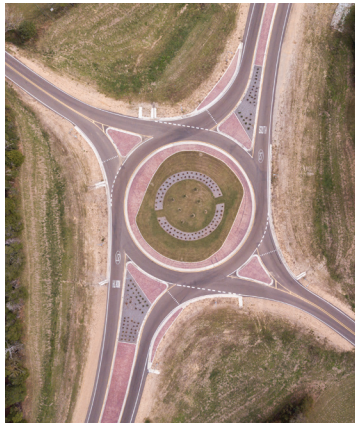


A wide, paved pedestrian walkway lined with colorful, modern buildings under a blue sky with clouds. The walkway is made of reddish-brown bricks and is bordered by low wooden posts. The buildings are in various colors (yellow, orange, white) and have large windows. In the background, a church with a steeple is visible.



A photograph of a residential street. In the foreground, there is a wide, green grassy median strip. To the right of the median is a paved sidewalk. A road with a white dashed line runs to the left of the median. Several cars are visible on the road. In the background, there are houses and trees. A large, white, curved structure, possibly a bridge or overpass, is visible in the distance.





June 19, 2020

Gulf Regional Planning Commission (GRPC)
1635 Popp's Ferry Road, Suite G
Biloxi, MS 39532

RE: Qualifications to Perform Traffic Studies

Dear GRPC Selection Committee:

Pickering is pleased to send the GRPC our qualifications as they relate to Traffic Engineering and Traffic Studies.

Included in this qualifications submittal you will find our professional staff proposed for this project, similar project experience and our team's capabilities. We invite your review and welcome your feedback – comments and/or questions.

We have chosen to include Southern Traffic Services (STS) as subconsultant on our team. STS is out of Gulf Breeze, Florida and we will utilize their services to provide *traffic counts and turning movements*. STS brings over 30 years of expertise as it relates to data collection and traffic studies.

Coordination of our efforts will be through our Pickering Biloxi office. I will serve as your Project Manager and point of contact. I am a registered Professional Engineer, a Principal Owner of our firm and manage Pickering's Gulf Coast Operations.

We certainly appreciate this opportunity. Please let me know if you have any questions or require any additional information.

Sincerely,

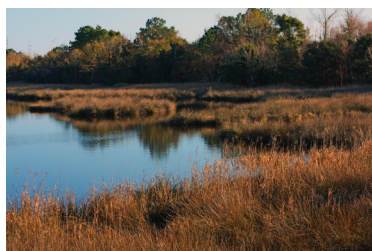
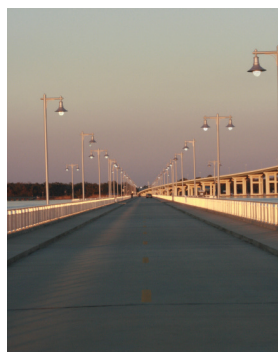
PICKERING FIRM, INC.

A handwritten signature in blue ink, appearing to read "Andy Phelan", is written over a light blue horizontal line.

Andy Phelan, PE
Principal Owner and Project Manager
228.229.5021 (Mobile)

Cover Letter

- | | |
|---|----------------------|
| 1. Firm Qualifications
<i>Organizational Chart; Resumes</i> | Pages 1 - 12 |
| 2. Firm Experience
<i>Similar Project Experience</i> | Pages 13 - 18 |
| 3. Firm Capability
<i>Project Understanding</i> | Pages 19 - 24 |





Firm Qualifications



Organizational Chart



Richard Ferguson, PE

Principal Owner / Project Manager & Senior Bridge Engineer



Years of Experience

Total: 29

Current Firm: 19

Education

Bachelor of Science,
Civil Engineering,
University of
Mississippi, 1991

Registrations

Registered
Professional
Engineer
MS #12953, AL, AR,
LA, and TN

Certifications

FHWA-NHI-
130081D LRFD for
Highway Bridge
Superstructures

Affiliations

ASCE, MES

Rick Ferguson is the project manager of all transportation projects in Pickering's Mississippi operations. He is actively involved in all projects with a specialization in bridge design. He has designed numerous bridges that required the design of prestressed concrete beams, steel welded plate girders or steel welded box girders. His responsibilities include project management and bridge design.

Related Project Experience

♦ City of Diamondhead Traffic Circulation Study – Hancock County, MS

Project Manager for a Local Public Agency (LPA) project with the City of Diamondhead for a traffic study to analyze and recommend necessary improvements to the City of Diamondhead roadway infrastructure at the Yacht Club/Gex Road Interchange with Interstate 10.

♦ MS 25 Road Safety Audit – Tishomingo County, MS

Project Manager for a Mississippi Department of Transportation (MDOT) project for a Road Safety Audit (RSA) for MS 25 in Tishomingo County from the Itawamba/Tishomingo County Line to the Tennessee State Line.

♦ MS 25 Road Safety Audit Implementation – Tishomingo County, MS

Project Manager for Roadway plans for a Mississippi Department of Transportation (MDOT) project for Phase B plans for the improvements to MS 25.

♦ McIngvale Road Realignment – Desoto County, MS

Project Manager for a City of Hernando project for the realignment of McIngvale Road from Byhalia Road to Green T Road south of the Interstate 269 underpass. This new route is approximately 1.4 miles in length and will be a five-lane boulevard section with curb and gutter.

