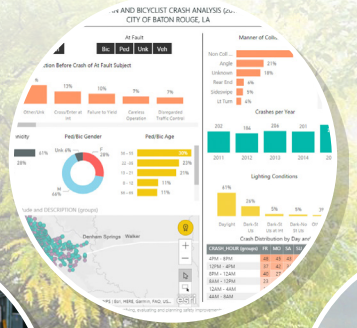


ARCADIS

CONTRACT NOS. 4400031590, 4400031591, AND 4400031592

March 19, 2025

IDIQ CONTRACTS FOR SAFETY STUDIES, STATEWIDE

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Arcadis U.S., Inc.
6100 Corporate Blvd Suite 325
Baton Rouge, LA 70808
Phone: 225 292 1004
Fax: 225 218 9677
www.arcadis.com

Wednesday, March 19, 2025

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

Subject: **Contract Nos. 4400031590, 4400031591, and 4400031592 IDIQ Contracts for Safety Studies, 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 **Safety Studies and Design Projects for more than 10 years**. Collectively, our team has **completed over 50 Stage 0 Safety and Feasibility Studies in Louisiana** of all scales and complexity. These studies included pedestrian and bicycle improvements, safety and mobility improvements for roadways and intersections, Road Safety Assessments (RSAs), and safety effectiveness evaluations. Additionally, our team has **completed design plans for over 30 Low-Cost Safety Improvement Projects throughout the state**. This experience has allowed us to develop strong working relationships with LADOTD staff and Local Public Agencies (LPAs) throughout the state, with projects covering all 9 Districts (02, 03, 04, 05, 07, 08, 58, 61, and 62) and over 20 Parishes.

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, which is integral to understanding LADOTD's expectations and ensuring that they are consistently met through regular touchpoints.

As a cornerstone to our approach, the Arcadis Team offers a deep bench of experienced professionals providing **redundancy on 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, which can be utilized 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
Safety and Traffic Engineering	• Highest past performance ratings for LADOTD safety and traffic **(4.6/5)** projects. We received positive reviews on our current Safety Studies IDIQ as well. • Highly experienced with Highway Safety Manual (HSM) methodologies and network screening tools. • Intimately familiar with LADOTD's Traffic Engineering Process and Report (TEPR).
Planning and Environmental	• Extensive experience preparing Stage 0 Studies **(past performance rating – 4.5/5)** to inform decision making and NEPA documents for environmental clearance.

Subject Matter	Team Expertise
	• Understanding of how transportation projects affect the natural and built environment and how to avoid/minimize impacts through innovative design. • Understanding of regulatory agency's primary concerns and "hot-button" issues.
Roadway and Low-Cost Safety Design	• Experience delivering over 30 low-cost safety design projects. • Coordinated with over 32 LPAs to provide context sensitive design solutions. • Local professionals with access to technical experts across the country — having completed designs for many state DOTs in the southeast. • In-depth experience with LADOTD roadway **(past performance rating – 3.9/5)** design guidelines and manuals, and multimodal facility design and best practices.

OUR STRENGTHS

Arcadis' access to industry leading expertise and technologies — paired with our **dedication to innovative solutions** — make our client's job easier and facilitate successful project delivery. Our innovative project delivery tools will be made accessible to LADOTD including **data dashboards** which simplify the analysis of complex data sets through intuitive visualization, saving time traditionally spent wading through hard to read spreadsheets. Led by Ari Deitch, our experienced and dedicated project management team are knowledgeable with these tools and will bring a laser sharp focus on scope, schedule, and budget — ensuring projects are delivered on-time with the agreed upon fee.

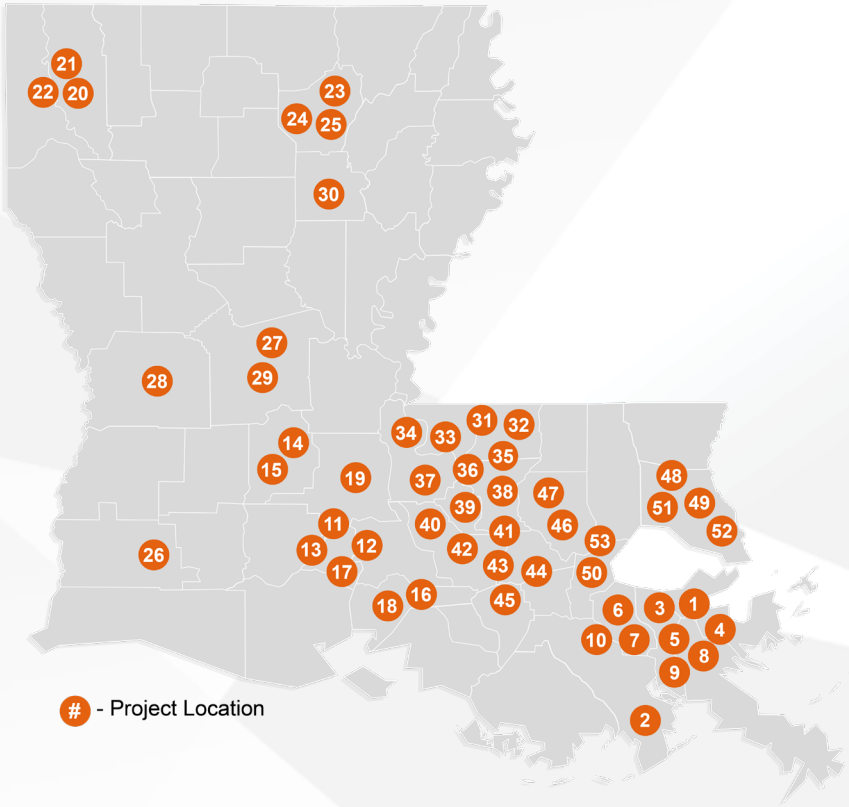
OUR MOTIVATION

Improving quality of life is our motivation and is at the forefront of every project we deliver. For Stage 0 Safety Studies and Design Projects, that means progressing **safe, cost-effective, and constructable alternatives** which 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 safety, service, and reliability of Louisiana's transportation system. Thank you for your time and consideration.

Sincerely,

Akhil Chauhan PE, PTOE, PTP, PMP
Principal Engineer

Ari Deitch, PE, PTOE, PTP, RSP
Senior Transportation Engineer



1. New Orleans Pedestrian Safety Feasibility Study
2. Baton Rouge Ped / Bike Road Safety Assessments
3. LA 3235 Corridor Stage 0 Safety Feasibility Study
4. I-10 Hard Shoulder Running (HSR) Feasibility Study
5. Florida Avenue Expressway Feasibility Study
6. I-10 from I-610 to Twin Spans Feasibility Study
7. LA 52 Widening (Paul Maillard Rd) Feasibility Study
8. Widening of US 61 Feasibility Study
9. I-310/US 90 Intersection Feasibility Study
10. Transportation Surveillance Planning Study
11. US 61 Safety Improvements Stage 0 Feasibility Study
12. Evangeline Thwy / Johnston St Intersection Study
13. Johnston St / Ambassador Caffery Intersection Study
14. I-49 Interchange Stage 0 Safety Feasibility Study
15. US 167 Feasibility Study, Elsie Street to Gilbert Dr
16. US 167 Feasibility Study, Enola Street to Ross Rd
17. LA 182 Sidewalk and Handicap Ramp Improvements
18. I-10 at Ambassador Caffery Feasibility Study
19. US 90 to I-49 Rail Crossing Feasibility Study
20. East Vine St (US 190) Feasibility Study
21. LA 3105 Corridor & Safety Feasibility Study
22. LA157 Corridor & Safety Feasibility Study
23. LA 3132 Inner Loop Extension Feasibility Study
24. LA 594 Millhaven Stage 0 Safety Feasibility Study
25. US 165 Corridor and Safety Feasibility Study
26. I-20 Frontage Development Study
27. LA 12 Sabine River Bridge Feasibility Study
28. US 71 Corridor Safety Feasibility Studies (Phases 1-3)
29. LA 117 from LA 8 to LA 118 Feasibility Study
30. St. Tammany Intersection Safety Imp Study
31. Duty Ferry Crossing Replacement Feasibility Study
32. I-12 Hard Shoulder Running (HSR) Feasibility Study
33. Burbank Access Management Study
34. Highland-Burbank Connector
35. US 61 Access Management & Safety Improvements
36. I-10 Ascension Parish Interchange Improvements
37. LA 429 Connector Feasibility Study
38. I-49 at US 190 & LA 31 Feasibility Study
39. Parker Rd / Route 929 Roundabout Feasibility Study
40. I-10 at LA 73 (LA 74 to LA 621) Feasibility Study
41. LA 19 Widening Feasibility Study
42. LA 64 and McHugh Rd Roundabout Feasiblity Study
43. LA 44 Pavement Preservation Feasibility Study
44. Ford St Extension Study
45. Picardy-Perkins Connector Study
46. Joe Sevario / Roddy Rd Roundabouts Safety Study
47. LA 44 Roundabouts Stage 0 Safety Feasibility Study
48. I-12 / Airport Rd Interchange / COngestion Mgmt Study
49. EB I-10 Pedestrian Bridge Feasibility Study
50. LA 28 Feasibility Study and Environmental Inventory
51. US 190 and LA 25 Intersection Feasibility Study
52. LA 21 at US 190B Feasibility Study
53. I-10 Reserve Canal to I-55 Feasibility Study

The Arcadis Team has completed over 50 Safety and Feasibility Studies in Louisiana in Districts 02, 03, 04, 05, 07, 08, 58, 61, and 62

Sections 1-11

Arcadis Past Performance Review:
Safety Studies IDIQ - New Orleans Pedestrian Safety Feasibility Study

"Arcadis staff worked extremely well with the diverse group of stakeholders on this project. Their efforts are commendable."

- Adrianne McRae, LADOTD Highway Safety Section

DOTD FORM: 24-102

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	**IDIQ CONTRACTS FOR SAFETY STUDIES, STATEWIDE**
2. Contract Number(s) as shown in the advertisement	CONTRACT NOs. 44-31590, 44-31591, & 44-31592
3. State Project Number(s), if shown in the advertisement	N/A
4. **Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)**	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	6100 Corporate Blvd., Suite 325 Baton Rouge, LA 70808
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	6100 Corporate Blvd., Suite 325 Baton Rouge, LA 70808
8. **Name, title, phone number, and email address of prime consultant's contract point of contact**	Ari Deitch, PE, PTOE, PTP, RSP *Senior Transportation Engineer* P. 225 244 6643 | E. ari.deitch@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. **Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.**	Signature above shall be the same person listed in Section 9:  Date: March 19th, 2025

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)' %:**

1. Lockport Sidewalk Improvements
2. New Orleans Pedestrian Crosswalk Improvements
3. Gretna Sidewalks & Safety Improvements
4. Gretna Downtown Intersection Improvements
5. New Orleans SRTS Sidewalk Improvements
6. North Kenner Pedestrian Safety Improvements
7. Kenner Signing & Striping Improvements
8. Audubon Ave & Ardoyne Dr Mini Roudabout
9. Peltier Park Sidewalk Improvements
10. Raceland & Bayou Blue Sidewalks
11. Acadia Parish Pavement Marking Improvements
12. Acadia Parish Street Signing Improvements
13. New Iberia Sidewalk Improvements
14. US 190 at LA 88 Roundabouts & Safety Improvements
15. Eunice East Elementary Sidewalk Improvements
16. Franklin School Sidewalk Improvements
17. Town of Kinder - 13th Street Sidewalk Improvements
18. Town of Vinton - Vinton Street Sign Replacements
19. Napoleonville Safe Routes to Schools Improvements
20. City of Central Rumble Strips & Safety Improvements
21. Zachary Taylor & Marconi Dr Sidewalks Improvements
22. Pearl River Pavement Marking Improvements
23. Independence Street Sign Replacements
24. Tangipahoa Parish Railroad Safety Improvements
25. Bogalusa Pavement Marking Improvements
26. Livingston Parish Railroad Safety Improvements
27. St. John the Baptist Parish Sidewalks - Phase 1
28. St. John the Baptist Parish Sidewalks - Phase 2
29. St. Tammany Parish Signing & Striping
30. Covington Sidewalks & Safety Improvements
31. City of Slidell Pavement Markings
32. St. Tammany Guard Rail Improvements

The Arcadis Team has completed Construction Plans for over 30 Low-Cost Safety Improvement in Louisiana in Districts 02, 03, 07, 61, and 62.

Arcadis Past Performance Review:
LA 88 Roundabouts

"Arcadis is very knowledgeable about DOTD policy and procedures regarding design and submittals. Every submittal has been thorough and timely, with proper documentation."

- Robert Isemann, Project Manager

Sections 12-14

12 DISCIPLINE TABLE:

As indicated in the advertisement, insert a 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 listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). Remove rows as needed.

Discipline(s)	% of Overall Contract	Arcadis	Digital Engineering	Buchart Horn	Each Discipline must total to 100%
Traffic*	50%	75%	15%	10%	**100%**
Planning	25%	70%	20%	10%	**100%**
Road	25%	15%	65%	20%	**100%**
Percent of Contract	**100%**	58.5%	28.5%	13%	**100%**

*Traffic Evaluation Discipline involves both Safety and Traffic services.

13 FIRM SIZE:

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	2	2
	Supervisor Engineer	6	7
	Engineer	2	5
	Engineer Intern	1	4
	Professional	1	1
	Environmental Pro	2	2
	GIS Analyst	1	2
	Environmental Manager	1	1
	CADD Technician	1	1
digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Principal	2	2
	Supervisor-Engineer	1	1
	Engineer	2	2
BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	Principal	2	2
	Supervisor Engineer	1	2
	Engineer	1	1
	Environmental Manager	1	1

14 ORGANIZATIONAL CHART

Principal-in-Charge

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

Project Manager

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

Legend:

Meeting TEPR Requirement *
Workzone Training *
Meeting MPR *

Arcadis[1]
Buchart Horn[2]
Digital Engineering[3]

QA/QC and Technical Advisor

Daniel Magri, PE[2]
Safety

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

James Dickerson[2]
Environmental / Stage 0

Frank Liang, PE, PTOE[3]**
Ped/Bike, Low-Cost Safety Design

Buddy Porta, PE[1]
Roadway

Stage 0 Safety Studies

Ari Deitch, PE, PTOE, PTP, RSP[1]*
Justin Maderia, PE, PTOE, PTP[1]
Max Aguirre, PhD, PE, PTOE, RSP2[1]***
Jonathan Reid, PE, PTOE, RSP[1]
Clara Foshee, PE, PTOE[1]
Jose M. Rodriguez[1]*
Taylor Marino, PE, PTOE, RSP[1]**
David LeBreton, PE, PTOE, PTP, RSP[3]*
Joseph Mingo, PE[2]

Environmental

Jason Morrell, PWS[1]
Jan Hughes[1]
Kimberly Arcement[1]
John Mettille[2]

Road Safety Assessment

Ari Deitch, PE, PTOE, PTP, RSP[1]*
Max Aguirre, PhD, PE, PTOE, RSP2[1]***
Kester Hollier, PE, PTOE[1]**
Justin Maderia, PE, PTOE, PTP[1]*
Jose M. Rodriguez[1]*
Taylor Marino, PE, PTOE, RSP[3]**

Traffic Engineering

Kester Hollier, PE, PTOE[1]*
Ari Deitch, PE, PTOE, PTP, RSP[1]***
Clara Foshee, PE, PTOE[1]
Max Aguirre, PhD, PE, PTOE, RSP2[1]***
Czarina Patolilic, EI[1]

Safety Effectiveness Evaluation

Max Aguirre, PhD, PE, PTOE, RSP2[1]*
Jose M. Rodriguez[1]*
Justin Maderia, PE, PTOE, PTP[1]*

Data Analytics & Visualization / GIS / CADD

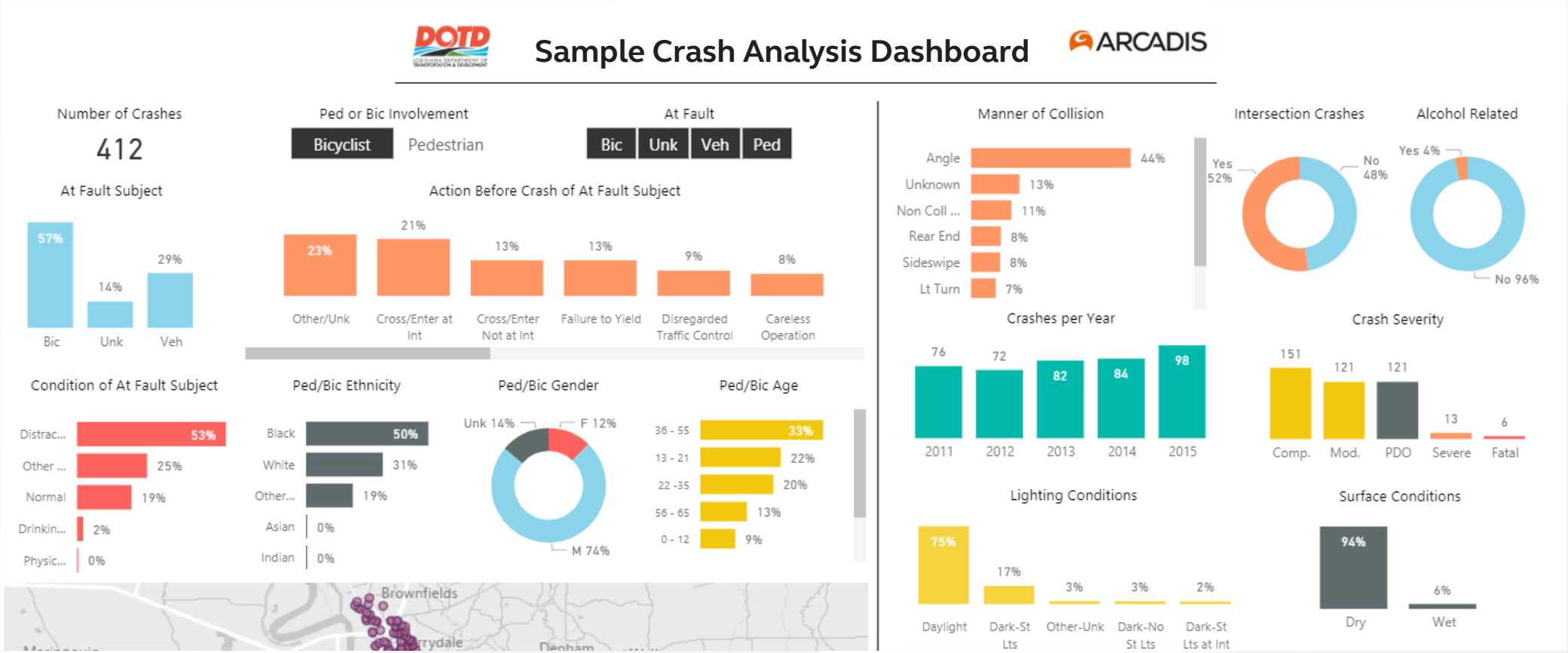
Jose M. Rodriguez, RSP[1]*
Josh Chatelain[1]
Sothon Men[1]

Low-Cost Safety Design

Jose L. Rodriguez, PE[1]*
David Fulks, PE[1]*
Cal Joy, PE[2]*
Joseph Mingo, PE[2]
David LeBreton, PE, PTOE, PTP, RSP[3]*
Stephanie Turner, PE[3]*
Taylor Marino, PE, PTOE, RSP[3]**
Michael Flynn, PE[3]*

Ped / Bike / Complete Streets

Ari Deitch, PE, PTOE, PTP, RSP[1]*
David LeBreton, PE, PTOE, PTP, RSP[3]*
Stephanie Turner, PE[3]*
Taylor Marino, PE, PTOE, RSP[3]**
Michael Flynn, PE[3]*



Arcadis has developed customized interactive dashboards for crash and safety analysis to identify safety trends and issues.

Sections 15-16

Arcadis Past Performance Evaluation:
LA 3235 Stage 0 Safety Feasibility Study

"It is my great pleasure to provide this reference letter for an outstanding performance by Arcadis' staff on this project. From scope development,to project planning, to budget and schedule control, to technical quality and delivery, its execution was flawless. Arcadis went above and beyond to successfully deliver this project and significantly exceeded our expectations, especially through communication and outreach. The success of this project has been showcased in many professional conferences and meetings. I would very strongly recommend Arcadis' safety services, and we look forward to working with them again."

- April Renard, Project Manager, LADOTD

15 MINIMUM PERSONNEL REQUIREMENTS:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Akhil Chauhan, PE, PTOE, PTP, PMP *(>23 years' experience)*	ARCADIS	PE	LA	PE. 33703 / 09/2026
2	Akhil Chauhan, PE, PTOE, PTP, PMP *(>23 years' experience)*	ARCADIS	PE	LA	PE. 33703 / 9/2026
3	David Fulks, PE *(>29 years' experience)*	ARCADIS	PE	LA	PE. 30151 / 9/2026
	Jose L. Rodriguez, PE *(>24 years' experience)*	ARCADIS	PE	LA	PE. 30492 / 3/2027
4	Kester Hollier, PE, PTOE *(>20 years' experience)*	ARCADIS	PE, PTOE	LA, US	PE. 34304 / 3/2027 PTOE: 3928 / 11/2027
	David LeBreton, PE, PTOE, PTP, RSP *(>17 years' experience)*	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	PE, PTOE	LA, US	PE. 37176 / 9/2026 PTOE: 3333 / 11/2027
	Taylor Marino, PE, PTOE, RSP *(>9 years' experience)*	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	PE, PTOE	LA, US	PE. 44447 / 9/2026 PTOE: 5026 / 04/2027
5	Ari Deitch, PE, PTOE, PTP, RSP *(>12 years' experience)*	ARCADIS	PE	LA	PE. 41842 / 03/2026
	Max Aguirre, PhD, PE, PTOE, RSP2[l] *(>6 years' experience)*	ARCADIS	PE	LA	PE.47579 / 09/2025
	Justin Maderia, PE, PTOE, PTP *(>18 years' experience)*	ARCADIS	PE	LA	PE.38492 / 03/2026

16 STAFF EXPERIENCE:

Contract Leadership

16 STAFF EXPERIENCE.

Firm employed by. ARCADIS			Meets MPR No. 1&2
Name	Akhil Chauhan, PE, PTOE, PTP, PMP	Years of relevant experience with this employer	17
Title	Principal Engineer	Years of relevant experience with other employer(s)	5
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. 0033703 / LA / Exp. 09/2026; PTOE 2544 / USA / Exp. 11/2026 PTP 246 / USA / Exp. 12/2027; PMP 1444676 / USA / Exp. 08/2026	
Year registered	2008	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			**Principal-in-Charge / QAQC and Technical Advisor (Traffic)**

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Chauhan is a principal traffic engineer with **22 years of applied research and industry experience** in the fields of **highway safety**, **traffic engineering**, traffic modeling and simulation, **Stage 0 Feasibility Studies**, transportation planning, demand modeling/forecasting, intersection/corridor analysis, **safety studies**, NEPA studies, and access management. Akhil has successfully led, managed, and mentored numerous projects 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 HCS, Vistro, Synchro, SIDRA, Vissim, MITSIM, Dynameq, DynaMIT, TransCAD, Visum, and OREMS. **Mr. Chauhan meets Minimum Personnel Requirement Number 1 & 2.**
12/13 – 06/15	**Safety Studies IDIQ - LA 3235 Stage 0 Feasibility Study, LADOTD, Lafourche Parish, LA.** *Project Manager and Principal Engineer*. Responsible in the preparation of a formal ***traffic and access management Stage 0 study***, in accordance with ***LADOTD Stage 0: Manual of Standard Practice***, that analyzed alternatives and ***enhanced mobility and safety*** on LA 3235. Main tasks included ***traffic data collection***, 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. A ***cost estimate*** and ***conceptual layout drawings*** were also produced.
02/23 – 05/24	**Safety Studies IDIQ - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA.** *Principal Engineer & Technical Advisor*. Responsible for contract management and technical advisory for this Stage 0 Feasibility study to ***develop and evaluate safety countermeasures to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish.*** The study methodology was similar to that of a Road Safety Assessment, and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in ***close coordination with project stakeholders*** including City of Bossier, City of Shreveport, NLCOG, Downtown Development Distriction, and District 04. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documnted in a ***Stage 0 Feasibility Reports*** were completed for all 7 study corridors with ***Preliminary Scope and Budget Checklist and Environmental Checklist. Benefit-cost analysis*** was provided to aid in ***prioritizing the implementation of countermeasures.***
04/16 – 09/18	**Safety Studies IDIQ - New Orleans Pedestrian Improvements, LADOTD, Orleans Parish, LA.** *Principal Engineer*. Preparation of ***Stage 0 pedestrian safety 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*** analysis of existing traffic conditions, ***historic crash data evaluation***, investigation of safety deficiencies at each intersection, ***recommendation of safety improvements*** such as traffic signal improvements, intersection striping improvements, signing improvements, lighting improvements, sidewalk/crosswalk improvements, curb extensions, traffic calming, ADA compliance including curb ramps, and parking modifications, analysis of alternatives and ***conceptual layout development, cost estimates***, and ***Stage 0 checklists***.
12/13 – 05/15	**Safety Studies IDIQ - Joe Sevario / Roddy Road Stage Feasibility Study, LADOTD, Ascension Parish, LA.** *Project Manager and Principal 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 include ***traffic data collection, crash analysis, capacity analysis, safety analysis,*** review of existing pipelines and other municipal utilities, ***alternatives analysis, design development,*** and ***cost estimates*.** Completed ***Stage 0 documentation*** including ***Preliminary Scope and Budget*** and ***Environmental Checklists*.**
02/18 – 06/21	**Safety Studies IDIQ - Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA.** *Principal Engineer.* Responsible for contract management and technical advisory for the project, which involved the development of a Pedestrian and Bicycle Safety Action Plan (PBSAP). Arcadis ***developed screening criteria*** based on crash data and socioeconomic data to identify high priority locations with a history of pedestrian and/or bicycle crashes, and performed ***Road Safety Assessments (RSAs)*** at 10 priority locations to identify safety deficiencies and ***develop safety countermeasures to improve safety for pedestrians and bicyclists.***
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.** *Principal Engineer.* Responsible for contract management and technical advisory of project tasks. Arcadis researched best practices around the country to develop potential alternatives. ***Highway Safety Manual methods*** were applied to ***quantify the safety performance of proposed alternatives***. Traffic analysis was performed using a ***calibrated microsimulation model*** to evaluate the operational performance of HSR and HOV lane alternatives. ***Conceptual drawings*** and ***construction cost estimates*** were developed 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.** *Principal Engineer.* Responsible for contract management and technical advisory for project 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.
02/15 – 08/17	**US 71 Corridor Phase II Traffic and Safety Feasibility Study, LADOTD, Rapides Parish, LA.** *Principal Engineer*. Responsible in the overseeing the preparation of a ***Stage 0 feasibility study*** for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included ***traffic data collection***, warrant studies, ***traffic analysis, safety data analysis***, and development of ***conceptual layouts***. Arcadis developed alternatives for the replacement of the traffic circle on US 71 using a ***data driven, tiered analysis approach***. Alternatives were developed in ***close coordination with District 08 staff*** to better understand project needs and incorporate context sensitive solutions. Completed ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists***.

