

Proposal prepared for  
Louisiana Department of Transportation and Development

# IDIQ CONTRACT FOR RAILROAD SAFETY STATEWIDE

CONTRACT NO. 4400033940 | January 13, 2026



moffatt & nichol





Department of Transportation and Development  
Attn.: Selection Committee  
Consultant Contracts Services Administrator  
1201 Capitol Access Road, Room 405-E  
Baton Rouge, LA 70802-4438

**Re: IDIQ CONTRACT FOR STATEWIDE RAILROAD SAFETY – CONTRACT NO. 4400033940**

Moffatt & Nichol (M&N) is proud to offer the Louisiana Department of Transportation and Development (LADOTD) a top-tier team that leads the nation in highway/rail safety through their industry contacts and continued development as members of multiple national committees. This team resides in Baton Rouge with access to unparalleled resources to support the *Statewide Railroad Safety IDIQ* contract. This IDIQ, being the first of its kind for LADOTD, allows M&N to continue effective support for the implementation of railroad safety standards in the State of Louisiana. We are focused on the Department's complete satisfaction to deliver increasing value with sustained success.

Our sheer level of expertise is based on the experience M&N has developed through the evaluation of literally tens of thousands of highway-rail crossings and leading hundreds of public workshops and hearings in the development of implementable rail safety crossing improvements. LADOTD can rely on M&N's national expertise with Class I Railroads and in all but a few States of the US, specifically in the area of rail crossing safety, but with local, immediate attention.

**M&N is eager to fully deliver our railroad crossing safety services utilizing unique experience that sets us apart, as listed below:**

- ✓ We currently hold directly equivalent IDIQ contracts with TN, VA, WI, NE, and NC State DOTs that have produced over 50 task orders.
- ✓ We have an intimate understanding of the LADOTD Rail Infrastructure through our nearly 15 years leading the first of its kind RIMS Contract, which has expanded to additional states and even multiple rail entities utilizing this technology.
- ✓ We have an industry-leading understanding of the priorities of rail crossing safety improvements, data, and analytics through our rail safety crossing work in over 40 US States, bringing a deep bench of experience from across the US.
- ✓ M&N has direct engineering design GEC contracts and project experience with all Class I Railroads and are fluent in their Rail Safety Crossing Programs.
- ✓ We have become many of the Class I Railroads trusted advisors in rail safety crossing engineering and know how to navigate their often highly demanding needs.
- ✓ We have a deep level of expertise in capital improvement fund allocation determined from physical assessments.

Railroad safety is work that our team gets up and looks forward to every day. This is what they do! We do not intend to be all things to all clients. Rather, we are satisfied in being regarded as one of the top rail crossing safety engineering firms in the marketplace today. The result is a team dedicated to getting the job done and right the first time in meeting our clients' needs.

We enjoy what we do and are very excited about the opportunity to work with LADOTD on your rail-related programs. We have included our long-term teaming partner Gresham Smith to provide full turn-key solutions to resolving rail crossing safety conflicts.

We are grateful for this opportunity, and we value our role as a trusted consultant and advisor. M&N's team is ready to deliver innovative, future-focused solutions to serve LADOTD for years to come as we build upon our nearly 15 years of involvement in the LADOTD Rail Safety Crossing Program. Thank you for considering our qualifications and experience. We look forward to continuing our partnership.

Sincerely,

**MOFFATT & NICHOL**

Jonathan Hird, PE

*Vice President / Business Unit Leader*



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# IDIQ Contract for Statewide Railroad Safety

Contract 4400033940

Sections 1–11





# DOTD FORM: 24-102

(Revised August 11, 2025)

## PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ CONTRACT FOR STATEWIDE RAILROAD SAFETY STATEWIDE
2. Contract Number(s) as shown in the advertisement	CONTRACT NO. 4400033940
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name ( <b>name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20</b> )	Moffatt & Nichol, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0003104
6. Prime consultant mailing address	301 Main Street, Suite 800 Baton Rouge, LA 70801
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	301 Main Street, Suite 800 Baton Rouge, LA 70801
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Jonathan Turner, PE (919) 645-0676 jturner@moffattnichol.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Jonathan Hird, PE, CEng, FICE (225) 610-1930 jhird@moffattnichol.com



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

*Jonathan Hird*

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

1/13/2026

Date:

**Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.**

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

Firm(s): Firm(s)' %:  
N/A - No DBE Goal



moffatt & nichol



# IDIQ Contract for Statewide Railroad Safety

Contract 4400033940

Sections 12–16



**12. Discipline Table:**



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

The **only** disciplines to be used are listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). **Remove rows as needed.**

<b>Discipline(s)</b>	<b>% of Overall Contract</b>	<b>Moffatt &amp; Nichol</b>	<b>Gresham Smith</b>	<b>Each Discipline must total to 100%</b>
Appraiser	1	90	10	100%
Bridge	2	90	10	100%
CE&I/OV	10	80	20	100%
CPM	3	80	20	100%
Data Collection	10	100	0	100%
Environmental	3	80	20	100%
Geotech	5	50	50	100%
ITS	3	80	20	100%
Planning	40	80	20	100%
Right-of-Way	5	50	50	100%
Road	8	10	90	100%
Survey	5	50	50	100%
Traffic	5	50	50	100%
Percent of Contract	100%	70.7%	29.3%	100%

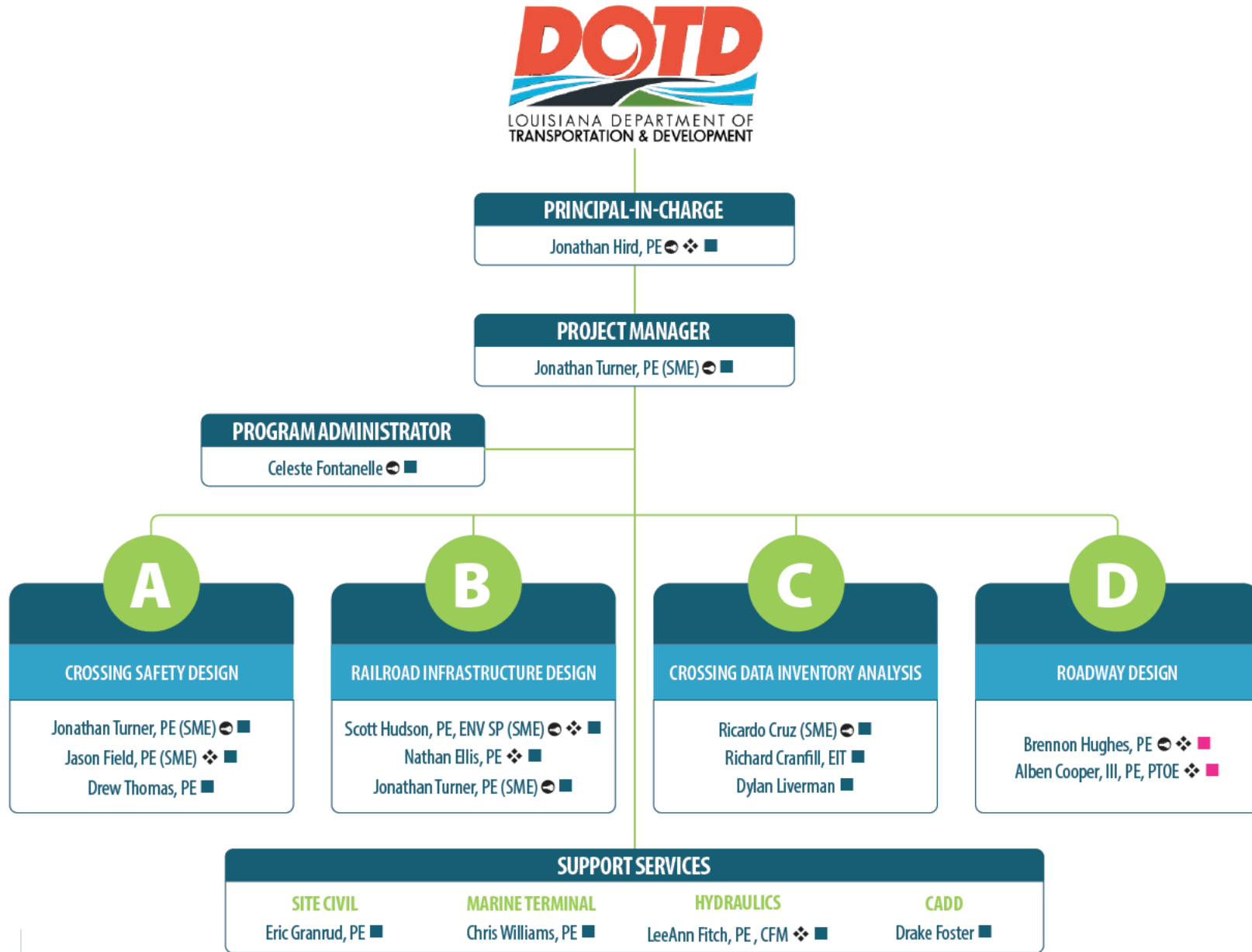
**13. Team Size:**

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (must specify)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: <https://bit.ly/DOTDJobClassifications>

