February 14, 2024

PROPOSAL

# *Engineering and Related Services*

## MILLS AVE & REES ST INTERSECTION IMP
## ROUTE: LA 93 & LA 328

Contract No. 4400028585
State Project No. H.014516.5
Federal Aid Project No. H014516


**Project Manager**
Vijay K. Kunada, PE, PTOE, PTP
vijay.kunada@neel-schaffer.com
337.232.6111

NEEL-SCHAFFER
Solutions you can build upon

Neel-Schaffer, Inc has project specific experience because we completed the LA 328 Stage 0 for the APC which included the impacts of the Mills Ave. Extension on the roadway network. We completed the following tasks:

- Completed traffic/safety analysis in conformance with with DOTD's TEPR
- Completed public and stakeholder outreach
- Developed horizontal alignments and layouts
- Determined impacts on the social, cultural and natural environment
- Cost estimates

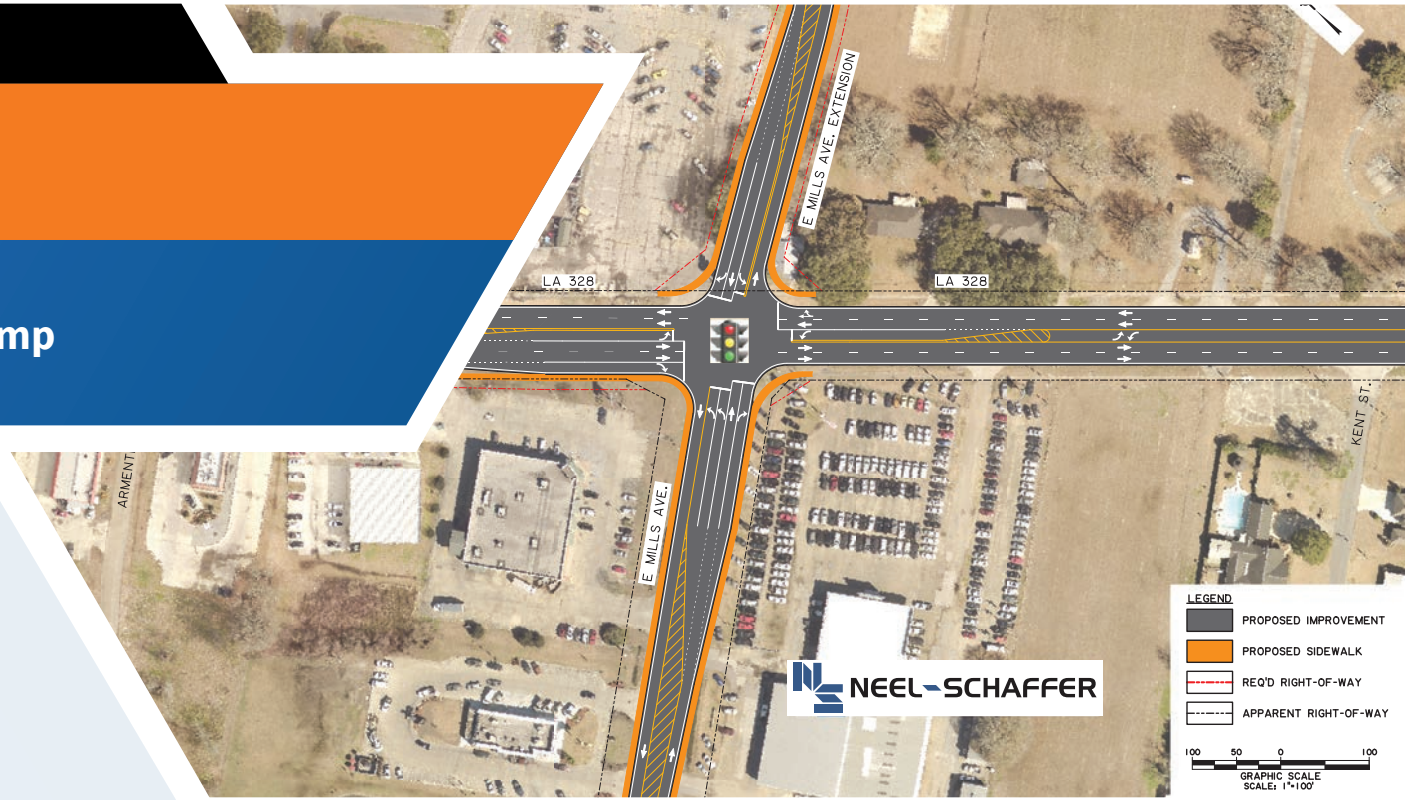

# *Sections* ***1-11***

Contract No. 4400028585

**Mills Ave & Rees St Intersection Imp**

**Route: LA 93 & LA 328**

NSI has completed preliminary analysis for the geometry of signalized alternatives for both with and without the Mills Ave extension. The results are shown to the right.



# DOTD FORM: 24-102

## PROPOSAL TO PROVIDE CONSULTANT SERVICES

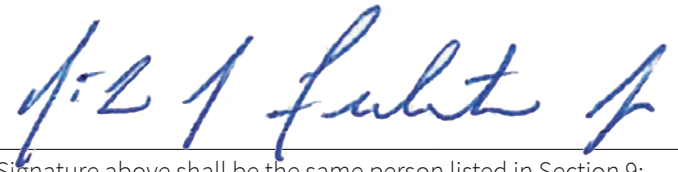
(Revised January 1, 2023)

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

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

| | |
|---|---|
| 1. **Contract Name** as shown in the advertisement | **Mills Ave & Rees St Intersection Imp**<br>**Route: LA 93 & LA 328**<br>St. Martin Parish |
| 2. **Contract Number(s)** as shown in the advertisement | **4400028585** |
| 3. **State Project Number(s)**, if shown in the advertisement | **H.014516.5** |
| 4. **Prime consultant name** (name must match as registered with the Louisiana Secretary of State where such registration is required by law) | **Neel-Schaffer, Inc.** |
| 5. **Prime consultant license number** (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is re-quired under Louisiana law) | **EF.0001372** |
| 6. **Prime consultant mailing address** | 10000 Perkins Rowe, Suite G360<br>Baton Rouge, LA 70810 |
| 7. **Prime consultant physical address** (existing or to be established, if location is used as an evaluation criteria) | 10000 Perkins Rowe, Suite G360<br>Baton Rouge, LA 70810 |
| 8. **Name, title, phone number, and email address of prime consultant's contract point of contact** | **Vijay K. Kunada, PE, PTOE, PTP**<br>*Senior Vice President / Office Manager*<br>vijay.kunada@neel-schaffer.com<br>337.232.6111 |
| 9. **Name, title, phone number, and email address of the official with signing authority for this proposal** | **Nick Ferlito, PE, PTOE**<br>*Senior Vice President / Louisiana Area Manager*<br>nick.ferlito@neel-schaffer.com<br>225.924.0235 |

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

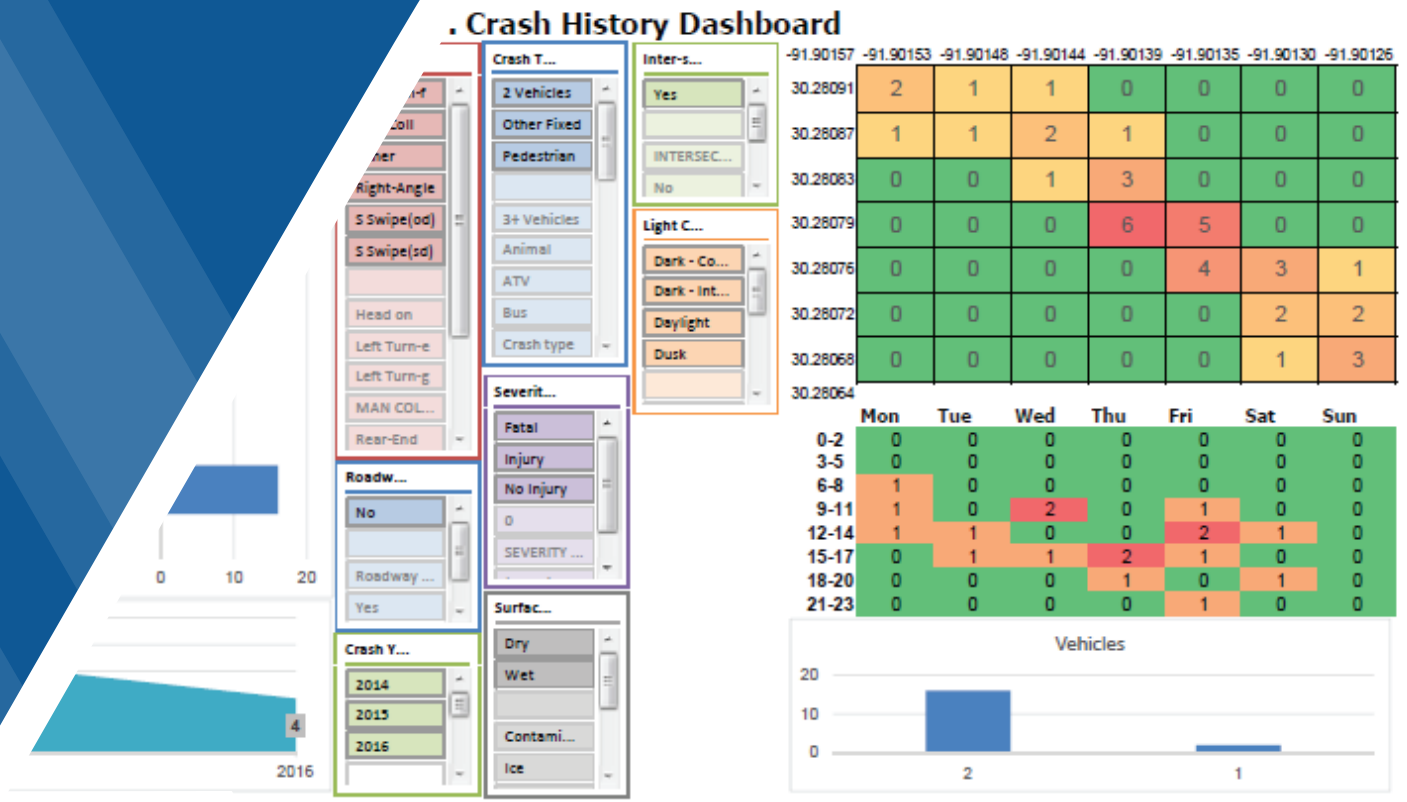


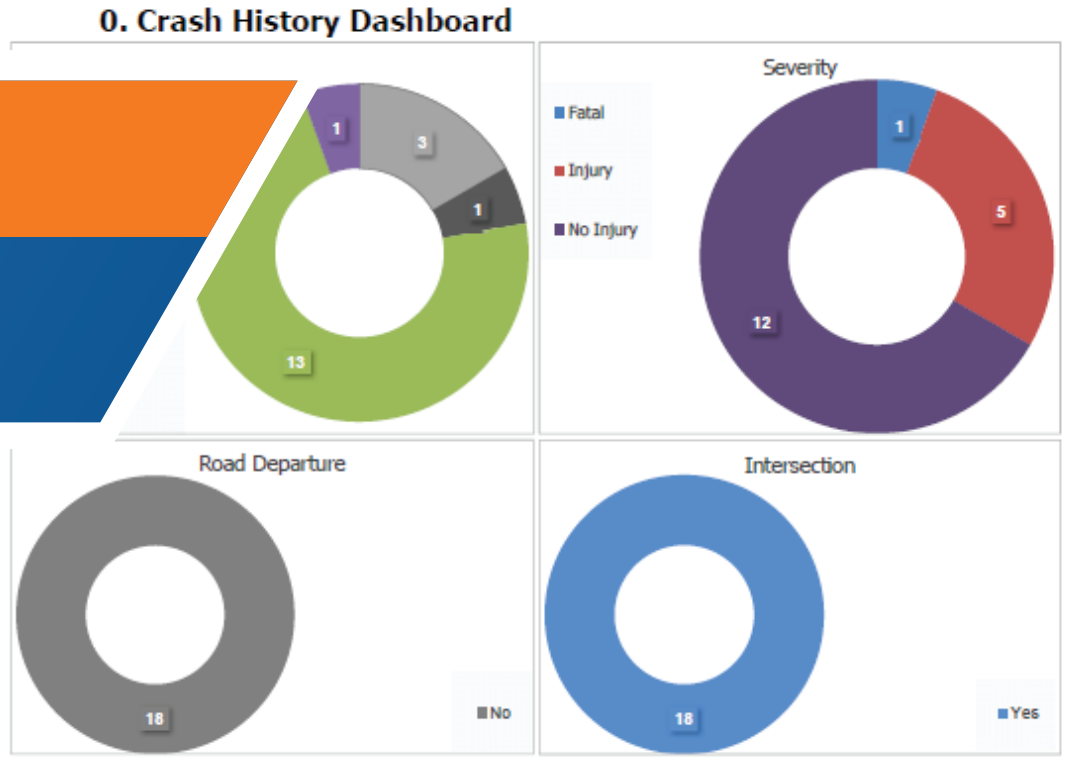
Signature above shall be the same person listed in Section 9:

Date: **February 14, 2024**

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

| FIRM | FIRM PERCENT |
|---|---|
| N/A | N/A |




# *Sections* ***12-15***

Contract No. 4400028585

**Mills Ave & Rees St Intersection Imp**

**Route: LA 93 & LA 328**

**As part of the LA 328 Stage 0 for the APC, Neel-Schaffer completed a traffic/safety study in conformance to DOTD's TEPR. A portion of the document is shown on this page.**

## 12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

| Past Performance Evaluation Discipline(s) | % of Overall Contract | Neel-Schaffer, Inc. | C. H. Fenstermaker & Associates, L.L.C. | Terracon Consultants, Inc. | Each Discipline must total to 100% |
|---|---|---|---|---|---|
| **Road** | 64.00% | 100.00% | 0.00% | 0.00% | 100% |
| **Traffic** | 25.00% | 100.00% | 0.00% | 0.00% | 100% |
| **Geotech** | 3.00% | 0.00% | 0.00% | 100.00% | 100% |
| **Survey** | 8.00% | 0.00% | 100.00% | 0.00% | 100% |
| Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant. | | | | | |
| Percent of Contract | 100% | 89.00% | 8.00% | 3.00% | |

## 13. FIRM SIZE:

| Firm name | DOTD Job Classification | Number of personnel committed to this contract | Total number of personnel available in this DOTD Job Classification (if needed) |
|---|---|---|---|
| Neel-Schaffer, Inc. | Principal | 1 | 2 |
| | Supervisor – Eng | 2 | 2 |
| | Engineer | 9 | 25 |
| | Engineer Intern | 1 | 7 |
| | Senior Technician | 2 | 2 |
| Terracon Consultants, Inc. | Principal | 2 | 2 |
| | Supervisor - Eng | 1 | 4 |
| | Engineer | 3 | 4 |
| | Supervisor - Other | 2 | 3 |
| | Technician | 0 | 8 |
| C. H. Fenstermaker & Associates, L.L.C. | Administrative | 0 | 1 |
| | Archaeologist | 0 | 1 |
| | CADD - Operator | 0 | 3 |
| | Clerical | 0 | 2 |
| | Computer Analyst | 0 | 1 |
| | Engineer | 0 | 12 |
| | Engineer Intern | 0 | 10 |
| | Environmental Pro | 0 | 2 |

| | | | |
|---|---|---|---|
|  C. H. Fenstermaker & Associates, LLC | GIS Analyst | 0 | 5 |
| | Inspector | 0 | 3 |
| | Inspector – Certified | 0 | 2 |
| | Inspector - Lead | 0 | 2 |
| | Instrument Man | 0 | 7 |
| | Party Chief | 0 | 14 |
| | Planner | 0 | 1 |
| | Principal | 1 | 3 |
| | Professional | 0 | 2 |
| | Rodman | 0 | 2 |
| | Senior Technician | 0 | 8 |
| | Supervisor – Eng | 0 | 3 |
| | Supervisor – Other | 0 | 1 |
| | Surveyor | 1 | 5 |
| | Technician | 0 | 11 |

## 14. ORGANIZATIONAL CHART:

**LEGEND**

- Neel-Schaffer, Inc.
- Terracon Consultants, Inc.
- C. H. Fenstermaker & Associates, LLC

(#) MPR Designation ◂ TEPR Certified

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

**PROJECT PRINCIPAL**
Nick Ferlito, Jr., PE, PTOE ◂ 1 2

**PROJECT MANAGER**
Vijay K. Kunada, PE, PTOE, PTP ◂ 1 2

**QA / QC**
Gary LeBlanc, PE *Road* ◂
Kirk Gallien, PE, PTOE *Traffic* ◂

**TRAFFIC FORECASTING & TRAVEL DEMAND MODELING**
Ting Yi, PE, PhD
Santosh Andem, PE, PTOE ◂
Chuck LeBoeuf, PE, PTOE ◂

**DATA COLLECTION**
Jonathan Duhe, PE, PTOE, RSP ◂
Seth Popay, EI ◂
Lonny Territo

**TRAFFIC ANALYSIS**
Santosh Andem, PE, PTOE ◂
Chuck LeBoeuf, PE, PTOE
Seth Popay, EI ◂

**SAFETY ANALYSIS**
Jonathan Duhe, PE, PTOE, RSP ◂
Chuck LeBoeuf, PE, PTOE
Seth Popay, EI ◂

**CONCEPT DESIGN**
Dishili Young, PE, PTOE ◂ 2 3
Scott Andrepont, PE 3
Mai Nguyen, PE 3
Steve Perault

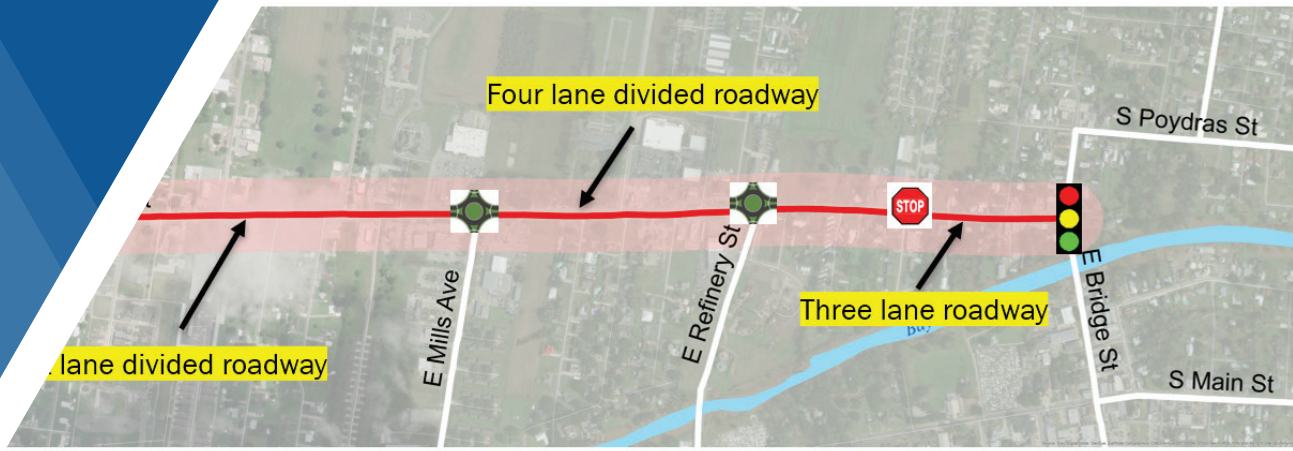
**ROAD DESIGN**
Dishili Young, PE, PTOE ◂ 2 3
Scott Andrepont, PE 3
Mai Nguyen, PE 3
Steve Perault

**SURVEYING**
Travis Bodin, , PLS, PMP 4
Bradford Millett, PLS, EI

**GEOTECH**
Lynne Roussel, PE
Ryan Poindexter, PE

## 15. MINIMUM PERSONNEL REQUIREMENTS:

| MPR No. | Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement) | Firm employed by | Type of license and discipline meeting MPR / certification and number (Ex: PE # - Civil) | State of license | License / certification expiration date |
|---|---|---|---|---|---|
| 1 | Nick Ferlito, Jr., PE, PTOE | Neel-Schaffer, Inc. | PE No. 28001 - Civil | LA | 09/30/25 |
| 1 | Vijay K. Kunada, PE, PTOE, PTP | | PE No. 32145- Civil | LA | 03/31/24 |
| 2 | Nick Ferlito, Jr., PE, PTOE | | PE No. 28001 - Civil | LA | 09/30/25 |
| 2 | Vijay K. Kunada, PE, PTOE, PTP | | PE No. 32145- Civil | LA | 03/31/24 |
| 2 | Dishili Young, PE, PTOE | | PE No. 33723 - Civil | LA | 09/30/24 |
| 3 | Dishili Young, PE, PTOE | | PE No. 33723 - Civil | LA | 09/30/24 |
| 3 | Mai Nguyen, PE | | PE No. 38189 - Civil | LA | 03/31/24 |
| 3 | Scott Andrepont, PE | | PE No. 37107 - Civil | LA | 09/30/24 |
| 4 | Travis Bodin, MBA, PLS, PMP | C. H. Fenstermaker & Associates, LLC | PLS No. 5067 - Surveying | LA | 03/31/24 |




STOP Stop Control

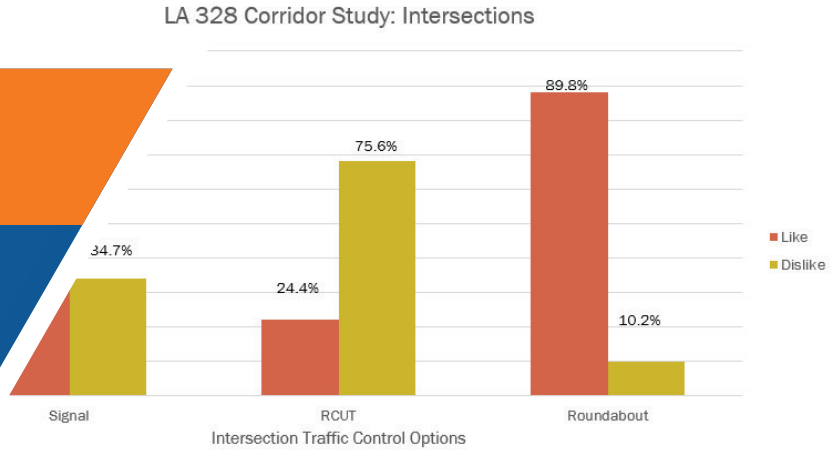
Traffic Signal

# Section 16

Contract No. 4400028585

**Mills Ave & Rees St Intersection Imp**

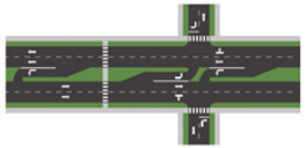
**Route: LA 93 & LA 328**




**We conducted public meetings and the graphics to the right show the public meeting summary from the Neel-Schaffer / APC stage 0 study.**

**Signalized Intersection**

**Restricted Crossing U-Turn**



**Modern Roundabout**

## 16. STAFF EXPERIENCE

| Firm employed by Neel-Schaffer, Inc. | | | |
|---|---|---|---|
| Name | **Nick Ferlito, Jr., PE, PTOE** | Years of relevant experience with this employer | 28 |
| Title | Senior Vice President / Louisiana Area Manager | Years of relevant experience with other employer(s) | 3 |
| Degree(s) / Years / Specialization | BS / 1993 / Civil Engineering; MS / 1996 / Civil Engineering | | |
| Active registration number / state / expiration date | PE No. 28001 / LA / 09-30-2025; PTOE No. 930 | | |
| Year registered: 1998 | Discipline: Civil | | |
| Contract role(s) / brief description of responsibilities | Principal **MPRs 1 & 2** | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 01/20 – Present | **I-20: LA 544 Overpass Replacement**: TMP and traffic analysis QA/QC. Preliminary and final design services for this project., which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The project includes a new bridge over I-20 with sidewalks and four multilane roundabouts within a roundabout interchange with two roundabouts on a 3% longitudinal grade & partially on bridge. Includes a level 2 TMP |
| 01/15 – 01/23 | **Various Traffic Impact Studies along LA 44:** Project Manager for multiple traffic impact studies for various developments along LA 44 which include Conway Plantation, Oak Lake Subdivision, Pelican Crossing Subdivision, Pelican Point Subdivisions and Love's Travel Stop. As part of the Conway Plantation study, a roundabout was analyzed and recommended at the entrance of LA 44 and Conway Plantation and Oak Lake Subdivision which was later constructed under a DOTD permit. Our latest study, the Love's Travel Stop, the interchange at LA 44 at I-10 was evaluated for existing and future conditions as a roundabout and with interim recommendations prior to the installation of roundabouts. Traffic data for the analysis was collected by Neel-Schaffer in 2022. Neel-Schaffer, Inc. has extensive knowledge of the LA 44 corridor from I-10 to LA 22 through. We are very familiar with the struggles to determine cost effective traffic control at the intersection of LA 44 and Loosemoore Road due to minimum gaps for side street traffic to exit onto LA 44. This roundabout corridor will greatly improve the access to and from Loosemoore Road. |
| 10/13 – 12/16 | **LA 30 Stage 0 Traffic & Safety Study, Gonzales, LA**: Project Manager for the traffic study, including a TIER analysis for new interchange concepts at I-10 at LA 30, as well as corridor improvements between LA 3251 and LA 44. Future traffic forecast for the study were developed using the CRPC Travel Demand model and considered future interchanges at I-10 and LA 74 and LA 429. The recommended TIER I alternatives were analyzed in detail using Vissim. Includes Multilane Roundabout interchange |
| 01/11 – 01/14 | **LA 447 Corridor Study (LA 16 to US 190), Walker, LA**: Project Manager for a traffic study to evaluate corridor improvements along LA 447 as well as interchange concepts at I-12. A TIER analysis was performed at the interchange of I-12 at LA 447 to evaluate various interchange configurations. The corridor analysis included HCS and Vissim analysis to evaluate RCUT and roundabout corridor concepts. Includes multilane roundabouts |
| 07/16 – Present | **I-49 South at Verot School Road, Lafayette, LA**: Performed Traffic QA/QC on the preparation of a Level 3 TMP and design of temporary and permanent traffic signals. Includes a multilane Roundabout |
| 08/20 – Present | **I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA**: Project Manager for Interchange Modification Report, TMP, and ITR of MOT Plans for the proposed College Drive Ramp improvements. The IMR was prepared in accordance with DOTD's TEPR and FHWA Policy Points. The IMR analysis was performed using Vissim software. In addition, the TMP was prepared for the various maintenance of traffic phases. Analysis used in the TMP included HCS analysis for detour evaluations and Dynameq (Mesoscopic Modeling) for evaluating various MOT strategies. |
| 08/20 – Present | **College Drive Enhancement Project (Perkins Road to I-10), Baton Rouge, LA**: Project Manager for the Traffic Study component for the study of the College Drive corridor. The Traffic Study is being prepared in accordance with DOTD's TEPR and includes performing all analysis in Vissim to evaluate various alternatives. In addition to corridor improvements, a tiered analysis will be performed to evaluate various interchange alternatives for I-10 at College Drive. |