♦ East Metropolitan Corridor – Rankin County, MS

Project Manager and Bridge plans for a Local Public Agency (LPA) project with the East Metropolitan Corridor Commission for 5.0 miles of a four-lane roadway on a new alignment from Interstate 20 to MS 25. Responsibilities include bridge design, constructability review, load ratings and construction engineering.

♦ Bulldog Way – Mississippi State University, MS

Project Manager for a Local Public Agency (LPA) project with Mississippi State University for a two-lane roadway on new alignment from Blackjack Road to Lee Boulevard. The project is being

funded by a \$7 million Transportation Investment Generating Economic Recovery (TIGER) grant approved by the U.S. Department of Transportation.

♦ **Interstate 55 Under Reunion Parkway – Madison County, MS**

Bridge plans for a Local Public Agency (LPA) project with the Madison County Board of Supervisors for a new overpass bridge over Interstate 55. Responsibilities include bridge design, constructability review and load rating.

♦ **Landon Road Widening and Reconstruction Phase II – Harrison County, MS**

Project Manager for a Local Public Agency (LPA) project with the Harrison County Board of Supervisors for 0.22 miles of upgrading an existing two-lane roadway to a five-lane roadway from 34th Avenue to Coleman Road.

♦ **Landon Road Widening and Reconstruction – Harrison County, MS**

Project Manager for a Local Public Agency (LPA) project with the City of Gulfport for 0.27 miles of upgrading an existing two-lane roadway to a five-lane roadway from Coleman Road to US 49.

♦ **Grand Gulf Access Road – Claiborne County, MS**

Project Manager and Bridge plans for a Local Public Agency (LPA) project with the Claiborne County Board of Supervisors for 4.4 miles of a four-lane roadway on a new alignment from US 61 north of Port Gibson to the Grand Gulf Nuclear Station. Responsibilities include bridge design, constructability review and load ratings.

♦ **MS 27 Roundabout Construction – Copiah County, MS**

Project Manager for a Mississippi Department of Transportation (MDOT) project for a rural roundabout at the intersection of MS 27 and Lee Avenue/Old Highway 27 No. 1. Design of the roundabout is in accordance with NCHRP Report 672 and improves traffic flow through a dangerous intersection. This project won the ACEC of Mississippi's Engineering Excellence Grand Award for 2018.

♦ **Dedeaux Road – Harrison County, MS**

Project Manager for a Local Public Agency (LPA) project with the City of Gulfport for 2.7 miles of upgrading an existing two-lane roadway to a five-lane roadway from Three Rivers Road to MS 605.

♦ **Old U.S. 90 Fishing Pier - City of Biloxi, MS**

Project Manager and Bridge plans for a Local Public Agency (LPA) project with the City of Biloxi for the reconstruction of the Old U.S. 90 Fishing Pier at Point Cadet. The new pier accommodates two lanes of traffic with handicap (ADA) accessible sidewalks on both

sides and multiple vehicle turn arounds. Responsibilities include bridge design, constructability review and load rating.

♦ **Popp's Ferry Road Widening and Reconstruction – Harrison County, MS**

Project Manager and Bridge plans for a Local Public Agency (LPA) project with the City of Biloxi for the replacement of the causeway bridge across the Biloxi Back Bay. Responsibilities include bridge design, constructability review and load rating.

Years of Experience

Total: 15

Current Firm: 15

Education

Bachelor of Science, Civil Engineering,
University of MS,
2005, Cum Laude

Registrations

Registered Professional Engineer in MS #19480

Affiliations

Beta Pi (Engineering Honor Society)

Chi Epsilon (Civil Engineering Honor Society)

2015 Young Engineer of the Year

American Society of Civil Engineers (ASCE),
Mississippi Section: Gulf Coast Branch President (2015)

American Public Works Association

Ocean Springs Planning Commission: Chairman

Gulf of Mexico Alliance Business Advisory Council

MDOT LPA Training & Certification

As a Principal Owner of Pickering, Andy Phelan provides project management and civil engineering design for numerous projects including design of stormwater conveyance and detention systems, civil site design, erosion control measures, roadway design, and utility design. He is skilled in using AutoCAD, Civil 3D, Hydroflow, and Microsoft Office.

Related Project Experience

♦ Howard Avenue Improvements – Biloxi, MS

Project Manager for the improvements to Howard Avenue between Nixon Street and Reynoir Street. The improvements entail widening Howard Avenue to accommodate two-way vehicular traffic, parking, and new sidewalks. Also included are cold-milling and overlaying of the existing pavement between Lameuse Street and Dr. Martin Luther King Jr. Boulevard, as well as the reconfiguration of the intersection at Dr. Martin Luther King Jr. Boulevard and Howard Avenue to accommodate westward traffic.

♦ Drainage and Recreational Improvements to Coffee Creek – City of Gulfport, MS

Responsible for project management, hydrologic and hydraulic study and report, design of improvements to an existing stormwater conveyance system, design of recreational enhancements including new walking trails, lighting, pedestrian bridges, and development of construction plans.