Firm name	DOTD Job Classification	Number of personnel committed to this contract *	Total number of personnel available in this DOTD Job Classification (if needed)
 <b>moffatt &amp; nichol</b>	Principal	1	1
	Administrative	1	3
	CADD Technician	2	6
	Engineer	4	10
	Engineer Intern	2	6
	Senior Technician	1	4
	Supervisor - Eng	2	4
 <b>Gresham Smith</b>	Clerical	1	1
	Engineer	2	6
	Engineer Intern	2	6
	Principal	1	1
	Senior Technician	1	2
	Supervisor - Eng	2	4

\*For evaluation purposes only, and as referenced in the Scope of Services on page 2 of IDIQ advertisements only, the consultant shall assume the number of concurrently active task orders specified in the advertisement and shall identify the number of **committed** personnel accordingly.

14. Organizational Chart:




Key Team Lead ●  
MPR Qualifier ◆  
Moffatt & Nichol ■  
Gresham Smith ■


**15. Minimum Personnel Requirements:**


Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.


<b>MPR No.</b> Do not insert wording from ad	<b>Personnel being used to meet the MPR</b> (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	<b>Firm employed by</b>	<b>Type of license and discipline meeting MPR/ certification &amp; number</b> (Ex: PE # - Civil)	<b>State of license</b>	<b>License / certification expiration date</b>
1	Jonathan Hird, PE	<b>Moffatt &amp; Nichol</b>	PE.0032299 - Civil	LA	09/30/2026
2	Jonathan Hird, PE	<b>Moffatt &amp; Nichol</b>	PE.0032299 - Civil	LA	09/30/2026
2	Eric Granrud, PE	<b>Moffatt &amp; Nichol</b>	PE.0040927 - Civil	LA	03/31/2027
2	Chris Williams, PE	<b>Moffatt &amp; Nichol</b>	PE.0028579 - Civil	LA	09/30/2027
2	LeeAnne Fitch, PE, CFM	<b>Moffatt &amp; Nichol</b>	PE.0044323 - Civil	LA	09/23/2026
3	Jason Field, PE	<b>Moffatt &amp; Nichol</b>	PE.0036691 - Civil	LA	03/31/2026
4	Alben Cooper, III, PE, PTOE	<b>Gresham Smith</b>	PE.0036291 - Civil PTOE 3206	Louisiana International	09/30/2027 05/02/2027
5	Scott Hudson, PE, ENV SP	<b>Moffatt &amp; Nichol</b>	PE.0042418 - Civil	LA	09/30/2026
5	Nathan Ellis, PE	<b>Moffatt &amp; Nichol</b>	PE.0043929 - Civil	LA	03/31/2026


**16. Staff Experience:**


Firm employed by <b>Moffatt &amp; Nichol</b>				
	<b>Name</b> <b>Jonathan Hird, PE</b>	Years of relevant experience with this employer		20
	<b>Title</b> <b>Vice President / Business Unit Leader</b>	Years of relevant experience with other employer(s)		8
Degree(s) / Years / Specialization		MS / 2001 / Civil and Environmental Engineering BS / 1993 / Environmental Science		
Active registration number / state / expiration date		32299 / Louisiana / 09/30/2026		
Year registered		2006	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		<b>Principal-in-Charge</b>   Meets MPR 1 & 2 Jonathan will serve as the Principal-In-Charge from the local Moffatt & Nichol office in Baton Rouge, LA, and will be responsible for over-all project performance, QA/QC, and contracting.		
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/11-02/15		<b>LADOTD RSIS Railroad Inventory Upgrade, Baton Rouge, LA. Principal-in-Charge</b> leading the effort to provide Web-based crossing safety inventory service (RIMS) for LADOTD. Provided oversight for a comprehensive evaluation of LADOTD RSIS data and FRA inventory data for Louisiana railroads and provided suggestions to modify state RSIS data to comply with the latest FRA requirements. Facilitated development of course of action for resolution of discrepancies and implementation of changes, coordinated with Louisiana’s Class I and Short line Railroads to promote accuracy in inventory.		
07/18-06/26		<b>LADOTD RSIS Railroad Inventory Update &amp; Maintenance Baton Rouge, LA. Principal-in-Charge</b> of the successfully recompeted continuation of the RIMS contract for LADOTD. Assisted in the ongoing evaluation of LA DOTD’s highway–rail safety prioritization process and provided recommendations to improve the existing models and update current rating factors. Throughout the contract, provided primary Point of Contact for LA DOTD and liaised with FRA on areas and improve RSIA compliance, Louisiana’s inventory data accuracy, and interaction between FRA, LADOTD, and railroads. Provided a final report including project and recommendations on how LADOTD, FRA, and the railroads can best maintain consistent records for highway–rail crossings contract end. Assisted DOTD with their expertise and basic reports for biannual Railroad Safety meetings with FHA, FRA, and other partners to promote, support, and plan for ongoing Railroad Safety Program.		
08/20-04/23		<b>LADOTD Louisiana Waterways State Transportation Plan Statewide, LA. Principal-in-Charge.</b> The plan was developed from the Systems Analysis of the economic impacts of waterborne commerce to the State of Louisiana. The plan was structured to dovetail into the Statewide Transportation Plan. Co-ordinated with Port Economic Development Officials in the development of rail improvement projects to increase efficiencies in inter-modal exchange and modal bottlenecks, developed first iteration BCAs, evaluated both individually and as a portfolio of projects implemented together.		
08/24-03/26		<b>Northeast Louisiana Port Commission Comprehensive Master Plan, Tensas Parish, LA. Principal-in-Charge</b> providing technical oversight for the port / freight economics that identified volumetric multi-modal freight pathways and identify projects (marine structural, upland port development, transportation network improvement etc., that would increase project throughput for the newly created multi-modal district. Coordinated with Northeast Louisiana Railroad Development District to develop Least Cost Market Analyses and BCAs for the extension of the Delta Southern Railroad short-line rail re-installation as an operational alternative to mitigate business interruption issues during shallow draft limitations during harvest export.		