| | |
|---|---|
| 12/19 – Present | **US 80 Feasibility Study, Haughton, LA**: Project Manager for the preparation of a Stage 0 Report in support of safety improvements along US 80 corridor, specifically in the vicinity of Bellevue Road and Mid-South Loop Road. All analysis performed in HCS for this study. The traffic study was performed in accordance with DOTD's TEPR. |
| 06/17 – 09/18 | **I-10 New Orleans Master Plan, Port Access Improvements**: Created a plan or a program of projects which mitigates the severe congestion extending from Interstate 10 at its interchange with the Pontchartrain Expressway (US 90B / I-910) to the Crescent City Connection (CCC) crossing of the Mississippi River, including connecting ramps and roadways. Project Manager. Includes roundabout alternatives. |
| 01/15 – 06/15 | **LA 3002, 16 & 1034 Corridor Study Phase 2, Range Ave. Corridor Study**: Project Manager. Includes 12 roundabout alternatives. |
| 03/13 – 09/14 | **Operational / Safety Study, LA 311, Houma, LA**: Provided traffic signal evaluation and installation design services: Traffic counting (data collection), Warrant Analysis, Traffic Modeling, Intersection / Corridor Analysis Traffic Signal Design, Geometric Evaluations, Traffic Signal Inventories (TSI), and Access Management. Traffic Engineering Manager Includes 6 roundabout alternatives. |
| 11/12 – 04/14 | **Operational / Safety Study, LA 1088, Mandeville, LA**: Provided traffic signal evaluation and installation design services: Traffic counting (data collection), Warrant Analysis, Traffic Modeling, Intersection / Corridor Analysis Traffic Signal Design, Geometric Evaluations, Traffic Signal Inventories (TSI), and Access Management. Traffic Engineering Manager Includes 8 roundabout alternatives. |
| 01/13 – 01/14 | **US 190 (LA 433 to US 11) Interim Capacity / Widening Improvements Stage 0 Feasibility Study**: Performed a safety and capacity evaluation of a 6.6-mile segment of US 190 corridor within St. Tammany Parish extending from LA 433 to US 11. Traffic Engineering Manager. Includes 8 roundabout alternatives. |
| 11/16 – 08/19 | **LA 385 Feasibility Study, Lake Charles, LA**: Project Manager for the Stage 0 Report in support of safety and traffic operational improvements along with the LA 385 (Ryan Street) corridor between LA 3186 south of I-10 to Eddy Street north of I-10, including the LA 385 interchange with I-10. Includes Multilane Roundabouts |
| 02/16 – 04/18 | **LA 22 Corridor Study, Rou Mar Nei Drive to 1st Street, Ponchatoula, LA**: Project Manager for a traffic study to evaluate corridor improvements along LA 22 as well as interchange concepts at I-55. A TIER analysis was performed at the interchange of I-55 at LA 22 to evaluate various interchange configurations. The corridor analysis included HCS analysis to evaluate RCUT and roundabout corridor concepts. |
| 02/15 – 04/18 | **LA 384 Stage 0 Traffic & Safety Study, Lake Charles, LA**: Project Manager for traffic and safety study for LA 384 (Country Club Road) from Big Lake Road to McNeese Street. Includes Multilane Roundabouts |
| 02/18 – Present | **Kansas Lane-Garrett Road Connector and I-20 Improvements, Monroe, LA**: Project Manager/Traffic Lead for the preparation of a Level 4 Transportation Management Plan, review of MOT plans, design of temporary and permanent traffic signals and design of the relocation of DOTD ITS fiber optic trunk line. |
| Career History | Nick joined Neel-Schaffer in 1996. He is a Senior Vice President and serves as Louisiana Area Manager, overseeing all responsibilities for the state. He has more than 30 years of experience managing a wide range of traffic and transportation projects. He has served as a project manager for many intersection/corridor signal timing studies, signal design projects, safety studies and other traffic engineering related projects for public and private projects. Nick is experienced with numerous traffic engineering software packages, including HCS, CORSIM, SYNCHRO, Tru-Traffic (TSPPDraft), and SIDRA. He also completed the Naztec TS1/TS2 Controller 2-Day training course. He has also completed the NEPA and Transportation Decision Making course (2004), the Highway Safety Manual Workshop (2011) as well as LADOTD's Traffic Engineering Process and Report (TEPR) training. He has also served as the project manager and lead traffic engineering for the following IDIQ contracts with Louisiana Department of Transportation and Development:<br>• IDIQ Contract 44-01583 for Safety Studies Statewide<br>• IDIQ Contract 44-04402 for Safety Studies Statewide<br>• IDIQ Contract 44-10504 for Safety Studies Statewide<br>• IDIQ Contract 44-08851 for Traffic Signal Engineering<br>• IDIQ Contract 44-04712 for Traffic Engineering<br>• IDIQ Contract 44-04064 for Traffic Engineering<br>• IDIQ Contract 44-01777 Signal Timing Studies<br>• IDIQ Contract 44-04712 Traffic Signal Engineering |

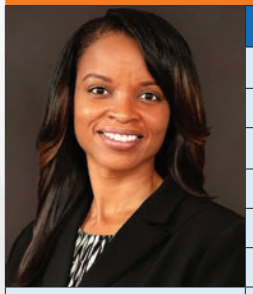
## 16. STAFF EXPERIENCE

| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Vijay Kunada, PE, PTOE, PTP** | | | Years of relevant experience with this employer | 18.5 |
| Title | Senior Vice President | | | Years of relevant experience with other employer(s) | 4.5 |
| Degree(s) / Years / Specialization | | | BS / 1999 / Civil Engineering; MS / 2001 / Civil Engineering; MS / 2002 / Computer Science | | |
| Active registration number / state / expiration date | | | PE No. 32145 / LA / 03-31-2024; PTOE No. 2868 / 04-30-2025 | | |
| Year registered | 2008 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Project Manager **MPRs 1 & 2** | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 04/18 – 04/20 | **LA 328 (Rees Street) Corridor Study and Plan**: Project Manager, Managed the feasibility study of improving La. Hwy. 328/Rees Street within the corporate limits of the City of Breaux Bridge, Louisiana from Latiolais Road to E Bridge Street including the intersection of E Mills Ave at LA 328 improvements considering the impacts of the proposed E Mills Ave extension to Doyle Melancon Ext. Along with overall project management, Mr. kunada lead the traffic and safety study in accordance with DOTD’s TEPR, three public meetings and stakeholder outreach. VISSIM was utilized to develop a video rendering of the proposed corridor concept operations to present at the public meetings. A locally preferred corridor concept was also developed. |
| 09/20 – 12/21 | **Lafayette (LA) MPO 2050 Metropolitan Transportation Plan**: As Project Manager, Mr. Kunada assisted the MPO with the development of performance based multi-modal long range transportation plan . Tasks also included travel demand model (TransCAD) development using big data sources, demographic forecasting, financial analysis, detailed modeling task and project prioritization process to develop the staged improvement plan. |
| 07/20 – Present | **MRB South GBR: LA 1 to LA 30 Connector**: As Mesoscopic Modeling Lead, Vijay oversaw the development of regional mesoscopic model using Dynameq software and the analysis of proposed MS River bridge concepts under toll and non-toll options. Calibrated and validated 2019 base mesoscopic model, 2042 no-build model and 2042 build models for 20 bridge alternatives were developed and approved LADOTD. Model results were used as one of the criteria to select the final three alternatives to bring into the environmental planning process. Phase 2 of the study which includes detailed traffic analysis is currently under contracting process. |
| 08/20 – Present | **I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA**: Mesoscopic Modeling Lead for the analysis of Transportation Management Plan (TMP) for the proposed College Drive Ramp improvements. TMP was prepared for the various maintenance of traffic (MOT) phases. Vijay is leading the Dynameq (Mesoscopic Modeling) modeling for evaluating various MOT strategies and completed the modeling of MOT Phase 1. |
| 08/16 – 10/18 | **I-10 Mobile River Bridge and Bayway Widening, Mobile, AL**: As IMR Lead, oversaw development of IMR from data collection phase through the approval. Tasks included traffic forecast for toll and non-toll options, analysis of the proposed Mobile River Bridge and the widening of the Bayway using Synchro/HCS, as well as the proposed modifications to the interchanges within the study area including Diverging Diamond Interchange (DDI) configurations at three locations, VISSIM modeling for analyzing complex weave conditions and the development of IMR in accordance with ALDOT guidelines and FHWA Policy Points. |
| 12/18 – 02/19 | **I-635 LBJ East Alternative Technical Concepts, Dallas, TX**: Lead the traffic analysis and refinement of the Alternative Technical Concepts (ATC) proposed for three interchanges associated the I-635 LBJ East Project in Dallas, TX. Freeway elements, ramp terminals and frontage roads were analyzed for the original build concept and the proposed ATCs and demonstrated the effectiveness of the proposed ATCs over the original build concept. |
| 03/17 – 12/17 | **I-210 Bridge Traffic Impact Study, Calcasieu Parish, LA**: Managed a traffic study to develop a preferred alternative by analyzing the impacts of various I-210 bridge closure alternatives, and to develop recommendations to manage the expected congestion related to the planned rehabilitation of I-210 bridge over Prien Lake in Lake Charles, Louisiana. Developed project specific travel demand model to model and understand the impacts of bridge closure scenarios. |
| 11/15 – 03/19 | **I-49 Interchange Improvement at US 190 and LA 31, St. Landry Parish, LA**: Tasks included the development of existing and future traffic projections and development of corridor concepts using Access Management strategies, road diet options and innovative intersection configurations such as R-Cuts, J-turns and Roundabouts. |

| | |
|---|---|
| 09/20 – 06/21 | **MOVE 2046 Demographics and Travel Demand Model (TDM) Update**: Mr. Kunada managed the development of tour based regional travel demand model (TransCAD) along with a land use allocation model for scenario planning and development of regional demographics. This is the latest model that should be used for all traffic forecasting within the Baton Rouge MPO area. Mr. Kunada also managed the development of all TDMs for the Baton Rouge MPO area since 2006. |
| 09/19 – 12/20 | **Monroe (LA) 2045 Metropolitan Transportation Plan (Connecting Ouachita 2045)**: As Project Manager, Mr. Kunada oversaw the development of performance based multi-modal long range transportation plan with detailed regional freight component. Tasks also included travel demand model (TransCAD) development using big data sources, demographic forecasting, detailed multi-modal operational and safety needs analysis with robust public and stakeholder engagement element. |
| 05/14 – 03/16 | **LA 73 Stage 0, Prairieville, LA**: As Traffic Forecast Lead, Mr. Kunada managed the development of future traffic forecast for the study using the CRPC Travel Demand model and considered future interchanges at I-10 and LA 74 and LA 429. |
| 10/14 – 11/16 | **Interstate 10 at Ambassador Caffery Pkwy Interchange Stage 0 Study**: Project Manager for Traffic Analysis. Tasks included the development of existing and future traffic projections, safety analysis and development of future interchange conceptual geometry to improve safety and accommodate future traffic demands. AM strategies include channelized turn lanes, raised medians, RCUTs, limited access driveways. |
| 10/13 – 09/18 | **Roundabout Stage 0 Feasibility Studies at Various Intersections, Lafayette, LA**: Completed 23 roundabout studies using LADOTD Stage 0 and Roundabout Policy. (LADOTD Project No: H.004490) Role: Project Manager |
| 11/15 - 02/19 | **Southcity Parkway Extension, Phase 1, Robley Drive to Kaliste Saloom Road, Lafayette Parish, LA**: Environmental Assessment developed in conformance with USCG guidance, engineering line and grade and technical environmental studies supporting the design and construction of Southcity Parkway extension from current terminus west of the Vermillion River to Kaliste Saloom Road including a crossing of the Vermillion River, which is a navigable waterway. Project Engineer responsible for traffic forecast and analysis, including three roundabout geometry intersections. |
| 02/13 – 02/17 | **Interstate 10 at Grand Prairie Hwy Interchange Justification Study**: Rask Manager for Traffic and Safety Analysis and developing the IJR report (LADOTD Project No: H.003763). Mr. Kunada led the traffic study from traffic forecasting to analysis of prosed alternatives including the no-build and build scenarios. He also led the safety analysis of the proposed alternatives using ISATe tool. |
| 10/20 – 03/22 | **Baton Rouge (LA) 2046 Metropolitan Transportation Plan (MOVE 2046):** As Project Manager, Mr. Kunada oversaw the development of performance based multi-modal long range transportation plan with detailed regional freight component. MOVE 2046 tasks also include Congestion Management Process using big data sources and air quality conformity determination for the MPO with robust public and stakeholder engagement element. |
| Career History | Vijay serves as a project manager for local and regional transportation plans, traffic impact studies, travel demand models, safety studies, signal warrant analysis, traffic signal timing plans, corridor analysis, interchange modification and justification studies, traffic simulation models (mesoscopic and micro), demographic forecasting, and other traffic engineering related projects for both public and private developments. He has extensive experience in traffic modeling including census data analysis, travel demand model development using TransCAD and CUBE, mesoscopic modeling using Dynameq and TransModeler, demographic forecasting, region wide safety data analysis, external travel surveys, Highway Capacity Software, Synchro, SimTraffic, ISATe, VISSIM, TransModeler, Dynameq, COSRSIM, DynaSmart-P, Trip Generation, traffic studies for Environmental Impact Statement projects, intersection studies and corridor analysis. His experience with traffic operational analysis includes microsimulation, freeway mainlines, ramp merge/diverge areas, weaving segments, multilane & 2-lane highways and intersection operations. Mr.Kunada served as project manager for 20 local and regional transportation plans in the states of Louisiana (managed six out of 8 MPO area plans), Mississippi, Alabama, Arkansas, Tennessee and Texas. Additionally, he has worked on developing transportation/infrastructure elements of comprehensive plans for City of Central, LA; Lafayette, LA; Alexandria, LA; Murfreesboro, TN; Louisville, KY. Mr. Kunada has completed DOTD's Traffic Engineering Process and Report (TEPR) training |

## 16. STAFF EXPERIENCE

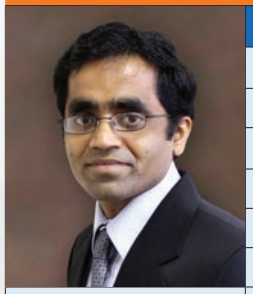


| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Dishili Young, PE, PTOE** | | | Years of experience with this firm/employer | 6 |
| Title | Vice President / Engineering Manager | | | Years of experience with other firm(s)/employer(s) | 15 |
| Degree(s) / Years / Specialization | | | BS / 2002 / Civil Engineering; MS / 2018 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 33723 / LA / 09-30-2024 | | |
| Year registered | 2008 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Concept Plans & Road Design Lead **MPRs 2 & 3** | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 04/18 – 04/20 | **LA 328 (Rees Street) Corridor Study and Plan**: Project includes improving La. Hwy. 328/Rees Street from Latiolais Road to E Bridge Street including considering the impacts of the proposed E Mills Ave extension LA 328 to Doyle Melancon Ext. roadway and outreach |
| 03/19 – 04/20 | **Stage 0 Feasibility Study LA 328 (Latiolais Drive to Julie Street):** Ms. Young served as the Project Manager and Engineering Professional responsible for performing the Feasibility Study, which includes the determination of design criteria, establishment of typical sections and project coordination and management. Her duties also included assisting in the organization and conduction of stakeholders meetings in accordance with NEPA. The concepts for this project include a double roundabout interchange and a traditional diamond interchange. Both alternatives will widen the existing corridor but differ by the intersection improvements: roundabouts and J-turns. This project requires coordination with the I-10 widening project and the proposed I-10 bridge improvements. |
| 01/20 – Present | **I-20: LA 544 Overpass Replacement**: Managing the preliminary and final design services for this project. This project will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The project includes a new bridge over I-20 with sidewalks and four multilane roundabouts within a roundabout interchange with two roundabouts on a 3% longitudinal grade & partially on bridge. Includes a level 2 TMP |
| 04/18 – Present | **I-49 South at Verot School Road**: Managing the design services for the interstate design and service road design (drainage, preliminary and final road design and TMP). This project which will construct 2.4 miles of mainline freeway, bridges and an interchange at the intersection of I-49 South/US 90 and Verot School Road. This project includes the design of a major bridge crossing at Verot Rd. and I-49 and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. Neel-Schaffer (NSI) is serving as the subconsultant for this project. NSI is designing the interstate mainline and frontage roadways, as well as, designing the drainage along these corridors. NSI is also completing the traffic design and level 3 TMP. Includes a multilane roundabout |
| 09/18 – 12/18 | **I-20 at 220 Interchange Improvement & BAFB Design-Build Project**: Included preliminary plan development for completing the existing partial interchange by adding a new flyover ramp, cloverleaf ramp, modifying existing ramps, and providing a new arterial roadway with a new bridge over the Kansas City Southern railroad. |
| 08/17 – 03/19 | **Juban Road Widening**: Served as the engineer of record and managed the completion of the roadway and drainage design services for this project which will widen LA 1026 (Juban Rd.), construct three multilane roundabouts and two new frontage access roadways, with storm drainage sewer systems. |
| 08/17 – Present | **Mandeville Bypass, Mandeville, LA**: This project will provide a new 3 Mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park. Ms. Young is managing the roadway design services. Includes multiple multilane roundabouts. |
| 02/10 – 12/11 | **I-10 Widening Design-Build Siegen Ln. (LA Hwy 3246) to Highland Rd. (LA Hwy 74) for LA DOTD**: Served as Engineer and managed portions of the civil design for this project. This project involved the widening of I-10 from four lanes to six, bridge reconstruction (I-10 over Wards Creek and I-10 over KCS Bridge), and drainage improvements along the corridor. In addition to assisting with the roadway design, Ms. Young completed the H&H analysis and scour analysis for the Wards Creek Bridge. She also assisted with the drainage design along the interstate corridor. |

| | |
|---|---|
| 01/09 – 11/11 | **I-12 Widening Design-Build (O'Neal Ln. to Pete's Hwy)**: Served as Engineer for this project which involved the widening of I-12 and bridge reconstruction (I-12 over Amite River (two bridges) and I-12 over O'Neal Lane (two bridges)). In addition to assisting with the roadway design, Ms. Young assisted with the scour analysis and H&H analysis at the Amite River as well as the drainage design along the interstate corridor. |
| 08/17 – 03/20 | **LA 73 Turn Lanes**: This project will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The roadway and drainage design were completed in accordance with LADOTD guidelines |
| 12/22 – Present | **LA 89 @ Guillot Rd Improvements**: Existing drainage determination, proposed drainage design and plan preparation. Includes roundabouts. Preliminary and Final Road Design |
| 08/22 – Present | **LA 89 at Chemin Metairie Parkway, Youngsville, LA**: This project provides new two-lane connector roadway with drainage between Chemin Metairie Parkway & LA 89. Includes multilane roundabouts in final design stage |
| 09/22 – Present | **E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. Roadway and Drainage Design. |
| 12/14 – 08/17 | **LA 447 Corridor Study, Walker, LA (LA 16 to US 190)**: Assisted with the geometric design for the R-Cut and roundabout improvements, public outreach and served as Project Manager and road design lead for the EA while working at APTIM. Includes multilane roundabouts |
| 08/17 – Present | **Ham Reid at LA 3092 Intersection Improvements**: Serves as engineer of record for this project which will construct a roundabout at the intersection of LA 3092 and Ham Reid Road. The roadway and drainage design were completed in accordance with LADOTD guidelines. |
| 12/17 – 07/20 | **Southcity Parkway Extension, Lafayette, LA**: This project constructs a 1.7 - mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three multilane roundabout intersections and a new bridge crossing of the Vermillion River. The roadway and drainage design is being completed in conformance with LADOTD guidelines. Ms. Young managed and assisted with the roadway, bridge hydraulics and roadway drainage design effort for this project. NSI provided public outreach, environmental, road design and traffic services. |
| 10/13 – 12/16 | **I-10 LA 30 Stage 0, Gonzales, LA**: Traffic & Safety Study: PM for line and grade geometry, public outreach considered 21 interchange types for new interchange concepts at I-10 at LA 30, as well as corridor improvements between LA 3251 and LA 44. CRPC Travel Demand model used with consideration of future interchanges at I-10 and LA 74 and LA 429. The concepts utilized in this study served as the base geometry for the preliminary plans. Includes Multilane Roundabout interchange |
| 09/17 – 10/18 | **LA 27 Turn Lanes**: Served as engineering design manager for this project which constructed turn lanes at multiple locations along LA 27 in Calcasieu and Cameron Parishes. The design was completed in accordance with LADOTD guidelines. |
| | **I-69 SUI 13 Road Design Services for ARDOT**: NSI is contracted with ARDOT to provide roadway and drainage design services for a 30 Mile new segment of I-69 with multiple interchanges near Monticello. This corridor will be constructed in phases to allow it to advance as funding is available. Neel-Schaffer will produce this design as separate design packages. |
| 03/07 – 08/08 | **South Harrell's Ferry Road Improvements, GLP, Baton Rouge, LA**: This project involved the reconstruction, realignment and widening of South Harrell's Ferry Road to a median divided corridor. Ms. Young provided design support for roadway and drainage tasks which were all completed in accordance with LADOTD guidelines. |
| Career History | Dishili offers approximately 20 years of progressive experience which includes program management, engineering management, project management and engineering design. Her experience includes the management and design of interstate design-build projects, interstate design-bid-build projects, including roundabout interchanges, road design projects, including multilane roundabouts, drainage projects, H&H Studies, environmental studies and feasibility studies. Her Continuing Education is documented as follows: Transportation Safety Systems (Highway Safety Manual Graduate Course), Auburn University, 2016: ATSSA Traffic Control Supervisor Training Course, Baton Rouge, 2015; ATSSA Traffic Control Technician Training Course, Baton Rouge, 2015: FHWA Highway Safety Manual Workshop, Baton Rouge, 2014; Roadside Safety Design by the Federal Highway Administration and National Highway Institute, LTRC, 2010; Urban Street Design, University of Wisconsin, Madison,; Open Channel Design, University of Wisconsin, Madison; Comprehensive Culvert Design, University of Wisconsin; Maintaining Asphalt Pavements, University of Wisconsin; Using HEC-RAS to compute water surface profiles for floodplains, bridge and culvert hydraulics, University of Wisconsin; DOTD's Traffic Engineering Process and Report (TEPR) training |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Santosh Andem, PE, PTOE** | | | Years of experience with this firm/employer | 13 |
| Title | Senior Traffic Engineer | | | Years of experience with other firm(s)/employer(s) | 4 |
| Degree(s) / Years / Specialization | | | B. Tech / 2003 / Civil Engineering; MS / 2006 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 36465 / LA / 03-31-2024; PTOE No. 3017 | | |
| Year registered | 2011 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Data Collection; Traffic Forecasting & Travel Demand Modeling; Traffic Analysis | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 04/18 – 04/20 | **Rees St (LA 328) Corridor Study**: This is a feasibility Study of improving LA 328/Rees St. from Latiolais Dr. to Bridge St. Tasks completed include data collection, intersection/corridor analysis for existing and future conditions, field review observations, intersection and corridor safety analysis for No Build and existing conditions, forecasting future volumes and active participation in public meetings. |
| 01/14 – 09/18 | **Roundabout Stage 0 Studies, Lafayette Consolidated Government, Lafayette, LA**: This is a task order contract to conduct Stage 0 Feasibility Studies which evaluate constructability, safety, and operations of modern roundabout at 23 intersections. Tasks completed by Santosh include signal warrant analysis, crash analysis, spot speed data analysis, traffic analysis of existing and future volumes, forecasting future volumes using Lafayette Metropolitan Organization Travel Demand Model, and preparation of the report detailing the findings and recommendations. |
| 04/18 – 06/23 | **LA 1256 Corridor Study from Patton Street to Dave Dugas Road, Calcasieu Parish, LA**: This project involves widening of LA 1256 from Patton Street to Dave Dugas Road. Three Roundabout intersection are analyzed. Tasks completed by Santosh includes intersection and corridor safety analysis, data collection, roundabout analysis using SIDRA for existing and future volumes, writing technical memorandum documenting conclusions and recommendations. |
| 07/21 – 08/21 | **I-285 & SR400 Reconstruction Project, Atlanta, GA**: This project is in reference to I-285 & SR400 Reconstruction Pro-ject – Phase 5 Stage 1. Phase 5 considers the reduction of I-285 lanes to 3 per direction to be able to fully reconstruct three underpasses of the Interstate. Tasks completed by Santosh includes developing VISSIM models, and preparation of tech memo detailing the study findings. |
| 11/19 – 10/20 | **I-24 Interchange at I-75 Interstate Access Request (IAR) Phase 2, Chattanooga, TN**: The project involves conducting an Interstate Access Request (IAR) at S Moore Road and Belvoir Avenue Interchanges. Tasks completed by Santosh include developing existing, No Build and Build (Phase 1 and Phase 2) VISSIM models for AM and PM. |
| 01/22 – 10/22 | **LA 92 Corridor Study, Youngsville, LA**: This purpose of this project is to develop and evaluate the improvements along the East Milton Avenue/Iberia Street Corridor that would improve the existing corridor traffic operations. Tasks completed by Santosh included spot speed data analysis, traffic analysis of existing and rerouted volumes using SIDRA and HCS software's and developing report detailing findings and recommendations. |
| 01/22 – 10/22 | **Johnston Street from University Avenue to US 90/SE Evangeline Thruway, Lafayette Consolidated Government, Lafayette, LA**: The primary purpose of this study is to evaluate the feasibility of complete streets along Johnston Street from University Avenue to Southeast Evangeline Thruway to provide options for all users of transportation. Santosh worked on the traffic analysis of existing and rerouted volumes using Synchro, safety analysis and preparation of the report detailing study findings and recommendations. |
| 10/13 – 12/16 | **LA 30 Stage 0, Gonzales, LA – Traffic & Safety Study:** Traffic Engineer, Santosh assisted in the development of future traffic forecast for the study using the CRPC Travel Demand model (TransCAD) and considered future interchanges at I-10 and LA 74 and LA 429. |
| 05/14 – 03/16 | **LA 73 Stage 0, Prairieville, LA – Traffic & Safety Study**: Traffic Engineer, Santosh assisted in the development of future traffic forecast for the study using the CRPC Travel Demand model (TransCAD) and considered future interchanges at I-10 and LA 74 and LA 429. |