♦ Gulfport Citywide Paving Project, Phase 6 – City of Gulfport, MS

Project Manager responsible for the development of construction plans for roadway repairs, asphalt overlay, ADA improvements, and roadway restriping. Also included was the development of an opinion of probable costs, assisting with obtaining necessary permits for project areas, development of work authorization forms, performing daily resident project representative services and reports, coordinating testing services, and preparing pay applications and recommending payment for contractor's work. Gulfport identified multiple areas in need of asphalt overlay, minor roadway/infrastructure repairs, and ADA sidewalk repair/improvements. Phase 6 consisted of 13 roads throughout the City. *Construction Cost: \$570,000*

♦ Strategic Infrastructure Implementation Program – City of Gulfport, MS

Project Engineer assisting the City of Gulfport with the development of an Implementation Program for its sewer, water, drainage, and transportation infrastructure improvement needs. Responsibilities included identifying and prioritizing capital improvement needs, assisting the City with determining estimated improvement costs, determining potential funding sources, and preparation of a report and graphics detailing the above.

♦ Biloxi Infrastructure Repair Program – City of Biloxi, MS

Project Engineer for the repair/replacement of existing utilities damaged by Hurricane Katrina. Responsibilities included project management, mapping drainage basins based on quadrangle maps, site surveys and field

visits, resizing storm pipes and structures to meet more stringent design standards, redesign of roadway alignments, rerouting and resizing water and sewer lines, and coordination of horizontal and vertical conflicts between all existing and proposed utilities. Project included removal and replacement of existing water, sewer, pavement, and storm water drainage systems in existing subdivisions affected by Hurricane Katrina.

Construction Cost: \$9.2 million

♦ **Old U.S. 90 and Back Bay Fishing Piers – City of Biloxi, MS**

Project Engineer responsible for verifying compliance with the project specifications on all contract items and assisting ACI-certified personnel with routine concrete materials testing. Project consisted of the removal of two fishing piers (old highway bridges) that were damaged by Hurricane Katrina and the reconstruction of the Old U.S. 90 Fishing pier on the Back Bay of Biloxi. Provided assistance to the lead inspector during the construction oversight phase of the project and exhibit preparation for permitting. *Construction Cost: \$9 million*

♦ **Gulf Region Water and Wastewater Master Plan – Jackson, Pearl River and Hancock County, MS**

Project Engineer for the implementation of projects identified during development of the Gulf Region Water and Wastewater Master Plan to update water and sewer systems affected by Hurricane Katrina. Responsibilities included project coordination with local entities, change order review, as-built plan review, and ensuring water and wastewater projects meet the intent of the project's Master Plans.

Construction Cost: \$654 million

Years of Experience

Total: 16

Current Firm: 8

Education

Bachelor of Science,
Civil Engineering,
California
Polytechnic State
University, 2004

Registrations

Registered
Professional
Engineer

AR #19428

CA # 74683

MS #20849

TN # 122285

Professional Traffic
Operations
Engineer (PTOE)
Cert. #4449

Matthew Warkentin is a Transportation Engineer in Pickering's Mississippi Operations. He is actively involved in all phases of roadway projects with a specialization in traffic control and traffic modeling. His responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.

Related Project Experience

♦ **Gateway Global Logistics Center Traffic Study – Marshall County, MS**

Traffic Study for a private developer to analyze and recommend necessary improvements to the Gateway Global Logistics Center roadway infrastructure and access improvements to MS 302.

Responsibilities include traffic data collection, trip generation, traffic modeling and recommendations to improve traffic flow in and out of the industrial park.

♦ **City of Diamondhead Traffic Circulation Study – Hancock County, MS**

Traffic Study for a Local Public Agency (LPA) project with the City of Diamondhead to analyze and recommend necessary improvements to the City of Diamondhead roadway infrastructure at the Yacht Club/Gex Road Interchange with Interstate 10. Responsibilities include traffic data collection, trip generation, traffic modeling and recommendations to improve traffic flow between residential and commercial areas north and south of the interchange.

♦ **Landon Road Widening and Reconstruction Phase II – Harrison County, MS**

Roadway plans for a Local Public Agency (LPA) project with the Harrison County Board of Supervisors for 0.22 miles of upgrading an existing two-lane roadway to a five-lane roadway from 34th Avenue to Coleman Road. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.

♦ **Landon Road Widening and Reconstruction – Harrison County, MS**

Roadway plans for a Local Public Agency (LPA) project with the City of Gulfport for 0.27 miles of upgrading an existing two-lane roadway to a five-lane roadway from Coleman Road to US 49. Responsibilities include roadway design, drainage design, erosion control, traffic control, traffic signals, permanent striping and permanent signing.

♦ **Dedaux Road – Harrison County, MS**

Roadway plans for a Local Public Agency (LPA) project with the City

of Gulfport for 2.7 miles of upgrading an existing two-lane roadway to a five-lane roadway from Three Rivers Road to MS 605.

Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping, permanent signing and traffic signal plans.

◆ **MS 25 Road Safety Audit – Tishomingo County, MS**

Report and recommendations for a Mississippi Department of Transportation (MDOT) project for a Road Safety Audit (RSA) for MS 25 in Tishomingo County from the Itawamba/Tishomingo County Line to the Tennessee State Line. Responsibilities include a safety assessment and analysis, a field assessment, development of preliminary findings and prioritization of the recommendations.

◆ **MS 25 Road Safety Audit Implementation – Tishomingo County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for the improvements to MS 25. Responsibilities include Phase B roadway design, drainage design, traffic control, traffic signals, permanent striping and permanent signing.