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> Jonathan Turner, PE	Years of relevant experience with this employer	7
	<b>Title</b> Project Manager	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 2012 / Civil Engineering: Structural Emphasis, Clemson		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Jonathan will serve as the <b>Project Manager</b> and will be responsible for safety inspections, condition assessment, and improvement recommendations for crossings, track, and infrastructure.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
02/18-11/20	<b>New Roads, LA Corridor Evaluation, New Roads, LA. Construction inspector</b> responsible for overseeing the construction of the new signal projects, closures, and new roads that were built as part of the corridor consolidation project in New Roads, LA.		
02/20-Ongoing	<b>VDOT Traffic Operations On-Call Contract, Statewide, VA. Railroad/Highway engineer</b> responsible for providing crossing safety services to support state and federal initiatives. Work includes coordination with developing the VDOT State Action Plan (SAP) utilizing state and federal crossing safety data and updating the VDOT risk calculation. Mr. Turner led the task of developing and testing a Benefit Cost Analysis (BCA) tool utilizing both safety and economic benefits to assist VDOT in their Section 130 crossing safety selection program. Work included site visits to 25 crossings in Roanoke, VA, to use as test locations for different crossing safety improvement projects and ranking by the BCA tool.		
07/18-02/23	<b>Rail Crossing Safety On-Call Contract, Statewide, GA. Rail/highway engineer.</b> Under M&N’s three on-call contracts to provide crossing safety, rail, preemption, road design, construction inspection, and road design services, Mr. Turner works with Georgia Department of Transportation to assess the condition of existing crossings throughout the state. His assessments included the evaluation of existing conditions at railroad crossings and identification of improvements that can be made to improve crossing safety. Mr. Turner also leads discussions between railroad, state, city, and county personnel to carry out projects through the public hearing process.		
07/19-Ongoing	<b>Freight &amp; Logistics On-Call Railroad Contract, Statewide, TN. Track inspector</b> involved with assessment of the short line railroads across the state, including hi-railing the track to assess track conditions and characteristics. Inventory of the existing condition of approximately 812 miles of short line railroad statewide and providing a high-level estimate of the cost of bringing these facilities up to an appropriate state of good repair.		
01/21-Ongoing	<b>General Engineering Consultant – CSX Transportation. Rail engineer</b> responsible for providing general engineering services to support Public Projects coordination. Work includes review of preliminary and final design engineering, and construction scheduling and oversight for any infrastructure projects crossing CSXT ROW.		
07/18-Ongoing	<b>Railroad Coordination, Suffolk, VA. Railroad/highway engineer</b> assisting the City of Suffolk with railroad coordination to correct rough crossing surfaces on various rail lines throughout the city. Has provided close coordination with Class I railroads as well as short line railroads to identify deficient crossing surface issues, develop recommendations for track and road repair in the crossing areas, and construction monitoring of crossing repairs.		


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> <b>Celeste Fontenelle</b>	Years of relevant experience with this employer	20
	<b>Title</b> <b>Program Administrator</b>	Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization	MS/ 2014 / Criminal Justice Administration BA / 2000 / Sociology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Celeste will serve as <b>Program Administrator</b> for this project and provide project and budget assistant management responsibilities, resulting in at and below budget office and project spending, in addition to inspections of highway structures and quality control of structural reports and manual documentation and data input systems, as well as public outreach and stakeholder meeting organization.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
01/21-Ongoing	<b>GEC On-Call Embed Services for Two Class I Railroads, Nationwide. Project Administrator and Coordinator</b> for consecutive multi-year on-call services contracts. Provides consistent and continuous liaison support to Railroad staff, Sponsors, and stakeholders for over 200 projects ranging from utilities, sidewalks, Section 130 Program Projects, road resurfacing, passenger stations and bridge construction. Facilitates project setup, agreement development and review of requested agreement modifications, force account estimating, project milestone documentation and filing, and coordinating insurance compliance, EIC and FCI flagging and scheduling for contractors to engage on construction projects within the railroad ROW. Manages all aspects of project documentation coordination and project close-out with Railroad.		
09/23-Ongoing	<b>Quiet Zone Coordination, Class 1 Railroads, Nationwide. Program Administrator</b> for Moffatt & Nichol’s on-call contract providing quiet zone documentation and estimate coordination between the public authority and the Class I railroads. Works on the railroad’s behalf to facilitate project setup, development of agreements and contract estimates and financials coordination. Also assists with stakeholder, Railroad, and Sponsor schedule, documentation, and project close-out coordination.		
06/17-12/20	<b>Louisiana Department of Transportation &amp; Development (LADOTD) Underwater Bridge Inspections, Statewide. Project Administrator</b> for the current five-year retainer contract to perform underwater bridge inspections throughout Louisiana, in accordance with National Bridge Inspection Standards (NBIS) and American Association of State Highway and Transportation Officials (AASHTO) Manual for Bridge Element Inspection. Included are Level I, II and III inspections of underwater bridge elements, georeferenced soundings of the channel bottom, and underwater acoustic imaging (UAI) at major crossing and where dive conditions are hazardous. Responsible for pre-inspection planning, inspection reports, and overall quality standards.		
11/14-09/16	<b>Mississippi Department of Transportation (MDOT) Underwater Bridge Inspections. Project Administrator</b> for a three-year retainer contract for Level I, II, and III underwater inspections of 72 bridges in MDOT Districts 1 and 2 in accordance with FHWA BIRM, AASHTO MBE, current NBIS requirements, and the MDOT PONTIS Inspection Manual for Bridges. Responsible for project billing, inspection report preparation, and overall quality standards. Also, responsible for timely subcontractor and client communications. Team responded within 24 hours to an emergency underwater bridge inspection request. High resolution acoustic imaging techniques were utilized to determine the limits of scour.		


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> Jason L. Field, PE	Years of relevant experience with this employer	18
	<b>Title</b> Crossing Safety Program Manager	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 1994 / Civil Engineering	
Active registration number / state / expiration date		36691 / Louisiana / 03/31/2026	
Year registered		2011	Discipline Civil Engineering
Contract role(s) / brief description of responsibilities		Meets <b>MPR 3</b> Jason is our Subject Matter Expert in Crossing Safety. He can provide his comprehensive knowledge of crossing safety initiatives with the design and construction of crossing signal systems as well as preempted traffic signals.	
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).	
11/15-11/20		<b>New Roads, LA Corridor Evaluation, New Roads, LA. Railroad/Highway engineer</b> responsible for the evaluation of the railroad operations, roadway network, local traffic operations, emergency response route, crossing safety treatments, and road and lane configuration. Mr. Field negotiated with the State DOT for inclusion in the state's Crossing Safety Program and coordinated with the local road authority's board/council to facilitate the public hearing process for the corridor consolidation project.	
01/18-Ongoing		<b>Louisiana Department of Transportation and Development (LADOTD), New Orleans Rail Line, Highway-Rail Crossing Inventory Reconciliation, New Orleans, LA. Project and data manager</b> to evaluate the LS Line south of New Orleans. Determined what crossings still existed as multiple storms had wiped out regions of the rail line and all the infrastructure was not reinstalled. Old historic records from the Federal Railroad Administration (FRA), the LADOTD, and Norfolk Southern (NS) were inaccurate in depicting current conditions and locations of railroad crossings along the entire line. He had to determine which crossing data was accurate and what crossings it was associated with as many of the road names had changes as well over the years.	
01/15-Ongoing		<b>Midwest Class I and East Coast Class I Railway Crossing Consolidation Coordination, Systemwide: MO, TX, LA, MI, IL, TN, AL, GA, MI. Project manager and engineering lead</b> to perform evaluations on transportation networks surrounding primary heavy haul corridors. Lead engineering to evaluate the roadway network adjacent to hundreds of miles of rail corridor throughout the two rail systems. Evaluation to develop crossing consolidation programs for incorporation into States' crossing safety programs for implementation throughout the Class I Railroad system. Lead negotiator for discussions between the Railroad, State, City, and County and carried these projects through the public hearing process, design, and construction.	
01/10-Ongoing		<b>Grade Crossing Safety Program (Section 130) Support Services to Various State Departments of Transportation (DOT). Project manager and lead transportation engineer</b> for performance of Grade Crossing Safety Program under multiple consecutive Limited Services Agreements with the North Carolina DOT, Georgia DOT, Louisiana DOTD, Tennessee DOT, Minnesota DOT to provide development and implement rail corridor and crossing safety projects throughout each state. Support services provided include traffic separation studies, field surveys; congestion management, crossing evaluations and assessments, consolidation evaluations; signal installations; roadway realignments, new road construction; corridor project development and design and construction oversight of implementation of these projects.	


