant contract cost ($1,000's)	$699
Services completed by this firm (mm/yy)	5/18	Cost of consultant services provided by this firm ($1,000's)	$28

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

Firms Role: Traffic Data Collection

Firm Members Involved: Justin Smith, Joel Ponder

Southern Traffic Services provided **traffic data collection** services for this project, which involved the development of a **calibrated mesoscopic model** of I-20 and the surrounding local network within Bossier Parish. A transportation management plan was also developed for the project.

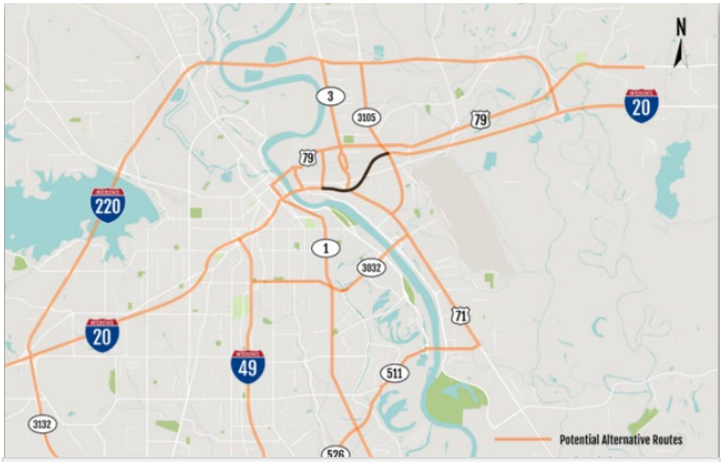
Relevant Services

- Traffic Data Collection
- Vehicle Classification Tube Counts
- Peak Period Turning Movement Counts
- Data Reports
- LADOTD Data Collection Guidelines

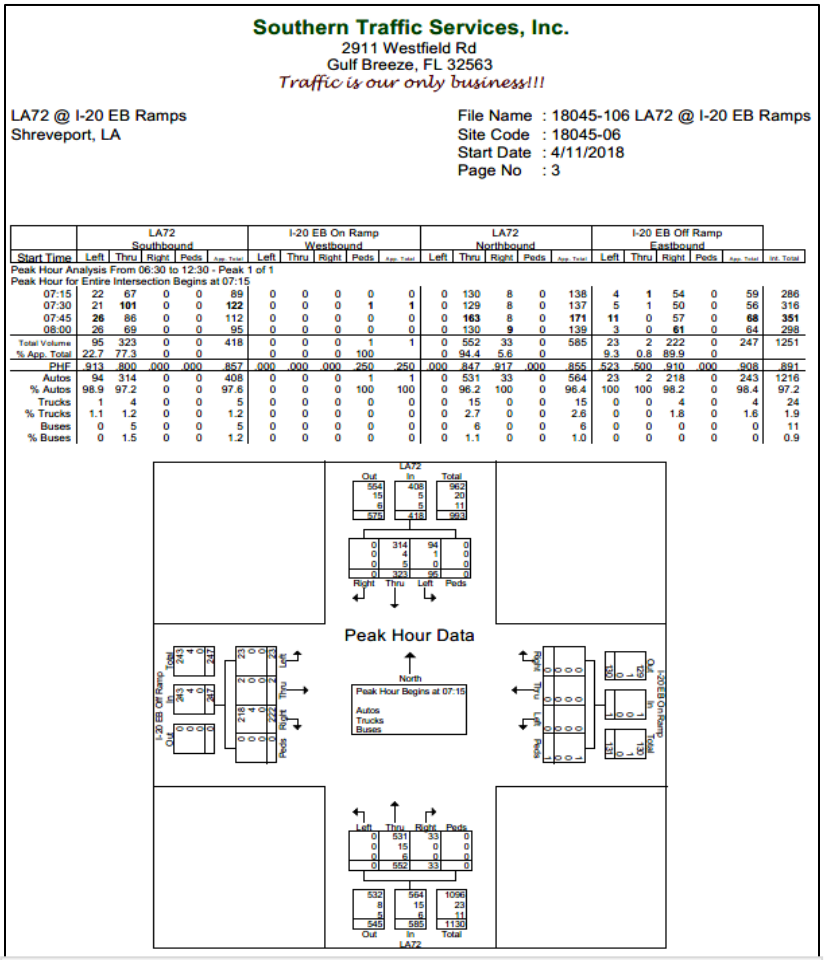
Southern Traffic Services provided the following data collection types for the project:

- 8-hour intersection turning movement counts (queue studies included)
- 12-hour vehicle classification tube counts
- 48-hour vehicle classification tube counts

Southern Traffic Services **coordinated closely with Arcadis and LADOTD** to ensure that data collection was **conducted in accordance with TEPR requirements**.



I-20 Mesoscopic Model Study Area



Southern Traffic Services, Inc.
2911 Westfield Rd
Gulf Breeze, FL 32563
Traffic is our only business!!!

LA72 @ I-20 EB Ramps
Shreveport, LA

File Name : 18045-106 LA72 @ I-20 EB Ramps
Site Code : 18045-06
Start Date : 4/11/2018
Page No : 3

Start Time	LA72 Southbound Left	Thru	Right	Peds	App. Total	I-20 EB On Ramp Westbound Left	Thru	Right	Peds	App. Total	LA72 Northbound Left	Thru	Right	Peds	App. Total	I-20 EB Off Ramp Eastbound Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 06:30 to 12:30 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15																					
07:15	22	67	0	0	89	0	0	0	0	0	0	130	8	0	138	4	1	54	0	59	286
07:30	21	**101**	0	0	**122**	0	0	0	**1**	**1**	0	129	8	0	137	5	1	50	0	56	316
07:45	**26**	86	0	0	112	0	0	0	0	0	0	**163**	8	0	**171**	**11**	0	57	0	**68**	**351**
08:00	26	69	0	0	95	0	0	0	0	0	0	130	**9**	0	139	3	0	**61**	0	64	298
Total Volume	95	323	0	0	418	0	0	0	1	1	0	552	33	0	585	23	2	222	0	247	1251
% App. Total	22.7	77.3	0	0		0	0	0	100		0	94.4	5.6	0		9.3	0.8	89.9	0		
PHF	.913	.800	.000	.000	.857	.000	.000	.000	.250	.250	.000	.847	.917	.000	.855	.523	.500	.910	.000	.908	.891
Autos	94	314	0	0	408	0	0	0	1	1	0	531	33	0	564	23	2	218	0	243	1216
% Autos	98.9	97.2	0	0	97.6	0	0	0	100	100	0	96.2	100	0	96.4	100	100	98.2	0	98.4	97.2
Trucks	1	4	0	0	5	0	0	0	0	0	0	15	0	0	15	0	0	4	0	4	24
% Trucks	1.1	1.2	0	0	1.2	0	0	0	0	0	0	2.7	0	0	2.6	0	0	1.8	0	1.6	1.9
Buses	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
% Buses	0	1.5	0	0	1.2	0	0	0	0	0	0	1.1	0	0	1.0	0	0	0	0	0	0.9

Traffic Count Data Report for Peak Period TMCs collected for the I-20 Mesoscopic Model

Firm name	GRAM Traffic Counting			Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Traffic Engineering IDIQ - US 71 Corridor – Phase I and Phase II Traffic Study**			Firm responsibility (prime or sub?)	Sub
Project number	H.010824	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Rapides Parish, LA			Owner's Project Manager	Jody Colvin
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 242 4635, jody.colvin@la.gov				
Services commenced by this firm (mm/yy)	03/14	Total consultant contract cost ($1,000's)			$228
Services completed by this firm (mm/yy)	04/15	Cost of consultant services provided by this firm ($1,000's)			$36

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

Firm's Role: GRAM Traffic Counting, Inc. was contracted as a subconsultant to Arcadis to conduct ***traffic data collection services*** for Phases I and II of the US 71 Corridor Study in Alexandria, LA.

Firm Members Involved: Vance Porfirio, Robert Nassour, Richard Porfirio, **Randall Smith**

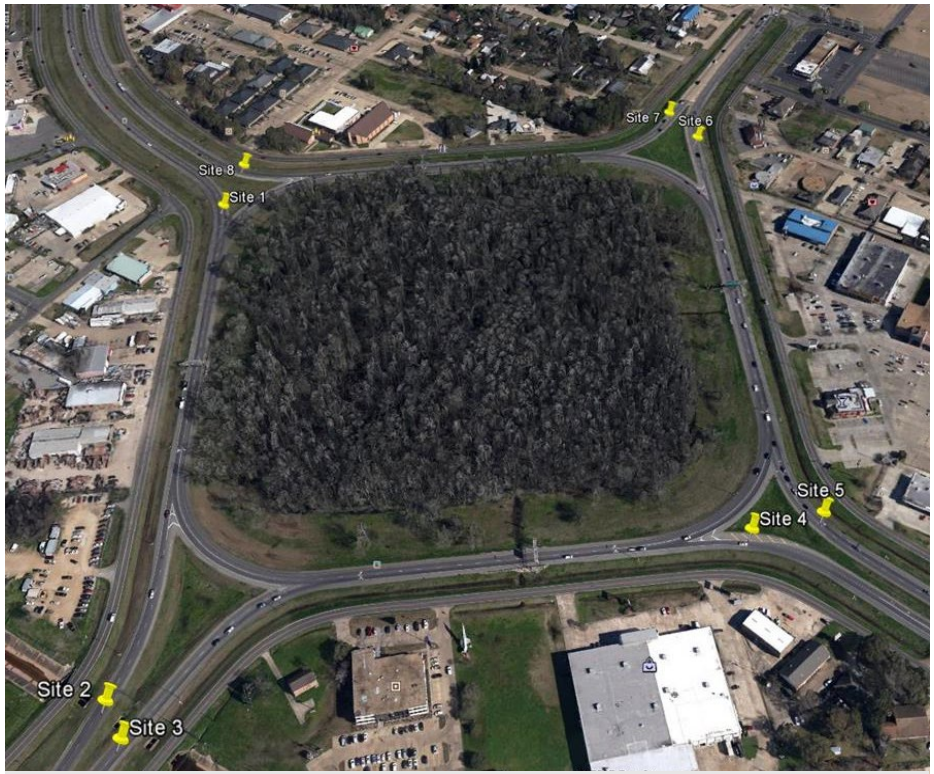
Responsibilities: GRAM was responsible for the following data collection tasks:

- ***7-day/24-hour vehicle classification tube counts*** on US Highway 71 and service roads
- ***Radar spot speed studies***
- ***24-hour vehicle tube counts*** at critical intersection approaches
- ***Peak period turning movement counts*** throughout the study area at key intersections and service road intersections
- Video license plate study (***Origin-Destination study***) matching vehicles by plate to the entrance and exit points to the South Circle by time
- Data collection performed in accordance with ***LADOTD Guidelines***

Relevant Services

- Traffic Data Collection
- Vehicle Classification Tube Counts
- Peak Period TMCs
- Radar Speed Studies
- Origin-Destination Studies
- Data Reports
- LADOTD Data Collection Guidelines

The project was divided into two phases with Phase I consisting of the section of US 71 from I-49 to the South Circle and Phase II focusing on the South Circle itself. The project corridor is located in the City of Alexandria.



Origin-Destination Study Sites to Determine Vehicle Routes

Firm name	GRAM Traffic Counting			Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Joe Severio / Roddy Road Corridor Traffic and Safety Study**			Firm responsibility (prime or sub?)	Sub
Project number	H010795.1	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Ascension Parish, LA			Owner's Project Manager	April Renard
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1919, april.renard@la.gov				
Services commenced by this firm (mm/yy)	04/14	Total consultant contract cost ($1,000's)			$369
Services completed by this firm (mm/yy)	04/14	Cost of consultant services provided by this firm ($1,000's)			$24

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

Firm's Role: GRAM Traffic Counting, Inc. was contracted as a subconsultant to Arcadis to conduct ***traffic data collection*** services for the traffic and safety study.

Firm Members Involved: Robert Nassour, Vance Porfirio, Richard Porfirio, **Randall Smith**

Responsibilities: GRAM was responsible for the following data collection tasks:

- ***7-day automated speed and vehicle classification tube counts*** at 9 locations
- ***48-Hour speed and vehiucle classification tube counts*** at 22 locations
- ***Peak period turning movement counts*** at 10 locations
- ***Radar speed studies*** at 31 locations
- Project scheduling and monitoring for timeliness of our performance
- Data collection performed in accordance with ***LADOTD Guidelines***

Relevant Services

- Traffic Data Collection
- Vehicle Classification Tube Counts
- Peak Period TMCs
- 15-Minute Driveway Counts
- Radar Speed Studies
- Data Reports
- LADOTD Data Collection Guidelines

GRAM Traffic Counting, Inc.
1506 Festival
Houston, Texas 77062
888-315-6141

File Name : 3 Roddy at LA 935 aka Bayou Narcisse AM
Site Code : 3
Start Date : 10/16/2014
Page No : 1

Groups Printed- Autos - Heavy vehicles

	Roddy Southbound					Bayou Narcisse Westbound					Roddy Northbound					Eastbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
06:00	0	22	5	0	27	15	35	1	0	51	3	17	4	0	24	1	5	3	1	10	112
06:15	1	29	2	0	32	15	25	1	0	41	7	10	3	0	20	0	11	6	0	17	110
06:30	3	46	8	0	57	14	22	0	0	36	10	17	0	0	27	2	6	13	0	21	141
06:45	7	66	13	0	86	18	28	1	0	47	4	15	4	0	23	1	8	10	0	19	175
Total	11	163	28	0	202	62	110	3	0	175	24	59	11	0	94	4	30	32	1	67	538
07:00	7	83	21	0	111	20	30	2	0	52	10	29	8	0	47	3	28	8	0	39	249
07:15	8	84	16	0	108	18	34	5	0	57	16	38	4	0	58	6	32	8	0	46	269
07:30	4	39	11	0	54	12	15	0	0	27	11	29	1	0	41	3	5	3	0	11	133
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	19	206	48	0	273	50	79	7	0	136	37	96	13	0	146	12	65	19	0	96	651
08:00	1	42	11	0	54	12	18	2	0	32	6	17	5	0	28	5	13	5	0	23	137
08:15	6	51	4	0	61	7	19	1	0	27	7	17	5	0	29	3	13	11	0	27	144
08:30	0	30	6	0	36	13	19	1	0	33	3	13	6	0	22	2	15	7	0	24	115
08:45	2	39	3	0	44	15	20	0	0	35	9	26	10	0	45	4	13	11	0	28	152
Total	9	162	24	0	195	47	76	4	0	127	25	73	26	0	124	14	54	34	0	102	548
Grand Total	39	531	100	0	670	159	265	14	0	438	86	228	50	0	364	30	149	85	1	265	1737
Apprch %	5.8	79.3	14.9	0		36.3	60.5	3.2	0		23.6	62.6	13.7	0		11.3	56.2	32.1	0.4		
Total %	2.2	30.6	5.8	0	38.6	9.2	15.3	0.8	0	25.2	5	13.1	2.9	0	21	1.7	8.6	4.9	0.1	15.3	
Autos	33	523	99	0	655	156	260	14	0	430	84	224	49	0	357	29	146	83	1	259	1701
% Autos	84.6	98.5	99	0	97.8	98.1	98.1	100	0	98.2	97.7	98.2	98	0	98.1	96.7	98	97.6	100	97.7	97.9
Heavy vehicles	6	8	1	0	15	3	5	0	0	8	2	4	1	0	7	1	3	2	0	6	36
% Heavy vehicles	15.4	1.5	1	0	2.2	1.9	1.9	0	0	1.8	2.3	1.8	2	0	1.9	3.3	2	2.4	0	2.3	2.1