◆ **MS 25 Road Safety Audit Implementation – Tishomingo County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for the improvements to MS 25. Responsibilities include Phase A roadway design, drainage design, traffic control, traffic signals, permanent striping and permanent signing.

◆ **MS 27 Roundabout Construction – Copiah County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for a rural roundabout at the intersection of MS 27 and Lee Avenue/Old Highway 27 No. 1. Design of the roundabout is in accordance with NCHRP Report 672 and improves traffic flow through a dangerous intersection. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing. This project won the ACEC of Mississippi's Grand Award for 2018.

◆ **Interstate 59 Bridge Widening – Clarke County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) design build project for the widening of six bridges. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.

Years of Experience

Total: 10

Current Firm: 8

Education

Bachelor of Civil Engineering, University of South Alabama, Mobile, 2009

Registrations

Registered Professional Engineer in MS #26030
LA #43550

PACP (Pipeline Assessment Certification Program)

MDOT LPA Process Training & Certification

Affiliations

American Society of Civil Engineers

Society of Women Engineers

Cara Wagner provides civil engineering services for water and wastewater design, structural design, and civil site design. She is proficient in ArcGIS, AutoCAD, StaadPro and Microsoft Office.

Related Project Experience

♦ **Howard Avenue Improvements: Biloxi, MS – Biloxi, MS**

Engineering design and construction phase services for the improvements to Howard Avenue between Nixon Street and Reynoir Street. The improvements entail widening Howard Avenue to accommodate two-way vehicular traffic, parking, and new sidewalks. Also included are cold-milling and overlaying of the existing pavement between Lameuse Street and Dr. Martin Luther King Jr. Boulevard, as well as the reconfiguration of the intersection at Dr. Martin Luther King Jr. Boulevard and Howard Avenue to accommodate westward traffic.

♦ **Gulfport Citywide Paving – Gulfport, MS**

Provided design and construction services for Phase 6 of the City of Gulfport's Citywide Paving Project 2012. This phase included assessment and design of both ADA improvements and asphalt overlay for over 6.5 miles of existing streets scattered throughout the city.

♦ **Courthouse Road CE&I – City of Gulfport, MS**

Project Engineer for a Local Public Agency (LPA) project with the City of Gulfport for the reconstruction of approximately 1 mile of Courthouse Road from U.S. 90 to Pass Road. Responsibilities include responding to RFIs, public meetings and plan modifications. *Construction Cost : \$5 million*

♦ **Drainage and Recreational Improvements to Coffee Creek – City of Gulfport, MS**

Project Engineer for the design of drainage improvements to alleviate property damage caused by flooding and recreational enhancements to Coffee Creek. Responsibilities included hydrologic and hydraulic analysis of Coffee Creek using modeling software, drainage design, preparation of construction plans and specifications, and bidding. *Construction Cost: \$1 million.*

♦ **"Restore Biloxi" Infrastructure Repair Program - City of Biloxi, MS**

Project Engineer for the repair program for the replacement of existing water, sewer and storm drainage utilities damaged during Hurricane Katrina. Responsibilities included submittal reviews, water and sewer design, drainage design and traffic control design. *Construction Cost: \$9.2 million*

♦ **Old US 90 Fishing Pier and Back Bay Fishing Piers – City of Biloxi, MS**

Professional services in connection with the coordination for removal and disposal of all debris associated with the existing fishing pier and subsequent design and construction of a new fishing pier. Pickering's services included: Project Management, FEMA Coordination, Design Survey, Bridge Design, Lighting, and Construction Engineering. *Construction Cost: \$9 million*

Years of Experience

Total: 3

Current Firm: 2

Education

Bachelor of Civil
Engineering, Mississippi
State University, 2018

Registrations

Registered Engineer
Intern MS #29501

Affiliations

Engineers Without
Borders (EWB)

Maggie Smith is a Civil Engineer Intern involved in construction review and design of various projects that include storm drainage, erosion prevention and sediment control, utility design, and roadway design. Her responsibilities include the design of new sites and improvements to existing sites while using the proper design guidelines to meet the needs of clients. She is proficient in ArcGIS, AutoCAD, Excel, and Microsoft Office.

Related Project Experience

♦ **Howard Avenue Improvements – Biloxi, MS**

Civil Engineer Intern. Pickering was selected to provide engineering design and construction phase services for the improvements to Howard Avenue between Nixon Street and Reynoir Street. The improvements entail widening Howard Avenue to accommodate two-way vehicular traffic, parking, and new sidewalks. Also included are cold-milling and overlaying of the existing pavement between Lameuse Street and Dr. Martin Luther King Jr. Boulevard, as well as the reconfiguration of the intersection at Dr. Martin Luther King Jr. Boulevard and Howard Avenue to accommodate westward traffic. *Construction Cost: \$2 million*

♦ **Dedeaux Road Phase I CE&I – Gulfport, MS**

Civil Engineer Intern responsible for construction phase services such as construction oversight, verification of quantities, and preparation of progress pay items. Pickering provided design services for the widening of Dedeaux Road from Three Rivers Road to MS 605. *Construction Cost: \$5 million*

♦ **Reynoir Street Sidewalks – Biloxi, MS**

Civil Engineer Intern assisting in civil design for a sidewalk project in downtown Biloxi, MS. Project included conceptual planning, survey and coordination with Mississippi Department of Transportation (MDOT) to design ADA compliant sidewalks and prepare construction documents.