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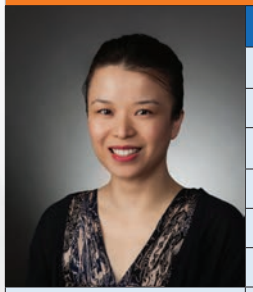
| 03/17 – 12/17 | **I-210 Bridge Traffic Study, Calcasieu Parish, LA**: The purpose of this study is to analyze the impact of various alternatives related to the rehabilitation of I-210 Bridge over Prien Lake in Lake Charles, LA. Tasks performed by Santosh includes traffic analysis for base year and construction phase alternatives, matrix comparison of construction phase alternatives and developing report based detailing study findings and recommendations. |
| 07/14 – 04/15 | **I-10 Interchange at North Ambassador Caffery Parkway Stage 0 Feasibility Study, LADOTD, Lafayette, LA**: The purpose of this study is to provide operational, safety and capacity improvements to the I-10 at N. Ambassador Caffery Pkwy interchange and intersections within the influence area of the interchange as well as improve access for freeway traffic to adjacent arterials and vice versa. Tasks completed by Santosh include existing analysis, developing future intersection peak hour volumes using Lafayette MPO travel demand model, signal warrant analysis, capacity and LOS of study intersections, ramps, weaving sections and corridors using Synchro 8 and HCS 2010, and preparation of the report detailing the findings and recommendations. Project Engineer |
| 03/12 – 04/12 | **N. University Avenue (LA 182) Widening, Lafayette Consolidated Government, Lafayette, L**A: This project involves widening of University Avenue between I-10 and Pont des Mouton Road. Three roundabout geometry intersections are proposed. Tasks completed by Santosh includes preparing a VISSIM model for build scenario, air quality analysis using MOVES 2010a and preparing air quality report documenting study findings. |
| 10/12 – 01/13 | **LA 935 (LA 431 to LA 22) Safety Study/Stage 0 Feasibility Study, LADOTD, Ascension Parish, LA**: This is a Safety Stage 0 Study. Tasks completed by Santosh included the identification of crash clusters, the review of hard copy police reports, determinization of the contributory causes and the development and evaluation of the effectiveness of proposed alternatives using IHSDM. |
| Career History | Santosh joined Neel-Schaffer in 2011. He serves as a senior traffic engineer/transportation planner for traffic impact studies, traffic simulation models, signal timing, local and regional travel demand models, corridor analysis, demographic forecasting, and other traffic engineering related projects for both public and private developments. He has extensive experience in traffic engineering which includes safety studies related to intersection/lane departure/pedestrian, signal warrant analysis, roadside hazard, fatal crash reviews, corridor analysis, qualitative assessment, signal timing, signal design traffic impact studies and traffic control. Santosh has experience in using Synchro/Sim Traffic, Highway Capacity Software (HCS), VISSIM, Tru-Traffic, AutoCAD, Microstation and SignCAD. Additionally, he has working knowledge of CORSIM and TransCAD. Santosh has completed DOTD's Traffic Engineering Process and Report (TEPR) training. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Ting Yi, PhD, PE** | | | Years of relevant experience with this employer | 4 |
| Title | Senior Transportation Engineer | | | Years of relevant experience with other employer(s) | 13 |
| Degree(s) / Years / Specialization | | | BS/2001/Civil Engineering; MS/2004/Civil Engineering; PhD/2008/ Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 108975 / TX / 03-31-2024 | | |
| Year registered | 2011 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Traffic Forecasting & Travel Demand Modeling | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 10/20 – 03/22 | **Baton Rouge (LA) 2046 Metropolitan Transportation Plan (MOVE 2046).** As modeling task lead, Dr. Yi updates the TDM TAZs, highway network and Transit network though evaluation of land use/DOTD traffic/CATS Transit data. She also reviews 2019/2020 Capital Region Transportation Survey (CRTS) report and helps the development of tour based reginal model. To validate model, Dr. Yi uses Streetlight O-D data to analyze external-external (EE) trips, calibrate external-internal (EI) trips equations and trip length trip length frequency distribution. Dr. Yi will conduct traffic projections and evaluate alternatives using various corridor layouts. |
| 08/20 – 03/21 | **2045 Mississippi Unified Long-Range Transportation Infrastructure Plan (MULTIPLAN)**. As a senior modeler, Dr. Yi assists the development of the statewide, and reginal (Starkville, Jackson, Gulf Coast, Hattiesburg) travel demand models. To validate model, data collection was obtained from multiple sources (MDOT, Google Imagery, 2010 Census) and included AirSage O-D data. Initial model runs and adjustments were compared with obtained data to validate TDM outputs. To refine the previous 2040 model, Dr. Yi identified committed projects, and used validated TDM and AirSage O-D data to understand future travel patterns with new improvements. |
| 09/20 – 12/21 | **Lafayette (LA) 2050 Metropolitan Transportation Plan:** As modeling task lead, Dr. Yi updated the TDM TAZs and highway network using TransCAD through the evaluation of land use and DOTD traffic data. Dr. Yi used Streetlight O-D data to analyze external-external (EE) trips, calibrated external-internal (EI) trips equations and trip length trip length frequency distribution. Finally, Dr. Yi developed a calibrated and validated TDM. Following the base model development, Dr. Yi conducted traffic projections and evaluated alternatives using various corridor layouts. |
| 04/18 – 07/20 | **TxDOT GEC Mobility 35 Plan.** As part of mobility and safety study on IH-35 in Austin, TX, improvements included main lane widening, new bridge, and new ramps. Dr.Yi, as GEC AECOM traffic lead and task manager, worked on multiple tasks including Downtown new concept operational analysis, Parmer/GAP IAJR review, Capital Express IAJR review and Extra pavement feasibility analysis. She led the TDM development in TransCAD for traffic analysis and alternatives recommendations including Managed Lane, HOV lane, and GP expansion. To develop reasonable outputs for Managed lanes, Dr. Yi accomplished 2040 TDM by incorporating travel time reliability. |
| 04/18 – 05/19 | **Interstate 10 San Antonio Corridor Study**. Dr. Yi led traffic projection task. She coordinated with AAMPO for TDM and associated demographic input data, reviewed TDM and performed necessary model updates based on land use/economic activity changes, evaluated alternatives based on model performance, reviewed socioeconomic data and performed analysis on historical traffic counts and developed future traffic volumes based on various growth rates. The challenge was to develop reasonable growth rates using the Reginal 2040 TDM and determine the latent demand and influence area. Dr. Yi conducted comprehensive evaluation using Streetlight and field counts to clearly understand and revolve the problems and constraints. |
| 05/17 – 03/18 | **Kalamazoo Multi-Model Transportation Study.** Dr. Yi served as the task lead for traffic projections for the MDOT Kalamazoo Multi-modal Transportation Study. She developed advanced practice four step and activity-based TransCAD model for the study. This effort included validating existing land uses activities and proposed changes; TDM development, validation, and calibration; conducting traffic projections and evaluating alternatives using various corridor layouts. To evaluate future year various policy and scenarios, Dr Yi used Streetlight data to supplement the TDM and understand reginal travel patterns. |

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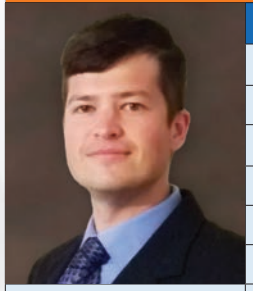
| 01/17 – 02/18 | **Illinois I-355 Planning and Environmental (PEL) Study.** Dr. Yi led the effort for the development of traffic forecasts and corridor level microsimulation. The PEL Study examined impacts of the proposed I-355 alternatives to Chicago's transportation network based on the MPO's multi-modal model performance. To validate the MPO TMD, she coordinated and interpreted actual conditions and projected land use changes. The O-D data was extracted from the TDM and used to code the VISSIM model to complete the corridor traffic analysis. Dr. Yi identified O-D distribution issues and developed solutions using data-driven approach. |
| 11/16 – 12/17 | **Gordie Howe International Bridge Traffic and Revenue Study.** As traffic lead, Dr. Yi was responsible for the traffic forecasting tasks for Winsor-Detroit Bridge Authority (WDBA). She developed travel demand models in TransCAD and Cube for traffic forecasting and risk analysis. The study challenge was to evaluate various logistics choice models based on the travel survey data. Dr. Yi analyzed survey data and compared TDM performance for the alternatives to validate the model. She also evaluated traffic forecasts to understand future travel patterns and demand. |
| 05/12 – 04/17 | **TxDOT IH 35E, NTE, SH 183, Loop 12, SH 114, Loop 1604 and US 281 Traffic and Revenue Study.** Dr. Yi served as the modeling task lead for the TxDOT DFW and San Antonio Managed Lanes traffic and revenue study. She reviewed and updated the TDM though evaluation of demographic/economic/land use data. To calibrate base year model for actual conditions, Dr. Yi did screen line analysis using Streetlight O-D data. She also used validated TDM to analyze alternatives, evaluated risk factors by testing scenarios of different transportation investments, and evaluated model performance and traffic data to develop traffic projections for future years. She also led traffic simulation study for the corridors including base year VISSIM model calibration and future year volume delay function curves conduction. |
| 02/09 – 03/14 | **NTTA System Traffic and Revenue Study.** Dr. Yi conducted traffic and revenue study for North Texas Tollway Authority (NTTA) toll roads system. She updated the reginal TDM in TransCAD, reviewed demographic/economic/land use data, refined network and traffic analysis zones (TAZ) to account for actual conditions and land use changes, performed future years traffic projections, and analyzed impact of congestion pricing. |
| Career History | Ting Yi is Senior Transportation Engineer with more than 15 years of experience in travel demand modeling (TDM) and performing complex transportation projection. She has been responsible for the refinement and application of TDM systems to evaluate potential federally funded projects at both the regional and corridor levels in Mississippi, Texas, Louisiana, Illinois, and Michigan. She led the development of TDM for traffic projection, analysis, and alternatives recommendations in Louisiana Statewide model, 2045 Mississippi Unified Long-Range Transportation Plan, TxDOT Mobility 35 Plan, Interstate 10 Corridor Study and MDOT Kalamazoo Transportation Study. She also developed the toll modeling for the traffic and revenue study in Gordie Howe International Bridge, TxDOT managed lanes projects and NTTA toll roads system. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Jonathan Duhe, PE, PTOE, RSP** | | | Years of experience with this firm/employer | 11 |
| Title | Project Engineer | | | Years of experience with other firm(s)/employer(s) | 1 |
| Degree(s) / Years / Specialization | | | BS / 2011 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 41047 / LA / 03-31-25; PTOE No. 4418; RSP No. 282 | | |
| Year registered | 2016 | Discipline | Civil Engineering | | |
| Contract role(s) / brief description of responsibilities | | | Safety Analysis | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 02/22 – Present | **W. Broussard Roundabout at Duhon Rd. (LA 724)**: This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (line and grade). Preliminary and final plans. |
| 02/20 – Present | **I-20 at LA 544 Overpass Replacement, Lincoln Parish, LA**: This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes four multilane roundabouts located in a tight project area with many constraints and large grade changes. The roundabouts will connect ramps and service roads with adjacent businesses. The project includes new bridge with sidewalk over I-20. The entire project limits are complete street compliant which means it provides facilities for all users. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more. Mr. Duhe provided signal design review. Preliminary and final plans. |
| 08/22 – Present | **LRSP Ardenwood Dr Road Diet, Baton Rouge, LA**: Project Engineer, Responsible for Data Collection (Traffic Counts and Peak Hour Observations), Traffic Forecasting, Safety Analyses, Corridor Operational Analyses (HCS, Sidra), Safety Analyses, Traffic Report Preparation |
| 07/21 – Present | **FYA Signal Improvement (LCG), Lafayette, LA**: Project Engineer. Oversaw development of signal plans to upgrade 28 intersections to include flashing yellow arrow signal heads as well as backplates. |
| 09/21 – Present | **Harding Blvd at I-110, Baton Rouge, LA**: Traffic Engineer. Performing a traffic study along Harding Boulevard between Rosewood Street and Merle Gustafson Drive including the I-110 Ramps in an effort to improve capacity. Assisted with data collection and Initial Data Collection Report. |
| 09/20 – Present | **College Drive Enhancement Project, Baton Rouge, LA**: Traffic Engineer. Performing a traffic study along College Drive between Perkins Road and Bawell Street/Bankers Avenue including the I-10 Ramps in an effort to improve capacity and safety. Assisted with data collection including peak period observations and travel time runs. Also performed safety analysis along the College Drive corridor. |
| 06/20 – Present | **I-10/12 College Drive Flyover Design Build, Baton Rouge, LA**: Traffic Engineer. Performing a traffic study at the I-10/12 merge in an effort to improve capacity and safety. Assisted with uncalibrated VISSIM model. Assisted with safety analysis and signal design. |
| 04/20 – 06/21 | **District 05 Safety Investment Plan District 05, LA**: Traffic Engineer. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation. |
| 02/19 – 03/20 | **District 07 Safety Investment Plan District 07, LA**: Traffic Engineer. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation. |
| 11/17 – 04/19 | **District 08 Safety Investment Plan District 08, LA**: Traffic Engineer. Assisted with safety analysis including reviewing crashes utilizing LaDOTD's CATScan tool and performing benefit-cost analysis of potential safety improvements. Also assisted with report preparation. |

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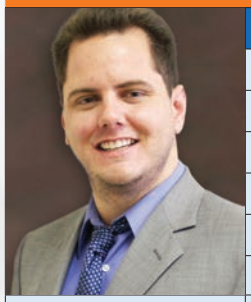
|---|---|
| 11/16 – 04/19 | **LA 385 (Ryan St) Feasibility Study, Lake Charles, LA**: Traffic Engineer. Assisted with intersection analysis including Vistro analysis. Assisted with safety analysis including reviewing crashes, creating collision diagrams, identifying conflict points, and using LaDOTD's CATScan tool to analyze safety. Also assisted with report preparation. |
| 02/16 – 10/17 | **LA 6 Feasibility Study, Natchitoches, LA**: Traffic Engineer. Assisted with intersection analysis including Sychro and Sidra analysis. Assisted with safety analysis including reviewing crashes, creating collision diagrams, and using the HSM Predictive method to analyze safety of potential alternatives. Also assisted with report preparation. |
| 02/15 – 12/17 | **US 51 Business (I-12 to Coleman) Corridor Study**: Traffic Engineer. Assisted with report preparation. |
| 06/15 – 07/16 | **LA 431 at LA 934 Intersection Improvements, Ascension Parish, LA**: Performed a traffic signal timing study for 5 intersections along LA 431 and signal design plans for the intersection of LA 431 at LA 934 in association with the proposed intersection improvements. |
| 04/18 – 06/19 | **LA 1256 Adaptive Signal System, Cameron Parish, LA**: Engineer for modification of 5 traffic signals along LA 1256 from Dave Dugas Road to I-10 in Sulphur, LA in order to implement the SynchroGreen Adaptive traffic signal system. |
| 03/20 – 06/20 | **Braud Rd at Germany Rd Temp. Signal Design, Gonzales, LA**: Project Engineer developed signal layout and timing parameters for temporary signal. Signal design included developing Clearance Calculations, utilizing Synchro for signal timing, designing in MicroStation software, developing Intersection Quantities, and creating a Traffic Signal Inventory) |
| 03/19 – 11/19 | **District 08 Signal Timing Study, Natchitoches, LA**: Project Engineer Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs |
| 03/19 – 11/19 | **US 61 Signal Timing Study, Baton Rouge, LA**: Project Engineer Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs |
| 04/19 – 11/19 | **LA 14 Signal Timing Study, Lake Charles, LA**: Project Engineer Oversaw Data Collection (TMCs, Observations, Inventory, Travel Runs, etc), Signal Warrant Analyses, Intersection Operations Analyses (Synchro), Developed new signal timing and TSIs |
| 12/19 – Present | **US 80 Feasibility Study, Stage 0/Traffic & Safety Study, Haughton, LA**: Stage 0 Report in support of safety improvements along US 80 corridor, specifically in the vicinity of Bellevue Road and Mid-South Loop Road. All analysis performed in HCS for this study. The traffic study was performed in accordance with DOTD's TEPR. Project includes signalized intersections. Oversaw Intersection Operational Analyses (HCS), safety analysis, alternative development, and traffic report preparation. |
| Career History | Jonathan joined Neel-Schaffer in 2013 and has nearly a decade of experience working on a wide range of traffic and transportation projects. He has worked on many intersection/corridor signal timing studies and signal design projects and other traffic engineering related projects for both public and private projects. He is experienced with numerous traffic engineering software packages include HCS, SYNCHRO, VISTRO, Tru-Traffic (TSPPDraft), and SIDRA. Jonathan has completed training and has experience using LADOTD's CAT Scan safety tool. He is a certified Professional Traffic Operations Engineer (PTOE), a Road Safety Professional (RSP1) and has completed LADOTD's Traffic Engineering Process and Report (TEPR) training. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Charles LeBoeuf, PE, PTOE** | | | Years of relevant experience with this employer | 10 |
| Title | Project Engineer | | | Years of relevant experience with other employer(s) | 1.5 |
| Degree(s) / Years / Specialization | | | BS / 2012 / Civil Engineering; MS / 2014 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE 0042854 / LA / 03-31-2025 | | |
| Year registered | 2018 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Traffic Forecasting & Travel Demand Modeling; Traffic Analysis; Safety Analysis | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 04/18 – 04/20 | **LA 328 (Rees Street) Corridor Study and Plan**: Project includes improving La. Hwy. 328/Rees Street from Latiolais Road to E Bridge Street including considering the impacts of the proposed E Mills Ave extension LA 328 to Doyle Melancon Ext. roadway and outreach |
| 02/22 – Present | **Pinhook Road at Kaliste Saloom Road, Lafayette, LA:** This project evaluated the conversion of the intersection of Pinhook Road at Kaliste Saloom Road from a full access signalized intersection to a quadrant intersection. For this project, Mr. LeBoeuf analyzed the proposed intersection concept in Synchro and developed signal timings and lane geometry that would reduce intersection delay. |
| 10/21 – Present | **College Drive Enhancement Project, Baton Rouge, LA:** Several off-corridor concepts were considered in the vicinity of College Drive between Perkins Road and I-10. Mr. LeBoeuf analyzed these off-corridor concepts using mesoscopic modeling to determine which concept, or group of concepts, would result in the most improvements within the study area. These improvements include a reduction in vehicle delays and shifts in traffic volumes. |
| 02/21 – Present | **I-10 and I-12 College Flyover Ramp Design-Build Project, Baton Rouge, LA:** This project documented the expected work zone impacts to I-10, I-12, and nearby surface arterials due to the construction of the College Drive Flyover. Mr. LeBoeuf analyzed the expected work zone impacts using mesoscopic modeling (Dynameq) for the first phase of construction. The impacts included queueing, shifts in traffic volumes, and traffic speeds. |
| 07/20 – Present | **MRB South GBR: LA 1 to LA 30 Connector, Baton Rouge, LA:** This project uses mesoscopic modeling to analyze a proposed new crossing over the Mississippi River from LA 1 to LA 30 between I-10 and LA 70. Mr. LeBoeuf used the existing traffic data to develop peak period volumes and travel times which were to be used in the model calibration and validation. Mr. LeBoeuf developed the Base mesoscopic model by first expanding a previous Dyanmeq mesoscopic model to include the West Bank of the Mississippi River from Baton Rouge to Donaldsonville, and then performing Dynamic Traffic Assignments using Origin-Destination (O-D) matrices. Afterwards, Mr. LeBoeuf used the existing traffic data to calibrate the Base model to better reflect existing traffic conditions. Once the Base model was finished, Mr. LeBoeuf then developed the No Build model, which included proposed highway improvements and an updated O-D matrix. This No Build model was then used as a background model to develop Bridge-specific models for each of the 20 proposed Bridge crossings. |
| 12/18 – 02/19 | **I-635 LBJ East Alternative Technical Concepts, Dallas, TX:** Alternative Technical Concepts were proposed for three interchanges associated the I-635 LBJ East Project in Dallas, TX. For this project, Mr. LeBoeuf analyzed the freeway and frontage road elements, comparing the operational changes between the original build concept and the proposed Alternative Technical Concept. |
| 01/17 – 08/18 | **I-10 Mobile River Bridge Interchange Modification Report, Mobile, AL:** This project analyzed the impacts of the new I-10 bridge crossing the Mobile River to the south of the existing I-10 Wallace Tunnels in Mobile, AL. Mr. LeBoeuf developed future peak hour volumes using the Travel Demand Model results for Mobile and Baldwin Counties for the No Build scenario, which involved no improvements to study area roadways, and for the Build scenario, which incorporated the new I-10 Mobile River Bridge, a widened I-10 Bayway from Mobile to Daphne, AL, and interchange improvements along I-10 within the study area. Mr. LeBoeuf performed intersection traffic analyses using the existing and future peak hour traffic volumes and recommended the intersection geometry for study area intersections. |

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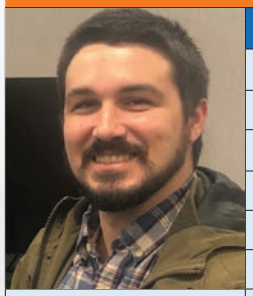
| 01/17 – 02/18 | We**stern Beltway Phase II Feasibility Study, Hattiesburg, MS**: This project determined the feasibility of extending MS 42 from I-59 to US 49 north of Hattiesburg, MS. Mr. LeBoeuf developed existing peak hour volumes and volume characteristics such as peak hour factors and heavy vehicle percentages. Mr. LeBoeuf developed future peak hour volumes using the Hattiesburg, MS Metropolitan Planning Organization's Travel Demand Model results for the No Build scenario, which involved no improvements to study area roadways, and for the Build scenario, which incorporated two roadway alignment alternatives. Mr. LeBoeuf performed intersection traffic analyses using the existing and future peak hour traffic volumes and recommended the intersection geometry for study area intersections. Mr. LeBoeuf analyzed crash data to determine crash trends and estimate the expected number of crashes for future scenarios. Mr. LeBoeuf also performed a benefit-cost analysis for each scenario using the expected number of crashes and expected changes in travel times. |
| 10/16 – 01/17 | **LA 1133 Realignment Study Carlyss, LA**. This realignment study analyzed the operational impacts of closing South Boudoin Road between Sayles Street and East Dave Dugas Road in Carlyss, LA as part of the expansion of the Westlake Chemicals Plant. Mr. LeBoeuf developed future peak hour volumes using the Lake Charles, LA Metropolitan Planning Organization's Travel Demand Model results for the No Build scenario, which kept South Boudoin Road open. Volumes for the Build scenario were developed by rerouting traffic from Boudoin Road to other roads within the study area. Mr. LeBoeuf performed intersection traffic analyses using the existing and future peak hour traffic volumes and recommended improvements for signalized and unsignalized study area intersections with the closure of South Boudoin Road. |
| Career History | Mr. LeBoeuf joined Neel-Schaffer in 2014 and has 10.5 years of experience in the engineering field, including 18 months as a Co-Op student with the Louisiana Department of Transportation and Development. Since joining Neel-Schaffer, Mr. LeBoeuf has provided a wide variety of transportation-related services, including travel demand modeling, GIS, crash analysis, traffic analysis, and mesoscopic modeling. He also has experience in the collection of turning movement counts for development projects. Mr. LeBoeuf has completed DOTD's Traffic Engineering Process and Report (TEPR) training |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Seth Popay, EI** | | | Years of relevant experience with this employer | 4 |
| Title | Project Engineer | | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | BS / 2019 / Civil Engineering | | |
| Active registration number / state / expiration date | | | EI No. 34729 / LA / 3-31-25 | | |
| Year registered | 2021 | Discipline | N/A | | |
| Contract role(s) / brief description of responsibilities | | | Traffic & Safety Analyses; Data Collection | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 12/20 – Present | **College Dr. Enhancement Project (MOVEBR) Baton Rouge, LA**: Engineer Intern. Performing a traffic study along College Drive between Perkins Road and Bawell Street/Bankers Avenue including the I-10 Ramps in an effort to improve capacity and safety. Assisted with data collection including travel time runs and collecting crash reports. Also assisted with performing a safety analysis using LADOTD's Cat Scan safety tool. |
| 01/21 – 03/21 | **District 05 Safety Investment Plan, Monroe, LA**: NSI evaluated crash history on the state and local highway network to identify potential roadway issues as well as potential infrastructure and operations safety countermeasures for nine parishes in DOTD District 05. Reviewed crash reports and data to be converted into one-page summaries of the segments and intersections involved in the study. |
| 12/20 – Present | **Proposed Ouachita Middle School TIS, Statewide, LA**: NSI performed a Traffic Impact Study (TIS) for Ouachita Parish School Board. The proposed middle school was to be located on the corner of a proposed development. Helped with data collection of turning movement counts (TMC) and peak hour observations. HCS software was used to analyze turn lane movements and proposed driveways. Engineer Intern |
| 12/20 – 02/21 | **Ellis Estates TIS, Denham Springs, LA**: NSI performed a Traffic Impact Study (TIS) for NOCO, LLC. The new development is to be located on the south side of Buddy Ellis Road in Livingston Parish, LA. This was a Threshold 2 study based off Livingston Parish's Traffic Impact Policy, which aimed at analyzing the proposed access to the proposed site. Trip generations were constructed based off existing and future condition volumes. Turn lane and intersection analysis was conducted using HCS software. Determined roundabout capacity and Level of Service (LOS) of the intersection of Buddy Ellis Ln at Juban Road using Sidra Intersections. Engineer Intern |
| 01/22 – Present | **N 5th St – N 6th St Traffic Study, Monroe, LA**: Engineer Intern. Performed a safety analysis of the two corridors as well as a safety analysis of the major intersections along both corridors using LADOTD's Cat Scan safety tool. |
| 01/21 – Present | **I-10 ITS Scott to Lake Charles, Statewide, LA**: NSI performed various engineering design and ITS analysis for CCTV cameras along I-10 corridor. These tasks included detailed analysis, CAD drafting, and cost estimates of materials. Developed CAD plan sheets of CCTV camera pole locations and line work for various conduits/cables. Detail sheets were created for finalized 60% plans. Engineer Intern |
| 10/21 – Present | **FYA Signal Improvements, Lafayette, LA**: NSI performed intersection inventory of requested signals in the city of Lafayette. The new signal inventory was used to develop new TSIs (Traffic Signal Inventory) as well as recommend the requested modifications to the signals that need upgrading. Engineer Intern |
| 03/21 – Present | **Synchronization and Communication Signal Rebuilds – Group 3, Baton Rouge, LA**: MOVEBR identified six signals for group 3 that needed improvements. NSI evaluated crash history at the project intersections to identify potential roadway issues as well as potential safety countermeasures. HCS software was used to analyze the roadway network and develop new signal timings. Developed and designed CAD sheets to upgrade the existing intersection equipment to current design standards. Engineer Intern (Synchro, Clearance Calcs, AutoTurn, MicroStation) |

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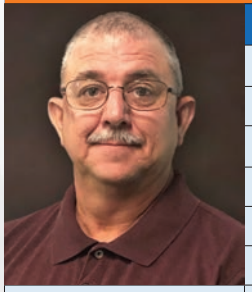
| 08/21 – Present | **Synchronization and Communication Signal Rebuilds Phase 2 – Group 4, Baton Rouge, LA**: MOVEBR identified six signals for group 3 that needed improvements. NSI evaluated crash history at the project intersections to identify potential roadway issues as well as potential safety countermeasures. HCS software was used to analyze the roadway network and develop new signal timings. Developed and designed CAD sheets to upgrade the existing intersection equipment to current design standards. Engineer Intern (Synchro, Clearance Calcs, AutoTurn, MicroStation) |
| 03/21 – Present | **Signal Timing Analysis and Corridor Study for Hwy 6, Missouri City, TX**: NSI performed data collection along a corridor section of highway 6 in Missouri City, Texas. Synchro software was utilized to analyze the existing signal timings along the corridor section as well as develop new recommended timings for the signals along the corridor. Engineer Intern |
| 08/21 – 02/22 | **LA 16 Access McDonalds/ Urgent Care TIS, Watson, LA**: Engineer Intern. Assisted with data collection including peak hour observations and TMC counts. Performed turn lane analysis and intersection analysis. (HCS software) |
| 02/22 – Present | **Patriots Point Mixed Use Development TIS, Watson, LA**: Engineer Intern. Performed trip generation as well as trip distribution. Assisted with turn lane analysis and intersection analysis. (HCS software) |
| 12/21 – 01/22 | **LA 1256 Corridor Study, Lake Charles, LA**: Engineer Intern. Collected and reviewed crash reports. Assisted with safety analysis for three intersections along LA 1256 corridor using LADOTD's Cat Scan safety tool. |
| Career History | Mr. Popay is an Engineer Intern with experience in multiple traffic and safety engineering software packages including HCS, SYNCHRO, Vissim, SIDRA and LADOTD's CAT Scan safety tool. Mr. Popay has completed DOTD's Traffic Engineering Process and Report (TEPR) training |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Lonny Territo** | | | Years of relevant experience with this employer | 10 |
| Title | Senior Technician | | | Years of relevant experience with other employer(s) | 9 |
| Degree(s) / Years / Specialization | | | N/A | | |
| Active registration number / state / expiration date | | | N/A | | |
| Year registered | N/A | Discipline | N/A | | |
| Contract role(s) / brief description of responsibilities | | | Data Collection | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 05/15 – Present | **LA 328 Stage 0 Traffic & Safety Study**: Develop to traffic and safety analysis of the LA 328 in proximity to I-10 in St. Martin Parish. Performed traffic counts and, Breaux Bridge, LA: traffic controller downloads. |
| 06/14 – Present | **Baton Rouge Computerized Signalization, Phases IV and V**: Performed traffic engineering, signal design and construction services in support of the City of Baton Rouge computerized signalization. Phase IV included 21 intersections and Phase VA included 23 intersections. Phase VB which is currently in the design phase includes 24 intersections. Performed traffic counts and traffic controller downloads. |
| 09/14 – 01/18 | **District 02 Traffic Signal Inventory Retainer Contract: LA 39, LA 46 & LA 47 Corridor Improvements (28 intersections):** Performed traffic counts and traffic controller downloads. |
| 09/14 – 01/18 | **District 02 Traffic Signal Inventory Retainer Contract, LA 39, LA 46 & LA 3021 Corridor Improvements (26 intersections):** Performed traffic counts and traffic controller downloads. |
| 09/14 – 01/18 | **District 02 Traffic Signal Inventory Retainer Contract: I-610, I-10, US 90 & LA 3021 Corridor Improvements (17 intersections)** (4400004829 Task Order H.011649.5) Performed traffic counts and traffic controller downloads. |
| 09/14 – 01/18 | **District 02 Traffic Signal Inventory Retainer Contract: US 90, US 61 & LA 611-9 Corridor Improvements (20 intersections):** Performed traffic counts and traffic controller downloads. |
| 09/14 – 01/18 | **District 02 Traffic Signal Inventory Retainer Contract: US 61 & LA 3154 Corridor Improvements (23 intersections)**: Performed traffic counts and traffic controller downloads. |
| 08/14 – 08/17 | **Retainer Contract for Traffic Signal Engineering, US 80 Traffic Control Signal Upgrades**: Provided signal design plans and signal timing plans at 20 intersections along US 80 in Shreveport, LA. Performed traffic counts and traffic controller downloads. |
| 07/14 – 12/14 | **Baton Rouge Computerized Signalization Phase VA**: Phase VA included 23 intersections, performed construction inspection in support of the City of Baton Rouge computerized traffic signal synchronization system. Performed construction inspection as the Resident Project Representative. |
| 12/14 – 05/15 | **Retainer for Signal Timing Studies Districts 61, 62 & 02: LA 3040/LA 20/LA 57, Houma/Thibodaux (25 intersections)**: Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads. |
| 12/14 – 05/15 | **Retainer for Signal Timing Studies Districts 61, 62 & 02: US 11, Slidell, LA (16 intersections)**: Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads. |

