

IDIQ CONTRACTS FOR SAFETY STUDIES STATEWIDE



Arcadis. Improving quality of life



Tuesday, February 22, 2022

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

Subject: **Contract Nos. 4400023689 and 4400023690**

IDIQ Contracts for Safety Studies, Statewide

Arcadis U.S., Inc. 10352 Plaza Americana Drive Baton Rouge, Louisiana 70816

Fax: 225 218 9677 www.arcadis.com

Phone: 225 292 1004

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 20 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 TEAM

Our project delivery team has been selected for the individual strengths each partner can provide and complimentary team synergy developed working together on previous projects. **Buchart Horn** brings a depth of LADOTD experience including planning, environmental, and roadway design. **Digital Engineering** has been under contract with LADOTD Safety Programs for 15 years including Safety Routes to Schools, Safe Routes to Public Places and Local Road Safety Programs. Digital Engineering has worked with over 32 LPAs and has performed on 83 task orders with LADOTD / LPAs for safety feasibility and design services that have been completed or are ongoing. Under **Grey Engineering**, Ms. April Renard brings over 12 years of experience with LADOTD, where she served as a Highway Safety Manager, led Complete Streets policy implementation activities, and developed guidance for developing data-driven safety considerations through LADOTD's project delivery process.

OUR APPROACH

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

As a cornerstone to our approach, the Arcadis Team offers a deep bench of experienced professionals that provide redundancy in all aspects of this IDIQ contract. In addition to the team members presented in this proposal, the Arcadis Team includes a range of experienced local and regional resources that can be utilized 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. 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. 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 with delivery of 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 design for all state DOTs in the southeast. In-depth experience with LADOTD roadway (past performance rating – 3.8/5) design guidelines and manuals, and multimodal facility design and best practices.

OUR STRENGTHS

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

OUR MOTIVATION

Improving quality of life is our motivation and is at the forefront of every project we deliver. For Stage 0 Safety Studies and Design Projects, that means only progressing **safe**, **cost-effective**, **and constructable alternatives** that promote mobility and sustainability for the environment and communities they serve. We look forward to the opportunity to continue partnering with LADOTD to improve the safety, service, and reliability of Louisiana's transportation system. Thank you for your time and consideration.

Sincerely, Arcadis

> Akhil Chauhan PE, PTOE, PTP, PMP Senior Vice President, Transportation Services

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



Sections 1-11

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



- New Orleans Pedestrian Safety Feasibility Study
- 2. LA 3235 Corridor Stage 0 Safety Feasibility Study
- 3. I-10 Hard Shoulder Running (HSR) Feasibility Study
- Florida Avenue Expressway Feasibility Study
- 5. I-10 from I-610 to Twin Spans Feasibility Study
- LA 52 Widening (Paul Maillard Rd) Feasibility Study
- Widening of US 61 Feasibility Study
- 8. I-310/US 90 Intersection Feasibility Study
- Transportation Surveillance Planning Study
- 10. US 61 Safety Improvements Stage 0 Feasibility Study
- 11. Evangeline Thwy / Johnston St Intersection Study
- 12. Johnston St / Ambassador Caffery Intersection Study
- 13. I-49 Interchange Stage 0 Safety Feasibility Study
- 14. US 167 Feasibility Study, Elsie Street to Gilbert Dr
- 15. US 167 Feasibility Study, Enola Street to Ross Rd
- 16. LA 182 Sidewalk and Handicap Ramp Improvements
- 17. I-10 at Ambassador Caffery Feasibility Study
- 18. US 90 to I-49 Rail Crossing Feasibility Study
- 19. East Vine St (US 190) Feasibility Study
- 20. LA 3105 Corridor & Safety Feasibility Study
- 21. LA 157 Corridor & Safety Feasibility Study
- 22. LA 3132 Inner Loop Extension Feasibility Study
- 23. LA 594 Millhaven Stage 0 Safety Feasibility Study
- 24. US 165 Corridor and Safety Feasibility Study
- 25. I-20 Frontage Development Study
- 26. LA 12 Sabine River Bridge Feasibility Study
- 27. US 71 Corridor Safety Feasibility Studies (Phases 1-3)

- 28. LA 117 from LA 8 to LA 118 Feasibility Study
- 29. St. Tammany Intersection Safety Imp Study
- 30. Duty Ferry Crossing Replacement Feasibility Study
- 31. Baton Rouge Ped / Bike Road Safety Assessments
- 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 Feasibility 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

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

1	Contract title as shown in the advertisement	IDIQ CONTRACTS FOR SAFETY STUDIES
	Contract thic as shown in the davernsement	STATEWIDE
2.	Contract number(s) as shown in the advertisement	CONTRACT NOS. 4400023689 AND 4400023690
3.	State Project Number(s), if shown in the advertisement	N/A
4.	Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	ARCADIS ARCADIS U.S., INC.
5.	Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0002808 DUNS 057690414
6.	Prime consultant mailing address	10352 Plaza Americana Drive Baton Rouge, LA 70816
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	10352 Plaza Americana Drive Baton Rouge, LA 70816
8.	Name, title, phone number, and email address of prime consultant's contract point of contact	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 Senior Vice President 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.
- 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.

15/2

Akhil Chauhan, PE, PTOE, PTP, PMP

Date: February 22, 2022

Firm(s): Firm(s)' %:



Sections 12-14

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



- Lockport Sidewalk Improvements
- New Orleans Pedestrian Crosswalk Improvements
- Gretna Sidewalks & Safety Improvements
- Gretna Downtown Intersection Improvements
- New Orleans SRTS Sidewalk Improvements
- North Kenner Pedestrian Safety Improvements
- Kenner Signing & Striping Improvements
- 8. Audubon Ave & Ardoyne Dr Mini Roundabout
- Peltier Park Sidewalk Improvements
- Raceland & Bayou Blue Sidewalks
- Acadia Parish Pavement Marking Improvements
- 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

- Town of Kinder 13th Street Sidewalk Improvements
- Town of Vinton Vinton Street Sign Replacements
- 19. Napoleonville Safe Routes to Schools Improvements
- 20. City of Central Rumble Strips & Safety Improvements
- Zachary Taylor & Marconi Dr Sidewalks Improvements
- Pearl River Pavement Marking Improvements
- Independence Street Sign Replacements
- 24. Tangipahoa Parish Railroad Safety Improvements
- 25. **Bogalusa Pavement Marking Improvements**
- 26. Livingston Parish Railroad Safety Improvements
- St. John the Baptist Parish Sidewalks Phase I
- 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

Design Plans were completed, and Construction Documents were provided for LADOTD Safe Routes to Schools and Local Road Safety Program and Safety Design IDIQs

12. Past Performance Evaluation Discipline Table:

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

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

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

Evaluation Discipline(s)	% of Overall Contract	Arcadis	Buchart Horn	Digital Engineering	Grey Engineering *	
Traffic*	55%	75%	10%	10%	5%	
Planning	25%	45%	40%	10%	5%	
Road	20%	15%	25%	60%	0%	
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	100%	56%	20%	20%	4%	

^{*}Traffic Evaluation Discipline involves both Safety (40%) and Traffic (15%) services.

^{*} DBE Certification Anticipated Soon

13. Firm Size:

http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/CCS/Job Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
	Principal	2	4
	Supervisor Engineer	4	8
	Supervisor Engineer-Other	2	3
	Engineer	3	9
	Engineer-Other	1	1
ARCADIS	Engineering Aide	1	2
V // I (O ADIO	Planner	2	4
	Environmental Professional	3	3
	GIS Analyst	2	3
	Professional	2	2
	Engineer Intern	2	2
	Principal	2	3
	Supervisor Engineer	3	4
BUCHART HORN	Engineer	2	3
BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	Engineer-Other	1	5
	Engineer Intern	1	1
	Planner	1	1
	Principal	2	5
	Supervisor-Engineer	1	5
digital engineering	Engineer	2	3
engineering	Supervisor - Other	0	3
DIGITAL ENGINEERING & IMAGING, INC.	Engineer Intern	0	2
DIGITAL ENGINEERING & IMAGING, INC.	CADD Technician	1	3
Grey Engineering, LLC	Principal	1	1

(Add rows as needed)

14. Organizational Chart:



Principal-in-Charge



Akhil Chauhan, PE, PTOE, PTP. PMP¹*

Project Manager



Ari Deitch, PE, PTOE, PTP, RSP¹ ◆*



Jonathan Reid, PE, PTOE, RSP1



Safety:

Akhil Chauhan, PE, PTOE, PTP. PMP1*

QA/QC and Technical Advisors



Environmental:

James Dickerson, PE, PS²



Bed/Bike Low-Cost Safety Design:

Frank Liang, PE, PTOE³* ◆



Roadway: Buddy Porta, PE1

Stage 0 Safety Studies

Meeting TEPR Requirement*

Workzone Training *

Digital Engineering³

Grey Engineering⁴

Legend:

Arcadis¹ Buchart Horn²

Ari Deitch, PE, PTOE, PTP, RSP¹*◆

Greg Badon¹* April Renard, PE, PTOE, RSP4* Jose M. Rodriguez, RSP1 * Justin Maderia, PE, PTOE, PTP1* Caldwell P. "Cal" Joy, PE² Joseph Mingo, PE² Max Aguirre, PhD, PE, RSP¹*◆

Road Safety Assessments

Greg Badon¹

Jose M. Rodriguez, RSP¹ Kester Hollier, PE, PTOE¹*◆ Yuwen Hou, AICP, PTP, RSP1 David LeBreton, PE, PTOE, RSP³ • Jose L. Rodriguez, PE¹◆

Safety Effectiveness Évaluation

Jose M. Rodriguez, RSP1* Justin Maderia, PE, PTOE, PTP1* Jody Peace, PE, PTOE, RSP1 Max Aguirre, PhD, PE, RSP¹◆

Low-Cost Safety Design

Jose L. Rodriguez, PE¹◆ David Fulks, PE1 Alan Krouse, PE³ ◆ David LeBreton, PE, PTOE, RSP³ Taylor Marino, PE, PTOE³*◆ Michael Flynn, PE3*

Environmental

Jason Morrell, PWS1

Greg Badon¹ Jayun Thibodeaux¹ John L. Mettille, Jr.²

Traffic Engineering

Kester Hollier, PE, PTOE¹*◆

Ari Deitch, PE, PTOE, PTP, RSP1*◆ Thomas Montz, PE, PTOE, PTP¹*◆ Ghouse Sundke, PE, PTOE²*

Data Analytics & Visualization / GIS / CADD

Jose M. Rodriguez, RSP1* Josh Chatelain¹ Michael Cochran³

Ped/Bike / Complete Streets

April Renard, PE, PTOE, RSP4* David LeBreton, PE, PTOE, RSP³◆ Yuwen Hou, AICP, PTP, RSP1 Jack Cebe, PE, RLA¹



Sections 15-16

ARCADIS HAS DEVELOPED CUSTOMIZED INTERACTIVE DASHBOARDS FOR CRASH AND SAFETY ANALYSIS TO IDENTIFY SAFETY TRENDS AND ISSUES

Pedestrian and Bicyclist Crash Analysis (2011-2015) City of Baton Rouge, LA Manner of Collision Number of Crashes Ped or Bic Involvement Intersection Crashes Alcohol Related 412 Bicyclist Pedestrian Unknown Action Before Crash of At Fault Subject At Fault Subject Rear End 13% Crashes per Year Crash Severity Not at Int Traffic Control Operation Unk Condition of At Fault Subject Ped/Bic Ethnicity Ped/Bic Gender Ped/Bic Age 2012 2013 2014 PDO Lighting Conditions Surface Conditions Drinkin... Physic... Wet Other-Unk Dark-No Dark-St Maringouin 12 Crash Distribution by Day and Time Hit and Run CRASH_HOUR (groups) Mon Tue 1. 0:00 - 4:00 2. 4:00 - 8:00 3. 8:00 - 12:00 4. 12:00 - 16:00 **Bing** 5. 16:00 - 20:00 6. 20:00 - 24:00

CONFIDENTIAL INFORMATION - This document and the information contained herein is prepared solely for the purpose of identifying, evaluating and planning safety improvements on public roads which may be implemented utilizing federal aid highway funds; and is therefore exempt from discovery or admission into evidence pursuant to 23 U.S.C. 409. Contact the Traffic Safety Office at (225)379-1871 before releasing any information.

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 / certification & number	State of license	License / certification expiration date
1	Akhil Chauhan, PE, PTOE, PTP, PMP	ARCADIS	PE	LA	PE. 33703/
	(>20 years' experience)	· // !! (O 1210			09/30/2022
2	Kester Hollier, PE, PTOE	ARCADIS	PE	LA	PE. 34304/
_	(>17 years' experience)	MAINOADIO	· -		03/31/2023
	David Fulks, PE	ARCADIS	PE	LA	PE. 30151/
3	(>26 years' experience)	CIDIO		LA	09/30/2022
	Jose L. Rodriguez, PE	ARCADIS	PE	LA	PE. 30492/
	(>24 years' experience)	AROADIS	1 L	LA	03/31/2023
	Ari Deitch, PE, PTOE, PTP, RSP	ARCADIS	ARCADIS PE, PTOE	LA, US	PE. 41842/
					3/31/2022
	(>10 years' experience)				PTOE: 4346/ 11/2023
	Thomas Montz, PE, PTOE, PTP (>17 years' experience)	ARCADIS	PE, PTOE	LA, US	PE. 39128/
					09/30/2022
4					PTOE: 4093/ 07/2022
4		BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS	PE, PTOE	LA, US	PE. 39678
	Ghouse Sundke, PE, PTOE				09/30/2023
	(>15 years' experience)				PTOE: 3146/ 03/2023
	B 111 B 1 B 5 B 5 B 5 B 5 B 5 B 5 B 5 B				PE. 37176
	David LeBreton, PE, PTOE, PTP, RSP	digital engineering	PE, PTOE	LA, US	09/30/2022
	(>14 years' experience)				PTOE: 3333/ 11/2024

(Add rows as needed)

MPR Nos. 1 through 4 may be met by the same person.

MPR No. 4 may be satisfied through the use of a sub-consultant(s).

16. Staff Experience:

PERSONNEL RESUMES

CONTRACT LEADERSHIP

Firm employed by	ARCADIS		
. , ,	auhan, PE, PTOE, PTP, PMP	Years of relevant experience with this employer	14
Title Principal	Engineer	Years of relevant experience with other employer(s)	6
Degree(s) / Years	/ Specialization	MS / 2003 / Transportation Engineering, Massachus BS / 2001 / Civil Engineering, Indian Institute of Tech	- ·
Active registration	n number / state / expiration		Exp. 11/2023;
Year registered	2008 Discip	ne Civil Engineering	
Contract role(s) /	brief description of responsi	lities. Principal In Charge, QAQC and Technical Advisory (T	raffic)
Experience dates	Experience and qualification	is relevant to the proposed contract	
12/13 - 06/15	highway safety, traffic engineersection/corridor analymentored numerous projectients located across the macro-, meso-, and microsopynameq, DynaMIT, Transection Engineering Process and Research LA 3235 Stage 0 Safety Feather preparation of a formal Main tasks included traffic layouts, and public outred including RCUT, MUT, and Manual predictive method checklists were completed.	ibility Study, LADOTD, Lafourche Parish, LA. Project Manager corridor safety study that analyzed alternatives and enhance data collection, warrant studies, traffic analysis, safety analyh. Intersections found to warrant signalization were also mode on tinuous T-intersections. Safety performance of alternatives. Preliminary cost estimates and conceptual layout drawings apart of study documentation.	hing, demand modeling/forecasting, hil has successfully led, managed, and ion, and planning for public agency. He is proficient in the use of many o, Synchro, SIDRA, Vissim, MITSIM, a completed the LADOTD Traffic. Trand Principal Engineer. Responsible for ed safety and mobility on LA 3235. Eysis, development of conceptual deled in unconventional designs as was estimated using Highways Safety is were also produced. Stage 0
04/16 - 09/18 12/13 - 05/15	Preparation of <i>pedestrian</i> between motorized and no pedestrians), analysis of exintersection, <i>recommenda</i> improvements, signing improvements, ADA compliance in <i>development</i> , <i>cost estima</i>		estrian safety issues - especially lection (for both vehicles and estigation of safety deficiencies at each ents, intersection striping evements, curb extensions, traffic ternatives and conceptual layout
12,13 03,13	Joe Sevario / Roddy Road Stage 0 Safety Feasibility Study, LADOTD, Ascension Parish, LA. <i>Project Manager and Principal Engineer</i> . Evaluation of roundabouts at 10 stop-controlled intersections along Joe Sevario / Roddy Road, from US 61 to LA 42 length of approximately 7.2 miles. Main tasks include <i>traffic data collection</i> , <i>crash analysis</i> , <i>capacity analysis</i> , <i>safety analysis</i> review of existing pipelines and other municipal utilities, <i>alternatives analysis</i> , <i>design development</i> , and <i>cost estimates</i> .		

02/18 – 06/21	Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA. <i>Principal Engineer</i> . Responsible for contract management and technical advisory for the project, which involved the development of a Pedestrian and Bicycle Safety Action Plan (PBSAP). Arcadis <i>developed screening criteria</i> based on crash data and socioeconomic data to identify high priority locations with a history of pedestrian and/or bicycle crashes, and performed <i>Road Safety Assessments (RSAs)</i> at 10 priority locations to identify safety deficiencies and <i>develop safety countermeasures</i> to <i>improve safety for pedestrians and bicyclists</i> .
04/16 – 10/19	I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA. <i>Principal Engineer</i> . Responsible for contract management and technical advisory of project tasks. Arcadis researched best practices around the country to develop potential alternatives. <i>Highway Safety Manual methods</i> were applied to <i>quantify the safety performance of proposed alternatives</i> . Traffic analysis was performed using a <i>calibrated microsimulation model</i> to evaluate the operational performance of HSR and HOV lane alternatives. <i>Conceptual drawings</i> and <i>construction cost estimates</i> were developed to evaluate the feasibility of proposed alternatives.
02/15 – 08/17	US 71 Corridor - Phase II Stage 0 Feasibility Study, LADOTD; Rapides Parish, LA. <i>Principal Engineer</i> . Responsible for overseeing the preparation of a <i>traffic and safety study</i> for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included <i>traffic data collection</i> , warrant studies, <i>traffic analysis</i> , <i>safety data analysis</i> , and development of <i>conceptual layouts</i> . Arcadis developed alternatives to address identified needs on US 71 using a <i>data driven</i> , <i>tiered analysis approach</i> . Alternatives were developed in <i>close coordination with District 08 staff</i> to better understand project needs and incorporate context sensitive solutions.
02/17 – 02/18	I-49 Interchange Stage 0 Safety Feasibility Study, LADOTD, Lafayette Parish, LA. <i>Principal Engineer</i> . Responsible for contract management and technical advisory for project tasks including <i>data collection and analysis</i> , <i>traffic and safety analysis</i> , and <i>conceptual design drawings</i> . Purpose of the project was to identify <i>feasible improvement alternatives</i> to address historical safety issues along the I-49 corridor and at 3 interchanges. Participated with meetings with LADOTD HQ and District 03 team members to understand project needs and develop context sensitive solutions.
04/16 – Ongoing	Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. <i>Principal Engineer</i> . Responsible for contract management and deliverables for the project which included <i>traffic and safety analysis, alternative screening and analysis, preliminary raodway and bridge design, line and grade</i> , Interchange Modification Report, <i>and Environmental Assessment</i> . Purpose of the project is to <i>improving operations and safety</i> along Range Avenue at the I-12 interchange and along I-12. Design alternatives included two split diamond interchange options with roundabout, partial cloverleafs, and collector distributor road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA 16), and a diverging diamond interchange alternative at Range Avenue.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. <i>Principal Engineer:</i> Responsible for technical advisory and QAQC of all <i>traffic engineering</i> tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of Interstate-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a <i>calibrated mesoscopic model</i> to determine the impacts during construction and mitigations that will be necessary to minimize delay.

Firm employed by	@ARCADI:	S			
Name Ari Deitch	n, PE, PTOE, PTP, R		Years of relevant experience with this employer	8	
Title Senior Tr	Senior Transportation Engineer		Years of relevant experience with other employer(s)	2	
Degree(s) / Years /	/ Specialization		BS / 2012 / Biological Engineering, Louisiana State Unive	ersity	
Active registration	number / state / e	expiration date	PE.0041842 / LA / Exp. 03/2022; PTOE #4346 / USA / Ex	•	
			PTP #690 / USA / Exp. 07/2022; RSP #37 / USA / Exp. 12,	/2024;	
Year registered	2018	Discipline	Civil Engineering		
	orief description of		Project Manager, Stage 0 Safety Studies, Traffic Enginee	ering	
Experience dates			ant to the proposed contract		
			neer and <u>Project Manager specializing in traffic safety</u> , <u>tra</u>	•	
	· ·		conceptual roadway design. Mr. Deitch has experience ma		
886			r LADOTD, and other DOTs and municipalities across the c		
			strian and bicycle improvements, completed streets, Stag		
			nt plans, NEPA studies, signal design, and signing and mar		
TO A	= -		ods and is proficient in IHSDM, Synchro, Vistro, VISSIM, SI		
,			completed the LADOTD Traffic Engineering Process and R	<u> </u>	
04/21 - Ongoing	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			
	·	cations to emphasi			
04/16 – 09/18		_	Ifety Feasibility Study, LADOTD, Orleans Parish, LA. Assista		
	_	_	fety deficiencies related to pedestrian and bicycle modes		
	countermeasures for 20 high-risk locations. Developed design drawings for proposed short-term and long-term improvement				
	phases and conducted <i>benefit-cost analysis</i> to inform project prioritization. Conducted safety analysis using <i>Highway Safety</i>				
	Manual predictive methods. Organized and lead project stakeholder meetings to review alternatives, obtain feedback, and				
	develop <i>context sensitive solutions</i> . Completed <i>Stage 0 documentation</i> including <i>Preliminary Scope and Budget and Environmental Checklists</i> for all 20 intersections.				
02/15 – 09/18			office and Safety Corridor Study, LADOTD; Rapides Parish, L	↑ Project Manager and Traffic	
02/13 03/10			ng and managing project tasks including <i>traffic data colle</i>	• •	
			e and countermeasure development, predictive safety of		
02/18 – 06/21			e Safety Action Plan and Road Safety Assessments, LADOT		
Traffic Engineer. Responsible for assessing existing and future safety deficiencies related to pede				<u> </u>	
	• • • • • • • • • • • • • • • • • • • •	•	nd segments in East Baton Rouge Parish. Assisted with the	·	
to identify high priority locations with a history of pedestrian and/or bicycle crashes. Participated in <i>Road Safety</i> A					
(RSAs) at 10 priority locations to identify and evaluate safety deficiencies and develop safety countermeasures to impro					
		trians and bicyclis		•	

08/14 – 06/15	LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA. <i>Traffic Engineer</i> . Responsible for review of existing <i>crash data</i> and <i>traffic operations analysis</i> , development of <i>safety countermeasures</i> , conceptual drawings, <i>signal warrant analysis and timing plans</i> . and <i>Stage 0 documentation</i> . Purpose of the project was to develop <i>access management strategies</i> and roadway improvements that will maintain and improve mobility, improve safety, support existing and future development along the LA 3235 corridor. Safety performance of alternatives was estimated using <i>Highways Safety Manual predictive methods</i> .
04/16 – 10/19	I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA. <i>Traffic Engineer</i> . Conducted <i>traffic analysis</i> using a calibrated microsimulation model to evaluate the operational performance of HSR and HOV lane alternatives. Developed <i>conceptual drawings</i> and <i>construction cost estimates</i> to evaluate the <i>feasibility</i> of proposed alternatives.
02/17 – 02/18	I-49 Interchange Stage 0 Safety Feasibility Study, LADOTD, Lafayette Parish, LA. <i>Traffic Engineer</i> . Responsible for <i>data collection</i> 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.
01/19 – 05/20	US 90 Ramps at LA 88 Roundabouts, Iberia Parish, Louisiana. <i>Transportation Engineer</i> . Assisted with permanent signing and striping components of <i>roadway safety design plans</i> to accommodate the construction of proposed roundabouts.
08/19 – 02/20	US 61 Access Management and Corridor Improvements, LADOTD, East Baton Rouge Parish, LA. Technical support and QAQC. 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.
04/16 – Ongoing	Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. <i>Traffic Engineer</i> . Responsible for <i>traffic analysis</i> of proposed alternatives using VISSIM software. Played a key role in the development of preliminary <i>roadway design drawings</i> , incorporation LADOTD's <i>Complete Streets Policy</i> , and implementing <i>enhanced pedestrian safety measures</i> such as high visibility crosswalks. Work involves completing an <i>Environmental Assessment</i> and providing traffic engineering services related to <i>improving operations and safety</i> along Range Avenue at the I-12 interchange. Conducted <i>signal warrant analysis</i> and developed <i>optimized timing plans</i> for proposed improvements.
02/15 – 11/17	Intersection Feasibility Study - Evangeline Thwy, Johnston St, & Louisiana Ave, LADOTD, Lafayette Parish, LA. <i>Traffic Engineer:</i> Responsible for <i>review of existing crash data, traffic operations analysis,</i> and <i>development of design alternatives</i> . Objective is to develop alternatives for the intersection of Evangeline Thruway (US 167/90) and Johnston Street (US 167) / Louisiana Avenue (LA 94) that will <i>improve safety and mobility</i> . Evangeline Thruway consists of two one-way roadways with three lanes in each direction. Three alternatives for each intersection at Johnston Street / Louisiana Avenue were developed based on the results traffic and safety analysis.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. <i>Traffic Engineer:</i> Responsible for wide range of <i>traffic engineering</i> tasks including development of <i>permanent signing plans</i> , 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.

PERSONNEL RESUMES

SAFETY AND TRAFFIC ENGINEERS

Firm employed by	ARCADIS				
Name Jose M. F	Rodriguez, RSP	Years of relevant experience with this employer	5		
Title Safety Ar	nalyst	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	n number / state / expiration date	RSP # 12 / USA / Exp. 05/2022			
Year registered	2019 Discipline	Road Safety Professional			
Contract role(s) /	brief description of responsibilities.	Stage O Safety Studies, Road Safety Assessments, Safet	ty Effectiveness Evaluation,		
		Data Visualization			
Experience dates	Experience and qualifications relev	ant to the proposed contract			
450	Mr. Rodriguez specializes in transp	ortation safety and has experience on a wide range of pr	ojects including <u>Stage 0 feasibility</u>		
	studies, Road Safety Assessments,	pedestrian and bicycle improvements, and systemic safe	ty evaluation projects. Mr. Rodriguez		
A STATE OF THE STA	has extensive experience in crash a	analysis and the application of Highway Safety Manual M	ethods including Crash Modification		
	Factors and Safety Performance Fu	ınctions for local and nonlocal conditions. Mr. Rodriguez	develops <u>dynamic web dashboards</u>		
		<u>anize data analysis results</u> . Mr. Rodriguez has performed			
		OTD, and is currently assisting LADOTD with the 2022 St	rategic Highway Safety Plan Update.		
		OTD Traffic Engineering Process and Report Training.			
04/14 - 03/16		ety Performance Functions (SPFs) and Louisiana Specific			
		he HSM SPFs based on the HSM recommendations and S	•		
,		tatistical analyses and procedures recommended by the			
04/21 - Ongoing		Plan Update, LADOTD, Statewide, LA. Safety Analyst. Re	•		
		e, including a statistical analysis of existing emphasis ar	eas and evaluating potential		
02/17 00/10	modifications to emphasis areas.	C. F. Hills Co. I. LADOTD C.L. B. H. LA C.C.			
03/17 – 09/18		fety Feasibility Study, LADOTD, Orleans Parish, LA. Safet			
	and safety analyses performed for 20 high priority intersections utilizing the <i>Highway Safety Manual (HSM) 2010 guidelines</i>				
	and <i>Crash Modification Factors (CMFs)</i> from other sources. Analyses include developing build alternatives that address safety and operational issues at each intersection for all road users and developing <i>Stage 0 Checklists and Documentation</i> .				
03/17 – 08/17					
03/1/ - 08/1/		easibility Study, LADOTD; Rapides Parish, LA. Safety Analy ety issues. Assisted with the development of build altern	•		
		analysis to estimate the potential reduction in crashes for			
	completion of Stage 0 Checklists a	·	JI Each alternative. Assisted with the		
05/18 – 06/21			Fact Baton Rouge Parish I.A. Safety		
03/18 00/21	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 <i>review of crash data</i> , identification of priority locations, and creation of <i>targeted safety</i>				
	countermeasures based on roadway type. He was responsible for reviewing the crash data in both (Geographic Information				
	Systems) GIS and PowerBI to determine areas to focus on 10 locations with the most need for pedestrian/bicycle safety improvement. The second phase of the project included conducting Road Safety Audits (RSA's) at the 10 priority locations to				
	identify safety issues and develop feasible alternatives to improve pedestrian and bicycle safety				

03/17 – 10/19	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 <i>CMFs to predict impacts to safety</i> by reducing lane and / or shoulder widths. Produced a
	high-level technical memorandum that will <i>identify and evaluate feasible alternatives</i> 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	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 <i>HSM Predictive Method and IHSDM</i> .
03/17 – Ongoing	Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. Traffic and Safety
2 - , 2	Analyst. Responsible for methodology development and overview of traffic analyses for a high-priority project. Work involves
	completing an EA and providing traffic engineering services related to <i>improving operations and safety</i> along Range Avenue at
	the I-12 interchange. Design alternatives included two split diamond interchange options with roundabout. partial cloverleafs,
	and collector-distributor road components at both Range Avenue and the next existing, eastern overpass at Pete's Highway (LA
	16); and a diverging diamond interchange alternative at Range Avenue. <i>Performed HSM predictive safety analysis</i> to
	determine the safety benefits of proposed improvements.
2010 Ongoing	
2019 – Ongoing	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 – Ongoing	Local Road Systemic Safety Task Order Contract, ODOT, Statewide. Safety Analyst. Assisted with four concurrent task orders to
	perform <i>data driven systemic safety analysis</i> 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, <i>identifying and prioritizing safety improvements</i> , and developing online web
	applications to clearly convey results to stakeholders using ESRI ArcMap and Microsoft PowerBI.
	,