♦ **Benefield Area Sewer Rehabilitation – Gulfport, MS**

Civil Engineer Intern for project including the removal and replacement and rehabilitation of the existing sanitary sewer system. Pickering assisted Gulfport with identifying sources of I & I, and developed rehabilitation improvements. Responsibilities included project management, coordinating CCTV efforts on existing lines, smoke testing, design assistance, quality assurance and control, and coordinating construction bid. *Estimated Construction Cost: \$1.18 million*

♦ **Nugent Sewer – City of Gulfport, MS**

Civil Engineer Intern for project including the installation of a new sewer collection system in an unserved area. Improvements included connection to an existing lift station, 3,700 linear feet of gravity main, and 13 manholes. Responsibilities include project management, design assistance, quality assurance and control, bid coordination, and facilitating construction contract. *Construction Cost: \$425,000*

Years of Experience

Total: 26

Current Firm: 17

Education

Texas A & M
University - College
Station, Texas
Master of Science
in Civil Engineering,
1996

Mississippi State
University -
Bachelor of Science
in Civil Engineering,
1993 (Cum Laude)

Registrations

Registered
Professional
Engineer
MS #15949

Affiliations

ASCE, ITE, MES

Fred Tyner is a Transportation Engineer in Pickering's Mississippi Operations. He is actively involved in all phases of roadway projects with a specialization in interchange and intersection design and erosion control. His responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.

Related Project Experience

♦ **MS 25 Road Safety Audit Implementation – Tishomingo County, MS**
Roadway plans for a Mississippi Department of Transportation (MDOT) project for the improvements to MS 25. Responsibilities include Phase B roadway design, drainage design, traffic control, traffic signals, permanent striping and permanent signing.

♦ **East Metropolitan Corridor – Rankin County, MS**
Roadway plans for a Local Public Agency (LPA) project with the East Metropolitan Corridor Commission for 5.0 miles of a four-lane roadway on a new alignment from Interstate 20 to MS 25. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping, permanent signing and traffic signal plans.

♦ **Bulldog Way – Mississippi State University, MS**
Roadway plans for a Local Public Agency (LPA) project with Mississippi State University for a two-lane roadway on new alignment from Blackjack Road to Lee Boulevard. The project is being funded by a \$7 million Transportation Investment Generating Economic Recovery (TIGER) grant approved by the U.S. Department of Transportation. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping, permanent signing and traffic signal plans.

♦ **McIngvale Road Realignment – Desoto County, MS**
Roadway plans for a Local Public Agency (LPA) project with the City of Hernando for the realignment of McIngvale Road from Byhalia Road to Green T Road south of the Interstate 269 underpass. This new route is approximately 1.4 miles in length and will be a five-lane boulevard section with curb and gutter. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping, permanent signing and traffic signal plans.

♦ **Welch Farms Road – Madison County, MS**
Roadway plans for a Local Public Agency (LPA) project with the City of Madison for an extension of Welch Farms Road from SR 463 to

Madison Avenue. This new route will be a three-lane boulevard section with curb and gutter. The project includes a roundabout at the intersection of Poore's Pass which serves as the main entrance to Rosa Scott Middle School. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.

◆ **Grand Gulf Access Road – Claiborne County, MS**

Roadway plans for a Local Public Agency (LPA) project with the Claiborne County Board of Supervisors for 4.9 miles of a four and five-lane roadway on a new alignment from US 61 to the Grand Gulf Nuclear Station. Responsibilities include roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.

◆ **MS 477 from US 80 to MS 25 – Rankin County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for the paving of MS 477. Responsibilities include Phase B roadway design, permanent striping, permanent signing and traffic signal plans.

◆ **Interstate 20 Norrell Road Interchange Modifications – Hinds County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for the modifications of the interchange of Interstate 20 and Norrell Road. Responsibilities include roadway design, drainage design, traffic control, permanent striping and permanent signing.

◆ **Interstate 20 Reconstruction – Warren County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for the reconstruction of Interstate 20 from the Mississippi River through Vicksburg. Responsibilities include Phase A roadway design, drainage design, traffic control, permanent striping and permanent signing.

◆ **MS 18 Bridge Replacements – Copiah County, MS**

Roadway plans for a Mississippi Department of Transportation (MDOT) project for the replacement of four bridges between the Claiborne County line and the Hinds County line. Responsibilities include Phase B roadway design, drainage design, erosion control, traffic control, permanent striping and permanent signing.