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> <b>Scott Hudson, PE, ENV SP</b>	Years of relevant experience with this employer	2
	<b>Title</b> <b>Technical Director - Rail</b>	Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization	BS / 1996 / Civil Engineering		
Active registration number / state / expiration date	42418 / LA / 09/30/2026		
Year registered	2018	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Meets <b>MPR 5</b> Scott is a Subject Matter Expert and will be the <b>Rail Technical Director</b> . He can provide planning, preliminary/final engineering, construction document preparation including cost/schedule estimating, and construction phase services for rail projects.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/23-01/26	<b>Franconia-Springfield Bypass Project, Franconia, VA. Senior railroad engineer</b> who provided civil engineering and railroad design guidance/input, and quality control review of project products for this 0.9-mile-long dedicated passenger rail bridge that allows for unimpeded crossing over the freight tracks by passenger trains. Project involved construction of a new dedicated, two-track passenger railroad bridge, new track/signal installation including accommodation of utility conduits or duct banks, and construction of railroad roadbed, drainage, and supporting structures, and new retaining walls. Provided review of/input to Preliminary Engineering phase which advanced the conceptual level design to a 15 percent design complete level for agency review.		
05/24-01/26	<b>NCR Alianza Rail-Served Site, Goldsboro, NC. Project manager</b> who provided civil engineering and railroad design guidance/input, and QC review of project products for this 0.5-mile-long industry rail spur that provides industrial track service to a new seed oil pressing plant for Alianza. Project involves construction of a new dedicated rail spur with associated roadbed, drainage, culverts, utility accommodation and relocation, coordination with Norfolk Southern and local authorities having jurisdiction, and contractor for industrial site for Alianza. Provided project management, design input and oversight of 100% design plans and construction phase support services.		
12/14-12/15	<b>Port of Houston Authority (PHA) Bayport Rail Spur Phase 1, Bayport, TX. Consultant lead track and railway engineer</b> for the PHA Bayport Container Terminal Spur Track. The project included approximately 8,000 feet of single-track, multiple industry track realignments and relocations, construction of frontage road at-grade crossings with quiet zones, utility relocations, and numerous drainage structures. Responsible for track and railway plans production, roadway plans review, and interdisciplinary reviews of construction documents submittals.		
01/21-10/23	<b>BNSF Railway, General Director Track Design, Fort Worth, TX. Executive-level leadership</b> of BNSF’s in-house track design team. Responsible for overall direction, oversight and guidance on over 100 BNSF economic development, capital expansion and divisional engineering track design projects. The level of detail for project design ranged from schematic design up to 30% plans and estimates. Most of the projects were confidential in nature; one major project, Stockton to Merced Double Track in California was a 30-mile double track 30% design that was completed and sent out to consultant proposal and bidding to carry to final design.		


Firm employed by <b>Moffatt &amp; Nichol</b>				
	<b>Name</b> Nathaniel Ellis, PE	Years of relevant experience with this employer		1
	<b>Title</b> Senior Rail Engineer	Years of relevant experience with other employer(s)		14
Degree(s) / Years / Specialization		BS / 2010 / Civil Engineering		
Active registration number / state / expiration date		43929 / LA / 03/31/2026		
Year registered		2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Meets <b>MPR 5</b> Nathan is a <b>Senior Rail Engineer</b> and will provide design services for freight rail, commuter rail, high speed rail, light rail transit, and railroad coordination		
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/22-07/23		<b>Blue Ridge Road Grade Separation, Raleigh, NC. Rail Construction Engineering &amp; Inspection (CEI) coordination consultant</b> for CEI team responsible for the construction engineering and inspection of the Blue Ridge Road grade separation design-build project at approximately MP H-77.2 for North Carolina Department of Transportation (NCDOT), Highway and Rail Division. Contractor submittal tracking and coordination with the rail corridor owner North Carolina Railroad (NCR) and the two Class I operators Norfolk Southern and CSXT. Liaison to the NCDOT Rail Division Construction project manager and to the NCDOT resident engineer. Field inspection safety coordinator for field staff and assistant resident engineers.		
09/18-04/25		<b>Mebane Grade Crossing Improvements Final Design, Mebane, NC. Project manager and grade crossing design engineer</b> for preliminary engineering and final design on 5 existing at-grade crossings for North Carolina Department of Transportation, Rail Division. Team evaluated five North Carolina Railroad/Norfolk Southern at-grade crossings (Gibson Road, Moore Street, 3rd Street, 4th Street, and 5th Street) within the City of Mebane. Design improvements to improve safety at these at-grade crossings included raised concrete medians, widened grade crossing shoulders, new pavement marking and signage, as well as pedestrian Z-gate crossings. The project also included the design of an approximate half-mile long fence through downtown to deter pedestrians from trespassing in the NCR corridor where Amtrak trains run 79mph.		
04/25-Ongoing		<b>Southwire Industry Rail Extension, Heflin, AL. Project manager</b> for final design services on a lead track and a siding extension at Southwire’s Heflin, AL manufacturing facility. Southwire’s proposed building expansion requires realignment and an extension of their lead track, as well as additional storage capacity to be gained on a siding extension. Two existing at-grade crossings are to be redesigned to accommodate employee access from a new parking lot. Maintained in-depth coordination with Norfolk Southern’s Industrial Development team.		
12/23-04/25		<b>Richmond Layover Facility 60% Design, Richmond, VA. Project manager and lead rail design engineer</b> for 60% engineering design on a 3 track Amtrak Level II layover facility at CSXT’s Fulton Yard in Richmond, VA. The project limits are from CA-82.4 to CA-83.1, and contained 3 layover tracks and 1 service platform, with room for a 4th future track and a future service platform. An Amtrak service pit with canopy was added to the scope, along with the floorplan for the Amtrak administrative building. Track design work done in accordance with CSXT and Amtrak design standards and drawn in CSXT CADD standards. Maintained a Right-of-Entry permit for additional top of rail survey, geotechnical investigation, SUE, and field work for the design team.		


Firm employed by <b>Moffatt &amp; Nichol</b>				
	<b>Name</b> <b>Ricardo Cruz</b>	Years of relevant experience with this employer		15
	<b>Title</b> <b>Director of Transportation Information Systems</b>	Years of relevant experience with other employer(s)		25
Degree(s) / Years / Specialization		BS / 1978 / Civil Engineering		
Active registration number / state / expiration date		N/A		
Year registered		N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Ric is a <b>Data Analyst</b> and will provide railroad management, project programming, and program modeling involving highway–railroad crossing inventory systems, safety, and maintenance as well as database creation and population to facilitate statewide system management.		
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/11-12/14		<b>Louisiana Department of Transportation and Development (LADOTD) RSIS Railroad Inventory Upgrade, Baton Rouge, LA. Project manager</b> leading the effort to provide Web-based crossing safety inventory service (RIMS) for LADOTD. Performed a comprehensive evaluation of LADOTD RSIS data and FRA inventory data for Louisiana railroads and provided suggestions to modify state RSIS data to comply with the latest Federal Railroad Administration (FRA) requirements, implement changes, and incorporate FRA with LADOTD data into a Web-based system. Reviewed the discrepancies between LADOTD RSIS and FRA with LADOTD project manager.		
01/24-Ongoing		<b>NCDOT RD Crossing Safety On-Call, Norlina, NC. Project manager</b> for this North Carolina Department of Transportation project.		
02/20-02/23		<b>Highway-Rail Crossing, Charleston, WV. Project manager</b> who directed the analysis of inventory data, development of the inventory plan, and the creation of the manual and training course requirements for this West Virginia Department of Transportation project.		
06/11-08/14		<b>Cost Benefit Model for Railway-Highway At-Grade Crossing Hazard Elimination, Raleigh, NC. Project manager</b> who provided program coordination, system requirements, development and project testing for this North Carolina Department of Transportation (NCDOT) project. Recommended changes to existing E&S models and developed designs, reports and plans as necessary. Models developed under this program were designed to support project prioritization, funding allocation and funding tracking based on a data-centric approach. This project reviewed the data integration, process, and technical requirements necessary to integrate multiple internal systems including SAP, SARAH, GIS, and other relative data sources and systems utilized within the department.		
02/12-09/13		<b>GIS Data and Crossing Inventory Data Collection and Analysis, Charlotte, NC. Data model manager</b> for this project with the City of Charlotte Department of Transportation (CDOT) Traffic Safety, ITS and Special Projects Section. Evaluated and updated the City’s GIS layer of railroad data to correct highway-railroad crossing inventory data, including cross-referencing/reconciling those data with state/federal data sources, and to add fields to assist future planning efforts, including analysis tasks used in CDOT’s safety and highway-railroad crossing improvements. Analysis tasks were necessary to develop, define, refine, manage, monitor, and report on safety infrastructure located at City highway–railroad crossings.		