Figure a paralla ya di hay	Cray Engine	aning IIC			
Firm employed by Grey Engineering, LLC Name April Renard, PE, PTOE, RSP2I			Veers of relevant experience with this employer	<1	
		² 21	Years of relevant experience with this employer	16	
•	& Owner		Years of relevant experience with other employer(s)	10	
Degree(s) / Years		avairation data	BS / 2006 / Civil Engineering	. DTOE #200E / 07/2024	
Active registration			PE.0035660 / LA / Exp. 09/30/22; RSP #357 / 12/2022	; PTOE #3905 / 07/2024	
Year registered	2010	Discipline	Civil Engineering		
Contract role(s) /	'	<u>'</u>	Stage O Safety Studies, Ped/Bike/Complete Streets		
Experience dates			ant to the proposed contract		
Ms. Renard's involvement with NCHRP projects, TRB committees, AASHTO's Committee on Safety, and AASHTO's Task Force the second edition of the Highway Safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD. She led the development of a <u>Data-Driven Safety Analysis Implementation Plan</u> in a collaborative effort with FHW and a <u>Complete Streets Implementation Plan</u> . Through collaboration, careful intention and sustained effort, she helped transform safety decision-making into an objective, data-driven process aiming to save lives and minimize injuries. Ms. Renamentation Plan in a collaborative effort with FHW and a <u>Complete Streets Implementation Plan</u> . Through collaboration, careful intention and sustained effort, she helped transform safety decision-making into an objective, data-driven process aiming to save lives and minimize injuries. Ms. Renamentation Plan in a collaborative effort with FHW and a <u>Complete Streets Implementation Plan</u> . Through collaboration, careful intention and sustained effort, she helped transform safety decision-making into an objective, data-driven process aiming to save lives and minimize injuries. Ms. Renamentation Plan is a collaboration of the Highway Safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD transform safety decision-making into an objective of the laboration of the Highway Safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD transform safety decision of the Highway Safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD transform safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD transform safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD transform safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD transform safety Manual enhanced her knowledge base to improve policies and procedures at the LADOTD t				ve policies and procedures at the name a collaborative effort with FHWA sustained effort, she helped	
10/20 – 09/21	City of Baton Rouge & Parish of East Baton Rouge MOVEBR Capacity Program Complete Streets Lead: Subject Matter Expert on Complete Streets by reviewing all design studies, project design reports, and preliminary plans to ensure pedestrians, bicyclist, and transit users of ages and abilities are provided reasonable and appropriate multi-modal facilities given a project's context. Ms. Renard also led the development of standard street cross sections that were adopted into the MOVEBR Design Guidelines to improve walkability, bikability, ADA compliance, transit accommodations, calm traffic, mitigate stormwater runoff impacts, and improve water quality. She also product and hosted a MOVEBR Design Guidelines workshop.				
10/20 – Ongoing					
07/19 – 10/20	created the data-of prioritized projections overall program so Constantin/Dijon, Lobdell Connector	driven prioritization sects. Developed the trategy was developed Old Hammond Hight), which included coquirements, design, I	aton Rouge MOVEBR Project Manager CSRS, Inc.: Project Manager CSRS, Inc.: Project Manager CSRS, Inc.: Project Manager CSRS, Inc.: Project Manager of MOVEBR projects and led the collection and proced MOVEBR federal funding strategy matrix for pursuing federal ed, served as a Project Manager for 6 MOVEBR Capacity way Segment 1, Old Hammond Highway Segment 2, Harding ordinating all aspects of project delivery (e.g. traffic analysis, Right-of-Way acquisition, utility coordination) for reducing programments.	essing of the data to produce the first tier I funds for eligible projects. After the ty Program projects (Midway, at I-110 Interchange, Ardenwoodenvironmental permitting, state and	
07/19 – 10/20	Jefferson Parish B	*	run-off mitigation.	uced design concepts to improve	

09/14 - 07/19	LADOTD Highway Safety Manager: Ms. Renard was responsible for the development and implementation of Louisiana's Strategic
	Highway Safety Plan in coordination with the Federal Highway Administration. She provided direction to staff on the State's safety data
	analysis processes for identifying potential Highway Safety Improvement Program projects (23 U.S.C. 148). Ms. Renard provided guidance
	across disciplines on data-driven safety considerations within LADOTD's project delivery process and led the Complete Streets Policy
	implementation activities for Louisiana. Other projects included the management of the East Baton Rouge Parish Bicycle and Pedestrian
	Masterplan contract, oversight of the Local Road Safety Program in coordination with the Louisiana Local Technical Assistance Program
	(LTAP) Office, and the creation and administration of the first-of-its-kind Safe Routes to Public Places Program. While a LADOTD employee,
	Ms. Renard represented the State on the AASHTO Task Force for the Second Edition of the Highway Safety Manual and served as an expert
	witness concerning protected safety data.
02/10 - 09/14	LADOTD Highway Safety Engineer: Managed consultant contracts for feasibility studies, developed a Road Safety Assessment report
	template and process, developed safety study guidelines for Transportation Management Plans, served on the State's Work Zone Task
	Force, conducted training and provided technical assistance for highway safety analytical tools, and conducted high-profile engineering
	studies (e.g. Statewide Cable Median Barrier Study, LA 10 Task Force study)
10/07 – 02/10	LADOTD Traffic Engineer Intern: Served in LADOTD's Traffic Engineering Section, developed updated pavement marking standards for the
	state, produced traffic simulation models, reviewed pavement marking and signing plans, designed interstate guide signing
	projects, assisted in revising traffic impact study policies and trained Districts on new the policy, and reviewed consultant submittals of
	traffic engineering studies.
05/06 – 10/07	ABMB (now Stantec) Traffic Engineer Intern: First job included producing Interchange Justification Reports, Traffic Impact Studies, and
	simulation models. She conducted a Statewide Feasibility Study for Continuous Flow Intersections (CFI) for the Arkansas Highway
	Transportation Department, developed traffic signal inventories, and reviewed traffic signal plans for a variety of private development
	projects (e.g. Blue Cross Blue Shield, Woman's Hospital, L'Auberge, Walmart, Mall of LA)

Firm employed by	ARCADIS			
Name Jody Peace, PE, PTOE, RSP			Years of relevant experience with this employer	14
	Project Manager III		Years of relevant experience with other employer(s)	2
Degree(s) / Years	•		MS / 2008 / Civil Engineering, Georgia Institute of Tech	nnology
	·		BS / 2007 / Civil Engineering, Georgia Institute of Tech	nology
Active registration	n number / state / ex	xpiration date	PE.036665 / GA / Exp. 12/2022; PTOE #4029 / USA / Ex RSP #224 / USA / Exp. 12/2024	xp. 3/2024;
Year registered	2011	Discipline	Civil Engineering	
	brief description of	'	Road Safety Assessments, Safety Effectiveness Evaluat	 ion
Experience dates	<u> </u>		vant to the proposed contract	
	responsibilities in studies, <u>crash an</u> applying <u>Highwa</u>	iclude travel dem d safety analysis, / Safety Manual I	ineer with experience in transportation safety engineering and modeling, traffic simulation, current and future traffic and air quality analysis. He has experience in conducting Methods to quantify the effectiveness of safety improved of transportation topics to student and professional grounds.	ffic analysis, traffic and corridor g Road Safety Assessments and ments and countermeasures. Mr.
10/11 – 04/12	Traffic and Crash Analysis: Canal Blvd Bus / Streetcar Terminal Environmental Assessment, New Orleans Regional Transit Authority; Orleans Parish, LA. Lead Traffic Modeler. Lead modeler responsible for the development and analysis of the extension of a streetcar line in New Orleans. Responsibilities included overseeing the development of Synchro and VISSIM models, summarizing model results and developing 3D visualizations for use in the public involvement process, and conducting crash and safety analysis.			
07/07 – 04/15	Revive 285 Top End, Georgia DOT, Metro Atlanta, GA. Lead Traffic Engineer. Responsible for modeling and analyzing approximately 98 centerline miles and 100 intersections across the northern portion of I-285 in Atlanta. Model development tasks included calculating subarea demand from the regional transportation model, interpolating 15-minute travel demand from the peak period model, weighing impacts due to proposed transit changes, working with designers to create model geometry, model calibration, model output analysis, alternatives comparison, and simulation development.			
05/19 – 10/21	SR 6 Corridor Study, Paulding County DOT, Hiram, GA. Project Manager. Lead the traffic analysis for a long-range corridor study for a major US highway in Metro Atlanta. Scope of work included operational analysis and conducting Road Safety Assessments by leading a multi-disciplinary safety walkthrough of the corridor. Safety walkthrough included a team review of the historic crash data and in-field review of high crash intersections to identify potential causes and quantifying the effectivness of potential mitigations.			
3/18 – Ongoing	Safety On-Call, Districts 3 and 6, Georgia DOT, Western Georgia. <i>Project Coordinator</i> . Assisted the project team in coordinating <i>safety improvements</i> with adjacent projects and participated as needed in <i>Road Safety Assessments</i> . Overall project scope included the <i>identification, prioritization, and development of projects at high crash intersections</i> and corridors in Districts 3 and 6 for Georgia GDOT.			

Firm employed	d by ARCADIS	 S				
	Aguirre, PhD, PE, RSP	-	Years of relevant experience with this employer	2.3		
	portation Engineer		Years of relevant experience with other employer(s)	1		
	ars / Specialization		PhD / 2018 / Engineering Science, LSU			
3 () ,	· '		MS / 2015 / Construction Management, LSU;			
			BS / 2013 / Civil Engineering, LSU			
Active registra	tion number / state / e	expiration date	Professional Engineer – NC / PE.052016 / 2022; RSP #6	336 / USA / Exp. 8/2024		
Year registered	d 2021	Discipline	Civil Engineering			
Contract role(s	s) / brief description of	responsibilities.	Stage O Safety Studies, Safety Effectiveness Evaluation			
Experience dat	tes Experience and q	ualifications relev	/ant to the proposed contract			
	Dr. Aguirre is a Pro	fessional Engineer	in the state of North Carolina and a Road Safety Professional.	Over the course of his academic career,		
			Research Assistant and participated in multiple field-related o			
100			partment of Transportation and Development (LADOTD) perta			
			ycle improvements, permanent signing design, signal design, a			
			ay Safety Manual, MUTCD, and AASHTO "Green Book". Dr. Ag			
			ams including <u>IHSDM</u> , SYNCHRO, GuidSIGN, HCS and MicroSta [.] and Report Training.	tion software. Dr. Aguirre has completed		
09/19 – 06/21			afety Action Plan and Road Safety Assessments, LADOTD, East	: Baton Rouge Parish I A Traffic		
03/13 00/21		•	nt of existing and future safety deficiencies related to pedestria			
			st Baton Rouge Parish. Assisted with the development of <i>scree</i>			
	locations with a his	story of pedestrian	and/or bicycle crashes. Assisted in the development of Road S	Safety Assessments (RSAs) at 10 priority		
		locations to identify and evaluate safety deficiencies and develop safety countermeasures to improve safety for pedestrians and bicyclists.				
09/19 – Ongoin	-	Interchange Feasibility – I-49 (Ricohoc to Berwick) Supplemental Environmental Impact Assessment, LADOTD, St. Mary Parish, LA. Traffic				
		· -	ring planning and evaluation of different interchange alternati	ves and their geometric design, socio-		
10/19 – 07/21			and environmental impacts.	-ff:- [
10/19 - 07/21			Ider Running Feasibility Study, LADOTD, Orleans Parish, LA. Tra ementing HSR lanes along I-10 to alleviate existing bottlenecks			
		•	ppment of <i>conceptual drawings</i> and <i>typical sections</i> for propos			
	alternatives on I-10			sea Hara shearact Harring (Herry		
08/19 – 02/20			dor Improvements (Airline Hwy) Feasibility Study, LADOTD, Eas	st Baton Rouge Parish, LA. Traffic		
	Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identifications.					
		•	rational and safety benefits. Evaluated the need for pedestriar	-		
		-	d use. Assisted in conducting <i>traffic analysis</i> and the developm	nent of <i>benefit-cost analysis</i> to compare		
11/22	the effectiveness of					
11/20 – Ongoin		_	e Parish, LA. Traffic Engineer. Assisting in traffic engineering to			
			Modification Reports, and Transportation Management Plans	_		
			rchanges along this segment. Assisted in the development of	existing condition safety analysis		
			alysis, collision diagrams, and crash report documentation.	existing condition safety analysis		

Firm amplayed by	, digital					
Firm employed by	endineerii	na DTD DCD	V C I I I I I I I I I			
	LeBreton, PE, PTOE,	, PTP, RSP	Years of relevant experience with this employer	14		
	sident, Principal		Years of relevant experience with other employer(s)	0		
Degree(s) / Years	- 1		BS / 2007 / Civil Engineering			
Active registration	n number / state / ex	xpiration date	PE.0037176 / LA / Exp. 09/30/22; PTOE #3333/ USA / Exp			
			PTP #661 / USA / Exp. 3/2023; RSP #314 / USA / 07/2022			
Year registered	2012	Discipline	Civil Engineering			
` ,	brief description of	•	Road Safety Assessments, Low-Cost Safety Design, Ped/B	ike/Complete Streets		
Experience dates			ant to the proposed contract			
			periences with <u>safety studies and design</u> , <u>traffic analysis, tra</u>			
			phase services. David has performed studies, design, and/c			
(35			ects through the Safe Routes to School (SRTS), Safe Routes			
			throughout the state, in both rural and urban areas. David			
			oundabout Analysis Update Workshop; RPC/LDOTD Designi			
			: with AASHTO's Guide for the Development of Bicycle Facil	ities, MUTCD, ADA and LADOTD		
	requirements. Mr					
11/17 – Ongoing	New Orleans DPW SRTS Sidewalk Project, LADOTD, New Orleans, LA. Project Manager for this pedestrian enhancement,					
			narking, and road safety project. Responsible for the over			
	·	~	contract. The scope of this projectconsists of the developm			
			rd specifications for the installation of 5' concrete sidewalk	•		
	•		Hybrid Beacon, solar powered school zone flashing beacon,	·		
	'		rian countdown signal heads withaccessible pedestrian pus			
04/12 – 04/19			ovements, LADOTD, Gretna, LA. Engineer of Record/Project			
	enhancement, sidewalk, and road safety improvement project. He was responsible for overall project management, QA/QC,					
		_	elopment of a <i>feasibility study and engineering plans</i> and			
			ncrete sidewalks and crosswalks to allow for continuous pe	edestrian access to a number of		
,	schools within the	,				
06/16 – 10/18		•	ve Mini Roundabout, LADOTD, Thibodaux, LA. Engineer of F			
	·	•	fety improvement project. The feasibility study, design o	•		
			valks, and signage and striping, etc.), geometric layout, qua			
	· ·	•	tions (TS), development of the QA/QCand constructability	•		
	'	under David's direct supervision. The scope of this project involved the installation of a new mini-roundabout at the				
	intersection of Au	dubon Avenue a	nd Ardoyne Drive.			

01/20 06/20	LA 20. W Judge Daves Duive Vehicular Dedoctries and Dievele Cefety Enhancements Stage O Feesibility Study St. Demond
01/20 – 06/20	LA 39: W Judge Perez Drive Vehicular, Pedestrian, and Bicycle Safety Enhancements, Stage 0 Feasibility Study, St. Bernard
	Parish, LA. Senior Project Manager and QA/QC Manager on feasibility study for NORPC to identify alternatives along the
	W Judge PerezDrive (LA 39) corridor between Rowley Boulevard and Pakenham Drive to <i>improve safety</i> 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.
09/17 – 12/21	LADOTD H.013082: 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 sharedlane 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 SP No. 737-29-0107, 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 inThibodeaux. 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 SP No. 700-26-0295, Kenner, LA. Project Engineer for the design of an exclusive
	right turn lane onto I-10 westbound by widening Loyola Drive. The projectinvolved 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 Contract No. 4400003368, Districts 03, 07 and 08. Project Manager
	providing traffic and transportation analyses at proposed sites throughout the State of Louisiana for a 3-yearperiod. 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 b	y ARCADIS	5			
Name Justin Maderia, PE, PTOE, PTP				Years of relevant experience with this employer	15
Title Traffic a	le Traffic and Safety Engineer			Years of relevant experience with other employer(s)	0
Degree(s) / Years	/ Specialization		MS /	/ 2005 / Civil Engineering; BS / 2004 / Civil Engineering	
Active registratio	n number / state / e	expiration date	PE.0	038492 / LA / 03/31/2022; PTOE #3455 / USA / 07/01/2024	1; PTP #604 / 07/01/2023
Year registered	2013	Discipline	Civil	Engineer	
Contract role(s) /	brief description of	responsibilities	Stag	e O Safety Studies, Safety Effectiveness Evaluation	
Experience dates	Experience and q	ualifications relev	ant to	o the proposed contract	
04/21 Oversing	studies, feasibility sexperience with sa application of High the project engined traffic control plan AutoCAD, MicroStatas completed LAD	studies, traffic flow, fety studies include way Safety Manual er responsible for th design, roadway ge ation, Geopak, Auto DOTD Traffic Engine	dema s <u>cras</u> (HSM ne des comet Turn, ering	engineering includes a range of services, such as project engineering modeling, spot speed studies, micro-simulation modeling, and the review and analysis, development of safety improvements and methodologies to evaluate the effectiveness of safety improved sign of highway projects. Specific design experience includes maintry, horizontal and vertical alignment design. His software program SignCAD, GIS, TNM, CORSIM, VISSIM, HCS and all Microsoft Office Process and Report Training.	nd traffic noise modeling. His locuntermeasures, and ments. He has also served as ntenance of traffic design, m experience includes IHSDM, se Applications. Mr. Maderia
04/21-Ongoing	Louisiana Strategic Highway Safety Plan Update, LADOTD, Statewide, LA. Safety Engineer. 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 1 Stage 0 Feasibility Study, LADOTD, Rapides Parish, Louisiana. Safety 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.				
03/16 – 07/18	I-12 Hard Shoulder based on <i>crash ana</i>	Running Feasibility	Study <i>lictive</i>	y, LADOTD, East Baton Rouge and Livingston Parishes, LA. Safety methods and the ISATe tool for Freeways. Estimated costs and so dispeed data and volume data and developed figures for various	rafety benefits to evaluate the
02/15 – 08/17	Responsible for the VISSIM model was primary objective of	e operational and <i>sa</i> developed and use	nfety a d to a centify	ruway, Johnston St, & Louisiana Ave., LADOTD, Lafayette Parish, analysis of project alternatives including existing, no-build, and bunalyze the various scenarios. Build alternatives included CFI, RCU reasonable alternatives that address the purpose and need and confalternatives.	uild conditions. A calibrated IT, and MUT concepts. The
09/17-Ongoing	order basis. Each sa counts, forecasting test counter-measu	afety study includes straffic volumes, <i>re</i> u <i>res</i> , schematic diag	a site viewir rams,	tatewide, Ohio. Lead Engineer. Responsible for completing site specially site is a visit, existing conditions inventory, preparing existing conditions on a year crash history, completing ODOT's CAM Tool, capacity are, cost estimating, completing ODOT's ECAT, writing a safety study the project to ODOT's Office of Program Management for the characteristics.	s plans, collecting traffic nalysis, <i>CMF Clearinghouse to</i> In technical report, applying for

Firm employed b	y ARCADIS				
, ,	Hollier, PE, PTOE		Years of relevant experience with this employer	1	
	raffic Engineer		Years of relevant experience with other employer(s)	16	
Degree(s) / Years			BS / 2004 / Civil Engineering, Louisiana Tech University		
	n number / state / ex	xpiration date	PE.034304 / LA / Exp. 03/2023; PTOE #3928 / USA / Ex		
Year registered	2009	Discipline	Civil Engineering		
	brief description of	responsibilities.	Traffic Engineering		
Experience dates	Experience and qu	ualifications releva	ant to the proposed contract		
05/14 - 08/20	engineering, signadesign, and construction phases to the designation projects. This expensive provide expertise LADOTD Traffic En	I timing and design ruction managem Ign and construction Perience allows hin In achieving successing in achieving Process	th of experience in the field of transportation engineering, roadway design, complete street improvement projectent and inspection. Working on a wide variety of projection phases, has given him the experience to help identify to understand stakeholders ranging from local public accessful solutions for a variety of projects. Mr. Hollier meets and Report Training.	ects, roadway safety analysis and ts from the planning and conceptual by the needs and requirements for agencies to state DOTs and helps ots MPR #2 and has completed	
03/14 00/20	Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA. <i>Traffic/Civil Engineer</i> . Responsible for the design of traffic control and construction sequencing, <i>pavement marking layout</i> , quantity analysis, <i>cost estimates</i> , 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 <i>interchange traffic sign</i> and <i>traffic signal timings and design</i> . Identified all necessary <i>design waivers and design exceptions</i> required for LADOTD approval. Provided <i>geometric layout design</i> , <i>typical section design</i> and review, and joint layout design for several interchange ramps and underpasses.				
09/12 – 02/16	Stage 0 Feasibility Study and Stage 1 EA for Replacing Belle Chasse Tunnel and Bridge, LADOTD, Plaquemines Parish, LA. <i>Traffic Engineer</i> . Responsible for the <i>feasibility study</i> and <i>traffic analysis</i> 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 <i>Line and Grade Study</i> along with the review of the construction sequencing and traffic maintenance of the constructability review.				
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. <i>Project Manager</i> . Responsible for traffic engineering tasks including development of <i>permanent signing plans, traffic signal plans, interchange modification reports, and transportation managemnet plans</i> for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive <i>historical crash and safety analysis</i> 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 <i>minimize delay</i> .				

06/13-04/14	US 190 Stage 0 Feasibility Study, LADOTD, St. Tammany, LA. <i>Traffic Engineer</i> . Responsible for <i>roundabout geometric design</i> and
	pedestrian and bike path design along the US 190 corridor in the City of Slidell and St. Tammany Parish to improve safety for
	motorized and non-motorized roadway users.
11/17 – 07/20	LA 466 (5 th 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 <i>Traffic Engineering Process and Report Guidelines</i> . The project also included a stand alone
	pedestrian study along the corridor at designated intersection and the design of accessible pedestrian signals at signalized
	intersections.
12/17 – 11/19	Causeway Boulevard Widening Traffic Study, Jefferson Parish, LA. Project Manager / Traffic Engineer. Responsible for the traffic
	and safety study for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in
	Jefferson Parish, LA. Tasks included <i>data collection</i> , traffic volume redistribution, left-turn placement and turn bay storage
	length, and existing traffic analysis and future traffic analysis of a preferred alternative.
10/18 - 01/19	LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. Traffic Engineer. Responsible for the
	development of three 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 <i>traffic signal retiming</i> , J-turns, and roundabouts to
	provide better <i>access management</i> 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,	Stumberg Lane Extension, City of Baton Rouge Green Light Plan, East Baton Rouge Parish, LA. Traffic Engineer. Responsible for
07/13 – 01/14	the <i>design of new traffic signals</i> at US 61 (Airline Highway) and LA 73 (Jefferson Highway) for the extension of Stumberg Lane
	in Baton Rouge, LA. Also, responsible for the <i>design and layout</i> 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 <i>road design and geometrics</i> for the widening of LA 23 in Jefferson and Plaquemines Parishes between
	Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed <i>traffic analysis</i> for the <i>traffic signal timing</i> and required turn
	bay lengths at intersections. Developed <i>traffic signing plans</i> , <i>pavement marking layouts</i> and temporary traffic control plans.
10/10 – 7/15	Barriere Road Feasibility Study/Traffic Study, US Department of Defense, Plaquemines Parish, LA. Civil/Traffic Engineer.
	Responsible for the geometric layout and design of the <i>realignment alternatives</i> of Barriere Rd. between LA 23 to the US Naval
	Air Station. Developed and reviewed traffic analysis for arrival and departure patterns for the South US Naval Air Station
	entrance gates.

Firm employed by	ARCADIS			
Name Thomas I	Montz, PE, PTOE, PTP	Years of relevant experience with this employer	9	
Title Senior Tr	ansportation Engineer	Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization		MS / 2011 / Civil Engineering, Louisiana State University	,	
		BS / 2009 / Civil Engineering, Louisiana State University		
Active registration	n number / state / expiration dat	PE.0039128 / LA / Exp. 09/2022; PTOE 4093 / USA / 07/	2022; PTP 599 / USA / 03/2023;	
Year registered	2014 Discipline	3 3		
` '	brief description of responsibilit			
Experience dates		relevant to the proposed contract		
	modeling, safety, and design. including <u>Stage 0 feasibility stu</u>	er and Senior Transportation Engineer specializing in transport He has over 12 years of experience leading a multitude of plan udies, safety studies, NEPA studies, traffic signal timing and destion. He specializes in traffic analysis and operations including strosimulation analysis. Mr. Montz meets MPR #4 and has comp	ning and engineering projects sign, and transportation signal timing, signal design, ITS	
12/13 – 06/15	LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA. <i>Traffic Engineer</i> . Responsible for traffic and safety analysis as part of the <i>Stage 0 feasibility study</i> to develop improvement alternatives with the goal of enhancing mobility and safety on LA 3235. Main tasks included <i>traffic data collection</i> , <i>signal warrant studies</i> , <i>traffic analysis</i> , <i>safety analysis</i> , development of <i>conceptual layouts</i> , and <i>public outreach</i> . Intersections found to warrant signalization were also modeled in unconventional designs including U-turns, J-turns, and RCUTs. Purpose of the project was to address historical safety issues along the corridor resulting from high speeds and conflict points. Assisted with the completion of <i>Stage 0 documentation</i> including <i>Preliminary Scope and Budget and Environmental Checklists</i> .			
04/19 – 12/19	US 90 Traffic Signal Timing Upgrades/LADOTD, Lafayette Parish, LA. <i>Technical Lead</i> of project tasks involving traffic data collection and analysis, signal inventory, peak period determination and observations, <i>warrant analysis</i> , travel time runs, <i>traffic signal timing analysis</i> using Synchro 10 software, and development of updated TSI forms following latest LADOTD standards			
02/15 – 08/17	US 71 Corridor - Phase II Stage 0 Feasibility Study, LADOTD; Rapides Parish, LA. <i>Project Manager</i> . Responsible for the preparation of a corridor <i>feasibility study</i> for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Main tasks included <i>traffic data collection</i> , <i>signal warrant studies</i> , <i>traffic analysis</i> , <i>safety data analysis</i> , alternative development, and public / stakeholder involvement. Completed <i>Stage 0 documentation</i> including <i>Preliminary Scope and Budget and Environmental Checklists</i> .			
04/16 - 09/18	data collection, volume devel improvement alternatives at Assisted with the developmen	O Safety Feasibility Study, LADOTD, Orleans Parish, LA. Traffic opment, traffic analysis, and alternative screening. Purpose 20 high-priority intersections in New Orleans with a history of t of safety countermeasures for short-term and long-term alternation including Preliminary Scope and Budget and Enviror	of the project was to identify <i>safety</i> pedestrian and bicycle safety issues. rnatives. Assisted with the	

04/16 - 10/19	I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA. <i>Traffic Engineer.</i> Conducted <i>traffic analysis</i> using a calibrated microsimulation model to evaluate the operational performance of HSR and HOV lane alternatives along I-12 between the I-10/I-12 split and Walker, LA. Developed a range of alternatives and made recommendations based on the alternatives that produced the greatest operational benefits and relieved major bottlenecks. Presented results to LADOTD project team and administration to inform the decision-making process and subsequent project stages.
02/18 – 06/21	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.
12/13 – 05/15	Joe Sevario / Roddy Road Stage 0 Safety Feasibility Study, LADOTD, Ascension Parish, LA. <i>Traffic Engineer</i> . Evaluation of roundabouts at 10 stop-controlled intersections along Joe Sevario / Roddy Road, from US 61 to LA 42, a length of approximately 7.2 miles. Main tasks included <i>traffic data collection</i> , <i>traffic signal warrants</i> , <i>crash analysis</i> , <i>capacity analysis</i> , <i>safety analysis</i> , review of existing pipelines and other municipal <i>utilities</i> , <i>alternatives analysis</i> , <i>design development</i> , <i>and cost estimates</i> .
11/12 – 4/13	LA 594 (Millhaven Rd.) Stage 0 Feasibility Study and Preliminary Design, I-20 Economic Development Corporation, Ouachita Parish, LA. <i>Traffic Engineer</i> . Responsible for <i>traffic data collection and traffic and safety analysis tasks</i> . The project proposed roadway improvements to maintain operations and safety along Millhaven Road while accommodating projected increases in traffic demand and commercial development.
04/16 – Ongoing	Pete's Highway Interchange Alternatives and Environmental Assessment, LADOTD, Denham Springs, LA. <i>Traffic Engineer</i> . Responsible for assisting with <i>traffic signal timing analysis tasks</i> 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.
04/13 – Ongoing	US 11 Environmental Assessment, LADOTD, St. Tammany Parish, LA. <i>Traffic Engineer</i> . Responsible for <i>crash analysis</i> , operating speed tabulations, <i>intersection and corridor analysis</i> , <i>alternative development</i> , and noise modeling for the proposed widening of US 11 between US 190 (Gause Blvd) and I-12 in Slidell, LA. The proposed improvements include replacing a bridge crossing the Norfolk Southern Railroad. This project includes analyzing several <i>innovative alternatives</i> for the proposed corridor, including "superstreets" and J-turn concepts.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA / H.001400. Traffic Engineer. Responsible for construction phasing modeling and evaluation to determine the impacts of various construction phasing scenarios and mitigation that will be required to minimize travel delays during construction. Construction phasing scenarios are being modeled using a calibrated mesoscopic model developed by Arcadis, which can estimate the effects of construction activities on the broader roadway network. Model results are being used to inform the Transportation Management Plan for the project.