Firm employed by. ARCADIS			Meets MPR No. 5
Name	Ari Deitch, PE, PTOE, PTP, RSP1	Years of relevant experience with this employer	11
Title	Senior Transportation Engineer / Project Manager	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. 03/2026; PTOE #4346 / USA / Exp. 11/2026 PTP #690 / USA / Exp. 07/2025; RSP #37 / USA / Exp. 12/2027	
Year registered	2018	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Project Manager, Stage 0 Safety Studies, Road Safety Assessment, Traffic Engineering, Ped/Bike/Complete Streets**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Deitch is a Transportation Engineer and **Project Manager specializing in traffic safety, traffic engineering and design**, safety, transportation management, and conceptual roadway design. Mr. Deitch has experience managing and working on projects for LADOTD and the City of Baton Rouge, as well as other DOTs across the country, pertaining to **Stage 0 feasibility studies**, transportation management plans, traffic, and **safety studies**, NEPA studies, **ped/bike improvements**, access management, signal design, and signing/marking design. He has experience and proficiency in IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS and MicroStation software. **Mr. Deitch meets Minimum Personnel Requirement Number 4 and 5.**
02/23 – 05/24	**Safety Studies IDIQ - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA.** *Project Manager*. Responsible for contract management and technical advisory for this Stage 0 Feasibility study to ***develop and evaluate safety countermeasures to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish***. The study methodology was similar to that of a Road Safety Assessment, and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in close coordination with project stakeholders including City of Bossier, City of Shreveport, NLCOG, Downtown Development Distriction, and District 04. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documnted in a ***Stage 0 Feasibility Reports*** were completed for all 7 study corridors with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.*** Performed ***benefit-cost analysis*** to aid in prioritizing the implementation of countermeasures.
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.
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 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 analysis***, and ***conceptual design drawings***. Purpose was to identify ***feasible improvement alternatives*** to address safety issues along the I-49 corridor at 3 interchanges. Participated in meetings with LADOTD HQ and District 03 team members to understand project needs and develop context sensitive solutions.
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, 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 corridor. Safety performance of alternatives were estimated using ***Highways Safety Manual predictive methods***.
03/18 – 06/21	**Safety Studies IDIQ - Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer.* Responsible for assessing 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. Participated in ***Road Safety Audits (RSAs)*** at 10 priority locations to identify and evaluate safety deficiencies and ***develop safety countermeasures*** to ***improve safety for pedestrians and bicyclists***.
10/18 – 03/21	**Safety Studies IDIQ - LA 3040 Corridor Improvements, LADOTD, Houma, LA.** *Senior Traffic Engineer.* Study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to ***evaluate reasonable alternatives to address any deficiencies discovered***. Arcadis performed traffic analysis using Highway Capacity Software in accordance with LADOTD TEPR Requirement.
04/21 – 06/22	**Louisiana Strategic Highway Safety Plan Update, LADOTD, Statewide, LA.** *Project Manager.* Responsible for managing project tasks and deliverables that Arcadis is responsible for and ensuring QAQC protocols are performed. Arcadis is performing all ***crash data analysis*** tasks for the ***SHSP update***, including a ***statistical analysis of existing emphasis areas*** and evaluating potential modifications to emphasis areas.
01/19 – 05/20	**Safety Design IDIQ - US 90 Ramps at LA 88 Roundabouts, Iberia Parish, Louisiana.** *Transportation Engineer.* Assisted with permanent signing and striping components of ***roadway safety design plans*** for proposed roundabouts.
02/15 – 08/17	**US 71 Corridor Phase II Traffic and Safety Study, LADOTD; Rapides Parish, LA.** *Traffic Engineer.* Responsible for providing ***traffic data collection***, warrant studies, ***traffic analysis, safety data analysis***, and development of ***conceptual layouts***. Played a key role in the development of ***feasible alternatives*** to replace the existing traffic circle. Responsible for the development of ***conceptual design drawings*** and ***construction cost estimates*** for proposed alternatives. Assisted with the completion of ***Stage 0 documentation*** including ***Preliminary Scope and Budge and Environmental Checklists***.
08/19 – 02/20	**US 61 Access Management and Corridor Improvements (Airline Hwy), 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 with the development of ***construction cost estimates*** and ***benefit-cost analysis*** to compare the effectiveness of proposed alternatives.

16 STAFF EXPERIENCE:

Safety and Traffic Engineers

Firm employed by. ARCADIS				Meets MPR No. 5
Name	Justin Maderia, PE, PTOE, PTP		Years of relevant experience with this employer	18
Title	Senior Transportation 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 / 03/31/2026; PTOE #3455 / USA / 07/01/2027; PTP #604 / 07/01/2026	
Year registered	2013	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			**Stage 0 Safety Studies, Road Safety Assessments, Safety Effectiveness Evaluation**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Maderia's experience in transportation engineering includes a range of services, such as project engineer responsible for **safety studies**, **feasibility studies**, traffic flow/demand modeling, spot speed studies, micro-simulation modeling, and traffic noise 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. He has also served as the project engineer responsible for the design of highway projects. Specific design experience includes maintenance of traffic design, traffic control plan design, roadway geometry, horizontal and vertical alignment design. His software program experience includes IHSDM, AutoCAD, MicroStation, Geopak, AutoTurn, SignCAD, GIS, TNM, CORSIM, VISSIM, HCS and all Microsoft Office Applications. **Mr. Maderia meets Minimum Personnel Requirement Number 5.**
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 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.
03/16 – 07/18	**Safety Studies IDIQ - I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA.** *Traffic 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.
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, 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 corridor. Safety performance of alternatives were estimated using ***Highways Safety Manual predictive methods***.
04/21 – 06/22	**Louisiana Strategic Highway Safety Plan Update, LADOTD, Statewide, LA.** *Senior Safety Analyst*. Responsible for QAQC of ***crash data analysis*** tasks for the ***SHSP update***, including ***statistical analysis of existing emphasis areas*** and evaluating modifications to emphasis areas.

01/14 – 02/17	**US 71 Corridor Phase I Traffic and Safety Feasibility Study, LADOTD, Rapides Parish, Louisiana.** *Traffic Engineer*. Responsible for independent review of traffic and ***safety analysis***, VISSIM animations, and final ***Stage 0 documentation***. Purpose of the project was to identify operational and safety needs and ***determine the safety effectiveness of alternative concepts*** that incorporated innovative intersections, roundabouts, frontage road improvements, and signal timing improvements.
02/15 – 08/17	**US 71 Corridor Phase II Traffic and Safety Feasibility Study, LADOTD; Rapides Parish, LA.** *Traffic Engineer.* Responsible for providing ***traffic data collection***, warrant studies, ***traffic analysis, safety data analysis***, and development of ***conceptual layouts***. Assisted with the completion of ***Stage 0 documentation*** including ***Preliminary Scope and Budge and Environmental Checklists***.
02/15 – 08/17	**Evangeline Thruway, Johnston St, & Louisiana Ave. Traffic and Safety Feasibility Study, LADOTD, Lafayette Parish, Louisiana**. *Traffic 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 the ***operational and safety effectiveness of alternatives***.
11/20 – Ongoing	**I-10 CMAR, LADOTD, East Baton Rouge Parish, LA.** *Traffic Engineer.* Responsible for traffic engineering tasks related to the development of ***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.
04/16 – Ongoing	**Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Livingston Parish, LA.** *Traffic Engineer.* Responsible for assisting with traffic signal timing analysis tasks including volume development / projections, origin-destination study, VISSIM model development and calibration, and noise analysis. 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.
09/17 – Ongoing	**Safety Study Task Order Contracts, ODOT, Statewide, Ohio.** *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***, applying for safety funding from ODOT, and presenting the project to ODOT's Office of Program Management for the chance to be awarded safety funding.

Firm employed by. ARCADIS			Meets MPR No. 5
Name	Max Aguirre, PhD, PE, PTOE, RSP2I	Years of relevant experience with this employer	6
Title	Transportation 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		Professional Engineer – LA / PE.0047579 09/2025; PTOE #5291 / USA / Exp. 7/2025; RSP2I #182 / USA / Exp. 7/2027	
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Stage 0 Safety Studies, Road Safety Assessments, Safety Effectiveness Evaluation, Traffic Engineering**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Dr. Aguirre is a Professional Engineer specializing in traffic engineering studies and design. Dr. Aguirre has experience working on projects for Louisiana Department of Transportation and Development (LADOTD) pertaining to traffic and **safety studies, Stage 0 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 **Interactive Highway Safety Design Model**, SYNCHRO, **Highway Safety Software (HSS)**, GuidSIGN, HCS and MicroStation software. **Dr. Aguirre Meets Minimum Personnel Requirement Number 5.**
02/23 – 05/24	**Safety Studies IDIQ - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA.** *Traffic Engineer*. Responsible for conducting all traffic and safety tasks needed for this Stage 0 Feasibility study to ***develop and evaluate safety countermeasures to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish***. The study methodology was similar to that of a ***Road Safety Assessment***, and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in close coordination with project stakeholders including City of Bossier, City of Shreveport, NLCOG, Downtown Development Distriction, and District 04. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documnted in a ***Stage 0 Feasibility Reports*** were completed for all 7 study corridors with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.*** Performed ***benefit-cost analysis*** to aid in prioritizing the implementation of countermeasures.
10/18 – 03/21	**Safety Studies IDIQ - LA 3040 Corridor Improvements, LADOTD, Houma, LA.** *Traffic Engineer.* Study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to ***evaluate reasonable alternatives to address safety and operational needs***. Responsible for performing traffic analysis using Highway Capacity Software in accordance with LADOTD TEPR Requirement.
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 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. Assisted in the development of ***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. Evaluated alternatives to ***determine and document the feasibility of proposed countermeasures***. Developed ***benefit-cost analysis*** to prioritize implementation of proposed improvements.
10/19 – 07/21	**I-10 New Orleans to Slidell Hard Shoulder Running Feasibility Study, LADOTD, Orleans Parish, LA.** *Traffic 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. Developed conceptual drawings and typical sections, ***crash analysis,*** and ***predictive safety analysis*** for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell. Developed benefit-cost analysis for ***Preliminary Scope and Budget*** and ***Environmental Checklists***.
08/19 – 02/20	**US 61 Access Management and Corridor Improvements (Airline Hwy), 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.
02/23 - Ongoing	**Stage 0 Feasibility Study and Design - Cross Bayou Bridge Replacement, LADOTD, Caddo Parish, LA.** *Traffic Engineer.* Conducted ***Stage 0 Feasibility study*** to develop and evaluate alternatives for the replacement of two existing bridges over Cross Bayou. Developed ***Stage 0 Documentation*** including ***Preliminary Scope and Budget*** and ***Environmental Checklists***. The next phase of the project will be conducted under the same contract and will include the development of construction plans.
11/20 – Ongoing	**I-10 CMAR, LADOTD, East Baton Rouge Parish, LA.** *Traffic 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***.
09/19 – Ongoing	**I-49 (Ricohoc to Berwick) Supplemental Environmental Impact Assessment, LADOTD, St. Mary Parish, LA.** *Traffic Engineer*. Assist in project tasks involving planning and evaluation of different ***interchange alternatives*** and their ***geometric design, socio-economic impacts, mobility impacts, and environmental impacts***.

Firm employed by. ARCADIS			
Name	Jonathan Reid, PE, PTOE, RSP1	Years of relevant experience with this employer	8
Title	Senior Transportation 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, PE #027930 / NC PTOE #1588 / USA / Exp. 03/2026 RSP #104 / USA / Exp. 12/2027		
Year registered	2008	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	**Stage 0 Safety Studies**		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Reid has more than **20 years of experience in the transportation field**. His background includes traffic modeling, intersection design, managed-lane facilities planning, **feasibility studies, safety studies and design, Road Safety Assessments**, corridor 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 ***safety 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***, and evaluation of concept using ***Highway Safety Manual methods***.
06/15 – 06/20	**Safety Project Identification & Evaluation Phase I, Georgia Department of Transportation, Statewide, Georgia.** *Traffic Engineer.* Support role in the development of ***safety 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*** 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.
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.

05/16 – 05/21	**Traffic Safety Design Services, Region B, (Districts 3 & 6), GDOT, Georgia.** *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 – 07/23	**Feasibility Studies Limited Services Contract for NCDOT.** *Project Manager*. Responsible for managing team in providing array of services including ***traffic 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, Georgia.** *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. VISSM simulation model results showed a 75% reduction in travel delay and a 25% increase in intersection capacity without any substantial right-of-way requirements.
07/07 – 10/08	**I-75 NW Corridor Draft Environmental Impact Study, GDOT, Cobb and Cherokee Counties, Georgia.** *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 ***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, Georgia.** *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	Jose M. Rodriguez	Years of relevant experience with this employer	10
Title	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	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	**Stage 0 Studies, RSAs, Safety Effectiveness Evaluation, Data Analytics & Visualization**		

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 **safety studies, 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.
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.
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***.
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 Assessments (RSA's)*** at the 10 priority locations to ***identify safety issues and develop feasible alternatives to improve pedestrian and bicycle safety***. The RSA results were used to develop ***Stage 0 Documentation and Checklists***.
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***.
04/21 – 06/22	**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.
03/17 – 08/17	**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***.
08/19 – 02/20	**US 61 Access Management and Corridor Improvements (Airline Hwy), LADOTD, East Baton Rouge Parish, LA.** *Safety Analyst.* 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 with the safety assessment of build alterntive using ***Crash Modifcation Factors (CMFs)*** to predict the impact of access management.
08/19 – 06/22	**District 8 Systemic Safety Project, Pedestrians, Ohio Department of Transportation and Development, 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 – 06/22	**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. ARCADIS				Meets MPR No. 4
Name	Kester Hollier, PE, PTOE		Years of relevant experience with this employer	4
Title	Senior Transportation 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. 03/2027; PTOE #3928 / USA / Exp. 11/2027	
Year registered	2009	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			**Traffic Engineering, Road Safety Assessments**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Hollier possesses a wide breadth of experience in the field of transportation engineering including **traffic engineering**, signal timing and design, roadway design, complete street improvement projects, **roadway safety analysis and design**, 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. He has experience and proficiency in **traffic engineering and safety analysis software** including IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS and MicroStation software. **Mr. Hollier meets Minimum Personnel Requirement Number 4.**
07/21 – 07/22	**Safety Studies IDIQ – US 61: Cardinal Drive to Bert Street Safety Improvements, LADOTD, St. John the Baptist Parish, LA.** *Traffic Engineer*. Assisted with the development of a ***Stage 0 Feasibility and Safety Study*** for the US 61 Corridor in LaPlace, LA. Responsible for ***traffic and safety analysis*** tasks for existing, no-build, and build conditions. Analyis was performed using HCS. Purpose of the study was the ***develop and evaluate feasible alternatives*** that would address operational and safety needs along the corridor.
11/20 – Ongoing	**I-10 CMAR, 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.
11/17 – 07/20	**Stage 0 Feasibility Study - LA 466 (5th Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA.** *Project Manager / 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.

09/12 – 02/16	**Feasibility Study and Stage 1 EA for Replacing Belle Chasse Tunnel and Bridge, LADOTD, Plaquemines Parish, LA.** *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***.
06/13 – 04/14	**Stage 0 Feasibility Study – US 190 Roundabout and Ped Improvements, 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.
12/17 – 11/19	**Stage 0 Feasibility Study - Causeway Boulevard Widening, Jefferson Parish, LA.** *Project Manager / Traffic Engineer*. Responsible for the ***traffic and safety study*** for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in Jefferson Parish, LA. Tasks included ***data collection***, traffic volume redistribution, left-turn placement and turn bay storage length, and existing traffic analysis and future traffic analysis of a preferred alternative.
05/14 – 08/20	**Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA.** *Traffic/Civil 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.
10/18 – 01/19	**LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA.** *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.

Firm employed by: digital engineering			Meets MPR No. 4
Name	David G. LeBreton, P.E., PTOE, PTP, RSP1	Years of relevant experience with this employer	17
Title	Principal Transportation Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2007 / Civil Engineering	
Active registration number / state / expiration date		PE.0037176 / LA / Exp. 09/30/26; PTOE #3333/ USA / Exp. 11/2027; PTP #661 / Exp. 03/28; RSP #314 / Exp. 07/25;	
Year registered	2012	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Stage 0 Studes (Safety), Low-Cost Safety Design, Ped/Bike/Complete Streets**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. LeBreton offers 14 years of experiences with **safety studies and design**, **traffic analysis**, **traffic operations**, **roadway and drainage design**, and construction phase services. David has performed studies, design, and/or construction engineering and inspection on 48 LADOTD/LPA Projects through the Safe Routes to School (SRTS), Safe Routes to Public Places (SRTPPP), and Local Road Safety Programs (LRSP) throughout the state, in both rural and urban areas. David completed training including LADOTD SIDRA Intersection and Roundabout Analysis Update Workshop; RPC/LDOTD Designing Streets for Pedestrian and Bicycles Workshop. He is proficient with AASHTO's Guide for the Development of Bicycle Facilities, MUTCD, ADA and LADOTD requirements. **Mr. LeBreton Meets Minimum Personnel Requirement Number 4.**
11/17 – 09/21	**Safe Routes to Schools Program - New Orleans DPW SRTS Sidewalk Project and Multi-Modal Safety Improvements, LADOTD, New Orleans, LA.** *Project Manager* for this ***pedestrian enhancement, sidewalk, signing and pavemnet marking, and road safety project***. Responsible for the overall project management, QA/QC, budgeting, and scheduling for this contract. The scope of this project consists of the development of a feasibility study and ***engineering plans and non-standard specifications*** for the installation of 5' concrete sidewalks, 10' wide multi-use paths, road diet bike lanes, HAWK Pedestrian Hybrid Beacon, solar powered school zone flashing beacon, ***ADA compliant curb ramps and pedestrian crosswalks***, and pedestrian countdown signal heads with accessible pedestrian pushbuttons.
04/12 – 04/19	**Gretna Sidewalks and Safety Improvements, LADOTD, Gretna, LA.** *Engineer of Record/Project Manager* for this ***pedestrian enhancement, sidewalk, and road safety improvement project***. He was responsible for overall project management, QA/QC, budgeting, and scheduling for development of a feasibility study and ***engineering plans and non-standard specifications*** for the installation and/or relocation of concrete sidewalks and crosswalks to allow for continuous pedestrian access to a number of schools within the City of Gretna.
06/16 – 10/18	**Audubon Avenue and Ardoyne Drive Mini Roundabout, LADOTD, Thibodaux, LA.** *Engineer of Record/Project Manager* for this Local Road Safety Program ***road safety improvement project***. The feasibility study, design of the improvements (sidewalks, ADA accessible curb ramps, cross walks, and signage and striping, etc.), geometric layout, quantity takeoffs, ***plan preparation***, development of ***technical specifications*** (TS), development of the QA/QC and constructability and biddability forms were performed under David's direct supervision. The scope of this project involved the ***installation of a new mini-roundabout*** at the intersection of Audubon Avenue and Ardoyne Drive.
11/17 – 11/24	**Stage 0 Feasibility Study and Design – W. Judge Perez Road, NORPC, St. Bernard Parish, LA.** *Senior Project Manager and QA/QC Manager* on feasibility study for NORPC to identify alternatives along the W Judge Perez Drive (LA 39) corridor

	between Rowley Boulevard and Pakenham Drive to improve safety for all users with emphasis on non- motorized traffic safety. He was responsible for the oversight of planning and engineering of the site investigations, data collections, preliminary drawing layouts, ***cost estimating***, ***Stage 0 Environmental and Budget Checklist***, and final report. The project also included the developement of ***preliminary and final design plans*** for propsoed safety improvements.
09/17 – 12/21	**Bootlegger Road Shared Use Path, St. Tammany Parish, LA.** *QA/QC Manager* for Stage 0 Feasibility Study, ***project design***, budgeting, and ***cost estimating*** for this contract involving alternatives of a 6' wide sidewalk on the north side of Bootlegger Road or a 10' wide shared use path on the south side of the road. This sidewalk will ***safely connect neighborhoods to the existing park and school*** and is part of a phasing plan that will ultimately connect LA1077 to Ochsner Boulevard. Ultimately the north sidewalk was chosen as the feasibility study determined the south option not constructible within the project budget.
10/17 – 06/18	**Stage 0 Feasibility Study- Selected Corridors Hammond, LA.** *QAQC Manager* for a Feasibility Study for the selected corridors that focused on accessibility and connectivity improvements such as sidewalk replacements, ***addressing non-compliant ADA handicapped curbs and ramps***, bike lane markings, and shared lane markings. Conceptual Plans, Cost Estimates, Stage 0 Environmental and Budget Checklists were performed as part of the ultimate Study. These improvements were part of the City of ***Hammond's Bicycle/Pedestrian Master Plan***.
06/11 – 03/14	**Thibodaux Traffic Study, LADOTD, Thibodaux, LA**. *Project Engineer* for this ***traffic study*** including twenty-four-hour traffic counts that were taken along all roadways in the study area as well as peak hour AM and PM turning movement counts that were also taken at the Canal and 7th Street intersection in Thibodeaux. David also performed field assessments to document parking patterns and to help determine a solution for downtown Thibodaux's on street parking problems.
08/09 – 07/12	**Loyola Drive Right Turn Lane at I-10, LADOTD, Kenner, LA.** *Project Engineer* for the design of an exclusive right turn lane onto I-10 westbound by widening Loyola Drive. The project involved the relocation of a median U-turn, a ***signal warrant analysis*** at Loyola Drive and I-10, and the preparation of Categorical Exclusion paperwork.
04/13 – 04/16	**Retainer Contract for Statewide Traffic Counts, LADOTD, Districts 03, 07 and 08.** *Project Manager* providing ***traffic and transportation analyses*** at proposed sites throughout the State of Louisiana for a 3-year period. Types of counts to be provided include: 7 day, 24-Hour Counts (non-interstate); 7-day, 24-Hour Counts (interstate) (4 or 6 lanes); 24-Hour Traffic Counts; 48-Hour Traffic Counts; Turning Movement Counts (Peak Hour Counts); Turning Movement Counts (Non-Peak Hour Counts); 15 Minute Counts with Demand Volumes Included (Peak/Non-Peak Hour Counts); Speed Studies; ***Warrant Analysis.***

Firm employed by: digital engineering				Meets MPR No. 4
Name	Taylor Marino, P.E., PTOE, RSP1		Years of relevant experience with this employer	9
Title	Transportation Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2015 / Civil Engineering		
Active registration number / state / expiration date		PE.44447 / LA / Exp. 09/26; PTOE #5026 / LA / Exp. 04/27; RSP1 #810 / LA / Exp. 03/28;		
Year registered	2020	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		**Low-Cost Safety Design, Ped/Bike/Complete Streets, Stage 0 Safety Studies, RSAs**		

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Marino is a Transportation Engineer performing **roadway design including low-cost safety design and pedestrian facility design**, **traffic impact analysis** and **traffic signal design**. His experience includes scoping, cost estimation and construction scheduling. To date, Taylor has provided project engineering for studies, design, and/or construction engineering and inspection on 27 LADOTD/LPA Projects through the **Safe Routes to School (SRTS), Safe Routes to Public Places (SRTPPP), and Local Road Safety Programs (LRSP)** throughout the state, in both rural and urban areas. He is proficient with AASHTO, MUTCD and LADOTD requirements.
07/22 –10/23	**US167-Camellia Blvd-Churchill Drive, LADOTD, Lafayette Parish, LA.** *Transportation Engineer. Responsible* for the ***design of pedestrian enhancements, sidewalks, signing and pavement markings***. Taylor developed project concepts, quantity take-offs, ***cost estimating***, and provided client/LPA coordination for the construction of sidewalks and ADA compliant handicapped curbed ramps, crosswalks, pedestrian signals and audible push buttons. A ***pedestrian traffic study*** was conducted as part of this safety design project in order to investigate the marked crosswalks warrants needed to stripe the crossings of a state route.
09/17 – 12/21	**Local Road Safety Program - Bootlegger Road Shared Use Path, St. Tammany Parish, LA.** *Transportation Engineer.* Responsible for ***Stage 0 Feasibility Study***, ***project design***, cost estimating, and scheduling for this contract involving alternatives of a 6' wide sidewalk on the north side of Bootlegger Road or a 10' wide ***shared use path*** on the south side of the road. This sidewalk will connect neighborhoods to the existing park and school and is part of a phasing plan that will ultimately connect LA1077 to Ochsner Boulevard. Ultimately the north sidewalk was chosen as the feasibility study determined the south option not constructible within the project budget. Developed ***final design plans*** for the proposed ***pedestrian safety improvements***.
09/18 – 09/21	**Safe Routes to Schools - New Orleans DPW SRTS Sidewalk Project and Multi-modal Safety Improvements, New Orleans, LA.** *Transportation Engineer.* Responsible for the ***design of pedestrian enhancement, traffic analysis, sidewalk, signing, and pavement marking***. The road safety improvement project included the feasibility report, design, ***cost estimation***, and scheduling. Developed a feasibility study and engineering plans and non-standard specifications for the installation of 5' concrete sidewalks, 10' wide multi-use paths, road diet bike lanes, ***HAWK Pedestrian Hybrid Beacon***, solar powered school zone flashing beacon, ADA compliant curb ramps and pedestrian crosswalks, and pedestrian countdown signal heads with accessible pedestrian pushbuttons.
01/20 – 11/24	**Stage 0 Feasibility Study and Design – W. Judge Perez Road, NORPC, St. Bernard Parish, LA.** *Transportation Engineer*. Feasibility study for NORPC to identify alternatives along the W. Judge Perez Drive (LA 39) corridor between Rowley Boulevard

	and Pakenham Drive to ***improve safety for all users with emphasis on non-motorized traffic safety***. Responsible for the oversight of planning and engineering of the site investigations, data collection, ***traffic analysis***, preliminary ***drawing layouts***, ***cost estimating***, and final report. The project also included the developement of ***preliminary and final design plans*** for propsoed safety improvements.
10/17 – 06/18	**Stage 0 Feasibility Study – Selected Corridors, LADOTD, Hammond, LA**. *Engineer Intern.* Engineer Intern for a ***feasibility study*** for the selected corridors that focused on ***accessibility and connectivity improvements*** such as sidewalk replacements, addressing non-compliant ADA handicapped curbs and ramps, bike lane markings, and shared lane markings. These improvements were part of the City of Hammond's Bicycle/Pedestrian Master Plan. Conceptual Plans, ***Cost Estimates***, ***Stage 0 Environmental and Budget Checklists*** were performed as part of the ultimate Study.
01/17 – 03/19	**Safe Routes to School Program, Covington Sidewalks & Other Safety Improvements, Covington, LA.** *Transportation Engineer.* for ***project design***, ***cost estimation,*** and CE&I for this contract involving the addition of ***ADA compliant sidewalk*** from Pine View Middle School to N. Columbia St. to provide safe access for pedestrians to school. The project will require closing in existing ditches when the sidewalk will be placed and upgrading existing ramps and sidewalk to ADA compliance. All work was performed in ***accordance with MUTCD and LADOTD requirements***.
10/18 – 04/19	**Stage 0 Feasibility Study - Selected Corridors, LADOTD, Covington, LA.** *Engineer Intern.* Responsible for developing a ***feasibility study*** to identify improvements along the corridors to ***enhance safety and operational efficiency*** for all users of the roadways with a ***focus on bike and pedestrian access***. He provided support in provided conceptual design and cost estimates for geometric, signage/striping, and other proposed physical improvements consistent with the latest ***RPC/LADOTD Access Management and Complete Streets policies.***
11/18 –11/23	**Safe Routes to Public Places - Gretna Downtown Intersection, LADOTD, Gretna, LA.** *Transportation Engineer.* Responsible for the ***design of pedestrian enhancements, sidewalks, signing and pavement markings***. He developed project concepts, quantity take-offs, ***cost estimating***, and provided client/LPA coordination for this SRTPP project involving the replacement of existing sidewalk with new sidewalks and ADA compliant handicapped curbed ramp, along with bulb outs at some the intersections to improve parking and decrease pedestrian walking lengths. This project also includes the ***reconstruction of traffic signal systems*** at two intersections, as well as the removal of span wire signals and replacement with mast arms. A pedestrian traffic study was conducted to investigate the marked crosswalks warrants needed to stripe the crossings of a state route and a pedestrian signal and audible push buttons are also proposed.

Firm employed by. ARCADIS

Name	Clara Foshee, PE, PTOE	Years of relevant experience with this employer	1
Title	Transportation Engineer	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		BS / 2015 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date		PE.0044568 / LA / Exp. 09/2026; PTOE #5800 / LA / 11/2027	
Year registered	2020	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Stage 0 Safety Studies, Traffic Engineering**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Foshee is a Transportation Engineer specializing in traffic safety, **traffic engineering and design**, transportation management, and conceptual roadway design. Ms. Foshee has experience working on a range of transportation projects for LADOTD and various local municipalities pertaining to traffic and safety studies, corridor and intersection studies, access management, and pedestrian and bicycle improvements. She has experience with Highway Safety Manual and Highway Capacity Manual methods and is proficient in HCS, Synchro, and Sidra analysis software. **Ms. Foshee has completed the LADOTD Traffic Engineering Process and Report Training.**
03/22 – 07/23	**Morrison Road (Mayo – Bullard) Road Improvement Study, City of New Orleans / LADOTD; Orleans Parish, LA.** *Project Manager and Traffic Engineer*. Responsible for overseeing and managing project tasks including traffic data collection and analysis, warrant studies, traffic operational analysis, safety analysis, alternative and countermeasure development, and conceptual drawings.
04/23 – 07/23	**Distribution Center Traffic Impact Study, LADOTD; Ouachita Parish, LA.** *Project Manager and Traffic Engineer*. Responsible for overseeing and managing project tasks including traffic data collection and analysis, warrant studies, safety analysis, predictive traffic routing, traffic operational analysis, and alternative and countermeasure development.
10/19 – 07/20	**LA 1065 at LA 3234 Intersection Control Evaluation, LADOTD; Tangipahoa Parish, LA.** *Traffic Engineer Intern*. Performed project tasks including traffic data collection and analysis, warrant studies, safety analysis, traffic operational analysis, and alternative development and analysis.
06/18 – 03/20	**LA 445 at Interstate 12 Safety Assessment, LADOTD; Tangipahoa Parish, LA.** *Traffic Engineer Intern*. Performed project tasks focused on assessing safety operations of existing interchange and developing appropriate countermeasures to improve safety for motorists.
10/19 – 07/20	**LA 437 at Wymer/Planche Intersection Control Evaluation, LADOTD; St. Tammany Parish, LA.** *Traffic Engineer Intern*. Performed project tasks including traffic data collection and analysis, warrant studies, safety analysis, traffic operational analysis, and alternative development and analysis.
02/17 – 10/18	**LA 22 at LA 21 / LA 1077 Roundabout Study, LADOTD; St. Tammany Parish, LA.** *Traffic Engineer Intern*. Performed project tasks including extensive traffic data collection and analysis, warrant studies, safety analysis, predictive traffic routing, traffic operational analysis, and alternative development and analysis.
04/16 – 06/16	**LA 436 Road Safety Assessment, LADOTD; Washington Parish, LA.** *Traffic Engineer Intern*. Attended project condition assessment and performed project tasks focused on assessing safety operations of existing roadway and developing countermeasures to improve safety for all users.