Firm employed by <b>Moffatt &amp; Nichol</b>				
	<b>Name</b> <b>Richard Cranfill, EIT</b>	Years of relevant experience with this employer		13
	<b>Title</b> <b>Business Analyst</b>	Years of relevant experience with other employer(s)		2
Degree(s) / Years / Specialization		BS / 2011 / Mechanical Engineer		
Active registration number / state / expiration date		N/A		
Year registered		N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Richard is a <b>Data Analyst</b> and will bring his Tavla Solutions (Tavla) expertise for web application user requirements and workflow analysis and project management for Software as a Service (SaaS) development, implementation and support.		
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/13-02/15		<b>Louisiana Department of Transportation and Development (LADOTD) RSIS Railroad Inventory Upgrade, Baton Rouge, LA. Rail specialist</b> who provided project tracking, project management assistance, and coordination between software development team, engineers and management for a Web-based, crossing safety, inventory service for the LADOTD. Generated a progress report and translated software code for client approval. Developed training material, including webinars and PowerPoint presentations.		
02/15-Ongoing		<b>Railway Rail Inventory Management System (RIMS) for a Class I Railroad, Confidential Location. Project manager and business analysis lead</b> for the Client’s RIMS implementation. Providing RIMS for the Client coincided with a significant change in Federal Railroad Administration (FRA) reporting regulations and required careful planning and organization of extensive updates to RIMS. The Client’s data required detailed analysis to determine accurate sources for new and changing FRA reporting requirements.		
06/14-Ongoing		<b>Nevada Department of Transportation’s (NDOT) Rail Inventory Management System (RIMS), Carson City, NV. Project manager and business analysis lead</b> for the NDOT’s RIMS implementation. Notable experience for this project included the addition of multiple custom features and fields unique to NDOT requirements.		
02/12-11/12		<b>SARAH 3.0 2008 RSIA Upgrade, Raleigh, NC. Assistant project manager</b> and rail specialist who conducted business rules and workflow analysis to assist in the development of a web-based planning application. Tasks included identification of data sources such as the NCDOT SARAH 3.0 rail inventory program and the NCDOT GIS rail layer and developing web-service protocols to link the data and develop a framework for a web-based data aggregation tool for rail planning and project identification.		
02/12-Ongoing		<b>West Virginia Department of Highway Systems (WVDOH) Rail Inventory Management System (RIMS), Charlottesville, WV. Assistant project manager</b> and rail specialist who provided project tracking and scheduling to bring the West Virginia Department of Highways online with RIMS. Coordinated with the WVDOH GIS project manager to schedule development milestones and integrate WV rail and mapping GIS data with RIMS. Provided technical assistance in accordance with other RIMS projects to improve the software and integrate the business needs of the WVDOH rail safety group.		


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> <b>Drew Thomas, PE</b>	Years of relevant experience with this employer	8
	<b>Title</b> <b>Rail Engineer</b>	Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization	MS / 1995 / Engineering with Civil Emphasis BS / 1993 / Civil Engineering		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Drew will be a Rail Engineer under this contract providing design and quality assurance/quality control (QA/QC) for rail transportation safety and data management support for Tavla Solutions' Rail Inventory Management System (RIMS) and benefit-cost analysis initiatives.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/18-Ongoing	<b>General Engineering Consultant for Preliminary Engineering and Construction, Engineering, and Inspection Services, Locations East of the Mississippi. Rail engineer</b> providing general engineering services to support public projects coordination for CSX Transportation (CSXT). Tasks include reviewing preliminary and final design engineering, construction scheduling, and overseeing any infrastructure projects crossing a CSXT right-of-way.		
06/19-06/24	<b>Railroad Preemption Program Assistance and Training Class, MN.</b> As <i>rail engineer</i> , contributed expertise in railroad preemption of highway traffic signals on a contract for the Minnesota Department of Transportation (MnDOT). Provided calculations and/or analysis of preemption timing at several locations in the state. MnDOT requested Moffatt & Nichol's assistance with the railroad crossing preemption process. With expertise in preemption for traffic signals tied to highway-rail grade crossings, Moffatt & Nichol considered all available tools in the industry to assist in developing an improved standard of practice and methodology for evaluating preemption needs at railroad crossings.		
07/18-02/23	<b>Rail Crossing Safety On-Call Contract, Statewide, GA.</b> Under Moffatt & Nichol's third consecutive rail crossing safety on-call contract with the Georgia Department of Transportation, served as <i>rail engineer</i> responsible for QA/QC for crossing safety, rail, preemption, road design, construction inspection, and road design services. Reviewed costs submitted by railroad companies for grade crossing warning system and railroad-preempted traffic signal projects at various locations throughout Georgia. Assessed the condition of existing crossings throughout the state. Assessments included evaluating existing conditions at railroad crossings and identifying improvements that can be made to improve crossing safety.		
02/17-05/18	<b>Fort Valley – Junction City Corridor Grade Crossing Safety Improvements, Atlanta, GA.</b> As <i>rail engineer</i> , provided QA/QC for highway-railroad engineering analysis reports and plans prior to submittal to the Georgia Department of Transportation. The project evaluated grade crossing safety improvements along the Norfolk Southern Railway corridor between Fort Valley and Junction City, Georgia.		
02/12-09/13	<b>Rail Data Analysis and Crossing Inventory Programs, Statewide, NC. Engineering manager</b> for programmatic acquisition and analysis of freight and state-supported passenger rail performance and operational data. Provided management and oversight of public agency personnel and engineering firms in rail data analysis, crossing inventory field and office-based data acquisition, analysis of data for programming and planning of individual crossing safety projects, and development of improved benefit-cost analysis tools for rail and intermodal safety and infrastructure projects.		


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> <b>Dylan Liverman</b>	Years of relevant experience with this employer	15
	<b>Title</b> <b>Software Development Lead</b>	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization	AAS / 2009 / Networking Technology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Being the <b>Software Development Lead</b> , Dyan will utilize Railroad Inventory Management System (RIMS), an interactive Web application designed for management of highway–railroad at-grade crossing inventories.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
12/13-02/15	<b>Louisiana Department of Transportation and Development (LaDOTD) RSIS Railroad Inventory Upgrade, Baton Rouge, LA.</b> <i>Lead software engineer</i> for the design of the Rail Inventory Management System for LaDOTD. Designed an easy to use, mobile-friendly User Interface that satisfied all the needs of office and field personnel. Worked with the Federal Railroad Administration (FRA) to identify the most efficient way to communicate FRA submittals to the National File and analyzed procedures to determine the validation rules mandated by the FRA’s software.		
02/12-09/13	<b>NCDOT Crossing Safety Support, Raleigh, NC.</b> <i>Subject matter expert</i> who provided engineering and analysis, and project testing and evaluations. Aided in data collection and analysis teams. Developed designs, reports, and plans as necessary. Implemented technical approach and performed technical analysis. Provided crossing safety project support and GIS rail layer development and support. Managed GIS requirements and approach for Engineering and Safety Branch and make recommendations to the NCDOT Rail Division and GIS Unit.		
02/15-Ongoing	<b>Rail Inventory Management System (RIMS) for Class I Railroad, Confidential Location.</b> <i>Software engineer</i> who led the upgrade of the RIMS to include state and railroad entities. Performed business analysis and process analysis to create workflows allowing public-private coordination to meet Federal Railroad Administration (FRA) requirements. Oversaw the transition required to meet the new 2016 FRA rulemaking requirements. Performed data analysis and made recommendations to validate and submit crossing data to the FRA.		
07/13-05/23	<b>Nebraska Department of Roads (NDOR) Rail Inventory Management System, Lincoln, NE.</b> Analyzed data contained in state’s mainframe-based rail module and developed a translation tool to migrate data to Moffatt & Nichol’s RIMS. Evaluated data, identified potential ambiguities, and worked with the client to correct. Tailored RIMS to meet the needs of NDOR including developing a Web service to facilitate automated data transfer between RIMS and state mainframe system. System protocols were established for data transfer with client’s IT department to allow exchange in an agreeable format.		
01/13-06/14	<b>NCDOT Rail GIS Data Layer Release 1 and 2, Raleigh, NC.</b> <i>Subject matter expert</i> for NCDOT Rail Division’s NCDOT Rail GIS Data Layer Release 1 and 2. Provided software expertise and rail knowledge for the schema preparation and release of statewide data layers for railroads in North Carolina and provided assistance in the planning required for full development of a robust data set related to the railroad data layer. Prepared and released statewide Rail data, including line work for all rail lines, and point data for all crossings, and all trans-load locations. Attributes based on FGDC Geographic Information Framework Data Consent Standard.		


Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> Eric Granrud, PE	Years of relevant experience with this employer	6
	<b>Title</b> Civil Engineer	Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization	BS, Civil Engineering (Bio-Resource Option), 1998		
Active registration number / state / expiration date	PE 40927 / Louisiana / 03/31/2027		
Year registered	2016	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Meets <b>MPR 2</b> Eric is a <b>Site Civil Engineer</b> , and his responsibilities will include developing and preparing project construction plans, specifications, and contract documents; design calculations; utility and drainage studies; cost opinions; schedules; and technical memorandums.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
06/21-Ongoing	<b>Lake Charles Harbor and Terminal District – Berth 4, 5 and 6 Reconstruction Project, Lake Charles, LA. Site civil Engineer</b> for the design of reconstructing an existing 1,750 ft long timber wharf and break bulk shed with adjacent rail accessible loading dock. The CMAR project includes a completely new shed structure with fire protection systems, loading docks and restroom utilities. The wharf and building are supported by a pile supported concrete system. The features of rail loading dock, truck docks and wharf include roll-on/roll off ramp access at one end of the wharf. Mr. Granrud was responsible for determining final design of roof drainage systems incorporating rail track underdrainage discharge to storm outfall locations.		
10/22-05/23	<b>Georgia Ports Authority, Ocean Terminal – Container Terminal Improvements (PHs2), Savannah, GA. Site civil engineer</b> for the continued conversion of 160 acres of terminal break bulk, rail and RORO yards into container handling yards. Developed plan packages in phases for new intermodal yards, bridges, gates, support services and reefer racks. Bisected by two state highways passing over the facility. Responsible for coordinating required survey maps, topography and subsurface utility investigation (SUE) deliverables. Constraints for constructing portions of systems in phases to allow continued operation during construction was a design requirement.		
10/22-11/25	<b>St Roch Drainage Upgrades and Green Infrastructure, New Orleans, LA. Senior civil engineer</b> responsible for developing final design plans and IFB contract documents on this City of New Orleans project, including 26-block neighborhood utilizing permeable street scape and below ground stormwater detention. Performed internal review prior to bidding of contract documents including technical specifications, construction details, engineers bid items and accompanying engineers cost estimate. Additionally, he facilitated city input on various design related and bidding related matters that required owner direction and oversaw the final preparation of contract bidding documents and construction plans.		
07/16-07/17	<b>LaDOTD Subsurface Utility Engineering, LA. Senior civil engineer</b> responsible for administering SUE on-call design services to LADOTD. Through coordination with LADOTD survey mapping and subconsultant surveying companies, he managed projects from utility location research and due diligence, utility company coordination, traffic management during field marking services, utility depth exploration and field data collection and final SUE map and plan production deliverables used in engineering design.		

Firm employed by <b>Moffatt &amp; Nichol</b>			
	<b>Name</b> <b>Chris Williams, PE</b>	Years of relevant experience with this employer	14
	<b>Title</b> <b>Senior Civil Engineer</b>	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization	MS / 1996 / Civil Engineering BA / 1993 / Civil Engineering		
Active registration number / state / expiration date	28579 / LA / 09/30/2027		
Year registered	1999	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Meets <b>MPR 2</b> Chris is a <b>Senior Civil Engineer</b> providing marine terminal support services and is currently leading efforts in the design and implementation of projects in the coastal area of Louisiana.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/15-05/17	<b>City Docks Berth 5 and 6 Allision Emergency Response, Port of Lake Charles, LA. Lead civil/marine engineer</b> for the emergency response services for a barge allision to Berths 5 and 6 of the City Docks. Provided Technical Leadership in the development of an incident report and development of immediate repair recommendations, including the limits of safe operation. Provided guidance on the development of a Strategic Asset Management Program (SAMP).		
09/12-12/14	<b>Front Street Wharf Rehabilitation, Morgan City, LA. Lead civil/marine engineer</b> for the inspection, rehabilitation design, and construction of the Front Street wharf improvements. This City of Morgan City project provided for the design and reconstruction of a municipal wharf for use primarily by shrimp trawlers and transient private yachts. Specific tasks included inspection and rehabilitation of existing timber piles and design of bulkheads, superstructure, and mooring dolphins, requiring the structural tie-in into up and downstream waterfront infrastructure.		
09/15-12/19	<b>Riverboat Dock Expansion, Baton Rouge, LA. Lead civil/marine engineer</b> for this project to modify the existing riverboat docking facility and expand riverboat cruise berthing capabilities along the Mississippi River. This City of Baton Rouge’s expansion goal was to accommodate the existing river cruise companies as well as new vessels expected to enter the market with capabilities to berth three vessels at the same time. Developed a data collection plan to collect survey and geotechnical data for the design effort, developed a preliminary layout, and prepared an opinion of probable construction costs. The most challenging project component was to develop a cost-effective solution that would provide access from the new floating dock structure to the existing fixed platform, meeting ADA accessibility requirements and accommodate the 40-ft river stage range.		
02/19-07/22	<b>Berth 9 Rehabilitation, Port of Lake Charles, LA. Project principal</b> for the waterfront inspection and assessment as well as leading the engineering design for the rehabilitation of Berth 9. It was determined that repair and structural improvements to improve and extend service life was a more cost effective than replacement, that honored client current and projected future needs. Oversaw the inspection of the existing wharf and steel sheet pile bulkhead as well as the design for rehabilitation of the bulkhead. The project included detailed design of drilled shafts to support the landside end of the existing wharf along with various priority repairs at the facility.		

Firm employed by <b>Moffatt &amp; Nichol</b>				
	<b>Name</b> <b>LeeAnn R. Fitch, PE, CFM</b>	Years of relevant experience with this employer		1
	<b>Title</b> <b>Water Resources Engineer</b>	Years of relevant experience with other employer(s)		8
Degree(s) / Years / Specialization		PhD / 2020 / Civil and Environmental Engineering MS / 2016 / Coastal and Ecological Engineering BS / 2014 / Environmental Engineering		
Active registration number / state / expiration date		44323 / LA / 09/23/2026		
Year registered		2020	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		LeeAnn is a <b>hydraulic engineer</b> and will be providing any hydraulic support services required by LaDOTD projects.		
Experience dates (mm/yy–mm/yy)		Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
08/24-Ongoing		<b>Japhet Creek Phase II &amp; Pedestrian Bridge, Houston, TX. Hydraulic engineer</b> leading the hydrologic, hydraulic, and scour assessments for this \$20.8M construction budget creek restoration, elevated trail, and signature bayou bridge design project. The project consists of easement negotiations, six cohesive crossings, roughly a half mile of multi-use trail adjacent to delicate ecosystems and steep slopes, and H&H studies of existing and proposed conditions for both the 300’ wide bayou and Japhet Creek.		
08/24-Ongoing		<b>Louisiana Watershed Initiative Region 6 Watershed Plan, Region 6, LA. Hydraulic engineer</b> directing use of models and regional data to inform decision-making; support evaluation of mitigation actions, support development of near, mid, and long-range goals for the region; and support plan development, project scoping and regional adaptation strategy development.		
05/25-Ongoing		<b>Route 1 over Rappahannock Canal, Fredericksburg, VA Water resources engineer</b> evaluating the replacement of the existing bridge at Emancipation Highway over Rappahannock Canal. Tasks include evaluating existing and proposed flood elevations, potential scour depths at the proposed bridge and scour countermeasures, and an H&H report for Virginia DOT.		
12/23-07/25		<b>Louisiana Watershed Initiative (LWI) Program Management, Statewide, LA. Project manager</b> who provided support for the LWI Program administered by the LA OCD Disaster Recovery Unit, to provide funding, data, and resources to reduce flood risks throughout the state through a watershed-based approach. Responsibilities included assisting OCD in developing an implementation strategy to accelerate the completion of approximately 130 projects funded through the LWI programs.		
05/22-12/22		<b>Slidell Road Raising, St. Tammany, LA. Hydraulic Engineer</b> responsible for the study and design for St. Tammany Parish Government’s plan to raise multiple roads in Slidell, LA, which become inundated during certain storm events. Tasks included updating and utilizing a Parish-wide 1D/2D model to determine the required elevations of the three road raising projects and the necessary crossing improvements to ensure no adverse impacts to upstream and downstream.		