Firm employed by	/ BUCHART HORN				
	Sundke M., PE, PTOE	Years of relevant experience with this employer	15		
	Civil Engineer	Years of relevant experience with other employer(s)	<1		
Degree(s) / Years		MS / 2005 / Civil Engineering, University of Kentucky	12		
208.00(3) / 100.07	, openimention	BS / 2003 / Civil Engineering, Osmania University, India	a de la companya de		
Active registration	n number / state / expiration date	PE.0039678 / LA / Exp. 09/2023; PTOE 3146 Exp. 03/20			
Year registered	2011 Discipline	Civil Engineering			
	brief description of responsibilities.	Traffic Engineering			
Experience dates	Experience and qualifications relev				
			eering and highway design. He		
	Mr. Sundke has more than 15 years of experience in <u>transportation planning</u> , <u>traffic engineering</u> and highway design. He performs traffic engineering services for <u>Stage 0 feasibility studies</u> , traffic studies, <u>traffic signal design</u> , <u>signal timing</u> , traffic modeling and simulation, safety analysis, roadway planning and design and maintenance of traffic control plans for Buchart Horn's southern region offices. Mr. Sundke meets MPR No. 4 and has completed LADOTD Traffic Engineering Process and Report Training.				
03/16 – 10/16	Stage O Safety Feasibility Study for LA 182 Sidewalk and Handicap Ramp Improvements, LADOTD, New Iberia, LA. <i>Project Engineer</i> . BH conducted a <i>Stage O Feasibility and Planning Study</i> 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.				
12/08 - 02/09	LA 28 Stage 0 Safety Feasibility Study and Environmental Inventory, LADOTD, Rapides Parish, LA. Lead Designer. BH performed a Stage 0 Feasibility and Planning Study and Environmental Inventory to widen approximately 6.5 miles of LA 28 to four lanes from the end of the existing four-lane section at LA 1025 (Libuse) to LA 1207 (Holloway). Responsible for traffic analysis, signal timing optimization, and preparation of traffic report.				
04/10 – 06/12	US 72 Traffic Signalization Study and Optimization, MS Department of Transportation, Corinth, MS. <i>Project Manager</i> . BH provided <i>development and implementation of coordinated traffic signal timing plans</i> for eight signals in Corinth, MS.				
01/16 - 03/16	Impact and Warrant Study for Fieldstone Farms Development, Precision Engineering Corporation, Oxford, MS. Project Manager. BH analyzed the traffic impacts to the existing roadway and intersections because of a development. Conducted Signal Warrant Analysis to determine if a traffic signal was warranted was included. Responsible for preparing traffic impact study report.				
05/13 - 03/15	Market Boulevard Traffic Signal, Town of Collierville, TN. Field surveys, traffic counts, signal design and timing plans, and construction document preparation to install a coordinated, eight-phase traffic signal at the intersection of Civic Center Drive and Market Boulevard.				
06/13 - 05/14	Traffic Calming / Safety Feasibility Study, City of Memphis, TN. Project Manager. BH conducted traffic studies to determine the potential effectiveness of installing traffic calming devices and speed humps at 71 sites throughout Memphis. Typical activities included speed and volume studies, data collection and traffic studies, and device placement and petition packages. Responsible for analyzing eligibility of traffic calming devices and subsequently designed devices for eligible streets.				
08/07 – 12/08	LA 59/I-12 Interchange Improvement final plans, geotechnical services, to intersection of LA 59 at I-12 in an experience of the services of th	ents, St. Tammany Parish, Mandeville, LA. Project Engineer raffic analysis, signal design, and environmental service expedited fashion to quality as a shovel-ready project for hal design, signal timing optimization, signal plan prepara	er. BH provided preliminary plans, es for improvements to the the ARRA Program. Transportation		

PERSONNEL RESUMES

ROADWAY AND LOW-COST SAFETY DESIGN ENGINEERS

Firm employed by	digital engineerin			
Name Alan Krou		ıq	Years of relevant experience with this employer	1
Title Senior Project Manager			Years of relevant experience with other employer(s)	43
Degree(s) / Years /	-		BS / 1977 / Civil Engineering	
0 () .	number / state / ex	xpiration date	PE.0019391 / LA / Exp. 09/2023	
Year registered	1981	Discipline	Civil Engineering	
	orief description of	'	Low-Cost Safety Design	
Experience dates	Experience and qu	ualifications releva	ant to the proposed contract	
11/18 - 03/20	Mr. Krouse is a Senior Project Manager responsible for management of complex infrastructure projects, and QAQC. His 44 years of experience spans a career working for both the public sector and private consulting companies. As a Coordinating Squad Leader in Road Design for the Louisiana Department of Transportation and Development (LADOTD), Alan managed projects in excess of \$100 million that required the coordination of 20 design consultants in major metropolitan areas. Following his tenure at LADOTD, Alan entered the professional engineering consultant industry where he continued designing and managing transportation projects for LADOTD and other public agencies. Alan's experience includes Stage 0 Feasibility Studies, Safety Studies, design of safety improvements, Environmental Inventories, along with major highway improvement design. Alan currently serves on the Louisiana Complete Streets Advisory Council. LADOTD H.013322.1: LA 3040 Corridor Improvements Study, Houma, LA. Project Manager for this road safety project. Responsible for contract negotiations, QA/QC and report documents which include traffic, environmental and alternate development. Study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma in order to evaluate reasonable alternatives to address any deficiencies discovered and develop low-cost safety improvements.			
03/16 – 09/16	LADOTD H.012295: Feasibility and Planning Study for LA 182 Sidewalk and Handicap Ramp Improvements, New Iberia, LA. Project Manager for this pedestrian enhancement and sidewalk project. Responsible for coordination of pedestrian counts, field observations, preparation of Stage 0 Study including development of alternates necessary to evaluate the feasibility of the rehabilitation and construction of approximately 1.8 miles of continuous sidewalks and handicap curb ramps.			
06/15 – 04/19	LADOTD H.0112243.1: I-49 at US 190 and LA 31 Feasibility and Planning Study and Tier Analysis, Opelousas, LA. <i>Project Manager</i> for this <i>road safety project</i> . Responsible for scope development, contract negotiations and QA/QC for a feasibility and planning study to evaluate alternatives to improve traffic operations and safety along several abnormal sections of the project at the I-49 interchanges with US 190 and LA 31. High level alternatives were evaluated, incorporating considerations for required ROW, environmental and social impact, and project cost.			
06/14 – 12/19	Rayville, LA. <i>Project</i> obligations, quality reviews for the de	ct Manager for thing assurance of despension of a new six-	dabout Design, Retainer Contract for Highway Safety, Sigma Costs signing and pavement marking and road safety project. Respision submittals, construction phasing, quantity calculations, costleg, multi-lane roundabout at the intersection of US 425 and Gexisting frontage road, truck access turnout and stormwater sy	ponsible for contractual st estimates, and geometric rimshaw Street and Christian

06/13 – 07/14	US 61 Improvements Stage 0 Study (LA 50 to Jefferson Parish Line), New Orleans Regional Planning Commission, St. Charles Parish, LA. <i>Project Manager</i> for this <i>road safety project</i> . Responsible for reviewing line and grade and environmental and budgetary checklists, as well as quality assurance of Stage 0 document to evaluate two conceptual alternatives along the corridor: capacity improvements to the existing intersection such as widening, turning lanes, and traffic signal timing; and safety improvements such as access management and complete streets, medians divided with J-turns, and special consideration ofheavy truck movements due to land use. Alan also assisted in drainage, geometric, typical section design, and calculated project quantities.			
12/13 – 12/14	Highland-Burbank Connector Design-Study, City of Baton Rouge/Parish of East Baton Rouge, LA. <i>Project Manager</i> for this road design project that included <i>sidewalk and road safety elements</i> . Responsible for contract and feenegotiations, preparing all correspondence to client, conducting project meetings and monitoring the budget and schedule of this design study, including the preparation of preliminary (30%) design plans as necessary to identify two alternatives for a new three-lane curb and gutter roadway with sidewalks on both sides, connecting Highland Road and Burbank Drive, including a new bridge crossing at Bayou Fountain.			
04/19 – 05/20	LADOTD H.013817.1 – LA 117 Feasibility and Planning Study and Environmental Inventory, Leesville, LA. <i>Project Manager</i> responsible for a <i>Stage O feasibility study</i> for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor.			
01/19 – 05/20	LADOTD H.012311: LA 429 Connector Stage 0 Feasibility Study, Ascension Parish, LA. <i>Project Manager</i> for the preparation of a Stage 0 feasibility study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61 Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of <i>alternative development</i> for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report.			
05/13 – 03/16	LADOTD H.005720 – Florida Avenue Expressway Stage 0 Feasibility Study and Environmental Inventory, New Orleans, LA. Project Manager responsible for reviewing design and reports for the proposed changes to the new interchange, roadways, and bridge over the intercoastal waterway including a new bridge across the Inner Harbor Navigational Canal and the upgrade and extension of Florida Avenue from Elysian Fields Avenue to Paris Road.			
05/20 – 05/21	Port of Gulfport Access Project Environmental Assessment, Gulfport, MS. Project Manager responsible for coordination of the project team performing the EA which consists of a new 160-foot bridgeover US Highway 90, pavement rehabilitation on 30th Avenue from US 90 north for approximately 4600 feet, upgraded signalization, access management improvements, and implementation of Intelligent Transportation Systems. His responsibilities include facilitating project meetings and coordination of information with the design team. Alan is also responsible for managing the tasks performed by the project team which includes surveying, conceptual design, bridge aesthetics, <i>traffic engineering analysis</i> , noise and vibration study, air quality and emissions study, right of way impacts, attending public meetings and preparation of the <i>NEPA report</i> .			

E. ADCADIC					
Firm employed by		V	1		
	odriguez, PE	Years of relevant experience with this employer	1		
Title Senior Civil Engineer		Years of relevant experience with other employer(s)	24		
Degree(s) / Years / Specialization		BS / 1992 / Civil Engineering, University of New Orlean	15		
Active registration number / state / expiration date Year registered 2003 Discipline		PE.0030492 / LA / Exp. 03/2023			
Year registered		Civil Engineering			
Experience dates	brief description of responsibilities.	Low-Cost Safety Design - Roadway Design			
Experience dates					
	roadway design, bridge design, project management, hydraulic analysis, utility coordination, construction supervision,				
	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, Marathon Petroleum Co., Yuhuang Chemicals, and others. 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 #3.				
05/12 – 12/15	Earhart Boulevard Causeway Interchange, LADOTD, New Orleans, LA. Project Designer. Responsible for the geometric design				
	and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard-Causeway Interchange				
	purpose was to assist in traffic congestion relief for the east-west flow in traffic for the New Orleans Metro Area. It consisted of				
	the development of roadway and bridge ramps for the creation of an elevated signal-controlled interchange. The estimated				
	construction cost for this project was approximately fifty-nine million dollars. Responsible for the <i>development of all horizontal</i>				
	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		ADOTD, Metairie, LA. Project Designer. Responsible for re	oadway 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. Project Designer. Responsible for the geometric design,				
	plan preparation and wetland delineation of Peters Road Phases I, II and III. The projects consisted of a new roadway, elevated				
	crossing over the Intracoastal Waterway, approach roadways in Jefferson and Plaquemines Parishes to tie Peters Road to				
	Louisiana 23 near Barrier Road. The projects were prepared in coordination with Plaquemines Parish, DOTD, and the U.S. Army				
	Corps of Engineers.				
01/08 – 05/08	, ,	ush Corridor Study Phase III, LADOTD, St. Tammany Parish			
	Responsible for <i>evaluating environmental issues and developing design alternatives</i> in accordance with the <i>National</i>				
	Environmental Policy Act (NEPA)	for transportation improvements.			

Dahn James Audubon Bridge Approach (Design-Build (DBI), LADOTD, New Roads, LA. Project Designer. Responsible for the geometric horizontal and vertical alignment for five approach bridges to the John James Audubon Cable Stay Bridge. The longest cable-stayed bridge in the Western Hemisphere consisting of 1,583" main span. Jose was also in charge of the quality control for all bridge approaches and the design of all precast concrete girders for the project. 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, 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. New Orleans Submerged Roadway Program Management, LADOTD / New Orleans Regional Planning Commission, New Orleans, LA. Project Designer and Quality Control Reviewer. For this multi-million dollar program management team for the DOTD and the Federal Highway Administration (FHWA), helped develop design guidelines and processes for the standardization of engineering work for the repair of damaged roadways by Hurricane Katrina in the City of New Orleans and other parishes. He was responsible for conducting quality control reviews on roadway plans prepared by other engineering firms for compliance with DOTD and FHWA design standards. Magnola 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, City of New Orleans, St. Charles Parish, LA. Quality Control (QC). QC review and plan preparation for the Wideling and the special project and the construction of new at-grade and elevated ramps to provide better accesses, improve sofety and ease congestion at this heavily traveled interchange. Responsible for evalu		
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Causeway Boulevard Interchange Improvements Phases I and II, LADOTD, Metairie, LA. Project Designer. This project which consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at-grade and elevated ramps to provide better accesses, improve safety and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders and the roadway plan preparation for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations. NC73 Highway Widening, North Carolina DOT, Mecklenburg County, North Carolina. Project Engineer. Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 Highway, was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges for the Temporary Traffic Management Plan's preparation due to the high traffic volumes on NC 73, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To mitigate traffic disruption and enhance roadway safety, assisted in preparing the Transportation Operation Plans and sequence of construction for the project. All design work was performed following NCDOT and the latest MUTCD standards. Eastern Federal Lands Highway Division (EFLHD), Puerto Rico. Assessment Roadway Lead. Responsible for the review, report preparation, and coordination for the repairs of over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project stayed within the client's guidance and strict schedules. Texas High-Speed Rail, Texas Central Railway, Dallas to Houston, Texas. Project Designer. Assisted with establishing flood elevations f	12/15 – 01/16	Magnolia Ridge Levee Project, City of New Orleans, St. Charles Parish, LA. Quality Control (QC). QC review and plan preparation
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elevated ramps to provide better accesses, <i>improve safety and ease congestion at this heavily traveled interchange</i> . Responsible for evaluating existing girders, the <i>design of new precast concrete girders</i> and the <i>roadway plan preparation</i> for this project. Also, responsible for evaluating and design of new sewer and water lines for the project as well as coordinating the removal and replacement of all utilities affected by the new roadways and/or structure foundations. 1/20 – 5/20 NC73 Highway Widening, North Carolina DOT, Mecklenburg County, North Carolina. <i>Project Engineer</i> . Responsible for the Temporary Traffic Control Plan preparation for the widening of NC 73. A principal arterial roadway, NC 73 Highway, was widened from a two-lane undivided roadway into a four-lane divided highway with a 30-foot wide median. The project presented many challenges for the Temporary Traffic Management Plan's preparation due to the high traffic volumes on NC 73, time restrictions for lane closures, and all NASCAR events at Charlotte Motor Speedway for the duration of the project. To <i>mitigate traffic disruption and enhance roadway safety</i> , assisted in preparing the Transportation Operation Plans and sequence of construction for the project. <i>All design work was performed following NCDOT and the latest MUTCD standards</i> . 3/2019 – 5/20 Eastern Federal Lands Highway Division (EFLHD), Puerto Rico. <i>Assessment Roadway Lead</i> . Responsible for the review, report preparation, and coordination for the repairs of over 70 roadway sites damaged by Hurricane Maria. Provided technical assistance to local engineering firms to ensure the project stayed within the client's guidance and strict schedules. Texas High-Speed Rail, Texas Central Railway, Dallas to Houston, Texas. <i>Project Designer</i> . Assisted with establishing flood elevations for the alignment of over 240 miles of rail tracts. Also responsible for the realignment of at-grade roadways impacted	06/04 - 01/11	Causeway Boulevard Interchange Improvements Phases I and II, LADOTD, Metairie, LA. Project Designer. This project which
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	04/18 – 9/20	
by the High-Speed rail.		
		by the High-Speed rail.

Firm employed b	y ARCADIS		
Name David Fu	ılks, PE	Years of relevant experience with this employer	14
Title Roadwa	y Design Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years	/ Specialization	MS / 2019 / Engineering Management, The George Wa BS / 1997 / Civil Engineering, Portland State University	shington University
Active registratio	n number / state / expiration da	te PE.030151 / LA / Exp. 09/30/2022	
Year registered	2002 Discipline	Civil Engineering	
Contract role(s) /	brief description of responsibilit	cies. Low-Cost Safety Design - Roadway Design	
Experience dates	Experience and qualifications	relevant to the proposed contract	
	protection systems, and airpo highways, streets, sidewalks, impact analysis. His responsib	ears of experience in the design of roadways and pedestrian fairts. His experience encompasses analysis and design of geome restrictive intersections, roundabouts, and interchanges; site hillities have included preparing engineering designs, reports, ples and cost estimates and providing construction administrations.	etric and pavement design of nydrology and hydraulics; and traffic lans, and specifications preparing
05/14 – 05/15		ndabouts Stage O Safety Feasibility Study, LADOTD, Ascension dway design and cost estimates for the replacement of ten explacement of ten explanations.	
07/15 – 06/17	, ,	OOB at Jefferson Ave Roundabout Design, LADOTD, St. Tammargn, preliminary plans preparation, and cost estimate for replace elliptical roundabout.	, , ,
12/13 – 06/15	LA 3235 Stage 0 Safety Feasib geometric layout of safety im	ility Study, LADOTD, Lafourche Parish, LA. Lead Roadway Geor provements including access management, restrictive interse estimates for proposed improvements to assess feasibility of	ections, and added turn lanes.
11/12 – 04/13	LA 594 Millhaven Road Feasib Roadway Designer. Roadway roundabouts were evaluated	ility Study and Preliminary Design, I-20 Economic Developmer ntersection and roundabout improvement alternatives for a Lin compliance with LADOTD EDSM V.1.1.5 (Analysis) and EDSM of intersection and roadway alternatives and developed contents.	ADOTD Stage 0 Study. Two 1 V.1.1.6 (Design). Performed
11/14 – 10/15	LA 44 and Loosemore Road Ro and roadway design, prelimit	bundabout, LADOTD, Ascension Parish, LA. Deputy Project Mannary subsurface utility investigation, and cost estimates for the control with either a single-lane roundabout or two single-la	nager and Lead Engineer. Geometric the replacement of an existing two-
01/14 – 03/17	Geometrics and Cost Engineer related to improving congestion included two split diamond in	Iternative and Environmental Assessment, LADOTD, Livingstor Iternative and Environmental Assessment. High-priority project completing an environmental assessment on and operations along Range Avenue in the vicinity of the I-Iterchange options with roundabout, partial clover leaves, and we we need the next existing, eastern overpass at Pete's Highway	nt and traffic engineering services 12 interchange. Design alternatives collector-distributor road

	interchange alternative at Range Avenue. Developed <i>roadway geometry, line and grade</i> , 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 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.
09/09 – 03/12	I-20 – Garrett Road Connector Interchange Improvements, LADOTD, Ouachita Parish, LA.
	Lead Engineer. Geometry and roadway design of the new KCS Railroad overpass and connector between Kansas Lane and Garrett Road, including interstate interchange modifications to include two-lane roundabouts at ramp intersections, and three two-lane roundabouts along the corridor outside of the interchange. Improvements to the pedestrian and bicycle facilities were included in accordance with the LADOTD Complete Streets Policy. The compact project area required a detailed layout to confirm feasibility.
08/11 – 09/13	Chef Menteur Bridge and Approaches Replacement EA and Line and Grade Study, LADOTD, Orleans Parish, LA. Lead Roadway/Bridge Geometrics and Cost Engineer. Responsible for preparing the proposed geometric configurations of a bridge replacement at Chef Menteur Pass. Investigated four alignments as well as both low-level moveable and high-level fixed span bridge configurations. Performed detailed geometric layouts of both the mainline highway, bridge, and adjacent collector roadways to mitigate impacts to environmentally sensitive resources and local residential, commercial, and historical interests.
09/12 – 09/13	US 165 Connector and Ouachita River Bridge EIS, LADOTD, Ouachita Parish, LA. Roadway Design Engineer. Responsible for preparing roadway and bridge general plan designs, line and grade report development, and cost estimates for a new five-mile elevated highway through Chauvin Swamp north of Monroe, LA. An in-town corridor was also developed which entailed upgrading Louisville Avenue and Hudson Lane in Monroe, the Lea Joyner Bridge over the Ouachita River, and Stella Street in West Monroe to function as a one-way couplet. Early coordination with Delta Southern Railroad was included.
06/00 – 12/00	Hesper and Helios Avenue Street Rehabilitation, Jefferson Parish Engineering Department, Harvey, LA. Roadway Engineer. Completed inspections and rehabilitation recommendations for eight blocks of local streets. Rehabilitation required demolition and replacement of concrete road panels, milling and overlay of asphalt surfaces, and installation of drainage inlets and subsurface drainage, as well as replacement of damaged and under-performing subsurface drainage. Performed inspections, collaborated with Parish representatives and utility companies, identified appropriate rehabilitation measures, and produced plans illustrating the rehabilitation recommendations.
2/09 – 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 ENGINEERS - ARCHITECT	HORN		1
		S · PLANNERS	Years of relevant experience with this employer	<1
Name Caldwell P. "Cal" Joy, PE Title Senior Transportation Engineer			Years of relevant experience with other employer(s)	8
Degree(s) / Years		 	Bachelor of Science / 2012 / Civil Engineering/Univers	
<u> </u>		uniration data	PE.0043830 / LA / Exp. 03/31/2022	Sity Of Alabattia
	n number / state / ex 2019	•		
Year registered		Discipline	Professional Engineer	
Experience dates	brief description of I	<u>'</u>	Stage 0 Safety Studies - Roadway Design	
Experience dates			ant to the proposed contract	as worked an include Stage O
			ce in the field of civil engineering. Design projects he ha adway rehabilitation, new construction, widening, desi	the state of the s
			lard intersection, and roundabout design for state high	
			ation and detailing, typical section development, design	
			e use of MicroStation and InRoads.	qualitity calculations, and cost
	Cotimation, which	require exterisive	ase of Microstation and Infloads.	
03/21 – 03/21	LA 3040 Stage 0 Sa	afety Feasibility S	tudy, LADOTD, Houma, LA . <i>Project Manager</i> . Responsik	ole for coordinating with all agencies
	and stakeholders f	for the developm	ent of alternatives and document preparation. BH perfe	ormed a study to identify safety
	and/or operationa	ıl issues along 2.5	miles of Martin Luther King Boulevard (LA 3040) in Ho	uma, LA to evaluate reasonable
	alternatives to ad	ldress any deficie	encies discovered	
02/21 – 03/21	US 84 Improvements, LADOTD, Winnfield, LA. Project Manager. Responsible for coordinating with all agencies and stakehole			
	·		s and document preparation. BH performed <i>environme</i>	
		ield, including <i>lin</i>	e and grade studies for several alternatives, environm	ental impacts, and traffic and bridge
	studies.			
02/17 – 02/20			Safety Program – Endom Bridge, LADOTD, Monroe LA.	
			metric details, drainage, and traffic control plans. Plan p	· ·
			eman Avenue and South Riverfront Street with an emp	_
			preparation of <i>preliminary and final plans, environmer</i>	ntal services, line and grade, drainage
12/17 06/10	design, sidewalks,		-	-it-Franks De-reille females
12/17 – 06/18			Safety Program - City of Vidalia, LADOTD, Vidalia LA. Pro	
			netric details, drainage, and traffic control plans. Plan part presentation for their city council meeting and a	•
				public meeting. This report included
05/20 – 01/21			<i>rovements</i> on two streets and five intersections. Safety Program – PEC Sullivan Rd (Hooper) LA3034, LAD	OCTO Control I A Project Engineer
03/20-01/21		-	typical sections, geometric details, design, drainage, a	,
			gn at the intersection of Sullivan Road and Hooper Road	·
		•	lane roundabout with four legs and two lanes in each d	
			geometric details, graphical grades, and typical sections	
	premimury plans,	,c and grade,	geometrie details, grapinear grades, and typical section	ons.

Firm employed by	/ BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS		
	Mingo, PE	Years of relevant experience with this employer	7
Title Civil Eng		Years of relevant experience with other employer(s)	0
Degree(s) / Years		Bachelor of Science/2014/Civil Engineering/Louisiana	
. ,	n number / state / expiration date	PE.0043700 / LA / Exp. 03/31/2022	,
Year registered	2019 Discipline	Professional Engineer	
_	brief description of responsibilities.	Stage 0 Safety Studies – Roadway Design	
Experience dates	Experience and qualifications releva	ant to the proposed contract	
	<u>feasibility studies</u> , <u>safety studies</u> , N primary responsibilities include <u>des</u>	ars of experience working on projects related to <u>road de</u> EPA studies, roadway rehabilitation, widening, roundab <u>ign development</u> , design plan preparation and detailing re extensive knowledge and use of MicroStation and Inl	out, and lighting design projects. His g, design quantity calculations, and
02/16 – 02/17	BH conducted a Stage 0 Feasibility approximately 1.8 miles of continuo	dy for LA 182 Sidewalk and Handicap Ramp Improveme and Planning Study to evaluate the feasibility of the reput sidewalks and handicap curb ramps along LA 182 in environmental documentation, report preparation, as	habilitation and construction of Iberia Parish, LA. Responsible for
11/18 – 03/21	LA 3040 Stage 0 Safety Feasibility Study, Houma, LA. Project Designer. BH 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.		
06/19 – 02/21	US 167 Stage 0 Feasibility and Planning Study, Elsie Street to Gilbert Drive, Ville Platte, LA. <i>Project Engineer</i> . 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 .		
03/19 – 06/20	LA 117 from LA 8 to LA 118 Stage 0 Feasibility and Planning Study and Environmental Inventory, Leesville, LA. <i>Project Designer</i> . Responsible for assisting with <i>concept development and project exhibits</i> . BH performed a <i>Stage 0 Feasibility and Planning Study</i> for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study compared correcting vertical and horizontal geometry and adding passing lanes and turn lanes at strategic locations. <i>Environmental impacts and cost estimates</i> were prepared.		
07/15 – 04/19	I-49 at US 190 and LA 31 Stage 0 Fe conducted a <i>Stage 0 Feasibility and</i> interchanges with US 190 and LA 32 Rate Method to determine overreprates, <i>designing alternative concept</i>	rasibility and Planning Study and Tier Analysis, Baton Rod Planning Study to evaluate alternatives to improve training Study Parish. Responsible for conducting a crast resentation of crash types, identifying segments and intents in accordance with LADOTD minimum design guide resusing the Environmental and Preliminary Scope and	uge, LA. Project Designer. BH affic operations and safety at the I-49 h data analysis using the Number- tersections with abnormal crash lines, determining the environmental

Firm employed by	digital					
Name Taylor M	arino, P.E., PTOE	Years of relevant experience with this employer	5			
Title Project E	ngineer	Years of relevant experience with other employer(s)	0			
Degree(s) / Years	/ Specialization	BS / 2015 / Civil Engineering				
Active registration	n number / state / expiration date	PE.0044447 / LA / Exp. 09/22; PTOE #5026;				
		ATSSA Traffic Control Flagger / Exp. 06/22; Supervisor	/ Exp. 06/22;			
		LADOTD Traffic Engineering Analysis Process and Repo	ort Module 1, 2, 3			
Year registered	2020 Discipline	Civil Engineering				
. , ,	brief description of responsibilities.	Low-Cost Safety Design				
Experience dates	Experience and qualifications relev					
		gineer performing roadway design, traffic impact analysi				
28		estimation and construction scheduling. To date, Taylor I				
		on engineering and inspection on 27 LADOTD/LPA Projection	<u> </u>			
		s (SRTPPP), and Local Road Safety Programs (LRSP) throu				
	Engineering Process and Report Tr	AASHTO, MUTCD and LADOTD requirements. Mr. Marinc	nas completed LADOTO Traffic			
11/17 - Ongoing			inger for this nedestrian enhancement			
11/17 - Origoning	LADOTD H.009308: New Orleans DPW SRTS Sidewalk Project, New Orleans, LA. <i>Project Engineer</i> for this <i>pedestrian enhancement, sidewalk, signing, and pavement marking, and road safety improvement project</i> . He was responsible for assisting with the					
	feasibility report, design, cost estimation, and scheduling for this contract involving the development of a feasibility study and					
		ngineering plans and non-standard specifications for the installation of 5' concrete sidewalks, 10' wide multi-use paths, road				
		Hybrid Beacon, solar powered school zoneflashing beaco	• • •			
	pedestrian crosswalks, and pedestrian countdown signal heads with accessible pedestrian pushbuttons.					
03/17 – 04/17	LADOTD H.012479: Audubon Aver	ue and Ardoyne Drive Mini Roundabout, Thibodaux, LA.	Engineer Intern for this road safety			
		<i>sibility study,</i> design of the improvements, geometric lay				
		nical specifications (TS), development of constructability	·			
		n of a new mini-roundabout at the intersection of Auduk	· · · · · · · · · · · · · · · · · · ·			
09/17 – 12/21		ety Program - Bootlegger Road Shared Use Path, St. Tam	· ·			
	Stage O 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					
	1	• • •	·			
	, ,	idget. The feasibility study phase is complete, and design				
09/17 – Ongoing		Public Places Program, Gretna Downtown Intersection I				
		, budgeting, and scheduling for this contract involving th				
		<i>liant handicapped curbed ramps</i> on 4th St. (from Huey P.				
	,	The project will also include bulb outs at some the inters				
	Luecrease pedestrian walking lengt	hs. All work will be in accordance with AASHTO, MUTCD,	ADA, and LADOTD requirements.			

01/17 – 03/19	LADOTD H.009282: Safe Routes to School Program, Covington Sidewalks & Other Safety Improvements, Covington, LA. Project 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.
03/18 - Ongoing	LADOTD H.012236: Local Road Safety Program, Pedestrian Crosswalk Enhancements (PH 2), New Orleans, LA. <i>Project Engineer</i> for this contract involving scoping and design of 51 total intersections within the Central Business District and French Quarter in downtown New Orleans that involves <i>improvements needed to the existing pedestrian safety</i> . Improvementswill include the installation of pedestrian traffic control signal indicators, pedestrian push buttons, pavement markings for crosswalks, signage, handicapped curb ramps, and repair or improvements to concrete curbs. He is in charge of project design, budgeting, and scheduling.

Firm employed by	, digital			
Name Michael F	endineer	ina	Years of relevant experience with this employer	4
			Years of relevant experience with other employer(s)	1
				1
Degree(s) / Years /	<u> </u>		BS / 2016 / Civil Engineering	
Active registration	n number / state /	expiration date	PE.0044902 / LA / Exp. 03/23	
			LADOTD Traffic Engineering Analysis Process and Repo	ort Module 1, 2, 3
Year registered	2020	Discipline	Civil Engineering	
Contract role(s) / k		•	Low-Cost Safety Design	
Experience dates		•	ant to the proposed contract	
			eer in DE's Kenner office for both transportation and sto	
(mg)			in South Louisiana. Prior to joining DE, Michael served a	
			ompleted field tests, managed scheduling, and develop	
8			dway rehabilitation or new roadway construction. Mr. F	Flynn has completed LADOTD Traffic
22/12		cess and Report Tr	-	
09/18 - Ongoing			PW SRTS Sidewalk Project, New Orleans, LA. Project Engl	· · · · · · · · · · · · · · · · · · ·
	, ,	•	arking, and road safety project. He is responsible for site	o .
		·	ne project area are suitable for ADA standards, and whe ply with ADA standards. During the design phase, duties	·
	·		ons for or the installation of 5' concrete sidewalks, 10' w	The state of the s
	0 .	, ,	acon, solar powered school zone flashingbeacon, ADA co	
			own signal heads with accessible pedestrian pushbuttor	
09/17 – Ongoing			ead Boulevard Pedestrian Intersection Enhancements, N	
,			ently in design for this <i>Safe Route to Public Places</i> projec	
	_		in the City of New Orleans.	
01/20 – 06/20	LA 39: W Judge I	Perez Drive Vehicu	lar, Pedestrian and Bicycle Safety Enhancements, Stage	0 Feasibility Study, St. Bernard
	Parish, LA. Projec	ct Engineer on feas	ibility study for NORPC to identify alternatives along the	e W. Judge Perez Drive (LA 39)
	corridor betwee	nRowley Boulevard	l and Pakenham Drive to <i>i<mark>mprove safety</mark></i> for all users with	n emphasis on <i>non-motorized</i>
	traffic safety. Re.	sponsible for the o	versight of planning and engineering of the site investig	ations, data collections,
	preliminary draw	vinglayouts, cost e	stimating, and final report.	
05/19 – Ongoing	LADOTD H.0119	49: RWD Signing Pl	aquemines Parish, Plaquemines Parish, LA. Project Engir	neer for this <i>LRSP signing and</i>
	*	• . •	ment low-cost safety improvements on local roads. Resp	_
	· ·		a scoping report, cost takeoffs, and costestimating for	
			H3 database to analyze crash data to determine which ro	oads had <i>traffic safety issues</i> that
	could best be all	eviated by <i>low-cos</i>	t safety improvements.	

ENVIRONMENTAL PLANNER / SPECIALISTS

Firm employed by	y ARCADI	S		
Name Greg Badon			Years of relevant experience with this employer	9
Title Transpo	rtation and Environ	mental Planner	Years of relevant experience with other employer(s)	4
Degree(s) / Years	/ Specialization		BS / 2008 / Natural Resource Management, Louisiana S	state University
Active registratio	n number / state /	expiration date	NHI 142005 NEPA and the Transportation Decision make Analysis Process & Report Training; USACE 1987 Manual Course 142073 Applying Section 4(f). Putting Policy into	al Wetland Delineation Training; NHI
Year registered	N/A	Discipline	N/A	
Contract role(s) /	brief description o	f responsibilities.	Stage O Studies, Road Safety Assessments, Environmen	tal
Experience dates	Experience and o	qualifications relev	ant to the proposed contract	
03/17 - 06/21	by NEPA. His train the overall project highway-traffic resource surveys and involvement manage projects. Engineering Project Manager Baton Rouge. Retargeted counters	ning and experience of process. He has noise analysis, socions, property-owner in By having the expension and Report Tradestrian and Bicycles. Responsible for the sponsibilities inclusive and the sp	ce in highway traffic noise, wetlands, NEPA, and the TERF been responsible for Stage O, EIS, EA, CE document prepoeconomic impacts, existing conditions documentation, research, and addressing public comments through agent perience to know what is required and expected under Nough planning / feasibility and the NEPA process. Mr. Badaining. The Safety Action Plan and Road Safety Assessments, LADO he development and delivery of a Pedestrian and Bicycle de completing a review of crash data, identification of plan roadway type. Led the second phase of the project wheriority locations identified in the PBSAP. RSAs focused on ble alternatives to improve pedestrian and bicycle safety.	P, provides a solid understanding of baration, environmental permitting, wetland delineations / biological boy coordination, public outreach, EPA, he can effectively support and don has completed Traffic TD, East Baton Rouge Parish, LA. Safety Action Plan for the City of priority locations, and creation of mich included conducting Road in identifying safety issues at the
12/13 – 08/17	LA 3235 Stage 0 Scope and Budge the LADOTD Stage	Safety Feasibility S et and Environme ge 0 Manual of Pr	tudy, LADOTD, Lafourche Parish, LA. <i>Project Scientist</i> . Resental Checklists, purpose and need, environmental invental actice, all environmental resources within the study areas determined and geometric layouts and cost estimates were	sponsible for <i>Stage 0 Preliminary</i> cory and public outreach. Following a were reviewed for potential
05/13 – 05/15	O Preliminary Sc outreach. Follow	ope and Budget a ring the LADOTD S	fety Feasibility Study, LADOTD, Ascension Parish, LA. <i>Propode Environmental Checklists</i> , purpose and need, environtage 0 Manual of Practice, all environmental resources was determined and cost estimates were general.	nmental inventory and public within the study area were reviewed
04/16 – 09/18	safety deficiencie Responsible for o	es at 20 high priori	fety Feasibility Study, LADOTD, Orleans Parish, LA. Project ty intersections in New Orleans with a history of pedestri O Environmental Checklists for all 20 intersections to sup	ian and bicycle crashes and fatalities.