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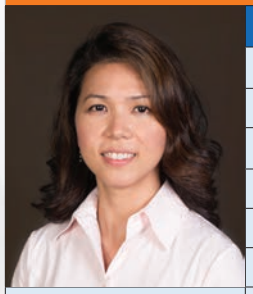
| 12/14 – 05/15 | **Retainer for Signal Timing Studies Districts 61, 62 & 02, LA 44, Gonzales, LA (10 intersections)**: Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads. |
| 12/14 – 05/15 | **Retainer for Signal Timing Studies Districts 61, 62 & 02, LA 19, Baker, LA (10 intersections)**: Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads. |
| 12/14– 05/15 | **Retainer for Signal Timing Studies Districts 61, 62 & 02, US 425, Vidalia/Ferriday, LA (11 intersections)**: Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads. |
| 12/14 – 05/15 | **Retainer for Signal Timing Studies Districts 61, 62 & 02, LA 3124/LA 60/LA 10/LA 16, Bogalusa, Amite, Franklinton, Kentwood, Amite, LA (32 intersections)**: Developed an Initial Data Collection Report, a Final Data Collection Report, a Recommended Signal Timing Report with new TSI's, and for implementing the recommended signal timings in the field. Performed traffic counts and traffic controller downloads. |
| Career History | Lonny joined Neel-Schaffer in 2013 and has nearly 20 years of experience as a technician and resident project representative. He has provided construction inspection services and traffic counts and traffic controller downloads for a wide variety of projects, including intersection improvements and traffic studies. |
| Certifications | ATTSA – Traffic Control Supervisor<br>ATSSA – Registered Flagger<br>IMSA/FOA Certified Fiber Optic Technician<br>IMSA - Work Zone Temporary Traffic Control Technician<br>IMSA – Traffic Signal Inspector Level 1<br>IMSA - Traffic Signal Design/Engineering Level II<br>IMSA - Traffic Signal Senior Field Technician Level III. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Mai Nguyen, PE** | | | Years of relevant experience with this employer | 8 |
| Title | Roadway Design Engineer | | | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | | BS / 2008 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 38189 / LA / 03-31-2024 | | |
| Year registered | 2013 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Concept Plans **MPR 3** | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 03/19 – 04/20 | **LA 328 (Rees Street) Corridor Study and Plan:** Checked geometry for project includes improving La. Hwy. 328/Rees Street from Latiolais Road to E Bridge Street including considering the impacts of the proposed E Mills Ave extension LA 328 to Doyle Melancon Ext. roadway and outreach |
| 01/20 – Present | **I-20: LA 544 Overpass Replacement, Lincoln Parish, LA**: lead for road design preliminary and final design services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond multilane roundabout interchange on a 3% longitudinal grade. The new bridge over I-20 will include sidewalks and four multilane roundabouts. This project includes a level 2 TMP. |
| 08/17 – 03/20 | **LA 73 Turn Lanes**: This project will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The roadway and drainage design were completed in accordance with LADOTD guidelines |
| 9/22 – Present | **E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks. Mai is designing this project and assisting with plan production. Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more. Ms. Nguyen is working on the roadway design for the City of Youngsville. Project includes preliminary and finals plans. |
| 02/22 – Present | **W. Broussard Roundabout at Duhon Rd. (LA 724)**: This project will construct a roundabout and required drainage improvements. Review of design, assist with plan production. Preliminary plans completed. Final design ongoing. |
| 12/22 – Present | **LA 89 @ Guillot Rd Improvements**: Existing drainage determination, proposed drainage design and plan preparation. Includes roundabouts. |
| 08/22 – Present | **LA 89 at Chemin Metairie Parkway, Youngsville, LA**: This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89. Mai is working on the roadway design for the City of Youngsville. Project includes preliminary and final plans. |
| 01/11 – 01/14 | **LA 447 Corridor Study, Walker, LA (LA 16 to US 190)**: Corridor study to evaluate corridor improvements along LA 447 between LA 16 and burgess Ave. Project included the interchange at I-12. Includes multilane roundabouts |
| 09/14 – 08/15 | **LA 16: Roundabout @ LA 447, Livingston, LA**: Responsible for developing roundabout preliminary roadway plans in accordance with LaDOTD design guidelines, creating horizontal and vertical alignment layouts, modeling roadway to determine required right-of-way limits, developing sequence of construction, and perform hydraulic analysis. |
| 04/18 – Present | **I-49 South at Verot School Road**: This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (drainage, preliminary and final road design and TMP) as well as the drainage along these corridors. NSI is also completing the traffic design. Includes roundabout |

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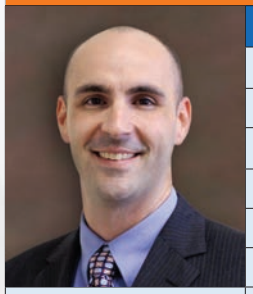
| 11/15 – 07/20 | **Southcity Parkway Extension, Lafayette, LA**: This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three multilane roundabout intersections and new bridge design. The roadway and drainage design are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design (preliminary and final plans)and traffic services. |
| 02/17 – 06/17 | **LA 6 (I-49 Interchange to LA 3278) Corridor Study in Natchitoches, LA**: LA 6 Corridor Study Includes analysis of proposed roundabout interchange (3 roundabouts) geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study. |
| 07/15 – Present | **US 90 Pearl River Bridges Environmental Assessment, St. Tammany Parish, LA and Hancock County, MS**: Project includes the replacement of five bridges. This project also includes roundabout intersections. Project Engineer for over 75 line and grade alternatives. Developed horizontal and vertical alignments, considering required drainage and ROW requirements were developed and analyzed for potential environmental impacts and costs. Includes a roundabout intersection |
| 05/12 – 10/14 | **LA 44 Intersection Improvement @ LA 934, Ascension, LA**: Responsible for developing roadway plans in accordance with LaDOTD design guidelines, performing sub-surface drainage calculations, creating horizontal and vertical alignment layouts, modeling roadway to determined required right-of-way limits, and calculating quantities and cost estimates for bidding. |
| 08/17 – 07/18 | **I-10 New Orleans Master Plan**: Provided engineering support in development of horizontal and vertical alignments of roadways, and geometric layouts of traditional interchanges, with multiple bridges, alternative intersections, ramps, roundabouts, and HOV lanes to provide access to the Port of New Orleans. |
| 09/15 – 10/17 | **LA 22 (Dalwill to Rodger Storm) Corridor Study**: Includes analysis of six roundabout geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study. |
| 06/13 – Present | **Stage 0 Feasibility Study Modern Roundabouts, Lafayette, LA**: Road alignment, roundabout layout, and design, preparing cost estimates. 23 separate roundabout projects |
| 02/15 – 12/16 | **US 51 Business Corridor Study (I-12 to Coleman)**: Includes analysis of three roundabout geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study. |
| 02/15 – 10/16 | **US 51 Corridor Study (W University to I-55)**: Includes analysis of eight roundabout geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study. |
| 09/14 – 08/15 | **LA 27 turn lane improvements, Cameron and Calcasieu, LA**: Responsible for developing roadway plans following LADOTD design guidelines at three turn lanes along LA 27 at LGN plant entrances. Served as utility coordinator, and provided engineering support during construction. Also, responsible for developing utility agreement packages as part of utility coordination phase. The tasks included communication, site visitation and coordination with countless utility companies, LNG facility personnel and LADOTD to seamlessly reduce and address utility conflicts. Also, assisted the Contractor with design associated with concrete barrier, provided working drawings to assist with construction activities, and provided commercial driveway detail drawings and design at locations with large grade changes. |
| Career History | Mai has over 14 years of experience as a Roadway Design Engineer, including over six years working for LADOTD roadway design. She is proficient with modeling and developing roadway plans in accordance with LADOTD design guidelines. She has completed numerous roadway construction plans, including roadway alignments, cross sections, geometric details, graphical grades, drainage design, construction sequencing, striping, and signing layout, and cost estimates. She also has completed countless interchange geometric designs, roundabouts, and unconventional intersections following AASHTO and LADOTD design guidelines. She is experienced with utility coordination, creating detour plans, and working with Contractors and LADOTD Engineers to ensure the project is constructed according to plans. She has been involved with preliminary and final roadway design plans, feasibility studies, stage 0 re-ports, environmental assessment study, roadway concept layouts for traffic studies, develop high level cost estimates for multiple District Safety Investment Plans. She is Certified as a Work Zone Traffic Control Supervisor, Technician and Flagger. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Scott Andrepont, PE** | | | Years of relevant experience with this employer | 11 |
| Title | Project Engineer | | | Years of relevant experience with other employer(s) | 4 |
| Degree(s) / Years / Specialization | | | BS / 2005 / Civil Engineering; MS / 2007 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 37107 / LA / 09-30-2024 | | |
| Year registered | 2012 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Concept Plans & Road Design **MPR 3** | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 03/19 – 04/20 | **LA 328 (Reese Street) Stage 0:** Mr. Andrepont created the geometry for this project which would improve LA 328 from Latiolais Drive to E. Bridge St. Signalized and roundabout intersections were considered. Mr. Andrepont completed the design criteria, typical sections, and geometry in accordance with the requirements of DOTD. He also assisted with public outreach activities. Includes 3 roundabouts. |
| 08/17 – 03/20 | **LA 73 Turn Lanes**: This project will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The roadway and drainage design were completed in accordance with LADOTD guidelines |
| 09/22 – Present | **E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing Roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks, as well as preliminary and finals plans. |
| 02/22 – Present | **W. Broussard Roundabout at Duhon Rd. (LA 724)**: This project will construct a roundabout and required drainage improvements. Includes roundabout. Design services. Preliminary plans completed. Final design ongoing. |
| 12/22 – Present | **LA 89 @ Guillot Rd Improvements**: Existing drainage determination, proposed drainage design and plan preparation. Includes roundabouts. Included tasks similar to a line and grade, preliminary and final design included. |
| 08/22 – Present | **LA 89 at Chemin Metairie Parkway, Youngsville, LA**: This project will provide a new two-lane connector roadway with drainage between Chemin Metairie Parkway and LA 89. Project includes preliminary and finals plans. |
| 01/11 – 01/14 | **LA 447 Corridor Study, Walker, LA (LA 16 to US 190)**: A corridor study to evaluate corridor improvements along LA 447 between LA 16 and burgess Ave. Project included the interchange at I-12. Includes multilane roundabouts |
| 09/09 – 08/12 | **LA 182 (North University Avenue) Widening, I-10 to West Pont des Mouton Road - Stage 0 Feasibility Study and Environmental Assessment (EA)** Route, Lafayette Parish, LA: Road alignment, preparing scope for utility and topographic survey, roundabout layout and design, and plan preparation. Project Engineer. Includes roundabouts. |
| 11/19 - Present | **IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62)**: This project will provide safety improvements for four parishes within three Districts. The tasks included under this project are Stage 0 Feasibility Studies, Planning/Environmental, Design and construction related engineering. Mr. Andrepont is assisting with the roadway and drainage plan production and design. |
| 09/09 – 08/12 | **N. University Ave. Widening, Lafayette, LA**: Road alignment, preparing scope for utility and topographic survey, roundabout layout and design, and plan preparation. Project Engineer |
| 11/15 – 07/20 | **Southcity Parkway Extension, Lafayette, LA**: This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three multilane roundabout intersections and new bridge design. The roadway and drainage design are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services. |

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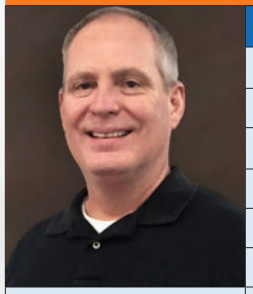
|---|---|
| 01/20 – Present | **I-20: LA 544 Overpass Replacement, Lincoln Parish, LA**: NSI is completing the preliminary and final design services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and four multilane roundabouts. This project includes a level 2 TMP. |
| 11/13 - 04/15 | **US 90 (Future I-49) LA 318**: Project Engineer supporting Interchange DB Project Road profiles, roundabout design, preparation of cost estimates. Project Engineer. Includes roundabout. |
| 04/18 – Present | **I-49 South at Verot School Road**: This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (drainage, preliminary and final road design and TMP) as well as the drainage along these corridors. NSI is also completing the traffic design. Includes roundabouts. |
| 08/12 – 03/19 | **Juban Road Widening**: NSI managed the completion of the roadway and drainage design services for this project, which will widen LA 1026 (Juban Rd.), construct three roundabouts and two new frontage access roadways, with storm drainage sewer systems. |
| 06/13 – Present | **Stage 0 Feasibility Study Modern Roundabouts, Lafayette, LA**: Road alignment, roundabout layout, and design, preparing cost estimates. Project Engineer. Includes 23 roundabouts. |
| 03/15 - Present | **Mandeville Bypass, St. Tammany Parish LA**: Assisted in geometric layout of roadway and development of alternatives. Includes roundabout geometry intersections with LA 1088 and US 190. Road Design Assistance. Includes 4 roundabouts. |
| 03/19 – 04/20 | **LA 328 (Reese Street) Stage 0**: Created the geometry for this project which would improve LA 328 from Latiolais Drive to E. Bridge St. Signalized and roundabout intersections were considered. Scott completed the design criteria, typical sections, and geometry in accordance with the requirements of DOTD. He also assisted with public outreach activities. Includes 3 roundabouts. |
| 10/18 – 05/19 | **LA 182/Stone Ave. Right Turn Lane, Lafayette, LA**: Led the construction administration for the turn lane installation, roadway improvements, drainage, and signage. Design completed within project limits. |
| 03/17 – 04/17 | **LA 27/LA 1256 Turn Lane Construction, Cameron Parish, LA**: Assisted with the construction administration for the turn lane installation, signage, and roadway improvements. |
| 01/12 – 04/12 | **City of Walker - Bridge Replacement Study, Walker, LA**: Completed site visits to multiple bridges. He was charged with verifying the condition of bridges, prioritizing the necessary replacement of each bridge in comparison to the others, and estimating cost of replacement |
| 04/20 – Present | **US 90 and FM 481 Improvement, Kinney County, TX**: QA/QC of Striping, Singing, and High Friction Surface course plans. |
| 09/09 – 08/12 | **N. University Ave. Widening, Lafayette, LA**: Road alignment, preparing scope for utility and topographic survey, roundabout layout and design, and plan preparation. Project Engineer |
| 07/13 – 09/13 | **LA 1088 Traffic Corridor Study for LA DOTD in St. Tammany Parish, LA**: Assisted in the geometric layout for 3 Alternatives for the improvements of LA 1088. Each alternative included roundabouts at determined intersection with J-turns as well as complete streets with combinations of bike paths/multi-use paths / sidewalks along the corridor. Design Assistance. Includes roundabouts. |
| Career History | Mr. Andrepont is a design engineer and has been assigned to a variety of projects which include safety projects, roadway design, drainage design, foundation design and other civil engineering projects. His duties include design and analysis, preparation of construction plans, and specifications. He also has experience providing engineering design support during construction. He is also an ATSSA – Work Zone TCS/TCT/Flagger. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Stephen Perault** | | | Years of relevant experience with this employer | 5 |
| Title | Senior Technician | | | Years of relevant experience with other employer(s) | 33 |
| Degree(s) / Years / Specialization | | | N/A | | |
| Active registration number / state / expiration date | | | N/A | | |
| Year registered | N/A | Discipline | N/A | | |
| Contract role(s) / brief description of responsibilities | | | Concept Plans & Road Design Support | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 03/19 – 04/20 | **LA 328 (Rees Street) Corridor Study and Plan:** Provided CAD support for project that included improving La. Hwy. 328/Rees Street from Latiolais Road to E Bridge Street including considering the impacts of the proposed E Mills Ave extension LA 328 to Doyle Melancon Ext. roadway and outreach |
| 08/17 – Present | **Mandeville Bypass, Mandeville, LA**: This project will provide a new 3 Mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park. Includes multiple multilane roundabouts. |
| 09/22 – Present | **W. Broussard Road @ Duhon Roundabout, Lafayette Parish, LA**: This project will provide a single lane roundabout at Duhon Rd./W. Broussard Rd. intersection and includes curb and gutter with sidewalks. Steve is assisting with plan production. Tasks like Line and Grade, Preliminary plans completed and final plans are on-going: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations, as well as prelminary and final plans. |
| 09/22 – Present | **E. Milton Ave Improvements, Lafayette Parish, LA**: This project will widen an existing roundabout at E. Milton Ave./Chemin Metairie Rd intersection from single lane to multi-lane and widen and overlay E. Milton Ave. and Chemin Metairie Rd. in Youngsville, LA. This project includes curb and gutter with sidewalks. Stephen is providing design support and assisting with plan production. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations, as well as prelminary and final plans |
| 12/14 – 08/17 | **LA 447 Corridor Study**: This Project would widen LA 447 between La 16 and Burgess Ave. Assisted with plan production and the geometric design for the R-Cut and roundabout improvements. |
| 12/17 – Present | **Southcity Parkway Extension, Lafayette, LA**: This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. It includes three multilane roundabout intersections and new bridge design. The roadway and drainage design are being completed in conformance with LADOTD guidelines. NSI provided public outreach, environmental, road design and traffic services. |
| 08/17 – 03/19 | **Juban Road Widening**: Road design for the completion of the roadway and drainage design services for this project, which will widen LA 1026 (Juban Rd.), construct three roundabouts and two new frontage access roadways, with storm drainage sewer systems. |
| 02/20 – Present | **I-20: LA 544 Overpass Replacement, Lincoln Parish, LA**: road design support for the preliminary and final design services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and four multilane roundabouts. This project includes a level 2 TMP. |
| 08/17 – Present | **Ham Reid at LA 3092 Intersection Improvements**: This project will construct a roundabout at the intersection of LA 3092 and Ham Reid Road. The roadway and drainage design were completed in accordance with LADOTD guidelines. |
| 08/17 – 03/20 | **LA 73 Turn Lanes**: This project will construct turn lanes at multiple locations along LA 73 in Ascension Parish. The roadway and drainage design were completed in accordance with LADOTD guidelines |

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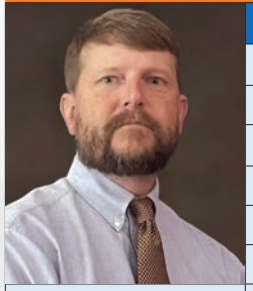
|---|---|
| 04/18 – Present | **I-49 South at Verot School Road**: This project which will construct 2.4 miles of mainline freeway, bridges, and an interchange at the intersection of I-49 South/US 90 and Verot School Road. Work includes a major bridge design and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is designing the interstate mainline and frontage roadways (drainage, preliminary and final road design and TMP) as well as the drainage along these corridors. NSI is also completing the traffic design. |
| 11/19 – Present | **IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62)**: This project will provide safety improvements for four parishes within three Districts. The tasks included under this project are Stage 0 Feasibility Studies, Planning/Environmental, Design and construction related engineering. Mr. Perault is providing design support and is assisting with plan production. |
| Career History | Stephen has over 35 years' experience in roadway design which includes the design of over 30 roundabout projects and design support for roadway projects (turn lanes, new roadway corridors, widening, interstates and more). He retired from LADOTD in 2015 and has worked in the private sector since then. His capabilities include:<br>• Stage 3 (Engineering) design and drafting of complete LA DOTD roadway plans for Engineer review and stamp.<br>• Draft and design on LA DOTD Stage 0 (Feasibility) and Stage 1 (Environmental) projects.<br>• FEMA disaster recovery work.<br>• Extensive knowledge of Inroads, Microstation, Descartes, Storm and Sanitary CAD, Cadconform and ProjectWise software & LADOTD's Hydwin design programs.<br>• Perform QA/QC review of roadway plans.<br>• Completing NOI permit applications and Constructability/Biddability forms.<br>• Draft design exceptions, processes plan revisions and change orders.<br>His project experience at LADOTD includes:<br>• **US 190: Roundabout at Eden Church RD**. Project included a 3-legged Roundabout at the intersection of US 190 and Eden Church Rd. Responsible for the design and development of preliminary and final roadway plans and prepared the construction cost estimate.<br>• **LA 637: Port of S. Louisiana Connector** Responsible for the design and development of preliminary and final roadway plans for the widening of LA 637 from 2 to 3 lanes and prepared the construction cost estimate.<br>• **Existing 3-Lane to Contraband Bayou Bridge** Designer of the preliminary and final roadway plans that involved the widening on LA 1138-2 from 2 to 3 lanes and a 3-legged Roundabout at the intersection of Holly Hill Road and LA 1138-2 and assisted with the construction cost estimate.<br>• **Denham Springs** – Watson Designed the roadway for the widening of LA 16 from 2 to 4 lanes. Responsible for the development of preliminary and final roadway plans and prepared construction cost estimate. |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Phil Graves, PE** | | | Years of relevant experience with this employer | 2 |
| Title | Senior Project Manager | | | Years of relevant experience with other employer(s) | 25 |
| Degree(s) / Years / Specialization | | | BS / 1997 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 29640 / LA / 09-30-2025 | | |
| Year registered | 2001 | Discipline | Civil Engineering | | |
| Contract role(s) / brief description of responsibilities | | | Construction Support | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 02/22 – Present | **W. Broussard Roundabout at Duhon Rd. (LA 724)**: This project will construct a roundabout and required drainage improvements. Performed Constructability and Biddability reviews of the plans. Preliminary and final road design. |
| 09/22 – Present | **E. Milton Ave. Roundabout Widening and Corridor Improvements, Youngsville, LA**: Constructability and Biddability reviews. Project includes line and grade tasks (establish design criteria, develop typical sections, horizontal geometry, vertical geometry), preliminary and final plans for a 1.1-mile project at intersection of Chemin Metairie Road and E. Milton Avenue. This project includes adding a two-way left turn lane to existing 2-lane and convert a single roundabout to multilane roundabout. The corridor includes subsurface drainage, restricted crossing U-turn, and raised median to prevent left turn movements. Preliminary and final road design. |
| 02/22 – Present | **I-20: LA 544 Overpass Replacement, Lincoln Parish, LA**: NSI is designing the preliminary and final design services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and four multilane roundabouts. This project includes a level 2 TMP. Project includes line and grade tasks (establish design criteria, develop typical sections, horizontal geometry, vertical geometry) Constructability and Biddability reviews. Preliminary and final road design. |
| 10/09 – 04/12 | **I-55 Rehabilitation, Tangipahoa Parish, LA**: Area Engineer. As Area Engineer helped oversee four separate projects that rubbilized and overlaid Interstate 55 from US 51 (Morrison Boulevard) to the Mississippi state line. The rubbilization process is a complex technique that breaks existing concrete into small pieces, creating a better base for the asphalt overlay. |
| 02/15 – 02/16 | **I-12 Interchange Improvements, Tangipahoa Parish, LA**: Area Engineer. Converted the conventional signalized on/off ramps of I-12 at US 51-X to roundabout configurations (two total) and installed a roundabout at the intersection of US 51-X and Club Deluxe Road. |
| 02/15 – 04/16 | **LA 637 (W. 10th Street) Widening Project, St. John the Baptist Parish, LA**: Area Engineer. Provided widening services for LA 637 from US 61 (W. Airline Hwy) to LA 44 (River Road, including new subsurface drainage system. |
| 11/10 – 11/11<br>08/16 – 08/17<br>10/19 – 05/22 | **Safety Cable Barrier Installation Projects, Tangipahoa, St. John the Baptist, and Livingston Parishes, LA**: Area Engineer. Area Engineer for three separate projects that installed safety cable barriers along I-12, I-10, and I-55 in Tangipahoa, St. John the Baptist, and Livingston parishes. |
| 01-03 – 12/04 | **LA 964 Widening, East Baton Rouge Parish, LA**: Project Engineer. Project Engineer for this project that reconstructed and realigned LA 964 from US 61 (Scenic Hwy) to LA 64 (Church Street). |
| 08/02 – 12/04 | **Intelligent Transportation Systems (ITS), Phases 1 and 2, East Baton Rouge Parish, LA**: Project Engineer. Project Engineer for two separate projects that installed ITS devices, fiber, and buildings and tied it in to the Transportation Management Center (TMC). |

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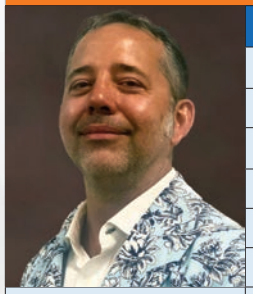
|---|---|
| 03/05 – 06/06 | **US 61 (Airline Hwy) Intersection Improvements, East Baton Rouge Parish, LA**: Project Engineer. Project Engineer for this intersection conversion project. Converted the conventional 4-way signalized intersection to a Continuous Flow Intersection (CFI) at LA 3246 (Siegen Lane). |
| 08/06 – 08/07 | **LA 19 (Main Street) Widening Project, East Baton Rouge Parish, LA**: Project Engineer. Project Engineer for project to widen LA 19 from Lavey Lane to Wimbish Drive. |
| 03/06 – 03/07 | **US 61 (Airline Hwy) Widening Project, East Baton Rouge Parish, LA**: Project Engineer. Widened US 61 from LA 73 (Jefferson Hwy) to US 190 (Florida Blvd). |
| 12/06 – 01/09 | **LA 946 (Joor Road) Widening, East Baton Rouge Parish, LA**: Project Engineer. Project Engineer for this project to reconstruct and realign LA 946 from Mickens Road to LA 408 (Hooper Road), including the construction of a new bridge over the Comite River |
| 10/09 – 02/12 | **I-55 Rehabilitation, Tangipahoa Parish, LA**: Area Engineer. Helped oversee four separate projects that rubbilized and overlaid Interstate 55 from US 51 (Morrison Boulevard) to the Mississippi state line. The rubbilization process is a complex technique that breaks existing concrete into small pieces, creating a better base for the asphalt overlay. |
| Career History | Mr. Graves joined Neel-Schaffer in 2022 and serves as a Senior Project Manager based in the firm's Baton Rouge (LA) office. Phil joined Neel-Schaffer shortly after retiring from the Louisiana Department of Transportation and Development after 25 years of service, the last 13 as the District 62 Area Engineer in Livingston and St. Helena parishes. He will be a part of Neel-Schaffer's Louisiana Transportation Department, providing quality assessment/quality control and constructability reviews. He will also help the firm expand and develop its Construction Engineering and Inspection services throughout Louisiana in both the Transportation and Water Resources sectors. Phil has extensive experience in laboratory sampling and testing, roadway and bridge construction oversight and management, roadway and bridge maintenance management, roadway structure design, and roadway preservation management |