Firm employed by <b>Moffatt &amp; Nichol</b>				
	<b>Name</b> <b>Drake Foster</b>	Years of relevant experience with this employer		2
	<b>Title</b> <b>CADD Technician</b>	Years of relevant experience with other employer(s)		3
Degree(s) / Years / Specialization		AAS / 2020 / Drafting and Design		
Active registration number / state / expiration date		N/A		
Year registered		N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Drake Foster is a <b>CADD Technician</b> and will be providing any design work required from LaDOTD projects.		
Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/22-05/25	<b>LADOTD NBIS Underwater Bridge Inspections IDIQ, Statewide TO#2. CADD lead</b> responsible for establishment of CADD standards and transcription of field inspection sketches from routine underwater inspection of Bridge super-structures, including signature Emergency Inspections of Mississippi River Bridges. CADD standards established to improve transportation infrastructure/bridge layouts, locate and identify areas of defects and establish take-off quantities of drawings from field sketches for routine underwater inspections. Creating drawings to better visualize bridge layouts and locate areas of defects, count, and quantities from inspections.			
08/23-Ongoing	<b>LADOTD NBIS Underwater Bridge Inspections IDIQ, Statewide TO#3. CADD lead</b> responsible for establishment of CADD standards and transcription of field inspection sketches from routine underwater inspection of bridge super-structures, including signature Mississippi River Bridge crossings in Vicksburg, Baton Rouge, and New Orleans. CADD standards established to improve transportation infrastructure/bridge layouts, as well as locate and identify areas of defects and establish take-off quantities of drawings from field sketches for routine underwater inspections. Created drawings to better visualize bridge layouts and locate areas of defects, count, and quantities from inspections.			
06/23-Ongoing	<b>US NAVFAC P454 Multi-Mission Dry Dock (M2D2) Replacement, Bremerton, WA. CADD technician</b> responsible for assisting civil team with drawing, design, and deconfliction of utilities in AutoCAD C3D in supporting of US Navy Nuclear Submarine Dry Dock Facility replacement. Identified and mapped type and size of utilities for input into demolition plan. Established new Civil3D CADD plan/profile layout for the installation and routing and conflict resolution for the Utilities Installation Issue for Bid Documents.			
09/23-08/24	<b>US NAVFAC Dry Dock 3 Repair and Modernization, Norfolk, VA. CADD technician</b> responsible for assisting with drawing, design, and deconfliction of utilities in AutoCAD C3D in supporting of US Navy Nuclear Submarine Dry Dock System Upgrades. Established Civil3D CADD standards to support the replacement routing of Stormwater, low pressures water, high pressure water, saltwater, oily-waste waste oil, emergency mechanical pumping, power and telecom routing, and steam systems utilities. Used Civil3D to assist in utility conflict resolution.			
07/34-Ongoing	<b>City of Mobile Cooper Riverfront Park Replacement &amp; Park Upgrades, Mobile AL. AutoCAD C3D technical support</b> in developing bulkhead replacement design and upland park upgrades. Required coordination with, ALDOT CSX and Norfolk Southern regarding access/egress crossing access to riverfront park and convention center. Establish CADD Standards for the marine IFB, MEP IFB and civil IFP packages.			

Firm employed by <b>Gresham Smith</b>			
	<b>Name</b> <b>Brennon Hughes, PE</b>	Years of relevant experience with this employer	8
	<b>Title</b> <b>Lead Roadway Design Engineer</b>	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		BS / 2011 / Civil Engineering	
Active registration number / state / expiration date		39985 / LA / 03/31/2026	
Year registered		2015	Discipline <b>Civil Engineering</b>
Contract role(s) / brief description of responsibilities		<b>Lead Roadway Design Engineer.</b> Brennon will lead the development of the conceptual roadway design conceptualization of ROW requirements and cost estimates	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/23-05/24	<b>LADOTD, LA 3089 Serv Rd / LA 70 Up Stage 0 Study, Donaldsonville, LA. <i>Lead Roadway Design Engineer.</i></b> Brennon was responsible for leading the conceptual roadway design alternatives for this Stage 0 Study. This work included developing typical sections along with plan view geometry on aerial layouts for three alternatives. He also assisted with the review of project design criteria along with development of Stage 0 Draft Report and construction cost estimates.		
06/21-01/24	<b>EBR DTD, MovEBR-Plank Road Corridor Enhancement Study and Design, Baton Rouge, LA. <i>Lead Roadway Design Engineer.</i></b> Gresham Smith was selected to perform the corridor enhancement of Plank Road between Dawson Drive to Harding Boulevard. This project will include a topographic survey, a design study for bicycle and pedestrian facilities, improved drainage, transit facilities, new traffic signals, and street lighting. A design study was completed, followed by the development of final design plans. The project will result in a revitalized corridor with improvements for all users.		
03/21-04/24	<b>MSY, Task 4: Entrance Road Capacity, Kenner, LA. <i>Lead Roadway Design Engineer.</i></b> Gresham Smith provided design and project management for the City of New Orleans to widen the main exit road at Louis Armstrong New Orleans International Airport (MSY) from 2 lanes to 3 lanes. The project included widening of approximately 1/4-mile of roadway, extending the roundabout slip lane exit from the roundabout and tying into the design-build flyover project (S.P. H.011670).		
08/22-Ongoing	<b>City of Gonzales, US 61 Superstreet (Lowes Ave to LA 44), Gonzales, LA. <i>Lead Roadway Engineer.</i></b> Gresham Smith is currently performing the design to convert this section of US 61 to a Superstreet. This design will remove all of the uncontrolled median breaks and replace them with directional median U-Turn or J-Turn with exclusive turn lanes. These J-Turns will be controlled by a 2 phased traffic signal which will only stop one direction of US 61 so that the U-Turns can be made. Additionally, the existing signalized intersection of US 61 at Lowes and US 61 at LA 44 will be converted to Restricted Crossing U-Turns (RCUTs). Brennon is the lead engineer on this project, providing roadway design and signal design oversight.		
02/22-11/22	<b>City of Dallas, Vernon/ Tyler Gap from Polk Street to DART Tracks, Dallas, TX. <i>Design Engineer.</i></b> Brennon was the design engineer of record for the Vernon/Tyler Gap (from Polk St to Dart Tracks) Project. This project consisted of converting an existing 6-lane corridor to a 4-lane corridor with buffered bike lanes. Additionally, existing 3- and 4-lane sections of the corridor were modified to accommodate bicycles within the existing roadway footprint. Brennon developed plans of a proposed striping layout on aerial background images, including quantities.		