Firm employed by. ARCADIS			
Name	Czarina Patolilic, EI	Years of relevant experience with this employer	1
Title	Traffic Engineer Intern	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization		BS / 2012 / Biological Engineering, Louisiana State University	
Active registration number / state / expiration date		EI.0031230 / LA / Exp. 03/2027	
Year registered	2012	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Traffic Engineering**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Patolilic possesses over 10 years of experience in the field of **traffic engineering**. She has experience working on a wide range of transportation projects for LADOTD pertaining to **traffic and safety studies**, corridor and intersection studies, access management, **Stage 0 feasibility studies,** transportation management plans, NEPA studies. She has experience with Synchro, Vistro, VISSIM, SIDRA, and MicroStation software. **Ms. Patolilic has completed the LADOTD Traffic Engineering Process and Report Training**.
03/22 – 08/23	**LA 30 from St. Anthony Ave to LA 44 Traffic Feasibility Study, City of Gonzales, Ascension Parish, LA.** *Traffic Engineer*. Responsible for the ***development of the traffic report*** for the LA 30 corridor study area that addressed congestion and ***safety concerns resulting from an increase in traffic volume from developments***. Managed the ***data collection process and peak period observations*** to determine existing traffic patterns as well as the ***safety analysis along the corridor***. Performed the ***traffic analysis*** for existing, no build, and future traffic conditions using Synchro and SIDRA to determine a preferred alternative which included ***access management strategies*** as well as roadway and intersection improvements. Also, developed potential implementation phasing for the proposed alternative.
07/15 – 11/17	**I-10 at LA 42 IMR, LADOTD, East Baton Rouge Parish, LA.** *Task Manager*. Responsible for reviewing the submittals of the Interchange Modification report for the interchange improvements at the LA 42 interchange at Interstate 10. Specifically, ***reviewed and aided in the development of interchange alternatives*** using VISSIM that would improve existing capacity issues that included excessive queuing along LA 42 as well as the I-10 eastbound off ramp.
12/20 – 09/23	**LA 621 Realignment Mitigation – LA 73: from Norris Trail to C. Braud and LA 621 from LA 73 to L Landry Road, LADOTD, Ascension Parish, LA.** *Task Manager*. Responsible for reviewing the submittals of the traffic study for LA 73 from Norris Trail to C. Braud Rd and LA 621 from LA 73 to L Landry Rd to ensure that the mitigation of the realignment of LA 621 will not cause adverse effects to the area while applying ***access management principles.*** Other mitigation goals involved ***improving access for pedestrians/cyclists and intersection/signal improvements***. Continued on to assist in the development of additional alternative modifications that ensure no adverse effects to the nearby Hollows of Dutchtown Subdivision.
04/18 – 02/20	**Stage 0 Feasibility Study - I-10 from LA 73 to LA 429, LADOTD, Ascension Parish, LA.** *Task Manager*. Responsible for reviewing the submittals of the ***traffic study*** for interchange improvements at the three locations of LA 73, LA 74, and LA 429 in Ascension, LA. Submittals included, ***data collection***, build volume methodology, ***existing safety analysis***, existing and no build ***traffic analysis*** with VISSIM, and a high-level interchange alternative analysis.

16 STAFF EXPERIENCE:

Low-Cost Safety Design Engineers

Firm employed by. ARCADIS				Meets MPR No. 3
Name	Jose L. Rodriguez, PE		Years of relevant experience with this employer	3
Title	Senior Roadway 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. 03/2027	
Year registered	2003	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			**Low-Cost Safety Design**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Rodriguez has more than 26 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, **cost estimating**, and project implementation for various clients in the states of Louisiana, Texas, Georgia, and North Carolina. Worked in close relationship with the Louisiana Department of Transportation, City of New Orleans Department of Public Works, New Orleans Sewer and Water Board, Plaquemines Parish, Jefferson Parish, St. Bernard Parish, U.S. Army Corps of Engineers, New Orleans Regional Planning Commission. Experience includes a wide range of project applications including **Stage 0 feasibility and safety studies**, **safety design**, environmental assessments, and design projects. Extensive experience in Inroads, Autodesk Civil 3d, Leap Bridge for Concrete Bridge Design, and Excel Spread Sheets. Served on the American Concrete Institute (ACI) Louisiana Board, becoming president of the Louisiana Chapter in 2010. **Mr. Rodriguez meets Minimum Personnel Requirement Number 3.**
02/23 – 05/24	**Safety Studies IDIQ - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA.** *Lead Roadway Engineer*. Responsible for contract management and technical advisory for this Stage 0 Feasibility study to develop and evaluate ***safety countermeasures to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish***. The study methodology was similar to that of a Road Safety Assessment, and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in close coordination with project stakeholders including City of Bossier, City of Shreveport, NLCOG, Downtown Development Distriction, and District 04. Mr Rodriguez was responsible for developing ***conceptual desing drawings***, ***ROW and utility impacts***, and ***cost estimates*** for propsoed alternatives. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documnted in a ***Stage 0 Feasibility Reports*** were completed for all 7 study corridors with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.*** Benefit-cost analysis was provided to aid in prioritizing the implementation of countermeasures.
04/23 – 01/25	**Stage 0 Studies IDIQ – LA 22 Tchefuncte River Bridge, LADOTD, St. Tammany Parish, LA.** *Lead Roadway Engineer*. Responsible for ***preliminary roadway and drainage design*** for a ***Stage 0 Feasibility Study*** to develop and evaluate feasible alternatives for the replacement of the LA 22 Tchefuncte River Bridge in Madisonville, LA. The bridge has a high frequency of opening due to marine traffic and low elevation above the river. Arcadis developed several bridge alternatives including fixed and moveable bridge options. Alternatives were evaluated with respect to ***construction cost***, ***ROW***, traffic and safety, and environmental. All study methods and results were documented in a ***Stage 0 Feasibility Report*** with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.***

01/08 – 05/08	**Stage 0 Feasibility Study - I-12 to Bush Corridor Study Phase III, LADOTD, St. Tammany Parish (STP), LA.** *Roadway Designer.* Responsible for ***evaluating environmental issues and developing design alternatives*** in accordance with the ***National Environmental Policy Act (NEPA)*** for transportation improvements.
05/12 – 12/15	**Earhart Boulevard Causeway Interchange, LADOTD, New Orleans, LA.** *Roadway 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 in traffic for the New Orleans Metro Area. It consisted of the development roadway and bridge ramps for the creation of an elevated signal-controlled interchange. The estimated construction cost for this project was approximately fifty-nine million dollars. Responsible for the ***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. Bentley InRoads was used for the development of the roadway plans for this project.
02/10 – 06/11	**I-10 from Veterans to Clearview, LADOTD, Metairie, LA.** *Roadway 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 new roadway 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.
07/09 – 07/15	**Peters Road Expansion, Phases I, II and III, LADOTD, Plaquemines, LA.** *Roadway 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, DOTD and the U.S. Army Corps of Engineers.
02/07 – 10/09	**John James Audubon Bridge Approach (Design-Build [DB]), LADOTD, New Roads, LA.** *Roadway 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.
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.
06/04 – 01/11	**Causeway Boulevard Interchange Improvements Phase I and II, LADOTD, Metairie, LA.** *Roadway Designer.* For the project, which consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at grade and elevated ramps to provide better accesses, ***improve safety and ease congestion at this heavily travel 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 or/and structure foundations.

Firm employed by. ARCADIS			Meets MPR No. 3
Name	David Fulks, PE	Years of relevant experience with this employer	18
Title	Roadway Design Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		MS / 2019 / Engineering Management, The George Washington University BS / 1997 / Civil Engineering, Portland State University	
Active registration number / state / expiration date		PE.030151 / LA / Exp. 09/2026	
Year registered	2002	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Low Cost Safety Design**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Fulks has more than **30 years of experience in the design of roadways and pedestrian facilities**, land developments, flood protection systems, and airports. His experience encompasses analysis and design of **geometric design** of highways, streets, sidewalks, restrictive intersections, roundabouts, and interchanges; site hydrology and hydraulics; and traffic impact analysis. His experience has been applied to a range of projects, from **Stage 0 feasibility and safety studies**, to design and construction plan development. His responsibilities have included preparing engineering designs, reports, plans, and specifications preparing and managing project schedules and cost estimates and providing construction administration. **Mr. Fulks meets Minimum Personnel Requirement Number 3.**
05/14 – 05/15	**Safety Studies IDIQ - Joe Sevario / Roddy Road Roundabouts, LADOTD, Ascension Parish, LA.** *Task Manager and Lead Roadway 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	**Safety Design IDIQ - US 190B at Jefferson Ave Roundabout, 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 Corridor 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.
11/14 – 10/15	**Safety Studies IDIQ - LA 44 and Loosemore Road Roundabout, LADOTD, Ascension Parish, LA.** *Deputy Project Manager and Lead Roadway 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.
02/15 – 08/17	**Stage 0 Feasibility Study - US 71 Corridor Phase II, LADOTD, Rapides Parish, LA.** *Roadway Engineer*. Provided technical oversight for ***conceptual design*** drawing development as part of the preparation of a ***Stage 0 feasibility study*** for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Completed ***Stage 0 documentation*** including ***Preliminary Scope and Budget and Environmental Checklists***.
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***.
01/14 – Ongoing	**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***.
04/13 – 07/14	**US 11 Environmental Assessment, Bridge Replacement, and Roadway Improvements, LADOTD, St. Tammany Parish, LA.** *Lead Roadway 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.
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 the mainline highway, bridge, and adjacent 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 – 4/10	**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.

Firm employed by:	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS		
Name	Caldwell (Cal) P. Joy, PE	Years of relevant experience with this employer	4
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		Bachelor of Science / 2012 / Civil Engineering	
Active registration number / state / expiration date		PE.0043830 / LA / Exp. 03/2026	
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Low-Cost Safety Design**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Joy has more than 12 years of experience in the field of civil engineering. Design projects he has worked on include roadway rehabilitation, **feasibility studies**, **safety studies**, new construction, widening, **low-cost safety design** including sidewalks, signals and intersections, and roundabout design for state highways and local roads. He is primarily responsible for design plan preparation and detailing, typical section development, design quantity calculations, and **cost estimation**, which require extensive use of MicroStation and InRoads. He has successfully completed the three modules of the Traffic Engineering Process and Report course and has satisfied the requirements to be designated as a Certified Flagger, Traffic Control Technician, and Traffic Control Supervisor.
03/21 – 06/23	**Safety Studies IDIQ - LA 3040 Stage 0 Safety Feasibility Study, LADOTD, Houma, LA.** *Project Manager and Senior Transportation Engineer.* Responsible for coordinating with all agencies and stakeholders for the ***development of safety improvement alternatives and Stage 0 document preparation***. Performed a study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA and develop feasible alternatives.
06/21 – 02/22	**LA 931 and Roddy Road Roundabout and Safety Design, Ascension Parish, Gonzales, LA.** *Senior Transportation Engineer.* This intersection historically involved high frequency and high severity crashes. This project was funded through the MoveAscension Initiative and addresses ***traffic mobility and safety issues***. Provided design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services included preparing a roundabout report (***crash analysis***, ***cost-benefit analysis***, traffic analysis, speed study, ***safety analysis***), electrical lighting design, subsurface drainage, permit application, ***preliminary and final design plans***, specifications, special provisions, ***construction estimates***, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design complied with state and federal guidelines and received LADOTD review and approval.
06/21 – 08/22	**Safety Studies IDIQ - US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA.** *Senior Transportation Engineer.* Performed a ***Stage 0 safety feasibility study*** along approximately three miles of Airline Highway (US 61) in Laplace, LA and ***develop feasible safety countermeasures*** to address the issues on US 61 between Bert Street and Cardinal Drive.
11/17 – 06/19	**Safe Routes to Schools/Local Road Safety Program - Ouachita Parish Sidewalks, Ouachita Parish, West Monroe, LA.** *Transportation Engineer.* This project involved ***design of low-cost safety improvements*** including sidewalk around three schools: Riser Elementary, Shady Grove Elementary, and Jack Hayes Elementary. Approximately 2.3 miles of sidewalk needed updating. A new redesign of all current sidewalks was needed to meet current LADOTD standards and help safely transport pedestrians. Updated widths, slopes, lengths, drainage, and driveways were all need to successfully complete this project.

03/21 – 06/23	**Safety Studies IDIQ, LADOTD, Statewide.** *Project Manager and Senior Transportation Engineer.* Included Stage 0 feasibility studies, road safety studies, ***preliminary and final road design plan development, specifications, and engineers' estimates for low-cost safety improvements***, safety effectiveness evaluations, crash evaluations, and traffic analysis.
05/21 – 11/24	**Jefferson Highway at Corporate Intersection Improvements, East Baton Rouge Parish, LA.** *Project Manager and Senior Transportation Engineer.* Provided design to extend existing and incorporate additional turning lanes, where necessary, to increase storage length and improve capacity. In addition to turning lane improvements, ***pedestrian facility and driveway access enhancements were made to improve safety, pedestrian connectivity to transit facilities, and access management***.
02/17 – 09/20	**Safe Routes to Schools/Local Road Safety Program - Endom Bridge Approach Realignment, Ouachita Parish, West Monroe, LA.** *Transportation Engineer.* This intersection at Endom Bridge had some serious sight distance issues and safety concerns coming off the bridge, as well as, high pedestrian volume in the area. The improvements made was an ***intersection realignment for better sight distance***, allowing trucks to make adequate turning movements off the bridge, and ***safely transporting pedestrians*** off the bridge and into the neighborhoods.
04/18 – 09/19	**Safe Routes to Public Places Program - Town of Farmerville Sidewalks, Union Parish, Farmerville, LA.** *Transportation Engineer.* This project included ***low-cost safety design*** for a set of two sections of sidewalks. One was to help transport pedestrians to the local school and the other was to help transport pedestrians to the library. Approximately 1.14 miles of sidewalk needed updating or newly constructed so they ***met current LADOTD standards and help safely transport pedestrians***. Updated widths, slopes, lengths, drainage, and driveways were all need to successfully complete this project.
02/21 – 07/21	**US 84 Improvements, LADOTD, Winnfield, LA.** *Project Manager and Senior Transportation Engineer.* Tasked with the preparation of an Environmental Assessment in accordance with NEPA and FHWA regulations and guidelines for the proposed widening of US 84 in the Winnfield, LA area. Tasks performed to complete the environmental document included, but were not limited to: line and grade study; evaluation of archeological, cultural, social, economic, and environmental consequences; traffic study and modeling; ***safety analysis***; ***Engineer's opinion of cost***; public outreach; corridor preservation; cultural resources; section 404; and wetlands mitigation. A combination of ***nine build alternatives were developed with safety improvements such as roundabouts, access management, and widening***.
08/21 – Ongoing	**West Metairie Avenue Restoration, Infinity Engineering Consultants/Jefferson Parish, LA.** *Senior Transportation Engineer.* Provided services associated with concrete roadway panel replacements and canal stability improvements on West Metairie Avenue from David Drive to Roosevelt Boulevard in Jefferson Parish. Conducted ***field visits*** to evaluate the condition of the existing concrete roadway and made recommendations for concrete panel improvements. Our staff provided engineering design, plans and construction plans for the replacement of failed panels. Upon recommendation by the Parish, designed replacement of drainage structures and repairs to the Canal to prevent future erosion. In conjunction with the replacement of the drainage structures, ***Identified utility conflicts and made recommendations to resolve conflicts***. This project includes plan and profile, suggested graphical grades, and suggested striping layout sheets.

Firm employed by: BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS			
Name	Joseph F. Mingo, PE	Years of relevant experience with this employer	10
Title	Civil Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		Bachelor of Science / 2014 / Civil Engineering	
Active registration number / state / expiration date		PE.0043700 / LA / Exp. 03/2026	
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Low-Cost Safety Design, Stage 0 Safety Studies**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Mingo has more than 10 years of experience working on projects related to **road design**. He has worked on **feasibility studies and design projects** involving roadway rehabilitation, widening, roundabout, intersection improvement, **shared use path**, **safety improvements**, and lighting design projects. His primary responsibilities include design development, design plan preparation and detailing, design quantity calculations, and cost estimation. These duties require extensive knowledge and use of MicroStation and InRoads design software. He has successfully completed the three modules of the Traffic Engineering Process and Report course and has satisfied the requirements to be designated as a Certified Flagger, Traffic Control Technician, and Traffic Control Supervisor.
11/18 – 03/21	**Safety Studies IDIQ - LA 3040 Stage 0 Safety Feasibility Study, Houma, LA.** *Roadway Design Engineer.* Performed a ***feasibility study*** to ***identify safety and/or operational issues*** along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA and evaluate ***reasonable alternatives to address any deficiencies*** discovered. Responsible for performing peak period observations in the field and ***safety analysis using CATScan***.
11/21 - Ongoing	**Local Roads Safety Initiative, Multiple Counties in Tennessee:** *Roadway Design Engineer.* Mr. Mingo is responsible for ***crash data collection and production of crash diagrams***, report and ***cost estimate preparation***, as well as development of the ***signing and striping plan***. Providing engineering services to TDOT for their Local Roads Safety Initiative (LRSI) program in Region 4 (West Tennessee). The LRSI is a federally funded program focused on improving safety on local routes using traffic and crash data. Proposed improvements are based on data summaries, ***field reviews***, stakeholder meetings, and additional analysis. ***Road Safety Audits (RSAs)*** are often conducted. Develops signed RSA report, plans, contract packet, and all necessary backup data for project letting.
08/18 – 02/22	**LA 931 and Roddy Road Roundabout and Safety Design, Ascension Parish, Gonzales, LA.** *Roadway Design Engineer*. Mr. Mingo is responsible for using MicroStation and InRoads to design and ***prepare design plans for the single-lane roundabout***, using LADOTD HYDR programs and InRoads Storm & Sanitary to design the subsurface drainage, and coordinating with the client to incorporate any wants and concerns. Providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a ***roundabout report*** (***crash analysis***, ***cost-benefit analysis***, traffic analysis, speed study, ***safety analysis***), electrical lighting design, subsurface drainage, permit application, ***preliminary and final design plans***, specifications, special provisions, ***construction estimates***, and calculations.
05/21 – 11/24	**Jefferson Highway at Corporate Intersection Improvements, City of Baton Rouge/Parish of East Baton Rouge, LA.** *Roadway Design Engineer*. Mr. Mingo was responsible for the design of turn lanes at the signalized intersection as well as ***development of preliminary and final Design Plans***. Provided design to extend existing and incorporate additional turning

	lanes, where necessary, to increase storage length and improve capacity. In addition to turning lane improvements, pedestrian facility and driveway access enhancements were made to ***improve safety, pedestrian connectivity to transit facilities, and access management***.
11/23 - Ongoing	**Sylvan Avenue Trail, City of Pittsburgh, Pittsburgh, PA.** *Roadway Design Engineer* Mr. Mingo is responsible for using MicroStation and InRoads to develop the ***horizontal and vertical alignments for a shared-use path connection.*** He is responsible for the development of the Line, Grade, and Typical submission as well as cross sections. BH is providing the design and development of bid documents for the construction of a shared-use path along the existing Sylvan Avenue right-of-way between Home Rule Street and Waldeck Street within the City of Pittsburgh (City).
10/17 – 09/24	**New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA.** *Roadway Design Engineer* Mr. Mingo was responsible for using MicroStation and InRoads to design and ***prepare design plans for the single-lane roundabout*** as a part of the MoveAscension initiative, using LADOTD HYDR programs and InRoads Storm & Sanitary to design the subsurface drainage, and coordinating with the client to incorporate any wants and concerns. Prepared the design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, ***preliminary and final roundabout plans and specifications,*** right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection.
02/16 - 02/17	**Stage 0 Feasibility Study for LA 182 Sidewalk and Handicap Ramp Improvements, LADOTD, New Iberia, LA.** *Roadway Design Engineer*. Mr. Mingo was responsible for scoping, ***alternative development***, ***environmental documentation***, report preparation, and ***cost estimation***. Conducted a Feasibility and Planning Study (referred to by LADOTD as a "Stage 0" Study) to evaluate the feasibility of the rehabilitation and construction of approximately 1.8 miles of continuous sidewalks and handicap curb ramps along LA 182 in Iberia Parish, LA.
11/13 – 08/19	**Safety Design IDIQ - US 425 Roundabout Design, LADOTD, Rayville, LA.** *Roadway Design Engineer.* Mr. Mingo was responsible for assisting with the ***development of final design plans for the multi-lane roundabout***. Provided the design of a new six-legged roundabout at the intersection of US 425, Grimshaw Street, and Christian Drive and relocation of an existing frontage road, including construction phasing, ***quantity calculations***, ***cost estimates***, and drainage design.
09/15 – 03/17	**LA 19 Widening (LA 64 to Sunset Boulevard) Stage 0 Feasibility Study, LADOTD, Baton Rouge, LA.** *Roadway Design Engineer.* Mr. Mingo was responsible for ***alternative development***, ***crash and safety analysis***, ***environmental documentation***, report preparation, and ***cost estimation***. Prepared a Feasibility and Planning Study and Environmental Inventory according to the LADOTD Manual of Standard Practice to evaluate the feasibility of widening 1.4 miles of LA 19 from LA 64 to Sunset Boulevard per the Cooperative Endeavor Agreement (CEA) between LADOTD and the City of Zachary.
06/19 – 02/21	**US 167 Stage 0 Feasibility and Planning Study, Elsie Street to Gilbert Drive, Ville Platte, LA.** *Roadway Design Engineer*. BH prepared a ***Stage 0 Feasibility and planning study*** to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. ***Environmental impacts and cost estimates*** were prepared. Responsible for performing ***preliminary roadway design*** and ***safety analysis using CATscan***.

Firm employed by: digital engineering			
Name	Stephanie B. Turner, P.E.	Years of relevant experience with this employer	4
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		BS / 2010 / Civil Engineering	
Active registration number / state / expiration date		PE.0039490 / LA / Exp. 09.2025	
Year registered	2015	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Low-Cost Safety Design, Ped/Bike/Complete Streets**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mrs. Turner is a senior transportation engineer with 13 years of experience in **roadway design including design of pedestrian facilities and low-cost safety improvements** for LADOTD and Louisiana Municipal Agencies. Her career began in the Road Design Section at LADOTD Headquarters, where she spent three years before transitioning to the private sector. Her experience is fortified by her knowledge of resources such as the LADOTD Road Design Manual, LADOTD Minimum Design Guidelines, LADOTD Traffic Engineering Manual, MUTCD, Louisiana Standard Specifications for Roads and Bridges, AASHTO Green Book, AASHTO Roadside Design Guide, as well as LADOTD Standard Plans and Special Details.
08/21 – 11/24	**Stage 0 Feasibility Study and Design – W. Judge Perez Road, NORPC, St. Bernard Parish, LA.** *Senior Transportation Engineer*. Feasibility study for NORPC to identify alternatives along the W. Judge Perez Drive (LA 39) corridor between Rowley Boulevard and Pakenham Drive to ***improve safety for all users with emphasis on non-motorized traffic safety***. The project also included the developement of ***preliminary and final design plans*** for propsoed safety improvements.
08/21 – 07/22	**Curve Signing and Striping (Evangeline), LADOTD, Evangeline Parish, LA.** *Senior Transportation Engineer.* Responsible for ***design of local road safety improvements*** including signing and striping for 17 sites throughout Evangeline Parish. Stephanie performed a field inventory of the signing and striping and ball banking for 17 curves. She calculated location for signing and striping in curves and at intersections, reviewed and approved quantities, ***engineer's opinion of probable cost***, and Design Report. Stephanie worked with the LADOTD Project Manager in order to perfect this set of plans so it could be used as the ***template for future Signing and Striping Safety Design IDIQ Projects.***
04/23 – Ongoing	**Morgan City Sidewalks and Shared Use Path, LADOTD, St. Mary Parish, LA.** *Senior Transportation Engineer.* Responsible for the ***design of pedestrian enhancements, sidewalk and shared use path*** project. The traffic study and the survey tasks are currently underway. Once these tasks are completed, Stephanie will coordinate with the City and LADOTD to determine certain design parameters based on the findings from the survey and the traffic study. This project will require subsurface drainage and possibly a retaining wall.
08/21 – 11/23	**Lake Charles Safe Routes to Schools Project – Barbe Elementary, LADOTD, Calcasieu Parish, LA.** *Senior Transportation Engineer.* Responsible for the ***development of plans for sidewalk enhancement and safety improvements***. The project involves new and reconstructed sidewalks along five (5) streets surrounding Barbe Elementary School and included 300 feet of subsurface drainage design and a sheet pile wall required in order to provide safe pedestrian access. Stephanie tracked the budget and schedule for this SRTS project, which also required development of curb ramp geometry as well as their locations.
08/21 – 07/23	**Local Road Safety Program - Jefferson Island Sidewalks, LADOTD, Iberia Parish, LA.** *Senior Transportation Engineer.* Responsible for the ***development of plans for pedestrian enhancements, sidewalks, signing and pavement markings*** project.

	Stephanie also performed review of design for 800 feet of subsurface drainage design for this LSRP project involving the addition of 1,470 linear feet of 5-foot-wide sidewalks for students to access Westgate High School and Sugarland Elementary School. Design includes drainage updates due to existing issues near one of the school's parking lots, main driveway updates, and the addition of a curb ramp near the end of the project site, and installation of ***ADA-compliant ramps*** in front of the schools.
04/23 – 02/24	**Local Road Striping & Signing, LADOTD, Bossier Parish, LA.** *Senior Transportation Engineer.* Responsible ***design of signing and striping plans for over 50 miles of roadway***, including eight (8) routes including approximately 119 curves. Stephanie created forms in ArcGIS Field Maps for use during the field inventory site visits, which allowed the team to locate more accurately the signing and striping along these routes for more efficient and accurate data collection. She also created forms for ball banking for each curve to make this process more efficient as well.
08/21 – 05/22	**Signing & Striping (Acadia), Acadia Parish, LADOTD, LA.** *Senior Transportation Engineer.* Responsible for ***design of the signing and striping for 19 sites throughout Acadia Parish***. Stephanie was responsible for calculation of location for signing and striping in curves and at intersections. She reviewed, and approved ***quantities***, ***engineer's opinion of probable cost***, and ***Design Report***. This project included field inventory of signing and striping for almost 30 miles including twenty-two (22) curves and six (6) routes as well as ball banking for every curve located within the project limits.