## 16. STAFF EXPERIENCE



| Firm employed by Neel-Schaffer, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Gary LeBlanc, PE** | | | Years of relevant experience with this employer | 1 |
| Title | Project Engineer | | | Years of relevant experience with other employer(s) | 23 |
| Degree(s) / Years / Specialization | | | BS / 1994 / Civil Engineering | | |
| Active registration number / state / expiration date | | | PE No. 28220 / LA / 09-30-2025 | | |
| Year registered | 1999 | Discipline | Civil | | |
| Contract role(s) / brief description of responsibilities | | | Road QA/QC | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 07/23 – Present | **US 90 Roundabout at LA 101**: Providing QA/QC for improvements to the safety of the intersection by upgrading a two-way stop intersection into a single lane roundabout. The roundabout is being designed using LADOTD and FHWA guidelines. This is a single lane roundabout that will comfortably accommodate WB-67 since this intersection is a detour route for I-10. This project includes pavement signing and striping, drainage improvements, access management, construction sequencing, and cost estimates for bidding. |
| 10/22 – 10/23 | **East-West Connector (Winfield Road Congestion Relief)**: NSI Performed a Traffic Study and Line and Grade for a new east-west corridor through Bossier Parish. Gary completed the Traffic Study for the project and all intersection analyses for the four major intersections. Includes multilane Roundabouts. |
| | **Winfield Road Extension Project:** Project will provide new four-mile connector roadway between LA 1 at Belleview. NSI will provide road design services. Gary will provide QA/QC. |
| 12/23 – Present | **LA 384 Feasibility Study**: QA/QC Capacity analysis and supporting documents |
| | **I-69 SUI 13 Road Design Services for ARDOT**: NSI is contracted with ARDOT to provide roadway and drainage design services for a 30 Mile new segment of I-69 with multiple interchanges near Monticello. Mr. LeBlanc is providing QA/QC for the roadway design. This corridor will be constructed in phases to allow it to advance as funding is available. Neel-Schaffer will produce this design as separate design packages. |
| 07/22 – Present | **I-20: LA 544 Overpass Replacement, Lincoln Parish, LA**: NSI is completing the preliminary and final design services for this project, which will replace the LA 544 Overpass diamond interchange with a diamond roundabout interchange. The new bridge over I-20 will include sidewalks and four multilane roundabouts. This project includes a level 2 TMP. Project includes line and grade tasks (establish design criteria, develop typical sections, horizontal geometry, vertical geometry). |
| 04/22 – Present | **I-49 South at Verot School Road**: Provided QA/QC for this project which will construct 2.4 miles of mainline freeway and interchange at the intersection of I-49 South/US 90 and Verot School Road. This project includes the design of a major bridge crossing at Verot Rd. and I-49, and a roundabout at the relocated intersection of Verot Rd and South Collage Rd. NSI is serving as the subconsultant for this project and designing the mainline and frontage roadways and associated a drainage. Project includes preliminary and final plans as well as signals. |
| 07/22 – Present | **W. Broussard Roundabout at Duhon Rd. (LA 724)**: This project will construct a roundabout and required drainage improvements. Includes roundabout. Completed the horizontal and vertical alignments (Preliminary and final design). |
| 07/22 – Present | **E. Milton Ave. Roundabout Widening and Corridor Improvements, Youngsville, LA**: QA/QC this project includes a line and grade, preliminary and final plans for a 1.1-mile project at the intersection of Chemin Metairie Road and E. Milton Avenue. This project includes adding a two-way left turn lane to existing 2-lane and convert a single roundabout to multilane roundabout. The corridor includes subsurface drainage, restricted crossing U-turn, and raised median to prevent left turn movements. |

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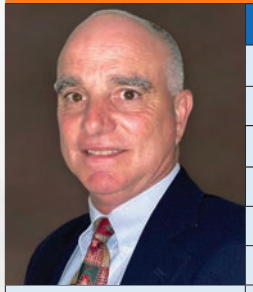
|---|---|
| 6/22 – Present | **Jimmie Davis Bridge (LA 511) (HBI) Design Build**: This project will replace the existing five-lane roadway with a four-lane median divided roadway with turn lanes. It will provide a new bridge crossing for LA 511 at the Red River and will also modify the existing bridge crossing for use as a linear park and provide a multiuse path. NSI is providing the traffic analysis, signal design, striping and signing plans, road design support and Bridge H&H and Scour for the river crossing. This preliminary design is being completed in support of the Design Build Proposal document. Traffic and road design support. |
| 07/22 – Present | **IDIQ Contract for Design of Safety Projects (Districts 02, 61 & 62)**: This project provides safety improvements for four parishes within three Districts. The tasks included under this project are Stage 0 Feasibility Studies, Planning/Environmental, Design and construction related engineering. QA/QC. |
| 12/12 – 07/22 | **Design Development Engineer Manager – LADOTD**<br>• Manages a staff of Engineering Interns, Design Engineers, and Engineer Technicians. Primary roles of the section include geometric design, striping, temporary traffic control and traffic management plans.<br>• Assists with the development of standard plans and engineering directive and standards for highway agency in the expertise of geometric design, complete streets, temporary traffic control, roundabouts, and pavement markings.<br>• Engineer of record for Louisiana Department Of Transportation's Pavement marking Standard Plans and Temporary Traffic Control Standard Plans.<br>• Member DOTD Work Zone Task Force |
| 04/07 – 12/12 | **HPMS/Highway Needs Engineer – LADOTD**<br>• Maintained the Highway Needs database and prepared the annual Highway Needs report to the Louisiana legislature. The Highway needs information is used as an aid to select projects in the DOTD highway program.<br>• Administered and developed the Highway Performance Monitoring System for DOTD. Prepared and submitted the annual HPMS Report to FHWA. The HPMS system is used by FHWA in various appropriation formulas which helps determine Louisiana's apportionment of the federal highway funds. |
| 1999 – 04/07 | **Design Engineer – LADOTD**<br>• Technical expert in selecting, designing, providing and maintaining criteria and methodology relative to the MUTCD and AASHTO Geometric Guidelines to ensure that most current concepts will be applied to Department's policies and design standards. Primary responsibilities included geometric design, capacity analysis, traffic studies, interstate signing projects, feasibility studies, scope of services negotiations, man-hour/ cost estimates, and plan reviews. |
| 06/94 – 1999 | **Engineer Inter – LADOTD**<br>• Conducted capacity analysis and prepared intersection geometry layouts.<br>• Reviewed roadway and bridge plans to determine if LADOTD and AASHTO standards and policies are adequately followed and drafted letters detailing the results of the review and offer corrective measures.<br>• Prepared and updated construction cost estimates.<br>• Responsible for developing construction plans to permanently sign or replace signing on controlled access highways statewide. |
| Certifications | Traffic Engineering Process and Report (Modules 1, 2 & 3) – DOTD<br>Safety Inspection of In-Service Bridges – National Highway Institute<br>National Incident Management System – FEMA<br>Crash Investigation and Reconstruction – Northwestern University |

## 16. STAFF EXPERIENCE



**Firm employed by Neel-Schaffer, Inc.**

| | | | |
|---|---|---|---|
| Name | **Ronald Kirk Gallien, PE, PTOE** | Years of experience with this firm/employer | 2 |
| Title | Senior Project Manager | Years of experience with other firm(s)/employer(s) | 36 |

| | |
|---|---|
| Degree(s) / Years / Specialization | BS / 1984 / Civil Engineering |
| Active registration number / state / expiration date | PE No. 23428 / LA / 09-30-2025; PTOE No. 1288 |
| Year registered 1989 Discipline | Civil |
| Contract role(s) / brief description of responsibilities | Traffic QAQC |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 02/20 – Present | **I-20 at LA 544 Overpass Replacement, Lincoln Parish, LA**: This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes four multilane roundabouts located in a tight project area with many constraints and large grade changes. The roundabouts will connect ramps and service roads with adjacent businesses. The project includes new bridge with sidewalk over I-20. The entire project limits are complete street compliant which means it provides facilities for all users. Tasks similar to Line and Grade completed: Established design criteria, typical roadway sections, horizontal and vertical geometry, ID structure locations and more. Mr. Gallien provided TMP review. |
| 08/20 – Present | **I-10 & I-12 College Drive Flyover Ramp Design Build, Baton Rouge, LA**: Project Engineer for Interchange Modification Report, Transportation Management Plan and ITR of MOT Plans for the proposed College Drive Ramp improvements. The IMR was prepared in accordance with DOTD’s TEPR and FHWA Policy Points. The IMR analysis was performed using Vissim software. In addition, the TMP was prepared for the various maintenance of traffic phases. Analysis used in the TMP included HCS analysis for detour evaluations and Dynameq (Mesoscopic Modeling) for evaluating various MOT strategies. The project also includes signal design. |
| 6/22 – Present | **Jimmie Davis Bridge (LA 511) (HBI) Design Build**: This project will replace the existing five-lane roadway with a four-lane median divided roadway with turn lanes. It will provide a new bridge crossing for LA 511 at the Red River and will also modify the existing bridge crossing for use as a linear park and provide a multiuse path. NSI is providing the traffic analysis, signal design, striping and signing plans, road design support and Bridge H&H and Scour for the river crossing. This preliminary design is being completed in support of the Design Build Proposal document. Traffic and road design support. |
| 1994 – 2007 | **DOTD District 05 – District Traffic Operations Engineer**<br>• Performed numerous traffic studies and composed numerous traffic engineering reports regarding traffic control such as traffic signal installations and modifications, signing, pavement markings, and establishing speed limits.<br>• Annually investigated and analyzed existing traffic control devices at locations identified as having a high potential for safety improvement and recommended and implemented modifications to improve traffic flow and safety at these locations.<br>• Coordinated and supervised upgrading all traffic signals (approximately 275) in District 05 from electromechanical to electronic controller operations.<br>• Worked closely with private developers and public entities regarding access to proposed developments to ensure conformance with DOTD standards<br>• Completed construction lay-out of pavement markings on numerous highway construction projects, including centerline passing/no passing zone markings on overlay projects.<br>• Served as the legal expert in traffic engineering for District 05, and responded to interrogatories and requests for production, gave depositions, and testified in court |

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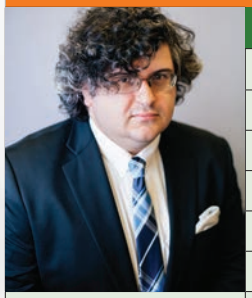
| 1994 – 2007 | **DOTD District 05 – District Traffic Operations Engineer Continued:**<br>**Projects:**<br>• **Computerized Traffic Signal System in District 05**: Provided technical assistance to the consultant during design of the project as well as construction personnel during installation of the field equipment. After completion of the project, implemented and used the computerized traffic signal system to manage traffic operations on US 165.<br>• **I-20 Elevated Section Rehabilitation Ouachita Parish**: Provided technical assistance regarding interstate lane closures and traffic control during design and construction of the project.<br>• **I-20 Mississippi River Bridge Modifications**: Provided technical assistance regarding interstate lane closures and traffic control during design and construction of the project. |
| 2007 – 2014<br>2018 – 2020 | **DOTD District 05 – Assistant District Administrator of Operations**<br>• Supervised traffic engineering and operations, district-wide roadway maintenance, bridge inspection and maintenance, and roadside development activities in District 05.<br>• Reviewed traffic impact studies and reviewed and approved access connection, utility, and project permits in District 05.<br>• Planned, managed, and directed all emergency response activities in District 05, which included emergency response, repairs, and recovery related to hurricanes, flooding, tornados, and winter weather. |
| 2014 – 2018<br>2020 – 2022 | **DOTD Headquarters – Assistant Secretary of Operations**<br>• Completed traffic studies and prepared written Traffic Engineering reports. Specific duties of traffic engineering studies included compiling filed data, performing peak period observations, performing analyses, QA/QC of field data and analyses, forming conclusions and recommendations based on the results of analyses, and preparation of technical reports. Studies included developments such as a 600-student middle school, a 400-student charter school, commercial subdivision, and a 650-unit student housing facility near Louisiana Tech University. Traffic studies and Traffic Engineering written reports also included modifications to existing traffic control devices such as traffic signal installations and modifications, signing, and pavement markings.<br>• Compiled field data and assisted with analysis of data and preparation of a written report to create a District 05 Safety Investment Plan for DOTD District 05, 4400010504, Task Order No. H.014295.1. This included analysis of crash data, determination of crash patterns, determination of appropriate safety countermeasures, benefit/cost analyses, compilation of results and compilation of recommended safety improvements for 32 state and local segments as well as 99 state and local intersections.<br>• Prepared Level 4 Transportation Management Plan for the I-10 and I-12 College Drive Flyover Design Build project, H.013897.6. Preparation of the plan included identifying the scope, goals, and constraints of the project, performing traffic and safety analyses, and assessing detour routes to effectively manage traffic during the project. Assisted with developing plans for stakeholder and public involvement during the project as well as the development of plans for maintenance of traffic, temporary traffic control, and work zone management strategies to be implemented during the project.<br>• For the Garrett Road-Kansas Lane Connector project, H.007300, assisted in preparation of a Level 4 Transportation Management Plan. Assisted with designing temporary traffic control and temporary traffic signal construction and operations required for the project. Reviewed plans and performed QA/QC for temporary and permanent traffic control throughout the entire project limits. |
| Certifications | Traffic Engineering Process and Report (Modules 1, 2 & 3) – DOTD<br>Safety Inspection of In-Service Bridges – National Highway Institute<br>National Incident Management System – FEMA<br>Crash Investigation and Reconstruction – Northwestern University |

## 16. STAFF EXPERIENCE

| Firm employed by Terracon Consultants, Inc. | | | | |
|---|---|---|---|---|
| Name | **Lynne Roussel, PE** | | Years of relevant experience with this employer | 18 |
| Title | Principal \| Senior Geotechnical Engineer | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | MS/ 2005 / Geotechnical Engineering; BS / 2003 / Civil Engineering | | | |
| Active registration number / state / expiration date | PE No. 35152 / LA / 03-31-24 | | | |
| Year registered | 2009 | Discipline | Civil Engineer | |
| Contract role(s) / brief description of responsibilities | Geotechnical Senior Reviewer | | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 05/18 – 02/22 | H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA. DOTD: Project Manager. Oversaw the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. |
| 12/12 – Ongoing | IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA. DOTD: Contract Manager and Project Reviewer. Managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is $2.5 million. |
| 07/21 – 12/21 | H.003931 I-10 Lake Charles, Lake Charles, LA. DOTD: Project Reviewer. Performed quality reviews on engineering analyses and reporting. |
| 07/16 – 07/21 | Louisiana Department of Transportation Geotechnical Retainer Contract No. 4400006191, LA. DOTD: Contract Manager and Project Reviewer. Managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is $4 Million. |
| 05/18 – 11/20 | H.005967: Nelson Road Extension and Bridge, Lake Charles, LA. DOTD: Project Manager. Managed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration, including water borings in Contraband Bayou, and provided 90% design of the substructure for the bridge over Contraband Bayou. Terracon performed a settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from the impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility. |
| 06/19 – 3/20 | H.004100 I-10 Widening, Baton Rouge, LA. DOTD: Senior Engineer. Supervised the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. The team worked safely around traffic and lane closures on the interstate near College Drive. |
| 04/19 – 09/20 | Sarasota Drive Bridge, Baton Rouge, LA. GEC: Project Manager. Managed the geotechnical exploration project, which included the advancement of two test borings to approximately 100 feet below existing site grades. Pile capacities were developed for the bridge bents. |
| 10/18 – 01/19 | H.000133 US 80 Overpass at KCS RR. Simsboro, LA. DOTD: Project Manager. Managed the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. |
| 07/18 – 12/18 | H.009481 LA 20 Bayou Chevreuil Bridge, St. James Parish, LA. DOTD: Project Manager in the subsurface evaluation and lab testing. |
| 10/16 – 01/18 | H.002238 Robinson Canal Bridge, Terrebonne Parish, LA. DOTD: Project Manager. Provided geotechnical engineering services for the project, including field exploration, laboratory testing, and geotechnical engineering for the bridge. Pile capacities were developed for the bridge bents. |
| Career History | Lynne has managed geotechnical projects for 18 years. She has also managed several Geotechnical ID/IQ contracts for DOTD. She has performed engineering analyses using in-house computer resources and commercial software for settlement analysis, deep foundations analysis, pavement design, slope stability analysis, and lateral loading of deep foundations. She also performed analyses for the USACE for limiting pressure analyses for Horizontal Directional Drilling (HDD) projects, seepage analyses, and Method of Planes slope stability. Her software experience includes PCSTABL6, GEOSLOPE, LPILE, DRIVEN, SHAFT, Shoring Suite, and APILE. |

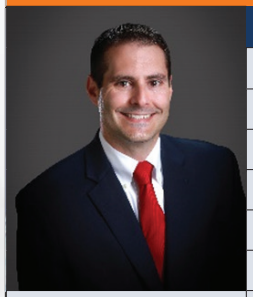
## 16. STAFF EXPERIENCE



| Firm employed by Terracon Consultants, Inc. | | | | | |
|---|---|---|---|---|---|
| Name | **Ryan Poindexter, PE** | | | Years of relevant experience with this employer | 7 |
| Title | Geotechnical Engineer | | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | BS / 2013 / Engineering | | |
| Active registration number / state / expiration date | | | PE No. 46285 / LA / 03-31-24 | | |
| Year registered | 2021 | Discipline | Civil Engineer | | |
| Contract role(s) / brief description of responsibilities | | | Geotechnical Engineer | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 07/21 – 12/21 | H.003931 I-10 Lake Charles, Lake Charles, LA. DOTD: Project Manager. Coordinated fieldwork and access, including private landowners and government agencies. Coordinated lab testing and QC-checked data. Prepared project deliverables and coordinated engineering review prior to final submittal. |
| 05/20 – 01/21 | H.005121 LA-1 and LA-415 Connector, Port Allen, LA. DOTD: Project Manager. Coordinated fieldwork, access, and initial lab testing prior to the project being suspended. |
| 07/18 – 10/21 | H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA. DOTD: Staff Engineer. Reviewed field logs, samples, and data. Assisted in coordinating lab testing. |
| 06/18 – 06/21 | H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, LA. DOTD: Assistant to Project Manager. The project consisted of providing a site characterization report for the new road and bridge, pile design, and pavement design recommendation. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway, borings in undeveloped land adjacent to the Port of Lake Charles, and borings in Bayou Contraband. Field exploration was completed safely over the course of multiple weeks with up to four land and water drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards. Terracon provided recommendations for precast concrete piles, pavement design, and site preparation. |
| 06/19 – 04/20 | H.004100, I-10- Widening East Baton Rouge Parish, Baton Rouge, LA. DOTD: Project Manager. The project consisted of providing a site characterization report for future improvements to the existing roadway. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway. Field exploration was completed safely over the course of multiple weeks with up to four land drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards. |
| 10/18-01/19 | H.000133 US 80 Overpass at KCS RR, Simsboro, LA. DOTD: Engineering Intern. Assisted with subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. He worked on boring logs and reporting. |
| 07/18 – 12/18 | H.009481, LA 20 Bayou Chevreuil Bridge - St. James Parish, LA. DOTD: Assistant to Project Manager. Coordinated field activities and lab testing for this geotechnical characterization for a replacement bridge. The project consisted of soil borings and CPT soundings along the proposed alignment of the replacement. The geotechnical field exploration required extensive use of water boring equipment. Before field operations began, site visits were conducted to determine the safest and most efficient access for drilling equipment around and along. Field exploration was completed safely over the course of multiple days utilizing land, pontoon, and barge-mounted drilling equipment. Laboratory testing included compressive strength testing and testing for classifying soil samples collected in accordance with LADOTD standards. |
| Career History | Ryan manages full-spectrum geotechnical projects, many of which are for LADOTD through our geotechnical retainer contract, and he has seven years of geotechnical engineering experience working for commercial, industrial, and transportation clients. His experience includes field and office tasks such as drill crew supervision, soil laboratory testing, data quality control, engineering calculations, geotechnical report preparation, and project management. Ryan is a Certified Traffic Control Supervisor and a Certified Flagger. |

## 16. STAFF EXPERIENCE



| Firm employed by CH Fenstermaker & Associates, LLC | | | | | |
|---|---|---|---|---|---|
| Name | **Travis Bodin, MBA, PLS, PMP** | | | Years of relevant experience with this employer | 19 |
| Title | Vice President, Survey and Mapping | | | Years of relevant experience with other employer(s) | 1 |
| Degree(s) / Years / Specialization | | | BS / 2004 / Industrial Technology; MBA / 2021 / Business Administration | | |
| Active registration number / state / expiration date | | | PLS No. 5067 / LA / 03-31-2024 | | |
| Year registered | 2011 | Discipline | Professional Land Surveyor | | |
| Contract role(s) / brief description of responsibilities | | | Fenstermaker Principal; **MPR 4** | | |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 09/13 – 01/19 | LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA) Mr. Bodin served as Lead Surveyor providing topographic, boundary, and route surveying to aid in the coordination with public and state agencies for the construction of a $60MM, 2.4-mile roadway. Services include mapping for the acquisition of agreements between Sasol and third-party utilities, platting for acquisition and dedication of property needed for various construction activities and state agencies, and Quality Control of construction activities that were conducted which included monument review and location mapping. Fenstermaker’s survey tasks included topographic survey, ROW acquisition and mapping, generating parcels, acquiring 100+ parcels, and using laser scanning of manholes and ground penetrating radar for subsurface engineering. Mr. Bodin was responsible for field coordination, data processing, ROW generation, servitude and ROW mapping and topo surveys. |
| 04/13 – 10/20 | Acadiana Regional Airport Access Road (Iberia Parish, LA) This project included the design of a new roadway beginning at the intersection of LA 3212 (Prairie Rd) and Grand Prairie Rd with an approximate 1,300-feet extension that intersects with LA 675 (Jefferson Island Rd). Significant features of this project include a 5-legged roundabout, a boulevard extension, and outfall channel regrading. Mr. Bodin served as Project Surveyor. |
| 05/19 – 03/21 | S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA) Fenstermaker completed the topographic and boundary surveys, established control, processed data, reviewed title reports, established property boundaries, and mapped encumbrances for the ~0.75 miles Railroad Relocation. LADOTD survey feature codes were utilized for this project, and LADOTD right-of-way maps along with COGOWIN legal descriptions were created. Mr. Bodin served as Project Principal and performed quality assurance and quality control tasks for this project. |
| 06/12 – Present | S.P. No. H.006459 Roundabout at Churchpoint/Roddy Road (Ascension Parish, LA) Mr. Bodin is serving as the Survey Lead on the design and re-design of this roundabout project. Feasible project concepts were developed along with estimated construction costs for each concept, including right of way acquisition and utility relocation costs. Right of Way Map requirements were set forth by the LADOTD “Location & Survey Manual Addendum A”. Mr. Bodin directed all surveying efforts, ROW mapping, and surveying other tasks. |
| 07/14 – 10/17 | LADOTD Permit No. 153351, 153352, 153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385) (Calcasieu Parish, LA) Fenstermaker was contracted by Trunkline LNG for their plant expansion, drainage analysis and channel relocation. Fenstermaker completed a HEC-RAS model to determine the impacts of rerouting a major drainage channel that traversed the proposed expansion site. Fenstermaker performed topographic and boundary survey, generated right of way maps, and coordinated and managed utility relocations. Mr. Bodin was responsible for DTM generation and establishing the project controls, coordination of utilities and survey field activities, as well as processing all the data collected. |
| 07/13 – 08/15 | S.P. No. H.010620: US 90 (I-49 South) Albertson Pkwy to Ambassador Caffery Design-Build (Lafayette Parish, LA) Fenstermaker was the Design Engineer for James Construction. Mr. Bodin was the Surveyor responsible for managing all topo surveying provided by the sub-consultant on the improvements to the roadway. Some of the main elements of the six-lane mainline roadway project include an overpass at the BNSF Railway, a grade separation at Albertson's Pkwy and improved connectivity between US 90 and LA 182. |

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| 02/13 – 03/17 | Ham Reid Road Roundabout & Ext (Calcasieu Parish, LA) This project involves engineering design and planning related to the improvement of intersection on Nelson Road at Ham Reid Road. Mr. Bodin was responsible for the Topographic Surveying and ROW Plats. |
| 04/15 – 02/19 | Coach Williams Boulevard Extension (Calcasieu Parish, LA) This is a $20 million project that involves the design of a 3-mile roadway. The new roadway is a 2-lane open ditch typical section, which will feature a roundabout, a railroad crossing, and a Sabine River Authority Canal crossing. The project will pass through several wetland areas. Mr. Bodin was the Project Manager and Lead Surveyor, responsible for coordinating the abstracting, topographic survey, and generation of all right of way and servitude plats. |
| 12/08 – 07/18 | LADOTD Permit No. 03030387: Kaliste Saloom Road Widening, Intersection Improvements, Bridge, and CE&I (LA 3073 to LA 733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA) Mr. Bodin served as the Surveyor Project Manager. Fenstermaker performed the topographic survey of all cross street and road tie-ins, cross sections for the purpose of an existing elevation DTM and parcel boundaries effected by the ROW. Mr. Bodin was responsible for field crew coordination, topo/boundary surveys, ROW plats, monuments, data processing, plats and legal descriptions. |
| 05/12 – 09/20 | Apollo Rd (LA 93) Ext to Dulles Drive (Lafayette Parish, LA) Fenstermaker performed all topographic survey of cross streets and road tie-ins, cross sections for the purpose of an existing elevation DTM and location of all parcel boundaries affected by the proposed right of way. Additionally, surveying services included ASFD survey of all drainage laterals and drainage structures for hydraulic analysis and location of all utilities and topographic features within an identified area. Mr. Bodin served as Survey Project Manager. |
| 10/12 – 05/14 | US 190 & 4-H Club Rd (LA 1032) Turn Lanes (Livingston Parish, LA) This project involved the construction of an additional turning lane along 4-H Club Roadway. Fenstermaker was responsible for creating construction plans, and Mr. Bodin served as the Lead Surveyor, responsible for coordinating the survey crew to collect topography, boundary information, and drainage information. He also coordinated with the title abstractor and processed the survey data into a LADOTD format for use in CAD. |
| 10/08 – 11/11 | East Pont des Mouton, Phase II – Water and Sewer Improvement and Roadway Widening (Lafayette Parish, LA) This project included the widening of Approximately 1.4 miles of urban roadway reconstruction resulting in utility relocation and design of potable water distribution system and sanitary sewer collection system (gravity and force main). The sanitary sewer portion of this project entailed the design and installation of over 8,000' cumulative feet of 15",18", 21", and 24" gravity sewer main. Mr. Bodin was the Lead Surveyor. He led a full survey that was conducted to capture elevations and dimensions. |
| Career History | Travis Bodin, MBA, PLS, PMP has extensive surveying, management, and coordination experience. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of DTM, infrastructure documentation, GIS integration, and process and procedure development. Mr. Bodin has conducted management duties for both field and office activities on survey and engineering projects. |