Firm Experience



Traffic Engineering Projects

<i>Date</i>	<i>Title</i>	<i>Client</i>	<i>Location</i>
12/5/2012	Traffic Impact Study: Commercial Development	Racetrac Petroleum, Inc.	Richland, MS
1/30/2014	Traffic Analysis Letter: The District at Eastover	The District Land Development Company	Jackson, MS
2/24/2014	Traffic Analysis for Environmental Study: Star Landing Road Corridor	Desoto County	Desoto County, MS
2/26/2014	Traffic Analysis for Environmental Study: Landon Road	City of Gulfport	Gulfport, MS
5/2/2014	Traffic Study: Shelby Farms Expansion	Shelby Farms Park Conservancy	Memphis, TN
8/12/2014	Traffic Study: Koch Foods Expansion	Koch Foods	Morton, MS
11/25/2014	Safety Assessment and Analysis: Mississippi 25	Mississippi Department of Transportation (MDOT)	Tishomingo County, MS
5/8/2015	Intersection Analysis: New Allen Road and Northpointe Drive	Nike	Memphis, TN
12/7/2015	Traffic Impact Analysis: Fondren Multi-Use Development	Desai Hotel Group/Whitney Place	Jackson, MS
1/12/2016	Traffic Study: FedEx Ground Distribution Center	42 Real Estate, LLC	Pearl, MS
6/1/2016	Traffic Study Surface Street System Circulation: City of Diamondhead	City of Diamondhead	Diamondhead, MS
10/28/2016	Traffic Study: Terry High School Sports Complex Improvements	Terry High School	Terry, MS
12/13/2016	Traffic Study: Gateway Global Logistics Center	Panattoni	Marshall County, MS / Fayette County, TN
1/13/2017	Traffic Study: Aggie Road Improvements	Arkansas State University	Jonesboro, AR
3/5/2018	Traffic Study: McIngvale Road	City of Hernando	Hernando, MS
3/30/2018	Traffic Study: Downtown Meridian Master Plan	City of Meridian	Meridian, MS
8/8/2018	Traffic Impact Analysis: Telephone Road Realignment	City of Pascagoula	Pascagoula, MS
12/12/2018	Traffic Study: East Metro Corridor	East Metro Corridor Commission	Brandon, MS
12/17/2018	Traffic Study: South Loop Extension	City of West Memphis	West Memphis, AR
5/20/2019	Traffic Study: Tupelo Apartment Complex	Fusion Hospitality	Tupelo, MS
7/10/2019	Intersection Analysis: Old Whitfield and Pearson Road (MS 468)	City of Pearl	Pearl, MS
8/1/2019	Traffic Study: Bulldog Way	Mississippi State University	Starkville, MS
9/4/2019	Intersection Analysis: Childre Road and Riverwind Drive	City of Pearl	Pearl, MS
11/1/2019	Traffic Analysis: DHL Warehouse	DHL	Memphis, TN
1/8/2020	Corridor Study: South Caraway Road	City of Jonesboro	Jonesboro, AR

<i>Date</i>	<i>Title</i>	<i>Client</i>	<i>Location</i>
3/10/2020	Traffic Study and Roundabout Feasibility Study: Klondyke Road and Commission Road	City of Long Beach	Long Beach, MS
3/18/2020	Intersection Analysis and Develop Signal Timing: Broker Rd & University Ave (MS 6)	Noas Design Group	Oxford, MS
4/10/2020	Traffic Impact Study: Warehouse Facility	Scannell	Horn Lake, MS
4/13/2020	Signal Timing Analysis: Bartlett Boulevard and Ivanhoe Road	City of Bartlett	Bartlett, TN
4/29/2020	Traffic Analysis: Reunion Parkway	County of Madison	Madison, MS



MATT WARKENTIN, PE, PTOE

Pickering Associate Principal/Transportation Engineer

With 16 years of experience and an Associate Principal of our firm, Matt takes great pride in the philosophy of Pickering's founder...***SERVICE AND GOOD WORK.***

He has sixteen years of experience in transportation design with a specialization in traffic control and modeling.

Matt was the lead transportation engineer for each of the traffic engineering projects listed above and will lead the efforts required by your traffic studies project(s).



Relevant Experience

STS offers DOT's an extensive level of relevant and recent experience on similar projects. As you evaluate our firm, you will see that while many firms are somewhat involved in data collection, **STS is totally committed to traffic data collection.** Southern Traffic Services, Inc. has successfully completed large-scale data collection contracts in 15 states and is currently under contract with the states of **Florida, Georgia, Mississippi, Ohio, and Alabama.** We have provided professional and technical services on numerous projects in many southeastern states, including the following:

State of Mississippi Department of Transportation, Statewide Turning Movement, Classification and Portable Weight-in-Motion

STS is the sole consultant and provides approximately 600 48-hour classification studies, and 30 Portable Weigh-In-Motion (W.I.M.) sites per year. This is considered a “turn-key” contract. STS is responsible for all equipment, materials, labor, and technical expertise necessary to safely conduct required traffic studies and submit all contract deliverables to the Department in the proper formats.



Contact: Ms. Susannah Seal, (601) 359-7066, sseal@mdot.ms.gov





State of Georgia Department of Transportation, Traffic Data Collection

STS is the sole consultant and is responsible for performing special studies as directed by the GDOT Project Manager. These studies may include multiple volume studies, speed studies, classification studies, WIM studies, and turning movement counts.

STS must collect and submit accurate data within 15 working days



of receiving each work order. This contract also covers their annual count program which includes 5000 bi-directional volume counts and 2200 classification counts per year. This is considered a “turn-key” contract. We are responsible for all equipment, materials, labor, and technical expertise necessary to safely conduct required traffic studies and submit all contract deliverables to the TDC Branch Chief in the proper format. **Contact: Scott Susten, TDC Branch Chief, (770) 986-1442, susten@dot.ga.gov**

State of Florida Department of Transportation, District I, District-wide Transportation Statistics Contracts

STS is the prime consultant and conducts Classification studies and average daily traffic counts (ADT), including PTMS locations. STS also performs turning movement counts and inspections of the District’s permanent traffic monitoring sites (PTMS). We are responsible for collecting classification data at approximately 744 sites annually. We also collect volume and speed data at approximately 70 sites annually. This is considered a “turn-key” contract. STS is responsible for all equipment, materials, labor, and technical expertise necessary to safely conduct required traffic studies and submit all contract deliverables to the GIS Traffic Count Analyst in the proper format.