	Roddy Southbound					Bayou Narcisse Westbound					Roddy Northbound					Eastbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:30																					
06:30	3	46	8	0	57	14	22	0	0	36	10	17	0	0	27	2	6	**13**	0	21	141
06:45	7	66	13	0	86	18	28	1	0	47	4	15	4	0	23	1	8	10	0	19	175
07:00	7	83	**21**	0	**111**	**20**	30	2	0	52	10	29	**8**	0	47	3	28	8	0	39	249
07:15	**8**	**84**	16	0	108	18	**34**	**5**	0	**57**	**16**	**38**	4	0	**58**	**6**	**32**	8	0	**46**	**269**
Total Volume	25	279	58	0	362	70	114	8	0	192	40	99	16	0	155	12	74	39	0	125	834
% App. Total	6.9	77.1	16	0		36.5	59.4	4.2	0		25.8	63.9	10.3	0		9.6	59.2	31.2	0		
PHF	.781	.830	.690	.000	.815	.875	.838	.400	.000	.842	.625	.651	.500	.000	.668	.500	.578	.750	.000	.679	.775

Example of Peak Period Intersection Turning Movement Count Data Report

Firm name	GRAM Traffic Counting			Past Performance Evaluation Discipline(s)*	Traffic
Project name	**LA 3235 Corridor Traffic and Safety Study**			Firm responsibility (prime or sub?)	Sub
Project number	H.010688.1	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Lafourche Parish, LA			Owner's Project Manager	April Renard
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1919, april.renard@la.gov				
Services commenced by this firm (mm/yy)	03/14	Total consultant contract cost ($1,000's)			$473
Services completed by this firm (mm/yy)	03/14	Cost of consultant services provided by this firm ($1,000's)			$20

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

Firm's Role: GRAM Traffic Counting, Inc. was contracted as a subconsultant to Arcadis to conduct ***extensive traffic data collection*** for a 16-mile-long segment of the LA 3235 corridor in Lafourche Parish, Louisiana.

Firm Members Involved: Vance Porfirio, Robert Nassour, Richard Porfirio, **Randall Smith**

Responsibilities: GRAM was responsible for the following data collection tasks:

- ***Peak period turning movement counts*** at five locations, including separately accounting for personal cars and heavy vehicles
- ***7-day/24-hour vehicle classification tube counts*** at seven locations
- ***15-min driveway counts*** at seventy minor median opens located along the corridor
- Generating reports in Excel and PDF
- Project scheduling and monitoring for timeliness of our performance
- Data collection performed in accordance with ***LADOTD Guidelines***

Relevant Services

- Traffic Data Collection
- Vehicle Classification Tube Counts
- Peak Period TMCs
- 15-Minute Driveway Counts
- Data Reports
- LADOTD Data Collection Guidelines

GRAM Traffic Counting, Inc.
1506 Festival
Houston, Texas 77062
888-315-6141

File Name : TMC 1 LA 24 at LA 3235 pm
Site Code : 1
Start Date : 2/18/2014
Page No : 1

Groups Printed- Autos - Heavy vehicles

	LA 24 Southbound					LA 3235 Westbound					LA 24 Northbound					LA 3235 Eastbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
15:30	28	13	0	0	41	39	0	20	0	59	0	12	48	0	60	0	0	0	0	0	160
15:45	21	11	0	0	32	68	1	30	0	99	0	12	58	0	70	0	0	0	0	0	201
Total	49	24	0	0	73	107	1	50	0	158	0	24	106	0	130	0	0	0	0	0	361
16:00	20	15	0	0	35	51	0	32	0	83	0	20	54	0	74	0	0	0	0	0	192
16:15	19	18	0	0	37	67	1	36	0	104	0	15	71	0	86	0	0	0	1	1	228
16:30	16	18	0	0	34	67	0	30	1	98	0	15	63	0	78	0	0	0	1	1	211
16:45	17	15	0	0	32	62	0	42	0	104	0	34	59	0	93	0	0	0	2	2	231
Total	72	66	0	0	138	247	1	140	1	389	0	84	247	0	331	0	0	0	4	4	862
17:00	28	24	0	0	52	87	1	55	0	143	0	41	100	0	141	0	0	0	0	0	336
17:15	7	7	0	0	14	84	0	52	0	136	0	37	72	0	109	0	0	0	1	1	260
17:30	31	15	0	0	46	50	0	52	0	102	0	21	69	0	90	0	0	0	1	1	239
17:45	20	13	0	0	33	50	0	36	0	86	0	13	52	0	65	0	0	0	0	0	184
Total	86	59	0	0	145	271	1	195	0	467	0	112	293	0	405	0	0	0	2	2	1019
18:00	19	12	0	0	31	43	0	18	0	61	0	12	53	0	65	0	0	0	0	0	157
18:15	15	5	0	0	20	45	1	25	0	71	0	10	38	0	48	0	0	0	0	0	139
Grand Total	241	166	0	0	407	713	4	428	1	1146	0	242	737	0	979	0	0	0	6	6	2538
Apprch %	59.2	40.8	0	0		62.2	0.3	37.3	0.1		0	24.7	75.3	0		0	0	0	100		
Total %	9.5	6.5	0	0	16	28.1	0.2	16.9	0	45.2	0	9.5	29	0	38.6	0	0	0	0.2	0.2	
Autos	236	165	0	0	401	644	4	425	1	1074	0	242	698	0	940	0	0	0	6	6	2421
% Autos	97.9	99.4	0	0	98.5	90.3	100	99.3	100	93.7	0	100	94.7	0	96	0	0	0	100	100	95.4
Heavy vehicles	5	1	0	0	6	69	0	3	0	72	0	0	39	0	39	0	0	0	0	0	117
% Heavy vehicles	2.1	0.6	0	0	1.5	9.7	0	0.7	0	6.3	0	0	5.3	0	4	0	0	0	0	0	4.6

Example of Peak Period Intersection Turning Movement Count Data Report

Section

18

OUR APPROACH IS BASED ON COMPREHENSIVE EXPERIENCE OF OUR LOCAL AND HIGHLY-QUALIFIED MULTI-DISCIPLINARY PEOPLE PERFORMING TO HIGHEST QUALITY STANDARDS ON DOTD TRAFFIC ENGINEERING AND SIGNAL DESIGN PROJECTS FOR MORE THAN 20 YEARS – PEOPLE PERFORMING ON PROJECTS (P3).

People

697 Combined Years of Staff Experience

20 Staff with DOTD's TEPR Training

Performance

Top Performance ratings:

Traffic (Traffic & Safety): **4.5/5**
Roadway: **3.9/5**

Projects

More than **50** Traffic Engineering Study and Signal Design Projects

The Arcadis Team

The successful completion of task orders under this IDIQ contract will require an experienced team of traffic engineers and support staff that are familiar with a wide range of traffic engineering and design applications. ***The Arcadis team has held the last two Traffic Engineering IDIQs with LADOTD and has successfully completed over 50 Traffic Engineering Studies and Signal Design Projects in Louisiana*** including intersection and corridor studies, warrant studies, Stage 0 studies, signal inventory and design projects, access management studies, interchange justification studies, ped / bike improvement projects, and National Environmental Policy Act (NEPA) studies.

Akhil Chauhan will be the Contract / Project Manager (PM) for the Arcadis Team, with over 20 years of experience in traffic engineering and transportation planning. Akhil will be supported by Task Order Managers, Ari Deitch and Kester Hollier, each with extensive experience delivering traffic engineering projects for LADOTD. Contract leadership will be supported by our multidisciplinary team of traffic, safety, roadway, environmental, and planning professionals to provide high quality deliverables and meaningful results on schedule.

The Arcadis team is supported by our expert subconsultants: ***ITS*** will provide support for traffic engineering studies and signal design services; ***Bonton Associates*** for traffic engineering and roadway design services, and ***GRAM Traffic*** and ***Southern Traffic Services*** for traffic data collection.

We have assembled a deep bench of firms (including two traffic count firms) and staff to provide sufficient redundancy and deliver multiple task orders in parallel without impacts to schedule or quality of deliverables.

Task Order Scoping

A comprehensive, clearly defined scope of work is imperative to the successful and timely completion of task orders. Upon receipt of an initial task order scope, the Arcadis PM will request a meeting with the LADOTD PM to discuss project background and goals. Preliminary desktop reviews of the project limits will be conducted to provide recommendations on specific data and scope elements. Putting in the extra effort into the scope development process ensures a mutual understanding of tasks and deliverables, minimizes scope revisions, and avoids the need for supplemental agreements.

Project Management

Upon receipt of Notice to Proceed, the Arcadis PM will request an initial meeting with the LADOTD PM and stakeholders to review project purpose and need, scope, study methodologies, communication protocols, schedule, QA/QC plan, risk management, and data needs. Arcadis will schedule monthly or bi-weekly meetings with the LADOTD PM to provide updates on the progress of task orders and will submit monthly progress reports showing schedule and percent completion. Our philosophy is that ***frequent communication is essential to meeting and exceeding client expectations and delivering projects on schedule***. Milestone meetings will be held following the submittal of key project deliverables to discuss comments and at critical decision points of the project.

Traffic Engineering

Arcadis' approach to traffic engineering embraces the ideas and philosophies enumerated in the Traffic Engineering Process and Report. ***The Arcadis Team is intimately familiar with TEPR guidelines and requirements*** through our experience on previous Traffic Engineering IDIQs as well as safety, Stage 0, environmental and roadway/bridge design projects. Traffic engineering study and design task orders will be conducted in accordance with applicable State and Federal guidelines including but not limited to TEPR, LADOTD Traffic Engineering Manual, Traffic Signal Manual, Engineering Directives and Standards Manual (EDSM), Standard Plans / Special Details, Manual on Uniform Traffic Control Devices (MUTCD), Highway Capacity Manual (HCM), Highway Safety Manual (HSM), American Association of State Highway and Transportation Officials (AASHTO) Manuals, Institute of Transportation Engineers (ITE) Manuals, and National Cooperative Highway Research Program (NCHRP) Reports.

Warrant Analysis

Warrant analysis will be performed in accordance with EDSM VI.1.1.2 (Intersection Control Evaluation), which defines specific requirements for any project that seeks to justify traffic control types at an intersection. Arcadis will coordinate with LADOTD to ensure that the necessary data is collected to effectively perform warrant analysis and associated traffic studies.

Warrant analysis is frequently performed to determine the basis for the removal or installation of a traffic signal. In addition to performing MUTCD Signal Warrants, additional study and consideration must be given to alternatives to signalized intersections such as restricted intersections, roundabouts and other ***innovative solutions that can accommodate traffic demand in a safe and effective manner without the need for a traffic signal.*** Warrant analysis may also be performed to determine the need for pedestrian accommodations such as controlled and un-controlled marked crosswalks, midblock crosswalks, and signalized pedestrian crosswalks. Such analysis and specialized data collection will be performed in accordance with Section 3B.2 of the Traffic Engineering Manual.

Traffic Modeling

The Arcadis team is highly experienced with a wide range of traffic modeling tools including Highway Capacity Software (HCS), Sidra, Synchro / SimTraffic, Vissim, Dynameq, and TransCAD.

Deterministic Modeling (HCS / Synchro) - HCS is the primary software used for HCM (6th Edition) based analysis, which is closed-form and not iterative. For projects utilizing HCS, a multi-period analysis will be performed to evaluate each 15-minute interval within approved peak periods. HCS models will be developed based on traffic volume / classification data, field verified network geometry and observations, and traffic signal inventory. Initial results will be compared to peak period field observations and queues to ***ensure that model results accurately replicate field conditions***. Model parameters may need to be adjusted in instances where model results do not match field conditions. Modifications to input parameters will be discussed with LADOTD and documented. Once approved, HCS models will be used to evaluate the operational performance of existing and future year scenarios.

The modeling of roundabouts will be performed using Sidra software, in accordance with LADOTD Sidra Parameters and Required Settings.

Microscopic Simulation Modeling (Vissim/ SimTraffic) – Microsimulation modeling using Vissim may be required for scenarios that cannot be addressed using HCM's deterministic methods. The development and calibration of microsimulation models will be conducted in accordance with TEPR guidelines including LADOTD's Vissim calibration parameters, calibration criteria, milestone submittals and meetings, checklists, and calibration documentation. In addition to the traffic and roadway data required for HCM modeling, microscopic modeling requires additional data such as travel times, origin-destination (O-D) data, speed data, and detailed observations of operational characteristics to effectively develop and calibrate the model.

Mesoscopic Simulation Modeling (Dynameq) – Mesoscopic models are typically used to determine the impacts of large-scale projects or construction sequences on the broader transportation network. ***The Arcadis Team developed and calibrated the first mesoscopic models in Louisiana using Dynameq***. With this experience, our team is capable of developing and updating mesoscopic models for traffic analysis, volume projections, and developing work zone strategies to mitigate the impacts of construction sequencing. For tasks utilizing existing models, roadway modifications will be coded and dynamic traffic assignment (DTA) will be performed. Results will be extracted to determine impacts to the transportation network such as changes to travel patterns, travel times, queues, and delay. For new mesoscopic model development, a rigorous process involving extensive traffic data collection, subarea network extraction from the regional MPO model, validation and error checking, O-D matrix refinement, and calibration will be required prior to performing network analysis.

Data Collection / Aerial Photography with Field Verification

Arcadis will coordinate with LADOTD during project scoping to identify all data that will be necessary to complete tasks and deliverables for each task order. Typical task orders will require traffic volume and characteristic data, aerial photography, geometric field checks, traffic signal inventory, land-use, planned projects/developments, MPO models, as-built plans, historical crash data, information on existing utilities, bus stops, railroad crossing schedules, etc. Additionally, our team is prepared to assist LADOTD with the development of traffic engineering policies, standards and manuals through data collection and extensive experience in all aspects of the traffic engineering field.

Intersection / Corridor / Network Analysis

Traffic studies and analysis will be performed in accordance with TEPR guidelines and applicable state and federal guidelines listed previously.

Study Methodology - Proposed methodology for complex study tasks such as traffic modeling, estimating unmet demand, projecting future conditions, and alternative screening will be presented and discussed in detail at the project kick-off meeting to obtain concurrence from the LADOTD Traffic Engineering Section. ***Arcadis' proactive approach will aid in mitigating common causes of delay with traffic studies and will streamline analysis tasks and reviews.***

Traffic Data Collection - Arcadis will identify and gather all traffic data necessary to establish the existing conditions of the study area and project and analyze future conditions. Arcadis will work closely with our traffic data subconsultants to ensure strict adherence to TEPR requirements for Initial and Final Data Collection.