Firm employed by: digital engineering			
Name	Michael Flynn, PE	Years of relevant experience with this employer	6
Title	Transportation Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 2016 / Civil Engineering	
Active registration number / state / expiration date		PE.0044902 / LA / Exp. 03/2027	
Year registered	2020	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**Low-Cost Safety Design, Ped/Bike/Complete Streets, Stage 0 Safety Studies**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Flynn serves as a Transportation Engineer supporting transportation and storm water projects that help to maintain or improve infrastructure in South Louisiana. His experience includes **low-cost safety design** such as signing and striping improvements and **pedestrian facility improvements**. He also has experience in the development of **Stage 0 Feasibility studies**. Prior to joining DE, Michael served as an Engineer Intern at LADOTD where he performed inspections, completed field tests, managed scheduling, and developed **cost estimates and quantities** for transportation projects such as roadway rehabilitation or new roadway construction.
01/20 – 11/24	**Stage 0 Feasibility Study and Design – W. Judge Perez Road, NORPC, St. Bernard Parish, LA.** *Transportation Engineer*. Feasibility study for NORPC to identify alternatives along the W. Judge Perez Drive (LA 39) corridor between Rowley Boulevard and Pakenham Drive to ***improve safety for all users with emphasis on non-motorized traffic safety***. Responsible for the oversight of planning and engineering of the site investigations, data collections, preliminary ***drawing layouts***, ***cost estimating***, and final report. The project also included the developement of ***preliminary and final design plans*** for propsoed safety improvements.
08/21 – 05/23	**Local Road Safety Program - Signing & Striping (Acadia), LADOTD, Acadia Parish, LA.** *Transportation Engineer* responsible for the ***design and development of the final plans and construction cost estimate*** for the signing and striping along six local roadways and fifteen horizontal curves in Acadia Parish, as outlined in the sponsor's application and the scoping report developed by LADOTD. Michael conducted site visits to the local roads included in the project to complete ***site assessments*** and to perform ball-bank testing on roadway curves. The results of the ball-bank testing were used to determine the appropriate horizontal alignment ***warning signage and advisory speeds for roadway curves*** included in this LRSP project.
04/21 – 09/21	**Stage 0 Feasibility Study - Goodbee / West St. Tammany LA 1077 Corridor Land Use and Transportation Study, St. Tammany Parish, LA.** *Transportation Engineer.* Land use and transportation study that reviewed the existing conditions of the corridor, existing and future land uses, ***traffic data collection and existing analysis***, design year traffic analysis and modeling, conceptual plans and typical sections, environmental documentation including the ***LADOTD Stage 0 Environmental and Budget Checklists***, ***Opinion of Probable Cost***, and ***Final Stage 0 Report Deliverables.***
04/23 – 02/24	**Local Road Safety Program - Striping & Signing (Bossier), LADOTD, Bossier Parish, LA.** *Transportation Engineer.* Responsible for the ***design and development of the final plans and construction cost estimate*** for signing and striping plans, ***low-cost safety improvements*** along eight local roadways in Bossier Parish as outlined in the sponsor's application and the scoping report developed by LADOTD. Michael conducted site visits to the local roads included in the project in order to create an inventory of all existing signage and striping on the included roadways using a GIS system developed by members of DE. Additionally, he completed ball-bank testing for all roadway curves located along the local routes included in the project. The

	results of the ball-bank testing will be used to determine appropriate horizontal curve warning signage and advisory speeds in the roadway curves for this LRSP Project.
09/18 – 09/21	**Safety Routes to Schools - New Orleans DPW SRTS Sidewalk Project and Multi-modal Safety Improvements, LADOTD, New Orleans, LA.** *Transportation Engineer.* Responsible for ***design of pedestrian enhancements, sidewalks, signing and pavement markings*** as part of this road safety project. He was responsible for site visits to determine where existing sidewalks and handicap ramps in the project area are suitable for ADA standards, and where sidewalks and handicap ramps must be replaced or added to comply with ADA standards. During the design phase, duties include the development of engineering plans and typical sections for or the installation of 5' concrete sidewalks, 10' wide multi-use paths, ***road diet bike lanes***, ***HAWK Pedestrian Hybrid Beacon***, solar powered school zone flashing beacon, ADA compliant curb ramps and pedestrian crosswalks, and pedestrian countdown signal heads with accessible pedestrian pushbuttons. During construction, the LPA requested a change to the striping along a roadway, Bienville Street, in this project. Michael provided Construction Support services by developing of the change order plans necessary for the implementation of the revised striping.
08/21 – 07/22	**Local Road Safety Program - Curve Signing and Striping (Evangeline), LADOTD, Evangeline Parish, LA.** *Transportation Engineer.* Responsible for the ***design and development of the final plans and construction cost estimate*** for signing and striping for 17 sites throughout Evangeline Parish. Michael conducted site visits to the local roads included in the project to complete site assessments and to perform ball-bank testing. He attended meetings with LADOTD staff for development of plan requirements for future ***signage and striping plans*** developed for these Safety Program projects. From these meetings, it was agreed that the plans developed for this LRSP project would be utilized as a template for future signing and striping plan requirements developed for the Safety Program projects.
09/19 – 01/21	**Local Road Safety Program - St. Bernard Signing and Striping, LADOTD, St. Bernard Parish, LA.** *Transportation Engineer.* Signing and pavement marking project to ***implement low-cost safety improvements***, funded by the Local Road Safety Program, on local roads in St. Bernard Parish. Michael is responsible for working with the LADOTD and St. Bernard Parish to develop a scoping report, quantity takeoffs, and cost estimating for the project. During the scoping and design phase, he utilized the CRASH3 database to ***analyze crash data to determine which roads had traffic safety issues*** that could best be alleviated by low-cost safety improvements (signing, striping, Rapid Flashing Beacons). He also had to work with St. Bernard to install bikeway signage and striping that on local roads that qualified for federal funding.
09/19 – 02/21	**Local Road Safety Program - RWD Signing Plaquemines, Belle Chasse, LA.** *Transportation Engineer.* Signing and pavement marking project to implement ***low-cost safety improvements***, funded by the Local Road Safety Program, on local roads in Plaquemines Parish. He is responsible for working with the LADOTD and Plaquemines Parish to develop a scoping report, cost takeoffs, and cost estimating for the project. During the scoping and design phase, he utilized the CRASH3 database to ***analyze crash data to determine which roads had traffic safety issues*** that could best be alleviated by low-cost safety improvements (signing, striping, Rapid Flashing Beacons).

16 STAFF EXPERIENCE:

Environmental Scientists

Firm employed by. ARCADIS

Name	Jason Morrell, PWS	Years of relevant experience with this employer	9
Title	Senior Environmental Planner / 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. 04/2028 NHI Course No. 142005, NEPA and Transportation Decision Making	
Year registered	2013	Discipline	Wetland Science
Contract role(s) / brief description of responsibilities		**Environmental**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Morrell has more than **22 years of experience in environmental planning**, including over 18 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.
02/23 – 05/24	**Safety Studies IDIQ - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA.** *Environmental Planner*. Responsible for performing ***desktop and field environmental reviews*** to identify and document environmentaly sensitive areas. Purpose of study was to develop and evaluate safety countermeasures to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish. Study data, methods, and results were documnted in a ***Stage 0 Feasibility Reports*** were completed with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.***
04/23 – 01/25	**LA 22 Tchefuncte River Bridge Stage 0 Feasibility Study, LADOTD, St. Tammany Parish, LA.** *Environmental Planner.* Responsible for performing ***desktop and field environmental reviews*** to identify and document environmentaly sensitive areas. Purpose of project is to develop and evaluate feasible alternatives for the replacement of the LA 22 Tchefuncte River Bridge in Madisonville, LA. Environmental reviews were performed to identify any impacts to to the natural resources, historically significant locations, and community. All study methods and results were documented in a ***Stage 0 Feasibility Report*** with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.***
04/16 – Ongoing	**Pete's Highway Interchange Alternative 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 replacement of an 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.***
09/19 – 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 providing 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.

Firm employed by. ARCADIS			
Name	Jan Hughes	Years of relevant experience with this employer	2
Title	Senior Environmental Planner	Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization		BA/ 1984 / Anthropology – Louisiana State University	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		**Environmental**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Jan brings **25 years of experience with the LADOTD Environmental Section** overseeing the National Environmental Policy Act (NEPA) process for proposed transportation projects, as well as preparing NEPA, Section 106 of the National Historic Preservation Act, and Section 4(f) of the U.S. DOT Act documentation for FHWA and U.S. Coast Guard. She has taken NHI Course No. 142055, NEPA and Transportation Decision Making. Jan has primary responsibility for authoring NEPA documents, including the Airline Highway Environmental Assessment for FHWA for which a FONSI was issued, and the Oaklawn Bridge Categorical Exclusion Reevaluation approved by FHWA. In addition to the projects listed below, throughout her career Jan has provided oversight for numerous staff and consultant prepared NEPA documents for LADOTD and local entities. She has also coordinated with federal, state, and local agencies on other environmental issues. She has conducted **public involvement activities, including meetings and hearings.** Jan was a project team member in the development of the 2015 Louisiana Historic Bridge Inventory and Section 106 Programmatic Agreement for Treatment of Louisiana Historic Bridges.
02/23 – 05/24	**Safety Studies IDIQ - District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA.** *Environmental Planner*. Responsible for performing ***desktop and field environmental reviews*** to identify and document environmentaly sensitive areas. Purpose of study was to develop and evaluate ***safety countermeasures*** to address pedestrian safety needs on 7 corridors within Caddo and Bossier Parish. Study data, methods, and results were documnted in a ***Stage 0 Feasibility Reports*** were completed with ***Preliminary Scope and Budget Checklist*** and ***Environmental Checklist.***
04/24-Ongoing	**I-20 Widening Monroe, LADOTD, Ouachita Parish, LA**. *Environmental Planner and Public Meeting Coordinator.* Assisted with required ***wetland studies*** and the development of a Wetlands Finding Report using the latest FHWA criteria. Assisted with the coordination and execution of a public meeting to obtain public and stakeholder input. ***Prepared public meeting report***.
11/22 – Ongoing	**US 11 Norfolk Southern Railroad, Route US 11, Environmental Assessment/FONSI, LADOTD, St. Tammany Parish, LA.** Coordinating with LADOTD regarding the reevaluation of the FONSI.
4/23 – 4/23	**Airline Highway North (Florida Blvd to I-110), Route US 61, City of Baton Rouge and East Baton Rouge Parish, East Baton Rouge Parish, LA.** Assisted with preparation of the ***Stage 0 checklist.***
10/22 – 05/23	**LA 16 (Pete's Highway)/I-12 Interchange, Route LA 16, Environmental Assessment, LADOTD, Livingston Parish, LA.** Coordinated with LADOTD to revise the draft Environmental Assessment to incorporate the rewritten construction phasing section of the document.
10/22 – 05/23	**Rural Bridges Initiative II, Districts 02, 03, 07, 61, and 62, LADOTD.** Reviewed and provided comments on draft ***Programmatic Categorical Exclusion*** documents for multiple projects.

02/94 - 08/98	**Airline Highway (US 61), Florida Boulevard to Just North of Jefferson Hwy., Environmental Assessment/FONSI, LADOTD, East Baton Rouge Parish, LA.** *LADOTD NEPA Lead.* Widening of this approximately 3.5-mile portion of Airline Highway from four lanes to six lanes. Responsible for handling the ***NEPA process*** and primary responsibility for authoring the Environmental Assessment with Programmatic 4(f) Statement for an adjacent park for FHWA for which a FONSI was issued.
01/11 – 05/15	**Bayou Teche Bridge at Oaklawn, Route LA 323, Categorical Exclusion Re-evaluation, LADOTD, St. Mary Parish, LA.** *LADOTD NEPA Lead.* Replacement of this historic, one lane, swing span bridge built in 1942 with a two-lane bridge on existing alignment. Responsible for handling the NEPA process and primary responsibility for authoring the ***NEPA document approved by FHWA***. Also handled the Section 106 Consulting Parties process, preparation of the Section 106 Memorandum of Agreement and Programmatic Section 4(f) Statement for adverse impact to the bridge, and the historic bridge marketing and draft agreement for LADOTD's first ownership transfer of a historic bridge to another entity for alternate use.
03/02 - 03/05	**Huey P. Long Bridge, Route US 90, Environmental Assessment, LADOTD, Jefferson Parish, LA.** *LADOTD NEPA Lead.* Widening of the highway portions of this historic highway/railroad bridge constructed in the 1930s from two 9-foot-wide lanes to three 11-foot-wide lanes. Responsible for oversight of the ***NEPA process*** and consultant preparation of the NEPA document for U.S. Coast Guard. Also handled coordination with the New Orleans Public Belt Railroad and Louisiana State Historic Preservation Officer and preparation of the Section 106 Memorandum of Agreement for the adverse impact to the historic bridge.
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.** *LADOTD NEPA Lead.* 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. Responsible for oversight of the ***NEPA process*** and consultant preparation of the Environmental Assessment for FHWA.
04/01 - 12/06	**I-49 South, Wax Lake Outlet to Berwick, Route US 90, Environmental Impact Statement/ROD, LADOTD, St. Mary Parish, LA.** *LADOTD NEPA Lead.* Upgrade of this 9.3-mile portion of US 90 to a four-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the ***NEPA process*** and consultant preparation of the NEPA document for FHWA which was approved as a ROD.
04/01 - 10/05	**I-49 South, Lafayette Regional Airport to LA 88, Route US 90, Environmental Impact Statement/ROD, LADOTD, Iberia/Lafayette/St. Martin Parishes, LA.** *LADOTD NEPA Lead.* Upgrade of this 10.8-mile portion of US 90 to a six-lane facility with frontage roads meeting interstate standards. Responsible for oversight of the ***NEPA process*** and consultant preparation of the NEPA document for FHWA which was approved as a ROD.
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.** *LADOTD NEPA Lead.* Preparation of a SEIS that includes follow-up to commitments made in the 2003 Record of Decision (ROD) 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. Responsible for oversight of the ***NEPA process*** and the consultant NEPA work, which includes extensive public involvement. Also carried out the SEIS initiation process and re-initiation of the Section 106 process.

*Until retirement from LADOTD in February 2019.

Firm employed by. ARCADIS			
Name	Kimberly A. Arcement	Years of relevant experience with this employer	1
Title	Senior Ecologist / Environmental Planner	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization	MS / 2001 / Ecosystem Science BS / 1998 / Environmental and Sustainable Resources		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	**Environmental**		

Experience dates	Experience and qualifications relevant to the proposed contract
	Ms. Arcement is a **Senior Ecologist and Environmental Planner with 25 years of experience** in achieving compliance with environmental laws such as the Clean Water Act, NEPA, and NHPA. She has processed various permits for coastal use, obtained permits from USACE and LDEQ, and conducted Phase I Environmental Site Assessments (ESAs) per ASTM E1527. He has experience with **environmental tasks required for feasibility studies** including desktop and field reviews to document environmentally sensitive areas, and conducting **public meetings**. She was also the environmental advisor for the MOVEBR program while employed at CSRS (10/2018 to 09/2023. Additionally, she obtained the USACE Individual Permit and LDEQ Water Quality Certification for McHugh Road on behalf of the City of Baton Rouge-East Baton Rouge Parish.
04/24 – Ongoing	**I-20 Widening Monroe, LADOTD, Ouachita Parish, LA**. *Environmental Planner and Public Meeting Coordinator.* Assisted with required ***wetland studies*** and the development of a Wetlands Finding Report using the latest FHWA criteria. Assisted with the coordination and execution of a public meeting to obtain public and stakeholder input. ***Prepared public meeting report***.
10/18 – 09/23	**MOVEBR Transportation Program, City of Baton Rouge, East Baton Rouge Parish, LA**. *Environmental Program Advisor* for the City-Parish's $1.8 billion investment in transportation improvements; specifically, 39 roadway capacity projects. Worked with the New Orleans District Corps of Engineers to remove roadside ditches from jurisdiction under the 2020 Navigable Waters Protection Rule. Advisory services ***ensured FHWA and DOTD compliance*** (e.g., Section 404, Section 401 Water Quality Certification, LDWF Scenic Rivers Permit, Significant Trees, etc.)
10/18 – 09/23	**Heritage Crossings Mixed-Use Development, Ascension Parish, LA.** *Environmental Practice Lead.* Obtained the Section 404 permit and Water Quality Certification for a new mixed-use development anchored by the new Gonzales PACE Center. The project included internal infrastructure to improve traffic flow and connectivity to medical facilities. The project required compensatory ***wetland mitigation*** for 9 acres of bottomland hardwoods.
05/21 - 09/23	**Port of Greater Baton Rouge, West Baton Rouge Parish, LA.** *Environmental Practice Lead.* Provided ***environmental services*** to owner's/investment reps for Grön Fuels, a $9.2 billion renewable diesel refinery (biofuels) project that included: Phase I ESA, wetland delineation, Section 10/404, Section 7 of Endangered Species Act, Cultural Resources Survey, LDNR water well and LPDES wastewater discharge permits. Project included Capio carbon capture and sequestration injection wells.
05/11 – 10/16	**Port of New Orleans, Orleans Parish, LA.** *Environmental Specialist/Project Lead.* Responsible for ***preparing EA/Categorical Exclusion documents*** per Federal Railroad Administration (FRA) for funding through the U.S. DOT Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grant Program; $62 million in TIGER III funding was awarded for the 9-acres yard improvements and creation of a new 12-acre rail intermodal terminal at the Napoleon/Louisiana Avenue Wharves; Updated the EA documents in 2015 for $16.7 million TIGER award for additional intermodal improvements.

11/12 – 07/15	**Port of New Orleans, Orleans Parish, LA.** *Environmental Specialist.* Responsible for ***preparing NEPA compliance documents*** (EA and Supplemental EA) according to HUD 24 CFR Part 58 to secure federal funding for Henry Clay Wharf and Riverfront Cold Storage Project; Prepared supportive documentation: ***Purpose & Need***, Alternatives & Justification, Historic Preservation, 8-Step Floodplain & Wetlands Analysis, Traffic & Transportation, ***Environmental Justice***, and Noise Assessment with pile-driving and construction noise impacts; Required formal consultation with SHPO identifying the Area of Potential Effect (APE); Subsequently, prepared compliance documentation for Julia Street Cruise Terminal & Erato Street Terminal Improvements, Poland Avenue Bank Stabilization and Wharf Repairs, & Almonaster Bridge Replacement.
04/20 - 09/23	**University Lakes Flood Risk Reduction/Aquatic Restoration, East Baton Rouge Parish, LA.** *Natural Resource Manager.* Created a permitting matrix for nature-based solution project that beneficially used dredge material to create ecosystem habitat including riparian areas along 6-lake system (400+ acres). Permits included a Section 10/404 permit from the USACE, Water Quality Certification from the LDEQ, a Section 106 Concurrence from SHPO, and a Letter of No Objection from the USFWS and the LDWF. Obtained a Nationwide Permit 27 for the Aquatic Enhancement Pilot Study and prepared ***NEPA compliance documentation*** for release of CDBG-MIT funds from La. Office of Community Development.
10/20 – 09/22	**University Club – 11th Filing Phase 2 & 3, East Baton Rouge Parish, LA.** *Environmental Practice Lead.* Tasked with obtaining a Scenic Rivers Permit from LDWF for a residential subdivision located within a 100-feet of historic Bayou Manchac. Prepared permit application with an EA along with interagency coordination. The development was controversial given the 2016 Great Flood and site location along historic Bayou Manchac. Ms. Arcement worked hand-in-hand with LDWF and our engineering team to reconfigure the stormwater retention pond and remove the hydrologic connection to the bayou.
10/08 – 06/18	**The Domain Companies, South Market District, Orleans Parish, LA.** *Environmental Specialist.* Responsible for performing ***multiple Phase I ESA and preparing NEPA compliance documents*** for a 5-city block redevelopment project in downtown New Orleans; specifically, to secure funding through the Louisiana Office of Community Development Disaster Recovery Unit (OCD-DRU) for Project-based Recovery Opportunity Program (PROP) through the Community Development Block Grant (CDBG) Disaster Recovery Fund for parishes impacted by Hurricanes Katrina and Rita; Also, prepared Phase I ESAs and various ***NEPA compliance documents*** to secure HUD funding for the Gold Seal Creamery in New Orleans and new construction of the High Grove Development in Baton Rouge.
02/16 – 08/16	**St. Thomas Community Health Center, Orleans Parish, LA.** *Environmental Specialist.* Prepared ***NEPA compliance documents*** for HUD funding per 24 CFR Part 58 for OCD Gustav/Ike Economic Revitalization Business Recovery Grant; EA documentation also satisfied the U.S. Department of Health & Human Services, Health Infrastructure Investment Program; Also, prepared compliance documents for the adjacent KIPP Believe School in the Bayou District.
06/12 – 02/16	**Housing Authority of New Orleans (HANO), Orleans Parish, LA.** *Environmental Specialist.* Responsible for maintaining compliance for $30.5 million grant through HUD's Choice Neighborhoods Initiative program; ***Conducted Phase I ESAs and prepared multiple NEPA compliance documents*** (HUD 24 CFR Parts 50 and 58) for 7 phases of the 23-acre $600 million mixed-use redevelopment; Prepared Environmental Restrictions Checklist for Low-Income Housing Tax Credits; Achieved NHPA compliance through a Programmatic Agreement (PA) between the City of New Orleans, HANO, SHPO, and ACHP.

Firm employed by: BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS			
Name	John L. Mettille, Jr.	Years of relevant experience with this employer	5
Title	Senior Environmental Manager	Years of relevant experience with other employer(s)	40
Degree(s) / Years / Specialization		MA / 1977 / Transportation and Urban Geography, Kansas State University; BS / 1978 / Geography and Political Science, University of Wisconsin-La Crosse	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		**Environmental**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Mettille began his career in 1977 with the Kentucky Transportation Cabinet's (KYTC's) Division of Environmental Analysis, where he served for more than 28 years in several positions including **Chief Environmental Program Administrator**. Mr. Mettille served as the **lead preparer and reviewer for environmental documents and socioeconomic assessments** throughout much of his career there. He also served as the NEPA and Section 106 process technical expert. He is very knowledgeable of the Section 106 process through his experience in managing archaeological and historic program and his private sector project experience. Through his presentation and project experiences, he is well known in the NEPA, CIA, CSS, and Section 106 communities throughout the southeastern US and nationwide.
03/18 – 10/18	**Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA.** *Environmental Manager*. Preparation of an ***Environmental Impact Statement (EIS)*** for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. Responsible for providing technical oversight on the preparation of an EIS for a new controlled access highway between the Houma-Thibodaux areas and I-10.
01/08 – 09/09	**State Route 9 Improvements from Blue Springs to Guntown Environmental Assessment (EA), Mississippi DOT.** *Environmental QA/QC Manager.* Responsible for technical review of ***purpose and need and document*** and ***compliance with NEPA/FHWA regulations and guidelines***. The project was an ***environmental assessment*** for improvements to SR 9 in Lee and Union Counties, Mississippi, intended to provide a four-lane divided highway on new location. ***Environmental streamlining approaches were used in order to complete the project under an accelerated schedule*** due to a new planned automobile manufacturing plant. Provided technical assistance on the Section 106 consultation due to the project's effects upon a historic dairy farm.
05/11 – 12/15	**Houma-Thibodaux to LA 3127 Connection EIS, LADOTD, Southeastern LA.** *Technical Lead and Project Manager.* Conducted a ***tolling feasibility study and traffic analysis*** as part of the ***NEPA process***. Responsible for providing technical oversight on the preparation of an EIS. The purpose of the proposed Houma- Thibodaux to LA 3127 Connection is to improve north-south system linkage between the Houma-Thibodaux area and the Mississippi River corridor and improve emergency and hurricane evacuation within Louisiana's bayou region.
02/07 – 07/08	**Houma-Thibodaux to the Sunshine Bridge EIS, LADOTD, Southeastern LA.** *Project Manager*. This study ***evaluated the feasibility, potential impacts, and applicability*** of an east-west corridor extending from the Houma-Thibodaux area to the Sunshine Bridge (LA 70). This study addressed the concerns raised by several public resource and regulatory agencies.

16 STAFF EXPERIENCE:

GIS and CADD Support Staff

Firm employed by. ARCADIS			
Name	Joshua Chatelain	Years of relevant experience with this employer	13
Title	Senior Digital Data Analyst	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		**Data Analytics & Visualization, 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, field survey oversight, and providing GIS support for a wide range of projects. Mr. Chatelain is currently leading a project with LADOTD Safety Section to ***develop data sets for use in safety screenings and systemic analyses***. 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.
04/24 - Ongoing	**LADOTD Safety Section Support - LADOA General Services Staff Augmentation Contract, LADOTD, Statewide, LA.** *Data Analysist.* ***Supporting Highway Safety Section and CARTS (LSU Center for Analytics & Research in Transportation Safety) focus groups to design and develop a linear referenced enterprise Intersections data model*** to meet the needs of various stakeholders at LADOTD. Established database schemas, datasets, tables, and methodologies that supported Intersections data migration and development, and demonstrated Intersection Program goals and concepts to stakeholders across the agency. Developed an Intersection and Intersection Leg data model to conform department data to ***MIRE 2.0 standards*** including ***fundamental data elements (FDEs)***.
06/18 – 10/19	**I-10 Queue Warning Systems Engineering Analysis (SEA) and Feasibility Study, LADOTD, Baton Rouge, Louisiana.** *Probe Data and GIS Analyst*. Developed the first of its kind ITS SEA for the evaluation of a Queue Warning system on I-10 eastbound. Required ***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	**Retainer Contract for an Enterprise LRS System Development, LADOTD, Statewide, Louisiana.** *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, Arizona.** *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, Louisiana.** *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	22
Title	CADD Tech	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	Wetland Science
Contract role(s) / brief description of responsibilities		**Data Analytics & Visualization / GIS / CADD**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Sothon Men is an engineering technician with more than 28 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 EA, LADOTD, Natchitoches Parish, LA.** *CADD Technician*. Provided all CADD-related services for project ***drawing preparation***. Arcadis prepared an EA 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 LRFD spec. 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.

16 STAFF EXPERIENCE:

QA/QC and Technical Advisory Team

Firm employed by:	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS		
Name	Daniel J. Magri, PE	Years of relevant experience with this employer	3
Title	Director – Transportation South	Years of relevant experience with other employer(s)	38
Degree(s) / Years / Specialization		Bachelor of Science / 1979 / Civil Engineering	
Active registration number / state / expiration date		PE.0021669 / LA / Exp. 03/2026	
Year registered	1985	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**QA/QC and Technical Advisor (Safety)**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Magri obtained his bachelor's degree in civil engineering from Louisiana State University and has **40 years of diverse public-sector transportation experience**. His professional background includes 30 years at the Louisiana Department of Transportation & Development (DOTD), where he last served as Assistant Secretary for the Office of Planning, and previously as Deputy Assistant Secretary for the Office of Planning. **Dan was in the DOTD Highway Safety Section for over 20 years and ascended to the role of Highway Safety Administrator** after many years as a highway safety engineer and Assistant Public Hearings and Environmental Impact Engineer. Dan is a member of the Institute of Transportation Engineers (ITE), the American Society of Civil Engineers, and past President of the Association of Transportation Safety Information Professionals (ATSIP). Dan was the recipient of the Charles E. Dunbar, Jr., Career Civil Service Award, which is the highest honor classified state employees can receive for their service to the citizens of Louisiana.
2017 - 2021	**Assistant Secretary/Deputy Assistant Secretary - Office of Planning, LADOTD, Baton Rouge, LA.** *Highway Safety Engineer / Manager.* Mr. Magri administered the planning and programming matters of the Department related to highways, bridge and pavement management, data collection and analysis, ***highway safety***, cartography, public transit and related matters, and any other special programs as directed by the Assistant Secretary and the Secretary. Directed four distinct sections of the Office with responsibilities in the areas of (1) public road inventory, traffic monitoring, pavement and bridge management systems, and cartography, (2) ***highway safety and crash database management***, (3) statewide and metropolitan transportation planning, highway project selection and programming, highway needs assessments, project scoping, and management of special projects, and (4) ***public transit***.
1996 - 2017	**Highway Safety Administrator / Traffic Safety Manager / Traffic Safety Engineer, LADOTD, Baton Rouge, LA.** *Highway Safety Engineer / Manager.* Mr. Magri ***administered the activities for the Department's Highway Safety Program Section of the Office of Planning***. Activities related to this Section included ***highway safety policy and program development***, ***traffic safety records***, tort reduction, and the Louisiana Strategic Highway Safety Plan (SHSP). Administered the statewide Highway Safety Improvement Program (HSIP) and coordinated the activities of the nine District Traffic Operations Engineers on all matters dealing with highway safety and the study of crash locations. Served as principal assistant to the Assistant Secretary and the Deputy Assistant Secretary, Office of Planning. ***Directed and implemented the State's first Comprehensive Highway Safety Plan*** (CHSP). This was prior to the SAFETEA-LU (signed into law by President George W. Bush on August 10, 2005) requirement that states develop a SHSP. This effort eventually led to the development of the Louisiana SHSP to comply with SAFETEA-LU. ***Implemented the first safety analysis methodology utilizing the use of Louisiana specific Safety Performance Functions*** (SPFs). The SPF models provide an estimate of the normal or expected crash frequency and severity for a range of

	AADT among similar facilities. Louisiana DOTD still utilizes this methodology today. Developed, implemented, and administered the and ***Local Road Safety Program*** (LRSP). The LRSP is a LADOTD Local Public Agency (LPA) Program that provides local entities the opportunity to utilize federal-aid funds to improve highway safety on their local roadway network. Developed, implemented, and administered and the LADOTD ***Safe Routes to School Program*** (SR2S) which is now the Safe Routes to Public Places Program (SRTPP). Worked with the Louisiana Technical Assistance Program (LTAP) to establish the ***Local Road Safety Program*** (LRSP) outreach to Local Public Agencies (LPA) to facilitate the submission of LRSP applications. Administered the preparation and adoption of the Louisiana Complete Streets Work Final Report (SPN 736-99-1478) resulting in the Louisiana Department of Transportation and Development's first (July 2010) Complete Streets Policy. Served as Louisiana DOTD's voting member of AASHTO's Highway Traffic Safety Sub-Committee on Safety Management and the AASHTO Committee on Safety. Member of NCHRP 17-101 Project Panel Applying the ***Safe System Approach to Transportation Planning, Design, and Operations*** in the United States. Served as a ***Subject Matter Expert*** (SME) for the Transportation Professional Certification Board's (TPCB) exam development for Road Safety Professional (RSP) Level 1 and Level 2 "infrastructure specialty" certification.
1988 - 1996	**Louisiana Department of Public Safety, Louisiana Highway Safety Commission (LHSC), Baton Rouge, LA.** *Highway Safety Engineering Program Manager.* Mr. Magri ***managed the annual statewide highway safety program related to engineering projects from development through implementation to the evaluation of the completed projects***. Developed long range highway safety plans and managed and coordinated with federal, state and local agencies to administer, implement, monitor and evaluate the projects and programs. Prepared program/project budgets and negotiated contracts with state and local project agencies. Managed the state traffic accident records system and the US DOT Fatal Accident Reporting System (FARS).
02/22 – 05/22	**Highway 7 Traffic Impact Study, Precision Engineering Corporation, Oxford, MS.** *Principal Transportationg Engineer.* Mr. Magri performed QA/QC for a study to determine the impact of a proposed residential development to the surrounding networks near Highway 7 in Oxford, MS. The traffic impact study (TIS) included an ***analysis of the expected traffic and safety performance for several scenarios***. The report provided a summary of the existing conditions, trip generation, trip distribution and assignment, Level of Service, and warrant analysis. Horizontal and vertical stopping sight distances were estimated based on design criteria along with storage lengths needed for turning movements into and out of the proposed development.
10/24 - Ongoing	**LA 74 Turn Lane Engineering Design, Ascension Parish Government, Prairieville, LA.** *Principal Transportationg Engineer.* Mr. Magri will be performing ***Safety QA/QC*** for this project. Under Task Order #03 for the Ascension Parish Government's Move Ascension program, Buchart Horn, Inc. will deliver a comprehensive suite of engineering design services for two key intersections along LA 74: L Landry Road and Chester Diez Road. These services are aimed at enhancing traffic operations by analyzing and conceptualizing the implementation of turn lanes. All work will adhere to Louisiana Department of Transportation and Development (LADOTD) standards, ensuring consistency and compliance with state guidelines. The project's structured phases underscore its commitment to precision and functionality, supported by thorough traffic analysis, topographic surveying, and a detailed conceptual layout.