11/12 - 04/13	LA 594 (Millhaven Rd.) Stage 0 Feasibility Study and Preliminary Design, I-20 Economic Development Corporation, Ouachita Parish, LA. <i>Project Scientist</i> . Responsible for <i>Stage 0 Preliminary Scope and Budget and Environmental Checklists</i> , purpose and need development, and environmental inventory. Following the <i>LADOTD Stage 0 Manual of Practice</i> , all environmental resources within the study area were reviewed for potential impacts. Required right-of-way was determined and cost estimates were generated.
02/15 – 08/17	US 71 Corridor - Phase II Stage 0 Feasibility Study, LADOTD; Rapides Parish, LA. <i>Project Scientist</i> . Responsible completion of Stage 0 Environmental Checklists and facilitating public and stakeholder involvement activities.
04/13 – Ongoing	US 11 Environmental Assessment, LADOTD, St. Tammany Parish, LA. Project Manager and Project Scientist. Mr. Badon was responsible for public/stakeholder outreach, agency coordination, technical workshop preparation, environmental document preparation, noise modeling and traffic count field work, Phase I ESA fieldwork, wetland delineation, threatened and endangered species survey, stream assessments, document/records research, and technical report preparation.
01/14 – Ongoing	Pete's Highway Interchange Alternative and Environmental Assessment, LADOTD, Livingston Parish, LA. Project Manager. Known regionally as one of the most congested interchanges on I-12, Range Road (LA 3002) has been the bane of commuters for years. Responsible for public outreach and coordination, LADOTD Environmental Checklist, acquisition of property owner info and technical report documentation.
03/17 – Ongoing	I-49 South (Ricohoc to Berwick) Supplemental Environmental Impact Statement (SEIS), LADOTD, St. Mary Parish, LA. <i>Project Manager</i> . Following the December 2006 Record of Decision (ROD), LADOTD determined that the estimated cost for this segment of I-49 exceeded available resources for the corridor. Efficiencies would need to be developed to upgrade the existing US 90 to Interstate I-49 by constructing a safe corridor while minimizing impacts to businesses, residents, wetlands, and farmlands flanking the corridor. Responsible for project schedule, budget, <i>agency coordination</i> and project updates. Also responsible for <i>public / stakeholder outreach & oversight</i> , existing conditions documentation, field work, purpose and need development, and completion of <i>LADOTD's Environmental Checklist</i> .
02/16 – Ongoing	Florida Avenue EA, LADOTD, Orleans and St. Bernard Parishes, LA. <i>Project Manager and Public Information Officer</i> . Responsible for <i>public / stakeholder outreach oversight, and agency coordination</i> . Coordinated an effort for extensive public meeting notifications and outreach. Oversaw the distribution of door-hangers, radio announcements, advertisements in community papers, press releases, and venue setup. Developed the layout for the open-house public meeting and the looping presentation. Oversaw development of public meeting boards, comment cards, and sign-in sheets. Presented project plans to city council, homeowner organizations, neighborhood associations, and federal agencies as well as the local planning commission. Responded to questions received from the public and summarized meeting attendance and turnout in a public meeting summary document.

Firm employed by	ARCADIS			
Name Jason Morrell, PWS			Years of relevant experience with this employer	7
	onmental Planner	/ Ecologist	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Sp		, ,	BS / 1999 / Agriculture, University of Georgia	
Active registration nu	ımber / state / ex	piration date	Professional Wetland Scientist – #2319 / USA / Exp. 04 NHI Course No. 142005, NEPA and Transportation Dec	
Year registered	2013	Discipline	Wetland Science	
Contract role(s) / brie	ef description of r	esponsibilities.	Environmental	
Experience dates	Experience and	qualifications re	levant to the proposed contract	
	consulting expending expending transportation permitting, with the is experience.	rience. Prior to jo GDOT) evaluatir projects. His area a focus on Clea ed working with (USFWS), and st	ears of experience in ecology and environmental planning of poining Arcadis, he served as a NEPA Planner and Ecological environmental effects and completing permitting and of expertise includes wetland delineation, biological as an Water Act Section 404 permitting and Section 7 Endars the Federal Highway Administration (FHWA), US Army Cate resource agencies. Since 2011, Mr. Morrell has focur of the Transportation Research Board Committee on E	st with the Georgia Department of denvironmental documentation for sessment, and environmental ngered Species Act (ESA) consultation. Corps of Engineers (USACE), US Fish & sed primarily on Transportation
04/16 – Ongoing	wetland delined the proposed in	ation and protect terchange impro	ernative and Environmental Assessment, LADOTD, Living sted species habitat assessment along Range Road in the overnent project. Provided technical review of a Biologic its, in support of the NEPA Environmental Assessment.	ne vicinity of the I-12 interchange for all Resources and Wetland Findings
10/15 – 04/18	North Bayou Black Drive/Hanson Canal Bridge (OSBP) – LADOTD, Terrebonne Parish, LA. <i>Ecologist</i> . Completed a technical review of the <i>Biological Resources and Wetland Findings Report</i> , including required exhibits, prepared for the replacement this off-system highway bridge. Findings from the wetland delineation report were used for a USACE Jurisdictional Determination and Section 404 permit application.			
07/16 - 03/18	Project involved impacting the To (Ferdinand Street within the area project in Biological Resort for bank stabilizers)	stabilizing the sown of St. Franciet) to the Mississ proposed for bacurces and Wetlantion for which the	tion, West Feliciana Parish Department of Public Works, treambank along approximately 3,600 feet along Bayou sville's Wastewater Treatment Facility, pond levees, and sippi River. Completed a wetland delineation and proteink stabilization, as well as adjacent staging and access and Findings Report, including required exhibits, and NV USACE authorization was successfully obtained.	Sara, where severe erosion is d the Parish's only access road ected species habitat assessment reas. Provided technical review of a WP 13 PCN, including permit sketches
09/2019 – Ongoing	management of	embedded (sup	IDIQ Contract, GDOT, Statewide, GA. <i>Project Manager</i> port services) ecology and <i>NEPA</i> staff managing environ ocuments. Design and develop ecology initiatives for the	nmental studies on behalf of GDOT,

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

Firm employed by	ARCADIS			
Name Jayun Thi			Years of relevant experience with this employer	2
,	nental Planner / Ecolo	ogist	Years of relevant experience with other employer(s)	3
Degree(s) / Years /		9.00	BS / 2017 / Environmental Management Systems, Lou	_
_ , ,	number / state / exp	oiration date	Relevant Training: Basic Wetland Delineation training	
Year registered	N/A	Discipline	N/A	,
Contract role(s) / k	orief description of re	esponsibilities.	Environmental	
Experience dates	Experience and qu	alifications relev	vant to the proposed contract	
04/20 – Ongoing	environmental con University. He has experience conduct endangered species the technical lead (USACE), Louisiana of Environmental C LA 82 Improvement reports and data of Gas Act (NGA). Pres	asulting. He hold supported various cting environme es surveys throu and project man Department of Quality (LDEQ), a at, Sabine Pass L analysis for subsepared ecology r	the Arcadis Baton Rouge, Louisiana office with over three is a Bachelor of Science in Environmental Management ous sectors including transportation, industrial, commerntal surveys including waters of the US (WOTUS) deline ghout Louisiana, Arkansas, Texas, Mississippi, and Alabanager for projects requiring permit coordination with the Natural Resources (LDNR), Office of Coastal Managemental well as National Environmental Policy Act (NEPA) reviews. NG, LP, Cameron Parish, LA. Ecologist. Assisted in preparated to the Federal Energy Regulatory Commission (FEDEROPT, a Section 404 permit application, Section 7 Endagements.	Systems from Louisiana State cial, energy, and government. He has ations and threatened and ama. Mr. Thibodeaux has served as e US Army Corps of Engineers ent (OCM), the Louisiana Department ews for federal agencies. Aration of <i>environmental resource</i> (RC) for approval under the Natural ngered Species Act documentation,
02/19 – 04/19	 and created figures utilizing GIS for the LA 82 improvements and modifications to the liquefied natural gas (LNG) facility entrance. Holton Harris Road Bridge, Monroe & Corie, Inc., LP, Over Lake Vernon in Vernon Parish, LA. Ecologist. Conducted a WOTUS delineation for the replacement of an 80-foot long by 18-foot-wide timber bridge on Holton Harris Road, crossing Vernon Lal located south of the City of Anacoco, Louisiana. Responsible for preparing a preliminary environmental finding report and submitting a Nationwide Permit 14 Pre-Construction Notification. 			
05/20 – Ongoing	preparing <i>guidanc</i> LDNR, OCM, and the oil wells, flowlines, identify potential i	e documents, rone USACE New (and a barge the mpacts to oyste ation systems (nittal – COP Stratco, Terrebonne Parish, LA. Technical Lescource reports, and identifying potential impacts for Orleans District. The project involves the removal of sevat served as a well pad located in the Louisiana Coastal 2 or leases, pre-existing pipelines/crossings, and prop wash GIS) software to illustrate project location(s), path, access	a joint permit application with the eral structures including abandoned Zone. Reviewed available data to hing zones. Created figures utilizing

Firm employed b	y BUCHAR'	HORN			
	Mettille, Jr.	:CTS • PLANNERS	Years of relevant experience with this employer	4	
	invironmental Man	ager	Years of relevant experience with other employer(s)	40	
Degree(s) / Years			MA / 1977 / Transportation and Urban Geography, Kal BS / 1975 / Geography and Political Science, University	·	
Active registratio	n number / state /	expiration date	N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) /	brief description c	f responsibilities.	Environmental		
Experience dates	Experience and	qualifications relev	ant to the proposed contract		
03/18 - 10/18	Mr. Mettille is a Senior Environmental Manager for BH's Southern Transportation Operations. He began his career in 19 the Kentucky Transportation Cabinet's (KYTC's) Division of Environmental Analysis, where he served for more than 28 y several positions including Chief Environmental Program Administrator. Mr. Mettille served as the Lead Preparer and R for KYTC environmental documents and socioeconomic assessments throughout much of his career there. He also served KYTC's NEPA and Section 106 process technical expert. He is very knowledgeable of the Section 106 process through his experience in managing KYTC's archaeological and historic program and his private sector project experience. Through presentation and project experiences, he is well known in the NEPA, CIA, CSS, and Section 106 communities throughout southeastern US and nationwide. Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA. Environmental Quantum Communities and Communities throughout southeastern LA. Environmental Quantum Communities and Communities throughout southeastern LA. Environmental Quantum Communities and Commun				
	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 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10.				
2011 – 2015	Houma-Thibodaux to LA 3127 Connection EIS, LADOTD, Southeastern LA. <i>Technical Lead and Project Manager</i> . Conducted a <i>tolling feasibility study and traffic analysis</i> as part of the <i>NEPA process</i> . Performed QA/QC on projects components developed by others.				
2007 – 2008	Houma-Thibodaux to the Sunshine Bridge EIS, LADOTD, Southeastern LA. Lead Author and 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 and issues raised by several public resource and regulatory agencies through the development of the EIS for the Houma-Thibodaux to LA 3127 Connection Project.				
2008 – 2009	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.				

TRANSPORTATION PLANNERS

Firm emp	ployed by	ARCADIS					
				Years of relevant experience with this employer	5		
				Years of relevant experience with other employer(s)	4		
Degree(s	s) / Years	/ Specialization		MS / 2005 / Civil Engineering, The University of Tennes BS / 2004 / Civil Engineering, University of Akron Main			
Active re	egistratior	n number / state / ex	piration date	AICP #029180 / USA / EXP 12/2022; PTP #640 / USA / E 08/2024	EXP 08/2024; RSP #658 / USA /		
Year regi	istered	2016	Discipline	Planner			
Contract	role(s)/	brief description of r	esponsibilities.	Road Safety Assessments, Ped/Bike/Complete Streets			
Experien	ice dates	Experience and qua	alifications relev	ant to the proposed contract			
				er with more than seven years of experience in <u>feasibility</u> ty planning and transportation planning on the local leve			
6				destrian Plan (APBPP) and the Regional Strategic Highwa			
4		between the Louisi	ana Departmen	t of Transportation and Development (LADOTD) and loca	l government to conduct safety		
10		analysis, priority er	nphasis areas ar	nd implement proven safety countermeasures from engi	neering and behavior perspectives.		
	THE STATE OF THE S	She has presented	the APBPP in lo	cal, state and national conferences. Her master thesis' to	pic is bike share station selection		
400	(Alignet	through a combina	tion of GIS and o	community survey. She was awarded the AICP Outstandi	ng Graduate of Year Award in 2013.		
05/18 - 0	06/21	_	•	ty Action Plan and Road Safety Assessments, LADOTD, East	· · · · · · · · · · · · · · · · · · ·		
		_	•	e development and delivery of a <i>Pedestrian and Bicycle Sa</i>			
				ppleting a review of crash data, identification of priority loc			
			•	type. Assisted with the second phase of the project which	-		
		· ·		cations identified in the PBSAP. RSAs focused on identifying	- ,		
03/17 - 0	02/20	developing feasible alternatives to improve pedestrian and bicycle safety and employ LADOTD's Complete Streets Policy. East Baton Rouge Parish Pedestrian and Bicycle Master Plan, LADOTD, East Baton Rouge Parish, LA. Associate Project Manager.					
03/17 - 0	J3/2U	_		d coordination of a <i>bicycle and pedestrian facility master</i>	•		
				ating <i>existing conditions, analyzing crash/incident data</i> , r			
				dback, and listing priority.	ceciving input from stakeholders,		
03/17 – 0	Ongoing			y Community Education Program, LADOTD, Rapides Parish	LA. Project Lead. Developing the first		
33,17	0606	•	~	for the Alexandria/Pineville Metro Area in Central Louisian			
		*		rian suitability index model. Compiled census data and cra			
			<i>mprovements</i> . Formed a Bicycle and Pedestrian Advisory Committee and conducted <i>public outreach</i> through on-line survey and				
public meetings. Listed projects, prioritized improvements, projected costs, and associated funding sources. Designed in							
		and illustrated map	S.				
04/16 - 0	09/18	New Orleans Pedes	trian Stage 0 Fea	sibility Study, LADOTD, Orleans Parish, LA. Planner. Project	involved assessing safety deficiencies		
		at 20 high priority in	ntersections in N	ew Orleans with a history of pedestrian and bicycle crashes	and fatalities. Responsible for		
				et Checklists and Stoge O Documentation for all 20 interse	ections to support the implementation		
		of proposed safety	countermeasures	5.			

Firm employed by	ARCADIS					
Name Jack Cebe	e, PE, RLA	Years of relevant experience with this employer	4			
Title Safe & Su	ustainable Transportation Project	Years of relevant experience with other employer(s)	7			
Manager						
Degree(s) / Years ,	/ Specialization	MBA / Business Administration / 2019 / Georgia Institu	e,			
			MS / 2017 / Civil and Environmental Engineering / Georgia Institute of Technology			
		BA / 2011 / Landscape Architecture / Clemson Univers				
Active registration	n number / state / expiration date	PE 047895 / GA / Exp. 12/2022; PE 39300 / SC / Exp. 0	6/2022; PE 052926 / NC / Exp.			
		12/2022; RLA LA001821 / GA / Exp. 12/2022;				
Year registered	LA 2015, PE 2021 Discipline	Civil, Transportation				
(/ ;	brief description of responsibilities.					
Experience dates	Experience and qualifications rele					
		ned experience in the transportation field and has worke				
		neering at different points throughout his career. His has o	the state of the s			
6.5		icycle and pedestrian facility planning and design, landsca				
		ical analysis, policy development, and community engage				
The state of the s		perspectives and stakeholder desires into his planning ar				
8	· ·	scape architecture and civil engineering to create street a				
		supportive of adjacent businesses and their needs, access	sible for users with sight or mobility			
06/10 On sain s	limitations, and are implementab		Duning at Maria are as at Dilea /Dad Mari			
06/18 – Ongoing	Renew Atlanta DeKalb Avenue Corridor Improvement Project, City of Atlanta, Georgia. Deputy Project Manager and Bike/Ped Key Team Lead. Responsible on a two-stage effort to improve pedestrian and bicycle facilities on DeKalb Avenue in Atlanta.					
08/19 – Ongoing	Howell Mill Bike/Ped Improvements Corridor Study, Upper Westside CID, Atlanta, Georgia. Deputy Project Manager and Bike/Ped Key					
	Team Lead. Responsible for a study	\prime to improve conditions for bicycling and walking along Howe	ell Mill Road in Atlanta. Concepts will			
		ucture concepts as well as off-street alignments along low-v	-			
06/12 – 06/13	, , ,	o, Illinois. <i>Planner.</i> Led the production of environmental surv				
		projects to be installed around the city of Chicago in 2014. A				
		utions that best address constraints along selected corrido				
07/13 – 10/13	1	Community, Luling, Louisiana. <i>Planner</i> . Developed <i>concept</i>				
	· ·	ommunity. Improvements will create a multi-modal main street through the addition of street				
04/14 05/15	trees, landscaping, pedestrian-scaled streetlights, sidewalks, a bicycle and pedestrian side path, curb and gutter, and parking. Bike and Pedestrian Connectivity Master Plan, City of Evansville, Evansville, Indiana. Assistant Project Manager. Responsible for the					
04/14 – 05/15	1	icycle and pedestrian master plan. Led the development of				
		recommendations and components of <i>public outreach</i> .	tasks such as bicycle and pedestrian			
01/13 – 06/14		DA Design, Bikes Belong Green Lane Cities, Multiple Location	os Planner Worked with the Rikes			
01/13 00/14	_	Texas; Chicago, Illinois; Memphis, Tennessee; Portland, Oreg				
		of <i>guidelines that address ADA issues</i> surrounding transits				
		graphic cutsheets to explain the guidelines.				

GIS AND CADD SUPPORT STAFF

Firm employed b	y ARCAD	DIS			
Name Joshua Chatelain			Years of relevant experience with this employer	11	
Title Senior Digital Data Analyst			Years of relevant experience with other employer(s)	7	
Degree(s) / Years	s / Specialization		BS / 2002 / Geography, University of New Orleans		
Active registration	on number / state ,	/ expiration date	N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s),	/ brief description	of responsibilities.	GIS / Data Analytics		
Experience dates	s Experience and	qualifications rele	vant to the proposed contract		
06/18 – 10/19	transportation planning and an ArcGIS applicat Editor, ArcGIS I Geostatistical A Online, ArcGIS Server Manage I-10 Queue War Developed the feastbound from	engineering field. In alysis, data acquision stack and data Data Reviewer, Arconalyst, ArcGIS Network and Studio. In a Systems Enginerics of its kind ITS Sylla ITS Sylla ITS Sylla ITS The	ears of experience using Geographic Information Systems de is experienced in performing infrastructure mapping a lition, field survey oversight, and providing GIS support for driven applications include: ArcMap, ArcCatalog, ArcInfo, GIS Workflow Manager, ArcGIS Pro, ArcGIS 3D Analyst, Arwork Analyst, Production Mapping, ArcPad, ArcGIS Collect Web App Builder, AutoCAD, Enterprise Databases, ArcSDI eering Analysis, LADOTD, Baton Rouge, Louisiana/H.013482 estems Engineering Analysis involving the evaluation of a Quanalysis required processing and evaluation of traffic processing to identify existing traffic conditions.	nd assessment, transportation r ITS projects. Experience with ESRI ESRI Roads and Highways, Event cGIS Spatial Analyst, ArcGIS tor, ArcGIS Model Builder, ArcGIS E, Python, ArcGIS Server, and SQL .1. Probe Data and GIS Analyst. eue Warning system on I-10	
01/14 - 01/18	Retainer Contract for an Enterprise LRS System Development Louisiana Department of Transportation & Development, Statewide, Louisiana. GIS Analyst. Responsible for the implementation of an Enterprise Linear Referencing System (LRS) using ESRI 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 Road 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 Ente Responsible for	rprise LRS System D the implementatior	evelopment, City of Baton Rouge/Parish of East Baton Rouge of an Enterprise Linear Referencing System using Geon ssessment, design, build, and implementation of a parish w	nedia and Oracle Spatial. Conducted	

Firm employed	by Jaiaital				
	endineering	V			
	el Cochran	Years of relevant experience with this employer	4		
	echnician	Years of relevant experience with other employer(s)	13		
- , ,	rs / Specialization	AS/2003/Drafting and Design Technology			
	ion number / state / expiration date	NA			
Year registered		NA			
,) / brief description of responsibilities.	Data Analytics & Visualization / GIS / CADD			
Experience dat		vant to the proposed contract experience in preparing plans and specifications for proje			
	flood protection, utilities, and stru LADOTD/LPA Projects through the Programs (LRSP) throughout the s	octural projects throughout coastal Louisiana. Mickey has Safe Routes to School (SRTS), Safe Routes to Public Place tate, in both rural and urban areas. Mickey is proficient w Revit Structural (3D Modeling) and Sketchup.	provided design support for 28 s (SRTPPP), and Local Road Safety		
11/19 – 12/21	LADOTD H.013082: Bootlegger Road Shared Use Path, St. Tammany Parish, LA. CAD Technician for Stage O Feasibility Study and project design 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 chool as the feasibility study determined the south option not constructible within the project budget. The feasibility study phase is complete, and design is in the final design plan stages. He is responsible for drafting all plan sheets including the typical section design, plan, and profile, detailing and cross sections.				
06/16 – 10/18	LADOTD H.012479: Audubon Avenue and Ardoyne Drive Mini Roundabout, Thibodaux, LA. CAD Technician for this road safety improvement project involving feasibility study, design of the improvements, geometric layout, cost estimating, plan preparation development of technical specifications (TS), development of constructability and biddability forms. The scope of this project involved the installation of a new mini-roundabout at the intersection of AudubonAvenue and Ardoyne Drive.				
12/16 – 10/18	sidewalk, and road safety improve of St. Anthony Elementary School,	alks and Safety Improvements, Gretna, LA. CAD Technician ment project to design to repair the existing pedestrian side. McDonogh #26 Elementary School, William Hart Elementary Schools. He was responsible for the plan layout and detail	dewalks and crosswalks in the vicinity tary School, and Shirley		
01/19 - ongoin	repairs to the existing pedestrian s	destrian Improvements, Gretna, LA. CAD Technician for de idewalks and crosswalks along 4th St.from Dolhonde St. tl St. He was responsible for plan layouts and detailing of sid	hru Huey P. Long Ave. and along Huey		

QA/QC AND TECHNICAL ADVISORY TEAM

Firm employed by	ARCADIS					
Name Jonathan	Reid, PE, PTOE, RSP		Years of relevant experience with this employer	6		
Title Certified	Project Manager III		Years of relevant experience with other employer(s)	15		
Degree(s) / Years ,	/ Specialization		MS / 1999 / Civil Engineering, North Carolina State Un	iversity, 1999		
			BS / 1994 / Civil Engineering, Lawrence Technological	Institute, 1994		
Active registration	n number / state / ex	piration date	PE #032806 / GA, PE #027930 / NC			
			PTOE #1588 / USA / Exp. 03/2023			
			RSP #104 / USA / Exp. 12/2024			
Year registered	2008	Discipline	Civil Engineering			
Contract role(s) /	brief description of r	esponsibilities.	QA/QC and Technical Advisor (Safety)			
Experience dates	Experience and qu	alifications relev	ant to the proposed contract			
			f experience. His background includes traffic modeling, i			
			s, safety studies and design, Road Safety Assessments, c			
			entertainment facility planning, highway signing/marking			
	The state of the s		lming studies. He has managed traffic operations and pla	anning projects for state, federal and		
	municipal clients a	nd developers ir	the U.S. and abroad.			
01/18 – 05/18	US 61 Corridor Foo	sibility Ctudy / Ai	rline Hwy), LADOTD, East Baton Rouge Parish, Louisiana.	Tachnical Advisor Despensible for		
01/16 - 03/16			<i>feasibility study.</i> The purpose of the study is to assess tra	•		
		_				
			divided highway. Scope of services included traffic data collection and analyses, <i>safety data</i> onsidering corridor growth rates, assessment of <i>access management improvements</i>			
	*	· · ·	ept), and evaluation of concept using HCM and HSM me			
06/15 – Ongoing	Safety Project Identification & Evaluation Phase I, Georgia Department of Transportation, Statewide, Georgia. <i>Traffic Engineer</i> .					
00,20 01.80.1.8			f <i>feasibility studies</i> including the development and valida			
			ents and concept development for 50+ projects identified			
	•	·	ed <i>developing feasible and affordable concepts</i> for proje	•		
	•		change modifications and non-traditional designs such a			
	roundabouts. Each	project had des	ired stipulations such as no right-of-way acquisition, vali	idation 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		•	pplemental Environmental Impact Statement (SEIS), LAD	• •		
		·	ment of <i>Tier 1 Analysis</i> to identify a range of <i>feasible alte</i>	ernatives and determine the impacts		
	with respect to tra	ffic operations, s	safety, and cost.			

05/16 – Ongoing	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 – Ongoing	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
10,1. 00,10	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. Concept is awaiting funding.
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. <i>Project Manager</i> . Study to perform <i>public involvement, traffic analysis, design concept, environmental study</i> and EA document preparation, and preparation of <i>preliminary plans</i> 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 <i>context sensitive design</i> to minimize impact to adjacent National Park Service and historic properties while enhancing business development opportunities in this important historic corridor. Project received the <i>2012 Georgia Partnership for Transportation Quality award for Best Context Sensitive Design and Public Participation</i> .
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 5 th in a series on
	innovative intersection designs and highlight national experience with this emerging new intersection form, designed to <i>reduce</i>
	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	y BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS					
	Q. Dickerson III, PE, PS	Years of relevant experience with this employer	14			
	I in Charge	Years of relevant experience with other employer(s)	33			
Degree(s) / Years		BS / 1974 / Civil Engineering, University of Mississippi				
Active registratio	n number / state / expiration date	PE.0038922 / LA / 09/2022; PE. 07586 / MS / 12/2021				
Year registered	2014 / 1979 / 1984 Discipline	Civil / Professional Surveyor				
Contract role(s) /	brief description of responsibilities.	QAQC and Technical Advisor (Environmental)				
Experience dates	Experience and qualifications relev	ant to the proposed contract				
	the Mississippi Department of Tran construction, and maintenance of t of expertise include project manag	ars of professional transportation engineering experien sportation's District Two, where he was responsible for he intermodal transportation network in the 17 counties ement, quality assurance, constructability review, and constructability review, and constructability review.	coordinating the planning, designing, es of northwest Mississippi. His areas onstruction engineering and			
10/18 – 03/21	LA 3040 Stage 0 Safety Feasibility Study, LADOTD, Houma, LA. <i>Principal-in-Charge</i> . BH 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 <i>evaluate reasonable alternatives to address any deficiencies discovered</i> . Responsible for assisting the Project Manager, monitoring the budget and schedule, and quality control oversight.					
06/19 – 02/21						
06/19 – 02/21	US 167 Stage 0 Feasibility and Planning Study, Elsie Street to Gilbert Drive, LADOTD, Ville Platte, LA. <i>Principal-in-Charge</i> . BH is preparing a <i>Stage 0 Feasibility and Planning Study</i> to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. <i>Environmental impacts and cost estimates</i> will be prepared. Responsible for assisting the Project Manager, monitoring the budget and schedule, and quality control oversight.					
03/19 – 11/20	LA 429 Connector Stage 0 Feasibility and Planning Study, LADOTD, Ascension Parish, LA. <i>Principal-in-Charge</i> . BH prepared a <i>Stage 0 Feasibility and Planning Study</i> to <i>evaluate alignments</i> for a limited-access corridor (LA 429) in the vicinity of I-10, between LA 30, LA 73, and US 61 in Ascension Parish, LA. The scope consists of stakeholder and public meetings, site visits and <i>data collection</i> , phasing of <i>alternative development</i> for the corridor, <i>Stage 0 scope and budget checklists</i> , and an <i>opinion of probable cost</i> to prepare the <i>Stage 0 Report</i> .					
03/14 - 08/17	Charge. BH performed a Stage 0 Fe accordance with NEPA requirement	e O Feasibility and Planning Study and Tier Analysis, LAD casibility and Planning Study and environmental invents, to evaluate conceptual alternatives and no-build for g the Project Manager, monitoring the budget and sche	Itory for LADOTD, documented in the LA 73 corridor to improve traffic			

Firm employed by	digital	ein ee			
Name Frank Lia	ng, P.E., PTOE	IIIG	Years of relevant experience with this employer	26	
	ident, Principal		Years of relevant experience with other employer(s)	0	
Degree(s) / Years ,	•		BS / 1994 / Civil Engineering		
Active registration	n number / state / o	expiration date	PE.0028549 / LA / Exp. 03/31/22; PTOE #3362 / USA / Flagger / Exp. 11/2025; Supervisor / Exp. 11/2025;	Exp. 11/2024; ATSSA Traffic Control	
Year registered	1999	Discipline	Civil Engineering		
Contract role(s) / I	brief description o	f responsibilities.	QAQC and Technical Advisor (Ped/Bike/Low-Cost Safe	ty Design)	
Experience dates	Experience and o	qualifications relev	ant to the proposed contract		
04/12 - 09/15	construction malocal government Design IDIQ – sing transportation along and LADOTD requestion Company. Mr. Yas Pedestrian Cross Safety Program and development of Department on the Constructability. Providing constructability. The Central Busing installation of roces.	t agencies. Frank hace the inception of nalysis, safety stud uirements. As Chies and has completed walk Enhancement the feasibility reports determination. The scope of this puction engineering ness District of down adway striping for	gineering, and project management for the LADOTD, the last been involved with SRTS/SRTPPP and LRSP Programs of the program nearly 15 years ago. He has served as least ies and improvements of pedestrian and bicycle routes of Engineer, he oversees the design, schedule, and programs the LADOTD Traffic Engineering Process and Report Trafts Phase I, LADOTD, New Orleans, LA. Principal in Charge ement, signing and pavement marking, and road safe or the coordinating with New Orleans Department of Public of existing facilities, and assisting in the development are project involved the development of a feasibility study, and inspection services for the pedestrian safety enhancement of the pedestrian safety enhancem	e Regional Planning Commission, and — which evolved into LADOTD Safety d engineer for traffic and in accordance with ASSHTO, MUTCD ress of all projects within the ining. e/Project Manager of this Local Road ty project. His duties included the Works Traffic Engineering nd review of the engineering plans for developing engineering plans, and incements of 44 intersections within itdown pedestrian signal heads, sidewalks and curb ramps.	
06/17 – Ongoing	Pedestrian Crosswalk Enhancements Phase II, LADOTD, New Orleans, LA. <i>Principal in Charge</i> for this <i>pedestrian enhancement, signing and pavement marking, and road safety improvement project.</i> 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	pavement mark development and of a feasibility st replacement of 2	ing project. His du I d review of the er udy, developing en	ADOTD, Kenner, LA. Principal in Charge for this Local Roaties included assisting in the development of the feasibil agineering plans for constructability. The scope of this pagineering plans, andproviding construction engineering y signage and striping (including crosswalks) along a nursese corridors.	ity report and assisting in the project consisted of the development and inspection services (CE&I) for the	

10/18 - 04/19	Stage 0 Feasibility Study- Selected Corridors, LADOTD, Hammond, LA. <i>Principal in Charge</i> for a feasibility study for the selected corridors of West Church Street, Corbin Road, Mooney Avenue, Coleman Avenue, and JW Davis Road that focused on <i>accessibility and connectivity improvements</i> 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. <i>Conceptual Plans, Cost Estimates, Stage 0 Environmental and Budget Checklists</i> 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. <i>Principal in Charge</i> for the Stage 0 Feasibility Study and design for this <i>pedestrian enhancement</i> project. His duties included the attendance of site visits, development of the <i>feasibility study</i> , 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 <i>safe connection for leisure bicyclists and pedestrians</i> along Marconi Drive.