Existing / No-Build Network Analysis - Will be conducted using an approved modeling software. Our team is experienced with HCM methods and analysis software (HCS, Sidra, Synchro), microsimulation analysis (Vissim) to model more complex operational conditions, and mesoscopic simulation analysis (Dynameq) to model and evaluate impacts to a broader transportation network.

Safety - The project team will compile and analyze crash data from the latest three-to-five LADOTD-approved years. Available traffic (vehicular, transit, and pedestrian/bicycle) data, crash data, and field data will be used to identify safety-related issues. The Arcadis Team is highly experienced with ***HSM Methods*** and network screening tools such as CAT Scan to identify historical crash patterns and Level of Safety Service (LOSS). ***Arcadis develops custom, interactive safety***

dashboards to provide meaningful statistics in a graphical format, which can be used to highlight conditions that need to be improved for a given location.

Tier 1 Analysis - Following the completion of existing and no-build analysis and identification of project needs, screening criteria for Tier 1 Alternative Analysis will be established with input from traffic, safety, roadway, bridge, environmental, and planning disciplines. ***Screening criteria are developed based on unique needs and design constraints for each project***. Proposed screening criteria will be presented to LADOTD during the existing and no-build results meeting and will be submitted for approval before conducting Tier 1 Analysis. The Tier 1 Analysis will utilize high level analysis tools such as CAP-X and ICE to evaluate the operational and safety performance of potential alternatives.

Tier 2 Analysis - Involves a more in-depth evaluation of selected alternatives to quantify project benefits and impacts in more detail. A geometric layout of alternatives will be developed to determine right-of-way and environmental impacts and provide a basis for construction cost estimates. Operational benefits will be evaluated using measures of effectiveness (MOEs) such as delay, volume/capacity (v/c), queue length, travel time, density, duration of congestion, etc. Safety benefits will typically be quantified by estimating a percent reduction in crashes that would no longer be probable under a proposed alternative. The safety performance of proposed alternatives may also be quantified using applicable Crash Modification Factors (CMFs), HSM Predictive Methods and tools such as IHSDM. Safety benefits may also be monetized using state specific values for crash severities to develop benefit-cost ratios as a comparative analysis tool.

Tier 3 (if applicable) – Includes the development of detailed geometric design drawings (line and grade), interstate signing layouts, and FHWA policy points required for Interchange Justification (New Access or Modification) Reports. ***The Arcadis Team has developed several IJRs for LADOTD and is familiar with FHWA requirements and review / approval processes.***

All study data, methodologies, and results will be documented in TEPR format.

Traffic Signal Design and Inventory

Traffic Signal Design - Traffic signal plans will be developed using the latest LADOTD Traffic Signal Inventory format, in accordance with LADOTD Traffic Signal Details, Traffic Signal Manual, Traffic Engineering Manual, MUTCD, and applicable EDSMs.

Prior to initiating signal plan development, The Arcadis Team will perform Traffic Signal Inventory and field inspection of signal locations to ***verify site conditions and identify potential design constraints***. As-built plans and utility information will also be requested and documented.

Submittal stages will typically include 98% Preliminary Plans, and 60%, 95%, and 100% Final Plans. A plan in hand meeting will be requested after the submittal of preliminary plans to review the constructability of signal pole and equipment locations. ***Pole locations will be strategically located to avoid the need for special foundation designs*** where possible. Pedestrian signal equipment will be designed to meet MUTCD requirements for Accessible Pedestrian Signals.

The Arcadis Team is experienced in the design and implementation of ***Adaptive Signal Control Technologies*** and will coordinate with LADOTD to determine the need for such systems for specific locations. The Arcadis Team will coordinate with LADOTD and District Staff to determine appropriate vehicle detection types to support the desired actuation type and signal performance measures.

Traffic Signal Inventory - Final Traffic Signal Inventory will be developed based on proposed plans and will contain the signal equipment and detection layout, phasing and sequencing, timing parameters, clearance intervals, time of day plans, preemption plans, interconnect plans, and traffic volumes.

Stage 0

The project purpose and need statement, study methodology, list of alternatives considered, and results from the alternatives analysis and TEPR compliant study may be documented in a Stage 0 Feasibility Report. The report will provide the basis and background for the responses recorded on the preliminary scope and budget checklist and environmental checklist, compliant with DOTD's Stage 0 Manual. The report will provide a ***sound record of the alternatives analysis so the concepts developed can progress through latter stages of the LADOTD project delivery process.***

Support Services

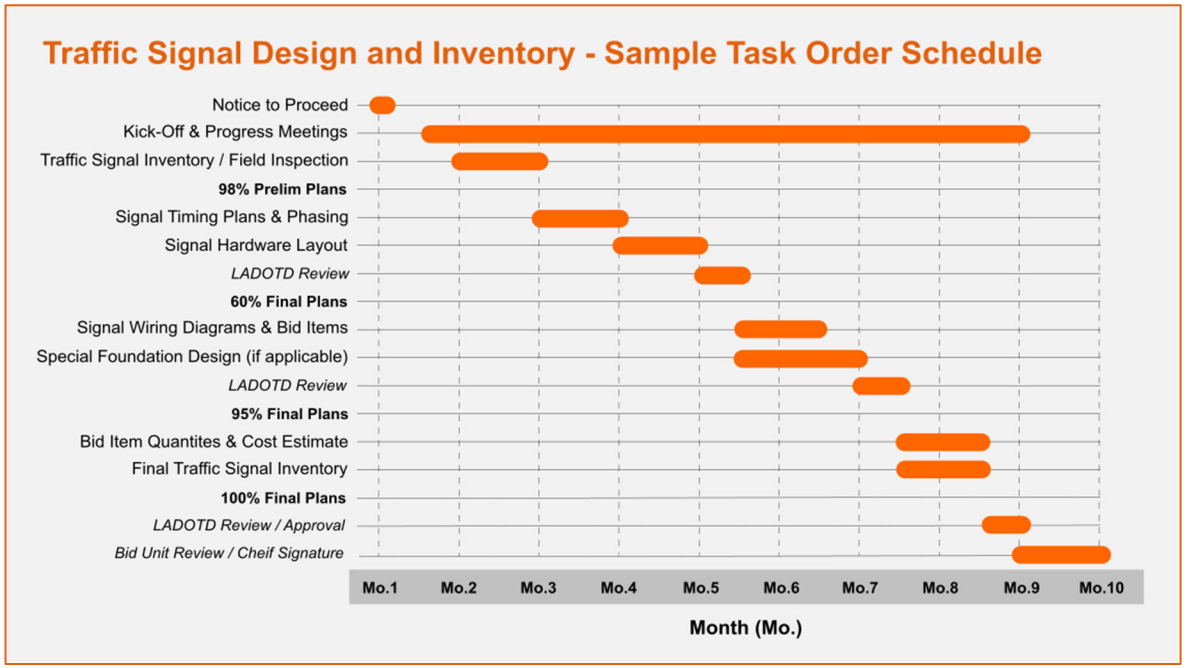
Roadway - Arcadis and its subconsultant Bonton Associates will conduct preliminary roadway design services in support of task orders to evaluate the feasibility and impacts of alternatives. The design team will work in conjunction with traffic, safety, environmental, and planning to develop the most suitable engineering solutions for the project that minimize impacts to environmental resources and offer solutions that consider the communities they serve and affect. Design criteria will be determined based on LADOTD design guidelines and a systematic evaluation of existing site data, traffic data, as-built plans, and previous engineering reports. ***Alternative concepts will contain enough detail to provide a rational method for evaluating and comparing the technical design characteristics, environmental, and monetary aspects of each alternative.***

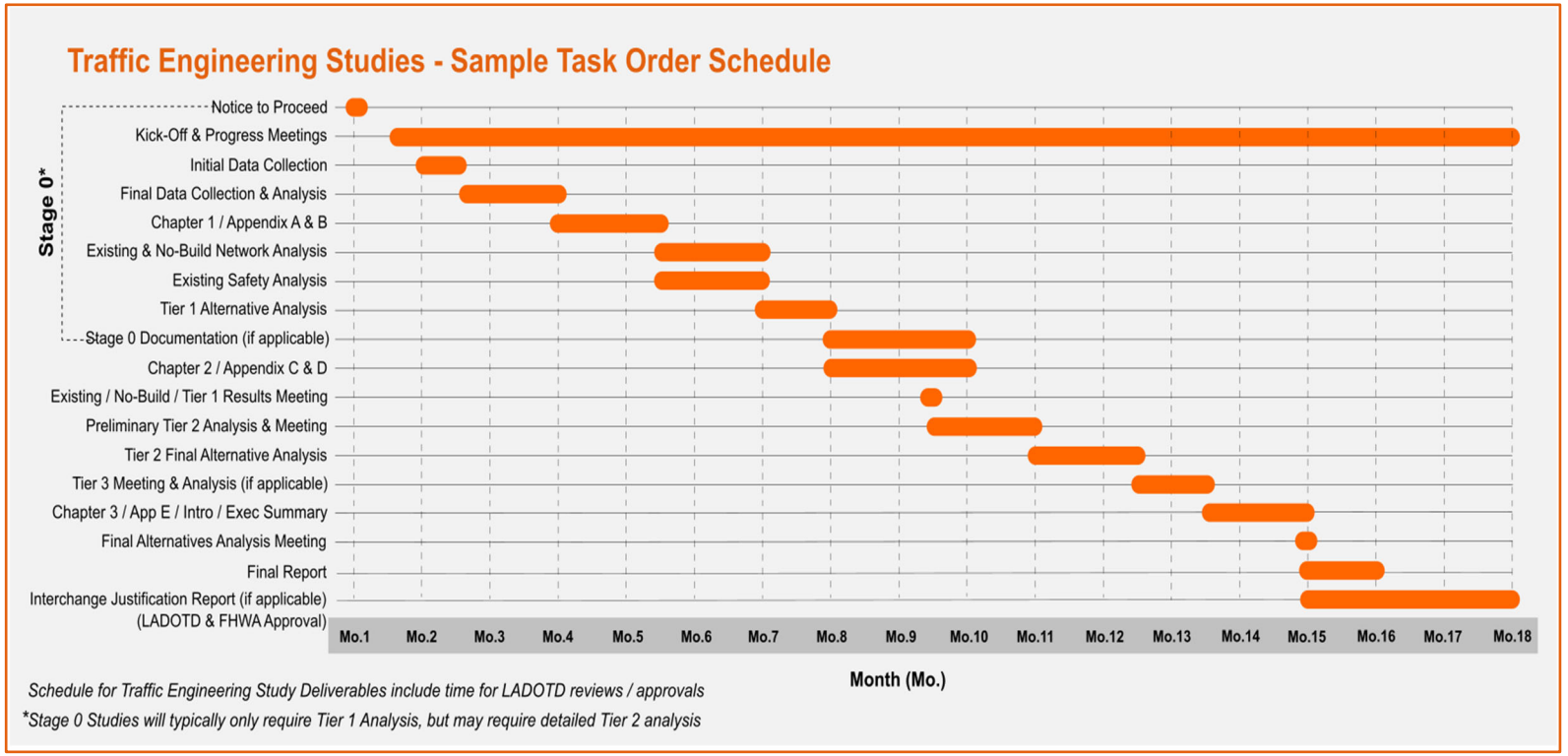
Environmental - Using available desktop data our environmental experts will conduct an environmental inventory to identify existing conditions and resources as part of the environmental clearance process. Resources may include migratory birds, cultural resources, wetlands and other waters, flood zones, underground storage tanks and hazardous materials sites, community elements, Section 4(f) issues, threatened and endangered species, critical habitat, and coastal resources. Environmental findings will be used in alternatives analysis to screen for and evaluate the impacts of reasonable alternatives.

Schedule

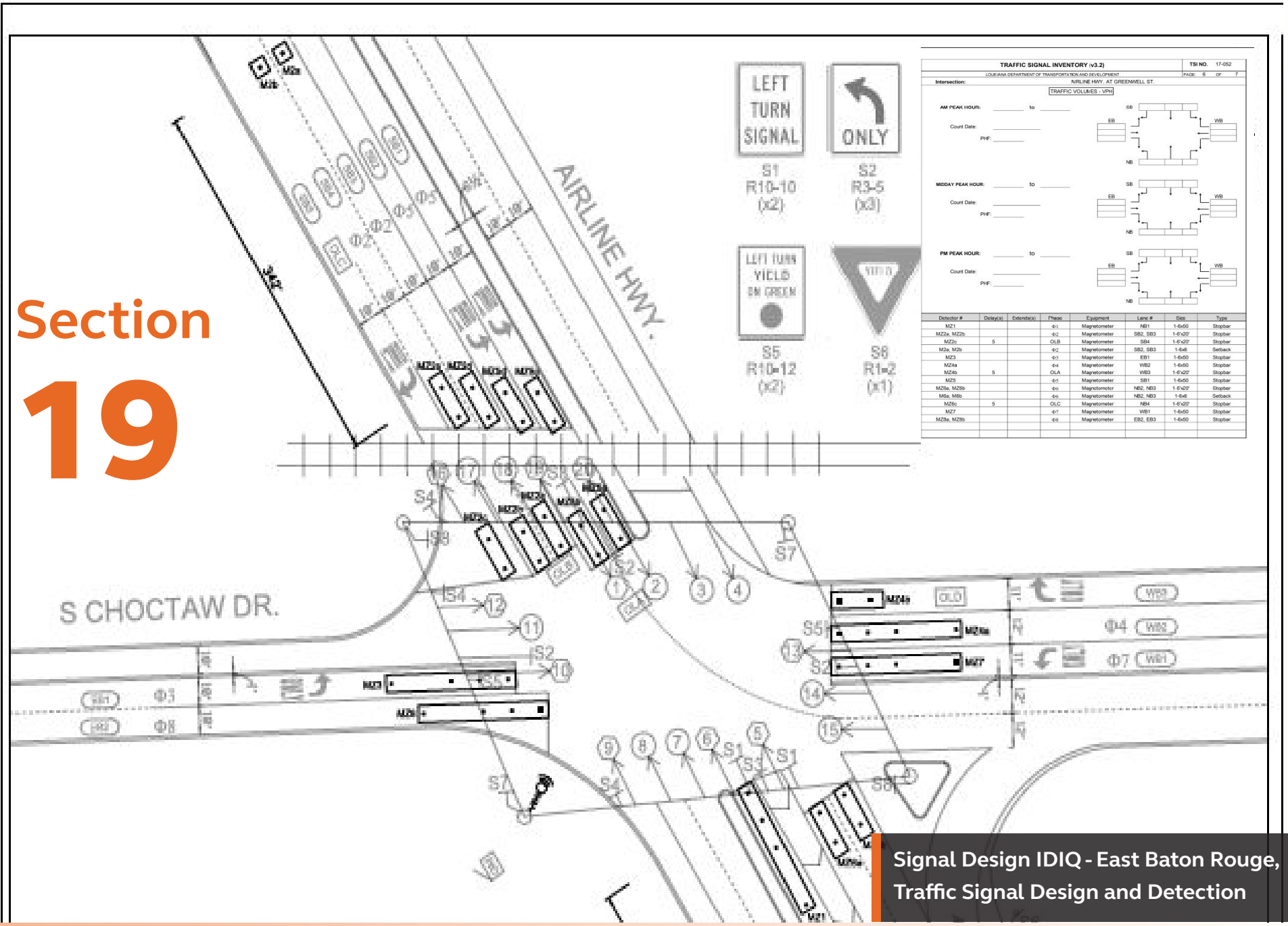
We anticipate that task orders will typically include traffic engineering studies (modeling, intersection, corridor, network analysis, and warrant analysis) and Traffic Signal Design / Inventory. The duration of traffic studies may range from 9 to 18 months depending on the scope and scale of the project, while the duration of signal design and inventory projects may range from 6 to 12 months depending on the number of signal locations.