## 16. STAFF EXPERIENCE

**Firm employed by CH Fenstermaker & Associates, LLC**

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| Name | **Bradford Millett, PLS, EI** | Years of relevant experience with this employer | 10 |
| Title | Surveyor | Years of relevant experience with other employer(s) | 0 |

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|---|---|---|---|
| Degree(s) / Years / Specialization | | | BS / 2014 / Civil Engineering |
| Active registration number / state / expiration date | | | PLS 5245 / LA / 03-31-2025; EI 32848 / LA / 09-30-2024 |
| Year registered | PLS – 2020<br>EI - 2016 | Discipline | Professional Land Surveyor; Engineer Intern |
| Contract role(s) / brief description of responsibilities | | | Surveyor / Fenstermaker Project Manager |

| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 09/13 – 10/19 | Sasol LCCP-Heavy Haul Road (LA378 & LA739) (Calcasieu Parish, LA) This was a $12.9 million contract with Fluor for engineering and consulting services which include the design of a 1.5-mile heavy haul route that will be utilized to transport oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. Ms. Millett was responsible for topographic and boundary data collection and data processing, as well as the generation of Louisiana Department of Transportation and Development Right of Way Maps for the 1.5-mile corridor to acquire servitudes and right of ways. |
| 12/19 – 12/21 | LA 675 Roundabout and Acadiana Regional Airport Access Road (Iberia Parish, LA) This project includes the design of a new roundabout at the intersection of LA 675, US 90 Frontage Road, and the Acadiana Regional Airport Access Road. Ms. Millet served as Lead Surveyor responsible for the topographic and boundary surveys, as well as the development and review of right of way maps. |
| 05/19 – 03/21 | S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA) Fenstermaker completed the topographic and boundary field surveys, established control, processed data, reviewed title reports, established property boundaries and mapped encumbrances for the approximately 0.75-mile Railroad Relocation. LADOTD survey feature codes were utilized for this project, and LADOTD Right of Way maps along with COGOWIN legal descriptions were created. Ms. Millett served as the Project Manager. |
| | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA) LADOTD selected Fenstermaker to provide engineering services for the replacement of 14 bridges in District 03. Fenstermaker's services include researching eligible structures, coordinating with local stakeholders, and selecting structures for inclusion in the IIJA Off-System Bridge Program. Ms. Millett coordinated survey crews, processed collected survey data, reviewed boundary and topographic data, reviewed control sketches, and prepared survey deliverables for LADOTD. |
| 05/14 – 11/17 | LADOTD Permit No. 153351,153352,153353: Lake Charles LNG Traffic Impact Analysis and Road Improvements (Calcasieu Parish, LA) Fenstermaker was responsible for designing road improvements at various locations to support anticipated construction traffic associated with the expansion of the Lake Charles LNG, G2X, and Magnolia Facilities. Topographic and boundary surveys, right of way maps, as well as coordinating and managing utility relocations were performed by Fenstermaker. Ms. Millett prepared survey requests, coordinated survey crews, reviewed, and processed survey data, prepared right of way maps, and coordinated with utility companies. |
| 02/18 – 04/20 | Churchpoint Road at Roddy Road Roundabout Study, Design, and Redesign (Ascension Parish, LA) Fenstermaker completed a roundabout study at Churchpoint Road and Roddy Rd. Following LADOTD’s approval, Fenstermaker began final design. Ms. Millett coordinated with survey crews, processed data, completed preliminary boundary layouts, and developed ROW maps for this intersection. |

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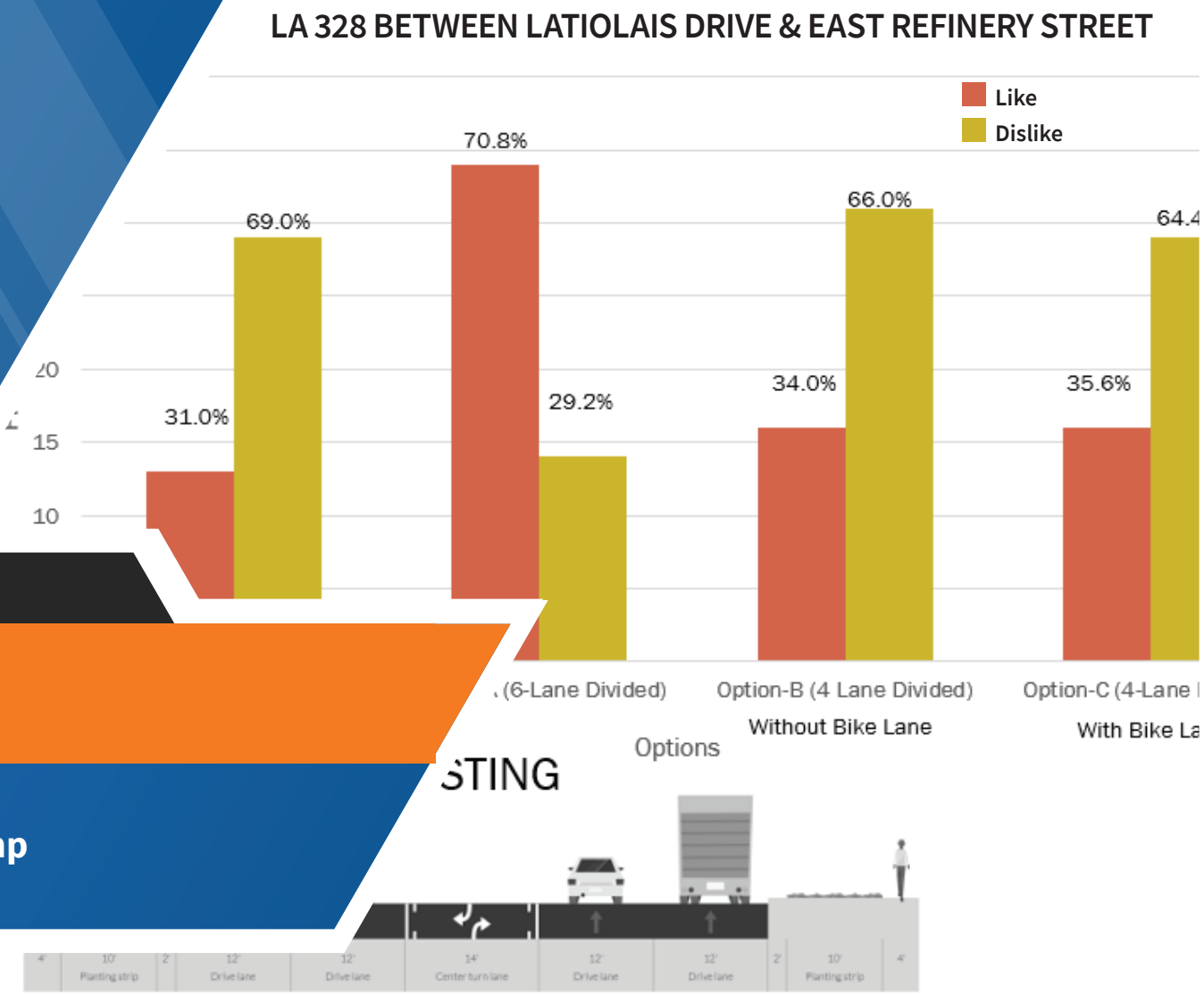
| 06/14 – 03/17 | East Pont Des Mouton Road Widening (Lafayette Parish, LA) Fenstermaker was selected to perform engineering design services for the construction of a 1.4-mile four-lane divided curb and gutter roadway with raised median (boulevard section), sidewalks, subsurface drainage, and street lighting. The improvements replaced an existing 2-lane roadway of East Pont des Mouton Road. Ms. Millett completed the required topographic and as-built survey, as well as boundary surveys and right of way plats. |
| 05/13 – 02/20 | US 90 (I-49 South) Albertson Pkwy to Ambassador Caffery Design-Build (Lafayette Parish, LA) This project was a proposed upgrading of a portion of US 90 in Lafayette Parish to a six-lane controlled access facility to also include improvements to the existing east and westbound frontage road system, construction of a new six-lane US 90 overpass structure over both Albertson Parkway and the existing Burlington Northern Santa Fe Railway facility, and construction of all associated US 90 mainline ramps needed to connect these overpass structures and frontage roads. Ms. Millett was responsible for reviewing all LADOTD right-of-way maps. |
| 04/15 – 02/19 | Coach Williams Blvd. Extension (Calcasieu Parish, LA) This project consisted of design services for the extension of Coach Williams to connect to Houston River Road (LA 379). Fenstermaker is the prime on this project and is responsible for the environmental assessments prior to design, drainage design, pavement design, and the geometrics of the road. In addition, Fenstermaker conducted the surveying required to design the road. Ms. Millett's responsibilities included coordinating and reviewing appraisal reports and plats, coordinating all the topographic and boundary surveys, processing data and coordinating with utility companies within the proposed route. |
| 07/13-09/17 | Kaliste Saloom Road Widening, Ambassador Caffery Pkwy to E. Broussard Rd, (Lafayette Parish, LA) Fenstermaker was responsible for the widening of approximately two miles of Kaliste Saloom Road, a highly congested major arterial roadway located in the center of the City of Lafayette. The project included drainage outfall construction, utility relocations, and roadway construction. Fenstermaker is the direct responsible charge of all design components and construction management for improvements. Ms. Millett assisted with topographic and boundary surveying, utility relocation, right of way plats, drainage design, as-built surveys, and coordination of survey crews. |
| 07/13 – 08/21 | Apollo Road (LA 93) Ext to Dulles Drive – Roadway & Water/Sewer (Lafayette Parish, LA) Fenstermaker performed all topographic surveying of cross streets and road tie-ins, cross sections for the purpose of an existing elevation DTM, and locations of all parcel boundaries effected by the proposed right of way. Ms. Millett created the plats for the acquisition of servitudes and right of ways. |
| 05/15 – 11/21 | Ham Reid Road Extension (Calcasieu Parish, LA) Ham Reid Road is a two-phase, $14.25 million construction project that includes a unique 1-mile asphalt roadway corridor, incorporating walkability and green infrastructure. The corridor includes a 2-lane boulevard section with a roundabout located at the intersection of Ham Reid Road and LA 384/Nelson Road. Ms. Millett was responsible for creating survey exhibits, processing survey data, and setting up and updating the project's Falling Weight Deflectometer tests. |
| 11/23 – Present | Hangar Road Extension & LA Highway 3212 Improvements (Iberia Parish, LA) This project focuses on extending Hangar Drive to LA 3212 and includes intersections at Hangar Drive and Tower Drive, and at Hangar Drive and LaSalle Street in New Iberia. It involves the installation of new left turn lanes at two entrances to the First Solar manufacturing facility along LA 3212. The project also involves the realignment of Leon Landry and an extension of Hangar Drive at the intersection of LA 3212. Fenstermaker provided engineering design services for the extension and improvements along the state highway. Fenstermaker also provided boundary survey services for the project site. Ms. Millett reviewed drafted boundary plats, reviewed and mapped servitudes, made revisions to legal descriptions, and certified and submitted boundary plants and legal descriptions. |
| Career History | Ms. Millett is a Professional Land Surveyor whose responsibilities consist of field crew coordination, data collection and processing, preliminary layout and design of boundary and right of way plats, ALTA surveys and Development and Planning subdivision platting process. Her experience also includes project management as well as public meetings, client relations, utility coordination, and other components associated with surveying services. Ms. Millett is also responsible for the preparation of proposals for the Engineering, Advanced Technologies, and Surveying Divisions. |

The image to the right was taken from LA 328 Stage 0 Study completed by Neel-Schaffer for the APC which includes the impacts of Mills Avenue Extension




# Section 17

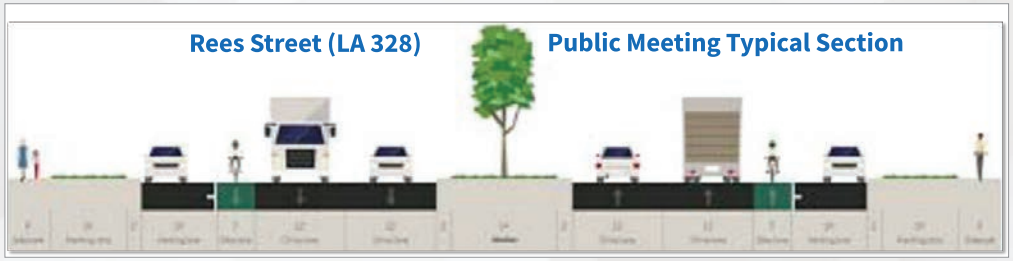
Contract No. 4400028585

**Mills Ave & Rees St Intersection Imp**

**Route: LA 93 & LA 328**

## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Neel-Schaffer, Inc.** | Past Performance Evaluation Category(ies)* | Traffic and Road |
| Project name | **Rees Street (LA 328) Corridor Feasibility Study** | Firm responsibility (prime or sub?) | Prime |
| Project number | H.013023 | Owner's name | Acadiana Planning Commission |
| Project location | Breaux Bridge, LA | Owner's Project Manager | Mike Hollier, AICP |
| Owner's address, phone, email | 101 Jefferson Street, Lafayette, LA 70501, Phone: 337-806-9361, Email: mhollier@planacadiana.org | | |
| Services commenced by this firm (mm/yy) | 04/18 | Total consultant contract cost ($1,000's) | $380 |
| Services completed by this firm (mm/yy) | 04/20 | Cost of consultant services provided by this firm ($1,000's) | $380 |




This project includes the intersection of Rees St. (LA 328) and Mills Ave. Extension. In addition, it considered the impacts of E. Mills Ave. Extension. Neel Shaffer completed a Stage 0 Feasibility Study, checklists, developed horizontal alignments, concept layouts, conducted two rounds of public meetings, traffic/safety study in accordance with DOTD's Traffic Engineering Process and Report (TEPR) for improvements along Rees Street (LA 328) for the APC and the City of Breaux Bridge. This project was examined the feasibility of improving LA 328, within the corporate limits of Breaux Bridge, from Latiolais Dr to East Bridge St. three (3) concepts were evaluated with consideration for future proposed projects. The project considered and evaluated a "Complete Streets" redesign of this major roadway including capacity, safety, access management, multimodal infrastructure, placemaking, and aesthetics. Key project features include:

- Regional travel demand modeling to estimate future travel demand along LA 328 and the roadway extensions of two cross-streets.
- The development of cross-section design options along the LA 328 corridor, which considered a "Complete Streets" redesign with ranked input from local stakeholders and the public. Roundabouts at major cross-streets are considered in each alternative.
- VISSIM animation models of concepts were developed by Neel-Schaffer and presented at the second round of public meetings.

**Firm Members**: Vijay Kunada, Dishili Young, Scott Andrepont, Mai Nguyen, Santosh Andem, Chuck LeBoeuf

**Project Relevance:**

- ✓ Includes the intersection of LA 328 & Mills Ave. Ext.
- ✓ Includes the impacts of the proposed E Mills Ext.
- ✓ Designed using the DOTD guidelines & software

## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Neel-Schaffer, Inc.** | Past Performance Evaluation Category(ies)* | Traffic and Road |
| Project name | **LA 73 Turn Lanes** | Firm responsibility (prime or sub?) | Prime |
| Project number | MA-18-03 | Owner's name | Ascension Parish Government |
| Project location | Ascension Parish, LA | Owner's Project Manager | Michael Enlow |
| Owner's address, phone, email | 42077 Churchpoint Road, Gonzales, LA 70737 225-450-1326 menlow@apgov.us | | |
| Services commenced by this firm (mm/yy) | 05/18 | Total consultant contract cost ($1,000's) | $331 |
| Services completed by this firm (mm/yy) | 03/20 | Cost of consultant services provided by this firm ($1,000's) | $331 |

Neel-Schaffer, Inc. (NSI) was selected as prime consultant to complete traffic and safety analysis, conceptual design, preliminary and final roadway plans, traffic control design, hydraulic analysis and design, utility coordination, construction cost estimates, and construction support for two intersections along LA 73. NSI completed a safety analysis for these intersections by reviewing crash reports for years 2014-2016 and checking them for accuracy. NSI created crash diagrams, calculated the crash rate, completed a conflict points analysis, and calculated the combined crash modification factor. As part of the stage 3 services NSI developed construction plans in accordance with LADOTD standards and guidelines for the turn lanes on LA 73, Oakland Rd. and Brown Rd. The work includes pavement widening of an existing two-lane roadway, pavement patching and overlay, box culvert extension and cross-drain extension, storm sewer and open ditch design, sequence of construction, pavement striping and signing. The project was designed to stay within the existing right-of-way to minimize cost and time from right-of-way acquisition on LA 73.

### Tasks completed for this project include:

**Topo Survey**

**Data Collection, Traffic and Safety Analysis** – 48hr counts, AM and PM peak TMC, queue and peak hour observations, turn lane analysis and review of 3 years of crash data.

**Traffic Control Design** - completed following LADOTD guidelines

**Preliminary and Final Roadway Design, Plan Development, Cost Estimates and Hydraulic Analysis and Design** – H&H analysis was completed for the proposed roadway drainage systems and the double barrel box culvert which drains Welsh Gully, utilizing LADOTD Hydrwin software. Developed roadway plans following LADOTD design guidelines for left and right turn lanes on LA 73 and local roads.

**Construction Support** – Responded to RFI's

**Project Challenge Solved:**

Completing safety, operations improvements within limited ROW, without utility conflicts and with bridge constraints in accordance to DOTD requirements

**Firm Members**: Ellen Howard, Dishili Young, Mai Nguyen, Chance Shuckrow, Scott Andrepont, Steve Perault

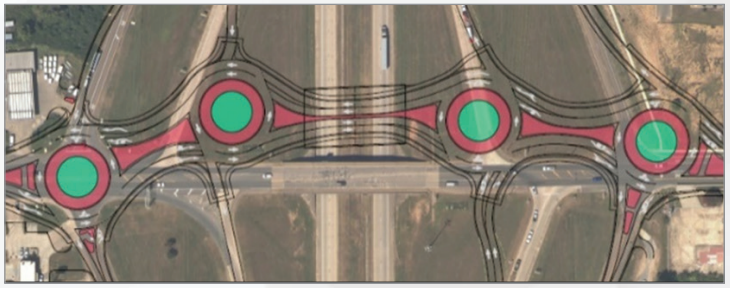
**Project Relevance:**

- ✓ SOW identical
- ✓ Design to DOTD guidelines
- ✓ DOTD review and approval
- ✓ Intersection improvements
- ✓ No lane closures or detours

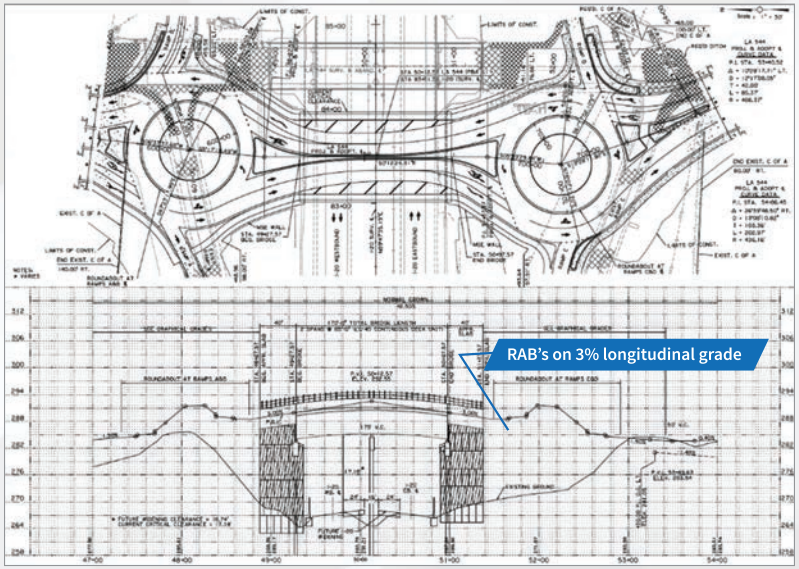
## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Neel-Schaffer, Inc.** | Past Performance Evaluation Category(ies)* | Traffic and Road |
| Project name | **I-20: LA 544 Overpass Replacement** | Firm responsibility (prime or sub?) | Prime |
| Project number | H.010616 | Owner's name | LADOTD |
| Project location | Lincoln Parish, LA | Owner's Project Manager | Jacob Fusilier, PE |
| Owner's address, phone, email | PO Box 94245, Baton Rouge, LA 70804 \| 225.379.1185 \| jacob.fusilier@la.gov | | |
| Services commenced by this firm (mm/yy) | 02/20 | Total consultant contract cost ($1,000's) | $858 |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm ($1,000's) | $858 |

Neel-Schaffer is currently working on the 95% final plans for this project. NSI is responsible for providing the preliminary and final roadway plans, traffic control design QA/QC, TMP and signal design QA, Sequence of Construction, hydraulic analysis and design, and MOT which maintains access to properties during construction. This project will replace the LA 544 Overpass diamond interchange with a roundabout diamond interchange. The project includes four multilane roundabouts (two entrance/exit ramps at 3% grade), a new bridge over I-20, roadway improvements to I-20 and the ramps, and roadway widening (from 2 to 4 lanes) along LA 544 an urban atrial roadway. The bridge design and retaining wall design will be completed by DOTD.



### Challenges:




1. Multilane roundabouts on 3% longitudinal grade, in high fill, partially on bridge & open to traffic.
2. Large grade changes required along ramps without impacts to the gores.
3. Structural design by DOTD while roadway design is completed by consultants.

### Solutions:

1. NSI designed 65 pages of 13 phased construction with models to consider each phase and final joint layout and elevations.
2. NSI provided for a variation in the ramp design speed (between the ramp proper and terminal) which provided ramp vertical alignments that met the design requirements but prevented changes in access that might require an IMR.
3. NSI completed the design in close coordination with DOTD early on and continually during the design process. NSI proposed alignments minimized the construction phasing for retainage walls, provided for interstate clearances which would allow for future interstate widening and provided desirable bridge phasing while minimizing impacts. NSI and DOTD are working as one team to successfully complete the project.

### Project Relevance:

- ✓ DOTD project
- ✓ Traffic and road design
- ✓ Intersection improvements
- ✓ Design to DOTD guidelines
- ✓ DOTD review and approval

**Firm Members**: Dishili Young, Mai Nguyen, Chance Shuckrow, Scott Andrepont, Josh Schexnider, Frank Standige, Jacob Thiaville

## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Neel-Schaffer, Inc.** | Past Performance Evaluation Category(ies)* | Road |
| Project name | **LA 1026 (Juban Rd) Widening (I-12 to US 190)** | Firm responsibility (prime or sub?) | Prime |
| Project number | H.004634 | Owner's name | Livingston Parish / LADOTD |
| Project location | Livingston Parish, LA | Owner's Project Manager | Peggy Paine, PE |
| Owner's address, phone, email | PO Box 94245, Baton Rouge, LA 70804 \| 225.379.1065 \| peggy.paine@la.gov | | |
| Services commenced by this firm (mm/yy) | 08/12 | Total consultant contract cost ($1,000's) | $877 |
| Services completed by this firm (mm/yy) | 03/19 | Cost of consultant services provided by this firm ($1,000's) | $877 |

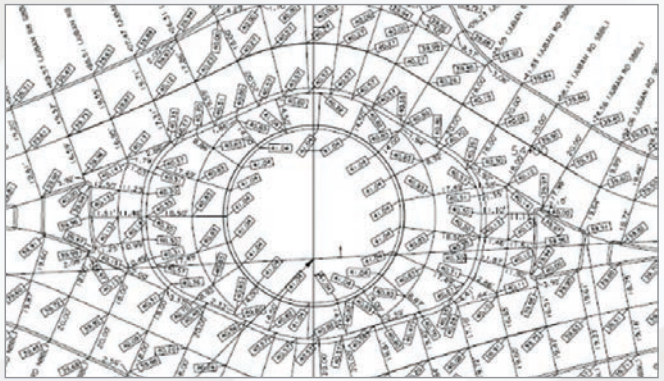
Neel-Schaffer was selected as prime consultant to complete the preliminary and final roadway plans, hydraulic analysis and design, construction cost estimates, and construction support. The project includes three multilane roundabouts and will widen existing LA 1026 (Juban Road), an Urban Arterial roadway, from an existing two-lane road with side ditches to a four-lane Blvd with storm sewer drainage, roadside ditches and a combination of both along select segments of the roadway. The intersection of LA 1026 (Juban Road)/ US 190 (Florida Blvd) will be improved with a roundabout in this project. *The images below show how the Sequence of Construction considered the joint layouts during construction phasing. The bottom image shows the overall project in concept form. Project is currently under construction.*

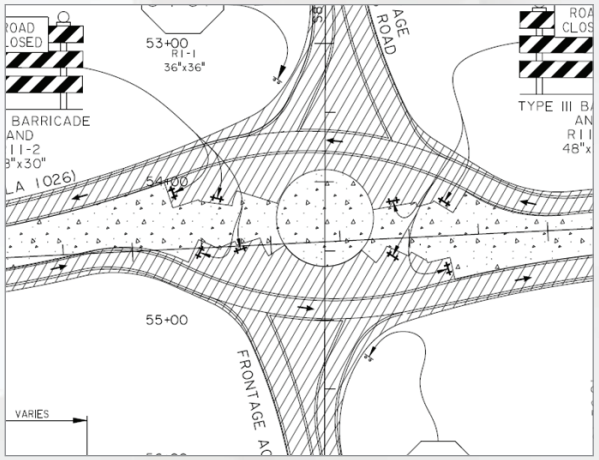
**Project Challenge/Solution**: The project was let as two design packages which required roadway design (horizontal and vertical alignments) and drainage designed to work for both phases; Interim build and full build conditions.

**Firm Members**: Dishili Young, Chance Shuckrow, Scott Andrepont, Mai Nguyen, Charles Adams

**Project Relevance:**

- ✓ DOTD project
- ✓ Similar SOW
- ✓ Design to DOTD guidelines
- ✓ DOTD review and approval
- ✓ No lane closures or detours





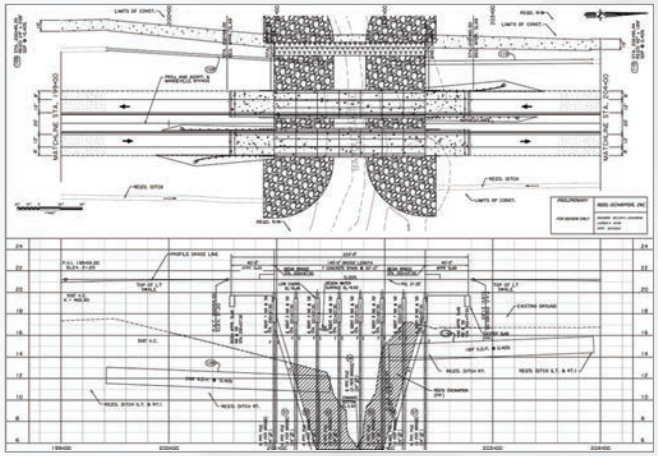


This project begins at the intersection of LA 1026 (Juban Road) and the I-12 north interchange ramps and continues to the intersection of LA 1026 (Juban Road) and US 190 (Florida Blvd) and ends approximately 2,000 feet east and west along US 190 (Florida Blvd) from the intersection of LA 1026 (Juban Road).

## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Neel-Schaffer, Inc.** | Past Performance Evaluation Category(ies)* | Traffic and Road |
| Project name | **Mandeville Bypass** | Firm responsibility (prime or sub?) | Sub |
| Project number | N/A | Owner's name | St. Tammany Parish |
| Project location | Mandeville, LA | Owner's Project Manager | Laura B. Gatlin, PMP |
| Owner's address, phone, email | 620 N Tyler Street, Covington, LA 70434 \| 985.898.2552 \| lcbeach@stpgov.org | | |
| Services commenced by this firm (mm/yy) | 07/15 | Total consultant contract cost ($1,000's) | $2,000 |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm ($1,000's) | $550 |

The Mandeville Bypass will provide a new three-mile median section roadway with integral bike bath connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will also provide **five multilane roundabouts (2 along DOTD roadways).** Neel-Schaffer completed the public involvement, traffic analysis, completing the preliminary and final roadway plans, traffic control design, MOT, utility coordination, construction cost estimates, and construction support. Neel-Schaffer is also leading the environmental planning for the project as well as permitting as may be required.



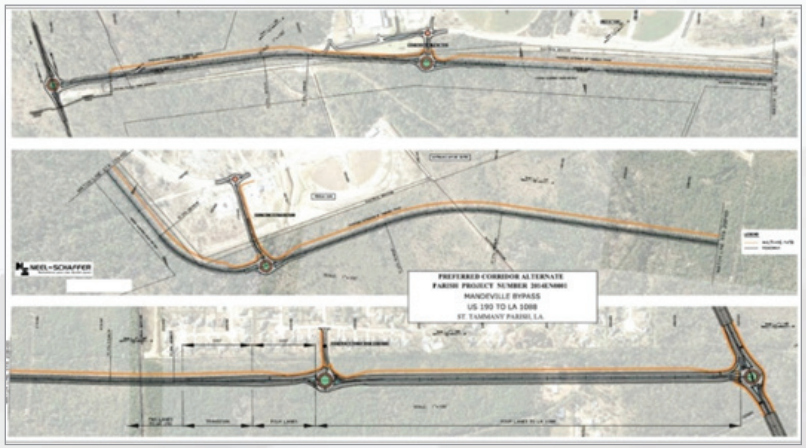
**Challenge**: Pipeline conflicts

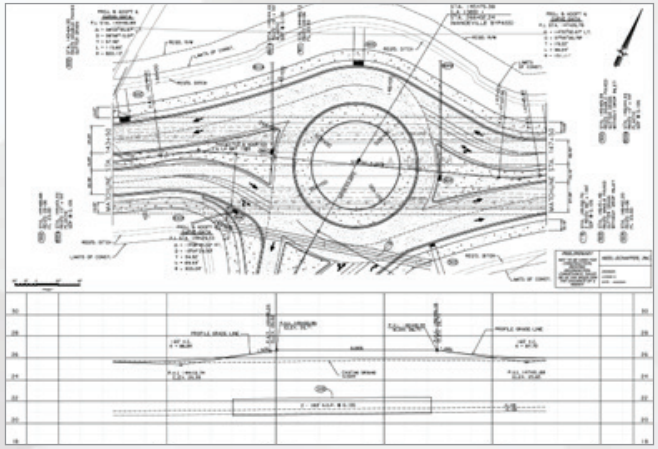
**Solution**: NSI coordinated closely with pipeline owners, assisted with locating lines and depths in the field and based on map data and provided revisions to drainage design to provide the necessary cover. The final roadside drainage included concrete lined ditches over the pipelines.

**Firm Members**: Dishili Young, Scott Andrepont, Chance Shuckrow, Barry Brupbacher, Mai Nguyen, Josh Schexnider, Jacob Thiaville, Ryan Lam, Steve Perault

**Project Relevance:**

- ✓ SOW identical
- ✓ Design to DOTD guidelines
- ✓ DOTD review and approval
- ✓ Interchange Improvement
- ✓ No lane closures or detours





## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Terracon Consultants, Inc.** | Past Performance Evaluation Category(ies)* | Geotech |
| Project name | **I-49 South at Verot School Road** | Firm responsibility (prime or sub?) | Sub |
| Project number | H.011235 | Owner's name | LADOTD |
| Project location | Lafayette, LA | Owner's Project Manager | Corey Landry, PE |
| Owner's address, phone, email | 1201 Capital Access Road, Baton Rouge, LA, 70802; (225) 379-1387; corey.landry@la.gov | | |
| Services commenced by this firm (mm/yy) | 06/18 | Total consultant contract cost ($1,000's) | $442 |
| Services completed by this firm (mm/yy) | 02/22 | Cost of consultant services provided by this firm ($1,000's) | $442 |

Terracon was the geotechnical subconsultant to Huval and Associates. Terracon performed 30 deep borings, 67 shallow borings, including 33 located within the existing roadways, 15 CPT soundings, lab testing, installed and monitored piezometer, and prepared soil surveys and boring logs for planned new bridges, roadway widening, and retaining wall structures.


After completing the field exploration and lab testing programs, Terracon prepared pile nominal resistance calculations for the planned bridge substructures in accordance with DOTD standards. Terracon additionally performed stability and settlement analyses for the MSE Walls. Terracon communicated with the design team and updated the analyses and recommendations throughout the design process, as necessitated by changes in the design

**Firm Members**: Lynne Roussel McMillen, Steve Greaber, Ryan Poindexter, Brian Alexander, Matthew Minton

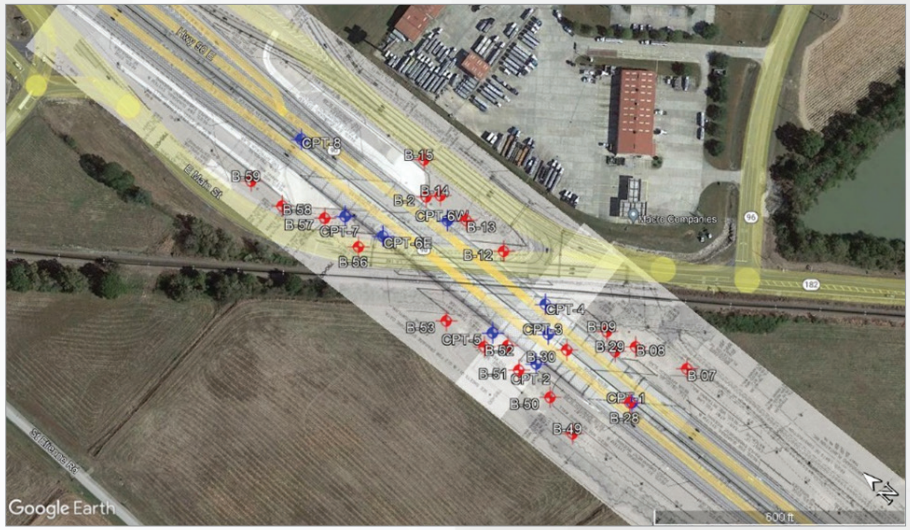
## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Terracon Consultants, Inc.** | Past Performance Evaluation Category(ies)* | Geotech |
| Project name | **US 90 (I-49 South) Albertsons Parkway Design Build** | Firm responsibility (prime or sub?) | Sub |
| Project number | H.010620 | Owner's name | LADOTD |
| Project location | Broussard, LA | Owner's Project Manager | Peggy Jo Paine, P.E. |
| Owner's address, phone, email | 1201 Capital Access Road, Baton Rouge, LA, 70802; (337) 475-4287; Peggy.Paine@la.gov | | |
| Services commenced by this firm (mm/yy) | 02/15 | Total consultant contract cost ($1,000's) | $350 |
| Services completed by this firm (mm/yy) | 12/18 | Cost of consultant services provided by this firm ($1,000's) | $350 |

Terracon provided the geotechnical design of the substructure of two bridges and global stability and settlement analysis for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors or pile order lengths to accommodate slight variations in nominal capacity obtained at each bent.

Terracon also provided construction phase support to the design-build contractor in evaluating settlement monitoring data for the MSE walls for compliance with the contract requirements, pile bent acceptance, resolving NCRs, and supporting the evaluation of RFIs.

**Firm Members**: Lynne Roussel McMillen, Steve Greaber, Ryan Poindexter, Brian Alexander, Matthew Minton

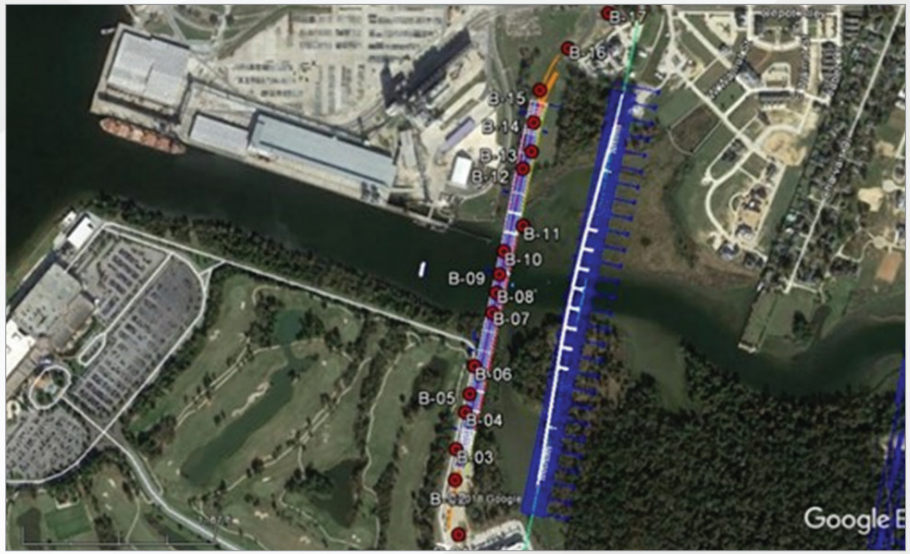


## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm Name | **Terracon Consultants, Inc.** | Past Performance Evaluation Category(ies)* | Geotech |
| Project name | **Nelson Road Extension and Bridge** | Firm responsibility (prime or sub?) | Prime |
| Project number | H.009481 | Owner's name | LADOTD |
| Project location | Lake Charles, LA | Owner's Project Manager | Kristy Smith, PE |
| Owner's address, phone, email | 1201 Capitol Access Rd, Baton Rouge, LA 70802; (225) 379-1387; Kristy.Smith2@la.gov | | |
| Services commenced by this firm (mm/yy) | 07/18 | Total consultant contract cost ($1,000's) | $364 |
| Services completed by this firm (mm/yy) | 12/18 | Cost of consultant services provided by this firm ($1,000's) | $364 |

Terracon provided soil borings, lab testing, boring logs, and engineering for a planned roadway extension and bridge. Provided pile nominal capacity calculations and recommendations for resistance factors for design. Provided design support for impact dolphins to be placed in front of the bridge to protect the superstructure from impact by large ships from the adjacent Port of Lake Charles.

**Firm Members**: Lynne Roussel McMillen, Steve Greaber, Ryan Poindexter, Brian Alexander, Matthew Minton



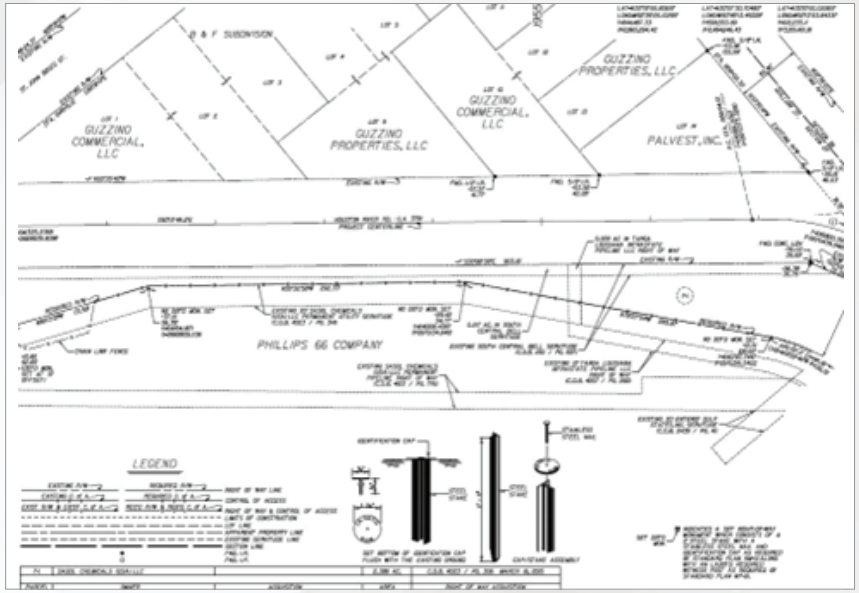
## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm name | **C. H. Fenstermaker & Associates, LLC** | Past Performance Evaluation Category(ies)* | Survey |
| Project name | **Sasol LCCP-Heavy Haul Rd (LA378 & LA739)** | Firm responsibility (prime or sub?) | Prime |
| Project number | N/A | Owner's name | Fluor Enterprises |
| Project location | Calcasieu Parish, LA | Owner's Project Manager | Sean Anderson |
| Owner's address, phone, email | 3535 Houston River Road, FTI CORE COMMERCIAL, Westlake, LA 70669 \| (337) 310-7828 \| sean.m.anderson@fluor.com | | |
| Services commenced by this firm | 09/13 | Total consultant contract cost ($1,000's) | $13,342 |
| Services completed by this firm | 02/19 | Cost of consultant services provided by this firm ($1,000's) | $11,413 |

A $60 million multi-award-winning construction project. the Heavy Haul Route project widened 2.4 miles of a 2-lane state highway with no shoulders to 4 lanes with shoulders. Fenstermaker designed the road, dual turning lanes, and dedicated right turns lanes and increased overall capacity. Fenstermaker also coordinated utility locations, completed property acquisition, and acquired LADOTD permits. This project met the expedited schedule for plant heavy haul shipments and had traffic in place within 24 months. Fenstermaker designed Adaptive Traffic Signalization, the first of its kind in Louisiana, for use on 7 signals. Adaptive Traffic Signalization is a system that adjusts signal timing and sequencing at intersections simultaneously. Fenstermaker's survey tasks included topographic survey, LADOTD ROW acquisition and mapping, generating parcels, acquiring 100+ parcels that included multiple churches and schools, and using laser scanning of manholes and ground penetrating radar for subsurface engineering (SUE).

This project required the client to obtain the following permits from LADOTD:No. 153198, No. 153357, No. 153587, No. 153280, No. 153303, No. 153304, No. 153305, No. 153306, No. 153307, and No. 07012578

**Firm Members**:Travis Bodin | Bradford Millett

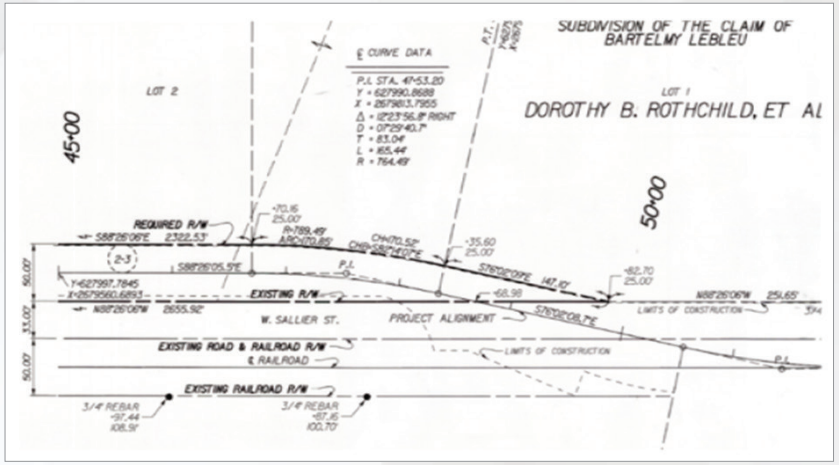


## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm name | **C. H. Fenstermaker & Associates, LLC** | Past Performance Evaluation Category(ies)* | Survey |
| Project name | **Port of Lake Charles Rail Lead Rail Relocation Right of Way Maps** | Firm responsibility (prime or sub?) | Prime |
| Project number | N/A | Owner's name | Port of Lake Charles Harbor & Terminal District |
| Project location | Calcasieu Parish, LA | Owner's Project Manager | Shaunna Davis |
| Owner's address, phone, email | 1611 West Sallier Street, Lake Charles, LA 70601 \| (337) 439-3538 \| sdavis@portlc.com | | |
| Services commenced by this firm | 05/19 | Total consultant contract cost ($1,000's) | $72.32 |
| Services completed by this firm | 07/21 | Cost of consultant services provided by this firm ($1,000's) | $72.32 |

Fenstermaker completed the boundary field survey, established control, post-processed data, reviewed title reports, established property boundaries, and mapped encumbrances for the approximately 0.75-mile Railroad Relocation for the Lake Charles Harbor & Terminal District in Lake Charles, Louisiana. LA DOTD survey feature codes were utilized for this project, and LA DOTD Right of Way maps along with COGOWIN legal descriptions were created. The maps followed the specifications set forth in the LA DOTD Location & Survey manual in conjunction with directions from LA DOTD agents. Maps went through LA DOTD's internal review process and have been accepted for final recordation.

**Firm Members**:Travis Bodin | Bradford Millett



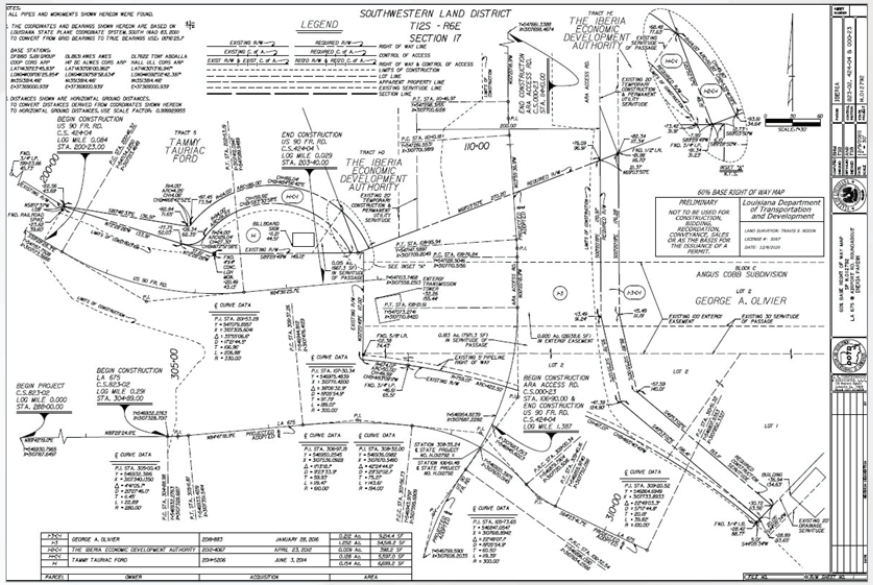
## 17. FIRM EXPERIENCE

| | | | |
|---|---|---|---|
| Firm name | **C. H. Fenstermaker & Associates, LLC** | Past Performance Evaluation Category(ies)* | Survey |
| Project name | **LA 675 Roundabout at Acadiana Regional Airport Access Roadway** | Firm responsibility (prime or sub?) | Prime |
| Project number | H.012792 | Owner's name | Iberia Parish Government |
| Project location | Iberia Parish, LA | Owner's Project Manager | Larry Richard |
| Owner's address, phone, email | 300 Iberia Street, Suite 400, New Iberia, LA 70560 \| (337) 365-8246 \| mlarryrichard@iberiagov.net | | |
| Services commenced by this firm | 11/20 | Total consultant contract cost ($1,000's) | $225 |
| Services completed by this firm | 05/22 | Cost of consultant services provided by this firm ($1,000's) | $225 |

Fenstermaker prepared construction plans and acquisition documents for the LA 675 Roundabout at Acadiana Airport Access Roadway in Iberia Parish. This roadway project will begin north of the intersection of LA 675 (Jefferson Island Road) and Acadiana Regional Access Road (ARA Access Road). The ARA Access Road will be extended to the south to connect to LA 675. The roundabout will be constructed at this connection and will consist of a single circulatory lane and singe-entry lanes with dedicated right-turn lanes. Reconstruction of the US Frontage Road will also be completed.

Fenstermaker provided topographic survey services, boundary survey services, created LADOTD Right-of-Way maps, generated roadway plans and profiles, designed the roundabout, designed the drainage, and completed an environmental assessment for this project.

**Firm Members**:Travis Bodin | Bradford Millett



Neel-Schaffer is uniquely experienced with this project because we have already provided some of the tasks (traffic/safety, horizontal alignment, public/stakeholder outreach and more) as part of our LA 328 Stage 0 for the APC. The image to the right shows the limits of our study in light blue.

We will leverage this existing project specific experience in our approach to completing the project.

# Section 18

Contract No. 4400028585

**Mills Ave & Rees St Intersection Imp**

**Route: LA 93 & LA 328**

We are aware that Mills is only one of several proposed roadway extensions which will provide increased connectivity. We considered these roadways in our study for the APC. The limits of our study are shown in light blue and the limits for additional proposed roadway extensions by the City of Breaux Bridge and APC are shown in dark blue.

## 18. APPROACH & METHODOLOGY:

### PROJECT BACKGROUND

The purpose of this project (when combined with the Mills Extension project) is to reduce congestion within the area by rerouting traffic from Bridge Street (LA 336-1) to Lafayette. Currently Bridge Street provides the only southern connection for the City of Breaux Bridge over Bayou Teche to Doyle Melancon Extension. Bridge Street suffers from congestion, without space for increasing capacity due to development. This project along with several roadway extensions which are being proposed by the city of Breaux Bridge and Acadiana Planning Commission (APC) provides increased connectivity within the area. Both Mills Avenue and E. Refinery Street will be extended to provide additional connections between La 328 and Doyle Melancon. In addition, the extension of Champagne Blvd will provide direct access to St. Martin Hospital. Reference the figure on this sheet and the divider for this section for NSI's exhibits which shows this proposed roadway network system.


Prior studies were completed along this corridor and Neel-Schaffer, Inc. (NSI) has the following connections:

1. H.013023 LA 328 (Rees St.) Corridor Study was completed by NSI for the Acadiana Planning Commission.
2. H.011279 LA 328 (Latiolais Dr. to Spanish Moss Dr.) was completed by DOTD with some NSI staff who will be utilized for this project.
3. NSI developed the most recent travel demand model for the project area.

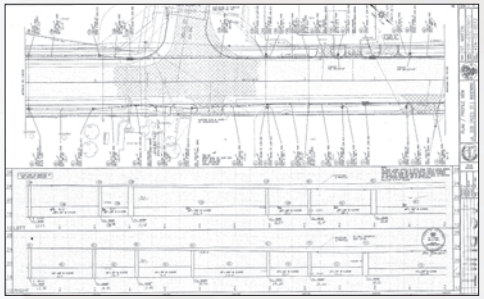
We are familiar with the challenges along the corridor and at this intersection of Mills Ave. and LA 328. Rees St. is a crucial transportation corridor for the city of Breaux Bridge and communities to the south of Breaux Bridge along Bayou Teche such as Parks and St. Martinville to I-10. The corridor experiences operational and safety issues due to the increase in traffic. The intersection at Mills is signal controlled and has a crash rate which exceeded the statewide average at the time we completed the LA 328 (Rees St.) Corridor Study. In addition, we determined the intersection had operational issues associated with delays which exceeded 55 seconds/vehicle. The posted speed is 40 MPH between East Refinery St. and E. Mills Ave; 45 MPH between E. Mills Ave. and Latiolais.

NSI considered a roundabout alternative at Mills Ave. and Rees St based on public input supporting a boulevard design with roundabouts at key intersections. These were presented during four public meetings and at a stakeholder meeting which were held by NSI. In addition to corridor improvements, this community desires an aesthetically pleasing corridor which supports redevelopment with facilities for both bike and peds, landscaping, and underground utilities. Some of these improvements would be located within a servitude that would be acquired by the city of Breaux Bridge apart from an LADOTD acquisition process. Under this project, we would look at a signal alternative as well at Mills Ave and Rees St. Our preliminary analysis indicates that a signal option with additional geometric improvements will provide acceptable operations.

***Project Specific***: ***NSI has completed a traffic analysis, alternative layouts and led both public and stakeholder meetings for the LA 328 Stage 0 study which includes the intersection of Mills and LA 328***. As part of our Stage 0 Study for the APC, we determined the feasibility of improving La. Hwy. 328/Rees Street including the intersection of E Mills Ave at LA 328. The improvements considered the impacts of the proposed E Mills Ave extension to Doyle Melancon Ext. The traffic and safety study was completed in accordance with DOTD's TEPR, three public meetings and stakeholder outreach meetings were held in accordance with NEPA. VISSIM was utilized to develop a video rendering of the proposed corridor concept operations to present at the public meetings, conceptual layouts, geometry and design criteria and cost estimates were completed for this portion of E. Mills Ave Extension. We are prepared to offer solutions which will streamline the projects advancement and will utilize our staff experience and understanding of the project to expedite the project completion.

### APPROACH AND METHODOLOGY

**Site Visit & Study of Existing Data**: Our team has already conducted an initial site visit to determine the existing site conditions, obtain utility data, and determine potential constraints. We recognize the constraints which exist within the project limits and have highlighted them in the ***existing constraints map provided on the divider for the next section, Section 19.*** We already have the as-built plans, aerial data and have established the existing geometry for LA 328 at Mills Avenue. We will utilize this existing data along with topo data to efficiently develop the preliminary plans, with minimized impacts and consideration for the upcoming Mills Ave. Extension.



MILLS ST./LA 328 AS-BUILTS

***Project Specific***: NSI will prepare a traffic/safety study in accordance with DOTD's Traffic Engineering Process and Report (TEPR). Proposed NSI staff has conducted the traffic and safety study of the H013023 – Rees Street (LA 328) Corridor Study and Plan which included the LA 328 (Rees St) at LA 94 (E Mills Ave) intersection along with the impacts of the proposed E Mills Ave extension and are very familiar with the proposed project, study area and other local planned improvements. NSI staff also have developed the most recent regional travel demand model as part of the Acadiana MPO - 2050 Metropolitan Transportation Plan.

**Traffic Analysis Overview**: NSI will provide a detailed summary of the scope of work to be performed for this traffic study. The scope of work will include project initiation meeting, data collection, existing safety analysis, existing and no build traffic analysis, TIER 1 analysis, preliminary TIER 2 and final Alternative analysis of proposed concepts, development of proposed alternative concept layouts and a final traffic report documenting the intersection improvements and effect of extending Mills Ave. Each of these is discussed in detail below.

Task 1: Project Initiation Meeting – NSI will coordinate and attend a project initiation meeting with DOTD Traffic Management and DOTD District representatives, MPO/APC and City of Breaux Bridge representatives to discuss the project, establish communication protocols, obtain background information, past studies, present proposed project schedule, etc.

## 18. APPROACH & METHODOLOGY:

Task 2: Initial Data Collection – NSI will use the peak period determined as part of the LA 328 (Reese St.) Corridor Study State Project H.013023, April 2020. NSI shall collect counts and do spot validation check at LA 328 and LA 94 to determine if the 2018 counts are still valid.

Task 3: Final Data Collection – NSI will conduct geometric checks, and turning movement counts of all users with demand, along with peak hour observations, at the intersections of LA 328 at E Mills Ave, Latiolais Dr at Doyle Melancon Ext, and Lion Castille Rd. at Doyle Melancon Ext. NSI shall utilize the growth rates established in LA 328 (Rees St.) Corridor Study. The final data collection will be submitted to DOTD as Chapter 1 and Appendix B for review and approval.