Contact: Ms. Lorraine Edwards, GIS Traffic Count Analyst, (863) 519-2352, Lorraine.Edwards@dot.state.fl.us



State of Florida Department of Transportation, District VII District-wide Statistics Program

STS is the prime consultant on this contract and conducts approximately 480 48-hour classification studies and 497 bi-directional volume counts per year within the District. We also perform inspections, maintenance, and repair of the District's permanent traffic monitoring sites (PTMS). This is considered a "turn-key" contract. We are responsible for all equipment, materials, labor and technical expertise necessary to safely conduct required traffic studies and submit to the Traffic Counts Coordinator in the proper format.

Contact: *Ben Rodgers, Traffic Counts Coordinator, (813) 975-6413, Ben.Rodgers@dot.state.fl.us*



State of Louisiana Department of Transportation and Development Traffic Data Collection/Monitoring Statewide

STS is the sole contractor on this contract. We collect approximately 4800 48-hour blanket volume counts per year. This contract also covers the collection of turning movement counts and classification counts as needed. This is considered a "turn-key" contract.

STS is responsible for all equipment, materials, labor, and technical expertise necessary to safely conduct required traffic studies and submit all contract deliverables to the Traffic Counts Coordinator in the proper format.

Contact: *Jason Chapman, (225) 242-4578, Jason.Chapman@la.gov*





University of Alabama Department of Civil, Construction and Environmental Engineering – Alabama Traffic Data Collection and Analysis

STS is the sole contractor responsible for collecting approximately 1000 48-hour classification counts and 2250 48-hour volume counts. This contract will be extended for two additional years by ALDOT. This is considered a “turn-key” contract.



We are responsible for all equipment, materials, labor, and technical expertise necessary to safely conduct required traffic studies and submit all contract deliverables to the Associate Professor in the proper format. **Contact: Steven L. Jones, Jr., PhD, Associate Professor, Department of Civil, Construction and Environmental Engineering, (205) 348-9925, sjones@eng.ua.edu**

Ohio Department of Transportation, Statewide Traffic Counts,

STS is the sole contractor responsible for collecting, formatting, and submitting 24-hour and 48-hour vehicle classification counts, 24-hour and 48-hour bi-directional volume counts, and manual turning movement counts. This is the first “turn-key” contract year and quantities of each type of count are in the collection process.



We are responsible for all equipment, materials, labor, and technical expertise necessary to safely conduct required traffic studies and submit all contract deliverables to the Manager of the Traffic Monitoring Section in the proper format.

Contact: Dave Gardner, (614)752-5740, Dave.Gardner@dot.state.oh.us



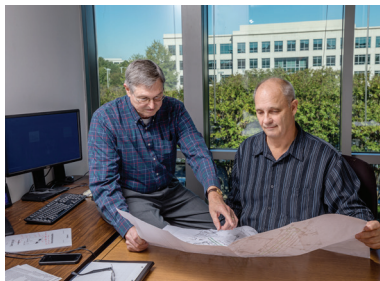
Firm Capability



Pickering was founded in 1946 with a simple philosophy of Service and Good Work. Over 70 years later, that philosophy remains the cornerstone of our business model. We proudly provide in-house, full-service engineering and architectural services to make what you see – and even what you don't – work together seamlessly.

We have nearly 120 professionals located throughout seven (7) offices. Headquartered in Memphis, Tennessee, we also have locations throughout Mississippi (Hernando, Flowood, Pearl, and Biloxi) and in Jonesboro and Little Rock, Arkansas.

Each office boasts a diverse group of professionals who provide extensive expertise and quality services in everything they deliver. Pickering is large enough to provide in-depth, in-house services to our clients, yet small enough to accommodate them with very personalized attention. We have the capacity to provide the following services:



Facility Design

- Architecture
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Plumbing/Piping Design
- Fire Protection Engineering
- Renovations
- Facility Condition Evaluation

Civil Engineering

- Site Selection
- Land Use Planning
- Code Reviews
- Rezoning
- Due Diligence Analysis & Reporting
- Master/Site Planning
- Grading & Management
- Sanitary Sewer
- Utilities Engineering & Analysis
- Parking & Circulation Design
- Hydrology/Hydraulics
- CLOMR/LOMR
- Construction Phase Services

Surveying

- ALTA/NSPS Land Title Surveys
- Boundary Surveys
- Route Surveys
- Topographical Surveys/Mapping
- Geographic Information Systems (GIS)

Transportation

- Traffic Studies
- Roadway Design
- Bridge Design
- Airfield Design
- Railroad Design
- Signal Design
- Construction Engineering & Inspection (CEI)

Natural/Water Resources

- National Environmental Policy Act (NEPA)
- Uncontrolled Site Assessments
- Indoor Air Quality Assessments
- Noise Studies
- Brownfields Planning
- Wetlands Delineation & Permitting
- Wastewater/Water Supply & Treatment
- Major Source Permitting & Compliance

Taking Pride in Ownership

Pickering is an employee owned firm, promoting motivation, loyalty and low turnover. Because every member of our firm has a stake in the company's performance, each project is completed with extra attention to details, strict adherence to schedules and the ability to work within budgets.