A comprehensive, clearly defined scope of work and use of effective communication protocols as detailed in this proposal will be imperative to the ***timely completion of task orders***. Responses to review comments will be submitted in a timely manner (within 1 week). Meetings will be held with LADOTD as appropriate to discuss comments and ensure a mutual understanding of how comments will be addressed. This has proven to be an effective approach in minimizing back-and-forth on submittals and ***avoiding project delays***.





Section 19



12/19/19

ANS

Signal Design IDIQ - East Baton Rouge, Traffic Signal Design and Detection

19. Workload:

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
Arcadis	Traffic	H.011328.2	I-49 South (Ricohoc to Berwick)	$172,040
		H.012889.5	I-20 Rehab (Pines Road to I-220)	$80,568
		H.003370	I-220/I-20 Interchange IMP & BAFP Access Design Build	$15,000
		H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$393,865
		H.005121	LA 1/LA 415 Connector	$105,842
		H.972419.1	SHSP Update and Regional SHSP Marketing/Advertising Support	$6,957
		H.013797	LA 30: EBR PL – I-10	$442,095
		H.000413	Cross Bayou Bridge Replacement	$141,425
	ITS	H.013868.5	ITS Program Management and Operations (2022)	$351,919
		H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2022)	$455,163
		H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I) (2022)	$114,131
		H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$152,463
	Road	H.011328.2	I-49 South (Ricohoc to Berwick)	$344,080
		H.010116.5	LA 1088: Soult and Trinity Roundabouts	$83,268
	Bridge	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	$724,203
		H.000413	Cross Bayou Bridge Replacement	$169,582
	CE&I/OV	H.011220.6-1	I-10 CBD2 Carrollton-Lafitte Ave and Supplement Nos. 1 & 2	$199,049
		H.013710.6	I-10: US 61 to Laplace ITS Deployment	$399,803
		H.012018.6	Adaptive Traffic Signal Design and Implementation	$31,594
		H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	$305,229
	Environmental	H.002397.2	LA 16 (Pete's Hwy) Interstate 12 Interchange Route	$20,109
		H.011328.2	I-49 South (Ricohoc to Berwick)	$807,263
		H.009932	US 80 Widening: Vancil Road to Well Road Environmental Assessment	$5,343
		4400019338	Rural Bridge Replacement Initiative Phase II – Multiple State Project Numbers – Districts 02, 03 ,07, 61, and 62	$203,195

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
ITS, LLC	ITS	H.013256.6	I-10 ITS Scott to Lake Charles - Construction	$14,345
		H.014515	511 & ATMS SEA	$13,360
		H.013710.6	I-10: US61 to LaPlace Deployment	$20,284
		H.011152	I-12- US 190 to LA 59	$49,382
		H.007160	EBR Computerized Signal Phase VB	$104,086
		H.001234.6	LA1 Port Allen Canal BR Replacement	$14,291
		H.013868.6(A)	ITS Routine Maintenance Engineering and Inspection (ME&I)	$339,316
		H.013868.6 (B)	ITS Responsive/Emergency ME&I Statewide	$108,114
		H.013868.5	ITS Maintenance Program Management and Operations	$46,941
		H.011504	Alexandria Phase 2	$109,668
		H.012676	I-10 Ramps at LA 3019 Interstate Improvements	$4,970

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
Bonton Associates	Road	H.010652.5	LA 73: US 61 (Airline) – Essen Lane	$815
		H.010116.5	LA 1088: Soult and Trinity Roundabouts	$41,605
		H.013429	Downtown Thibodaux Sidewalks	$101,294

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
GRAM	N/A	N/A	N/A	N/A

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
STS / Rekor	N/A	N/A	N/A	N/A

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ARCADIS

Sections 20-23

"Arcadis has submitted completed negotiated man-hour sheet in a timely manner. The consultant has been overly prepared for kickoff and all intermediate meetings while providing documentation for all decisions made. Arcadis has completed all required data collection and analysis in a timely and organized manner. All analyses submittals have been clear and easy to read/understand with all assumptions stated. Any concerns/comments DOTD may have had were efficiently addressed. Arcadis has provided alternatives that are constructible and make sense. The consultant came over prepared for the Stakeholder and Public Meeting. The presentation boards, conceptual alternative layouts, and VISSIM video for the public meeting expertly explained all of the essential points of the study clearly and effectively."

- *Czarina Patolilic,* LADOTD Project Manager, LA 157 Corridor Traffic Study

Traffic Engineering IDIQ - LA 157 Corridor Traffic Study

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

STAFF CERTIFICATION CHART SUMMARY	
Names	**Relevant Certification**
Arcadis Staff	
Akhil Chauhan, PE, PTOE, PTP, PMP	Professional Engineer – LA / PE.0033703 / Exp. 09/2024 Professional Traffic Operations Engineer – #2544 / Exp. 11/2023 Professional Transportation Planner – #246 / Exp. 12/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 NHI Course No. 142005 – NEPA and Transportation Decision Making NHI Course No. 380075 – New Approaches to Highway Safety Analysis NHI Course No. 133121 – Traffic Signal Design and Operation FHWA – NHI Course No. 380071 – Interactive Highway Safety Design Model (IHSDM) FHWA – NHI Course No. 133078 – Access Management, Location and Design Highway Capacity Manual 2010 Workshop Highway Capacity Analysis – Data Defaults Calibration Dynameq – Introduction to Dynameq Roundabout Design Workshop Roundabout Analysis Workshop – SIDRA Intersection 6 Introduction to Travel Forecasting
Ari Deitch, PE, PTOE, PTP, RSP	Professional Engineer – LA / PE.0041842 / Exp. 03/2024 Professional Traffic Operations Engineer – #4346 / Exp. 11/2023 Professional Transportation Planner - #690 / Exp. 07/2025 Road Safety Professional – 37 / Exp. 12/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 NHI Course No. 133121 – Traffic Signal Design and Operation PTV Vissim Introduction Highway Safety Manual Workshop Dynameq – Introduction to Dynameq
Kester Hollier, PE, PTOE	Professional Engineer – LA / PE.0 034304 / Exp. 03/2023 Professional Traffic Operations Engineer – #3928 / Exp. 11/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Thomas Montz, PE, PTOE, PTP	Professional Engineer – LA / PE.0039128 / Exp. 09/2024 Professional Traffic Operations Engineer – #4093 / Exp. 07/2025 Professional Transportation Planner – #599 / Exp. 12/2023 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 FHWA-NHI-133078 – Access Management, Location and Design Trafficware – Traffic Controller (Naztec TS1 & TS2) and Streetwise Training Course

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

STAFF CERTIFICATION CHART SUMMARY	
Names	**Relevant Certification**
	Designing Streets for Pedestrians & Bicyclists Highway Capacity Analysis Training Roundabout Design Workshop Roundabout Analysis Workshop – SIDRA Intersection 6 PTV Vissim Advanced Dynameq – DTA Modelling ATSSA Traffic Control Technician – LA / Exp 07/2023 ATSSA Traffic Control Supervisor – LA / Exp 07/2023
Marwan Abboud, PE	Professional Engineer – LA / PE.0034657 / Exp. 09/2023
Skyler Waaso, PE, PTOE	Professional Engineer – LA PE.0039070 / Exp. 09/2024 Professional Traffic Operations Engineer #4600 / Exp. 03/2025 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Sridhar Basetty, PE, PTOE, PTP	Professional Engineer – LA / PE.0039070 / Exp. 09/2024 Professional Traffic Operations Engineer - #4600 / Exp. 03/2025 Professional Transportation Planner - #526 / Exp. 07/2025
Jose M. Rodriguez, RSP	Road Safety Professional #1– 160 / Exp. 12/2025 Road Safety Professional #2 – 12 / Exp. 12/2022 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 CMF Clearing House – Seeing the Value Using CMFs Calculate the Benefits of Safety Improvements
Justin Maderia, PE, PTOE, PTP	Professional Engineer – LA / PE.0038492 / Exp. 03/2024 Professional Traffic Operations Engineer – #4029/ Exp. 3/2024 Road Safety Professional – 224 / Exp. 12/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Jonathan Reid, PE, PTOE, RSP	Road Safety Professional - # 104 / Exp.12/2021 Professional Traffic Operations Engineer – #1588 / Exp. 03/2023
Jody Peace, PE, PTOE, RSP	Professional Traffic Operations Engineer – #4029/ Exp. 3/2024 Road Safety Professional – 224 / Exp. 12/2024
Tony Moore, PE, IMSA II	Traffic Engineering Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor Refresher / Exp. 01/2026
Max Aguirre, PhD, PE, PTOE, RSP	Road Safety Professional – #636 / Exp. 08/2024 Professional Traffic Operations Engineering – #5291 / Exp. 07/2025 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Technician – LA / Exp. 09/25

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

STAFF CERTIFICATION CHART SUMMARY	
Names	**Relevant Certification**
	ATSSA Traffic Control Supervisor – LA / Exp. 09/25
Kwaku Boakye, PE, PTOE, RSP	Professional Traffic Operations Engineer – #5136 / Exp. 11/2024 Road Safety Professional – 579 / Exp. 04/2024
Meredith Guidry, EI, RSP	Road Safety Professional – 861 / Exp. 07/2025 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Shafia Nazneen	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Julie Price, AICP	AICP #176869 / USA / Exp. 03/2024
Thomas Brown, RLA, ASLA	Registered Landscape Architect #1707 / Georgia / Exp. 12/2022
Jason Morrell, PWS	Professional Wetland Scientist – #2319 / NA / Exp. 04/23 FHWA-NHI Course 142005 NEPA and the Decision-making Process Traffic Engineering Process & Report Modules 1, 2, & 3
Jayun Thibodeaux, PWS	Professional Wetland Scientist - #3565 / NA / Exp. 04/27
Jose L. Rodriguez, PE	Professional Engineer – LA / PE.0030492 / Exp. 03/2023 ATSSA Certified Flagger – LA / Exp. 10/2023 ATSSA Traffic Control Supervisor Refresher – LA / Exp. 10/2023
David Fulks, PE	Professional Engineer – LA / PE0030151 / Exp. 09/2024 Highway Safety Manual Workshop Roundabout Design Workshop
Jeff Jones, IMSA II	IMSA I – AA_112604 / Exp. 08/2024 IMSA II – BE_112604 / Exp. 08/2024 ATSSA Traffic Control Supervisor Refresher – LA / Exp. 06/2023 ATSSA Registered Flagger – LA / Exp. 08/2024
Tony Jackson, IMSA III	IMSA III – Traffic Signal Senior Field Tech – CE_117627 / Exp. 01/2025 IMSA Traffic Signal Inspector for Advanced Technologies – AT_117627 / Exp. 01/2025 ATSSA Traffic Control Supervisor Refresher – LA / Exp. 01/2026 FHWA – NHI – 133121 Traffic Signal Design & Operation
ITS Staff	
Kimberly McDaniel, PE, PTOE, PTP	Professional Engineer – LA / PE.032973 / Exp. 09/2023 Professional Traffic Operations Engineer - #2072 / Exp. 10/2025 Project Transportation Planner- #802 / Exp. 03/2025 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Diane Hammonds, PE, PTOE, RSP	Professional Engineer – LA / PE.040749 / Exp. 09/2024 Professional Traffic Operations Engineer – #7113 / Exp. 12/2022

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

STAFF CERTIFICATION CHART SUMMARY	
Names	**Relevant Certification**
	Road Safety Professional – 798 / Exp. 03/2025 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor – LA / Exp. 04/2024
Jonathan Fox, PE, PTOE, PMP	Professional Engineer – LA / PE.033277 / Exp. 09/2023 Professional Traffic Operations Engineer - #2329 / Exp. 11/2025 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor Refresher – Exp. 01/2026
Clarke Chauvin, PE, PTOE, IMSA II	Professional Engineer – LA / PE.0041770 / Exp. 09/30 Professional Traffic Operations Engineer - # 4337 / Exp. 11/2023 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 IMSA # BE_125780 / Exp. 09/2025 (Traffic Signal Field Technician II) IMSA # SI_125780 / Exp. 08/2025 (Traffic Signal Inspector) ATSSA Traffic Control Supervisor Refresher – LA / Exp. 01/2026
Colin Francis, EI	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Bonton Associates Staff	
Ladarien Beene, PE, PTOE	Professional Engineer – LA / PE.45333 / Exp. 09/2023 Professional Traffic Operations Engineer - #5062 / Exp. 08/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Technician – LA / Exp. 04/2028 ATSSA Traffic Control Supervisor – LA / Exp. 04/2028
Marcus Bonton, PE	Professional Engineer – LA / PE. 40389 / Exp. 09/2024 ATSSA Traffic Control Supervisor Refresher – LA / Exp. 04/2026 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Akhilendra Singh Chauhan

License/Certificate Type - Number: PE.0033703

Expiration Date: 09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board Inc.

certifies that

Akhilendra Singh Chauhan

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Unless withdrawn by the Certification Board, this certificate number 2544 issued in Washington, D.C. is subject to the provisions for renewal

November 24, 2008

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director

Project Management Institute

THIS IS TO CERTIFY THAT

Akhilendra S Chauhan

HAS BEEN FORMALLY EVALUATED FOR DEMONSTRATED EXPERIENCE, KNOWLEDGE AND SKILLS TO LEAD AND DIRECT PROJECT TEAMS AND IS HEREBY BESTOWED THE GLOBAL CREDENTIAL

Project Management Professional

IN TESTIMONY WHEREOF, WE HAVE SUBSCRIBED OUR SIGNATURES UNDER THE SEAL OF THE INSTITUTE.