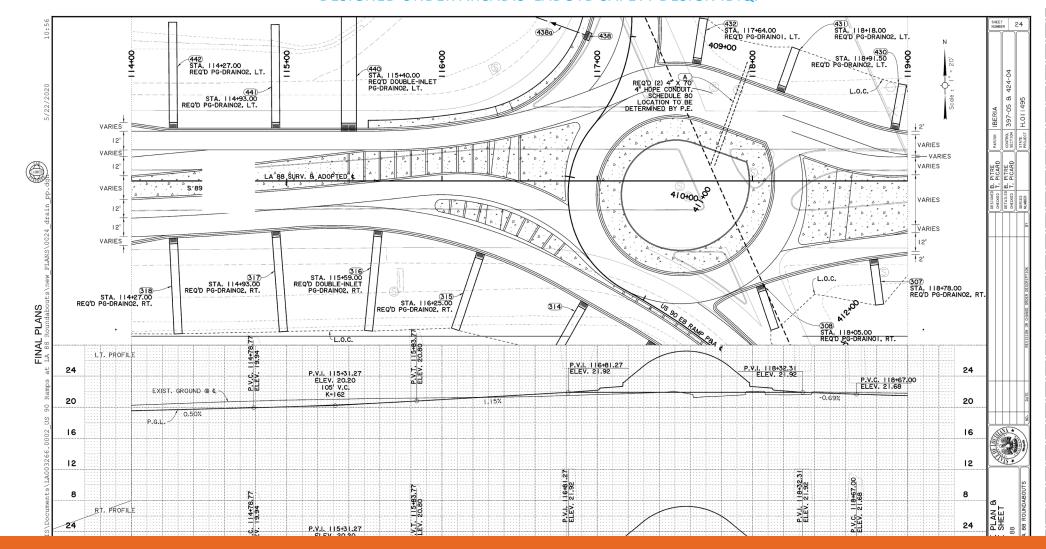
Firm employed by	ARCADIS	3			
	uddy" Porta, Jr., PE		Years of relevant experience with this employer	10	
_	Engineer		Years of relevant experience with other employer(s)	37	
Degree(s) / Years			BS / 1973 / Civil Engineering, Louisiana State University		
Active registration	n number / state / e	expiration date	PE.016425 / LA / Exp. 09/2023		
Year registered	1977	Discipline	Civil Engineer, Environmental Engineer		
Contract role(s) /	brief description of	responsibilities.	QAQC and Technical Advisor (Roadway Design)		
Experience dates	Experience and q	ualifications releva	ant to the proposed contract		
ACC.	Mr. Porta brings i	more than <u>47 year</u>	s of experience in the transportation field. During his 37	7-year career at LADOTD, he	
			ars with 8 of those years in responsible charge of a desig		
(6)			inagement. He managed the <u>Off-System Bridge Replace</u>		
			th being the LADOTD TIMED Program Manager. This \$5		
			ighways as well as construct 3 new bridges, 2 of these b		
	<u> </u>	<u> </u>	er at LADOTD as the <u>State Road Design Engineer Admin</u>		
07/15 – 05/19	, ,		Jefferson Ave. Roundabouts, LADOTD, Covington, Louis		
			out in Covington as a <i>quality assurance/quality control rev</i>	viewer for roadway plans. Plans	
, , , , , , , , , , , , , , , , , , , ,			of sidewalk for use by pedestrians		
04/12 – 01/14			rerpass Replacement Environmental Assessment and Lir	• • • • • • • • • • • • • • • • • • • •	
	•		design guideline compliance. Replacement and widening	, .	
			ect included evaluating partial and full-access intersecti		
			wed and long steel span bridge in this urban area of Slices, commercial parking impacts and adapting to the North	•	
	_	following the const	is, commercial parking impacts and adapting to the Nort	TOIK SOUTHER HIGHT-OF-Way and traver	
01/14 – Ongoing	·		, LADOTD, Livingston Parish, Louisiana. Responsible for	OAOC of roadway plans, line and	
01/11 011801118			compliance. High-priority project completing an EA and t		
	_		ns along Range Avenue in the vicinity of the I-12. Alterna		
			but, partial clover leafs, and c-d road components at both Range Avenue and the next		
	_ :		Highway (LA 16); and a diverging diamond interchange	_	
10/16 - 02/18	North Bayou Blac	k Drive Bridge Off-	System Highway Bridge Replacement Program, LADOTE), Terrebonne Parish, Louisiana.	
	Reviewed plans for the <i>replacement of an off-system highway bridge</i> . Detailed designed effort included field surveying, right of				
	way adjustments, crash barrier selection, hydraulic analysis, preliminary and final plan preparation and quantity estimation				
09/12 – Ongoing			er Bridge - Environmental Impact Statement, Line and G	**	
			QAQC of roadway plans, line and grade, and LADOTD design		
		•	aluated along with various tolling scenarios. All alternat		
	wooded wetlands	s associated with C	hauvin Swamp near the Russell Sage Wildlife Managem	ent Area.	

04/12 - 01/14	LA 434 Corridor Stage 1 Environmental Assessment, New Orleans Regional Planning Commission, Lacombe, Louisiana. Responsible for <i>LADOTD design guideline compliance</i> . 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. The project involved stream permit application coordination.
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. LADOTD TIMED Program Manager. Worked and coordinated on a daily basis with the TIMED Program Manager (LTM) to develop training, procedures, policies, and guidelines for the program. This \$5 billion program was developed to <i>multilane over 500 miles of state highways as well as construct three new bridges;</i> 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. This program was mandated in the Louisiana Constitution. 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 <i>roadway design</i> 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. This seminar was presented in several cities in Louisiana to LADOTD employees. Responsible for the <i>development of design criteria for Offset Left Turn Lanes and design guidelines for the replacement of bridges on state routes</i> .
06/84 – 10/90 10/05 – 10/10	Off-System Bridge Program, LADOTD, Stateside, Louisiana. Replaced / rehabilitated existing bridges located on nonfederal routes in the cities and/or parishes in Louisiana. Provided the project and program management. Responsible for the selection of the qualifying sites, the distribution of the federal funds to the participating parishes, the selection of the design consultant, the coordination with the parishes and the consultants, the development of the scope of services and fee for each project, the technical review of the topographic surveys and construction plans and providing comments to the consultants and parishes, and the approval of all invoices.



Section 17

LA 88 AT US 90 ROUNDABOUT AND SAFETY IMPROVEMENTS DESIGNED UNDER ARCADIS' LADOTD SAFETY DESIGN IDIQ.



17. Firm Experience

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road, Env
Project name	New Orleans Pedestrian Stage 0 Safety Feasibility Study			Firm responsibility (prime or sub?)	Prime
Project number	H.012312.1 Owner's name			Louisiana Department of Transportation	and Development (LADOTD)
Project location	Orleans Parish, LA			Owner's Project Manager	Adriane McRae
Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA 70802, 225 379 1950, adrian					ov
Services commenced by this firm (mm/yy) 04/16 Total consultan			Total consultant	contract cost (\$1,000's)	\$320
Services complete	d by this firm (mm/yy)	09/18	Cost of consultar	nt services provided by this firm (\$1,000's)	\$307

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

Firm's Role: LADOTD in partnership with the New Orleans Regional Planning Commission (NORPC) tasked Arcadis with completing a *pedestrian safety feasibility study* of 20 intersections located in Orleans Parish. NORPC identified the candidate intersections through a detailed Pedestrian Safety Action Plan (PSAP) investigation.

Firm Members Involved: Ari Deitch, Akhil Chauhan, Jose M. Rodriguez, Thomas Montz, Yuwen Hou, Greg Badon

Stage 0 Safety Study and Documentation: The Arcadis team conducted the studies in accordance with *DOTD's Stage*0: Manual of Standard Practice, and DOTD's Traffic Signal Manual. Stage 0 documentation, including Preliminary

Scope and Budget and Environmental Checklists, were completed for all 20 intersections.

Needs Assessment: Arcadis evaluated 3 years of crash data to *identify crash trends, overrepresented crashes, High* **PSI Locations,** etc. Site visits were performed to document the user experience from a ped/bike perspective, assess the

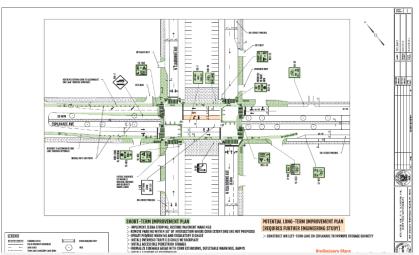


Figure: Design of short-term (green) and long-term (orange) implementable solutions for high-priority project intersection

condition of existing infrastructure, and identify safety concerns.

Alternative Development & Preliminary Design Plans: Improvements focused on pedestrian and

bicycle safety and included signal improvements, striping & signing improvements, lighting improvements, sidewalk/crosswalk improvements, curb extensions, traffic calming, ADA compliant curb ramps, and parking modifications. Improvements were segmented into short-term and long-term alternatives based on the cost and time needed to implement. *Complete streets* and *context sensitive solutions* were an important aspect of alternative

development due to the historic nature of the area. *Preliminary design plans, cost estimates, and benefit-costs were developed* for each intersection to determine the feasibility of implementing the proposed alternatives and to inform project prioritization.

Stakeholder Engagement: A critical component of the project was the need to *engage a wide range of project stakeholders* from the NORPC, City of New Orleans, LADOTD, and District 02. Arcadis *conducted routine workshop sessions* to review proposed improvements and ensure that all team members were in agreement.

- Stage 0 Feasibility Study
- Data Collection
- Historical Crash Analysis
- Highway Safety Manual Analysis
- Warrant Analysis
- Alternative Development
- Preliminary Design Drawings
- Construction Cost Estimates
- Stakeholder/Agency Coord.
- Stage 0 Checklists

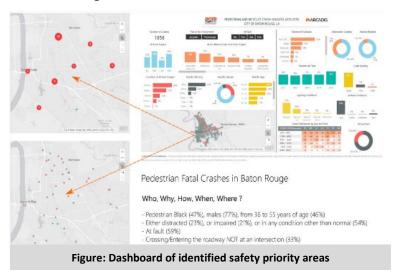


Figure: High visibility crosswalk and pedestrian refuge installed at I-10 Service Road and Read Boulevard

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*	Planning, Traffic	
Project name	Baton Rouge Pedestrian and Bicycle Safety Action Plan and			Firm responsibility (prime or sub?)	Prime	
	Road Safety Assessments					
Project number	H.013029.1 Owner's name Lo			puisiana Department of Transportation and Development (LADOTD)		
Project location	East Baton Rouge Parish, LA			Owner's Project Manager	Jessica DeVille	
Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA 70				0802, 225 379 1844, jessica.deville@la.gov		
Services commenced by this firm (mm/yy) 03/18 Total of			Total consultant cor	tract cost (\$1,000's)	\$438	
			ervices provided by this firm (\$1,000's)	\$550		

Firm's Role: The City of Baton Rouge has been identified as a focus city for pedestrian and bicycle safety improvements. Arcadis is responsible for a two-phase project, which included 1) developing strategic safety action plan to provide a basis for data-driven implementation of safety measures and 2) identifying prioritized list of locations and/or corridors, conducting *Road Safety Assessments (RSAs)* to *identify safety issues and countermeasures*, and providing a high-level *feasibility evaluation*.

Firm Members Involved: Akhil Chauhan, Greg Badon, Thomas Montz, Ari Deitch, Jose M. Rodriguez, Yuwen Hou, Garret Keller, Max Aguirre



Phase 1 – Pedestrian and Bicycle Safety Action Plan:

Crash data, roadway geometry, and crash reports were collected, cleaned, and reviewed to identify pedestrian and bicycle safety deficiencies. An *interactive, dynamic dashboard* summarizing the information was created, and access to the dashboard was granted to the project team. A *data-driven, three-tier screening process* was used to

identify safety priority areas and target locations where safety countermeasures and strategies will have the most effect. The PBSAP proposed a list of engineering and non-engineering countermeasures to address potential safety concerns.

Phase 2 – Road Safety Assessments: Conducted for the 10 priority locations with project stakeholders which included LADOTD HQ and District staff, City of Baton Rouge, CATS, BRPD, LSU, and FHWA. RSAs were conducted in accordance with the latest state and

federal policy guidance and focused on *identifying safety issues related to pedestrian and bicycle modes* and *identified feasible countermeasures* to mitigate safety issues. Countermeasures were grouped into short-term, mid-term, and long-term alternatives based on the cost and time needed to implement. Arcadis conducted *construction cost estimates* and *predictive safety analyses* as part of the overall feasibility assessment for selected countermeasures.

Stakeholder Involvement: The Arcadis team developed a detailed stakeholder matrix, which identified stakeholders based on various levels of involvement: a technical advisory committee, stakeholders, and focused outreach.

- Stage 0 Feasibility Studies
- Data Collection
- Historical Crash Analysis
- Safety Countermeasures
- Ped/Bike Improvements
- Stakeholder / Agency Coordination
- Road Safety Assessments
- Construction Cost Estimates
- Predictive Safety Analysis



Figure: Photo taken during RSA showing condition of sidewalk and curb ramps

Firm name	ARCADIS			Past	Performance Evaluation Discipline(s)*	Planning, Traffic, Road, Env
Project name	LA 3235 Stage 0 Safety Feasibility Study			Firm	responsibility (prime or sub?)	Prime
Project number	H.010688.1 Owner's na		ne	Louisiana Department of Transportation	and Development (LADOTD)	
Project location	Lafourche Parish, LA			Own	er's Project Manager	April Renard
Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, I				, LA 7	0802, 225 379 1919, april.renard@la.gov	
Services commenced by this firm (mm/yy) 10/13 To		Total consultant contract cost (\$1,000's)		ntract cost (\$1,000's)	\$473	
Services completed by this firm (mm/yy) 03/15 Cost of con		Cost of consu	ltant s	services provided by this firm (\$1,000's)	\$315	

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

Firm Members Involved: Akhil Chauhan, Greg Badon, Thomas Montz, Ari Deitch, 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 3year 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.

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.

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

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

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

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)*	Planning, Traffic, Road, Env
Project name	US 71 Corridor – Phase II Stage 0 Feasibility Study			Firm	responsibility (prime or sub?)	Prime
Project number	H.010824.1 Owner's nar			ne	Louisiana Department of Transportation	and Development (LADOTD)
Project location	Rapides Parish, LA			Owr	ner's Project Manager	Jody Colvin
Owner's address,	Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA 70802, 225 242 4635, jody.colvin@la.gov					
Services commenced by this firm (mm/yy) 02/15 Total con		Total consulta	Total consultant contract cost (\$1,000's)		\$228	
			ltant s	services provided by this firm (\$1,000's)	\$210	

Firm's Role: Arcadis was tasked by LADOTD to conduct a *Stage 0 Feasibility Study* to determine reasonable alternatives that *address historical safety issues at the Alexandria traffic circle* at the intersection of US 71 (MacArthur Drive) and US 165 (Masonic Drive) in Alexandria, Louisiana.

Firm Members Involved: Akhil Chauhan, Greg Badon, Thomas Montz, Ari Deitch, Jose M. Rodriguez, Justin Maderia



Figure: VISSIM Animation of Grade Separated Intersection Concept

Data Collection and Needs Assessment: A wide range of data was collected for the purpose of the study. Most importantly, *Arcadis conducted an in-depth review of historical crash data and performed field visits to identify safety issues and areas of concern.*

Alternative Development / Screening: Based on identified safety and operational needs and future volume projections, Arcadis conducted an initial *Tier 1 Alternatives Screening*. Arcadis identified reasonable alternatives for analysis, which included Median U-turn (MUT) intersection, Continuous Flow Intersection (CFI), and grade separated intersection concepts that would *reduce conflict points*. Calibrated

VISSIM models and *preliminary design drawings* were developed. Arcadis also evaluated *phased implementation*

scenarios for the grade separated intersection concept to reduce initial upfront costs. Throughout the study, Arcadis met regularly with LADOTD HQ and District 08 project team members to understand key issues and develop context sensitive solutions.

Quantify Project Benefits: Project benefits were evaluated through microsimulation model results and *predictive safety analysis*. Expected crashes were estimated using appropriate *Crash Modification Factors*. Travel time savings and crash reductions were monetized using FHWA recommended values. *Construction cost estimates* were performed using LADOTD Bid Estimating Tools. A *benefit-cost ratio was calculated for each alternative* and was included in Stage 0 documentation.

Stage 0 Documentation: Arcadis completed the *Stage 0 Preliminary* **Scope and Budge Checklist** and **Environmental Checklist** as part of the Stage 0 documentation. Additionally, a traffic report and public meeting summary were completed.

- Stage 0 Feasibility Study
- Highway Safety Manual Analysis
- Data Collection
- Historical Crash Analysis
- Volume Development
- Alternative Development / Screening
- Preliminary Design Drawings
- Construction Cost Estimate
- Benefit-Cost Analysis
- Public / Stakeholder Involvement
- Environmental Checklist

Site-Specific Predictive Safety Analysis Results	s – Build Alter	native Compa	rison
Alternative Description Crash severity level	Total Crashes/ <u>yr</u>	Fatal and Injury (FI) Crashes/ <u>yr</u>	Property Damage Only (PDO) Crashes/yr
Existing Conditions*	234.33	44.00	190.33
Alternative 1: Interchange - Phase 1	22.30	6.32	15.95
Alternative 1: Interchange - Phase 2	27.53	10.03	17.48
Alternative 2: Partial Median U-Turn Intersection	12.35	3.22	9.13
Alternative 3: Continuous Flow Intersection	11.69	3.41	8.28

^{*}Not comparable to Alternatives 1, 2, or 3

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	I-49 Interchange Stage 0 Safety Feasibility Study			Firm responsibility (prime or sub?)	Prime
Project number	H.012687.1 Owner's name		Owner's name	Louisiana Department of Transportation and	d Development (LADOTD)
Project location	Lafayettte Parish, 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) 11/16 Total consulta		Total consultant	contract cost (\$1,000's)	\$242	
Services completed by this firm (mm/yy) 09/17 Cost of consulta		nt services provided by this firm (\$1,000's)	\$212		

Firm's Role: Arcadis' role was to perform a **Stage 0 Feasibility Study** to identify **short-term and long-term safety improvements** to address identified needs at the interchange of I-49 at Veterans Boulevard, I-49 at W. Gloria Switch Road, and I-49 at W. Pont Des Mouton Road in Lafayette Parish, LA.

Firm Members Involved: Ari Deitch, Akhil Chauhan, Jose M. Rodriguez

Data Collection and Analysis: Crash data was obtained for years 2013 to 2015 to evaluate the safety performance of the study area. Arcadis developed crash summaries, calculated crash rates, determined overrepresented crashes, and evaluated the distribution of crash frequency, type, and severity. The analysis revealed a high number of angle crashes occurring at interchange ramp intersections. Additionally, Arcadis performed a traffic operations analysis of existing and future conditions to identify areas of congestions that may contribute to crashes. Primary needs identified were to increase capacity, improve safety, manage frontage road access, and accommodate future growth.

Alternative Development / Screening: Safety countermeasures were identified for each interchange and were grouped into short-term and long-term alternatives. A special focus was given to short-term improvements that were

low cost and could be implemented quickly to address safety issues. Short-term improvements at the Veterans Drive interchange included RCUT intersections at adjacent frontage roads to *reduce conflict points* and address historical safety issues. *Preliminary drawings* and *construction cost estimates* were developed for reasonable alternatives. *Complete streets improvements* were also

Figure: Implemented low-cost improvement to remove channelized right turn lane @ Gloria Switch Rd

incorporated into both short-term and long-term alternatives including sidewalk and crosswalk improvements.

Agency / Stakeholder Coordination: Arcadis

Figure: Proposed short-term safety improvements at Veterans Drive Interchange.

worked with the District 03 DTOE during the study to better understand project needs, ensure that improvements are context sensitive, and minimize review times. Additionally, Arcadis presented the results of the study to the local MPO technical committee and worked with the LADOTD PM to identify funding sources for short-term improvements. Arcadis received a rating of 4.6/5.0 and positive feedback on our performance from the LADOTD Project Manager.

- Stage 0 Safety Feasibility Study
- Data Collection
- Historical Crash Analysis
- Traffic and Warrant Analysis
- Safety Countermeasures
- Low-Cost Solutions
- Preliminary Design Drawings
- Construction Cost Estimates
- Stakeholder/Agency Coordination

Firm name	ARCADIS			Pas	t Performance Evaluation Discipline(s)*	Planning, Traffic, Road, Env
Project name	Joe Sevario/Roddy Rd Stage 0 Safety Feasibility Study			Firr	n responsibility (prime or sub?)	Prime
Project number	H.010795.1 Owner's nan			ne	Louisiana Department of Transportation	and Development (LADOTD)
Project location	Ascension Parish, LA			Ow	ner's Project Manager	April Renard
Owner's address, phone, email 1201 Capitol Access Road, Baton Rouge, LA				LA 7	0802, 225 379 1919, april.renard@la.gov	
Services commenced by this firm (mm/yy) 05/14 To		Total consultant contract cost (\$1,000's)		ntract cost (\$1,000's)	\$369	
Services completed by this firm (mm/yy) 05/15 Cost of con			Cost of consul-	tant s	ervices provided by this firm (\$1,000's)	\$193

Firm's Role: The Arcadis team performed a *Stage 0 Feasibility Study* for the purpose of evaluating the feasibility of roundabouts at intersections along Joe Sevario / Roddy Road between US 61 and LA 42.

Firm Members Involved: Akhil Chauhan, Greg Badon, Thomas Montz, David Fulks, Sridhar Basetty, Buddy Porta

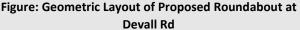
The focus of the study was to develop geometric layouts of reasonable alternatives to enhance the study intersections and to identify the environmental impacts associated with those alternatives. A *purpose and need* was developed and right-of-way, significant trees, wetlands, hazardous sites, USTs, cultural resources, and water wells impacts were identified. Arcadis developed recommendations for roundabouts as intersection controls. The study was *conducted in accordance with DOTD's Stage 0: Manual of Standard Practice* and "EDSM No: VI.1.1.5: Roundabout Study and Approval", and *Stage 0 Scope and Budget and Environmental Checklists* were completed.

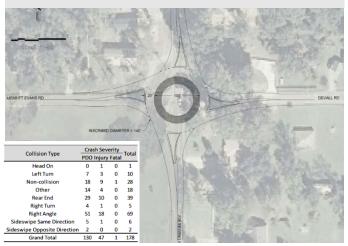
Traffic Analysis and Alternative Screening: The *traffic data* along the Joe Sevario/Roddy Road corridor was studied to determine its existing operating conditions. A *warrant analysis* at all study sites was conducted to determine if signalization is warranted. Intersections found to warrant signalization were modeled to evaluate the operational benefits of intersection improvements (un-signalized channelized turns, J-turns etc.). In addition, all study intersections were modeled as roundabouts to determine the adequacy of the roundabout intersection treatment.

Safety Assessments: A comprehensive safety assessment was conducted to provide a quantitative estimate of the expected safety performance of each alternative. The crash data analysis included determining the predominant crash patterns, locations, overrepresented crashes, etc. The expected safety performance was estimated for each potential alternative using the predictive methods that are described in the Highway Safety Manual (HSM).

Design Development and Impact Assessment: Arcadis developed *preliminary geometric layouts* and *cost estimates* for the identified potential improvements. The estimates included costs associated with engineering, environmental, construction, right-of- way acquisition/ relocation, utility relocation, and contingencies. Arcadis conducted a site visit of the project area to investigate the presence of infrastructure that may be impacted by the project. This investigation included the identification of potential construction obstacles, location of existing utilities (public and private), location of existing right-of-way markers, and mapping of existing drainageways and drainage patterns. A *benefit-cost analysis for each alternative was provided*. The benefit-cost ratio provided the safety and operational improvements to the corridor over the estimated construction cost.

- Stage 0 Safety Feasibility Study
- Data Collection
- Traffic and Safety Analysis
- Alternative Development / Screening
- Highway Safety Manual
- Preliminary Design Plans
- Preliminary Cost Estimates
- Environmental Impacts / Checklists
- ROW Impacts





Firm name	ARCADIS			Past Pe	rformance Evaluation Discipline(s)*	Traffic	
Project name	Louisiana Strategic Highway Safety Plan Update			Firm responsibility (prime or sub?)		Sub	
Project number	H.972419.1 Ow			name	me Louisiana Department of Transportation and Development (LAI		
Project location	Statewide, LA	Statewide, LA			Manager	Autumn Goodfellow-Thompson	
Owner's address, 1	phone, email 1201 Capit	ol Access Road	, Baton Rou	ige, LA 7	0802, autumn.goodfellow-thompson@	Pla.gov	
Services commenced by this firm (mm/yy) 04/21			Total const	ultant co	ntract cost (\$1,000's)	\$500	
Services completed by this firm (mm/yy) Ongoing C			Cost of consultant services provided by this firm (\$1,000's)		ervices provided by this firm (\$1,000'	s) \$130	

Firm's Role: Arcadis is responsible for all data analysis tasks for the Louisiana Strategic Highway Safety Plan Update.

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

Fatalities	+	Serious	Injuries
Person Count		EAs	EAs %
10,711		10,490	97.9%

Emphasis Areas	PersonCount	~ C	F%
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	\bigcirc	23.2%
Older Driver	1,637	\bigcirc	15.3%
Pedestrian	1,523	\bigcirc	14.2%
Motorcycle	1,201	\bigcirc	11.2%
CMV	1,008	\bigcirc	9.4%
Lane Departure/Head-On	812	\bigcirc	7.6%
Pedalcycle	372	\bigcirc	3.5%
Off-Road Vehicle	171	\bigcirc	1.6%
Work Zone	99	\bigcirc	0.9%
Train	39	\bigcirc	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

stakeholders to review results and discuss potential alternatives to EAs and analysis methodologies.

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.

project meetings were conducted with LADOTD and project

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

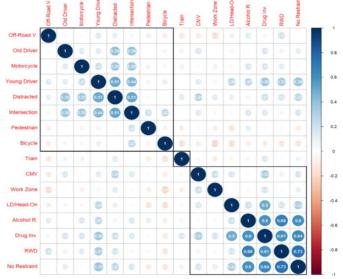


Figure: Correlation Cluster Analysis of Contributing Factors for Fatal and Serious Injury Crashes

Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS			Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road,	
	ENGINEERS ARCHITECTS FEATURES				Env.	
Project name	LA 19 Widening (LA 64 to Sunset Boulevard) Stage 0			Firm responsibility (prime or sub?)	Prime	
	Feasibility and Safety Stu	dy				
Project number	SP No. 4400004012/Task	Order No.	Owner's name	Louisiana Department of Transportation and Development (LADOT		
	H.011695.1					
Project location	Baton Rouge, LA			Owner's Project Manager	Dilton Anderson	
Owner's address, p	phone, email 1201 Capit	ol Access Road	l, Room 605Z, Bat	on Rouge, LA 70804.9245, 225 379 1807, dilt	on.anderson@la.gov	
Services commenced by this firm (mm/yy) 08/15 T			Total consultant	contract cost (\$1,000's)	\$155	
· · · · · · · · · · · · · · · · · · ·			Cost of consultar	\$94		

Firms Role: As a Task Order under Contract SP No. 4400004012, Buchart Horn conducted a comprehensive **Stage 0 Corridor Feasibility Study** to evaluate 1.41 miles of LA 19 (Zachary-Slaughter Highway) from LA 64 (Main Street) to Sunset Boulevard in Zachary, Louisiana. Due to existing safety issues and congestion, this project was identified to **increase capacity and improve safety** along the corridor. The project is needed to accommodate existing and future traffic demand, **improve the level of service** of the roadway, and **reduce crashes**.

Firm Members Involved: James Q. Dickerson III, Joseph F. Mingo

Safety Study and Design Development: Design of safety improvement concepts were developed incorporating access management strategies to reduce vehicle conflict points and widening to increase capacity and the operational efficiency of the road. Project tasks included project initiation meeting with key stakeholders, background information collection and existing conditions assessment, project research and determination of baseline conditions, crash analysis and Highway Safety Manual predictive methodology, developing and evaluating proposed build alternatives, traffic study (including turning movement counts and

SHEET 3

SHEET 4

SHEET 4

SHEET 4

SHEET 5

SHEET 5

SHEET 6

SHE

Proposed Access Management Improvements on LA 19 in Zachary, Louisiana

seven-day, 24-hour machine counts), *opinion of probable*

Relevant Services

- Stage 0 Corridor Study
- Access Management
- HSM Predictive Methods
- Data Collection
- NEPA Requirements
- Alternative Development
- Geometric Design
- ROW Impact Assessment
- Traffic and Safety Analysis
- Construction Cost Estimate
- Stage 0 Checklists
- Stage 0 Documentation

cost, environmental/social impact analysis, safety effectiveness evaluation of proposed improvements, and preparing a Stage 0 Feasibility Report.

Stage 0 Documentation: Analysis results and information collected as a part of this study were documented in the Stage 0 Feasibility Report a manner consistent with National Environmental Policy Act requirements and all applicable LADOTD EDSMs and Design Guidelines. An additional cost estimate was developed at the request of the client for the widening of LA 19 from LA 64 to Montegudo Boulevard. The cost estimate was included in the Final Stage 0 as an Appendix.

Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS		Past 1	Performar	nce Evaluation Discipline(s)*	Planning	g, Traffic, Road, Env
Project name	LA 3040 Corridor Improvement Safety Feasibility Study and RSAs				Firm responsibility (prime or sub?)		Prime
Project number	H.013322.1		Owner's name	Louisian	na Department of Transportation and Development (LADO		
Project location	Houma, LA				Owner's Project Manager	Dan Magri	
Owner's address, 1	phone, email 1201 Capit	ol Access Road, I	Room 605Z, PO Bo	x 94245,	Baton Rouge, LA 70804, 225.379	9.1232, d	an.magri@la.gov
Services commenced by this firm (mm/yy) 07/17			Total consultan	Total consultant contract cost (\$1,000's)			\$304
Services completed by this firm (mm/yy) Ongoing			Cost of consultant services provided by this firm (\$1,000's) \$279			\$279	

Firm's Role: BH 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: James Q. Dickerson III, Joseph F. Mingo, Cal Joy

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.

Context Sensitive Solutions: 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**.