Firm employed by: BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS			
Name	James Q. Dickerson, III, PE, PS	Years of relevant experience with this employer	17
Title	Principal Transportation Engineer	Years of relevant experience with other employer(s)	33
Degree(s) / Years / Specialization		Bachelor of Science / 1974 / Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: 07586 / MS / Exp. 12/2025; PE.0038922 / LA / Exp. 09/2026 Professional Surveyor: PLS-02132 / MS / Exp. 12/2025	
Year registered	1979	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**QA/QC and Technical Advisor (Environmental / Stage 0)**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Dickerson has more than **50 years of professional transportation engineering experience**. He served as District Engineer for the Mississippi Department of Transportation's District Two, where he was responsible for coordinating the planning, designing, construction, and maintenance of the intermodal transportation network in the 17 counties of northwest Mississippi. Mr. Dickerson's areas of expertise include project management, quality assurance, constructability review, and construction engineering and inspection. He has experience on a wide range of projects, with significant experience conducting **Stage 0 Feasibility Studies** throughout the state.
05/21 – 08/22	**Safety Studies IDIQ - US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA.** *Principal-in-Charge with quality control oversight.* Performed a ***Stage 0 safety feasibility study*** along approximately three miles of Airline Highway (US 61) in Laplace, LA and ***develop feasible safety countermeasures*** to address needs on US 61 between Bert Street and Cardinal Drive.
03/21 – 06/23	**Safety Studies IDIQ - LA 3040 Stage 0 Safety Feasibility Study, LADOTD, Houma, LA.** *Principal-in-Charge with quality control oversight.* Responsible for QAQC and technical oversight for the study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA. Assisted with the ***development of safety improvement alternatives and Stage 0 document preparation***.
05/21 – 11/24	**Jefferson Highway at Corporate Intersection Improvements, City of Baton Rouge/Parish of East Baton Rouge, LA.** *Principal-in-Charge with quality control oversight.* Provided design to extend existing and incorporate additional turning lanes, where necessary, to increase storage length and capacity. Additionally, pedestrian facility and driveway access enhancements were made to ***improve safety, pedestrian connectivity to transit facilities, and access management.***
11/13 – 08/19	**Safety Design IDIQ - US 425 Roundabout Design, LADOTD, Rayville, LA.** *Principal-in-Charge with quality control oversight* ***Design of a new six-legged roundabout*** at the intersection of US 425, Grimshaw Street, and Christian Drive and relocation of an existing frontage road, including construction phasing, quantity calculations, ***cost estimates***, and drainage design.
04/14 – 09/17	**LA 19 Widening (LA 64 to Sunset Boulevard), Feasibility and Planning Study, LADOTD, Baton Rouge, LA.** *Principal-in-Charge with quality control oversight.* Prepared a ***Feasibility and Planning Study and Environmental Inventory*** according to the ***LADOTD Manual of Standard Practice*** to evaluate the feasibility of widening 1.4 miles of LA 19 from LA 64 to Sunset Boulevard per the Cooperative Endeavor Agreement (CEA) between LADOTD and the City of Zachary. An additional cost estimate was developed at the request of the client for the widening of LA 19 from LA 64 to Montegudo Boulevard.
12/15 – 01/21	**US 167 Stage 0 Feasibility Study, Elsie Street to Gilbert Drive, LADOTD, Ville Platte, LA.** *Principal-in-Charge with quality control oversight.* The project need was to improve the US 167 corridor so that it will meet minimum DOTD design guidelines

	for rural arterials, which helped to improve safety and operations. The entire study corridor was classified as a high level of service of safety (LOSS), meaning that there was a ***high potential for safety improvement*** due to a high volume of decelerating vehicles along the corridor, inadequate sight distance, and deficient horizontal curvature at the intersection of US 167 and LA 749. The scope of the ***Stage 0 Feasibility Study*** consisted of Data Collection and evaluation, Coordination with LADOTD, ***existing safety analysis***, Evaluation of existing roadway geometrics, ***alternative development and safety analysis***, ***impacts evaluation*** (environmental, cost, right-of-way, wetlands), and a ***benefit cost analysis***.
06/19 – 02/21	**US 167 Stage 0 Feasibility and Planning Study, Enola Street to Ross Road, LADOTD, Ville Platte, LA.** *Principal-in-Charge*. Prepared a ***Stage 0 Feasibility and Planning Study*** of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. ***Environmental impacts and cost estimates*** will be prepared. Responsible for assisting the Project Manager, monitoring the budget and schedule, and quality control oversight.
07/17 – 09/24	**New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA.** *Principal-in-Charge with quality control oversight.* Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, ***preliminary and final roundabout plans and specifications***, right of way maps, SUE, and construction engineering and inspection.
07/17 – 02/22	**LA 931 and Roddy Road Roundabout and Safety Design, Ascension Parish, Gonzales, LA.** *Principal-in-Charge with quality control oversight.* This intersection historically involved ***high frequency and high severity crashes***. This project was funded through the MoveAscension Initiative and addresses traffic mobility and safety issues. Provided ***design services*** for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services included preparing a roundabout report (***crash analysis***, ***cost-benefit analysis***, traffic analysis, speed study, ***safety analysis***), electrical lighting design, subsurface drainage, permit application, ***preliminary and final design plans***, specifications, special provisions, construction estimates, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design complied with state and federal guidelines and received LADOTD review and approval.
04/19 – 08/19	**Citrus Boulevard Improvements Traffic Engineering, Jefferson Parish, LA.** *Principal-in-Charge with quality control oversight.* Provided ***traffic engineering and related services*** for upgrades of two intersections along Citrus Boulevard, in conjunction with roadway improvements, to accommodate the installation of a left turn lane, as well as removal and replacement of detection loops. The project included minor improvements at two intersections: Modification of a traffic signal due to the addition of left turn movement at Edwards Avenue and Citrus Boulevard and removal and replacement of loops at Dickory Avenue and Citrus Boulevard intersection.
03/19 – 11/20	**LA 117 from LA 8 to LA 118 Stage 0 Feasibility Study and Environmental Inventory, LADOTD, Leesville, LA.** *Principal-in-Charge with quality control oversight* Performed a Feasibility and Planning Study (referred to by the LADOTD as a "Stage 0" study) for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study compared correcting vertical and horizontal geometry along with adding shoulders to adding passing lanes and turn lanes at strategic locations. ***Environmental impacts and cost estimates were prepared***.

Firm employed by: digital engineering			
Name	Frank Liang, P.E., PTOE	Years of relevant experience with this employer	30
Title	Practice Lead | Principal Transportation Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 1994 / Civil Engineering	
Active registration number / state / expiration date		PE.0028549 / LA / Exp. 03/26; PTOE #3362 / LA / Exp. 11/27; ATSSA Traffic Control Flagger & Supervisor / Exp. 11/25	
Year registered	1999	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		**QA/QC and Technical Advisor (Low-Cost Safety Design, Ped/Bike/Complete Streets)**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Liang oversees the Transportation Division at Digital Engineering. His experience includes **transportation engineering**, construction management, civil engineering, and project management for the LADOTD, the Regional Planning Commission, and local government agencies. Frank has been involved with SRTS/SRTPPP and LRSP Programs – which evolved into LADOTD Safety Design IDIQ – since the inception of the program nearly 15 years ago and often include **low-cost safety design projects**. He has served as lead engineer for **traffic and transportation analysis, safety studies and improvements of pedestrian and bicycle routes** in accordance with ASSHTO, MUTCD and LADOTD requirements.
04/12 – 09/15	**Pedestrian Crosswalk Enhancements Phase I, LADOTD, New Orleans, LA.** *Principal in Charge/Project Manager* of this Local Road Safety Program ***pedestrian enhancement, signing and pavement marking, and road safety project***. His duties included the development of the ***feasibility report***, coordinating with New Orleans Department of Public Works Traffic Engineering Department on the determination of existing facilities, and assisting in the development and review of the engineering plans for constructability. The scope of this project involved the development of a feasibility study, ***developing design plans***, and providing construction engineering and inspection services for the ***pedestrian safety enhancements of 44 intersections*** within the Central Business District of downtown New Orleans through the installation of LED countdown pedestrian signal heads, installation of roadway striping for crosswalks, and installation of ADA compliant handicap sidewalks and curb ramps.
06/17 – Ongoing	**Pedestrian Crosswalk Enhancements Phase II, LADOTD, New Orleans, LA.** *Principal in Charge* for this ***pedestrian enhancement, signing and pavement marking, and road safety improvement project***. Scope includes new LED pedestrian countdown signals with accessibility features as appropriate at 50 intersections, new rectangular rapid flashing beacons (rrfbs) with advance stop bars at six pedestrian crossings, ***new high visibility crosswalks*** and curb ramps, ancillary facilities (wiring, pedestals, etc.) for ***pedestrian signals and beacons***, and new roadway signage.
02/17 – 11/18	**Local Road Safety Program - City of Kenner Signs and Striping, LADOTD, Kenner, LA.** *Principal in Charge* for this Local Road Safety Program signing and pavement marking project. His duties included assisting in the development of the ***feasibility report*** and assisting in the development and review of the ***engineering design plans*** for constructability. The scope of this project consisted of the development of a feasibility study, developing engineering plans, and providing construction engineering and inspection services (CE&I) for the replacement of 11 miles of roadway signage and striping (including crosswalks) along a number of local roadways the City of Kenner to improve safety along these corridors.
10/18 – 04/19	**Stage 0 Feasibility Study- Selected Corridors, LADOTD, Hammond, LA.** *Principal in Charge* for a ***Stage 0 feasibility study*** for the selected corridors of West Church Street, Corbin Road, Mooney Avenue, Coleman Avenue, and JW Davis Road that focused

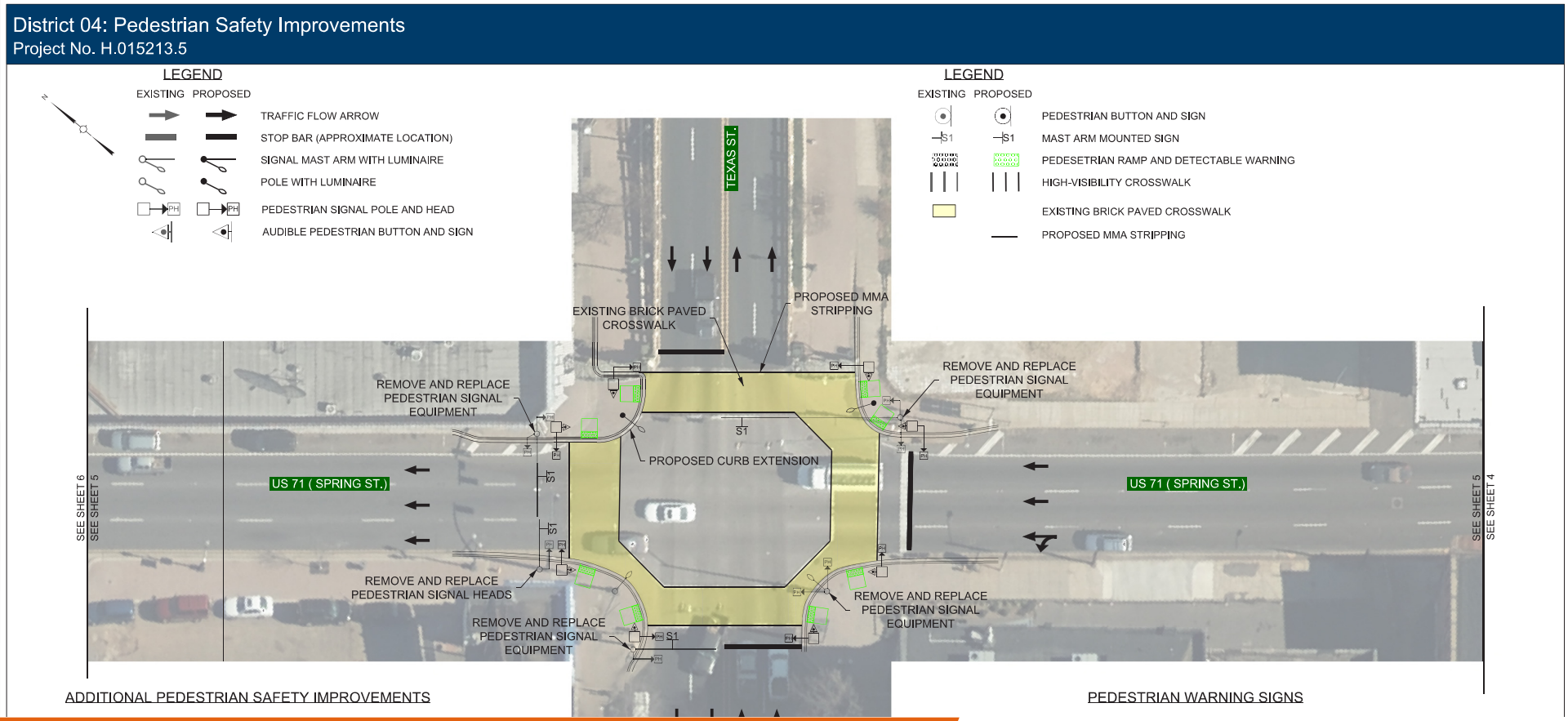
	on ***accessibility and connectivity improvements*** such as sidewalk replacements, addressing non-compliant ADA handicapped curbs and ramps, bike lane markings, and shared lane markings. These improvements were part of the City of Hammond's Bicycle/Pedestrian Master Plan. ***Conceptual Plans***, ***Cost Estimates***, ***Stage 0 Environmental and Budget Checklists*** were performed as part of the ultimate Study.
05/20 – 05/21	**Port of Gulfport Access Project Environmental Assessment, Gulfport, MS.** *Principal in Charge* responsible for overall management and coordination of the project team performing the ***traffic evaluation and preliminary roadway geometric design*** required for the NEPA report. Frank reviewed the projected traffic volumes, traffic analysis and traffic signal timing performed for the US 90 and 30th Avenue intersection. He also manages the preliminary geometric design for the proposed roadway improvements along the entire project corridor. In addition to vehicular requirements, pedestrian and bicycle requirements were also considered along the project corridor. Frank coordinates with various agencies (MDOT, GRPC, City of Gulfport, etc.) and attend public meetings throughout the development of these proposed improvements for the NEPA report.
04/16 – 10/19	**Marconi Drive Shared Use Path, LADOTD, New Orleans, LA.** *Principal in Charge* for the ***Stage 0 Feasibility Study*** and ***design*** for this ***pedestrian enhancement project***. His duties included the attendance of site visits, development of the feasibility study, coordination with landscape architects, and review of the engineering plans of the proposed improvements for constructability. The feasibility phase considered alternates of a path down Zachary Taylor Drive from Marconi Drive to Pan American Stadium or a path along Marconi Drive from Harrison Avenue to Zachary Taylor Drive. Due to constructability reasons and costs, the latter was chosen. The final scope of work involves the addition of a 3,300-foot-long by 10-foot-wide multiuse path along Marconi Drive from Harrison Avenue to Zachary Taylor Drive. This connection ***provides a safe connection for leisure bicyclists and pedestrians along Marconi Drive***.
11/17 – 11/24	**Stage 0 Feasibility Study and Design – W. Judge Perez Road, NORPC, St. Bernard Parish, LA.** *Senior Principal in Charge* on the feasibility study for NORPC to identify alternatives along the W. Judge Perez Drive (LA 39) corridor between Rowley Boulevard and Pakenham Drive to ***improve safety for all users with emphasis on nonmotorized traffic safety***. Responsible for the oversight of planning and engineering of the site investigations, data collections, ***preliminary drawing layouts***, ***cost estimating***, and final report. The project also included the developement of ***preliminary and final design plans*** for propsoed safety improvements.
12/17 – 06/18	**Covington Bicycle Plan Feasibility Study, Covington, LA**. *Lead Engineer* responsible for a feasibility study for a bicycle master plan for the purpose of linking neighborhoods with downtown Covington, schools, parks, commercial centers, and other public facilities. The team also inventoried sidewalk conditions on selected federal-aid eligible routes to identify new or missing sections necessary to ***comply with the ADA standards.***
10/13 – 07/14	**Stage 0 Feasibility Study-David Drive (Veterans Boulevard to Airline Drive), Jefferson Parish, LA**. *Project Manager* for A study to develop and evaluate the potential for improving David Drive as a ***multi-modal complete streets corridor***. Two alternative concepts were developed to ***increase safety for all modes of transportation including bike/pedestrian*** and opportunities for sidewalk and landscaping enhancements. DE also examined the potential use of adjacent power line right-of-way which is located behind businesses on the west side of the corridor for a new local collection street with potential for parking, transit, and bike/pedestrian facilities.

Firm employed by. ARCADIS

Name	**Lloyd "Buddy" Porta, Jr., PE**	Years of relevant experience with this employer	13
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. 09/2025	
Year registered	1977	Discipline	Civil Engineering, Environmental Engineering
Contract role(s) / brief description of responsibilities		**QAQC and Technical Advisor (Roadway)**	

Experience dates	Experience and qualifications relevant to the proposed contract
	Mr. Porta brings more than **50 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 TIMED Program Manager. This $5 billion program was developed to multi-lane over 500 miles of state highways as well as construct 3 new bridges, 2 of these bridges across the Mississippi River. He spent the last 5 years of his career at LADOTD as the **State Road Design Engineer Administrator.**
11/14 – 10/15	**Safety Studies IDIQ - LA 44 and Loosemore Road Roundabout, LADOTD, Ascension Parish, LA.** *Technical Advisor.* Provided design oversight and technical advisory role for the ***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.
12/13 – 06/15	**Safety Studies IDIQ - LA 3235 Corridor Safety Improvements, LADOTD, Lafourche Parish, LA.** *Technical Advisor.* Provided design oversight and technical advisory role for the ***geometric layout*** of safety improvements including ***access management, restrictive intersections***, and added turn lanes. Reviewed ***construction cost estimates*** for proposed improvements to assess ***feasibility*** of proposed alternatives.
07/15 – 05/19	**Safety Design IDIQ - US 190B at Jefferson Ave. Roundabouts, LADOTD, Covington, Louisiana.** *QA / QC Reviewer.* Supported the construction of a new roundabout in Covington as a ***quality assurance/quality control reviewer for roadway plans***. Plans reviewed included the ***construction of sidewalk for use by pedestrians***.
09/09 – 03/12	**I-20 Garrett Road Connector Interchange Improvements, LADOTD, Ouachita Parish, LA.** *Technical Advisor.* Provided design oversight and technical advisory role for the ***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 outside of the interchange. ***Improvements to the pedestrian and bicycle facilities*** were included in accordance with the ***LADOTD Complete Streets Policy***.
04/12 – 01/14	**US 11 Norfolk Southern Railroad Overpass Replacement Environmental Assessment and Line and Grade Study, LADOTD, Slidell, Louisiana.** Responsible for ***LADOTD design guideline compliance***. 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.

01/14 – Ongoing	**Pete's Highway EA and Alternatives, LADOTD, Livingston Parish, Louisiana.** Responsible for ***QAQC of roadway plans, line and grade, and LADOTD design guideline compliance***. High-priority project completing an EA and traffic engineering services related to improving congestion and operations along Range Avenue in the vicinity of the I-12. Alternatives included 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.
10/16 – 02/18	**North Bayou Black Drive Bridge Off-System Highway Bridge Replacement Program, LADOTD, Terrebonne Parish, Louisiana.** Reviewed plans for the replacement of an off-system highway bridge. Detailed designed effort included field surveying, right of way adjustments, crash barrier selection, hydraulic analysis, ***preliminary and final plan preparation*** and cost estimates.
09/12 – 12/15	**US 165 Connector and Ouachita River Bridge - Environmental Impact Statement, Line and Grade and Toll Study, LADOTD, Monroe, Louisiana.** Responsible for ***QAQC of roadway plans, line and grade, and 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.
04/12 – 01/14	**LA 434 Corridor Stage 1 Environmental Assessment, New Orleans Regional Planning Commission, Lacombe, Louisiana.** Responsible for ***LADOTD design guideline compliance***. EA for the widening and improvements of LA 434 between LA 36 and the anticipated new junction with LA 3241 near LaCombe, Louisiana in St. Tammany Parish.
10/90 – 10/01 10/05 – 10/10	**Urban System Program MPOs & Urbanized Areas, Statewide, Louisiana.** Responsible for the selection of the consultants, coordinating with the Metropolitan Planning Officials (MPOs) and the cities/parishes officials, ***coordinating with the LADOTD Planning Section***, ***developing the scope of services and fee*** for the projects, ***reviewing the construction plans*** and providing comments to the consultants and cities / parishes, and approving all invoices. Mr. Porta was responsible for developing the Urban Systems Program Seminar, which provided information on the processes and procedures used in the program. He served as project manager for signal projects in St. Bernard and Orleans Parishes.
09/01 – 05/06	**Transportation Infrastructure Model for Economic Development (TIMED) Program, LADOTD, Statewide, Louisiana.** L*ADOTD TIMED Program Manager.* Worked and coordinated on a daily basis with the TIMED Program Manager (LTM) to develop training, procedures, policies, and guidelines for the program. This $5 billion program was developed to ***multilane over 500 miles of state highways as well as construct three new bridges;*** two of these bridges across the Mississippi River. The program manager was required to monitor the progress of the program and had full invoice approval of the consultant's monthly invoice. This position was a member of the TIMED Program Executive Committee and reported to the Secretary of the LADOTD. There were 16 projects that were recognized throughout the state. Bonds were sold to finance and, therefore, accelerate the program. Over 500 miles of state roadways were multilaned and three new bridge projects were designed.
05/06 – 07/10	**Road Design Engineer Administrator, LADOTD, Statewide, Louisiana.** Responsible for transitioning the focus of his section from project management back to ***roadway design*** as desired by the Chief Engineer. To support this mandate, brought in training from the FHWA Resource Center in Atlanta, GA to assist the development of a young group. Coordinated the training and provided through the Louisiana Transportation Training Education Center. Developed a Legal Seminar to address the lack of experience in Road Design and other LADOTD sections in depositions and representing the Department in court with the assistance of the Attorney General's Office. Responsible for the ***development of design criteria for Offset Left Turn Lanes and design guidelines for the replacement of bridges on state routes.***



Proposed Safety Countermeasures developed under our Safety Studies IDIQ.

Arcadis Past Performance Review:
Safety Studies IDIQ - District 04 Pedestrian Safety Improvements

"Arcadis provided technically accurate deliverables with thorough documentation through all project components. They appropriately identified next steps for each project and used available research and studies to make recommendations for implementation at project sites. The consultant displayed knowledge of the Highway Safety Manual, CMF Clearinghouse, and best practices for analyzing locations for pedestrian improvements."

- Jessica DeVille, LADOTD Highway Safety Section

17 FIRM EXPERIENCE:

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	**IDIQ Contract for Safety Studies**	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

Firms Role: Conducted traffic and *safety studies* to develop feasible alternatives to improve safety.

Firm Members Involved: Akhil Chauhan, Ari Deitch, Jose M. Rodriguez, Max Aguirre, David Fulks, Justin Maderia

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.

NO Ped Study: Implemented low-cost safety improvement on Read Blvd High-Visibility Crosswalk and Refuge Island

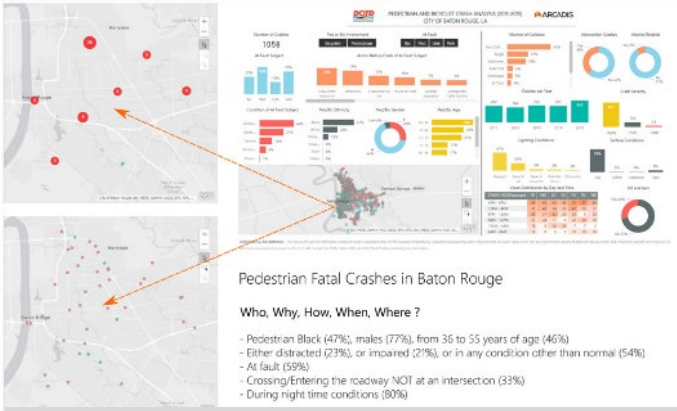
New Orleans Pedestrian Safety Feasibility Study, Orleans Parish

- 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 methods*.
- Coordinated closely with LADOTD and NORPC to develop context sensitive solutions.
- Provided *Stage 0 Documentation* - 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: Identified 10 locations with highest risk of ped / bike 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.*



BR PBSAP: Custom dashboard using range of data to identify priority areas of implementation of safety countermeasures

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**IDIQ Contract for Safety Studies – District 04 Ped Safety Improvments**	Firm responsibility (prime or sub?)	Prime
Project number	H.015213.1	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Caddo and Bossier Parishes, LA	Owner's Project Manager	Jessica DeVille
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1844, jessica.deville@la.gov		
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost ($1,000's)	$268
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm ($1,000's)	$258

Firms Role: Performed a *Safety Feasibility Study* for 7 corridors within Caddo and Bossier Parishes that have a high potential for pedestrian safety improvements to *identify and evaluate low-cost pedestrian safety countermeasures*.

Firm Members Involved: Ari Deitch, Akhil Chauhan, Max Aguirre, Jose L. Rodriguez, Jose M. Rodriguez, Jason Morrell

Relevant Services

- Safety Feasibility Study
- Data Collection
- Historical Safety Analysis
- On-Site Field Reviews
- Stakeholder Engagement
- Countermeasure Selection
- Concept Drawings
- Predictive Safety Analysis
- Construction Cost Estimates
- Benefit-Cost Analysis
- Environmental Review
- Stage 0 Checklists / Report

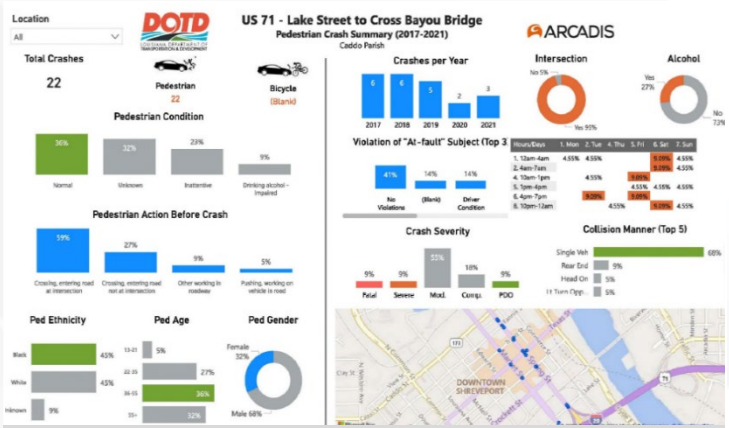


Figure: Custom Dashboard showing Historical Pedestrian Crash summary (2017-2021) on US 71 in Downtown Shreveport.

Project Background: Study locations were identified through the Louisiana Pedestrian Crash study prepared by CARTS. Locations were furthered screened through *collaboration with the District 04 DTOE* based on local knowledge of historical safety issues and pedestrian activity. Utlimately, 7 locations were selected for inclusion in the Stage 0 Study.

Study Methodology: The Stage 0 Study utilized a methodology similar to that of a *Road Safety Assessment*. Detailed histrorical crash analysis was performed for each location to identify areas of concern. *On-site field reviews* were performed for areas of concern to document existing condition of pedestrian facilities and activity and assess the feasibility of potential pedestrian safety countermeasures. Countermeasures were vetted through stakeholder engagement, *geometric layouts*, *construction cost estimates*, and *benefit-cost analysis* (BCA). Expected benefits of safety improvements were quantified through the application of *Crash Modification Factors (CMFs)*

Stakeholder Engagement: Stakeholder engagement was a major component of the study. Stakeholders were identified at the beginning of the project and included LADOTD, City of Bossier, City of Shreveport, NLCOG, Downtown Development Authority, etc. *Stakeholders had significant input in the selection of safety countermeasures, which facilitated the incorporation of context sensitive solutions* that would be appropriate for the area and would have the support of state and local agencies.

Stage 0 Documentation: Separate *Stage 0 Reports* were provided for all 7 study locations, each containing a benefit-cost analysis to prioritize implementation. *Preliminary Scope and Budget* and *Environmental Checklists* were included with each Stage 0 Report.

Figure: On-Site Field Review of Project Site with High Potential for Pedestrian Safety Improvements

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**IDIQ for Safety Studies – LA 3235 Stage 0 Safety Feasibility Study**	Firm responsibility (prime or sub?)	Prime
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)	10/13	Total consultant contract cost ($1,000's)	$473
Services completed by this firm (mm/yy)	03/15	Cost of consultant services provided by this firm ($1,000's)	$315

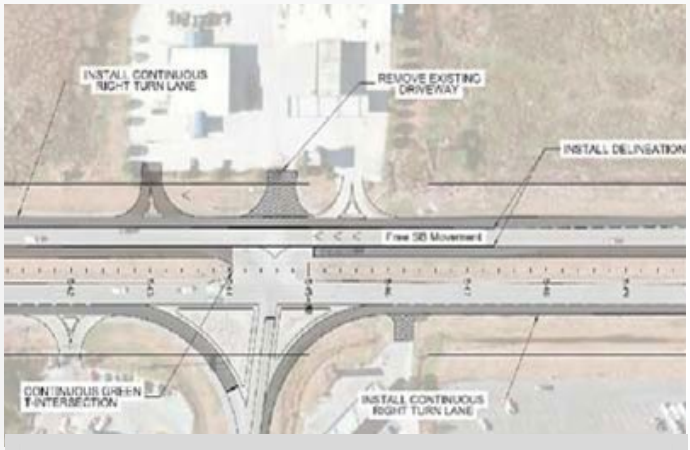


Figure: Proposed Access Management and Intersection Improvements to Reduce Conflict Points on LA 3235

Firms Role: The Arcadis team performed a formal corridor/intersection and *Stage 0 Safety Feasibility Study* evaluation to *enhance mobility and safety* on the LA 3235 corridor.