Beth Parleton · Chair, Board of Directors

Mark A. Langley · President and Chief Executive Officer

PROJECT MANAGEMENT INSTITUTE CORPORATE SEAL 1969 PENNSYLVANIA

PMP® Number **1444676**

PMP® Original Grant Date **16 August 2011**

PMP® Expiration Date **15 August 2014**

PMI Project Management Institute

Transportation Professional Certification Board Inc.

certifies that

Akhilendra Singh Chauhan

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

PROFESSIONAL TRANSPORTATION PLANNER

Unless withdrawn by the Certification Board, this certificate number 246 issued in Washington, D.C. is subject to the provisions for renewal

December 1, 2009

Steven D. Hofener
Chair

PTP
PROFESSIONAL TRANSPORTATION PLANNER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director

Certificate of Completion

presented to

Akhil Chauhan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Akhil Chauhan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Akhil Chauhan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Akhil Chauhan

has participated in

NHI Course No. 142005 -
NEPA and Transportation Decision Making

hosted by

LA DOTD/LTRC

Date: **May 28-30, 2014**

Hours of Instruction: **18**

Location: **Baton Rouge, LA**

Instructor

Instructor

Allison H. Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Akhilendra Chauhan

has participated in

NHI Course No. 380075 –
New Approaches to Highway Safety Analysis

hosted by

LA DOTD/LTRC

Date: **October 9-11, 2012**

Hours of Instruction: **18**

Location: **Baton Rouge, LA**

Maurice Maschal
Instructor

Tom Goss
Instructor

Allison H. Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

AKHIL CHAUHAN

has participated in

FHWA-NHI-133121 Traffic Signal Design and Operation

hosted by

LA DOTD/LTRC

Date: *August 16-17, 2017*

Location: *Baton Rouge, LA*

Hours of Instruction: 11

Instructor

Instructor

Allison H. Landry
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Akhil Chauhan

has participated in

FHWA - NHI Course No. 380071 - Interactive Highway Safety Design Model (IHSDM)

hosted by

Louisiana Department of Transportation and Development

Date: **May 9-10, 2012**

Hours of Instruction: **12**

Location: **Baton Rouge, LA**

Michael Damiata
Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Akhil Chauhan

has participated in

FHWA - NHI Course No. 133078
Access Management, Location and Design (3 day)

hosted by

LA DOTD/LTRC

Date: **January 6-8, 2015**

Hours of Instruction: **18**

Location: **Baton Rouge, LA**

Instructor

Instructor

Allison H. Landry

Local Coordinator

Valerie Briggs

Valerie Briggs, Director
National Highway Institute

McTrans
Moving Technology™

This certifies that

Akhil Chauhan

Attended and successfully completed the following training

HCM 2010 Workshop

Conducted in Baton Rouge, LA on May 22, 2012

6 PDHs

Bill Sampson

Bill Sampson, Instructor
University of Florida

McTrans
Moving Technology™

This certifies that

Akhil Chauhan

Attended the following training on

Highway Capacity Analysis

Data Defaults Calibration

Conducted on February 4, 2020

6 PDHs

Bill Sampson, Instructor
University of Florida

Prime Firm Name: Arcadis

Dynameq

Certificate of Attendance

This is to certify that

Akhil Chauhan

has attended

Introduction to Dynameq

held July 11, 2018
in Baton Rouge, Louisiana

Signed at Baton Rouge, this 11th day of July, 2018

Michael Mahut, instructor

INRO The Evolution of Transport Planning
345 Victoria Avenue, Suite 200
Westmount, Montreal, Québec, Canada
H3Z 2N2
www.inrosoftware.com

NE ROUNDABOUTS

CERTIFICATE OF COURSE COMPLETION

This certifies that ***Akhil Chauhan*** has completed

ROUNDABOUT DESIGN WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 10th & 11th, 2013

Howard McCulloch

Howard McCulloch, P.E., NE ROUNDABOUTS

NE ROUNDABOUTS

CERTIFICATE OF COURSE COMPLETION

This certifies that ***Akhilendra Chauhan*** has completed

SIDRA INTERSECTION 6
ROUNDABOUT ANALYSIS WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 12th & 13th, 2013

Howard McCulloch

Howard McCulloch, NE ROUNDABOUTS

Course: ***Introduction to Travel Forecasting***

Offered by: ***FHWA Resource Center***

Date: ***April 26, 2011***

Contact Hours: ***7***

Student: ***Akhil Chauhan***

Instructors: ***Eric Pihl and Jeff Frkonja, FHWA Resource Center***

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

Mr. Ari J. Deitch

License/Certificate Type - Number	Expiration Date
PE.0041842	03/31/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4346 issued in Washington, DC, USA

11/20/17

Michael K. Park
Chair

PTOE
PROFESSIONAL
TRAFFIC
OPERATIONS
ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

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

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 690 issued in Washington, DC, USA

07/17/2019

Diane M. Morabito
Diane Morabito
Chair

PTP
PROFESSIONAL TRANSPORTATION PLANNER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Ari Jacob Deitch

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 37 issued in Washington, DC, USA

12/21/2018

Diane W. Morabito
Chair

ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

ARI DEITCH

has participated in

FHWA-NHI-133121 Traffic Signal Design and Operation

hosted by

LA DOTD/LTRC

Date: *August 16-17, 2017*

Hours of Instruction: 11

Location: *Baton Rouge, LA*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

PTV GROUP

the mind of movement

CERTIFICATE OF TRAINING

Ari Deitch

is awarded 14 PDH credits for participation in the following training course:

PTV Vissim Introduction

PTV AG – PTV Vision
traffic mobility logistics.
Certified Trainer No. 55

Bastian Schroeder, Ph.D., P.E.

May 13, 2015
Baton Rouge, LA

Certificate of Professional Development Hours

presented to

Ari Deitch

for attending the

Highway Safety Manual Workshop

12 PDHs

on

May 2-3, 2013 Baton Rouge, Louisiana

Authorized By

Research, Technology Transfer, Education and Training

Dynameq

Certificate of Attendance

This is to certify that

Ari Deitch

has attended

Introduction to Dynameq

held July 11, 2018
in Baton Rouge, Louisiana

Signed at Baton Rouge, this 11th day of July, 2018

Michael Mahut, instructor

INRO The Evolution of Transport Planning
345 Victoria Avenue, Suite 200
Westmount, Montreal, Québec, Canada
H3Z 2N2
www.inrosoftware.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Kester Berk Hollier

License/Certificate Type - Number	Expiration Date
PE.0034304	03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board Inc.

certifies that

Kester Beck Hollier

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

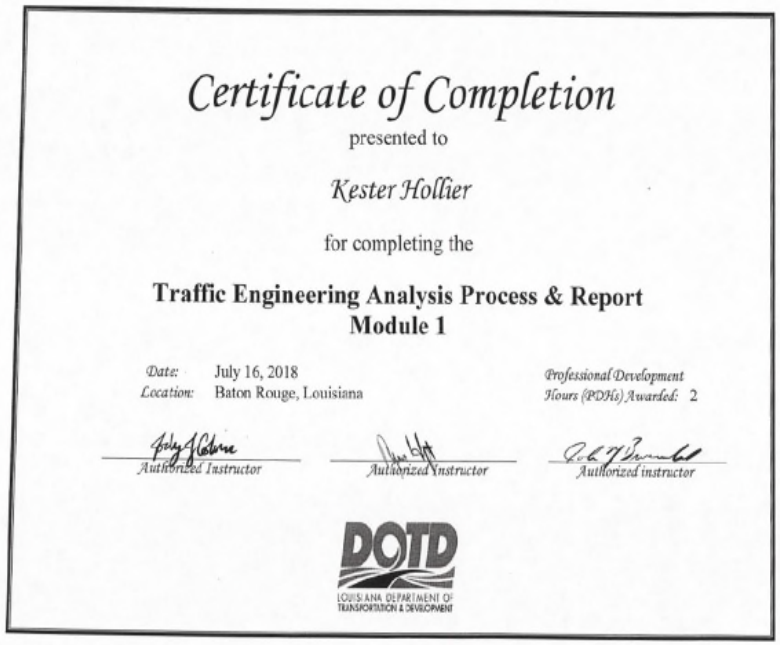
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3928 issued in Washington, D.C., U.S.A.
November 18, 2015

Kenneth W Ackert
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director



Certificate of Completion

presented to

Kester Hollier

for completing the

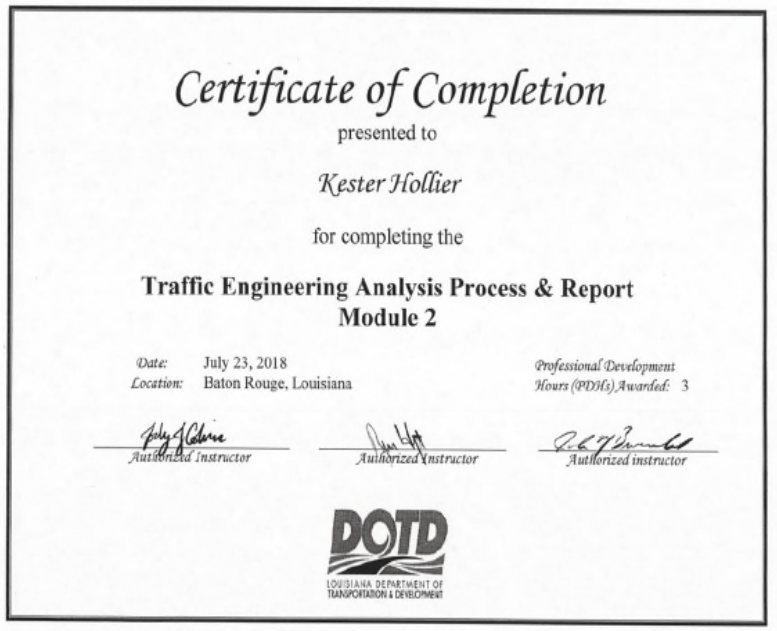
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kester Hollier

for completing the

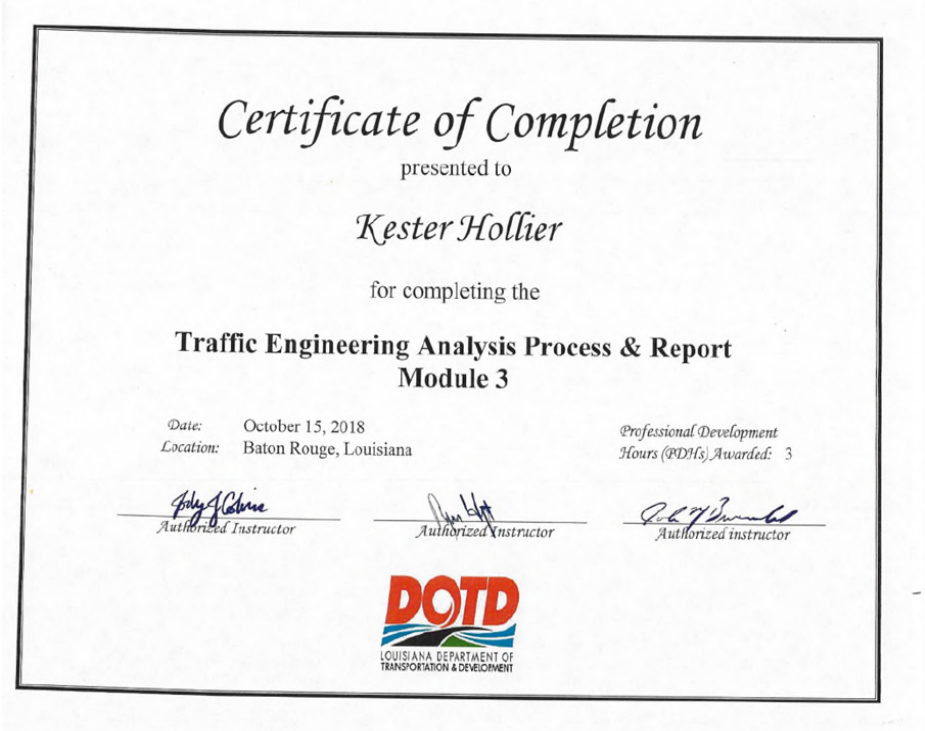
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kester Hollier

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Cut Here

Fold Here

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

Mr. Thomas Jude Montz Jr.

License/Certificate Type - Number	Expiration Date
PE.0039128	09/30/2024

Status: Active

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

Thomas Jude Montz, Jr.

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4093 issued in Washington, DC, USA
7/18/2016

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Kenneth W. Ackeret
Chair

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Thomas Jude Montz, Jr.

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

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 599 issued in Washington, DC, USA

3/15/17

Michael K. Park
Chair

PTP
PROFESSIONAL
TRANSPORTATION
PLANNER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Thomas Montz

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Thomas Montz

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Thomas Montz

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 3, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Training Certificate

PRESENTED TO

Thomas Montz

for successful completion of a webinar presentation on

Traffic Controller (Naztec TS1 & TS2) and Streetwise Training Course

September 5, 2013

8 PDH's

Michael Trueblood, PE, PTOE
Facilitator

Trafficware UNIVERSITY

LAPELS Continuing Professional Development Provider - CPD.0000281

McTrans
Moving Technology

This certifies that

Thomas Montz

Attended and successfully completed the following training

Highway Capacity Analysis

Conducted in Baton Rouge, LA on May 23-24, 2012

12 PDHs

Bill Sampson, Instructor
University of Florida

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Thomas Montz

has participated in

NHI Course No. 133078 –
Access Management, Location and Design

hosted by

LA DOTD/LTRC

Date: February 5-7, 2013

Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Completion

Thomas Montz

Has completed the professional development workshop

Designing Streets for Pedestrians & Bicyclists

April 17-19, 2013

Course instructors for this workshop were Michael Ronkin and Michael Moule, PE, PTOE.

This course counts towards 21 professional development hours (PDH) according to the standards of the American Planning Association, Louisiana Professional Engineering and Land Surveying Board or the American Society of Landscape Architects.

This course was offered as part of the Regional Planning Commission Pedestrian and Bicycle Program, sponsored by the Louisiana Department of Transportation and Development

Michael Moule, PE, PTOE

Michael Ronkin

NE ROUNDABOUTS

CERTIFICATE OF COURSE COMPLETION

This certifies that ***Thomas Montz*** has completed

ROUNDABOUT DESIGN WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 10th & 11th, 2013

Howard McCulloch

Howard McCulloch, P.E., NE ROUNDABOUTS

NE ROUNDABOUTS

CERTIFICATE OF COURSE COMPLETION

This certifies that ***Thomas Montz*** has completed

SIDRA INTERSECTION 6
ROUNDABOUT ANALYSIS WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 12th & 13th, 2013

Howard McCulloch

Howard McCulloch, NE ROUNDABOUTS

PTV GROUP

the mind of movement

CERTIFICATE OF TRAINING

Thomas Montz

is awarded 14 PDH credits for participation in the following training course:

PTV Vissim Advanced

PTV AG – PTV Vision
traffic mobility logistics.
Certified Trainer No. 55

Soheil Sajjadi, Ph.D.