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

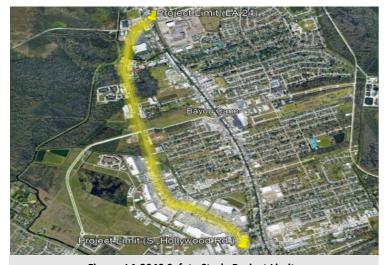


Figure: LA 3040 Safety Study Project Limits



Figure: Existing Conditions on LA 3040 Showing High Density of Access Points

Firm name	BH BUCHART H	+ORN			Past Performance Evaluation Discipline(s)* Planning, Traffic,		
	ENGINEERS ARCHITECTS	5 * PLANNERS				Road, Env		
Project name	Safety Study	for US 61 (A	Airline Highway)	from Cardinal	Firm responsibility (prime or sub?)	Prime		
	Drive to Bert	Street						
Project number	H.014305.1 Owner's name Lo				Louisiana Department of Transportation and	uisiana Department of Transportation and Development (LADOTD)		
Project location	LaPlace, LA				Owner's Project Manager	Trey Jesclard		
Owner's address,	phone, email	1201 Capit	ol Access Road, F	Room 605Z, PO B	ox 94245, Baton Rouge, LA 70804, 225.379.12	32, Trey.Jesclard@la.gov		
Services commend	Services commenced by this firm (mm/yy) 05/21			Total consult	Total consultant contract cost (\$1,000's)			
Services completed by this firm (mm/yy) Ongoing			Ongoing	Cost of consu	Cost of consultant services provided by this firm (\$1,000's) \$122			

Firm's 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: James Q. Dickerson, Joseph F. Mingo, Cal Joy

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 documentation and checklist, and an opinion of probable cost, as well as public and state and local official meetings.

Context Sensitive Solutions: This corridor has a lot an excess driveways and high volumes during the AM and PM peaks; as well as, an accident prone two-way left-turn lane. 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**.

- 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: US 61 Safety Study Limits



Figure: Existing Conditions on US 61 Showing Median Treatments

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*		Planning, Traffic, Road, Env
Project name	LA 594 (Millhaven Road) Stage 0 Feasibility Study			Firm	responsibility (prime or sub?)	Prime
	and Preliminary Design					
Project number	N/A Owner's na			ne I-20 Economic Development Corporation		
Project location	Ouachita Parish, LA			Owner's Project Manager		Dr. Dwight Vines
Owner's address, j	phone, email 400 Lea Jo	yner Expresswa	ay, Monroe, LA	7120	01, 318 329 2250, dwight.vines@la.gov	
Services commenced by this firm (mm/yy) 10/12 Total cons			Total consulta	sultant contract cost (\$1,000's)		\$148
Services completed by this firm (mm/yy) 04/13 Cost of cons			Cost of consu	ltant s	services provided by this firm (\$1,000's)	\$148

Firm's Role: Arcadis was contracted by the I-20 Economic Development Corporation to conduct an *LADOTD Stage O Feasibility Study* to improve LA 549 (Millhaven Road) between Garrett Road and Russel Sage Road in Monroe, Louisiana.

Firm Members Involved: Akhil Chauhan, Greg Badon, Thomas Montz, Garret Keller, Buddy Porta

The Millhaven corridor is expected to experience significant growth in the future due to several planned commercial developments. The purpose of the feasibility study was to estimate the impacts of these developments and identify improvement alternatives that would accommodate the expected increase in demand. The Arcadis team coordinated closely with LADOTD, the I-20 Economic Development Corporation and the Northeast Louisiana Council of Governments (NLCOG) in the development and evaluation of alternatives.

Initial Data Gathering: Researched the funding history, existing conceptual geometric layouts, transportation plan of the area and other important issues. *Gathered field information for developing an understanding of physical, engineering, and environmental features of the site.*

Relevant Services

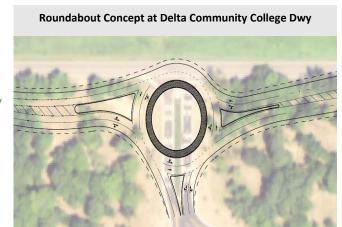
- Stage 0 Safety Feasibility Study
- Stage 0 Checklists
- Traffic and Safety Analysis
- Preliminary Design Drawings
- Cost Estimate
- Roundabout Design
- ROW Impact Assessment
- Stakeholder and Agency Coordination
- Environmental Checklists

Traffic & Safety Study: The traffic study scope of work included the following tasks:

- **Data Collection** Collected **traffic counts** and speed data for each intersection approach. Obtained historical traffic data from LADOTD and NLCOG; existing Traffic Signal Inventory forms from LADOTD to determine the operation of existing traffic signals.
- Traffic Safety Obtained crash data from LADOTD for most recent three-year period. Identified crash types and estimated crash rates.
- Intersection and Corridor Analysis For each existing and future scenario, performed intersection and roadway segment capacity analysis using Synchro, SIDRA, and HCS. Evaluated roundabouts in compliance with LADOTD EDSM V.1.1.5 (Analysis) and EDSM V.1.1.6 (Design).

Preliminary Roadway Design and Cost Estimates: *Reviewed and prepared LADOTD design criteria* for the functional roadway classification such as design speed, lane widths, minimum horizontal curvature, maximum side slopes, horizontal and vertical clearances, and maximum roadway grade. *Prepared roadway plans* and *typical sections* for each proposed concept and developed *construction cost estimates*.

Environmental Documentation: Researched all potential environmental constraints that influence early determinations of the project's feasibility, timing and cost to both the natural and human environment. Used LADOTD's **Stage 0 Preliminary Scope and Budget & Environmental Checklists** to document results of preliminary environmental review.



Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS				erformance Evaluation Discipline(s)*	Planning	g, Traffic, Road, Env
Project name	US 84 Improvements an	d Environment	al Assessment		Firm responsibility (prime or sub?)		Prime
Project number	H.009153.2 Owner's na				Louisiana Department of Transportation and Development (LAD		
Project location	Winnfield, LA				Owner's Project Manager	Catherine Mastine	
Owner's address, 1	phone, email 1201 Capit	ol Access Road	, Baton Rouge,	LA 708	04, 225.379.1232, catherine.mastin@l	a.gov	
Services commenced by this firm (mm/yy) 04/13			Total consultant contract cost (\$1,000's)				\$965
Services completed by this firm (mm/yy) 07/21 C			Cost of consultant services provided by this firm (\$1,000's)			\$541	

Firm's Role: BH was tasked with the preparation of an *Environmental Assessment* in accordance with *National Environmental Protection Agency (NEPA)* and Federal Highway Administration (FHWA) regulations and guidelines for the proposed widening of US 84 in the Winnfield, LA area.

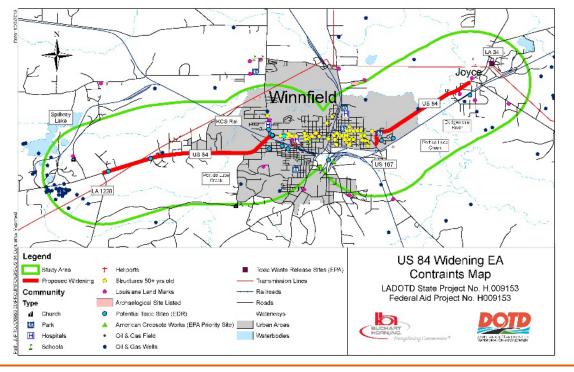
Firm Members Involved: James Q. Dickerson III, John Mettille, Joseph F. Mingo, Cal Joy

Tasks performed by BH to complete the environmental document include, but are 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
- Wetlands mitigation

Public outreach, stakeholders, and agencies meetings were held by BH in order to obtain comments on the proposed build alternatives. A combination of nine build alternatives were developed with *safety improvements* such as roundabouts, *access management*, and widening.

- Environmental Assessment
- Traffic and Safety Analysis
- Roadway Design
- Cost and Impact Assessment
- Alternative Development / Analysis
- Public Involvement
- Agency Coordination



Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS			Past Performance Evaluation Discipline(s)*	Planning, Road, Env, Traffic	
Project name				Firm responsibility (prime or sub?)	Prime	
	Inventory					
Project number	H.013817.1		Owner's nam	e Louisiana Department of Transportation and Development (LADOTD)		
Project location	Leesville, LA			Owner's Project Manager	Hong Zhang, PE,	
					PTOE	
Owner's address, 1	phone, email 1201 Capit	ol Access Road	l, Room 605Z, Ba	aton Rouge, LA 70804.9245, 225 379 1421, Hong.Zh	ang@la.gov	
Services commenced by this firm (mm/yy) 03/19 Total consulta			Total consultan	t contract cost (\$1,000's)	\$239	
Services completed by this firm (mm/yy) 06/20 Cost of consult			Cost of consulta	ant services provided by this firm (\$1,000's)	\$211	

Firm's Role: As a Task Order under Contract SP No. 4400005873, Buchart Horn performed a Stage 0 Feasibility 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 to improve safety. Environmental impacts and cost estimates were prepared.

Firm Members Involved: James Q. Dickerson III, Joseph F. Mingo

Project Tasks: The Feasibility and Planning Study and Environmental Inventory project consisted of data collection for alternative analysis, safety analysis for two project alternatives with a site meeting. The final alternative analysis was revised for alternatives based on *geometric layout analysis*.

Stage 0 Documentation: Buchart Horn compiled all results and findings identified from the alternatives analysis, completed the Environmental Checklist, Preliminary Scope and Budget Checklist, and Opinion of Probable Cost, and summarized them to include in the Stage O Feasibility Report.

- Stage O Feasibility Study
- **Data Collection**
- **Environmental Inventory**
- Safety Analysis
- Alternative Development
- Geometric Layouts / Analysis
- **Construction Cost Estimates**
- Stage 0 Checklists
- Stage 0 Documentation



Firm name	ENCINEERS - ADCHITECTS - DI ANNERS				ast Performance Evaluation Discipline(s)*	Planning, Road, Env, Traffic		
Project name	US 167 Stage 0 Feasibility and Planning Study, Elsie				irm responsibility (prime or sub?)	Prime		
	Street to Gilbert Drive			-				
Project number	H.013459 Owner's nam			Owner's name	j	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Ville Platte, LA	1			О	wner's Project Manager	Hong Zhang, PE, PTOE	
Owner's address, j	phone, email	1201 Capito	ol Access Road	l, Room 605Z, Bat	ton	Rouge, LA 70804.9245, 225 371 1421, Ho	ong.Zhang@la.gov	
Services commenced by this firm (mm/yy) 06/19 Total			Total consultant	co	ntract cost (\$1,000's)	\$135		
			Cost of consultant services provided by this firm (\$1,000's) \$135		\$135			

Firm Members Involved: James Q. Dickerson, III, PE, PS, Karren S. Atchison, Joseph F. Mingo, PE

Project Background: As a Task Order under Contract SP No. 4400005873, Buchart Horn prepared a **Stage O Feasibility Study** to evaluate the **addition of a third lane to US 167** from Elsie Street south to a point past Gilbert Drive in St. Landry Parish that will provide a smooth transition back to US 167.

Project Scope: The Stage 0 Feasibility Study will consist of *site investigation and environmental inventory, safety analysis, alternative analysis, and geometric layout*. Environmental impacts and *cost estimates* will be prepared for Stage 0 documentation.

Stage 0 Documentation: The Feasibility Study shall compile all the results and findings identified from the alternative analysis, complete the *Environmental Checklist, Preliminary Scope and Budget Checklist, and Opinion of Probable Cost* to include in the *Stage 0 Feasibility Report*.

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Proposed US 167 Roadway Widening Alternative Concept Drawing

- Stage 0 Feasibility Study
- Data Collection
- Environmental Inventory
- Alternative Development
- Safety Analysis
- Geometric Layouts / Analysis
- Construction Cost Estimates
- Stage 0 Checklists
- Stage 0 Documentation



Existing Conditions at US 167 and LA 749

Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS			Past Performance Evaluation Discipline(s)*	Planning, Road, Env, Traffic	
Project name	US 167 Stage 0 Feasibility	and Planning	Study, Enola	Firm responsibility (prime or sub?)	Prime	
	Street to Ross Road					
Project number	H.013460		Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Ville Platte, LA			Owner's Project Manager	Hong Zhang, PE, PTOE	
Owner's address, j	phone, email 1201 Capito	ol Access Road	l, Room 605Z, Bat	on Rouge, LA 70804.9245, 225 371 1421, F	long.Zhang@la.gov	
Services commend	ced by this firm (mm/yy)	06/19	Total consultant	contract cost (\$1,000's)	\$121	
Services completed by this firm (mm/yy) 02/21 Cos			Cost of consultar	nt services provided by this firm	\$121	
			(\$1,000's)			

Team Members Involved: James Q. Dickerson, III, PE, PS, Karren S. Atchison, Joseph F. Mingo, PE

Project Background: As a Task Order under Contract SP No. 4400005873, Buchart Hor prepared a *Stage 0*Feasibility 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.

Project Scope: Project tasks included *site investigation, safety analysis, alternative analysis and geometric layouts*. The study compared connecting existing property owners to the new roadway with driveways and modifiying the intersection of old roadways. The study *evaluated two reasonable alternatives* to address the alignment of US 167 from Enola Street (near LA 748) to Ross Road.

Stage 0 Documentation: Buchart Horn compiled all results and findings identified from the alternative analyses, completed the *Environmental Checklist, Preliminary Scope and Budget Checklist, and Opinion of Probable Cost* to include in the *Stage 0 Feasibility Report*.

Existing Conditions at US 167 and LA 748

Or 25 167

Proposed US 167 Realignment Alternative

- Stage 0 Feasibility Study
- Data Collection
- Environmental Inventory
- Alternative Development
- Safety Analysis
- Geometric Layouts / Analysis
- Construction Cost Estimates
- Stage 0 Checklists
- Stage 0 Documentation

Firm name	ARCADIS			Past Performance Evaluation Discipline(s)*			Planning, Traffic, Road	
Project name	I-12 Hard Shoulder Runr	ning (HSR) Feas	ibility Study a	nd Pr	eliminary Design	Firm responsibility	(prime or sub?)	Prime
Project number	H.012357.1 Owner's na				me Louisiana Department of Transportation and Development			t
Project location	East Baton Rouge and Liv	ingston Parish	es, LA	Owner's Project Manager			Adriane McRae	
Owner's address, p	phone, email 1201 Capit	ol Access Road	, Baton Rouge	, LA 70	0802, 225 379 1950,	adriane.mcrae@la.go	ov	
Services commenced by this firm (mm/yy) 03/16 To			Total consulta	Total consultant contract cost (\$1,000's)			\$102	
Services completed by this firm (mm/yy) 10/19 Cost			Cost of consultant services provided by this firm (\$1,000's)			\$102		

Firm's Role: LADOTD contracted Arcadis to conduct a *feasibility study* to evaluate the use of the hard shoulders on I-12 from its interchange with I-10 to its interchange with LA 447. Arcadis performed a thorough analysis of all aspects of the concepts and completed a *comprehensive assessment of all feasible alternatives*. Project team members and key elements of the project are presented as follows.

Firm Members Involved: Akhil Chauhan, Thomas Montz, Ari Deitch, Jose M. Rodriguez

Determination of Best Practices / Alternatives Development: Arcadis conducted extensive research of **best practices around the world**, which helped **establish the safety effectiveness of hard shoulder running lanes** and identified additional considerations to enhance safety. This also provided safety performance information related to trade-offs between lane width changes and addition of new capacity. An understanding of best practices was used

to identify reasonable alternatives.

Traffic and Safety Analysis: Alternatives were evaluated from an operational standpoint using a *calibrated*

Relevant Services

- Stage 0 Feasibility Study
- Research & Applied Best Practices
- Historical Crash Analysis
- Traffic Analysis
- Predictive Safety Analysis
- Preliminary Roadway Design and Typical Sections
- Construction Cost Estimates
- Benefit-Cost Analysis
- Agency Coordination



Figure: Proposed Typical Section of HSR/HOV Lanes on Interstate-12

microsimulation model for the I-12 corridor. A vehicle occupancy study was performed to estimate the number of vehicles that would be eligible to use the HSR lane under an High Occupancy Vehicle (HOV) scenario. This information was used to develop traffic models and evaluate the impacts of HOV scenarios. Arcadis performed existing and future year safety analysis using the most recent three years of approved crash data from the LADOTD crash database to identify historical high crash locations and over represented crashes. The crash data analysis included review of individual crash records

to determine crash types, frequencies, and crash rates. *Predictive safety analysis* was performed to evaluate the safety performance of proposed alternatives and how crash trends may be affected by modifications such as reduced lane widths and additional travel lanes.

Preliminary Roadway Design – Conceptual roadway plans and typical sections were developed to determine if the existing roadway infrastructure could accommodate the proposed HSR / HOV lanes on I-12. Implementing HSR / HOV lanes on existing bridges and coordination with proposed improvements for nearby projects posed the greatest challenges with determining feasibility. Arcadis met with District 61 staff to discuss coordination with ongoing projects and understand project challenges and design constraints. Construction cost estimates benefit-cost ratios were developed for alternatives using LADOTD Bid Estimating Tools, and included costs for bridge / roadway widening, overlay, restriping, and permanent signing.

Stage 0 Documentation: Results of the study were developed into a *feasibility report* that included recommendations on alternatives as well as *implementation* strategies that could significantly reduce construction costs. Final study results were presented to the LADOTD project team and administration.

Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS			Past Performance Evaluation D	iscipline(s)*	Planning, Traffic, Road,
						Env
Project name	I-10 at LA 73 (LA 74 to LA	621) Stage 0 Fe	easibility and	Firm responsibility (prime or su	ıb?)	Prime
	Planning Study and Tiered Analysis					
Project number	SP No. 4400005873/Task	Order No.	Owner's name	Louisiana Department of Transportation and Development (LADOTI		
	H.011160.1.1					
Project location	Prairieville Geismar, LA			Owner's Project Manager		Hong Zhang, PE, PTOE
Owner's address, j	phone, email 1201 Capit	ol Access Road	l, Room 605Z, Bat	on Rouge, LA 70804.9245, 225 3	79 1421, Hon	g.Zhang@la.gov
Services commenced by this firm (mm/yy) 08/17 Total consulta			Total consultant	contract cost (\$1,000's)		\$194
Services complete	d by this firm (mm/yy)	10/18	Cost of consultar	nt services provided by this firm	\$194	

Firm's Role: As a Task Order under SP No. 4400005873, Buchart Horn performed a **Stage 0 Feasibility Study** with **Tiered Alternative Analysis** for I-10 at LA 73 in Prairieville, Louisiana. The project area also included the corridor of LA 73 (LA 74 to LA 621), along with several additional connector routes and realignments, in conjunction with the interchange. The project area in Ascension Parish has experienced significant congestion and safety issues due to substantial changes in population, land use developments, and a lack of access management. The study evaluated widening and interchange alternatives, along with several additional connectors to **improve traffic and safety operations** in the project area.

Firm Members Involved: James Q. Dickerson III, John Mettille, Joseph F. Mingo

Tiered Alternative Analysis: The Tier 1 Analysis on interchange alternatives was completed to identify several high level alternatives. The alternatives were nominally evaluated *for safety/traffic operations, required* **ROW, environmental/social impacts, and cost.** The interchange alternatives were screened, taken into the

LA 73 at I-10 – Proposed Interchange Improvement Alternative

Tier 2 Analysis, incorporated into the greater study area, and a more *detailed traffic and*

safety analysis was performed. A *crash data analysis* and a relative comparison of safety using the *Highway Safety Manual predictive methodology* was conducted using the IHSDM, and predicted crashes for each alternative were provided and summarized by roadway segments, intersections, ramps, and total project.

Concept Design Development: The alternatives were *designed*, incorporating all readily available information such as light detection and ranging, GIS base maps, utility information, aerial imagery, as-built plans, etc.

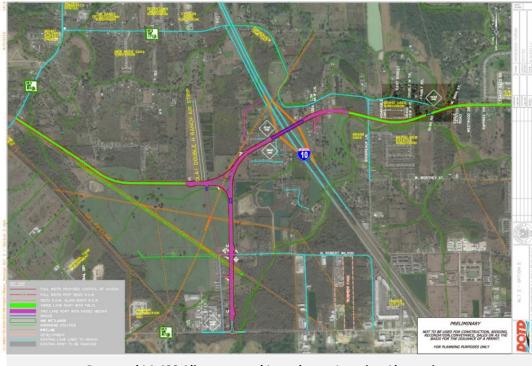
Stage 0 Documentation: Analysis results and information collected as a part of this study are documented in a manner consistent with the requirements of *NEPA*, *FHWA's Policy on Changes in Access to the Interstate System*, and all applicable *LADOTD Guidelines and EDSMs*. Stage 0 documentation including *Preliminary Scope and Budget and Environmental Checklists* was provided.

- Stage 0 Feasibility Study
- Data Collection
- NEPA Requirements
- HSM Predictive Methods
- Tiered Alternative Analysis
- Roadway Design
- ROW Impact Assessment
- Construction Cost Estimates
- Traffic and Safety Analysis
- Stage 0 Documentation

Firm name	BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS			Past Performance Evaluation Discipline(s)*	Planning, Road, Env
Project name	LA 429 Connector Stage 0 Feasibility Study			Firm responsibility (prime or sub?)	Prime
Project number	H.012311.1		Owner's name	Louisiana Department of Transportation and D	Pevelopment (LADOTD)
Project location	Ascension Parish, LA			Owner's Project Manager	Hong Zhang, PE,
					PTOE
Owner's address,	phone, email 1201 Capit	ol Access Road	, Room 605Z, Ba	ton Rouge, LA 70804.9245, 225 379 1421, Hong.Zh	ang@la.gov
Services commend	Services commenced by this firm (mm/yy) 03/19 Total consultant			contract cost (\$1,000's)	\$361
Services completed by this firm (mm/yy) 11/20 Cost of consults			Cost of consulta	nt services provided by this firm (\$1,000's)	\$361

Firm's Role: As a Task Order under Contract SP No. 4400005873, Buchart Horn prepared a **Stage 0 Feasibility Study** to evaluate **alignment alternatives** for a limited-access corridor (LA 429) in the vicinity of I-10, between LA 30, LA 73, and US 61 in Ascension Parish, LA. The purpose of the new LA 429 connector road is to create another route for motorists to travel from LA 30 to US 61, decreasing travel time along existing corridors.

Firm Members Involved: James Q. Dickerson III, John Mettille, Joseph F. Mingo



Proposed LA 429 Alignment and Interchange Location Alternative

Relevant Services

- Stage 0 Feasibility Study
- Data Collection
- Environmental Inventory
- Alternative Development
- Geometric Layouts / Analysis
- ROW Impact Assessment
- Construction Cost Estimates
- Public and Stakeholders
 Meetings
- Stage 0 Checklists
- Stage 0 Documentation

Project Scope: The project

Project Goals: The study

goal and objective was to

alternatives located in the

vicinity of I-10, between LA

evaluate limited access

corridor alignment

30, LA 73 and US 61 in

Ascension Parish, LA.

consisted of preparing a Stage O Feasibility Study & Environmental Inventory for the LADOTD. The scope consists of stakeholders and public meetings, site visits & data collection, phasing of alternative development for the corridor, Preliminary Scope and Budget and Environmental Checklists, and Opinion of Probable Cost to prepare the Stage O Report.

Several alternatives for the widening and reconstruction of LA 429 were be evaluated.

Firm name	ARCADIS			Past	Performance Evaluation Discipline(s)*	Road, Traffic	
Project name	Safety Design IDIQ - US 90 Ramps at LA 88			Firm	responsibility (prime or sub?)	Sub	
	Roundabouts						
Project number	H.011495 Owner's na			me	ne Louisiana Department of Transportation and Development		
Project location	New Iberia Parish, LA			Own	ner's Project Manager	Brent Domingue	
Owner's address, 1	phone, email 428 Hugh	Wallis Rd, Lafa	yette, LA 7050	8 / T:	337 262 6210 / E: christopher.domingue@	Pla.gov	
Services commenced by this firm (mm/yy) 11/16 Total consulta			ınt co	ntract cost (\$1,000's)	\$549		
Services completed by this firm (mm/yy) 05/20 Cost of consult			ltant s	services provided by this firm (\$1,000's)	\$504		

Firm members involved: David Fulks, Garret Keller, Buddy Porta, Ari Deitch

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.*

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

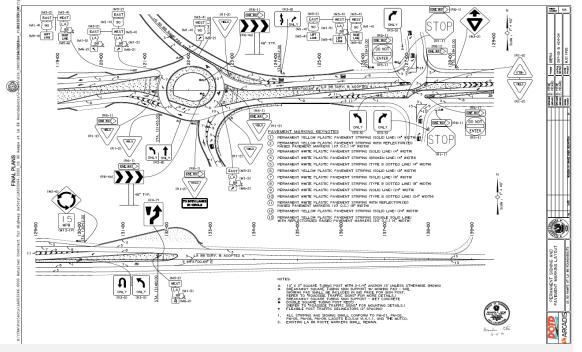
LADOTD Design Guidelines, Roadway Design Procedures and Details Manual and all applicable DOTD EDSMs, AASHTO and FHWA guidelines. The roundabouts were designed to accommodate a WB-67 design vehicle. Restricted crossing Uturn (RCUT) intersections were designed for the adjacent service roads to enhance 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.

Relevant Services

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



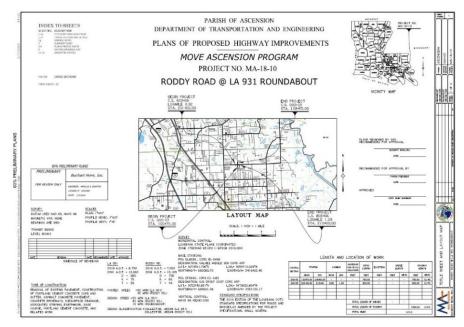
Roundabout design and signing plan at interchange ramps to enhance safety and operations

Firm name	BH BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS			Past Pe	erformance Evaluation Discipline(s)*	Planni	ing, Traffic, Road
Project name	LA 931 and Roddy Road	Roundabout			Firm responsibility (prime or sub?)		Prime
Project number	MA-18-10		Owner's nam	ne As	cension Parish		
Project location	Gonzales, LA				Owner's Project Manager		Kenny Matassa
Owner's address, 1	phone, email PO Box 239	92, Gonzales, L	A 70707, 225.4	50.1012	, kmatassa@apgov.us		
Services commend	ced by this firm (mm/yy)	07/17	Total consultar	nt contra	ct cost (\$1,000's)		\$629
Services complete	d by this firm (mm/yy)	02/22	Cost of consult	ant serv	ices provided by this firm (\$1,000's)		\$500

Firm's Role: BH was selected by Ascension Parish to provide *Road Design & Traffic Engineering services* for a period of five years (2017-2022) under the MoveAscension program. One of the projects assigned under this program was the intersection improvements and roundabout study/design for the intersection of LA 931 and Roddy Road. This intersection historically involved *high frequency and high severity crashes*.

Firm Members Involved: James Q. Dickerson III, Joseph F. Mingo, Cal Joy

LADOTD TEPR Compliant Traffic and Safety Study: 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*, cost-benefit analysis, traffic analysis, speed study, safety analysis) prior to initiating design services.



Roadway Design Services: BH provided design services for a new

Relevant Services

- Roadway Design
- LADOTD Minimum Design Guidelines
- TEPR Compliant Study
- Roundabout Report and Design
- Historical Crash Analysis
- Construction Cost Estimate
- Traffic and Safety Study
- Agency Coordination

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.

Firm name	digital engineering				Past Performance Evaluation Discipline(s)*	Planning, Road	
Project name	Local Road Safety Program – Plaquemines Parish Signing and			Firm responsibility (prime or sub?)	Prime		
	Striping Improvements and Design Plans						
Project number	H.011949		Owner's name	New C	Orleans Regional Planning Commission		
Project location	Plaquemines Parish, LA				Owner's Project Manager	Laura Riggs, P.E	
Owner's address,	phone, email PO Box 942	245, Baton Rou	ige, LA 90804; 225.3	379.114	3; laura.riggs@la.gov		
Services commenced by this firm (mm/yy) 08/19 Total cons			Total consultant co	Total consultant contract cost (\$1,000's)		\$71	
Services complete	ed by this firm (mm/yy)	05/21	Cost of consultant	services	provided by this firm (\$1,000's)	\$71	

Firm's Role: DE was selected by the LADOTD to develop the **Stage 0 feasibility study** and **design plans** for a project in Plaquemines Parish under the Local Road Safety Program (LRSP). This project seeks to **provide safe roadway and roadside conditions** for the public in an effort to **reduce vehicular crashes**. During the Feasibility Phase, DE met with the LPA and LRSP Project Manager to review the project goals, conduct a site visit, and prepare a project report that included a detailed project scope, cost estimates for engineering and construction, and a time schedule for project completion.



Key Personnel: Frank Liang, David LeBreton, Michael Flynn, Michael Cochran

DE completed the *feasibility study and the final design phase* for the installation of additional signage and striping in high *frequency crash areas* throughout the Parish. As part of the feasibility study, the LADOTD Crash3 program was utilized by DE

Relevant Services

- Low-Cost Safety Design
- Signing and Marking Design
- Final Design Plans
- Historical Crash Analysis
- Stakeholder/Agency Coord.
- Stage 0 Feasibility Study
- Construction Cost Estimates
- Stage 0 Documentation

to review the Parish's crash history, types of crashes, and locations. To determine what roads qualified for funding, the crash data from the last five years needed to be analyzed. Utilizing the crash data allowed problem areas to present themselves and enabled DE to focus on those areas to get the most value out of the funding for Plaquemines Parish and LADOTD. Crash data determined where the worst roads were in the Parish, and these roads were the focus of the low-cost safety improvements and countermeasures.

Examples of low-cost safety improvements included in this project are the

- Installation of additional signage in curves;
- Installation of raised reflectorized pavement markers;
- Edge line striping;
- Centerline striping;
- Installation of edge line and centerline rumble strips;
- School zone flashing beacon was installed near Belle Chasse High School.

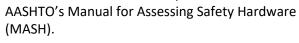
Firm name	digital engineering				Past Performance Evaluation Discipline(s)*	Planning, Road
Project name	Local Road Safety Program - St. Tammany Guardrail Stage 0			Firm responsibility (prime or sub?)	Prime	
	Feasibility Study and Design Plans					
Project number	H.012474 Owner's name Louisia			iana Department of Transportation and Development (LADOTD)		
Project location	St. Tammany Parish, LA				Owner's Project Manager	Laura Riggs, P.E.
Owner's address,	phone, email PO Box 942	245, Baton Rou	ige, LA 90804; 225.	379.114	3, laura.riggs@la.gov	
Services commenced by this firm (mm/yy) 03/17 Tot			Total consultant contract cost (\$1,000's)		\$85	
Services complet	ed by this firm (mm/yy)	11/18	Cost of consultant	services	provided by this firm (\$1,000's)	\$85

Firm's Role: The goal of this project was to *provide safe roadside conditions* for the public in an effort to protect errant drivers from striking roadside obstacles.

Key Personnel: Frank Liang, David LeBreton, Michael Cochran

Stage 0 Feasibility Study: During the Feasibility Phase, DE met with the LPA and LRSP 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.

Project Design: During design phase, DE developed plans to *remove non-compliant guardrails and dangerous guardrail end treatments at eight (8) bridge locations* throughout St. Tammany Parish and replaced with those which comply with the newest guardrail and end treatments conforming to LADOTD Standards and requirements outlined in



The final design plans were developed without a survey and the eight sites were field measured to place the design information into letter sized plans. This format allowed the design plans to be included in the construction proposal for *efficient bidding purposes*. DE assisted during letting and also provided Construction Engineering and Inspection (CE&I) services as well as ensured compliance with the contractor's contractual DBE and EEO requirements.

Best Practice: DE coordinated with LADOTD (District 62 Design and Bridge Design) and St. Tammany Parish (LPA) representatives in *addressing embankments and other roadside obstructions* which are found to be particularly dangerous for motorists.

Sites were reshaped or otherwise improved to protect drivers from striking the obstacle in the event that control of the vehicle is lost. There were areas beyond the shoulder that needed to be reconstructed to allow for the proper installation of guardrail. These roadside improvements will better allow for recovering of errant vehicles and *reduce the risk of rollover accidents and head-on impacts* with obstructions when control cannot be reclaimed.