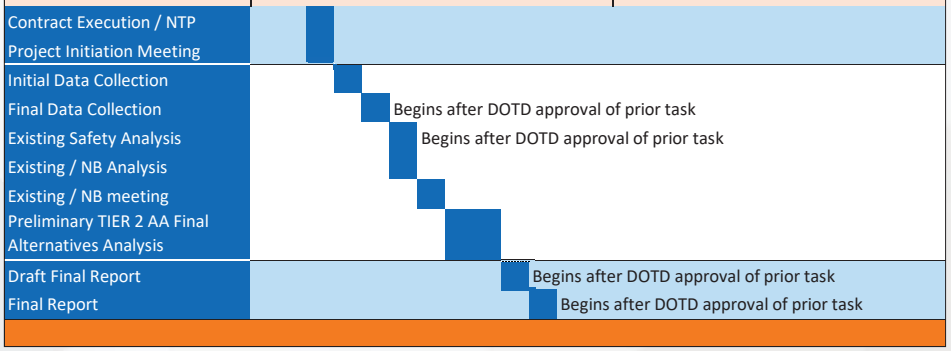
Tasks 4 and 5: Existing Safety Analysis & Existing and No Build Traffic Analysis – Upon approval of Chapter 1 and Appendix B, NSI will perform an existing safety analysis of the study area based on the latest 3 years of approved vehicular crash reports and the latest 5 years of approved ped/bike crash reports. The safety analysis will consist of using DOTD's CATScan tool to identify level of safety service and any flagged crashes; collision diagrams and crash report review and documentation. The safety analysis will provide a summary documenting and crash hotspots and potential causes of crashes. In addition, an existing and no build traffic operations analysis will be performed for all existing study intersections using multi-period analysis using HCS7 software. Based on the existing safety and traffic operations analysis, potential alternatives will be developed. In addition, TIER 1 analysis of the intersection of LA 328, Mills Ave, and the extension of Mills Ave. will be performed to evaluate potential intersection alternatives at this location using CAP-X and SPICE tools. These alternatives will take into consideration the future intersection of Champagne Blvd Extension with the Proposed E. Mills Avenue extension. The results will be submitted to DOTD in the form of Chapter 2 and Appendices C & D.

Task 6: Existing and No Build Meeting – Upon completion of the Existing and No Build Analysis, a meeting will be scheduled with DOTD and other stakeholders to present the Existing and No Build analysis findings as well as present and discuss the TIER 1 alternatives analysis.

Tasks 7 and 8: Preliminary TIER 2 and Alternative Analysis – The preliminary TIER 2 analysis will consist of developing redistributed build volumes due to the extension of Mills Avenue to Doyle Melancon as well as the development of high-level sketches on aerials showing high-level physical impacts along the corridor and analysis of proposed alternatives similar to the proposed concept previously illustrated. At this meeting, a recommended evaluation matrix will be provided and discussed. This evaluation matrix may include traffic operations, safety benefit, ROW impacts, cost, etc. This preliminary TIER 2 analysis will be coordinated with DOTD prior to proceeding with the final alternatives analysis. Once approved by DOTD, NSI will complete the alternative analysis which will include detailed critical geometry of the proposed alternatives to determine geometric feasibility of the proposed improvements and anticipated right of way (ROW) needs. The design criteria and geometric layouts for the alternative concepts will be developed using aerial photography and DOTD's design standards. The geometric layouts will include the identification of constraints and approximate right-of-way limits for evaluation of impacts. Develop preliminary cost estimates based on unit cost data with the use of the DOTD cost estimating tool. In addition, detail traffic operational analysis to document anticipated delays and queues as well as a summary of crash types that maybe reduced or eliminated by proposed alternative(s) will be documented. This submittal will include Introduction, Executive Summary, Chapter 3 and Appendix E.

Task 9: Final Report – Upon completion of the above tasks, NSI will combine the previous approved submittals to compile the Final Traffic Study report for submittal and approval by DOTD.

**Anticipated Project Schedule for Traffic Analysis** (exact schedule TBD)




**Project Kickoff Meeting**: Once the Traffic analysis has been completed and the NTP is received for Preliminary Plans, NSI will attend the Project initiation meeting for the design phase. Communication protocols, project schedule and submittal stages will be discussed and design criteria will be presented.

**Preliminary Plans**: Our traffic control and signal design will use DOTD's EDSM VI.1.1.2 – Intersection Control Evaluation (ICE) Requirements to determine if a full access intersection is the preferred alternative and if Warrant 1A (100%), Eight-Hour Vehicular Volume or Warrant 7, Crash Experience, are met in accordance with the requirements outlined in the latest version of the Manual on Uniform Traffic Control Devices (MUTCD). If a signalized full access intersection is required, the traffic signal will be design in accordance with DOTD's Traffic Signal Manual V3 (7-1-2020), standard specifications and standard details. The traffic signal plans will use DOTD's Traffic Signal Inventory Construction Plan V3.2 form for developing the plans.

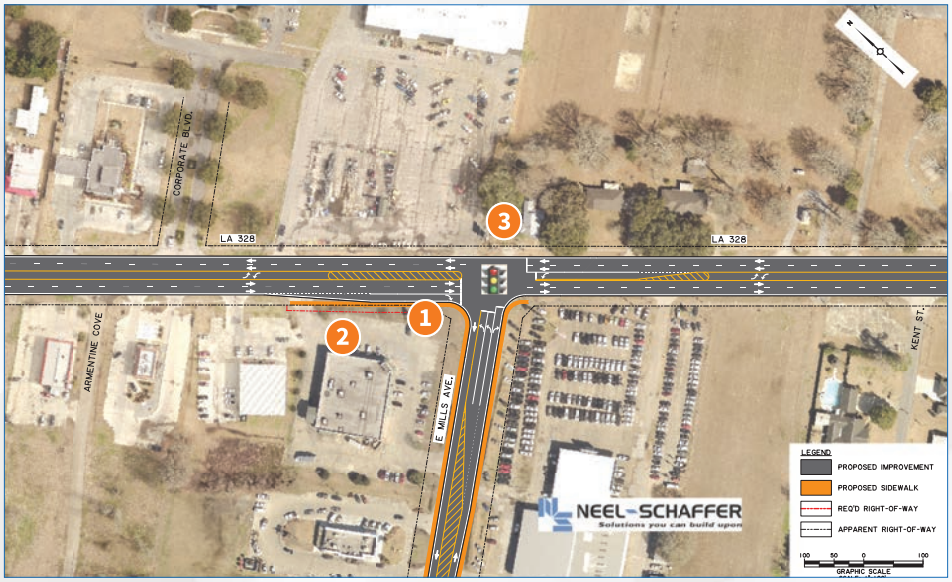
Our ***roadway engineering design*** will be completed in conformance with the latest requirements of the LADOTD Roadway Design Procedures and Details, the LADOTD Engineering Directives and Standards (EDSMs), the American Association of State Highway and Transportation Officials (AASHTO) Policy on Geometric Design of Highways and Streets, and AASHTO Roadside Design Guidelines. We will provide plans created utilizing CADConform and in compliance with the DOTD CAD standards. Our roadway design will be completed with the use of Power InRoads (SS2) and our construction cost estimates will utilize the DOTD standard bid items and the DOTD's Bid history estimate tool, with consideration for the project location and magnitude of items. Our staff also has design experience with OpenRoads and can provide the design in this software if desired by DOTD.

Our drainage design will be completed in conformance with the DOTD Hydraulics Manual. We will utilize LADOTD HydroWIN software for open channel flow (Hydro1140), inlet spacing (Hydro6000), analysis of culverts (Hydro1120) and storm sewer system design (Hydro6020).

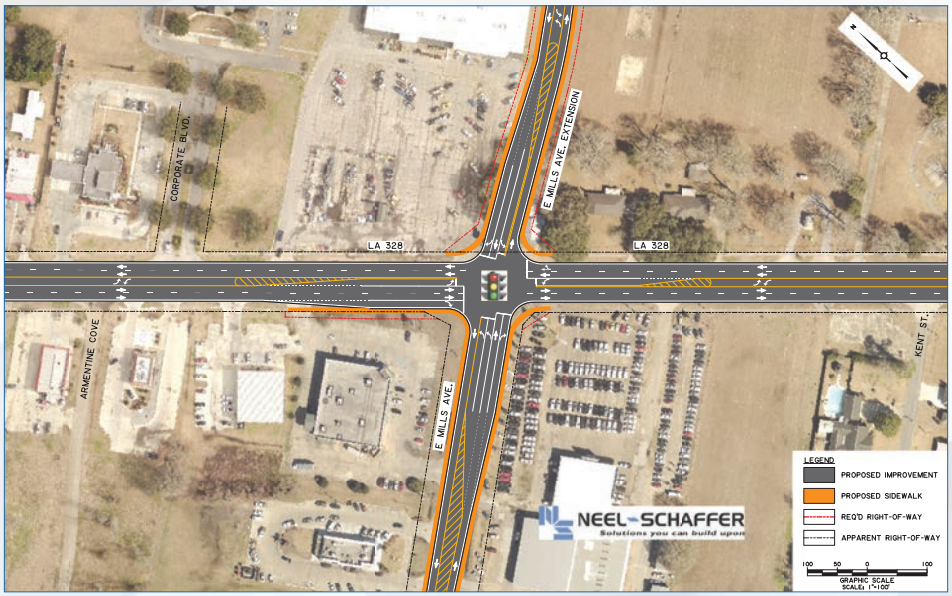
***Project Specific***: We have already completed a preliminary operations analysis for this project and created a conceptual layout which shows the required intersection improvements both with and without Mills Extension (see following page). This will be refined based on the findings of the traffic study but provides a realistic reflection of the constraints of the corridor and potential recommendations for safety and operations improvements.

## 18. APPROACH & METHODOLOGY:

### NEEL-SCHAFFER'S CONCEPT LAYOUT FOR THIS PROJECT WITHOUT MILLS AVE EXT




### NEEL-SCHAFFER'S CONCEPT LAYOUT WITH MILLS AVE EXT




The images to the left show the results of a preliminary operations analysis which NSI completed for this proposal. These layouts show both the existing constraints and how the design of this project should also consider the Mills Ave. Ext. A well designed project will provide interim improvements with infrastructure which meet the existing and future need for the intersection. This layout considers the existing constraints and provides a design which avoids utilities, impacts to developed property and considers the Mills Ave. Extension roadway. In addition it provides pedestrian access, which is greatly supported by this community. The constraints are as follows:

1. The right turn lane for LA 328 is located in the southwestern quadrant of the intersection. There are communication fiber optic lines and a waterline at this location which must be avoided with the improvements. We will coordinate with utility owners and provide a drainage design without conflicts to these utilities.
2. In addition, Walgreens has parking in the vicinity which cannot be impacted. It is anticipated that a small amount of right-of-way may be required at this location but the project can be designed without impacts to parking.
3. If signal improvements/replacement is recommended as part of this project, we will design the replacement signal with consideration for the future Mills Ext. The signal equipment will not conflict with the proposed improvements for the extension and the arm length will accommodate the additional lane which will be required for E. Mills Ave (see layout to the lower left).

30% Preliminary Plans: 30% preliminary submittal will include the title sheet, typical sections and roadway plan and profile sheets with existing topography shown.

60% Preliminary Plans: Our 60% preliminary plan set will include all the sheets previously submitted during 30% preliminary plans but at a higher level of detail. In addition, the existing drainage map, proposed drainage map, drainage plan and profiles, geometric details, cross sections, preliminary design report, construction notes and details and the drainage report will be submitted at the 60% preliminary plan milestone. This phase typically begins the utility relocation recommendation phase, establishment of preliminary right-of-way takings (if applicable). We will refine the geometry submitted during the 30% Preliminary Plan submittal to address comments and model the corridor utilizing Power InRoads (SS2) and the topo dtm file provided by CHF. The pavement section approved by DOTD will be utilized to create InRoads templates and check for the required construction and hydraulic clearances. The drainage design and report will be completed during this phase. Our drainage design will comply with the DOTD Hydraulics Manual and will utilize DOTD's HYDRWIN software. The roadway drainage system will be designed utilizing the rational method for a 10 year design storm. This is the phase where public outreach can begin if it is required. Should a public meeting be required, NSI is prepared to provide DOTD with all public meeting exhibits for the design, create a PowerPoint presentation, handouts, comment forms secure the venue, and conduct the meeting.

95% Preliminary Plans and Plan-In-Hand (PIH): The 95% Preliminary Plan submittal will include all of the sheets previously submitted but in more detail. This submittal will include the traffic signal plans (if applicable). The traffic signal plans will consist of the proposed signal equipment layout sheets and proposed signal phasing and timing based on the intersection geometry. This will include signal pole locations, power source location, traffic control cabinet/control, vehicular and pedestrian signal heads, and vehicle detection.

## 18. APPROACH & METHODOLOGY:

This submittal will also include the summary of estimated quantities sheets (pay items only) and the suggested sequence of construction sheets. Our construction phase will maintain the existing through lanes and allow for access to all properties during construction. Therefore, a Level 2 TMP should be required for this project per EDSM VI.1.1.8. The draft TMP will be provided at this time. The comments from the 60% Preliminary Plans will be addressed, preliminary right-of-way taking lines will be completed. The Preliminary QA/QC checklist and Plan-In-Hand Checklist will be completed during this phase. Should a PIH meeting be requested, we will attend and summarize comments.

100% Preliminary Plans: This plan set will address any comments from the PIH. Preliminary cost estimate, permit sketches and final right-of-way is provided to Location and Survey during this phase. We will provide the Final Design Report with this submittal. Should revisions to one or more design criteria be required after this phase, we will submit a Revised Design Report with a brief description of the revision.

DOTD will obtain the environmental clearances and obtain any required permits. NSI will provide all required supporting documents (including but not limited to) permit drawings such as 404 permits which typically are letter size and should be produced separately from design plans due to the difference in scale.

Final Plans: Once an environmental decision is received and a notice-to-proceed with final plans has been issued we will begin preparing the 60% Final Plans.

60% Final Plans: We will submit updates of the deliverables included in the 60% preliminary plan submittal in addition to the Summary sheets and Construction notes for review. Property surveys will be required and Right-of-way maps will be prepared so that the joint plan review meeting can be held. If updates are required to the Design Report, they will be submitted at this time.

The traffic signal plans will include the final signal equipment layout, proposed signal phasing and timings, traffic signal wiring diagram/wiring chart, a list of potential pay items and summary quantity sheets without quantities will be developed and any required design reports will be provided.

While it is not anticipated that non-standard specifications will be required for this project, we are able to provide these specifications as part of this submittal.

95% Final Plans: We will revise the preliminary cost estimate, complete the constructability review form and the Final Plans QA/QC Form during this phase.

For the 95% final roadway/intersection plan submittal, the traffic signal plans will consist of addressing comments from the 60% final plans. With this submittal, the final signal equipment layout will be provided along with the final traffic signal wiring diagram, signal phasing and timing charts, detection chart, preemption phasing and parameters (if required) pay items and estimated quantities, and opinion of estimated traffic signal construction cost. DOTD will review the Advance Check Prints (ACP).

98% Final Plans: We will address the ACP comments and complete the final cost estimate, we will provide the SWPPP form, NOI form, and provide the DOTD Contract Time Worksheet. During this phase, the Plan Quality Unit will review and once approved, we will produce the 100% Final Plan Set for the Chief Engineer's Signature. We will also provide the Final Stamped and Signed copy of the Design Report, and final TMP.

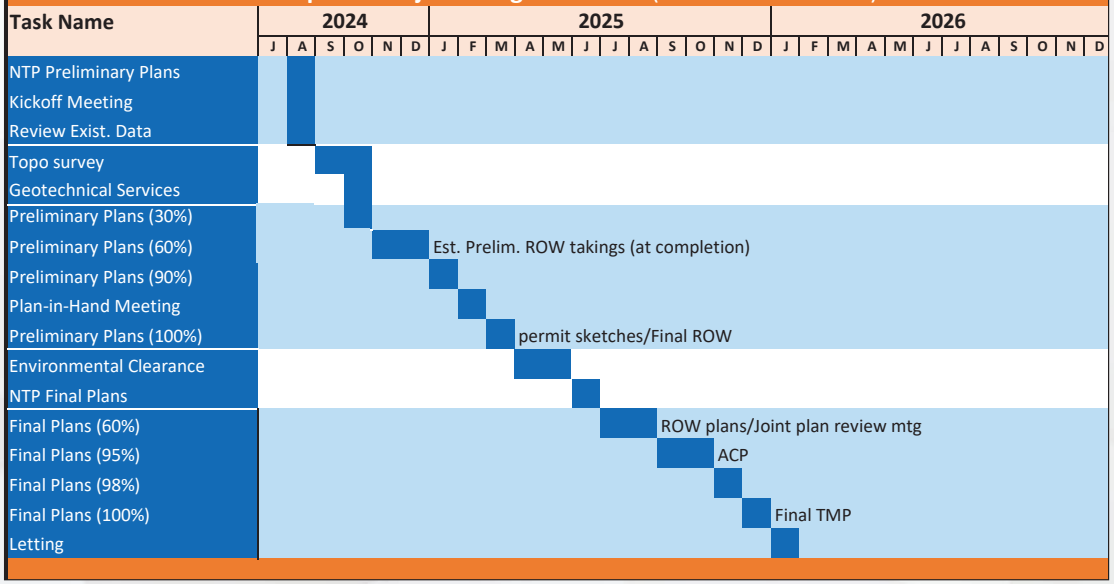
For the 98% final roadway/intersection plan submittal, the traffic signal plans will consist of addressing comments from the 95% final plans. With this submittal, the final signal equipment layout will be provided along with the final traffic signal wiring diagram, signal phasing and timing charts, detection chart, preemption phasing and parameters (if required) pay items and estimated quantities, and opinion of estimated traffic signal construction cost. In addition, any required technical specifications will be provided.

100% Final Plans: We will submit 100% signed Final Plans (Full Size Plan Set with Mylar Title Sheet) along with an electronic submittal. During this phase, the plans are transmitted to General Files.

For the 100% final roadway/intersection plan submittal, the traffic signal plans will consist of addressing comments from the 98% final plans. With this submittal, the final stamped and signed traffic signal plans will be provided. The signal equipment layout will be provided along with the final traffic signal wiring diagram, signal phasing and timing charts, detection chart, preemption phasing and parameters (if required) pay items and estimated quantities, opinion of estimated traffic signal construction cost and technical specifications.

**Construction Support:** We understand that the construction services will be provided by others, but our engineering support during construction will provide critical services to help ensure the successful completion of the construction phase. We will review the bids for irregularities and conformance with DOTD's acceptable overrun and underrun from the estimated construction cost. We will review shop drawings, respond to RFI's within 48 hrs and assist with information meetings with a 24 hour notice. We will provide design corrections to minor design changes within 7 calendar days.

**Anticipated Project Design Schedule** (exact schedule TBD)



# Existing Constraints Map


## Section 19

**NSI completed a preliminary analysis for the signalized alternative and this concept drawing which shows the results for operational improvements.**

1. Walgreens parking lot is located where a turn lane is required. NSI's concept avoids impacts to parking
2. Communication Fiber optic lines and a water line are not anticipated to conflict with proposed improvements.
3. Should signal replacement be required as part of this project, we will design the arm length and foundation location to meet the needs of this project and with consideration for the Mills extension (no conflicts with signal foundation and arm length to accommodative additional turn lanes).
4. Additional ROW will likely be required for the EB right turn lane.

## 19. WORKLOAD:

| Firm(s) | Past Performance Evaluation Discipline(s)* | Contract Number & State Project Number | Project Name | Remaining Unpaid Balance** |
|---|---|---|---|---|
| Neel-Schaffer, Inc. | Planning | SPN 736-99-1548 | Travel Demand Model Support Services Statewide (PRIME) | $55,425 |
| | Road | SPN 4400005673 | I-49 South at Verot School Road, Lafayette Parish, (SUB) | $20,194 |
| | Traffic | 4400010428 SA 4, H.004774; H.007300.6 | Kansas Lane: Garrett Road Connector and I-20 Improvements (SUB) | $1,400 |
| | ITS | 4400010428 EWL 3, H.004774.5; H.007300 | Kansas Lane: Garrett Road Connector and I-20 Improvements (SUB) | $805 |
| | Traffic | 4400010428 SA 5, H.004774; H.007300.6 | Kansas Lane: Garrett Road Connector and I-20 Improvements (SUB) | $3,810 |
| | Planning | 4400015733, H.972374.1 | Local Public Agency Documented Planning Process, Statewide | $425,245 |
| | Road | 4400017293, H.010616 | I-20: LA 544 Overpass Replacement | $26,300 |
| | ITS | 4400016364, H.013256.6 | I-10 ITS Scott to Lake Charles Technical Support Services During Construction | $8,917 |
| | ITS | 4400016364, H.011504.5 | Alexandria ITS Phase 2 | $54,897 |
| | ITS | 4400016364, H.015136.1 | Northshore Regional ITS Architecture Update | $35,499 |
| | Traffic | 4400017438, H.013284 | MRB South GBR: LA 1 to LA 30 Connector, Ascension, EBR, Iberville & WBR | $86,734 |
| | Traffic | 4400018271, H.014746.1 | LA 383 Corridor Study | $7,224 |
| | Planning | 4400018271, H.014746.1 | LA 383 Corridor Study | $65,245 |
| | Planning | 440023689, H.015148.5 | District 03 Safety Investment Plan | $131,385 |
| | Planning | 4400021094 | Update Statewide Transportation Plan and Travel Demand Model | $157,178 |
| | Planning | 4400023689, H.015227.5 | US 61 at Victoria Dr. Ped Crossing | $50,891 |
| | Traffic | 4400026458, H.014710.5 | Cedar Street Ext. to LA 22 and Roundabout | $169,073 |
| | Planning | 4400018271, H.012042 | LA 384 (Big Lake Rd to McNeese Street) | $419,502 |
| | Road | 4400024927, H.0 15226.5 | US 90: Roundabout at LA 101 | $290,000 |
| Terracon Consultants, Inc. | Environmental | H.015012 | OSB Washington Parish | $3,300 |
| | Geotech | 4400025027 | IIJA Off-System Bridge Program | $165,000 |
| | Geotech | H.014979 | OSB Acadia Parish - Airport Road S.P. H.014979 | $3,300 |
| | Geotech | H.015511 | IIJA Off-System Bridge | $271,000 |
| | Geotech | 4400024651 \| H.005967 | Nelson Road Ext | $200,883 |
| | Geotech | H.015338 | Off-System Bridge Replacement | $180,000 |
| | Geotech | 4400019014 \| H.012048.5 | Castor Creek and Relief Bridges | $248,823 |

## 19. WORKLOAD:

| Firm(s) | Past Performance Evaluation Discipline(s)* | Contract Number & State Project Number | Project Name | Remaining Unpaid Balance** |
|---|---|---|---|---|
| Terracon Consultants, Inc. | Geotech | 4400019014 \| H.012537 | LA154, LA157 - Red Chute BYU & Flat RVR BRS | $77,709 |
| | Geotech | 4400019014 \| H.003931.5 | I-10- Calcasieu River Bridge Additional Borings | $109,275 |
| | Geotech | 4400019014 \| H.002868 | I-49 Frontage Road Bridges PDA Testing | $195,100 |
| | Geotech | 4400006191 \| H.000385 | US 190- LA 415 & RR OVERPASS REPL | $214,775 |
| | Geotech | 4400006191 \| H.005121 | LA-1 and LA-415 Connector | $229,459 |
| | Environmental | 4400012893 (SA 1) \| H.004273.5 | I-49 Connector | $25,197 |
| | Geotech | H.011235.5 | I-49 at Verot School Road | $24,409 |
| | Other (Materials) | H.011670 | Loyola Interchange | $411,446 |
| C. H. Fenstermaker & Associates, L.L.C. | Road | 4400020291; H.012869 | LA 182 / Renaud Roundabout | $185,356 |
| | Bridge | 4400025023; H.015513 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Elenor Road Over Coulee | $113,000 |
| | Bridge | 4400025023; H.015335 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Puma Road Over Coulee | $191,500 |
| | Bridge | 4400025023; H.015516 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Beiber Road Over Nezpique Bayou | $118,250 |
| | Bridge | 4400025023; H.015512 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Mullins Road Over Tate Bayou | $132,400 |
| | Bridge | 4400025023; H.015511 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 E. Martial Ave Over Coulee | $90,700 |
| | Bridge | 4400025023; H.015515 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Andover Road Over Indian Bayou Lateral | $179,750 |
| | Bridge | 4400025023; H.015514 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Sarah Dee PKWY. Over Coulee | $187,250 |
| | Bridge | 4400025023; H.015505 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 0 Solid Wastewater Road Over Bayou Boeuf | $116,700 |
| | Bridge | 4400025023; H.015510 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Phillip Street Over Drainage Bayou | $188,250 |
| | Bridge | 4400025023; H.015509 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Huval Street Over True Canal | $180,250 |
| | Bridge | 4400025023; H.015508 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Adam Guidry Road Over Coulee | $192,500 |

| | | | | |
|---|---|---|---|---|
| C. H. Fenstermaker & Associates, LLC | Bridge | 4400025023; H.015507 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Minos Road Over Coulee | $188,750 |
| | Bridge | 4400025023; H.015506 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Aristide Road Over Coulee | $176,300 |
| | Bridge | 4400025023; H.015517 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Guegnon Street Over Youngs South Coulee | $195,000 |

## 20. CERTIFICATIONS/LICENSES:

SEE ATTACHED

# *Certificate of Completion*

presented to

*Nick Ferlito*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 4

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Nick Ferlito*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 2

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

*Professional Development Hours (PDHs) Awarded:* 4

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Nick Ferlito*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Vijay Kunada*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 1

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

*Professional Development Hours (PDHs) Awarded:* 2.5

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Vijay Kunada*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 2

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

*Professional Development Hours (PDHs) Awarded:* 3.5

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Vijay Kunada*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Dishili Young*

for completing the

## Traffic Engineering Analysis Process & Report Module 1

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Dishili Young*

for completing the

## Traffic Engineering Analysis Process & Report Module 2

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Dishili Young*

for completing the

## Traffic Engineering Analysis Process & Report Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Santosh Andem*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 1

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

*Professional Development Hours (PDHs) Awarded:* 2.5

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Santosh Andem*

for completing the

## Traffic Engineering Analysis Process & Report Module 2

*Date:* August 6, 2018

*Location:* Baton Rouge, Louisiana

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Santosh Andem*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Jonathan Duhe*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 1

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

*Professional Development Hours (PDHs) Awarded:* 2

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Jonathan Duhe*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 2

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Jonathan Duhe*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Charles LeBoeuf*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 1

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

*Professional Development Hours (PDHs) Awarded:* 2

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Charles LeBoeuf*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 2

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Charles LeBoeuf*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Seth Popay*

for completing the

## Traffic Engineering Analysis Process & Report Module 1

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Seth Popay*

for completing the

## Traffic Engineering Analysis Process & Report Module 2

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Seth Popay*

for completing the

## Traffic Engineering Analysis Process & Report Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Gary Leblanc*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 3**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

# *Certificate of Completion*

presented to

*Gary Leblanc*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 2**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

# *Certificate of Completion*

presented to

*Gary Leblanc*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

# *Certificate of Completion*

presented to

## *Kirk Gallien*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 1

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

*Professional Development Hours (PDHs) Awarded:* 2.5

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Kirk Gallien*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 2

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

*Professional Development Hours (PDHs) Awarded:* 3.5

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

## *Kirk Gallien*

for completing the

## Traffic Engineering Analysis Process & Report
## Module 3

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor*

*Authorized Instructor*

*Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

## 21. QA/QC PLAN:

N/A

## 22. SUB-CONSULTANT INFORMATION:

| **Firm Name** (Name must match as registered with Louisiana's Secretary of State) | **Address** | **Point of Contact and email address** | **Phone Number** |
|---|---|---|---|
| **Terracon Consultants, Inc.** | 2822 O'Neal Lane, Building B<br>Baton Rouge, LA 70816 | Lynne Roussel, P.E.<br>Lynne.Roussel@terracon.com | (225) 239-2632 |
| **C. H. Fenstermaker & Associates, L.L.C.** | 135 Regency Square<br>Lafayette, LA 70508 | Travis Bodin, MBA, PLS, PMP | (337) 237-2200 |

## 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.