May 22, 2015
Baton Rouge, LA

Dynameq

Certificate of Attendance

This is to certify that

Thomas Montz

has attended

DTA Modelling with Dynameq

held April 25-27, 2017
in Seattle, Washington, United States

Signed at Seattle this 27th day of April, 2017

Adam Harmon and Michael Mahut, instructors

INRO The Evolution of Transport Planning

376 Victoria Avenue, Westmount, Montréal (Québec) H3Z 1C3 • www.inrosoftware.com

The American Traffic Safety Services Association

Hereby recognizes that

Thomas Montz

has attended

Traffic Control Technician-LA State Specific

Training Course

7/10/2019 to 7/10/2019
Date

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Shrugley
Training & Products Dept. Director

Ryn A. Wentz
President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Thomas Montz

has attended

Traffic Control Supervisor-LA State Specific

Training Course

7/11/2019 to 7/12/2019
Date

New Orleans, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Jessica Shrugley
Training & Products Dept. Director

Ryn A. Wentz
President, CEO

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Marwan B. Abboud

License/Certificate Type - Number	Expiration Date
PE.0034657	09/30/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/21/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

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

Mr. Skyler James Waaso

License/Certificate Type - Number: PE.0039070

Expiration Date: 09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

Skyler James Waaso

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

Professional Traffic Operations Engineer

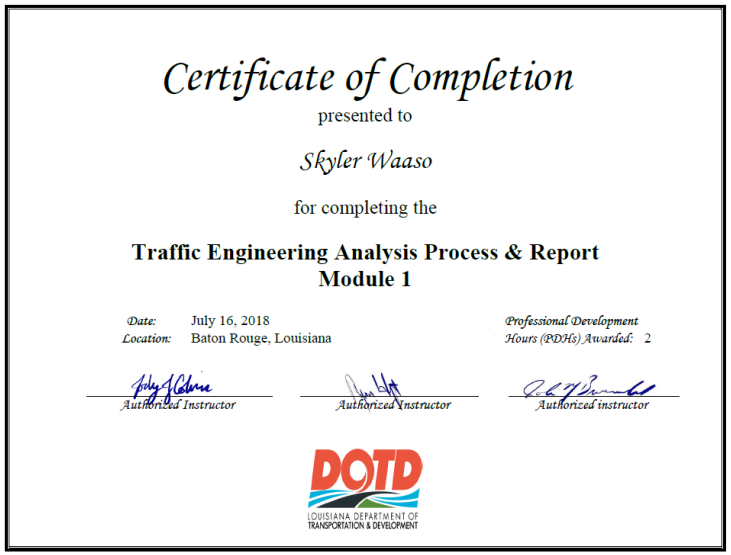
unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4600 issued in Washington, DC, USA

3/27/19

Diane M. Morabito
Diane Morabito
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director



Certificate of Completion

presented to

Skyler Waaso

for completing the

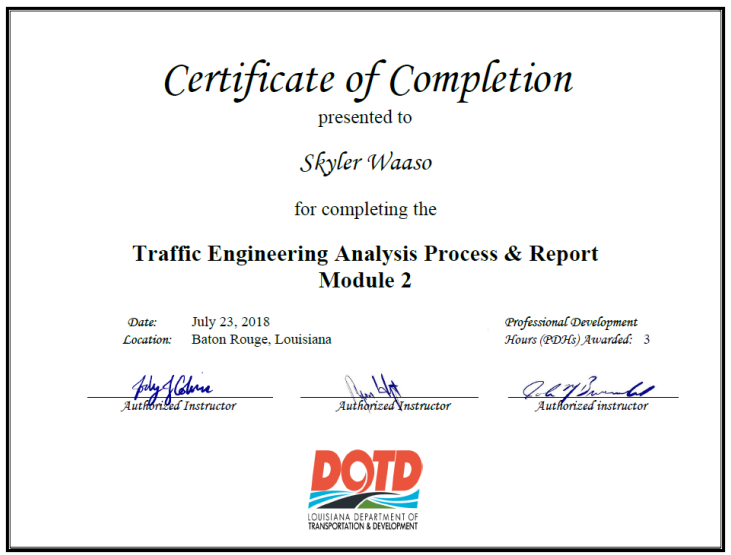
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Skyler Waaso

for completing the

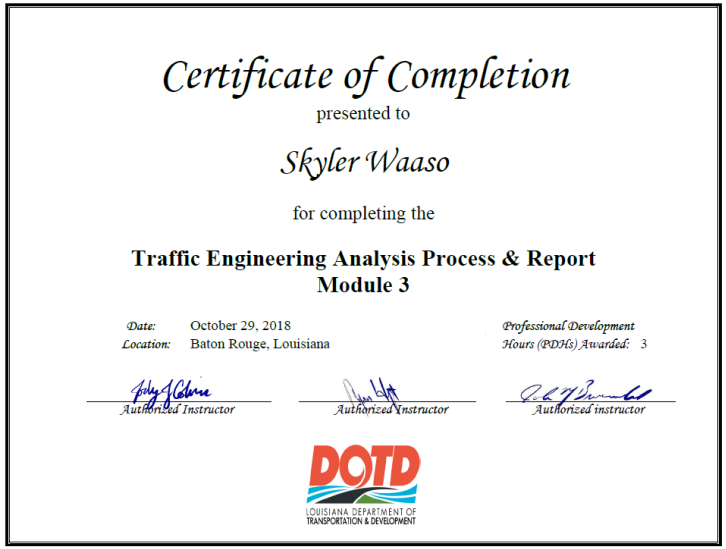
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Skyler Waaso

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/18/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

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

Mr. Sridhar Basetty

License/Certificate Type - Number	Expiration Date
PE.0038950	09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board Inc.

certifies that

Sridhar Basetty

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 3682 issued in Washington, D.C., U.S.A.
August 1, 2014

Timothy P. Harpst
Chair

PTOE
PROFESSIONAL
TRAFFIC
OPERATIONS
ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Sridhar Basetty

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

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 526 issued in Washington, DC, USA
7/18/2016

Kenneth W. Ackeret
Chair

PTP
PROFESSIONAL
TRANSPORTATION
PLANNER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Jose Manuel Rodriguez

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 160 issued in Washington, DC, USA

12/21/2018

Diane L. Morabito
Diane Morabito
Chair

ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Jose M. Rodriguez

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jose M. Rodriguez

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jose M. Rodriguez

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Jose M Rodriguez

has participated in the online webinar

Seeing the Value: Using CMFs to Calculate the Benefits of Safety Improvements

conducted by:

CRASH MODIFICATION FACTORS CLEARINGHOUSE

Date: **Dec. 6, 2016**

Hours of instruction: **1.5**

Daniel Carter, CMF Clearinghouse manager

Training Coordinator/Instructor

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/15/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

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

Mr. Justin Michael Maderia

License/Certificate Type - Number	Expiration Date
PE.0038492	03/31/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board Inc.

certifies that

Justin M. Madecia

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

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

Certificate number 3455 issued in Washington, D.C., U.S.A.

July 22, 2013

Timothy P. Harpst
Chair

PTOE
PROFESSIONAL
TRAFFIC
OPERATIONS
ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Justin M. Maderia

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

Professional Transportation Planner

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 604 issued in Washington, DC, USA

7/19/17

Michael K. Park
Chair

PTP
PROFESSIONAL
TRANSPORTATION
PLANNER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Justin Maderia

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Justin Maderia

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Justin Maderia

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Transportation Professional Certification Board, Inc.

certifies that

Jonathan David Reid

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Unless withdrawn by the Certification Board, this certificate number 1588 issued in Washington, D.C. will remain valid for three years from March 22, 2005

Eugene M. Wilson
Chair

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

THE NORTH CAROLINA BOARD OF EXAMINERS

FOR

ENGINEERS AND SURVEYORS

Be It Known That

Jonathan D. Reid

HAVING GIVEN SATISFACTORY EVIDENCE OF THE NECESSARY QUALIFICATIONS WITH REGARD TO CHARACTER, EDUCATION, AND EXPERIENCE AS REQUIRED BY THE CURRENT NORTH CAROLINA ENGINEERING AND LAND SURVEYING ACT, WAS EXAMINED – DULY LICENSED – AWARDED THIS CERTIFICATE – AND IS HEREBY AUTHORIZED TO PRACTICE AS A

PROFESSIONAL ENGINEER

IN THE STATE OF NORTH CAROLINA

IN TESTIMONY WHEREOF: THE BOARD OF EXAMINERS ISSUED THIS CERTIFICATE UNDER THE SEAL OF THE BOARD AND SIGNATURES OF THE CHAIR AND SECRETARY

THIS 19th DAY OF June IN THE YEAR 2002.

27930
CERTIFICATE NUMBER

CHAIR OF THE BOARD

SECRETARY OF THE BOARD

Transportation Professional Certification Board Inc.
1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org

March 29, 2016

Jody Carter Peace
Arcadis
4810 Batiste Ln.
Acworth, GA USA 30101

Jody Carter Peace,

It is my real pleasure to transmit the enclosed notice that you have passed the examination to be certified as a *Professional Traffic Operations Engineer* ™. Congratulations!

The Certification Board previously determined you met all other requirements for certification. If there is no balance due on the attached invoice you may now use the title Professional Traffic Operations Engineer ™ and/or the initials PTOE™ in the conduct of your professional practice. If payment is outstanding, you must pay the balance due and only then are you a PTOE™.

While you wait for your certificate, your PTOE certification number is: **4029** A certificate will reach you within 120 days. If you wish your name to appear on the certificate any differently from how it is shown here, please contact Ann O'Neill **immediately** at aoneill@tpcb.org or by fax at 202-785-0609.

Jody Carter Peace

Your initial certification fee covers a three-year period and will expire March 29, 2019. During that period you must keep at least one governmentally issued professional engineering license valid and must report to the Certification Board at this letterhead address should your professional engineering license in any jurisdiction, your membership in any professional engineering society or your employment or engagement as a professional engineer be suspended or terminated for unethical or illegal actions. Any of the above could cause your certification to be revoked, subject to an established appeal procedure.

At the end of the three-year period, your certification will be renewed without examination if you demonstrate you have met the continuing professional development and education activities required. The specific components of the required continuing professional development are described in the enclosed attachment. Begin earning and keeping track of your professional development units so when it is time to renew in 2019, the PDH's will be easily accessible. ITE has developed a web-based Professional Competency Record Keeping System to assist you in keeping such a log. www.ite.org/pdrks/default.asp

Let me again congratulate you on obtaining this certification. We hope you will display your certificate with justified pride and carry out your professional activities in a manner to bring added luster to the title and practice of Professional Traffic Operations Engineer. Should you have questions now or in the future, please do not hesitate to contact me or the staff at the address above.

Sincerely,

Kenneth W. Ackeret, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Attachments

National Highway Institute

Certificate of Training

U.S. Department
Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellenc

Jody Peace

has participated in

FHWA-NHI-380100 Using IHSDM

hosted by

National Highway Institute

***Location**: Blended WCT*

Date: June 12, 2012

***Hours of Instruction:** 12 hours*
CEU:** **1.2

Richard J. Barnaby, Director
National Highway Institute

Certificate of Completion

presented to

Tony Moore

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Tony Moore

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Tony Moore

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT


ATSSA
TRAINED
PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT
Anthony J Moore
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course
1/25/2022 to 1/25/2026
Training Valid Through
Director of Training
Baton Rouge, LA
Location
President, CEO
ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.
ATSSA
American Traffic Safety Services Association ATSSA.com

Transportation Professional Certification Board, Inc.

certifies that

Max Aguirre

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 636 issued in Washington, DC, USA

8/3/2021

Deborah L Snyder
Deborah Snyder
Chair

RSP1 ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

TPCB Passed Notification

info@ite.org <info@ite.org>
Jue 4/8/2022 06:22
Para: maxaguirre92@outlook.com <maxaguirre92@outlook.com>

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 550 • Washington, DC 20006 USA • Tel: 202-785-0060 • www.tpcb.org

Max Aguirre, Ph.D.,PE,PTOE,RSP1
Arcadis, US Inc

It is my pleasure to inform you that you have passed the written examination and are certified as a Professional Traffic Operations Engineer® ® (PTOE). As a PTOE you will be recognized as one of a specialized group of professionals with the set of skills and expertise needed to successfully solve and implement solutions and create better communities. You will receive a letter with your specific exam details within the next few weeks.

The Certification Board previously determined you met all other requirements for certification. If there is no balance due on your account you may now use the title Professional Traffic Operations Engineer® ® and/or the initials PTOE in the conduct of your professional practice. If payment is outstanding, you must pay the balance due and only then are you a PTOE.

While you wait for your certificate, your PTOE certification number is: **5,291**. You should receive your certificate in 120 days. If you wish your name to appear on the certificate any differently from how it is shown here, please contact Ann O'Neill immediately at certification@tpcb.org.

Max Aguirre, Ph.D.,PE,PTOE,RSP1

Your initial certification fee covers a three-year period and will expire 7/13/2025.

At the end of the three-year period, your certification may be renewed without examination if you demonstrate that you have met

the continuing professional development and education activities required. The specific components of the required continuing professional development will be included in the letter with your exam details. Begin earning and keeping track of your professional development units so that when it is time to renew, the necessary PDH's will be easily accessible. As of January 1, 2018, TPCB phased in a policy in which 20 percent of certificant renewals will be randomly selected for audit and the certificant will be required to provide documentation (certificates of completion, course syllabus, meeting agenda/registration, etc.) to demonstrate fulfillment of continuing education requirements. The professional record-keeping systems, available from ITE, provide a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation. www.ite.org/pdrks.

Let me again congratulate you on obtaining this certification. We hope that you will display it with justified pride and carry out your professional activities in a manner to bring added luster to the title and practice of Professional Traffic Operations Engineer® ®.

The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB website was redesigned and a new certification–the Road Safety Professional–was launched. Going forward the TPCB is committed to expanding the awareness of its certification programs, encouraging jurisdictions to give preference to certificants and growing the number of certified professionals. The TPCB distributes a quarterly newsletter and highlights the value of its certification programs through the tpcb.org website. If you would like to contribute to the newsletter or website, please send any items of interest to: certification@tpcb.org.

Should you have questions now or in the future, please do not hesitate to contact me or the staff at the address below.

Sincerely,

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Max Aguirre

has attended

Traffic Control Technician-LA State Specific

Training Course

9/7/2021 to 9/7/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Max Aguirre

has attended

Traffic Control Supervisor-LA State Specific

Training Course

9/8/2021 to 9/9/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

Transportation Professional Certification Board, Inc.

certifies that

Kwaku Frimpong Boakye

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 5136 issued in Washington, DC, USA
11/20/2021

Deborah L Snyder

Deborah Snyder
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Kwaku Frimpong Boakye

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 579 issued in Washington, DC, USA

4/5/2021

Deborah L Snyder

Deborah Snyder
Chair

RSP1 ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Meredith Guidry

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

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 861 issued in Washington, DC, USA

7/13/2022

Deborah L Snyder

Deborah Snyder
Chair

ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Meredith Guidry

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Meredith Guidry

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Meredith Guidry

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: March 11, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Shafia Nazneen

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Shafia Nazneen

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Shafia Nazneen

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

The American Institute of Certified Planners

The Professional Institute of the American Planning Association

hereby qualifies

Julie Anne McQueen

as a member
with all the benefits
of a Certified Planner and
responsibility to the
AICP Code of Ethics
and Professional Conduct.