Firm Members Involved: Akhil Chauhan, Ari Deitch, Justin Maderia, David Fulks

LA 3235 is a high-speed corridor with heavy truck traffic, clustered commercial and residential land use, full access median openings, and a history of high crash severity. Several fatalities have occurred on the facility during the 3-year analysis period. The goal of the study was to *identify safety countermeasures* that seek to address safety deficiencies and improve the overall safety and mobility of the corridor.

Relevant Services

- Stage 0 Feasibility Study / Checklists
- Historical Crash Analysis
- Traffic and Signal Warrant Analysis
- Innovative Intersections
- Safety Countermeasures
- Geometric Design / Layouts
- ROW and Environmental Impacts Assessment
- Construction Cost Estimate
- Public / Stakeholder Involvement

Stage 0 Safety Feasibility Study: Arcadis conducted a Stage 0 feasibility study to evaluate the viability of *safety improvement alternatives and countermeasures*. The study involved traffic data collection and analysis, historical crash analysis, predictive safety methods, alternative development, cost estimates, public and stakeholder meetings, and Stage 0 checklists. Arcadis employed advanced *Highway Safety Manual methodologies* to evaluate the *effectiveness of proposed alternatives* in addressing crashes.

Alternative Development / Evaluation: Alternatives focused on the use of *access management* and *innovative intersections* to *reduce conflict points* and speed differentials that are contributing to crashes. Design features were developed in accordance with LADOTD minimum guidelines such as EDSM VI.3.1.6, "Installation of New Traffic Signals," IV.2.1.4, "Median Openings on Divided Multi-Lane Roadways," and DOTD's "Access Connections Policy." *Preliminary design drawings* were developed to evaluate feasibility of alternatives and identify potential right-of-way and *environmental impacts*. Safety benefits were estimated by conducting a predictive safety analysis using *Safety Performance Functions* and *Crash Modification Factors*.

Construction Cost Estimates: Construction cost estimates were generated for alternatives using LADOTD historical bid information and cost estimating tools. These estimates identified both construction and engineering costs as required in *Stage 0 checklists*.

Figure: Implemented Continuous Green-T Intersection Concept at LA 3235 and LA 3162

Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Traffic
Project name	**Louisiana Strategic Highway Safety Plan Update**	Firm responsibility (prime or sub?)	Sub
Project number	H.972419.1	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Statewide, LA	Owner's Project Manager	Autumn Goodfellow-Thompson
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1838, autumn.goodfellow-thompson@la.gov		
Services commenced by this firm (mm/yy)	04/21	Total consultant contract cost ($1,000's)	$500
Services completed by this firm (mm/yy)	06/22	Cost of consultant services provided by this firm ($1,000's)	$130

Firms Role: Responsible for all *safety data analysis* tasks for the *Louisiana Strategic Highway Safety Plan Update*.

Firm Members Involved: Jose M. Rodriguez, Ari Deitch, Justin Maderia

Relevant Services

- Crash Data Review and Analysis
- Statistical Analysis Methods
- Safety Effectiveness Evaluation
- Interactive Data Dashboards
- Literature Review / Best Practices
- Strategic Highway Safety Plan
- Stakeholder / Agency Coordination

Fatalities + Serious Injuries

Person Count	EAs	EAs %
10,711	10,490	97.9%

Emphasis Areas	PersonCount	CF%
Lane Departure	5,963	55.7%
Intersection	3,359	31.4%
Roadway Departure New	3,273	30.6%
Distracted or Inattentive New	3,161	29.5%
Young Driver	2,941	27.5%
Drug Involved	2,737	25.6%
Alcohol Related New	2,681	25.0%
No Restraint	2,482	23.2%
Older Driver	1,637	15.3%
Pedestrian	1,523	14.2%
Motorcycle	1,201	11.2%
CMV	1,008	9.4%
Lane Departure/Head-On	812	7.6%
Pedalcycle	372	3.5%
Off-Road Vehicle	171	1.6%
Work Zone	99	0.9%
Train	39	0.4%
Total	**10,490**	**97.9%**

Figure: Power BI Dashboard Showing Emphasis Area Analysis Results

Crash Data Review and Data Definitions:

Arcadis *obtained and analyzed 10 years of crash* data (2011-2020) from the Center for Analytics Research and Transportation Safety (CARTS). Arcadis performed a preliminary analysis to verify that crash data is suitable for emphasis areas (EAs) analysis. Arcadis *coordinated closely with LADOTD, CARTS, and project stakeholders* to develop a crash data definitions memorandum to document the definitions that will be used in the SHSP update.

Existing Emphasis Areas Analysis:

Arcadis conducted traditional *statistical crash analysis* to evaluate trends within the existing emphasis areas and determined the *effectiveness of safety improvement strategies*. Results were presented in *interactive dashboards developed using Microsoft Power BI.* Several project meetings were conducted with LADOTD and project stakeholders to review results and discuss potential alternatives to EAs and analysis methodologies.

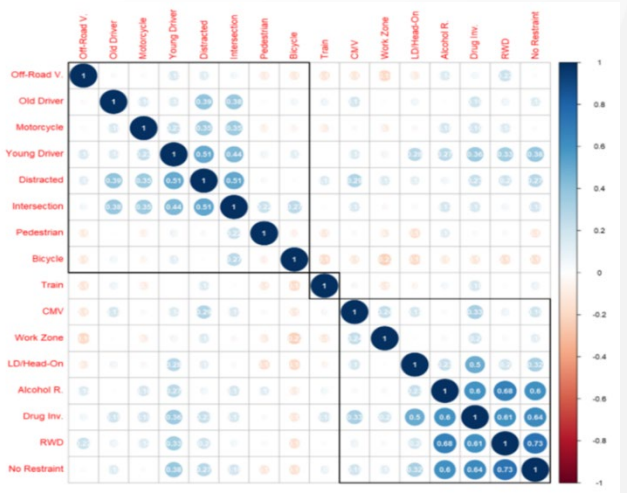


Figure: Correlation Cluster Analysis of Contributing Factors for Fatal and Serious Injury Crashes

Alternative Emphasis Areas Analysis:

Arcadis performed a *literature review of best practices* and SHSPs that have been developed for other states to identify a range of potential EAs analysis alternatives. Arcadis is currently performing preliminary analysis of EAs alternatives and reviewing results alongside project stakeholders to determine if alternative methodologies should be incorporated in the SHSP update. *Correlation Cluster Analysis* was performed to determine the interdependency of emphasis areas and contributing factors.

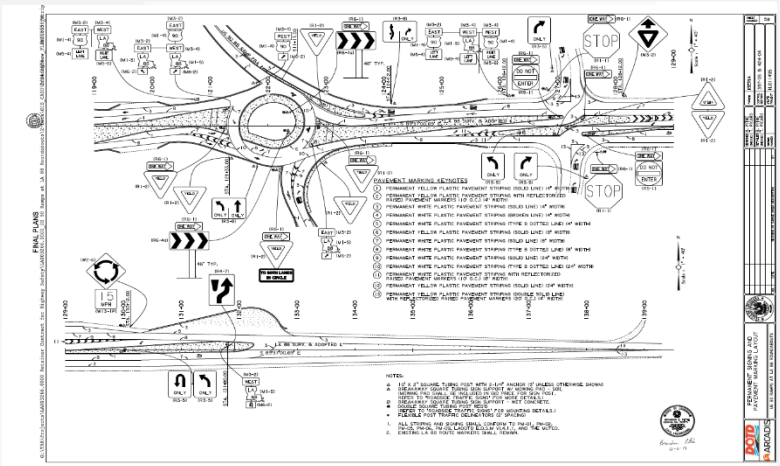
Firm name	ARCADIS	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project name	**Safety Design IDIQ - US 90 Ramps at LA 88 Roundabouts**	Firm responsibility (prime or sub?)	Sub
Project number	H.011495	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	New Iberia Parish, LA	Owner's Project Manager	Brent Domingue
Owner's address, phone, email	428 Hugh Wallis Rd, Lafayette, LA 70508, 337 262 6210, christopher.domingue@la.gov		
Services commenced by this firm (mm/yy)	11/16	Total consultant contract cost ($1,000's)	$549
Services completed by this firm (mm/yy)	05/20	Cost of consultant services provided by this firm ($1,000's)	$504

Firms Role: Arcadis was tasked to prepare *preliminary and final roadway plans* to install two single lane roundabouts at the US 90 ramp intersection with LA 88 in Iberia Parish. The project also included modifying the LA 88/Service Road intersections to restricted crossing U-turn (RCUT) intersections. The *installation of the roundabouts is aimed at promoting mobility and safety along the corridor*.

Firm Members Involved: David Fulks, Buddy Porta, Ari Deitch, Max Aguirre, Akhil Chauhan

Relevant Services

- Preliminary and Final Design Plans
- Alternative Intersection Design
- Construction Cost Estimates
- Safety Design
- Agency Coordination



Roundabout design and signing plan at interchange ramps to enhance safety and operations

Preliminary and Final Design Plans: Arcadis performed all engineering services for this task order to develop a full set of preliminary and final construction plans, including InRoads modeling of the roundabouts, as a pass-through from Aucoin & Associates under their safety design retainer contract. The *design was prepared in accordance with the LADOTD Design Guidelines, Roadway Design Procedures and Details Manual and all applicable DOTD EDSMs, AASHTO and FHWA guidelines*. The roundabouts were designed to accommodate a WB-67 design vehicle. Restricted crossing U-turn (RCUT) intersections were designed for the adjacent service roads to enhance safety and adhere to LADOTD's control of access policy. Both the roundabouts and RCUT intersections *provide significant reductions in conflict points and expected number of crashes*.

Construction Cost Estimates: Arcadis prepared engineer's *construction cost estimates* for the project.

Best Practice: The project team held several design review meetings throughout preliminary plan and final plan development to more *closely coordinate with LADOTD District 03 and headquarters personnel* prior to proceeding into subsequent design phases. The goal of this team coordination was to ensure all project team members agreed with proposed geometry prior to spending significant time proceeding into the subsequent design phases.

Completed construction of roundabout and safety improvements at US-90 and LA-88 Interchange

Firm name	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**Safety Studies IDIQ - US 61 (Airline Highway) from Cardinal Drive to Bert Street**	Firm responsibility (prime or sub?)	Prime
Project number	H.014305.1	Owner's name	LADOTD
Project location	LaPlace, LA	Owner's Project Manager	Trey Jesclard
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225 379 1232, Trey.Jesclard@la.gov		
Services commenced by this firm (mm/yy)	01/21	Total consultant contract cost ($1,000's)	$160
Services completed by this firm (mm/yy)	06/23	Cost of consultant services provided by this firm ($1,000's)	$122

Firms Role: BH performed a study to identify safety issues along approximately two miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s).

Firm Members Involved: Jimmy Dickerson, Cal Joy, Hugo Leiva, Joseph Mingo

Safety Feasibility Study Scope: The approximate intersection termini are Bert Street and Cardinal Drive. The study includes *historical crash analysis, traffic analysis*, safety analysis using *Highway Safety Manual* methods, alternative analysis and design, *preliminary scope and budget checklist*, environmental investigation and checklist, and an *opinion of probable cost*, as well as public and state and local official meetings.

Figure: US 61 Collision Diagrams

Relevant Services

- Stage 0 Safety Feasibility Study
- Data Collection
- Historical Crash Analysis
- Highway Safety Manual Methods
- Alternative Development
- Geometric Layouts
- Env & ROW Impact Assessment
- Construction Cost Estimates
- Stage 0 Checklists
- Stage 0 Documentation

Figure: Existing Conditions on US 61 Showing Median Treatments

Purpose and Need: This corridor has a lot of excess driveways and high volumes during peaks; as well as, an accident prone two-way left-turn lane.

Alternative Development / Safety Countermeasures: Alternatives were developed both at a corridor and intersection level. Corridor-level *safety countermeasures* included *driveway consolidation*, *raised medians*, and barrier curb. Intersection countermeasures typically included roundabouts, and *restrictive intersection types* such as R-CUTs, MUTs and displaced left-turns.

Firm name	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	**Roddy Road and LA 931 Roundabout and Safety Design**	Firm responsibility (prime or sub?)	Prime
Project number	MA-18-10	Owner's name	Ascension Parish
Project location	Gonzales, LA	Owner's Project Manager	Kenny Matassa
Owner's address, phone, email	PO Box 2392, Gonzales, LA 70707, 225 450 1012, kmatassa@apgov.us		
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost ($1,000's)	$629
Services completed by this firm (mm/yy)	02/22	Cost of consultant services provided by this firm ($1,000's)	$500

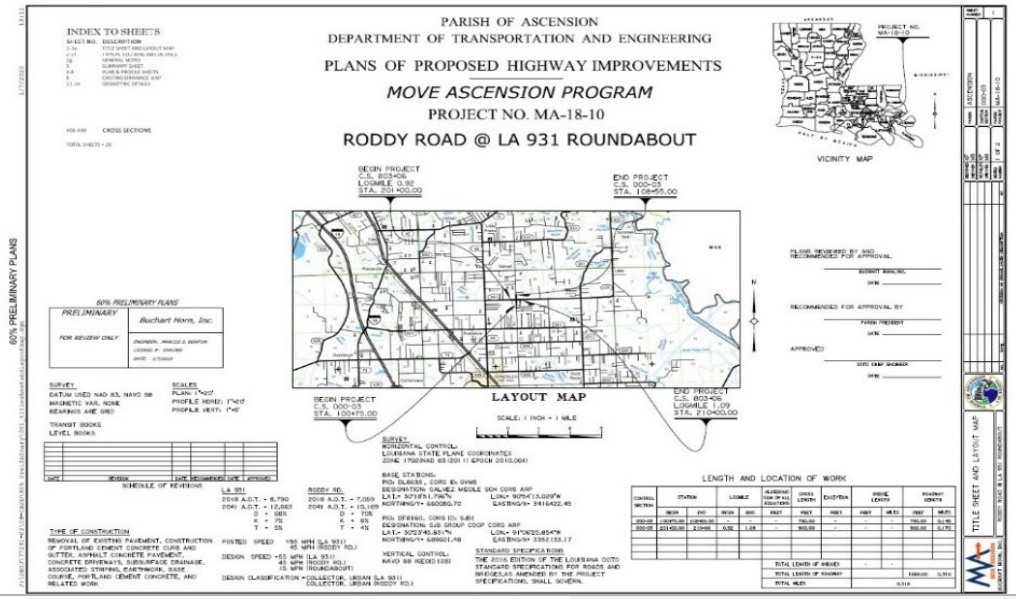
Firms Role: Provided *a feasibility report and safety design services* for the intersection improvements and roundabout study/design for the intersection of Roddy Road and LA 931. This intersection historically experienced a high frequency and high severity of crashes.

Firm Members Involved: Jimmy Dickerson, Cal Joy, Joseph Mingo

Roundabout Feasibility Study and Report: Although Roddy Road is a Parish roadway, the fact that it intersects with a State Route triggered the need for LADOTD review and approval. BH *successfully implemented the Traffic Engineering Process and Report* in the study and design and received approval from LADOTD for a project permit at this location. BH prepared a *roundabout report* (*crash analysis, benefit-cost analysis*, traffic analysis, speed study, *safety analysis*) prior to initiating design services.

Relevant Services

- Feasibility Study
- Roadway Safety Design
- LADOTD Minimum Design Guidelines
- Roundabout Report
- Historical Crash Analysis
- Benefit-Cost Analysis
- Construction Cost Estimate
- Preliminary and Final Plans



Roadway Safety Design Services: BH provided *design services for a new single-lane asphalt roundabout* at the intersection of LA 931 and Roddy Road in Gonzales, LA., electrical lighting design, subsurface drainage, permit application, *preliminary and final design plans*, specifications, special provisions, construction estimates, and engineering calculations. The design complies with state and federal guidelines.

While the project was delivered through the Move Ascension program, LA 931 is part of the state highway system. As such, *agency coordination was required to obtain approvals from state and local stakeholders*. All reports and plan submittals were provided to LADOTD for review and approval.

Firm name	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	**Safety Studies IDIQ – LA 3040 Corridor Improvements**	Firm responsibility (prime or sub?)	Prime
Project number	H.013322.1	Owner's name	LADOTD
Project location	Houma, LA	Owner's Project Manager	Bryan Costello
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, 225 379 1958, bryan.costello@la.gov		
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost ($1,000's)	$304
Services completed by this firm (mm/yy)	06/23	Cost of consultant services provided by this firm ($1,000's)	$279

Firms Role: Performed a study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered.

Firm Members Involved: Jimmy Dickerson, Cal Joy, Joseph Mingo

Safety Feasibility Study Scope: The study limits extended from the intersection of LA 3040 at West Main Street (LA 24) to the intersection of LA 3040 at South Hollywood Road. The study includes *road safety assessments*, traffic analysis, *alternative analysis and design*, *preliminary scope and budget checklist*, *environmental documentation and checklist*, and an *Opinion of Probable Cost*, as well as public and state and local official meetings.

Purpose and Need: The project corridor has a history of safety issues related to a high number of access points and conflicts along the corridor. Low-cost access management improvements have been attempted previously but offer room for improvement. BH is providing our extensive Stage 0 experience to solve these safety issues and supply our client with the *best alternative that addresses the context and needs of the community*.

Alternative Development and Analysis: Alternatives focused on more effective applications of access management over what had been previously installed. *Access management improvements* included installing *raised medians*, *superstreet concepts*, turn lane improvements, and driveway consolidation. *Geometric layouts* were produced for all alternatives as a basis for *determining project impacts and cost*.

Relevant Services

- Stage 0 Safety Feasibility Study
- Data Collection
- Historical Crash Analysis
- Highway Safety Manual
- Road Safety Assessments
- Alternative Development
- Geometric Layouts
- Env & ROW Impact Assessment
- Construction Cost Estimates
- Stage 0 Checklists
- Stage 0 Documentation

Figure: Build concept showing raised median with formalized u-turn location to reduce conflict points.

Firm name	digital engineering	Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	**Safe Routes to School Program: New Orleans DPW Sidewalk Project and Multi-Modal Safety Improvements**	Firm responsibility (prime or sub?)	Prime
Project number	H.009308	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	New Orleans, LA	Owner's Project Manager	Laura Riggs, P.E
Owner's address, phone, email	PO Box 94245, Baton Rouge, LA 90804; 225 379 1143; laura.riggs@la.gov		
Services commenced by this firm (mm/yy)	11/17	Total consultant contract cost ($1,000's)	$192
Services completed by this firm (mm/yy)	09/21	Cost of consultant services provided by this firm ($1,000's)	$192

Firms Role: The goal of this project is to *implement pedestrian and bicycle safety improvements* along corridors and intersections to increase the number of students who walk and bike to five (5) schools throughout Orleans Parish: Einstein Charter Elementary, Einstein Charter Middle, Success Preparatory Academy, Audubon Charter School, and E.P. Harney Spirit of Excellence Academy Charter School.

Relevant Services

- Low-Cost Safety Design
- Pedestrian and Bicycle Safety Improvements
- HAWK Signal Design
- Stakeholder/Agency Coord.
- Stage 0 Feasibility Study
- Construction Cost Estimates
- Stage 0 Documentation

Firm Members Involved: Frank Liang, David LeBreton, Taylor Marino, Michael Flynn

Stage 0 Feasibility Study and Design: During the Feasibility Phase, DE met with the LPA and SRTS/SRTPPP Project Manager to review the project goals, conduct a site visit to observe each of the locations, and prepare a project report that included a detailed project scope, *cost estimates for engineering and construction*, and a time schedule for project completion. The typical scope for all five sites included removal and r*eplacement of over 5,000 square yards of concrete sidewalks, 82 (each) handicapped curb ramps, and over 5100 linear feet of high visibility crosswalk striping and stop bars* at intersections. Outside of the typical scope, the project included a number of safety features at the sites:

- In line with the City of New Orleans' Bicycle Master Plan, a 10' wide *multi-use path* spanning over 3,600 linear feet is being placed in the median along Michoud Boulevard adjacent to the Einstein Elementary and Middle School Sites
- Audubon Charter and E.P. Harney will receive *Flashing Beacons to increase awareness of pedestrians in their school zones*
- Success Preparatory and E.P. Harney will receive *pedestrian signal heads (w/ APS)* retrofitted onto existing signals at key intersections adjacent to the school sites, with Success Preparatory' s area also *implementing a Pedestrian Hybrid Beacon Assembly (HAWK)* near the Lafitte Greenway, a highly traveled and key pedestrian/bicycle corridor
- Lastly, the scope in the Success Preparatory area required a road diet on Bienville Street from N. Carrolton Street to Jefferson Davis Parkway to implement a *buffered bicycle lane and striped parking area*. The corridor received bicycle lane pavement markings, legends, and flex posts to increase safety for bicycle users along this corridor

Agency Coordination: All *installation of pedestrian crosswalks and countdown signals* required approval from the District Traffic Operations Engineer in accordance with LADOTD policies and procedures. All work is being performed accordance with LADOTD standards and requirements and the latest edition of the MUTCD. *Key components to the project are communication and collaboration as LADOTD (HQ & District), the LPA, five schools, and the CNO Bicycle Committee are all involved in this project.*

Firm name	digital engineering	Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	**Stage 0 Feasibility Study and Design – Broad Street and Read Blvd Pedestrian Intersection Improvements**	Firm responsibility (prime or sub?)	Prime
Project number	H.013094	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	New Orleans LA	Owner's Project Manager	Laura Riggs, P.E.
Owner's address, phone, email	PO Box 94245, Baton Rouge, LA 90804; 225 379 1143, laura.riggs@la.gov		
Services commenced by this firm (mm/yy)	09/17	Total consultant contract cost ($1,000's)	$255
Services completed by this firm (mm/yy)	02/18	Cost of consultant services provided by this firm ($1,000's)	$255

Firms Role: DE provided a *Stage 0 Feasibility Study* and *design plans* for this project that seeks to increase the number of pedestrians who walk or ride bikes in the City of New Orleans. The two project locations include a 3/4-mile portion of the Broad Street corridor from Tulane Avenue to Lafitte Greenway Bike Path and a 1/4-mile length of roadway along Read Boulevard that exists under Interstate 10 from the north service road to the south service road.

Relevant Services

- Low-Cost Safety Design
- Pedestrian Safety Improvements
- HAWK Signal Design
- Context Sensitive Solutions
- Stakeholder/Agency Coord.
- Stage 0 Feasibility Study
- Construction Cost Estimates
- Preliminary and Final Design Plans

Firm Members Involved: Frank Liang, David LeBreton, Taylor Marino, Michael Flynn

Read Boulevard Improvements: The project scope for the Read Boulevard section of the project includes the *removal of existing concrete walks and replacing with shared-use paths along Read Boulevard* from the North I-10 Service Road to the South I-10 Service Road. *ADA curb ramps* will be added at all intersections and on/off ramp crosswalks. Appropriate crosswalk striping will be removed and replaced to be at all crossings along this stretch of the project. *LED pedestrian countdown signal heads* will be added to the existing I-10 Service Road locations. During the Feasibility phase, extensive outreach was required on the Broad Street portion of the project as it is a major business corridor and includes some portions in New Orleans' historical district.

Broad Street Improvements: The project scope for the Broad Street section of this project includes removal and *replacement of existing concrete walks*, drives and pavement, *LED pedestrian countdown signal heads at signalized intersections (w/ APS)*, and the installation of *two High-Intensity Activated crosswalk (HAWK) signals* at the intersection of Broad and the Lafitte Greenway.

Figure: Map of designed pedestrian improvements on Broad Street including sidewalks, pedestrian signals, and HAWK signals.

Firm name	digital engineering	Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	**Stage 0 Feasibility Study and Design - West Judge Perez Drive**	Firm responsibility (prime or sub?)	Prime
Project number	NA	Owner's name	NORPC + St. Bernard Parish
Project location	CHalmette, LA	Owner's Project Manager	Donnie Bourgeois
Owner's address, phone, email	8201 W. Judge Perez Dr., Chalmette, LA 70043; 504 271 7966, dbourgeois@sbpg.net		
Services commenced by this firm (mm/yy)	11/17	Total consultant contract cost ($1,000's)	$248
Services completed by this firm (mm/yy)	11/24	Cost of consultant services provided by this firm ($1,000's)	$248

Firms Role: The project was completed in multiple phases. The inital phase of the project included conducting a *Stage 0 Feasibility Study* for *improved walking, bicycling*, and potential *transit stop improvements*, as well as potential *motor vehicle safety related improvements* in the vicinity of Rowley Boulevard to Pakenham Drive on the north and south sides of W. Judge Perez drive (LA 39) (approx. 1.65 miles). The final phase of the project included devloping *preliminary and final design plans* for the recommended improvements.

Relevant Services

- Stage 0 Feasibility Study
- Low-Cost Safety Design
- Pedestrian and Bicycle Safety Improvements
- Traffic Data Collection
- Stakeholder/Agency Coord.
- Construction Cost Estimates
- Stage 0 Documentation
- Preliminary and Final Design Plans

Firm Members Involved: Frank Liang, David LeBreton, Taylor Marino, Michael Flynn, Stephanie Turner

Stage 0 Feasibility Study: Included a *comprehensive site investigation and data collection effort* at study area intersections and potential conflict points along the corridor. *Pedestrian and bicycle screenline counts* were taken at Rowley Boulevard, Dr. Meraux Boulevard, and Pakenham Drive along the corridor for three days during the a.m. and p.m. peak hours. Information such as Right-of-Way (ROW) maps, Average Daily Traffic (ADT) counts, land uses, and existing network conditions were also collected. *Navigating through the tight ROW's along the corridor was a challenge for this project as it has limited concrete walk locations.* At the conclusion of this site investigation/data collection effort, DE provided recommendations (alternatives) for review and consideration which include a *multi-use path* on the north side of the corridor or *sidewalks on both sides of the corridor*. These alternatives were placed on plan sheets with stationing and a legend for review. DE compiled all this information along with *cost estimates* and the *LADOTD Preliminary Scope and Budget Checklist and LADOTD Stage 0 Environmental Checklist* into a "Draft Report" and ultimately a Final Stage 0 Feasibility Study for review and approval by the NORPC.

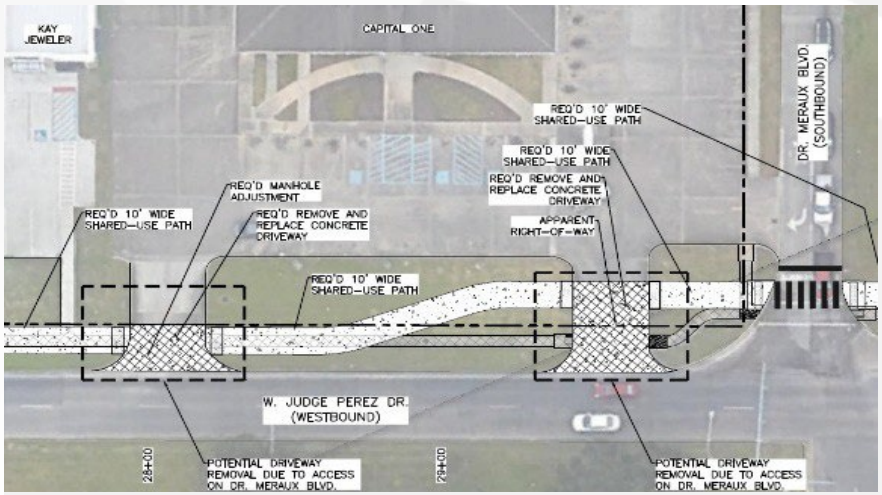


Figure: Proposed multi-modal safety improvements on W. Judge Perez Dr. in St. Bernard Parish

Design Plans - Ultimately, this project was awarded funding as a federal aid urban systems project named H.014643 LA 39: W. Judge Perez Dr. Enhancements. This phase involved *designing a 10-foot shared-use path* starting from the Guerengeh Canal and connecting to the existing sidewalk at the Pelican Point Car Wash near Dr. Meraux Blvd. On the north side, the path extended approximately 5,560 feet from the Guerengeh Canal, crossing the intersection at De La Ronde Drive and integrating with the Phase I portion. The design included *ADA-compliant curb ramps, crosswalk striping, and the installation of seven bus shelter pads*. Several design exceptions were prepared, including provisions for a two-way bike facility and adjustments due to the path's proximity to vehicular travel lanes.