Figure: Installation of LADOTD compliant guardrails

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- Low-Cost Safety Design
- Roadside Design Best Practice
- Guardrail Design
- Final Design Plans
- Stakeholder/Agency Coord.
- Stage 0 Feasibility Study
- Construction Cost Estimates
- Stage 0 Documentation

Firm name	digital engineering				Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	Safe Routes to School Program: New Orleans DPW			Firm responsibility (prime or sub?)	Prime	
	Sidewalk Project and Multi-Modal Safety Improvements					
Project number	H.009308 Owner's name New Or			Orleans Regional Planning Commission		
Project location	New Orleans, LA				Owner's Project Manager	Laura Riggs, P.E
Owner's address,	phone, email PO Box 942	245, Baton Roi	uge, LA 90804; 225.3	379.1143	3; laura.riggs@la.gov	
Services commenced by this firm (mm/yy) 11/17 To			Total consultant co	Total consultant contract cost (\$1,000's)		\$192
Services complete	ed by this firm (mm/yy)	Ongoing	Cost of consultant	services	provided by this firm (\$1,000's)	\$192

Firm's 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.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino, Michael Flynn, Michael Cochran

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 replacement 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:

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
- 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
Project name	Stage 0 Feasibility Study: Selected Corridors in Covington, LA				Firm responsibility (prime or sub?)	Prime
Project number	NA Owner's name New O			Orleans Regional Planning Commission		
Project location	Covington, LA				Owner's Project Manager	Jeff Roesel
Owner's address,	phone, email 10 Ve	terans Memorial Bo	oulevard, New Orlea	ns, LA 7	70124: 504.468.6621, jroesel@norpc.o	org
Services commen	ced by this firm (mm	yy) 10/18	Total consultant co	ntract c	ost (\$1,000's)	\$45
Services complete	ed by this firm (mm/y	y) 04/19	Cost of consultant s	services	provided by this firm (\$1,000's)	\$35.5

Firm's Role: DE provided engineering services for the *Stage 0 Feasibility Study* to identify safety improvements along selected corridors in Covington, LA, with a *focus on pedestrian and bicycle modes*.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino

Project Background: LADOTD recently developed parish safety profiles that are preliminary data packages that help to focus efforts at the local level through the SHSP Regional Safety Coalition, as coordinated through the Metropolitan Planning Organizations throughout the state. The Local Road Safety Program (LRSP) team envisions the Metropolitan Planning Organizations to help facilitate local road safety plan development that starts with the parish safety profiles, stakeholder outreach and coordination, and subsequent project application submittals. This proposed process will provide sustainability in terms of institutionalizing safety in the planning process and consistency in Local

C.S. 000-52
3.7 THUR STREET

C.S. 000-52
1.9th AVENUE

C.S. 000-52
1.1th AVENUE

C.S. 000-52
1.1th AVENUE

C.S. 000-52
1.1th AVENUE

Figure: Map of Selected Corridors in Covington, LA where safety improvements are proposed

Public Agency involvement

Project Scope: The purpose of this study was to identify improvements along the six (6) corridors to enhance safety and operational efficiency for all users of the

roadways with a focus on bike and pedestrian access. DE, as prime consultant, provided conceptual design and cost estimates for geometric, signage/striping, and other proposed physical improvements consistent with the latest NORPC/ LADOTD Access Management and Complete Streets policies. The study included the following corridors:

- 1. 32nd Avenue
- 2. N. Tyler Street
- 3. 19th Avenue
- 4. 11th Avenue
- 5. N. Florida Street
- 6. S. Jefferson Avenue

Stage 0 Documentation: The final Study product was a Stage 0 Feasibility Study which included the above and also the LADOTD Preliminary Scope and Budget Checklist and LADOTD Stage 0 Environmental Checklist.

- Stage 0 Feasibility Study
- Pedestrian and Bicycle Improvements
- Access Management
- Complete Streets
- Geometric Layouts
- Construction Cost Estimates
- Stakeholder/Agency Coord.
- Stage 0 Documentation



Figure: N. Tyler Street Existing Condition

Firm name	digital engineering				Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road
Project name	Stage 0 Feasibility Study and Design - Audubon Ave Roundabout			Firm responsibility (prime or sub?)	Prime	
Project number	H.012479		Owner's name	Louisia	ana Department of Transportation an	d Development (LADOTD)
Project location	Thibodaux, LA				Owner's Project Manager	Laura Riggs, P.E.
Owner's address,	phone, email PO Box 942	45, Baton Rou	ige, LA 90804; 225.3	79.114	3; laura.riggs@la.gov	
Services commen	aced by this firm (mm/yy)	06/16	Total consultant co	ntract c	ost (\$1,000's)	\$85
Services complete	ed by this firm (mm/yy)	10/18	Cost of consultant s	services	provided by this firm (\$1,000's)	\$71

Firm's Role: DE provided engineering services for the Stage O Feasibility Study and design of a new mini-roundabout at the intersection of Audubon Avenue and Ardoyne Drive in Thibodaux on Nicholls State University's campus. The goal of the installation of this mini-roundabout was to improve safety by eliminating the existing 4-legged approach's unconventional 3-way stop controlled intersection and reduce speeding and congestion at this intersection.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino, Michael Cochran

Stage O Feasibility Study: During the Feasibility Phase, DE met with the LPA and LRSP Project Manager to review the project goals, conduct a site visit, and prepare a project report that included a detailed project scope, cost estimates



Figure: Completed Mini-Roundabout, the first in the state of Louisiana

for engineering and construction, and a time schedule for project completion. Traffic and Accident Data was also investigated as part of this Study.

Project Design Scope: From the Stage 0

Feasibility Report, the design project scope was determined to provide for the design of a 15-foot-wide travel lane roundabout circle and a 50-foot diameter island in the center of the roundabout. The median island included a traversable curb and apron to allow heavy vehicles to maneuver through the roundabout intersection. The design also included entry curves and exit curves from all four directions at the intersection, with incorporation of splitter islands. Because of the amount of daily pedestrians, the campus has, crosswalks were incorporated as they were essential for this intersection.

These crosswalks were placed at each leg along with the installation of ADA compliant handicapped curb ramps, and the installation of pertinent roadway signage and striping. All work was conducted in accordance with LADOTD standards and requirements and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).

Stakeholder Engagement: This project required extensive outreach and coordination with the City of Thibodaux and especially with Nicholls State University since Ardoyne Drive was owned by this entity. Ultimately, this project was bid and construction was completed in October 2018.

- Stage O Feasibility Study
- Low-Cost Safety Design
- **Traffic and Safety Analysis**
- **Geometric Layouts**
- Pedestrian and Bicycle Design
- **Construction Cost Estimates**
- Stakeholder/Agency Coord.
- Stage 0 Documentation

Firm name					Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	LA 39: West Judge Perez Drive Vehicular, Pedestrian,			Firm responsibility (prime or sub?)	Prime	
	and Bicycle Safety Enhancements					
Project number	NA Owner's name New O			Orleans Regional Planning Commission		
Project location	St. Bernard Parish, LA				Owner's Project Manager	Jeff Roesel
Owner's address,	phone, email 10 Veteran	s Memorial Bo	oulevard, New Orlea	ns, LA 7	0124, 504.468.6621, jroesel@norpc.c	org
Services commenced by this firm (mm/yy) 01/20 Total consultant contrac			ntract c	ost (\$1,000's)	\$50	
Services complet					provided by this firm (\$1,000's)	\$39

Firm's Role: The purpose of this project was to conduct 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 need for the study is a supplement to an emphasis area identified in the 2017 St. Bernard Parish Bikeway and Pedestrian Plan adopted by St. Bernard Parish Council on June 20, 2017.

Key Personnel: Frank Liang, David LeBreton, Michael Flynn, Michael Cochran

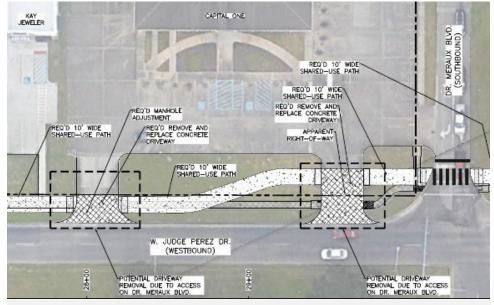


Figure: Proposed multi-modal safety improvements on W. Judge Perez Dr. in St. Bernard Parish

Best Practice: DE developed a project schedule and timeline that included four *project management committee meetings* throughout the project duration.

Data Collection: Project scope of work included a *comprehensive site*

Relevant Services

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

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. Parking lot inventory and capacity counts were collected along the corridor to review efficiency and driveway needs. 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.

Alternative Development: At the conclusion of this site investigation/data

collection effort, DE provided planning, and 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.

Stage 0 Documentation - 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.

Firm name	digital engineering				Past Performance Evaluation Discipline(s)*	Planning, Road	
Project name	Stage 0 Feasibility Study a	nd Design – Bro	oad Street & Read B	lvd	Firm responsibility (prime or sub?)	Prime	
	Pedestrian Intersection Improvements						
Project number	H.013094		Owner's name	Louisia	iana 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 942	245, Baton Rou	ige, LA 90804; 225.3	379.1143	3, laura.riggs@la.gov		
Services commenced by this firm (mm/yy) 09/17 Total			Total consultant co	Total consultant contract cost (\$1,000's)		\$255	
Services complete	ed by this firm (mm/yy)	02/18	Cost of consultant	services	provided by this firm (\$1,000's)	\$255	

Firm's 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.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino, Michael Flynn Michael Cochran

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.

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

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, Road
Project name	ŭ ŭ			Firm responsibility (prime or sub?)	Prime	
	Improvements – Stage 0 Feasibility Study and Design Plans					
Project number	H.006524 Owner's name Louisia			ana Department of Transportation and Development (LADOTD)		
Project location	Gretna, LA				Owner's Project Manager	Laura Riggs, P.E.
Owner's address,	phone, email PO Box 942	245, Baton Rou	ige, LA 90804; 225.	379.114	3, laura.riggs@la.gov	
Services commenced by this firm (mm/yy) 04/12 T			Total consultant contract cost (\$1,000's)		\$133	
Services complete	ed by this firm (mm/yy)	04/19	Cost of consultant	services	provided by this firm (\$1,000's)	\$133

Firm's Role: DE conducted a *Stage 0 Feasibility Study* and developed *design plans* for improvements in the vicinity of St. Anthony Elementary School, McDonogh #26 Elementary School, William Hart Elementary School, and Shirley Johnson/Gretna Park Elementary Schools in Gretna.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino, Michael Cochran



Figures: Implemented new sidewalk, crosswalk, ADA ramps and pedestrian enhancements



Stage 0 Feasibility Study: During the Feasibility Study Phase, DE met with the SRTS, SRTPP, and LPA 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.

Design Plans: The scope of the design included the *removal* and replacement of concrete sidewalks, crosswalk striping, and handicapped curb ramps to allow for safe pedestrian

access to these schools. The installation or replacement of relevant signage and school zone flashing beacons were also part of the project's scope of work.

and handicapped curb ramps to allow for *safe pedestrian*access to these schools. The installation or replacement of relevant *signage* and s

Engineering Support Services: DE also provided construction engineering and inspection services during construction in accordance with the LADOTD Construction Contract Administration Manual and in Site Manager and the project is now complete and successfully closed out. Other services included (but were not limited to) the following: scheduling and holding the pre-construction and construction progress meetings, addressing RFI's, reviewing and approving all project work diaries, coordinating utility adjustments, ensuring all sampling and tests are performed in accordance with the project's sampling plan, reviewing/negotiating and implementing plan changes, and preparing the final estimate package.

Relevant Services

- Low-Cost Safety Design
- ADA Design
- Signing and Marking Design
- Final Design Plans
- Stakeholder/Agency Coord.
- Stage 0 Feasibility Study
- Construction Cost Estimates
- Stage 0 Documentation
- Engineering Support Services

Due to the limited right of way available beyond the curb at the intersections, the majority of the project could not fit typical PED-01 handicapped *curb ramps* and meet *ADA compliance*. Therefore DE had to *special design nine different types of ramps* to retrofit to the existing conditions. This required additional multiple field measurements to ensure the ramps could be constructed and compliant.

Firm name				Past Performance Evaluation Discipline(s)*	Planning, Traffic, Road	
Project name	Stage 0 Feasibility Study and Design Plans - St. Tammany Signs and				Prime	
	Striping					
Project number	H.009460 Owner's name Louisia			ana Department of Transportation and Development (LADOTD)		
Project location	St. Tammany Parish, LA				Owner's Project Manager	Laura Riggs, P.E.
Owner's address,	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) 05/17 T			Total consultant co	ntract co	ost (\$1,000's)	\$107
Services completed by this firm (mm/yy) 12/18 C			Cost of consultant s	services	provided by this firm (\$1,000's)	\$107

Firm's Role: The goal of this project was to provide *safe roadway and roadside conditions* for the public in an effort to protect drivers from accidents by *improving existing signage and striping* and/or installing *new roadside signage, pavement striping, and raised pavement markers* at numerous locations in St. Tammany Parish. These locations had existing traffic control devices that were not in compliance with the Manual of Uniform Traffic Control Devices (MUTCD) such as insufficient signage, improper signage height, and deteriorated and/or missing pavement striping and markers.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino, Michael Cochran

Stage 0 Feasibility Study: During the *Feasibility Study Phase*, DE met with the LPA and LRSP 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. For 45 horizontal curves, DE evaluated the posted advisory speed by utilizing a Rieker digital ball bank indicator to collect

data. Upon completion of the *ball bank evaluation*, it was determined that the advisory speed needed to be lowered

Relevant Services

- Low-Cost Safety Design
- Signing and Marking Design
- Ball Bank Study
- Final Design Plans
- Stakeholder/Agency Coord.
- Stage 0 Feasibility Study
- Construction Cost Estimates
- Stage 0 Documentation



Design Plans: DE then designed and developed plans to provide *new double yellow striping* and *raised reflectorized pavement markers, outer lane edge striping, advisory speed plaques*, and *directional advisory signage* at all curve locations. The final design plans were developed without a survey and the sites were field measured to place the design information into letter sized plans. This format allowed the design plans to be included in the construction proposal for efficient bidding purposes. DE also provided technical assistance in the letting and construction phases of this project.

Project Results: In total, an estimated *35 miles of pavement striping* and an estimated *650 new signs* were installed over 23 locations in this project. Intersections also received upgrades such as new signage forewarning of stops as well as new stop bars, new stop signs with advisory plaques to indicate cross traffic movements, new pavement markings indicating lane usage and delineation, and lane edge stripes. *All new signs and striping are in accordance with LADOTD and the MUTCD requirements*.

Firm name					Past Performance Evaluation Discipline(s)*	Planning, Road
Project name	Stage 0 Feasibility Study a	nd Design – Bo	otlegger Road Sidew	alks	Firm responsibility (prime or sub?)	Prime
Project number	H.013082	Owner's name	Louisia	na Department of Transportation and Development (LADC		
Project location	St. Tammany Parish, LA				Owner's Project Manager	Laura Riggs, P.E.
Owner's address,	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 co	ntract c	ost (\$1,000's)	\$89
Services completed by this firm (mm/yy) 09/21 C			Cost of consultant s	services	provided by this firm (\$1,000's)	\$89

Firm's Role: DE provided engineering services for the *Stage O Feasibility Study and design* of sidewalks along Bootlegger Road to *enhance pedestrian mobility and safety.* This project seeks to decrease the number of pedestrian and automobile accidents on Bootlegger Road (formerly LA 1085) in St. Tammany Parish.

Key Personnel: Frank Liang, David LeBreton, Taylor Marino, Michael Cochran



Figure: Proposed Sidewalk Location

Stage 0 Feasibility Study:

The Stage 0 Feasibility Study reviewed the alternatives of a 6-foot-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/path will *connect neighborhoods to the existing park and school,* and is part of a phasing plan that will ultimately connect LA1077 to Ochsner Boulevard.

Relevant Services

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

Ultimately, the north sidewalk was chosen as the feasibility study determined the south option not constructible within the project budget due to drainage constraints and Right-of-Way issues.

Project Design:

The design project includes a 4,660 foot long by 6-foot-wide concrete sidewalk constructed on the north side of Bootlegger Road near Turnpike Road (LA 1077) to an existing entrance into the Del Sol neighborhood. Five asphalt turnouts/driveways exist along this route were removed and replaced to meet ADA requirements.

Handicapped curb ramps were placed at the Bootlegger Road crossing near Coquille. This concrete walk was placed within the existing Right-of-Way. The sidewalk was placed along the edge of the existing drainage swale with an embankment toe where possible, and portions of the project required the closing in of the existing ditch along the roadway and replacing with 15" to 18" subsurface drainage pipe.



Section 18

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



People

546 Combined Years of Staff Experience

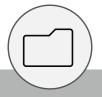


Performance

Top Performance ratings:

Stage O/Feasibility: **4.5/5**Traffic (Safety & Traffic): **4.6/5**

Roadway: **3.8/5**



Projects

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

Over **30** low-cost safety design projects in the last 20 years

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 LADOTD safety study applications and Highway Safety

Manual methods 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 for roads and intersections, Road Safety Assessments (RSAs), and safety effectiveness evaluations. Our Team has completed designs for over 30 low-cost safety improvement projects across the state.

Our past project experience has provided us the opportunity 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). This experience enables us to apply our understanding of local needs to develop context sensitive solutions through safety feasibility study and design projects.

Ari Deitch will be the Project Manager for the Arcadis Team and will be supported by our multidisciplinary consultant team to provide high quality deliverables on schedule. The Arcadis Team includes expert subconsultants: *Buchart Horn* will provide support for roadway, planning, and environmental; *Digital Engineering* for low-cost safety design, and *Grey Engineering* for safety and planning.

The Arcadis Team's deep bench of experienced professionals provides redundancies in all aspects of this contract. In addition to the team members presented in this proposal, the Arcadis Team includes additional local and regional resources that can be utilized to *deliver multiple task orders simultaneously under this IDIQ* while meeting project schedules and managing overall team workload.



PROJECT SCOPING

A comprehensive, clearly defined scope of work is imperative to the successful and timely completion of task orders. Upon receipt of a task order and initial scope, the Arcadis Project Manager (PM) will request a meeting with LADOTD, District staff, LPA, and other

project stakeholders to discuss the project and gain a firm understanding of project background and goals. We will conduct preliminary desktop reviews of existing conditions to provide recommendations on specific data and scope elements. This helps to obtain a mutual understanding of tasks and deliverables and minimizes the potential for supplemental agreements down the road.

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.*

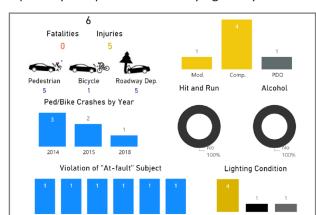


STAGE 0 FEASIBILITY STUDIES

Stage 0 studies conducted under this IDIQ will focus on identifying and addressing roadway safety issues for all transportation modes. Understanding the project background is a critical first step to defining the purpose and need of the project.

Data Gathering - Arcadis will gather engineering data necessary to conduct the study including crash and volume data, as-builts, utility information, landuse, previous studies, design criteria, etc. Site visits will also be conducted to validate engineering data and observe safety and operational conditions.

Safety Needs Assessment - 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. The project team will compile



and analyze crash data from the latest three-to-five LADOTD-approved years. The Arcadis Team is highly experienced with Highway Safety Manual (HSM) methodologies and network screening tools such as CAT Scan to identify historical crash patterns and Level of Safety Service (LOSS). Arcadis develops custom,

interactive safety dashboards to 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.

Identify / Evaluate Reasonable Alternatives 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 challenges 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. Alternatives that best address project needs while minimizing impacts will be selected for Tier 2.

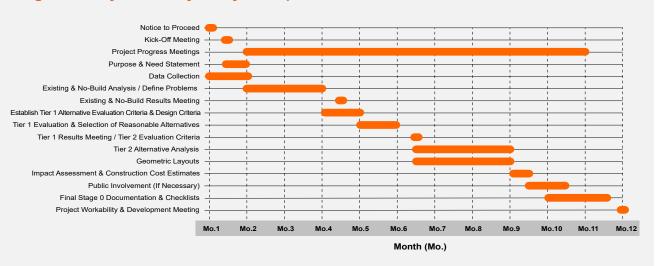
Tier 2 Analysis will involve a more in-depth evaluation and comparison of selected alternatives and will typically include the following:

- quantification of safety and operational benefits;
- · geometric layouts of alternatives;
- identification of ROW and utility impacts; and
- high-level construction cost estimates.

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

Geometric layouts will be developed for proposed alternatives 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. *The Arcadis Team's primary goal is to offer*

Stage 0: Safety Feasibility Study - Sample Task Order Schedule



alternatives that meet the project purpose and need while providing costeffective context sensitive solutions that minimize impacts to environmental resources.

Stage 0 Documentation - The project purpose and need statement, study methodology, list of alternatives considered, and results from the alternatives analysis and TEPR compliant study will be documented in a Stage 0 Feasibility Report. The report will provide the basis and background for the responses recorded on the *Preliminary Scope and Budget Checklist and Environmental Checklist, compliant with DOTD's Stage 0 Manual.*



ROAD SAFETY ASSESSMENTS

Road Safety Assessments (RSAs) will be conducted by a *multi-disciplinary / multi-agency team* to report potential road safety issues and identify opportunities for safety improvements. Road safety issues could be anything that a member of the RSA team

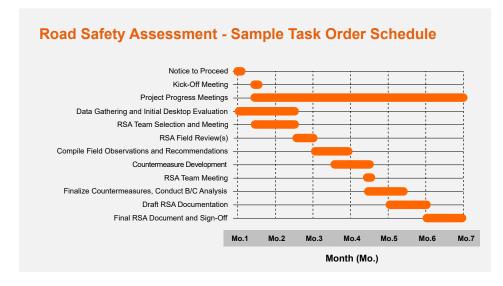
perceives as a safety concern during the field review.

Data Gathering - An initial desktop review of the RSA location and available data will be conducted to understand why the location was selected and 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 multidisciplinary RSA team, which typically includes LADOTD HQ and District staff, LPA, FHWA, and local police. Additional stakeholders such as transit agencies should also be included as appropriate. A meeting 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. Similarly, it may be appropriate to document the experience of multiple transportation modes at the site. Walking or biking though the site may provide insights into potential safety issues that are not as apparent when driving through the site or observing from a distance.

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 are typically segmented into short-term and long-term plans to fast-track implementation of low-cost

improvements that provide significant benefits. Improvements that are more costly or require further study are typically grouped into long-term plans. In addition to engineering solutions, countermeasures may include education and enforcement approaches to improving safety. Once the RSA team agrees with documented issues and solutions, Arcadis will quantify project benefits and costs associated with proposed countermeasures.

RSA Documentation - RSA findings and recommendations will be documented in a comprehensive report with written acknowledgement from key project stakeholders and roadway owners.



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

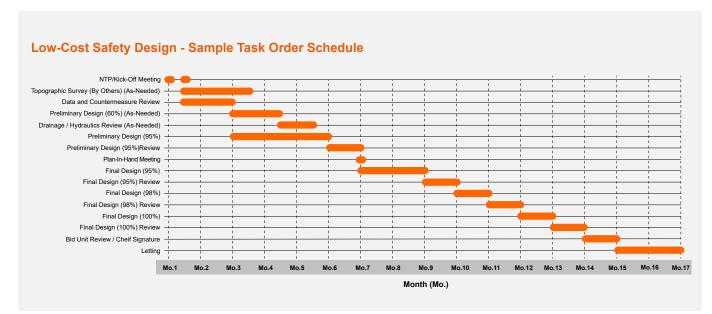
upgrades, guard rail, road diets, restrictive intersections, access management, surface treatments, horizontal and vertical curvature improvements, etc. Based on the nature of the project, varying degrees of survey may be needed, with some projects requiring partial or no survey. During project scoping, the Arcadis Team will coordinate with LADOTD to identify the level of survey that is needed based on the unique needs of each project. It is assumed that all survey services will be provided by others under this IDIQ.

Context Sensitive Design - Arcadis will review project background information and coordinate with LADOTD, LPAs, and local stakeholders to develop context sensitive solutions that provide seamless integration with the local community. Prior to initiating design tasks, Arcadis will review proposed improvements and identify opportunities to implement additional safety countermeasures that are effective (based on crash modification factors or safety performance functions) while staying within the available project budget.

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:

- 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 design 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.



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 current 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

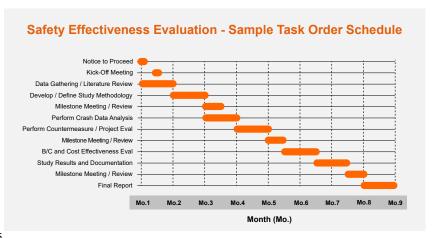
will include traffic volume data, project duration and cost, monetized state specific values of crash severities, and literature review of best practices.

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.





Sections 19-23

BENEFIT COST ANALYSIS RESULTS FOR BATON ROUGE PEDESTRIAN AND **BICYCLE ROAD SAFETY ASSESSMENTS.**

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	

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.



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.	-	-	-

Short-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





19. Workload:

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

Firm(s)	Past Performance Evaluation	State project number	Project name	Remaining unpaid
A 1:	Discipline(s) *	11.044220.2	140 6 41 (8) 1 4 8 31)	balance**
Arcadis	Road	H.011328.2	I-49 South (Ricohoc to Berwick)	\$354,111
Arcadis	ITS	H.013868.5	ITS Program Management and Operations (2021)	\$249,152
		H.013868.6 (A)	ITS Routine Maintenance Engineering and Inspection (ME&I) (2021)	\$140,517
		H.013868.6 (B)	ITS Responsive/Emergency Maintenance Engineering and Inspection (ME&I) (2021)	\$58,158
		NI/A	, , ,	¢24.500
		N/A	PO No. 2000588785 Scott Tower Cable and Grounding Repair, PO No. 2000604740	\$24,500
			US61@Coursey/Bluebonnet CCTV Upgrade, PO No. 2000609725 I-10 @ Louisiana	
			Ave CCTV & Elec Repair, PO No. 2000610683 I-110 @ US61 Mini-Split AC Install,	
		H.004100.5	PO No. 2000620009 LA 3040 @ Hollywood Rd Elec Serv. Install I-10: LA 415 to Essen Lane on I-10 and I-12	¢274.020
A1: -	CERT/OV			\$274,030
Arcadis	CE&I/OV	H.011220.6-1	I-10 CBD2 Carrollton-Lafitte Ave and Supplement No. 1	\$120,747
		H.012876.6	US 90Z (I-10 Magnolia Street) Supplement No. 1	\$39,725
		H.013710.6	I-10: US 61 to Laplace ITS Deployment	\$546,289
		H.012901.6,	US90Z (Magnolia St. – Bodenger Blvd.)	\$339,654
	D : 1	H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	d1 201 611
Arcadis	Bridge	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	\$1,301,644
Arcadis	Traffic	H.004100.5	I-10: LA 415 to Essen Lane on I-10 and I-12	\$707,912
		H.011328.2	I-49 South (Ricohoc to Berwick)	\$176,056
		H.003370	I-220/I-20 Interchange IMP & BAFP Access Design Build	\$15,000
		H.005121	LA 1/LA 415 Connector	\$111,349
		H.972419.1	SHSP Update and Regional SHSP Marketing/Advertising Support	\$43,378
		H.012018.6	Adaptive Traffic Signal Design and Implementation	\$12,608
		H.014305.1	US 61: Cardinal Drive to Bert Street	\$25,330
		H.013322.1	LA 3040 Feasibility Study	\$80,000
Arcadis	Environmental	H.009932	US 80 Widening: Vancil Road to Well Road Environmental Assessment	\$5,343
		H.002397.2	LA 16 (Pete's Hwy) Interstate 12 Interchange Route	\$20,109
		H.011328.2	I-49 South (Ricohoc to Berwick)	\$830,877
		4400019338	Rural Bridge Replacement Initiative Phase II – Multiple State Project Numbers – Districts 02, 03, 07, 61, and 62	\$532,942

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
Buchart Horn		H005257, FAP	Houma-Thibodaux to I-10 Corridor Environmental Impact Statement	\$3,284
	Environmental	9902(518)		
Buchart Horn	Environmental	H.009153.2,	US 84 Improvements	\$3,000
		FAP H009153		
Buchart Horn	Other	H.010319.5	I-110 Reconstruction from North Street-Plank Road	\$66,358
Buchart Horn	CE&I/OV	H.012422.6	I-110 at Terrace Avenue Ramp Modification CA Services	\$3,686
Buchart Horn	CERI/OV	H.012874.6	I-55 at LA 22 Interchange New Lighting CA Services	\$31,993
Buchart Horn	Traffia (Cafatri)	H.013322	LA 3040 Corridor Improvements Study	\$96,346
Buchart Horn	Traffic (Safety)	H.041305.1	US 61: Cardinal Drive to Bert Street	\$70,000
Buchart Horn		H.010616.5	New I-20 Overpass over LA 544 Lighting	\$58,546
Buchart Horn	Other	H.014302.5	US 165 Roadway Lighting	\$148,460
Buchart Horn		H.010319.5	I-110 Lighting from North Street to Plank Road	\$52,538

Firm(s)	Past Performance Evaluation Discipline(s) *	State project number	Project name	Remaining unpaid balance**
Digital Engineering		H.013090.5-1	Gretna Downtown Intersection Improvements, Gretna, LA	\$14,733
Digital Engineering		H.013094.5	Broad Street-Read Boulevard Pedestrian Improvements, New Orleans, LA	\$1,405
Digital Engineering		H.011196.5	Lake Charles SRTS Project - Barbe Elementary, Lake Charles, LA	\$88,650
Digital Engineering	Road	H.013083.5	Jefferson Island Sidewalks, Iberia Parish, LA	\$77,575
Digital Engineering		H.013789.5	Curve Signing & Striping, Evangeline Parish, LA	\$40,680
Digital Engineering		H.013772.5	Curve Signing & Striping, Acadia Parish, LA	\$53,495

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

(Add rows as needed)

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

20. Certifications/Licenses:

STAFF CERTIFICATION CHART SUMMARY				
Names	Relevant Certification			
ARCADIS STAFF				
Akhil Chauhan, PE, PTOE, PTP, PMP	Professional Engineer – LA / PE.33703 / 09-30-2022 Professional Traffic Operations Engineer – #2544 / Exp. 11/2023 Professional Transportation Planner – #246 / Exp. 12/2021 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 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 SIDRA Intersection Roundabout Analysis Workshop Roundabout Design Workshop			
Kester Hollier, PE, PTOE	Professional Engineer – LA / PE.34304 / 03-31-2023 Professional Traffic Operations Engineer – #3928 / Exp. 11/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Technician – LA State Specific ATSSA Traffic Control Supervisor Refresher – LA State Specific			
David Fulks, PE	Professional Engineer – LA / PE. 30151 / 09-30-2022 Highway Safety Manual Workshop Certificate			
Jose L. Rodriguez, PE	Professional Engineer – LA / PE.30492 / 03-31-2023 ATSSA Traffic Control Supervisor Refresher – LA State Specific			
Ari Deitch, PE, PTOE, PTP, RSP	Professional Engineer – LA / PE.41842 / 03-31-2022 Road Safety Professional – #37 / Exp.12/2024 Professional Traffic Operations Engineer – #4346 / Exp. 11/2023 Professional Transportation Planner – #690 / Exp. 07/2022 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 LA Transportation Research Center – Highway Safety Manual Workshop FHWA-NHI-133121 – Traffic Signal Design and Operation ATSSA Traffic Control Technician – LA State Specific ATSSA Traffic Control Supervisor – LA State Specific			
Thomas Montz, PE, PTOE, PTP	Professional Engineer – LA / PE.39128 / 09-30-2022 Professional Traffic Operations Engineer – #4093 / 07/2022 Professional Transportation Planner – #599 / Exp. 12/2024 Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 FHWA-NTI-133078 – Access Management, Location and Design FHWA-NHI Course No. 380032A – Roadside Safety Design FHWA-NHI 380100 – Using IHSDM Highway Capacity Analysis Designing Streets for Pedestrians & Bicyclists Highway Safety Manual Workshop State and Local Road Crash Analysis Workshop SIDRA Intersection Roundabout Analysis Workshop Roundabout Design Workshop ATSSA Traffic Control Technician – LA State Specific ATSSA Traffic Control Supervisor – LA State Specific			

	Treffic Engineering Applyais Process 9 Depart Medules 1 2 9 2
Greg Badon	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
	FHWA-NHI-142073 – Putting Policy Into Practice
	FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process
Jason Morrell, PWS	Professional Wetland Scientist - #2319 / Exp. 04/2023
	FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process
	FHWA-NHI-142047 Water Quality Management of Highway Runoff
Jose M. Rodriguez, RSP	Road Safety Professional – #160 / 05/2022
	CMF Certificate – Seeing the Value: Using CMFs to Calculate the benefits of
	Safety Improvements
Justin M. Maderia, PE, PTOE, PTP	Professional Traffic Operations Engineer – #3455 / 07/2024
	Professional Transportation Planner – #604 / Exp. 07/2023
	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Max Aguirre, PhD, PE, RSP	Road Safety Professional – #636 / Exp. 08/2024
	Road Safety Professional - #658 / Exp. 08/2024
Yuwen Hou, AICP, PTP, RSP	American Institute of Certified Planners – #029180 / Exp.12/2022
	Professional Transportation Planner - #640 / 08/2024
	Association of Pedestrian and Bicycle professionals – Designing Pedestrian
	Facilities for Accessibility
	Regional Crash Data Workshop
	Road Safety 365: A Safety Workshop for Local Governments
	Roadside Safety Assessment Train the Trainer Workshop
	Louisiana's Complete Streets Peer Exchange
	,
	State and Local Road Crash Analysis Workshop
	Local Road Safety Peer Exchange
Jody Peace, PE, PTOE, RSP	Road Safety Professional – #224 / 12/2024
	Professional Traffic Operations Engineer – #4029 / 12/2024
Deceleration Otal	FHWA-NHI-380100 Using IHSDM
Buchart Horn Staff	D (: LE : LA/DE 20070 / 00 20 0000
Ghouse Sundke, PE, PTOE	Professional Engineer – LA / PE.39678 / 09-30-2023
	Professional Traffic Operations Engineer – #3146 / 03/2023
D: 1/4 LOV #	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Digital Staff	D (: 15 : 14/DE 00007/00 00 0000
David LeBreton, PE, PTOE, PTP, RSP	Professional Engineer – LA / PE.32367 / 09-30-2022
	Road Safety Professional – 314 / Exp. 07/2022
	Professional Transportation Planner – #661 / Exp. 03/2019
	Professional Traffic Operations Engineer – #4093 / 11/2024
Frank Liang, PE, PTOE	Professional Traffic Operations Engineer – #3362 / 11/2024
	ATSSA Traffic Control Supervisor Refresher – LA State Specific
	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Taylor Marino, PE, PTOE	Professional Traffic Operations Engineer – #5026 / 4/2024
	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Michael Flynn, PE	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Grey Engineering	
April Renard, PE, PTOE, RSP	Road Safety Professional – 357 / Exp. 12/2022
7 p	Road Safety Professional Infrastructure– 23 / Exp. 12/2022
	Professional Traffic Operations Engineer – #3905 / 07/2024
	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
	1 Tame Engineering Function 1 100000 & Report Medicio 1, 2, & 0

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. Hofene





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LOUISIANA PROFESSIONAL

ENGINEERING & LAND SURVEYING BOARD

9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com

Mr. Akhilendra Singh Chauhan

License/Certificate Type - Number

Expiration Date

PE.0033703

09/30/2022

Status: Active

Fold Here

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

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

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.