Certified Planner Number: **021863**

August 13, 2007

PRESIDENT

EXECUTIVE DIRECTOR

PROFESSIONAL LICENSING

GEORGIA SECRETARY OF STATE BRAD RAFFENSPERGER

CORPORATIONS • ELECTIONS • LICENSING • CHARITIES

Licensee Details

Licensee Information

Name: Thomas Harold Brown, Jr

Address:

Marietta GA 30066

Primary Source License Information

Lic #:	LA001707	**Profession:**	Landscape Architects	**Type:**	Landscape Architect
Secondary:		**Method:**	Examination	**Status:**	Active
Issued:	7/2/2014	**Expires:**	12/31/2022	**Last Renewal Date:**	12/7/2020

Associated Licenses

No Prerequisite Information

Public Board Orders

Please see Documents section below for any Public Board Orders

Other Documents

No Other Documents

Data current as of: July 28, 2022 15:35:40

This website is to be used as a primary source verification for licenses issued by the Professional Licensing Boards. Paper verifications are available for a fee. Please contact the Professional Licensing Boards at 844-753-7825.

Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized instructor

Society of Wetland Scientists
Professional Certification Program, Inc

renews the designation

Professional Wetland Scientist

For

Jason E. Morrell

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Renewal Program, and verified by the Society's Certification Renewal Review Panel.
Professional Wetland ScientistNumber 2319 issued on 4/1/2013 and recertified on 2/10/2018.
Due to recertify again by 4/1/2023.

Ben LePage, PWS
President

Pat Frost, PWS
Certification Renewal Chair

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

JASON MORRELL

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: *December 3-5, 2018*

Location: *Baton Rouge, LA*

Hours of Instruction: 18

Rod Vaughn
Instructor

Allison H. Landry
Local Coordinator

Dawn Schilling
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

Society of Wetland Scientists
Professional Certification Program, Inc

grants the designation

Professional Wetland Scientist

For

Jayun Thibodeaux

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Program, Inc. and verified by the Society's Certification Review Panel on 9/19/2022.
Professional Wetland Scientist number 3565. Due to recertify by 9/19/2027.

Rob McInnes, PWS
President

Robert D. Shannon, Ph.D., PWS
Review Panel Chair

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Jose Luis Rodriguez

License/Certificate Type - Number	Expiration Date
PE.0030492	03/31/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Thomas L. Ervin
Traffic Doc, LLC
269 Evangeline Drive
Mandeville, LA 70471-1894
Phone 985-373-0534

November 2, 2019

To Whom It May Concern,

This is to verify that the below listed employees of WSP, USA have successfully completed ATSSA traffic control training courses in New Orleans, LA as described below:

LA Specific Traffic Control Technician (TCT) – 10-29-19 = Brian Hundt, Rebecca Lala, Victor Sanchez, & Hamid Yaghoubi

LA Specific Traffic Control Supervisor (TCS) - 10-31-19 – Brian Hundt, Rebecca Lala, Victor Sanchez, & Hamid Yaghoubi

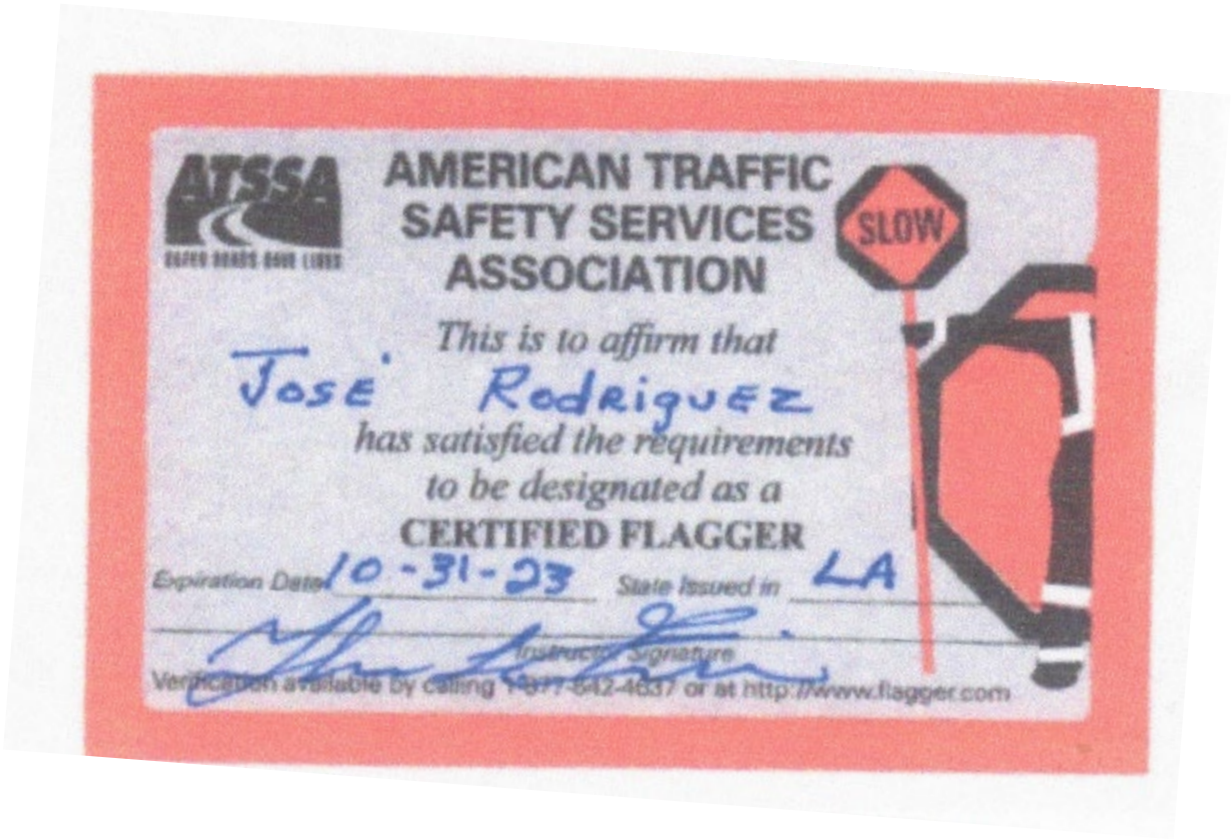
LA Specific Traffic Control Supervisor Refresher (TCS REFRESHER) – 11-1-10 – Jose' Rodriguez

This letter will serve as temporary proof of successful course completion until the above listed employees receive their official certificates from the American Traffic Safety Services Association (ATSSA). This temporary letter shall expire 90 days from the dates of training shown above.

Should there be any questions regarding the above, please contact the undersigned at the above captioned address.

Best Regards,

Thomas L. "Tom" Ervin – ATSSA Master Instructor



ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jose L Rodriguez

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

11/1/2019 to 11/1/2019
Date

New Orleans, LA
Location

Vice President of Member Services

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/21/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. David Lorie Fulks II
P. O. Box 1934
Albany, Louisiana 70711

Cut Here

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

Mr. David Lorie Fulks II

License/Certificate Type - Number	Expiration Date
PE.0030151	09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.


DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DOTD
DESTINATION ZERO DEATHS
This certificate of training is presented to
DAVID FULKS
In Recognition of Attending
Highway Safety Manual Workshop
Baton Rouge, Louisiana
Elizabeth Wemple, PE
Eric Tang, PE
Instructor
18.0 Professional Development Hours
June 1-3, 2011
Date

CERTIFICATE OF COURSE COMPLETION

This certifies that ***David Fulks*** has completed

ROUNDABOUT DESIGN WORKSHOP

Hours of Instruction: 13

Location: Baton Rouge, Louisiana
Date: September 10th & 11th, 2013

Howard McCulloch

Howard McCulloch, P.E., NE ROUNDABOUTS

Jeff A. Jones

is hereby certified as a

Traffic Signal Technician Level I

by completing all requirements and examination for certification
on 8/23/2021

Valid thru 8/23/2024
Certification #AA_112604

Toby Cummings - Executive Director

Jeff A. Jones

is hereby certified as a

Traffic Signal Field Technician Level II

by completing all requirements and examination for certification
on 8/23/2021

Valid thru 8/23/2024
Certification #BE_112604

Toby Cummings - Executive Director

The American Traffic Safety Services Association

Hereby recognizes that

Jeff Jones

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

6/20/2019 to 6/20/2019
Date

Lake Charles, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Jeff Jones

has attended

Traffic Control Design Specialist - 1 day

Training Course

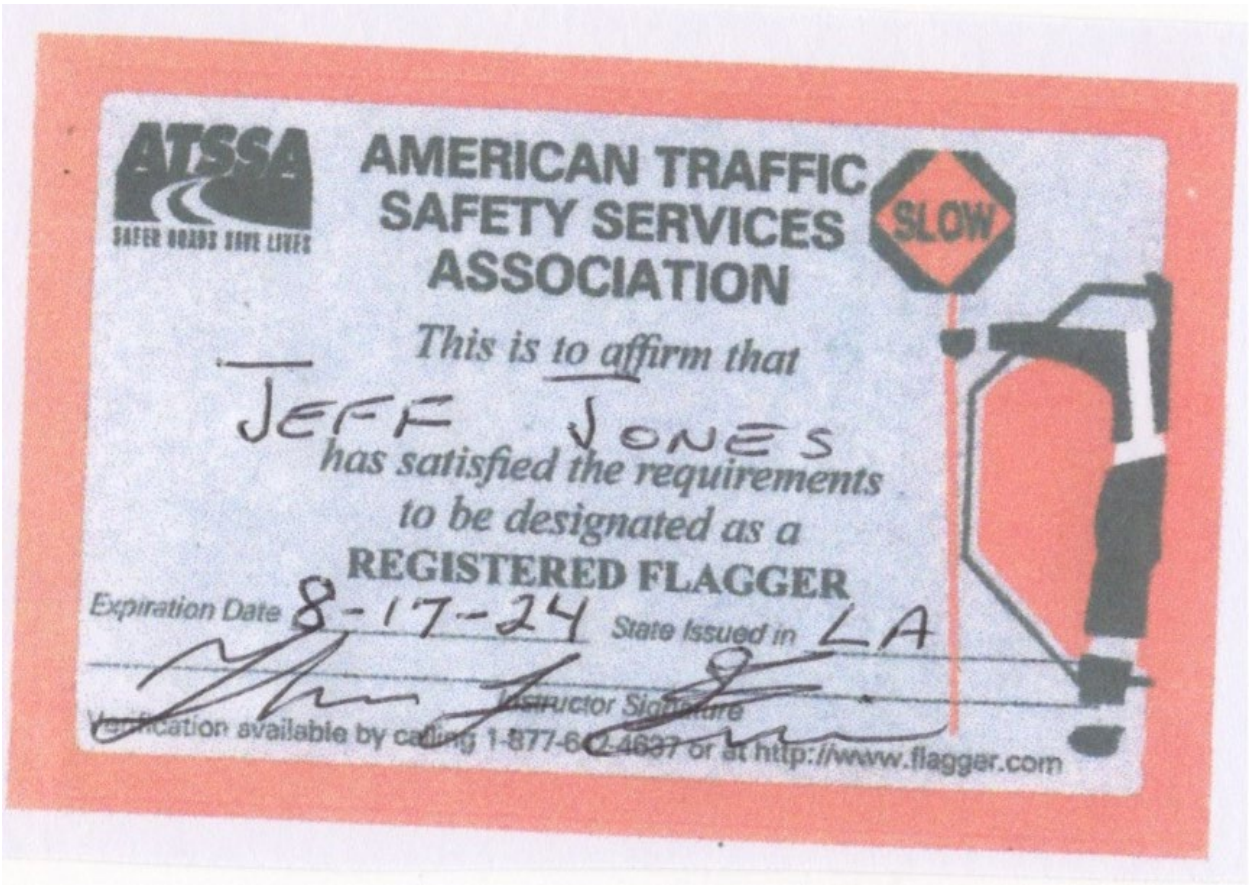
06/22/2015
Date

Baton Rouge, LA
Location

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO


ATSSA
SAFER ROADS SAVE LIVES
AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION
SLOW
This is to affirm that
JEFF JONES
has satisfied the requirements
to be designated as a
REGISTERED FLAGGER
Expiration Date 8-17-24
State Issued in LA
Instructor Signature
Verification available by calling 1-877-6[illegible]-4637 or at http://www.flagger.com


CERTIFIED
PUBLIC SAFETY TECHNICIAN
IMSA
Anthony Jackson, III
is hereby certified as a
Traffic Signal Inspector for Advanced Technologies
by completing all requirements and examination for certification
on 1/26/2022
Valid thru 1/26/2025
Certification #AT_117627
Toby Cummings, CAE - Executive Director


CERTIFIED
PUBLIC SAFETY TECHNICIAN
IMSA
Anthony Jackson, III
is hereby certified as a
Traffic Signal Senior Field Tech Level III
by completing all requirements and examination for certification
on 1/26/2022
Valid thru 1/26/2025
Certification #CE_117627
Toby Cummings, CAE - Executive Director

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Anthony Jackson

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

1/25/2022 to 1/25/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

ATSSA American Traffic Safety Services Association ATSSA.com

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

ANTHONY JACKSON

has participated in

FHWA-NHI-133121

Traffic Signal Design and Operation

hosted by

LA DOTD/LTRC

Date: *December 13-14, 2016*

Location: *Baton Rouge, LA*

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mrs. Kimberly Dawn McDaniel

License/Certificate Type - Number: PE.0032973

Expiration Date: 09/30/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board Inc.

certifies that

Kimberly D. McDaniel

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 2072 issued in Washington, D.C., U.S.A.
October 2, 2007

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Kimberly McDaniel

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

Professional Transportation Planner

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

Deborah L Snyder
Deborah Snyder
Chair

PTP
PROFESSIONAL TRANSPORTATION PLANNER

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kimberly McDaniel

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mrs. Diane Callahan Hammonds

License/Certificate Type - Number: PE.0040749

Expiration Date: 09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

Diane Callahan Hammonds

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4113 issued in Washington, DC, USA

12/19/16

Kenneth W. Ackeret
Chair

PTOE
PROFESSIONAL
TRAFFIC
OPERATIONS
ENGINEER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Diane C. Hammonds