People

20 Staff committed to this contract with safety study and design experience.

5 Road Safety Professionals (RSP)

10 Professional Traffic Operations Engineers (PTOE)

4 Professional Transportation Planners (PTP)

Performance

Top Performance ratings:

Stage 0/Feasibility: **4.5/5**

Traffic (Safety & Traffic): **4.6/5**

Roadway: **3.9/5**

Received positive performance reviews on past and current safety studies IDIQs

Projects

More than **50** Stage 0 Feasibility and Safety Studies

Over **30** low-cost safety design projects

Our approach is based on comprehensive experience of our local and highly-qualified, multi-disciplinary people performing to highest quality standards on DOTD Safety Studies and Design projects for more than 10 years.

Arcadis Past Performance Review:
Safety Studies IDIQ - District 04 Pedestrian Safety Improvements

"One highlight of the project was the consultant's coordination and communication with various project stakeholders such as local agencies and officials. They consistently followed up and used stakeholders time appropriately to solicit feedback and address concerns. Arcadis accommodated stakeholder feedback past the comment period and worked to deliver the project in a timely manner despite some delays."

- Jessica DeVille, LADOTD Highway Safety Section

18 APPROACH AND METHODOLOGY:

The Arcadis Team

The successful completion of task orders under this IDIQ contract will require an experienced multidisciplinary team that is familiar with all elements of the contract scope and is experienced in designing a range of low-cost safety improvements. ***The Arcadis Team has completed over 50 safety and feasibility studies for a wide range of projects across the state*** including pedestrian and bicycle improvements, safety and mobility improvements for roads and intersections, Road Safety Assessments, and safety effectiveness evaluations. ***The Arcadis Team has completed designs for over 30 low-cost safety improvement projects across the state.***

Our past experience has allowed our team to develop working relationships with LADOTD, stakeholders, and Local Public Agencies (LPAs) in all 9 Districts (02, 03, 04, 05, 07, 08, 58, 61, and 62), enabling our team to apply our understanding of local needs to develop feasible, context sensitive solutions.

Ari Deitch, PE, PTOE, PTP, RSP will be the Project Manager for the Arcadis Team and will be supported by our multidisciplinary consultant team, including expert subconsultants: ***Digital Engineering*** will leverage their project experience to assist with task orders for low-cost safety design and ped/bike/complete streets, and provide support for various tasks required for safety studies. ***Buchart Horn*** will also provide support for design and study components of the scope, and bring over 30 years of experience with the LADOTD Highway Safety Section.

In addition to the team members presented in this proposal, The Arcadis Team includes redundancies in local and regional resources that can be utilized to ***deliver multiple task orders simultaneously under this IDIQ*** while meeting project schedules and managing team workload.

Our team holds the current Safety Studies IDIQ and has completed 7 feasibility studies, which are being programmed in preparation for envrionmental and design stages. We stand prepared to continue efforts on these projects and others to support LADOTD in its goal to implement safety improvements.

Task Order Selection and Scoping

Throughout the IDIQ contract period, Arcadis will hold recurring meetings with the LADOTD PM to discuss potential task orders and advise LADOTD in the selection of projects that support LADOTD's goals. Arcadis takes a proactive role in identifying key stakeholders and organizing meetings as necessary to develop the scope of work for task orders. Understanding the project background and goals are a key focus of these scoping discussions as well as determining the proper approach to ensure that the required tasks can be completed without supplemental agreements. ***A comprehensive, clearly defined scope of work is imperative to the successful and timely completion of task orders.***

Kick-Off, Progress, and Milestone Meetings

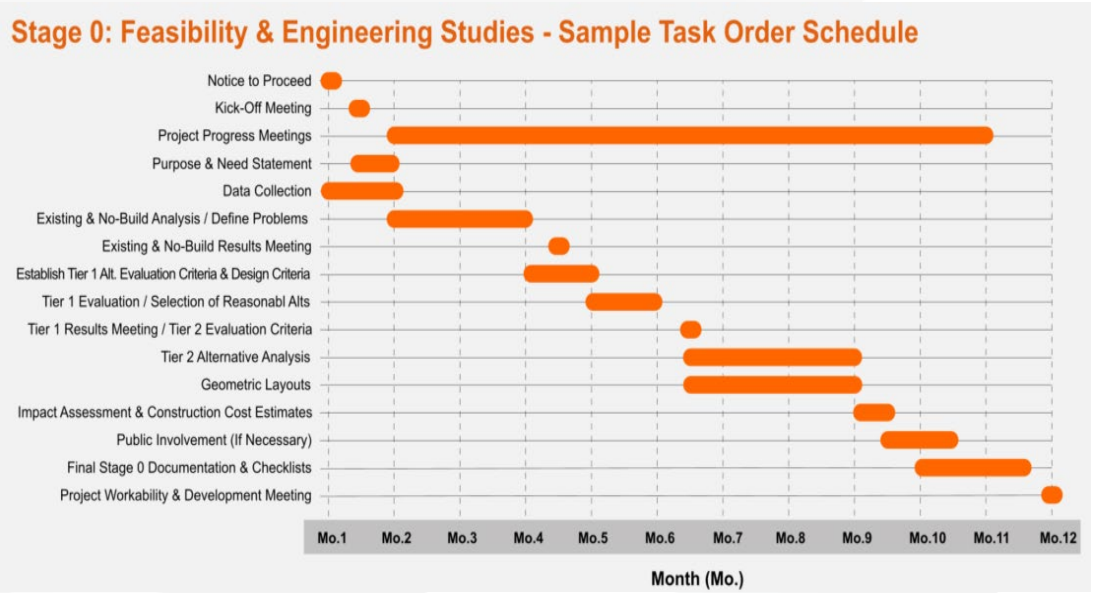
Upon receipt of Notice to Proceed, Arcadis will request a kick-off meeting with the LADOTD PM, District, LPA, and stakeholders to review project purpose and need, scope, methodologies, communication protocols, schedule, and immediate data needs. Arcadis will schedule monthly or bi-weekly meetings with the LADOTD PM to provide updates on the progress of task orders. Milestone meetings will be held following the submittal of key deliverables to discuss LADOTD comments and at critical decision points of the study. Our philosophy is that ***frequent communication is essential to meeting and exceeding our clients expectations and delivering projects on schedule.***

Stakeholder Engagement

For task orders delivered under this IDIQ, emphasis will be given to encourage and facilitate stakeholder engagement. Stakeholders provide meaningful insights into project purpose and need, identifying historical safety issues, and contextualizing the alterntative development process.

Task 1 - Stage 0 Feasibility Studies

Stage 0 studies will be conducted in accordance with the ***LADOTD Stage 0: Manual of Standard Practice*** and will typically involve elements of engineering studies described in Task 2 and/or 3 to complete Stage 0 Documentation and Checklists. Engineering studies should provide sufficient information to define the purpose and need, establish existing and future conditions, develop reasonable and practical alternatives for consideration, and assess the performance and impact of alternatives. Geometric layouts will be developed to a sufficient level of detail to determine ROW and utility impacts, construction costs, environmental impacts, and constructability. ***Alternatives will be evaluated using criteria that is relevant to the purpose and need*** such as safety performance, traffic operations, accessibility and safety for Vulnerable Road Users (VRUs), etc. Benefit-cost analysis will be performed to ensure that project benefits outweight the construction and maintenance costs over the design life of the project. The B-C analysis also aids in alternative selection and prioritization of proposed safety countermeasures. All study results and recommendations will be included in a Stage 0 Report, which will provide the basis and background for the responses recorded on the ***Preliminary Scope and Budget Checklist and Environmental Checklist***.



Task 2 - Traffic Engineering Studies

Traffic Engineering studies will follow the LADOTD Traffic Engineering Process and Report (TEPR) format, with tasks being scaled appropriately based on the specific goals of the project.

Data Collection - Arcadis will gather engineering data necessary to conduct traffic engineering and safety studies including crash and volume data, pedestrian travel patterns, as-builts, utility and ROW information, land-use, previous studies, transit routes, design criteria, etc. Site visits will be conducted to validate engineering data and observe safety and operational conditions. A general understand of potential alternatives and safety countermeasures should be established to inform the scope of data collection and ***ensure that sufficient data is available to develop and evaluate alternatives.*** This is particularly critical when considering safety countermeasures for non-motorized modes such as marked crosswalks and mid-block crossings.

Existing and No-Build Analysis - Existing and no-build conditions will be evaluated to further define project needs and establish baseline measures of effectiveness (MOEs) for potential alternatives. Historical crash analysis will be a primary component in identifying safety needs for specific locations. The project team will compile and analyze crash data from the latest three-to-five LADOTD-approved years using the CARTS Crash Tool. ***The Arcadis Team is highly experienced with Highway Safety Manual (HSM) Methodologies and network screening tools*** such as CAT Scan (now available within the CARTS crash tool) to identify historical crash patterns and Level of Safety Service (LOSS). Arcadis develops ***custom, interactive safety dashboards to quickly process safety data and provide meaningful statistics in a graphical format,*** which can be used to highlight conditions that need to be improved for a given location.

Depending on the needs of the project, traffic analysis may be necessary to assess existing and future operational conditions. Arcadis' approach to traffic engineering embraces the ideas and philosophies enumerated in the Traffic Engineering Process and Report (TEPR). Our team is experienced with ***Highway Capacity Manual methodologies and analysis tools*** (Synchro, HCS, SIDRA) as well as advanced micro simulation (VISSIM) to model complex operational conditions if required.

Alternative Analysis - ***The development and analysis of alternatives will be conducted using a tiered, data-driven approach***. Tier 1 will involve a high-level evaluation of a wide range of alternatives that aim to address identified safety needs. Screening criteria for Tier 1 analysis will be developed in coordination with LADOTD based on the specific considerations of the project, with input from traffic, safety, design, environmental, and planning disciplines. 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. In many cases, a Tier 2 analysis is required and involves a more in-depth evaluation and comparison of selected alternatives through:

- quantification of safety and operational benefits;
- geometric layouts of alternatives;
- identification of environmental, ROW and utility impacts; and
- construction cost estimates and benefit-cost analysis.

The safety performance of proposed alternatives will be quantified using applicable ***HSM Predictive Methods*** or ***Crash Modification Factors (CMFs).***

Geometric layouts will be developed based on approved design criteria and will contain enough detail to provide a rational method for evaluating and comparing the technical design characteristics, environmental, and monetary aspects of each alternative. Complete streets, multi-modal, and context sensitive solutions will also be considered in alternative development as determined necessary through the feasibility study and stakeholder coordination.

Study Documentation – Will be provided in accordance with TEPR format and LADOTD Stage 0: Manual of Standard Practice.

Task 3 - Road Safety Assessments

Road Safety Assessments (RSAs) will be conducted by ***a multi-disciplinary / multi-agency team*** to document potential road safety issues and identify opportunities for safety improvements. Prior to scoping, Arcadis will review potential sites with the LADOTD PM, DTOE, and System Pavement Management Section and provide recommendations on locations that are most suitable for an RSA.

Initial Data Gathering and Analysis - An initial desktop review of the RSA location(s) and available data will be conducted to identify potential issues that should be investigated in the field. This should also include an analysis of historical crash data if one has not been completed previously.

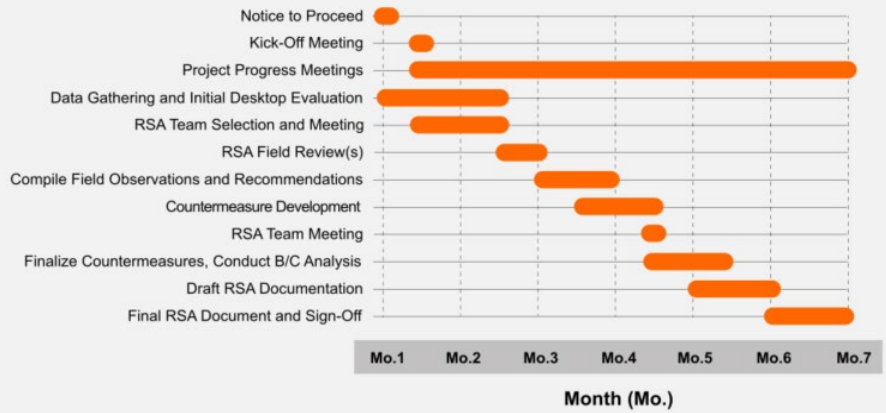
Identify RSA Team - Arcadis will work with LADOTD to select a multi-disciplinary RSA team, including stakeholders identified in the IDIQ contract scope. Meetings will be conducted with the RSA team to review the project site, background information, and guidance material, and to coordinate the RSA field review.

Field Reviews - RSA field reviews will be conducted in a manner that ensures all potential safety issues can be observed and documented. For example, if crash data shows a high occurrence of crashes during night-time hours, part of the field review should be performed at night when similar conditions can be observed. It may be appropriate to document the experience of multiple transportation modes. Walking or biking though the site may provide insights into potential safety issues that are not otherwise apparent.

Identified Needs and Potential Countermeasures - Following completion of the RSA field review(s), Arcadis will compile all observations and recommendations made by the RSA team. The Arcadis Team will develop a preliminary list of alternative countermeasures that aim to address identified safety issues, including previously planned improvements. The summary of observations and preliminary list of alternatives will be presented to the RSA team to obtain feedback and ensure a mutual understanding of issues and potential strategies. ***Arcadis will work closely with the RSA team to develop implementable context sensitive solutions that are consistent with state and local standards and policies.*** Countermeasures may be segmented into short-term and long-term plans to fast-track implementation of low-cost improvements that provide significant benefits.

RSA Documentation - RSA findings and recommendations will be documented in a comprehensive report with written acknowledgement from key project stakeholders and roadway owners. Arcadis will quantify project benefits and costs associated with proposed countermeasures and any additional study that may be necessary before initiating detailed design.

Road Safety Assessment - Sample Task Order Schedule



Task 4 - Design of Low-Cost Safety Improvements

We envision that low-cost safety projects will typically include improvements that require little to no right-of-way such as sidewalks, ADA curb treatments, signing and striping, pedestrian and bicycle improvements / enhancements, traffic signal upgrades, guard rail, road diets, restrictive intersections, access management, surface treatments, horizontal and vertical curvature improvements, etc. Based on the nature of the project, varying degrees of survey may be needed, with some projects requiring partial or no survey. During project scoping, the Arcadis Team will coordinate with LADOTD to identify the level of survey that is needed based on the unique needs of each project.

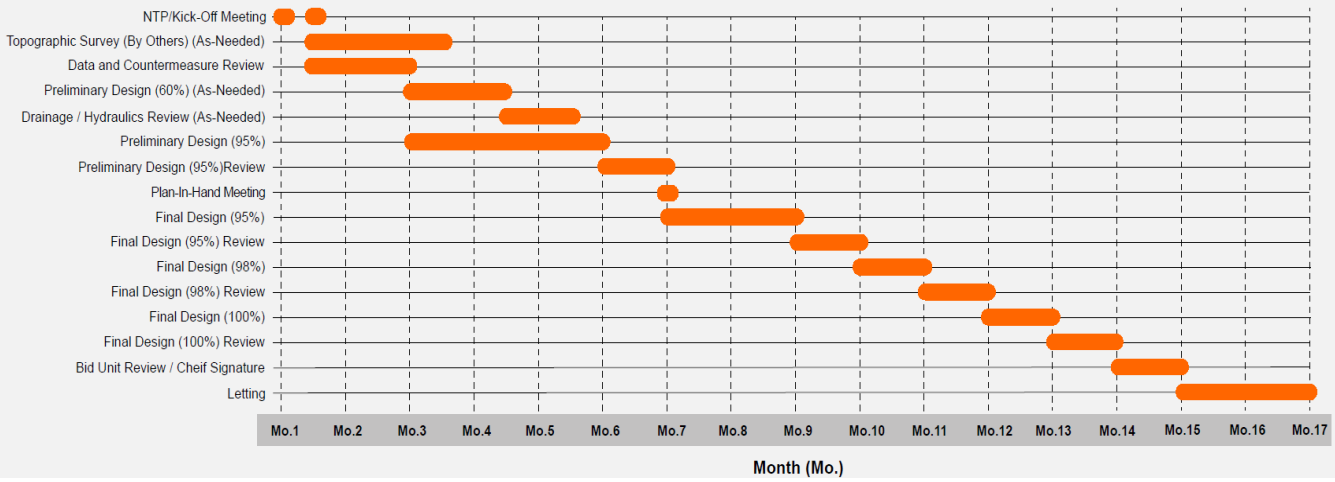
Design Guidelines - Design plans will be developed in accordance with the latest design guidelines and policies applicable to this IDIQ as referenced in the RFP. Additionally, the following design guidelines may be utilized:

- AASHTO Greenbook;
- LADOTD Minimum Design Guidelines;
- ADA Standards for Accessible Design;
- AASHTO Guide for the Development of Bicycle Facilities;
- National Association of City Transportation Officials Design Guide; and
- Guide for Planning, Design, and Operation of Pedestrian Facilities

Design Schedule - Low-cost design projects will typically follow a condensed number of milestone submittals: 95% Preliminary Plans, 95% Final Plans, 98% Final Plans, and 100% Final Plans. For projects that require the implementation of subsurface drainage to accommodate roadside improvements such as sidewalks or multi-use paths, a 60% Preliminary Plan submittal will be provided

with hydraulics calculations for review. ***The condensed number of milestone submittals will require that initial submittals are more detailed to ensure an efficient and timely completion of project design.*** Depending on the avaialbility/need for survey data and extent of improvements, the duration for low-cost design projects can range from 12 to 17 months.

Low-Cost Safety Design - Sample Task Order Schedule



Task 5 - Safety Effectiveness Evaluation

Safety effectiveness evaluations seek to determine how a countermeasure or set of countermeasures impacts the safety performance of a roadway. The Arcadis Team's approach to conducting safety effectiveness evaluations and "before and after" studies utilizes analysis methods defined in the Highway Safety Manual, best practices around the country, and our experienced team to provide valid and meaningful results.

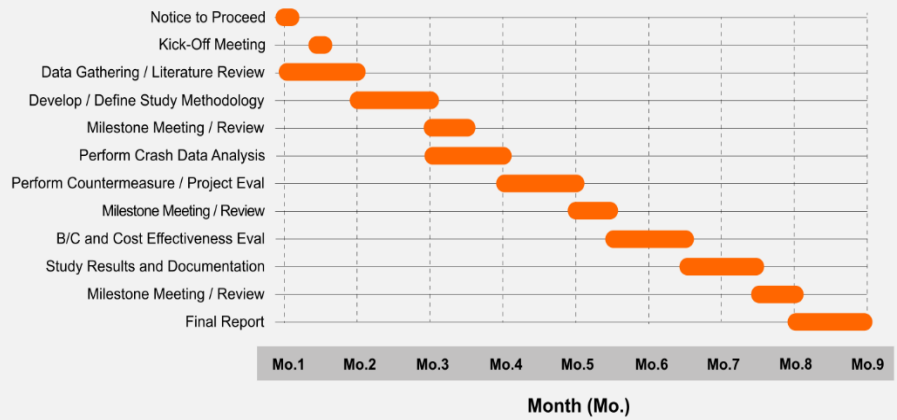
Crash Data Gathering and Preparation - Our team is intimately familiar with LADOTD crash data and definitions through our long history of delivering safety projects for LADOTD, including our prior involvement in the 2022 Strategic Highway Safety Plan Update. Arcadis will coordinate with LADOTD and the Center for Analytics and Research in Transportation (CARTS) to obtain all crash data that is needed and ensure that appropriate data format and attributes are in place to support the analysis methodology. Ideally, at least 6 years of crash data (3 years before project implementation and 3 years after) will be obtained to conduct the "before and after" studies. Additional data requirements will include traffic volume data, project duration and cost, monetized state specific values of crash severities, and literature review of best practices.

Establish Study Methodology - Prior to initiating detailed analysis tasks, Arcadis will work closely with LADOTD and stakeholders to define the methodology that will be used in the analysis, which will be documented in a technical memorandum that will be approved by LADOTD and stakeholders.

Effectiveness Evaluation - Initially, a crash data analysis will be performed for all locations for all crashes and/or specific crash types and then summarized in *interactive data dashboards.* Subsequently, to evaluate the effectiveness of the countermeasures (or set of countermeasures), an *"Empirical Bayes Before and After"* analysis will be performed to estimate the change in crashes (before vs. after) by severity using the previously gathered data.

Lastly, a benefit cost and cost effectiveness analysis will be performed using the results of the before and after analysis, monetized value of crashes by severity, and project implementation cost. The benefit cost analysis will show if the monetized safety benefits outweigh the cost of project implementation. The cost effectiveness analysis will estimate the expected reduction in crashes for every dollar spent on implementing specific project(s) and/or countermeasure(s). All results will be documented in a final technical report.

Safety Effectiveness Evaluation - Sample Task Order Schedule



RSA 1: Highland Road at S. Stadium Drive

Site Visit Date/Time
October 21, 2020/AM

Benefit Cost Analysis of Proposed Recommendations and Countermeasures

Louisiana State Unit Cost per Crash

Severity	Cost
Fatal	$1,710,561
Severe Injury	$489,446
Moderate Injury	$173,578
Complaint Injury	$58,636
PDO	$24,982

Inflation	Years of Service
4%	10 years

Notes:

1. Calculations were based on the estimated crash reduction and the Louisiana Department of Transportation and Development (LADOTD) cost of crashes by severity provided on the LADOTD Highway Safety Section's website: http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Multimodal/Highway_Safety/Pages/Highway_Safety_Analysis Toolbox.aspx

2. Calculations were based on a 10-year life of service and 4% inflation.

3. Construction cost estimates should be considered "planning-level" and do not include the cost of maintenance, engineering studies, or enforcement activities.

4. Crash reductions and safety benefits for this RSA were calculated at the intersection level only.

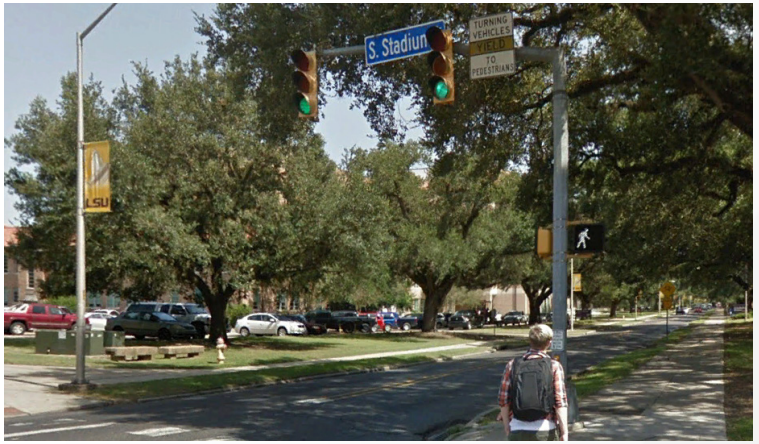
Short-Term Recommendations and Countermeasures

Recommendations and Countermeasures	Safety Benefits per Year	Safety Benefits (10 Years)	Cost
•Remove obstructions from pedestrian landing areas (e.g., trash cans, newspaper stands).	-	-	-
•Restore striping and implement striping enhancements such as sharrow symbol on mainline and side-street approaches.	-	-	$28,000
•Prohibit ROR movements to address conflicts with bicyclists, pedestrians, and cars.	$12,250	$99,361	$2,000
•Implement actuated pedestrian phases for mainline approaches.	-	-	$28,000
•Add an ADA-compliant bus stop south of intersection for wheelchair access with ramps.	-	-	$9,000
•Recommend that CATS provide dedicated supports for bus stop signage.	-	-	-

Mid-Term Recommendations and Countermeasures

Recommendations and Countermeasures	Safety Benefits per Year	Safety Benefits (10 Years)	Cost
•Install/improve lighting for crosswalks on all approaches.	$12,250	$99,361	$49,000
•Expand and restore landing areas and provide directional ADA-compliant curb ramps, provide directional ADA-compliant curb ramps and detectable warnings.	-	-	$69,000
•Relocate signal pole.	-	-	$27,000
•Adjust storm drain covers to match grade of roadway in vicinity of intersection.	-	-	$27,000

This report is prepared solely for the purpose of identifying, evaluating, and planning safety improvements on public roads and is therefore exempt from discovery or admission under 23 U.S.C. 409.



Benefit cost analysis results for Baton Rouge Pedestrian and Bicycle Road Safety Assessments.

Sections 19-23

19 WORKLOAD:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
ARCADIS	Traffic	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	$1,585,804 *(50% of work is complete and invoiced but awaitng payment)*
		4400019379 / H.013797	LA 30: EBR PL – I-10	$232,048
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$43,467
		4400021325 / H.012837.5	I-10 New Orleans Master Plan	$116,283
		4400023690 / H.015590.5	LA 494: LA 6 To Blanchard Rd	$213,696
		4400025921 / H.015938.1	Transportation Systems Management and Operations (TSMO) Program	$216,878
		4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	$190,399
		4400024084 / H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	$12,348
		H.003931	I-10 Calcasieu River Bridge P3 Project	$1,800,000 *(Majority of remaining work to be completed within 1 year)*
	Road	4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$269,615
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	$27,459
		4400019010 / H.010116.5	LA 1088: Soult and Trinity Roundabouts	$33,307
		4400025022 / Multiple State	IJJA Off System Bridge Program – Road Task Orders	$26,082
		H.003931	I-10 Calcasieu River Bridge P3 Project	$2,400,000 *(Majority of remaining work to be completed within 1 year)*
	ITS	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	$357,583 *(50% of work is complete and invoiced but awaitng payment)*
		4400026457 / H.013868.5	ITS MGMT, OPERATIONS, & MAINT	$604,999
		4400026457 / H.013868.6 (A)	ITS MGMT, OPERATIONS, & MAINT	$227,748
		4400026457 / H.013868.6 (B)	ITS MGMT, OPERATIONS, & MAINT	$165,079

		H.003931	I-10 Calcasieu River Bridge P3 Project	$420,000 *(Majority of remaining work to be completed within 1 year)*
	Environmental	4400009703 / H.000688.2	US 11 Norfolk Southern Railroad	$3,008
		4400007175 / H.011328.2	I-49 South (Ricohoc to Berwick)	$926,274
		4400019338 / Multiple State Project Nos	Rural Bridge Replacement Initiative Phase II	$52,764
		4400009281 / H.009932	US 80 Widening: Vancil Road to Well Road EA	$5,343
		4400025022 / H.015498.5 Recall 102225	Park Road Over Lagoon	$35,000
		4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Env. Task Orders	$183,549
		4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	$65,529
		H.003931	I-10 Calcasieu River Bridge P3 Project	$480,000 *(Majority of remaining work to be completed within 1 year)*
	Bridge	4400029193 /H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	$777,355 *(50% of work is complete and invoiced but awaitng payment)*
		4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Bridge Task Orders	$20,498
		4400021325 / H.015193.1	LA 22: Tchefuncte Bridge Feasibility	$4,889
		H.003931	I-10 Calcasieu River Bridge P3 Project	$900,000 *(Majority of remaining work to be completed within 1 year)*
	CE&I/OV	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12	$388,678
		4400027361 / H.011220.6, H.012901.6, H.010634.6	US 90 Engineering Support	$261,305
		4400016923 / H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	$193,131
		4400025046 / H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	$35,297
		4400025665 / H.013482.6	I-10 WBR Queue Warning System	$221,534

	Data Collection	4400021325 / H.012837.5	I-10 New Orleans Master Plan	$7,655
		4400023812 / H.015377.5	Weigh Station Assessment	$454,079

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Other (Safety Program-SRTPP)	Contract No. 4400019870	IDIQ for Design of Safety Projects (Districts 03, 07, 08)	
		H.013722	Morgan City Sidewalks and Shared Use Path	$33,690
		H.015487	NOLA Pedestrian Safety Improvements	$295,029
		H.013716	US 167: Mt. Vernon St.-Churchill Dr (LAF)	$190,973
		H.013753	LA 428 General DeGaulle – Old Behrman	$34,165
		H.013719	US61 @ I-10 EB Off Ramp Ped Impr (NO)	$7,771
		Contract No. 4400015487	IDIQ for Design of Safety Projects (Districts 02, 61, 62)	
		H.015011	Local Road Signing & Striping (Ascension)	$23,596
		H.015210	Judge Tanner Blvd Sidewalk (St. Tammany)	$54,509
		H.012504	Town Center Pkwy Sidepath (Slidell)	$132,701
		H.013094	Broad St. - Read Blvd. Ped Improvements	$14,331
		H.016088	US 90b (Tulane Av) & Galvez St Ped Imp (No)	$6,500
		H.016076	Signal Improvements (Hammond)	$14,000
		H.016096	Acadia Rd Sidewalk Impr. (Thibodaux)	$6,500
		H.016098	LA 1, 308 & 70 Ped Cross Imp (Assumption)	$6,500
		H.016097	Bunche Elem & John Ehret HS Ped Imp. (Jeff)	$14,000
	CE&I/OV	Contract No. 4400027922 H.014736.6	St. John W. Bank Miss. R. Trail, Phase 2	$73,749
		Contract No. 4400028509 H.012012.6	Ridgewood/Stroelitz (Airline to Loumor)	$443,789

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
BUCHART HORN ENGINEERS • ARCHITECTS • PLANNERS	Environmental	H.005257, FAP 9902(518), 700-99-0302	Houma-Thibodaux to I-10 Corridor Environmental Impact Statement	$3,284
		H.009153.2, FAP H009153	US 84 Improvements	$31,141
	Bridge	4400026073, H.010616.5	New I-20 Overpass over LA 544 Lighting	$70,707
		4400026073, H.010319.5	I-110 Lighting from North Street to Plank	$148,314