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.



Mark A. Langley · President and Chief Executive Officer



PMP® Number 1444676

PMP® Original Grant Date 16 August 2011

PMP® Expiration Date 15 August 2014



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







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



Certificate of Completion

presented to

Akhil Chauhan

for completing the

Traffic Engineering Analysis Process & Report Module 2

June 11, 2018

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4



Certificate of Completion

Akhil Chauhan

for completing the

Traffic Engineering Analysis Process & Report Module 3

Location:

September 10, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3







Certificate of Training **Akhil Chauhan**

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

Louisiana Department of Transportation and Development

Date: May 9-10, 2012

Hours of Instruction: 12

Location: Baton Rouge, LA

Local Coordinator

1201 Bonney

Richard Barnaby, Director National Highway Institute



National Highway Institute



Certificate of Training Akhilendra Chauhan

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

LA DOTD/LTRC

Date:

October 9-11, 2012

Location: Baton Rouge, LA

Hours of Instruction: 18

Richard Barnaby, Director National Highway Institute



National Highway Institute



Certificate of Training Akhil Chauhan

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

LA DOTD/LTRC

January 6-8, 2015

Location: Baton Rouge, LA

Hours of Instruction: 18

Valerie Briggs, Director

National Highway Institute



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

Certificate of Training

Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Akhil Chauhan

HAS SATISFACTORILY COMPLETED 7 PROFESSIONAL DEVELOPMENT HOURS IN:

Louisiana's Complete Streets Peer Exchange





January 19-20, 2016

Baton Rouge, Louisiana Location

Certificate of Attendance

USING STATISTICS IN HIGHWAY SAFETY

PRESENTED BY

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

TO CERTIFY THAT

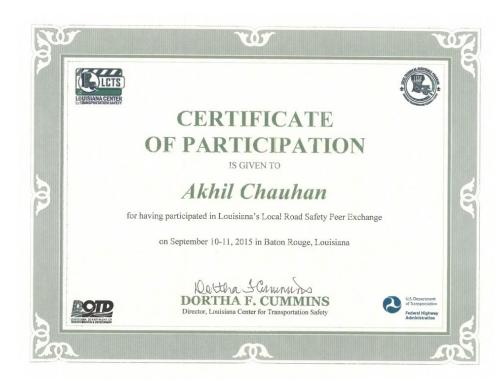
Akhil Chauhan

HAS SATISFACTORILY COMPLETED 6 HOURS OF TRAINING

Dr. Helmut Schneider

Director

Highway Safety Research Group





CERTIFICATE OF COURSE COMPLETION

This certifies that Akhilendra Chauhan has completed

SIDRA INTERSECTION 6 ROUNDABOUT ANALYSIS WORKSHOP

Hours of Instruction: 13

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

Howard Mchelloch

Howard McCulloch, NE ROUNDABOUTS



CERTIFICATE OF COURSE COMPLETION

This certifies that Akhil Chauhan has completed

ROUNDABOUT DESIGN WORKSHOP

Hours of Instruction: 13

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

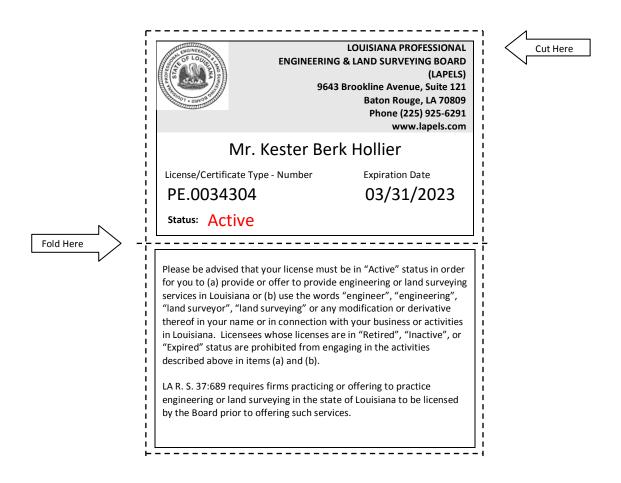
Howard Mchelloch

Howard McCulloch, P.E., NE ROUNDABOUTS



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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



Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

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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. Gertificate number 3928 issued in Washington, D.C., U.S. U. November 18, 2015

Kennth W askert



Executive Director

Certificate of Completion

presented to

Kester Hollier

for completing the

Traffic Engineering Analysis Process & Report Module 1

July 16, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 2



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



Certificate of Completion

presented to

Kester Hollier

for completing the

Traffic Engineering Analysis Process & Report Module 3

October 15, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3





Hereby recognizes that

Kester B Hollier

has attended Traffic Control Supervisor Refresher-LA State Specific

Training Course

9/13/2019 to 9/13/2019

Date

New Orleans, LA Location



Dessica Shugler

Training & Products Dept. Director

Kyn A. Wentz

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Kester Hollier

has attended

Traffic Control Technician-LA State Specific

12/11/2013

Date

New Orleans, LA

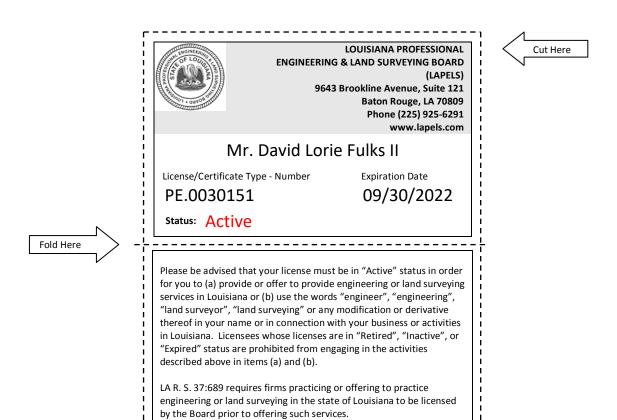
Location

Training Course

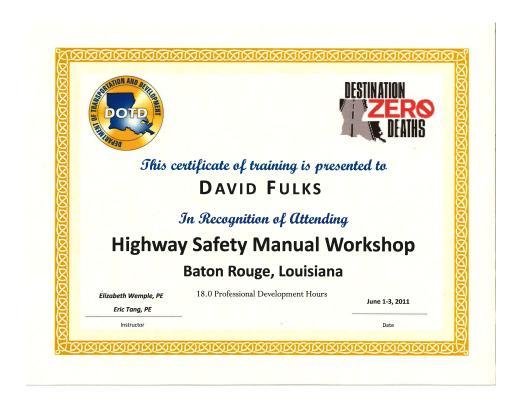


Wome M. Clark.
Training & Products Dept. Director

Ryn A. Wentz President, CEO



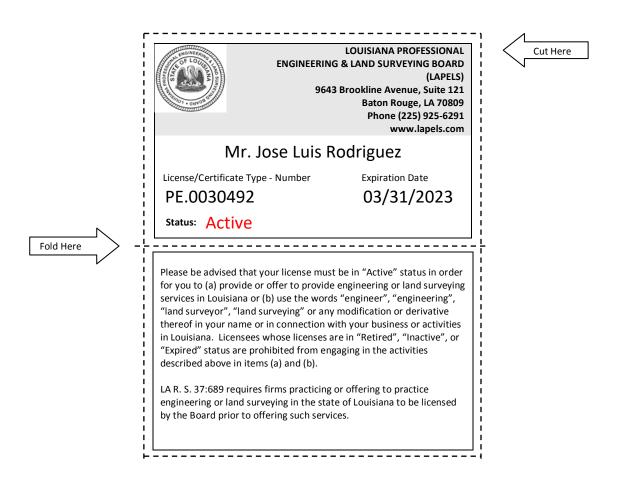
Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.





LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jose L Rodriguez

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

11/1/2019 to 11/1/2019

Date

Vice President of Member Services

New Orleans, LA Location

President, CEO

Alaen Tetachuer

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

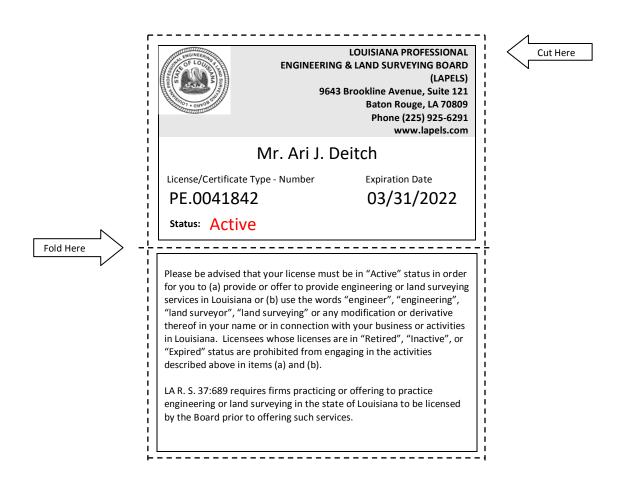


American Traffic Safety Services Association ATSSA.com



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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Disclaimer

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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



Transportation Professional Certification Board, Inc.

certifies that

Ari Jacob Deitch

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

Road Safety Professional

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

Certificate number 37 issued in Washington, DC, USA

12/21/2018

Diane le Nords & Diane W. Morabito Chair





Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report Module 1

Location:

July 16, 2018

Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2



Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report Module 2

July 23, 2018

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3



Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: Location:

October 15, 2018 Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 3



Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Beitch

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

Professional Traffic Operations Engineer

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

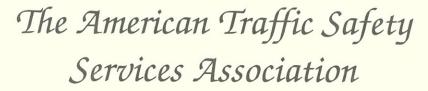
Gertificate number 4346 issued in Washington, DC, USA

11/20/17

(Kisharf f)). Michael Fl. Bark Chair



Jeffrey F. Paniati Executive Director



Hereby recognizes that

Ari Deitch

has attended
Traffic Control Technician-LA State Specific
Training Course

12/4/2018 to 12/4/2018

Baton Rouge, LA Location



Dessica Shughe

Training & Products Dept. Director

Kyn A. Wentz

President, CEO

The American Traffic Safety Services Association

Hereby recognizes that

Ari Deitch

has attended
Traffic Control Supervisor-LA State Specific

Training Course

12/5/2018 to 12/6/2018

Date

Baton Rouge, LA Location



Xessica Shuzler

Training & Products Dept. Director

Kyn A. Wentz

President, CEO





Certificate of Training

ARI DEITCH

has participated in

FHWA-NHI-133121 Traffic Signal Design and Operation

hosted by

LA DOTD/LTRC

Date:

August 16-17, 2017

Location:

Baton Rouge, LA

Instructor

Instructor

Hours of Instruction: 11

Local Coordinator

Valerie Briggs, Director



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)

> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com

Cut Here

Mr. Thomas Jude Montz Jr.

License/Certificate Type - Number

Expiration Date

PE.0039128

09/30/2022

Status: Active

Fold Here

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

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

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Transportation Professional Certification Board, Inc.

certifies that

Thomas Jude Montz, Ir.

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 4098 issued in Washington, DC, USA
7/18/2016

LAW Ushard Kenneth W. Ackeret Chair



Jeffrey F. Laniati Executive Director

Transportation Professional Certification Board, Inc.

certifies that

Thomas Jude Montz, Ir.

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. Cerțificate number 599 issued in Washington, DC, USA

3/15/17

Wichael DA

Chair



Executive Director

Certificate of Completion

presented to

Thomas Montz

for completing the

Traffic Engineering Analysis Process & Report Module 1

Location:

July 16, 2018

Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2



Certificate of Completion

presented to

Thomas Montz

for completing the

Traffic Engineering Analysis Process & Report Module 2

Location: Baton Rouge, Louisiana

July 23, 2018

Professional Development Hours (PDHs) Awarded: 3



Certificate of Completion

Thomas Montz

for completing the

Traffic Engineering Analysis Process & Report Module 3

Location: Baton Rouge, Louisiana

December 3, 2018

Professional Development Hours (PDHs) Awarded: 3





Hereby recognizes that

Thomas Montz

has attended
Traffic Control Technician-LA State Specific

Training Course

7/10/2019 to 7/10/2019

New Orleans, LA Location



Ressia Shughen

Training & Products Dept. Director

Ryn A. Wentz

President, CEO



Hereby recognizes that

Thomas Montz

has attended
Traffic Control Supervisor-LA State Specific

Training Course

7/11/2019 to 7/12/2019

New Orleans, LA Location



Dessia Stongen

Training & Products Dept. Director

Kyn A. West

President, CEO

Training Certificate

PRESENTED TO

Thomas Montz

for successful completion of a webinar presentation on Traffic Controller (Naztec TS1 & TS2) and Streetwise Training Course September 5, 2013



Michael Trueblood, PE, PTOE



LAPELS Continuing Professional Development Provider - CPD.0000281



National Highway Institute

Certificate of Training **Thomas Montz**

has participated in

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

LA DOTD/LTRC

Date:

February 5-7, 2013

Location: Baton Rouge, LA

Hours of Instruction: 18

12016

Richard Barnaby, Director



This certifies that

Thomas Montz

Attended and successfully completed the following training

Highway Capacity Analysis

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

Bill Sampson, Instructor University of Florida

Certificate of Completion

Thomas Montz

Has completed the professional development workshop

Designing Streets for Pedestrians & Bicyclists

April 17-19, 2013

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

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

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











Certificate of Training **Thomas Montz**

FHWA - NHI Course No. 380032A Roadside Safety Design (3 day)

LA DOTD/LTRC

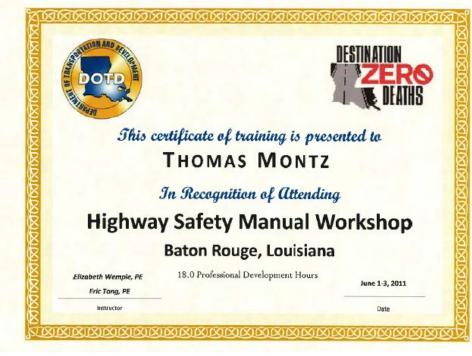
Date:

November 18-20, 2014

Hours of Instruction: 18

Location: Baton Rouge, LA

National Highway Institute









Certificate of Training

Louisiana Transportation Research Center

TO CERTIFY THAT

Thomas Montz

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS IN:

State & Local Road Crash Analysis Workshop



March 11, 2015

Baton Rouge, Louisiana



National Highway Institute Certificate of Training



Thomas Montz

has participated in

FHWA-NHI-380100 Using IHSDM

hosted by National Highway Institute

Location: Blended WCT Date: June 12, 2012

Hours of Instruction: 12 hours 1.2











Certificate of Training

GREGORY BADON

has participated in

FHWA-NHI-142073

Applying Section 4(f): Putting Policy into Practice
hosted by

LA DOTD/LTRC

Date:

Location:

September 26-27, 2017

Baton Rouge, LA

Hours of Instruction: 14

1 ton

Local Coordinator

Debouh Suring South

Instructor

Valerie Briggs, Director





Certificate of Training

GREGORY BADON

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date:

September 5-7, 2017

Hours of Instruction: 18

Location:

Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director

Certificate of Completion

presented to

Gregory Badon

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









Certificate of Completion

presented to

Gregory Badon

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

July Brown 61



Certificate of Completion

presented to

Gregory Badon

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





Society of Wetland Scientists Professional Certification Program, Inc

renews the designation

Professional Wetland Scientist

For

Jason E. Morrell

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

Due to recertify again by 4/1/2023.

Ben LePage, PWS President

Pat Frost, PWS Certification Renewal Chair





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

Location:

Baton Rouge, LA

Instructor

Instructor

Hours of Instruction:

18

Local Coordinator

Valerie Briggs, Director





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

Location:

Atlanta, GA

hstructor

Instructor

Hours of Instruction:

12 hours

Local Coordinator

Richard Barnaby, Director



CERTIFICATE OF TRAINING

This certifies that

JASON MORRELL

has completed wetland delineation training in the use of the

CORPS WETLAND DELINEATION MANUAL

Note: This training has been based in part on the U.S. Army Corps of Engineers Wetlands Manual, Technical Report Y-87-1 (1987 Manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.

Barbara J. Tiner, President

September 2002 Date

P.O. Box 288, Leverett, MA 01054 (413) 548-8866 www.wetlanded.com



Watershed Hydrology Consultants LLC Assessing and Advancing Watershed Management

Certificate of Training

This certifies that

Jason Morrell

has successfully completed the

Training Course on the Identification of Intermittent and Perennial Streams

May 21-23, 2012 Atlanta, Georgia

Classroom instruction and field instruction and practice were provided on: (1) The science of stream networks; hydrologic functions of streams and riparian zones; stream maps; and the geomorphologic, hydrologic, and biologic characteristics of headwaters streams; and (2) North Carolina Division of Water Quality, Methodology for Identification of Intermittent and Perennial Streams and Their Origins, Version 4.11, 2010.

Instruction provided by: Watershed Hydrology Consultants LLC, 1114 Upper Reach Drive, Wilmington, NC 28409; James D. Gregory; Principal/Senior Scientist and Lead Instructor

James D. Gregory, Ph.D., CPSS, PWS

Course Director

Transportation Professional Certification Board, Inc.

certifies that

Jose Manuel Rodriguez

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

Road Safety Professional

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

Certificate number 160 issued in Washington, DC, USA

12/21/2018







Certificate of Attendance

Jose M Rodriguez

has participated in the online webinar

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

conducted by:



Date: Dec. 6, 2016 Hours of instruction: 1.5

Daniel Carter, CMF Clearinghouse manager

Training Coordinator/Instructor

certifies that

Justin M. Madecia

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal. Certificate number 3455 issued in Washington, D.C., U.S. U. July 22, 2013

Timothy P. Harpst



Lemm W. Shelm Executive Director

certifies that

Justin Ml. 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 R. Lark

PTP
PROFESSIONAL
TRANSPORTATION
PLANNER
PLANNER
PLANNER
PLANNER

Jeffrey F. Laniati Executive Director

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









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



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



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

Hildrat X Snyder Deborah Snyder Chair



Jeffrey F. Laniati Executive Director

Yuwen Hou

Transportation Professional Certification Board, Inc.

Dumen Hou

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

Professional Transportation Planner

unless withdrawn by the Gertification Board and subject to the provisions for Certificate number 640 issued in Washington, DC, USM



APA



This certificate hereby qualifies

Yuwen Hou, AICP

Certified Planner Number: 029180

lames M. Drinan, JD Executive Director

American Institute of Certified Planners

the AICP Code of Ethics and Professional Conduct

as a member with all the benefits of a Certified Planner and a commitment to

Certificate of Completion

THE ASSOCIATION OF PEDESTRIAN AND **BICYCLE PROFESSIONALS**

presents this certificate to Yuwen Hou

Designing Pedestrian Facilities for Accessibility in recognition of attendance at the course

President

An educational program developed by the Association of Pedestrian and Bicycle Professionals in conjunction with the United States Access Board to provide an overview of the Americans with Disabilities Act guidelines and policies for the

Hosted by the New Orleans Regional Planning Commission on July 24 & 25, 2014 10.5 hours of continuing education credits earned

New Orleans Regional

Page 141 of 165

certifies that

Yuwen Hou

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

Road Safety Professional

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

Certificate number 658 issued in Washington, DC, USA

8/3/2021

Llevial X Snyder

Deborah Snyder

Chair



Jeffrey F. Laniati Executive Director

Certificate of Training

PRESENTED BY

Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Yuwen Hou

HAS SATISFACTORILY COMPLETED 3 PROFESSIONAL DEVELOPMENT HOURS IN:

Regional Crash Data Workshop





November 30th, 2016

Alexandria, Louisiana
Location

Certificate of Training

PRESENTED BY

Louisiana Local Technical Assistance Program

TO CERTIFY THAT

Yuwen Hou

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS IN:

Road Safety 365: A Safety Workshop for Local Governments





September 29th, 2016

Alexandria, Louisiana







Certificate of Training

PRESENTED BY

Louisiana Transportation Research Center

TO CERTIFY THAT

Yuwen Hou

HAS SATISFACTORILY COMPLETED 6 PROFESSIONAL DEVELOPMENT HOURS IN:

State & Local Road Crash Analysis Workshop



March 11, 2015

Baton Rouge, Louisiana Location



PRESENTED BY

Louisiana Local Technical
Assistance Program

TO CERTIFY THAT

Yuwen Hou

HAS SATISFACTORILY COMPLETED 7 PROFESSIONAL DEVELOPMENT HOURS IN:

Louisiana's Complete Streets Peer Exchange





January 19-20, 2016 Date

Baton Rouge, Louisiana Location

Certificate of Attendance presented to

Yuwen Hou

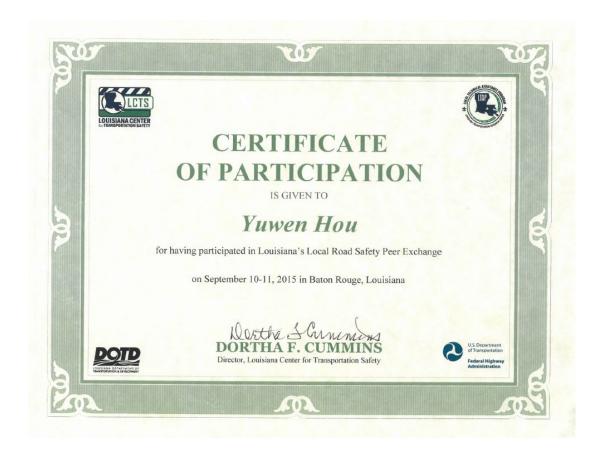
for attending the

Roadside Safety Assessment Train-the-Trainer Workshop 20 Professional Development Hours

February 23-25, 2016

Baton Rouge, Louisiana







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

March 29, 2016

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

Jody Carter Peace,

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

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

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

Jody Carter Peace

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

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

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

Sincerely,

Kenneth W. Ackeret, P.E., PTOE

LAW about

Chair, Transportation Professional Certification Board Inc.

Attachments



National Highway Institute Certificate of Training



Trainina Solutions for Transportation Excellenc

Jody Peace

has participated in

FHWA-NHI-380100 Using IHSDM

hosted by **National Highway Institute**

Location: Blended WCT

Date: June 12, 2012

Hours of Instruction: 12 hours

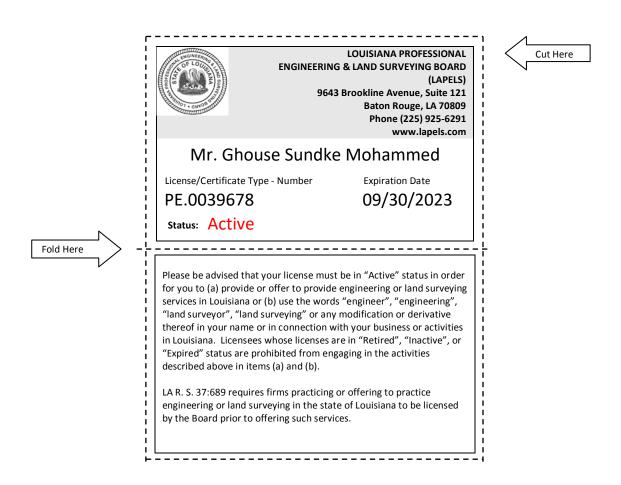
CEU: 1.2

Richard J. Barnaby, Director National Highway Institute



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

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certifies that

Chouse Sundke Mohammed

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 3146 issued in Washington, D.C., U.S.W.
March 24, 2014

Timothy P. Harpst



Executive Director

Ghouse Sundke

for completing the

Traffic Engineering Analysis Process & Report Module 1

July 16, 2018 Location: Baton Rouge, Louisiana Professional Development Hours (PDHs) Awarded: 2









Certificate of Completion

presented to

Ghouse Sundke

for completing the

Traffic Engineering Analysis Process & Report Module 2

July 23, 2018

Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3









Certificate of Completion

Ghouse Sundke

for completing the

Traffic Engineering Analysis Process & Report Module 3

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





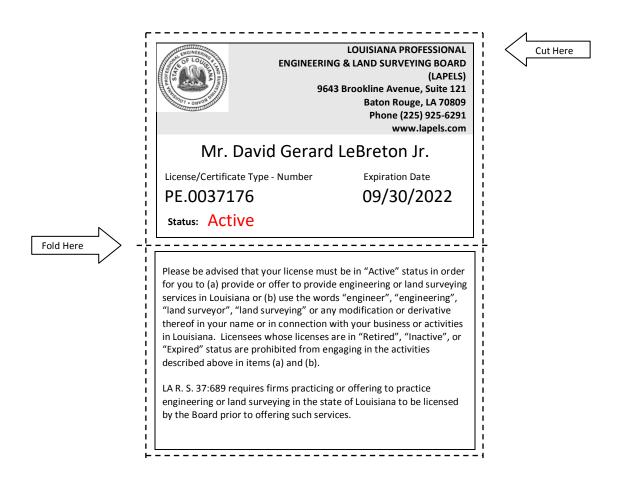






LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/15/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:



Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

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certifies that

David Gerard LeBreton Ir.

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



Jeffrey F. Laniati Executive Director

certifies that

David Gerard LeBreton, Ir.

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Gertification Board and subject to the provisions for renewal. Gertificate number 3333 issued in Washington, D.C., U.S.A. November 26, 2012

fteren D. Hofener Chair



Junua Wisheland Executive Director

certifies that

David Gerard LeBreton Ir.

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 661 issued in Washington, DC, USA

03|27|2019

Diane b. Nords. T Diane Morabito Chair



Jeffrey F. Laniati Executive Director

certifies that

Frank C. Liang

has mit all of the requirements established by the berlification 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









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 Launga SillDirector of Training

Alan Tetachur

President, CEO

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



nerican Traffic Safety Services Association ATSSA.com

presented to

Frank Liang

for completing the

Traffic Engineering Analysis Process & Report Module 1

October 7, 2020 Baton Rouge, Louisiana Location:

Professional Development Hours (PDHs) Awarded: 2.5



Certificate of Completion

presented to

Frank Liang

for completing the

Traffic Engineering Analysis Process & Report Module 2

October 7, 2020

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5



Certificate of Completion

presented to

Frank Liang

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development Hours (PDHs) Awarded: 3.5

certifies that

Taylor Christopher Marino

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 5026 issued in Washington, DC, USA

4|5|2021

Llura LL Snyder Deborah Snyder Chair





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

July Alderse Dut British Instructor Authorized Instructor

Authorized instructor



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

20 Professio

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor

Authorized Instructor

Authorized instructor



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



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



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



Certificate of Completion

presented t

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

Joly & Chris

Authorized Instructor

Authorized instructor



certifies that

April C. Renard

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

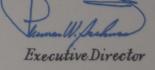
unless withdrawn by the Gertification Board and subject to the provisions for renewal.

Gertificate number 3905 issued in Washington, D.C., U.S. W.

July 21, 2015

Kemith W askert





certifies that

April Renard

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 357 issued in Washington, DC, USA

12/09/2019







certifies that

April C. Renard

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

Road Safety Professional Infrastructure

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

Gertificate number 23 issued in Washington, DC, USA

12/09/2019







presented to

April Renard

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: July1, 2019

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

John Brown Ld



Certificate of Completion

presented to

April Renard

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: July1, 2019

Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Authorized Instructor

July 1

John Journal



Certificate of Completion

presented to

April Renard

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: July 2, 2019

Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authbrized Instructor

Authorized Instructor

Authorized instructor



QA/QC Plan and/or Wor e advertisement require	s submission of a QA/QC pla	an or Work plan, inclu	de them here. Otherw	ise, leave this section b	lank.

22: Sub-consultant information

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

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
BUCHART HORN ENGINEERS · ARCHITECTS · PLANNERS	18163 East Petroleum Drive, Suite A Baton Rouge, LA 70809-6104	James Q. Dickerson, III, PE, PS jdickerson@bucharthorn.com	1 800 274 2224
digital engineering	527 West Esplanade Avenue Suite 200 Kenner, LA 70065	Alan Krouse, PE akrouse@deii.net	504 468 6129
Grey Engineering, LLC	7146 Landmor Drive Greenwell Springs, LA 70739	April Renard, PE, PTOE, RSP april@greyeng.com	225 773 6272

(Add rows as needed)

23. Location:

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



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