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

Road Safety Professional

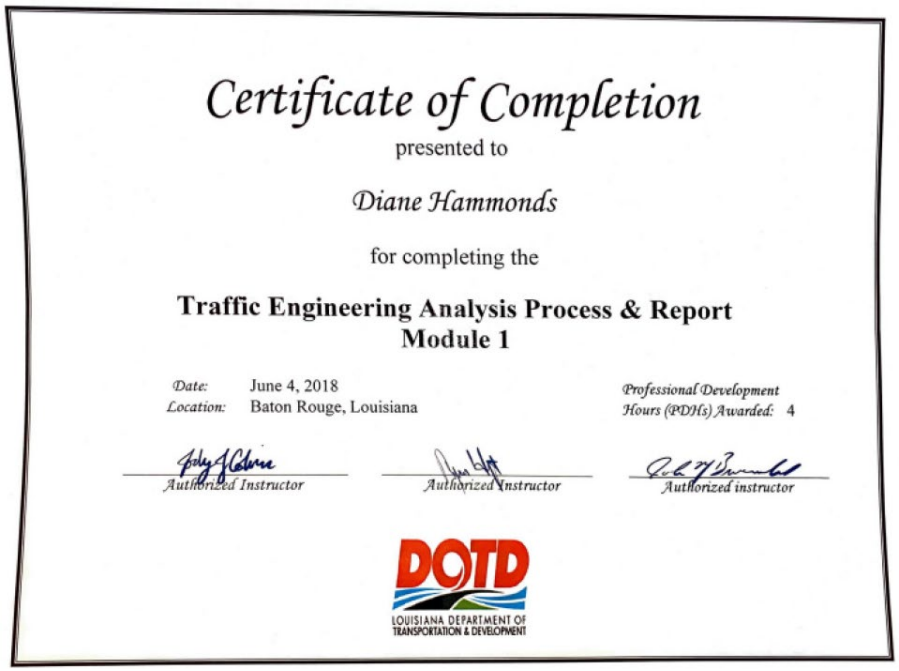
unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 798 issued in Washington, DC, USA

3/14/2022

Deborah L Snyder
Deborah Snyder
Chair

RSP1 ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director



Certificate of Completion

presented to

Diane Hammonds

for completing the

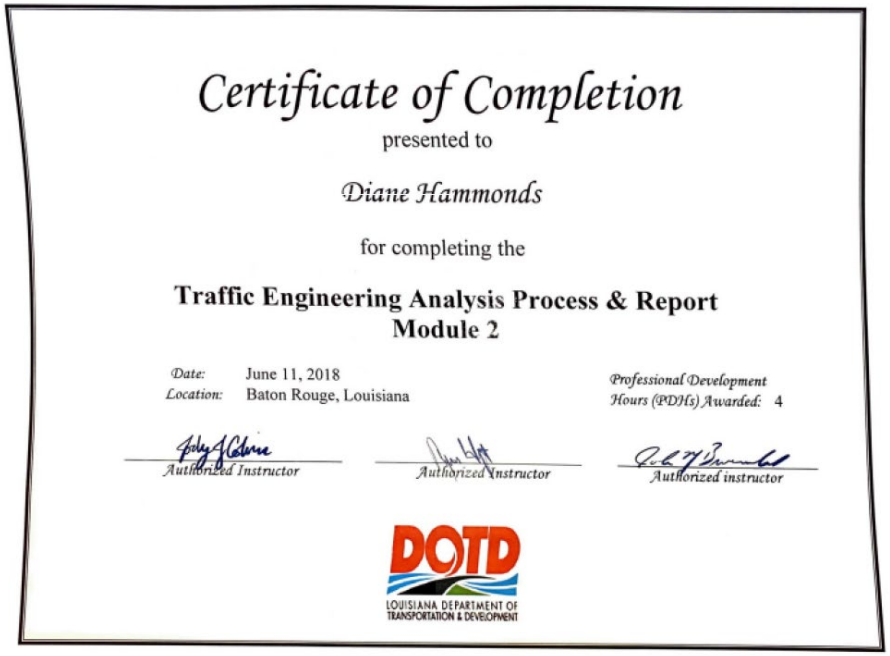
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Diane Hammonds

for completing the

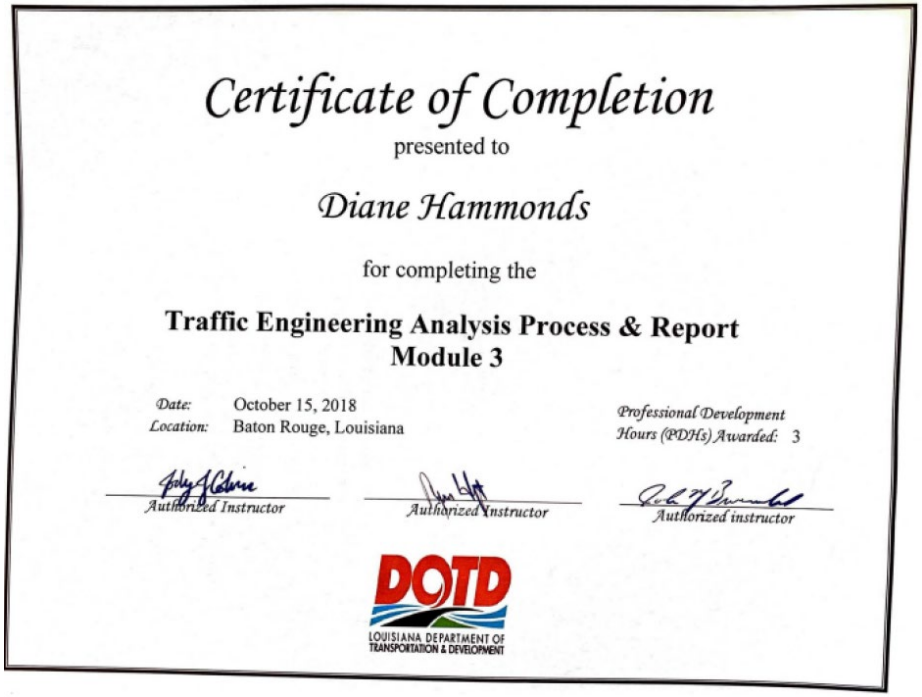
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Diane Hammonds

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Diane Hammonds

has attended

Traffic Control Supervisor-LA State Specific

Training Course

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

,
Location

Vice President of Member Services

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Jonathan Nicolas Fox

License/Certificate Type - Number: PE.0033277

Expiration Date: 09/30/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board Inc.

certifies that

Jonathan Nicolas Fox

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

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

Certificate number 2329 issued in Washington, D.C., U.S.A.

November 7, 2007

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD, INC.

Executive Director

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jonathan Fox

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jonathan Fox

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

1/25/2022 to 1/25/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Clarke Phillip Chauvin

License/Certificate Type - Number: PE.0041770

Expiration Date: 09/30/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

Clarke Phillip Chauvin

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4337 issued in Washington, DC, USA

11/20/17

Michael K. Park
Chair

PTOE
PROFESSIONAL
TRAFFIC
OPERATIONS
ENGINEER

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDH's) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDH's) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clarke Chauvin

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDH's) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Clarke P. Chauvin

is hereby certified as a

Traffic Signal Field Technician Level II

by completing all requirements and examination for certification
on 9/28/2022

Valid thru 9/28/2025
Certification #BE_125780

Toby Cummings - Executive Director

Clarke P. Chauvin

is hereby certified as a

Traffic Signal Inspector

by completing all requirements and examination for certification
on 8/25/2022

Valid thru 8/25/2025
Certification #SI_125780

Toby Cummings - Executive Director

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Clarke Chauvin

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

1/25/2022 to 1/25/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Colin Francis

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | *Authorized Instructor* | *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 11/7/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. LaDarien C. Beene

License/Certificate Type - Number	Expiration Date
PE.0045333	09/30/2023

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Transportation Professional Certification Board, Inc.

certifies that

LaDarien C. Beene

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 5062 issued in Washington, DC, USA

8/3/2021

Deborah L Snyder
Deborah Snyder
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

LaDarien Beene

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: April 19, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

LaDarien Beene

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: May 21, 2018
Location: Alexandria, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

LaDarien Beene

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

LaDarien Beene

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/27/2022 to 4/27/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

LaDarien Beene

has attended

Traffic Control Technician-LA State Specific

Training Course

4/26/2022 to 4/26/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

ATSSA American Traffic Safety Services Association ATSSA.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Cut Here

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

Mr. Marcus Samuel Bonton

License/Certificate Type - Number: PE.0040389

Expiration Date: 09/30/2022

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Marcus Bonton

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

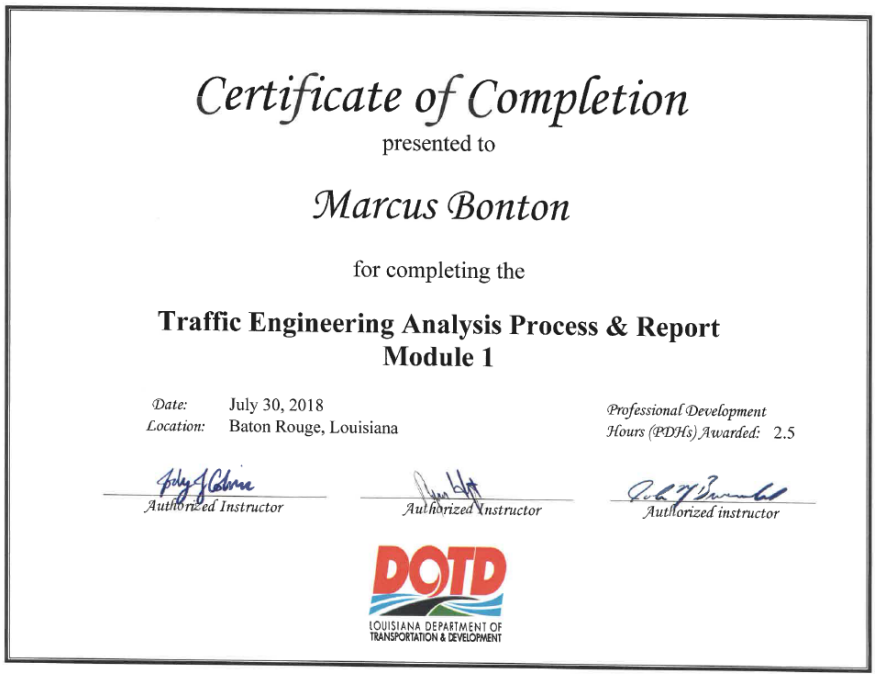
Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com



Certificate of Completion

presented to

Marcus Bonton

for completing the

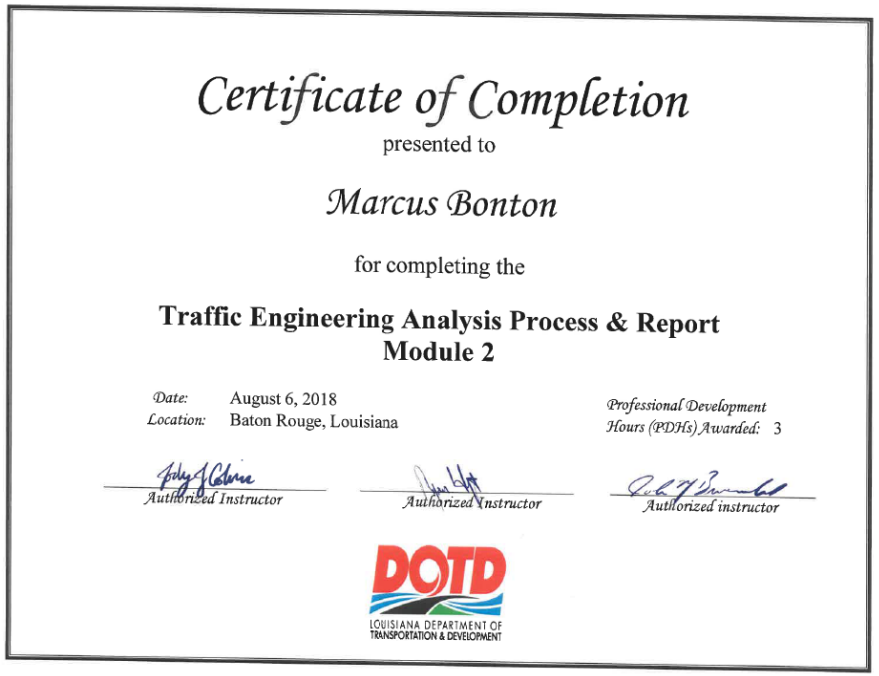
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Marcus Bonton

for completing the

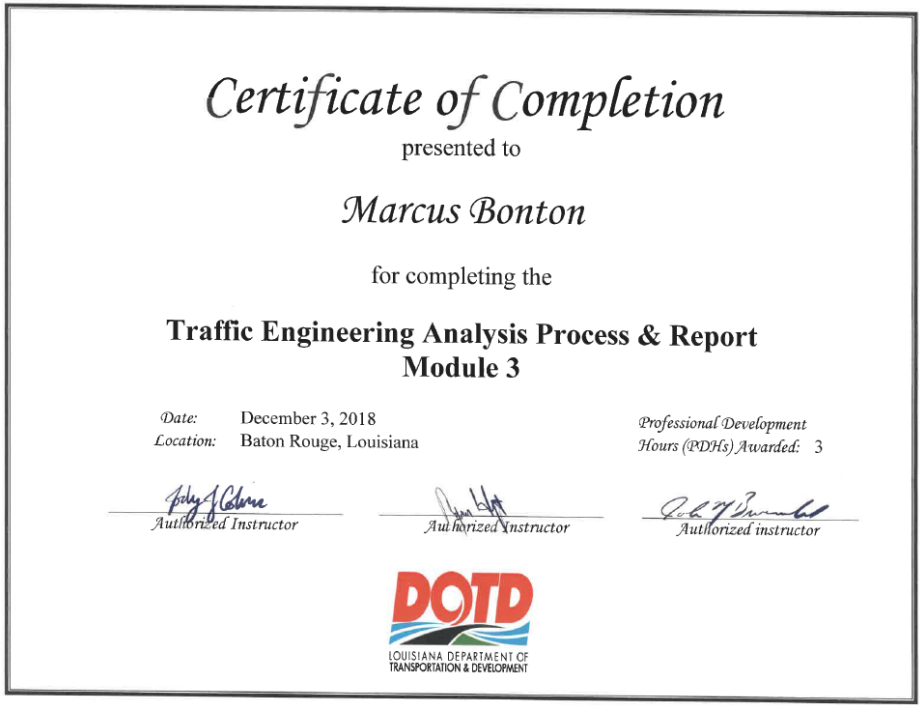
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Marcus Bonton

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 3, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

21. QA/QC Plan and/or Work Plan:

If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

22: Sub-consultant information

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Intelligent Transportation Systems, LLC	20405 Highland Road Baton Rouge, LA 70817	Kimberly D. McDaniel, P.E., PTOE, PTP kimberly@itsanswers.com	225-751-9300
Bonton Associates, LLC	232 Third Street, Suite 100, Baton Rouge, LA 70801	Marcus Bonton, P.E. marcus@bontonassociates.com	225-706-0975
GRAM Traffic Counting, Inc.	3751 FM 1105, Bldg. A Georgetown, TX 78626	Stacie Bittner Stacie@gramtraffic.com	512-832-8650 512-642-8912
Southern Traffic Services, Inc.	2911 Westfield Road, Gulf Breeze, FL 32563	Justin Smith jusmith@rekor.ai	850-934-5732

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.

Arcadis
10352 Plaza Americana Drive
Baton Rouge, LA 70816
T 225 292 1004
www.arcadis.com

www.arcadis.com
Arcadis
Arcadis North America
@ARCADIS_US