20 CERTIFICATIONS/LICENCES

STAFF CERTIFICATION CHART SUMMARY

Names	Firm	Relevant Certification
Akhil Chauhan, PE, PTOE, PTP, PMP *Meets MPR No. 1 & 2*	ARCADIS	Traffic Engineering Analysis Process & Report Module 1, 2, & 3 Professional Traffic Operations Engineer – #2544 / Exp. 11/2026 Professional Transportation Planner – #246 / Exp. 12/2027 Project Management Professional - #1444676 / Exp. 12/2025 LADOTD – Using Statistics in Highway Safety FHWA-NHI-380071 – Interactive Highway Safety Design Model FHWA-NHI-380075 – New Approaches to Highway Safety Analysis FHWA-NHI-380106 – Highway Safety Manual Online Overview FHWA-NHI-133078 – Access Management Location and Design Louisiana's Complete Steets Peer Exchange Louisiana's Local Road Safety Peer Exchange
Jose L. Rodriguez, PE *Meet MPR No. 3*	ARCADIS	ATSSA Traffic Control Supervisor
Ari Deitch, PE, PTOE, PTP, RSP1 *Meets MPR No. 5*	ARCADIS	Professional Traffic Operations Engineer – # 4346 / Exp. 11/2026 Professional Transportation Planner – #690 / Exp. 07/2025 Road Safety Professional - #37 / Exp: 12/2027 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor Highway Safety Manual Workshop FHWA – NHI – 133121 Traffic Signal Design and Operation
Kester Hollier, PE, PTOE *Meets MPR No. 4 & 5*	ARCADIS	Professional Traffic Operations Engineer – #3928 / Exp. 11/2027 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Max Aguirre, PhD, PE, PTOE, RSP2I *Meet MPR No. 5*	ARCADIS	Professional Traffic Operations Engineer – #5291 / Exp. 7/2025 Road Safety Professional 2I - #182/ Exp: 7/2027 ATSSA Traffic Control Supervisor Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Justin Maderia, PE, PTOE, PTP *Meet MPR No. 5*	ARCADIS	Professional Traffic Operations Engineer – # 3455 / Exp. 7/2027 Professional Transportation Planner – #604 / Exp. 07/2026 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3

20 CERTIFICATIONS/LICENCES

Names	Firm	Relevant Certification
Jonathan Reid, PE, PTOE, RSP1	ARCADIS	Professional Traffic Operations Engineer – # 1588 / Exp. 3/2026 Road Safety Professional - #104 / Exp: 12/2027 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Jason Morrell, PWS	ARCADIS	Professional Wetland Scientist - #2319 / Exp. 04/2028 FHWA-NHI-142005 NEPA and the Transportation Decision Making Process FHWA-NHI-142047 Water Quality Management of Highway Runoff
Jan Hughes	ARCADIS	FHWA-NHI-142005 NEPA and the Transportation Decision Making Process
Kimberly Arcement	ARCADIS	FHWA-NHI-142005 NEPA and the Transportation Decision Making Process
Dan Magri, PE	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	FHWA-NHI – AASHTO Roadside Design Guide FHWA-NHI – Traffic Conflict Techniques for Safety Operations FHWA-NHI – Safety Management System FHWA-NHI – Improving Safety and Horizontal Curves FHWA-NHI-151042 – Transportation Safety Planning FHWA-NHI-310110 – Federal-Aid Highways 101 FHWA-NHI-133078 – Access Management Location and Design FHWA-NHI-380071 – Interactive Highway Safety Design Model LTRC – Designing Pedestrian Facilities for Accessibility NU-CPS – Accident Reconstruction for Traffic Engineers NUTI – Traffic Control Devices Workshop NCRPH – Highway Safety Manual Workshop
Joseph Mingo, PE	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor LTAP – RS#9 Road to Better Signing LTAP – LPA Qualification Core Training ATSSA Flagger
Cal Joy, PE	BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	ATSSA Traffic Control Supervisor Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 LADOTD – Flagger Certificate – Exp. 4/1/2025 LTAP – RS#9 Road to Better Signing

20 CERTIFICATIONS/LICENCES

Names	Firm	Relevant Certification
Frank Liang, PE, PTOE	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Professional Traffic Operations Engineer – #3362 / Exp. 11/2027 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor Refresher
David LeBreton, PE, PTOE, PTP, RSP1 *Meet MPR No. 4*	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Professional Traffic Operations Engineer – # 3333 / Exp. 11/2027 Professional Transportation Planner – #661 / Exp. 03/2028 Road Safety Professional - #314 / Exp: 7/2025
Taylor Marino, PE, PTOE, RSP1 *Meet MPR No. 4*	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor Refresher
Stephanie Turner, PE	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor
Michael Flynn, PE	digital engineering DIGITAL ENGINEERING & IMAGING, INC.	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor

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 Pariteton · 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

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

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

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

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

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

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

Local Coordinator

Valerie Briggs, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Akhil Chauhan

has participated in

NHI Course No. FHWA-NHI-380106

Highway Safety Manual Online Overview

hosted by

National Highway Institute

Location: *Web-Based Course* ***Hours of Instruction:*** *12 hours*

Date: *7/18/2012*

Richard J. Barnaby, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

PRESENTED BY

Louisiana Local Technical
Assistance Program

TO CERTIFY THAT

Akhil Chauhan

HAS SATISFACTORILY COMPLETED 7 PROFESSIONAL DEVELOPMENT HOURS IN:

Louisiana's Complete Streets Peer Exchange

Director of Louisiana LTAP Center

January 19-20, 2016
Date

Baton Rouge, Louisiana
Location

Certificate of Attendance

USING STATISTICS IN HIGHWAY SAFETY

PRESENTED BY

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

TO CERTIFY THAT

Akhil Chauhan

HAS SATISFACTORILY COMPLETED 6 HOURS OF TRAINING

Dr. Helmut Schneider
Director
Highway Safety Research Group

CERTIFICATE OF PARTICIPATION

IS GIVEN TO

Akhil Chauhan

for having participated in Louisiana's Local Road Safety Peer Exchange

on September 10-11, 2015 in Baton Rouge, Louisiana

DORTHA F. CUMMINS
Director, Louisiana Center for Transportation Safety

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

ATSSA
Safer Roads Save Lives

Jose Rodriguez

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 29-MAR-2024

CEU (If Applicable): 0.75

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

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 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 87 issued in Washington, DC, USA

12/21/2018

Diane W. Morabito
Chair

RSP ROAD SAFETY PROFESSIONAL

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 Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4846 issued in Washington, DC, USA

11/20/17

Michael K. Park
Chair

PTOE PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director

ATSSA
Safer Roads Save Lives

Ari Deitch

has attended
Louisiana Traffic Control Supervisor

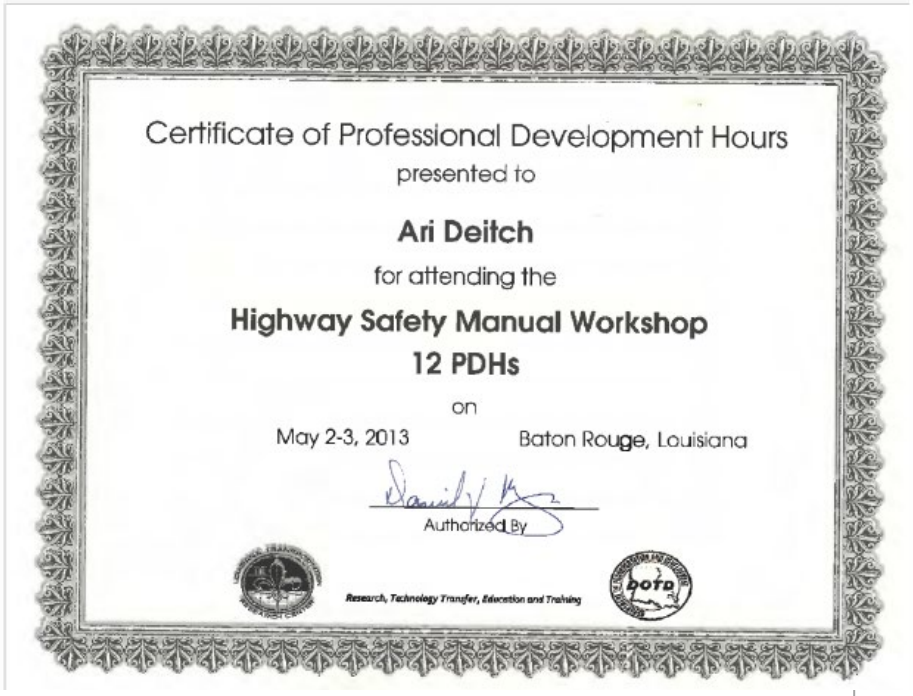
Completed: 22-FEB-2024

CEU (If Applicable): 1.5

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

ATSSA CERTIFIED

American Traffic Safety Services Association
ATSSA.com



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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

ARI DEITCH

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

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

Transportation Professional Certification Board Inc.

certifies that

Kester Berk Hollier

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

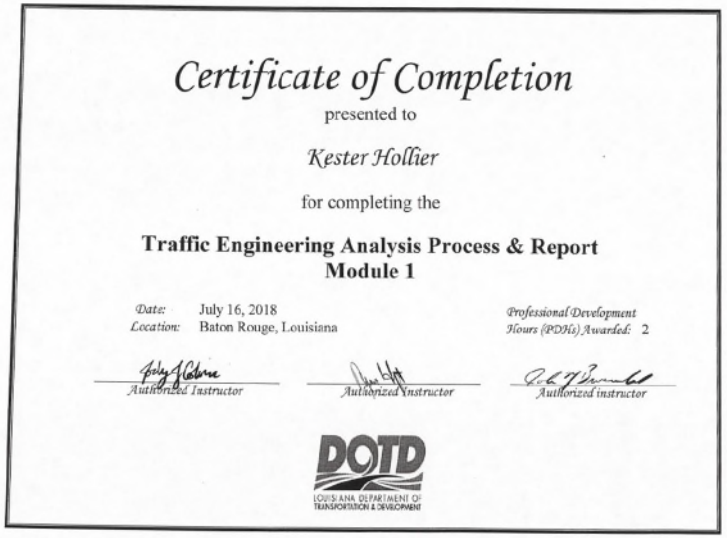
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

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 Askew
Chair

PTOE
PROFESSIONAL
TRAFFIC
OPERATIONS
ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director



Certificate of Completion

presented to

Kester Hollier

for completing the

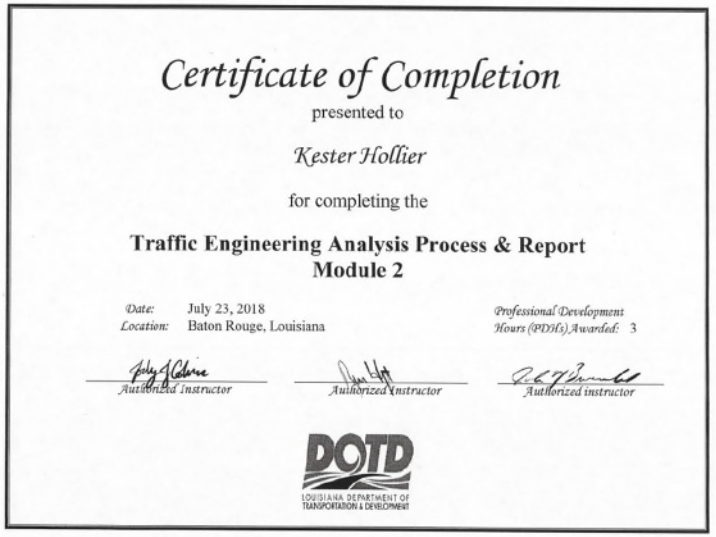
Traffic Engineering Analysis Process & Report
Module 1

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

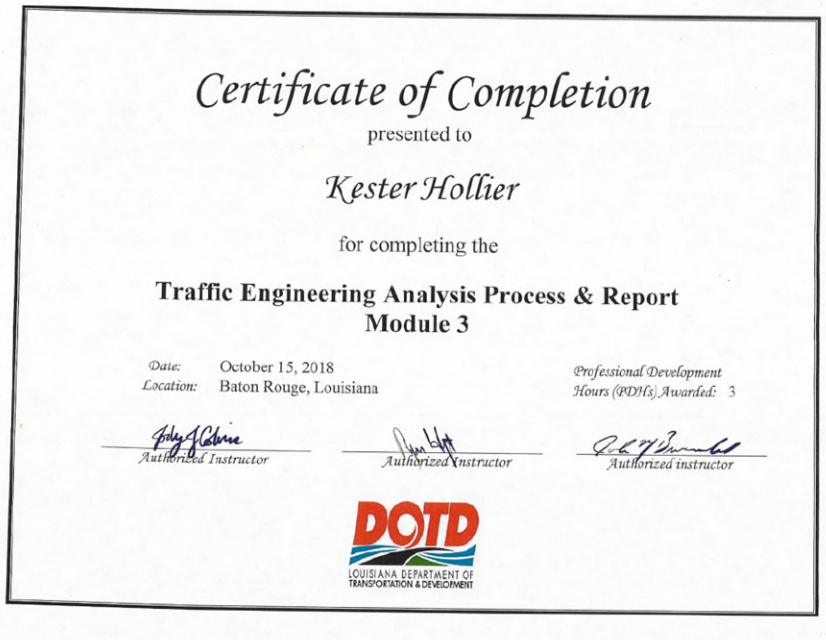
Traffic Engineering Analysis Process & Report
Module 2

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

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

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 5291 issued in Washington, DC, USA

7/13/2022

Deborah L Snyder

Deborah Snyder
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Jeffrey F. Paniati
Executive Director

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
Jeffrey F. Paniati
Executive Director

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.

ATSSA American Traffic Safety Services Association ATSSA.com

The Transportation Professional Certification Board

Certifies that

Max Aguirre, Ph.D.,PE,PTOE,RSP2I

successfully renewed the Road Safety Professional Infrastructure® (Level 2) certification

Original Certification Date: 7/9/2024

Certification Valid Through: 7/9/2027

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 182

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

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

Jeffrey F. Paniati
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 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

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

Congratulations!
Jonathan Reid

You have completed

Traffic Engineering Analysis Process & Report Class
Modules 1, 2 &3

Date: April 27-28, 2023
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

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

Jonathan D. Reid
Arcadis
801 Corporate Center Drive, Suite 300
Raleigh, NC USA 27609

It is my pleasure to transmit the enclosed notice that you have passed the examination to be certified as a *Road Safety Professional.* 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 Road Safety Professional and/or the initials RSP in the conduct of your professional practice. If payment is outstanding, you must pay the balance due and only then are you an RSP.

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.

Jonathan D. Reid

Your initial certification fee covers a three-year period and will expire December 21, 2021.

More information about professional development hours will be in a future mailer. In the meantime, begin earning and keeping track of your professional development units so when it is time to renew, the information will be easily accessible. ITE has developed a web-based Professional Competency Record Keeping System to assist you in keeping such a log along with attachments. www.ite.org/pdrks/default.asp

In the certification and licensure industry, it has become common for a certain percentage of recertification applicants' attestation materials to be audited and verified. TPCB has been working with its psychometrician at Castle (TPCB's certification and licensure testing company) to determine that percentage as well as the process that must be implemented to reapply for its accreditation. Please be advised that beginning January 1, 2018, TPCB has implemented a policy in which 20% of application materials are audited meaning the certificant will be required to provide documentation as backup to support the renewal . This sampling will be completely random. Using the record keeping system noted above will help you keep track of all the information.

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

Sincerely,

Michael K. Park, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Attachments

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 Scientist Number 2319 issued on 4/1/2013 and recertified on 5/2/2023.
Due to recertify again by 4/1/2028.

Rob McInnes, PWS
President

Pat Frost, PWS
Certification Renewal Chair

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

JASON MORRELL

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: *December 3-5, 2018* ***Hours of Instruction:*** 18
Location: *Baton Rouge, LA*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Jason Morrell

has participated in

FHWA-NHI-142047 Water Quality Management of Highway Runoff

hosted by

Georgia Department of Transportation

Date: *October 25-26, 2011* ***Hours of Instruction:*** *12 hours*
Location: *Atlanta, GA*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

U.S. Department of Transportation

Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

JAN HUGHES

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: *January 9-11, 2024*

Location: *Baton Rouge, LA*

Hours of Instruction: 18

Instructor

Kathy Baumgaertner

Instructor

Allison H. Landry

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director

National Highway Institute

U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Kimberly Arcement

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

has participated in

NHI Course No. 142005 -
NEPA and Transportation Decision Making

hosted by

LA DOTD/LTRC

Date: **April 10-12, 2012**

Location: **Baton Rouge, LA**

Hours of Instruction: **18**

Instructor

Instructor

Allison Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

National Highway Institute
Certificate of Training

Dan Magri

has satisfactorily completed training in

AASHTO Roadside Design Guide

conducted by

National Highway Institute

Location: Baton Rouge, LA

Date: April 29-30, 2003

Hours of instruction: 12

Continuing Education Units: 1.2

Frank Julian
Instructor

Moges Ayele
Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

NORTHWESTERN UNIVERSITY

CENTER FOR PUBLIC SAFETY

This is to certify that

Daniel J. Magri

has attended the

ACCIDENT RECONSTRUCTION FOR TRAFFIC ENGINEERS WORKSHOP

3.4 C.E.U.'s Awarded

New Orleans, Louisiana

January 22-26, 2001

COURSE SUPERVISOR

DIRECTOR CENTER FOR PUBLIC SAFETY

Certificate of Completion

Association of Pedestrian and Bicycle Professionals

Designing Pedestrian Facilities for Accessibility
October 8-9, 2008

An educational program developed by the Association of Pedestrian and Bicycle Professionals in conjunction with the Federal Highway Administration and the United States Access Board to provide an overview of the Americans with Disabilities Act guidelines and policies for the public rights-of-way.

Dan Magri

has completed the course
hosted by Louisiana Transportation Research Center

Michael Moule, PE, PTOE

Sandra Romero

Sandra Romero, LTRC
Hours of Instruction: 9

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Dan Magri

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 Dimaiuta
Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

Certificate of Training

PRESENTED BY

The National Cooperative Research Program

TO CERTIFY THAT

Dan Magri

HAS SATISFACTORILY COMPLETED 20 HOURS OF TRAINING IN:

Highway Safety Manual Workshop
NCHRP 17-38

December 1-3, 2010
Date

Baton Rouge, Louisiana
Location

Karen K. Dixon, PhD, P.E.
Ida van Schalkwyk, PhD
Larry F. Sutherland, P. E.
Instructors

LOUISIANA'S ON THE MOVE...
DOTD
BUILDS THE WAY

U.S. Department of Transportation
Federal Highway Administration

Federal Highway Administration
RESOURCE CENTER

This Certificate of Training is presented to

Daniel Magri

In recognition of successfully completing

Highway Safety Manual Workshop

Baton Rouge, Louisiana

16.0 PDH

Gene Amparano, PE

Fred Ranck, PE, PTOE
Instructor

October 19-21, 2010
Date

U.S. Department
Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Dan Magri

has participated in

Improving Safety of Horizontal Curves

hosted by

LA DOTD/LTRC

Hours of Instruction: **6**

Date: **April 20, 2010**

Location: **Baton Rouge, LA**

William J Fitzgerald
Instructor

Instructor

Allison Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department
of Transportation
Federal Highway Administration

Office of Professional and Corporate Development
Main Office: 4600 N. Fairfax Dr., Suite 800
Arlington, VA 22203

HQ Office: 400 Seventh St., S.W., Suite 4208
Washington, DC 20590

September 26, 2005

Mr. Dan Magri
5806 Getysburg Drive
Baton Rouge, LA 70817

Dear Mr. Magri,

We are pleased to inform you that you have successfully completed NHI Course No. 133078A: Access Management from March 29, 2005 – March 31, 2005 in Baton Rouge, LA. You have fulfilled the requirements necessary to obtain 1.8 Continuing Education Units for this course.

We thank you for selecting NHI for your training development and look forward to your participation in NHI courses in the future. Should you have any questions or concerns regarding this letter, or other NHI activities, please don't hesitate to call us at (703) 235.0500.

Sincerely,

Richard Barnaby
Chief, Training Programs Manager
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

National Highway Institute

Certificate of Training

Dan Magri

has participated in

NHI Course No. 310110 – Federal-Aid Highways 101 (State Version)

hosted by

LA DOTD/LTRC

Date: **November 1-2, 2011**

Hours of Instruction: **12**

Location: **Baton Rouge, LA**

Gerald L. Kennedy
Instructor

Allison Landry
Local Coordinator

Instructor

Richard Barnaby, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

National Highway Institute

Certificate of Training

Dan Magri

has participated in

NHI Course No. 151042 – Transportation Safety Planning

hosted by

LA DOTD/LTRC

Date: **August 30-31, 2011**

Hours of Instruction: **12**

Location: **Baton Rouge, LA**

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute
Certificate of Training

Daniel J. Magri

has satisfactorily completed training in

Safety Management System

conducted by

FEDERAL HIGHWAY ADMINISTRATION

Location: **Baton Rouge, Louisiana**

Date: **December 12 and 13, 1995**

Hours of instruction: **16**

Continuing Education Units: **1.2**

Instructor

Director, Special Strategic
National Highway Institute Initiatives

Coordinator

Federal Highway Administrator

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Certifies that **Dan Magri**

has satisfactorily completed 16 hours of training in

TRAFFIC CONFLICT TECHNIQUES FOR SAFETY OPERATIONS

conducted by **FEDERAL HIGHWAY ADMINISTRATION**

March 19-21, 1991
Date

Thomas D. Larson
Federal Highway Administrator

George M. Shrieves
Director
National Highway Institute

Baton Rouge, Louisiana
Location

Mark R. Bush
Instructor

John Shultz
Coordinator

NORTHWESTERN UNIVERSITY TRAFFIC INSTITUTE

This is to certify that

DAN MAGRI

has attended the

TRAFFIC CONTROL DEVICES WORKSHOP

1.5 C.E.U.'s Awarded

Baton Rouge, Louisiana

May 19 - 20, 1997

COURSE SUPERVISOR

DIRECTOR OF THE TRAFFIC INSTITUTE

Congratulations!

Joey Mingo

You have completed

Traffic Engineering Analysis Process & Report Class
Modules 1, 2 &3

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joseph Mingo

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/7/2021 to 4/8/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Louisiana Roads Scholar Program
A Key To Success

LOCAL TECHNICAL ASSISTANCE PROGRAM
LTAP
LOUISIANA TRANSPORTATION RESEARCH CENTER

Certificate of Training

PRESENTED BY

Louisiana Local Technical
Assistance Program

TO CERTIFY THAT

Joey Mingo

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS IN:

Roads Scholar #9: The Road to Better Signing

Steven C. Strength
Director, LTAP

October 26, 2023
Date

New Orleans, LA
Location

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Attendance

Local Public Agency Qualification Program
LPA Qualification Core Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
&
The Federal Highway Administration

TO CERTIFY THAT

Joey Mingo

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS

Steven C. Strength
Director, LTAP

June 14, 2022
Date

Baton Rouge, Louisiana
Location

Certificate of Training

this certifies that

Joseph Mingo

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training Course

Awarded on this **31st** *day of* **March 2021**

Louisiana Roads Scholar Program
A Key To Success

LOCAL TECHNICAL ASSISTANCE PROGRAM
LTAP
Celebrating 25 Years

Certificate of Training

PRESENTED BY

Louisiana Local Technical
Assistance Program

TO CERTIFY THAT

Cal Joy

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS IN:

RS #9 – The Road to Better Signing

Steven C. Strength

Director-LTAP

November, 7, 2023
Date

Baton Rouge, Louisiana
Location

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Cal Joy

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/7/2021 to 4/8/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Congratulations!

Cal Joy

You have completed

Traffic Engineering Analysis Process & Report Class
Modules 1, 2 &3

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

CERTIFICATE IS AWARDED TO

CALDWELL JOY

Has successfully completed a flagger training course meeting the requirement of the

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

on the following date

APR 01, 2021

Valid for 4 years from completion date.

Expires APR 01, 2025

This temporary/backup certificate is valid with a government issued photo ID.

Verify this certificate against the information online use the code below to view or print duplicate certificates

1253-1061-106108

Enter the code to verify this certificate is an original at

https://process.onlineflagger.com/duplicate

Transportation Professional Certification Board Inc.

certifies that

Frank T. Liang

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 3362 issued in Washington, D.C., U.S.A.
November 26, 2012

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER
TRANSPORTATION PROFESSIONAL CERTIFICATION BOARD INC.

Executive Director

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Frank Liang

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

10/8/2021 to 10/8/2025
Training Valid Through

New Orleans, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Completion

presented to

Frank Liang

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Frank Liang

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Frank Liang

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Transportation Professional Certification Board Inc.

certifies that

David Gerard LeBreton, 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 3333 issued in Washington, D.C. U.S.A.
November 26, 2012

Steven D. Hofener
Chair

PTOE
PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

Executive Director

Transportation Professional Certification Board, Inc.

certifies that

David Gerard LeBreton 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 667 issued in Washington, DC, USA

03/27/2019

Diane Morabito
Chair

PTP
PROFESSIONAL TRANSPORTATION PLANNER

Jeffrey F. Paniati
Executive Director

Transportation Professional Certification Board, Inc.

certifies that

David Gerard LeBreton Jr.

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 314 issued in Washington, DC, USA

07/17/2019

Diane W. Morabito
Chair

RSP
ROAD SAFETY PROFESSIONAL

Jeffrey F. Paniati
Executive Director

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Taylor Marino

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

5/27/2022 to 5/27/2026
Training Valid Through

Director of Training

New Orleans, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Completion

presented to

Taylor Marino

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Taylor Marino

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Taylor Marino

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Stephanie Turner

for completing the

Traffic Engineering Analysis Process & Report Class
Module 1, 2 & 3

Date: July 10 – 11, 2024
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Stephanie Bayne
has attended
Traffic Control Technician-LA State Specific
Training Course

5/24/2022 to 5/24/2026
Training Valid Through

Director of Training

New Orleans, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA

Safer Roads Save Lives

Michael Flynn

has attended
Louisiana Traffic Control Supervisor

Completed: 05-DEC-2024

CEU (If Applicable): 1.5

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

Michael Flynn

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

Michael Flynn

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

Michael Flynn

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

State of Louisiana Secretary of State

COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
BUCHART HORN, INC.	Business Corporation (Non-Louisiana)	YORK	Active

Previous Names

BUCHART-HORN, INC. (Changed: 8/18/2023)

Business: BUCHART HORN, INC.
Charter Number: 34387362F
Registration Date: 8/27/1991

Domicile Address

445 W. PHILADELPHIA ST.
YORK, PA 17401

Mailing Address

445 W. PHILADELPHIA ST.
YORK, PA 17401

Principal Business Office

445 W. PHILADELPHIA ST.
YORK, PA 17401

Registered Office in Louisiana

4459B BLUEBONNET BLVD.
BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana

4459B BLUEBONNET BLVD
BATON ROUGE, LA 70809

Status

Status: **Active**
Annual Report Status: **In Good Standing**
Qualified: 8/27/1991
Last Report Filed: 8/5/2024
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: COGENCY GLOBAL INC.
Address 1: 4459B BLUEBONNET BLVD.
City, State, Zip: BATON ROUGE, LA 70809
Appointment Date: 5/24/2013

State of Louisiana Secretary of State

COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
DIGITAL ENGINEERING & IMAGING, INC.	Business Corporation	KENNER	Active

Previous Names

DIGITAL IMAGING, INC. (Changed: 9/8/1993)

Business: DIGITAL ENGINEERING & IMAGING, INC.
Charter Number: 34358034D
Registration Date: 6/14/1990

Domicile Address

527 W. ESPLANADE AVENUE
SUITE 200
KENNER, LA 70065

Mailing Address

527 W. ESPLANADE AVE., STE. 200
KENNER, LA 70065

Principal Office Address

527 W. ESPLANADE AVENUE
SUITE 200
KENNER, LA 70065

Status

Status: **Active**
Annual Report Status: **In Good Standing**
File Date: 6/14/1990
Last Report Filed: 6/11/2024
Type: Business Corporation

Registered Agent(s)

Agent: JONES WALKER LLP
Address 1: 201 ST. CHARLES AVENUE
City, State, Zip: NEW ORLEANS, LA 701705100
Appointment Date: 1/24/2025

Officer(s)

Additional Officers: No

Officer: DAVID LEBRETON JR
Title: Officer
Address 1: 527 W. ESPLANADE AVENUE, SUITE 200

21 QA/QC PLAN:

22 SUB-CONSULTANT INFORMATION:

Firm Name (Name must match exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	Address	Point of Contact and email address	Phone Number
BUCHART HORN, INC.	18163 East Petroleum Drive, Suite A Baton Rouge, LA 70809-6104	James Q. Dickerson, III, PE, PS jdickerson@bucharthorn.com	412 422 6166
DIGITAL ENGINEERING & IMAGING, INC.	527 West Esplanade Avenue Suite 200 Kenner, LA 70065	Alan Krouse, PE akrouse@deii.net	504 468 6129

23 LOCATION:

Arcadis
6100 Corporate Blvd., Suite 325
Baton Rouge, LA 70808
T. 225 292 1004

www.arcadis.com

www.arcadis.com

Arcadis North America

Arcadis

@ARCADIS_US