Pickering has identified future company leaders and has an Associate Principal Ownership Program. This program not only recognizes employees who exhibit exceptional talents, dedication and work ethic, but also secures Pickering's place in the future. The Associate Principal Ownership Program will give the associate principal owners an opportunity to learn about leading our firm including strategic planning, resource management, project management, mentoring and addressing issues facing tomorrow's leaders. Our pride of ownership gives Pickering the ability to provide superior client service with the best professional skills available.

Making Your Vision Reality

Pickering is dedicated to maintaining the respect of our clients, employees, peers and other individuals in the community. We consistently strive to exceed their expectations, as well as balance their interests in an atmosphere of honesty, integrity and professionalism.

We have built a strong reputation as a leader in engineering and architectural services. We take pride in our ability to find innovative solutions for all projects.

Assuring Quality Work

Our quality control process is multi-phased to ensure technical, interdisciplinary and contractual quality and completeness. Our quality assurance is dynamic in nature where quality improvement is a continuous process. Each senior designer on the project team and the applicable discipline manager works hand in hand with the technicians to ensure all technical aspects are correct and complete to our high technical standards.

Project Managers perform a continuous review throughout the design process to assure that the design is complete and meets all contract requirements. They further assure that all corrections noted from the other reviews have been made and all client-provided information has been incorporated into the design documents. Thanks to the ability of our Project Managers and designers, we are able to maintain a high standard of quality for all design projects.

To control costs, the team applies basic management techniques throughout the design process. Key elements of this approach include:

1. Early reconciliation between project scope and budget
2. Development of cost estimates at the concept stage and a thorough revision by each discipline designer as the work progresses through each stage
3. Analyzing and selecting project components according to appropriateness and cost-effectiveness
4. Continuous monitoring of detail development in the working drawing stage to balance functional and aesthetic considerations against cost
5. Extensive experience in cost estimating, life-cycle cost analyses, value engineering review, alternative analyses, cost benefit analyses, cost reduction studies and construction cost control

Firm Location & Proximity



MISSISSIPPI

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Hernando, MS 38632
Phone 662.393.3348 FAX 662.393.0714

TENNESSEE

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References

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Andrew “FoFo” Gillich, Mayor
City of Biloxi
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mayor@biloxi.ms.us

Johnny Groue, Deputy Director
Jackson County Utility Authority
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Vancleave, MS 39565
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jgroue@jcua-ms.us





Large-Scale Data Collection Experience

Southern Traffic Services, Inc. has successfully completed large-scale data collection contracts in 15 states, and is currently under contract with the states of:

- Mississippi
- Florida
- Georgia
- Louisiana
- Ohio
- Alabama

STS is responsible for collecting, processing, reporting, and uploading all traffic data in relation to these contracts.

For the past twenty-five years, STS has provided professional traffic data collection services, and installation/maintenance of permanent traffic monitoring sites for Departments of Transportation.

Related Project Experience

detailed in the following pages:

- **State of Mississippi Department of Transportation, Statewide Turning Movement, Classification and Portable Weigh-in-Motion**
- **State of Georgia Department of Transportation, Traffic Data Collection**
- **State of Florida Department of Transportation, District I, District-wide Transportation Statistics Contracts**
- **State of Florida Department of Transportation, District VII, District-wide Statistics Program**
- **State of Louisiana Department of Transportation and Development – Traffic Data Collection/Monitoring Statewide**
- **University of Alabama Traffic Data Collection and Analysis**
- **Ohio Department of Transportation Statewide Traffic Counts**



Staff and Resources

STS has sufficient staff and the financial capability to successfully complete statewide traffic data collection projects. STS has in-place a well-rounded team of professionals, with extensive experience on similar projects, ready to serve the DOT's needs. We are actively involved in collecting and reporting transportation statistics data for multiple public agencies.

Adequate and capable staffing is one of the most critical factors necessary to perform traffic data collection and analysis. STS is a strong, stable company with a proven performance record of reliable staffing and low personnel turnover. We have a qualified staff, unmatched in experience and training specific to performing traffic studies.

STS has over fifty employees. The majority of our key field personnel are engineering technicians with experience in electronics and traffic data collection. Our highly qualified office staff, with years of experience in traffic data analysis and quality control, takes pride in providing our clients with accurate data in a timely manner.

Traffic Data Collection Resources

- 2900 portable event recorders
- 65 DB-400 handheld digital data collectors
- 8 portable weigh-in-motion devices
- 47 classifiers with inputs for piezo sensors and inductive loops
- 2 portable Wavetronics systems
- 85 ADR 3000's
- 20 STARS (Southern Traffic's Automated Recording System) for turning movement counts or manual classification and volume.
- 2 RTMS units
- 20 Infrared License Plate Reader Cameras
- 8 Digital Cameras/Video Recorders

Our ability to mobilize these assets is provided by our fleet of 42 trucks. All of these vehicles are owned and insured by STS. Clients of STS can be assured of our capability to mobilize and perform on demand. All STS vehicles are clearly marked with our company name and toll-free phone number. Our professional fleet is also equipped with roof-mounted beacons, strobe lights on all corners, and Fleetmatics GPS Vehicle Tracking Systems.

Service and Good Work,
Our Foundation, Our Future.