Firm employed by <b>Gresham Smith</b>			
	<b>Name</b> <b>Alben Cooper III, PE, PTOE</b>	Years of relevant experience with this employer	3
	<b>Title</b> <b>Senior Traffic Engineer</b>	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering		
Active registration number / state / expiration date	36291 / LA / 09/30/2027 PTOE 3206 / 05/02/2027		
Year registered	2011 (LA) 2012 (PTOE)	Discipline	Civil Engineering / PTOE
Contract role(s) / brief description of responsibilities	<b>Senior Traffic Engineer.</b> Alben will assist with traffic related tasks.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/23-05/24	<b>LADOTD, LA 3089 Serv Rd / LA 70 Up Stage 0 Study, Donaldsonville, LA. Senior Traffic Engineer.</b> Gresham Smith was selected for LADOTD’s Stage 0 Studies IDIQ in 2021. In July 2023, Gresham Smith was issued a task order to conduct a Stage 0 Study to identify and evaluate preliminary alternatives at the intersection of LA 70 and LA 3089 in Donaldsonville, LA. The goal of the improvements was to improve operations and safety for vehicular, rail, and other modes of traffic.		
10/23-03/25	<b>Ascension Parish, LA 3127 Extension Environmental Assessment, Donaldsonville, LA. Senior Traffic Engineer.</b> Gresham Smith is a sub to performing the Traffic Study portion of the Environmental Assessment for the LA 3127 Extension from LA 70 to LA 1 in Donaldsonville LA. This study includes existing traffic and safety analysis, developing build year and horizon year traffic counts, analysis of no build and conceptual alignments.		
05/21-05/24	<b>MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA. Senior Engineer.</b> Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Blvd between South Harrell’s Ferry Road and Old Hammond Highway for the Sherwood Forest multi-use path. Alben performed QA/QC for the design of the traffic signals for the I-12 at Sherwood Forest Blvd interchange including pedestrian signals for the multi-use path along the west side of Sherwood Forest Blvd.		
07/18-01/20	<b>Fat City Improvements, Traffic and Parking Study, Jefferson Parish, LA. Lead Traffic Engineer.</b> This traffic study was performed to evaluate potential improvements to the parking and circulation patterns within the area known as Fat City in Jefferson Parish, LA. The recommendations of the study were a part of an overall plan to revitalize Fat City. Alben was the lead traffic engineer on the project which relied heavily on communicating with the district councilperson and various stakeholders. Potential improvements included a wide variety of solutions including converting streets to one-ways, adding bike paths, modifying on-street parking, adding off-street parking, ordinance changes, and improving pedestrian facilities. After the study completion, Alben was invited to be a member of a stakeholder committee to provide input on transportation related items related to the Fat City revitalization.		



moffatt & nichol



# IDIQ Contract for Statewide Railroad Safety

Contract 4400033940

Section 17



**17. Firm Experience:**

Firm name	<b>Moffatt &amp; Nichol</b>		Discipline(s)*	Data Collection, Survey, Planning, and Traffic
Project name	Georgia DOT Grade Crossing Safety Program (Section 130) Support Services		Firm responsibility (prime or sub?)	Prime
Project number	10143	Owner's name	GDOT Office Utilities	
Project location	Statewide, GA		Owner's Project Manager	Jason Mobley
Owner's address, phone, email	600 West Peachtree St, NW, 10th Floor, Atlanta, GA 30308 / (404) 631-1357 / <a href="mailto:jmobley@dot.ga.gov">jmobley@dot.ga.gov</a>			
Services commenced by this firm (mm/yy)	02/15	Total consultant contract cost (\$1,000's)	\$2,000	
Services completed by this firm (mm/yy)	02/23	Cost of consultant services provided by this firm (\$1,000's)	\$800	

**Related Scope of Services:**

- **Railroad crossing safety improvement projects**
- **Railroad crossing data collection**
- **Railroad track and bridge projects**

Since 2011, M&N provided railroad safety corridor studies on over a thousand miles of railroad throughout the state as well as ongoing project management, plan reviews, inventory data collection, site condition drawings, diagnostic evaluations, reports, and documentation through design to construction of signals, new road alignments, preemption, and signing and marking projects. M&N also provided representation at internal and external meetings and public hearings as an extension of GDOT's Office of Utilities staff. These services include the implementation of GDOT's Section 130 Program and roadway projects impacting highway-rail at-grade crossing safety. In addition to the above general tasks, the specific task for which M&N has provided direct services to GDOT included: CSX Consolidation Corridor Safety Project in Quitman, GA; Norfolk Southern Crossing Evaluations Districtwide in GDOT District 2.



Firm name	<b>Moffatt &amp; Nichol</b>		Discipline(s)*	Data Collection, Survey, Planning, and Traffic, CE&I/OV
Project name	Crossing Inventory/Rail Infrastructure Support		Firm responsibility (prime or sub?)	Prime
Project number	8883-10	Owner's name	Kansas City Southern Railway Company	
Project location	New Roads, LA		Owner's Project Manager	Danny Lites
Owner's address, phone, email	4601 Hilry Huckaby III Avenue Shreveport, Louisiana/ (318) 676-6296 / Danny.Lites@cpkcr.com			
Services commenced by this firm (mm/yy)	11/15	Total consultant contract cost (\$1,000's)	\$200	
Services completed by this firm (mm/yy)	11/20	Cost of consultant services provided by this firm (\$1,000's)	\$195	

### Related Scope of Services:

- **Railroad crossing safety improvement projects**

M&N was selected to perform evaluations on rail corridors through rural and municipal regions to determine if and what type of **consolidation of crossings could be achieved to improve crossing safety while reducing the potential for crossing collisions**. This work involves the evaluation of the railroad operations, roadway network, local traffic operations, emergency response routes, crossing safety treatments, and road and lane configurations. Improvements include new road construction, crossing signal and traffic signal installations, crossing closures, drainage improvements, road resurfacing projects and Federal Grant development and submittals to increase funding to the state to implement consolidation projects. Once a corridor proposal is developed, M&N negotiates with the State DOT for inclusion in the state's Crossing Safety Program and then coordinates with the road authority's board/council to facilitate the public hearing process for the corridor consolidation project. M&N designs all roadway, traffic, and crossing improvements and oversees construction activities until the projects are complete.



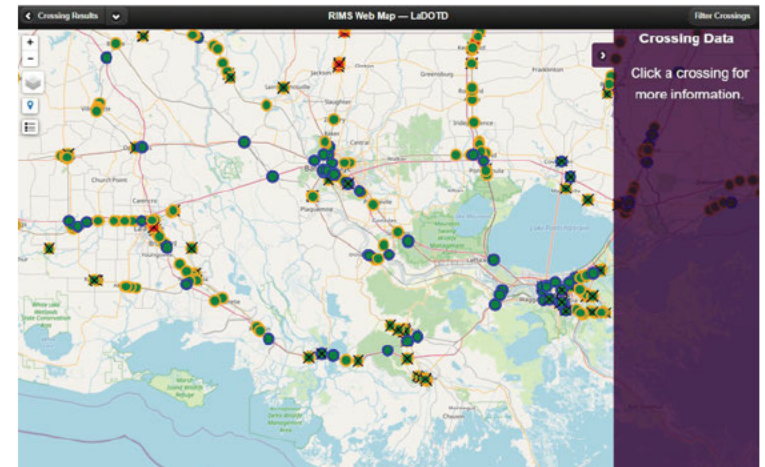
M&N designs all roadway, traffic, and crossing improvements and oversees construction activities until the projects are complete.

Firm name	<b>Moffatt &amp; Nichol</b>		Discipline(s)*	Data Collection	
Project name	Louisiana DOTD (LADOTD) Crossing Inventory/Rail Infrastructure Support		Firm responsibility (prime or sub?)		Prime
Project number	7634/01	Owner's name	LADOTD		
Project location	Statewide, LA		Owner's Project Manager	Shawn Luke	
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802 / (225) 379-1543 / <a href="mailto:Shawn.Luke@LA.gov">Shawn.Luke@LA.gov</a>				
Services commenced by this firm (mm/yy)	12/11	Total consultant contract cost (\$1,000's)		\$370	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$350	

### Related Scope of Services:

- **Railroad crossing safety improvement projects**
- **Railroad crossing data collection**

Since 2015, M&N has performed a comprehensive evaluation of LADOTD RSIS data and FRA inventory data for Louisiana railroads and provided suggestions to modify state RSIS data to comply with the latest FRA requirements, implement charges, and incorporate FRA with LADOTD data into a Web-based system. We reviewed data discrepancies and plotted a course of action to resolve discrepancies/implement changes and coordinated with state Class I and short line railroads to promote data accuracy. M&N also evaluated LADOTD's highway railroad safety prioritization process and provided recommendations to improve models/update current rate factors. We prepared a final report with project overview/recommendations on how LASOT, FRA, and railroads could best maintain consistent records for highway railroads crossings and assisted LADOTD with both report and personnel preparation for bi-annual railroad safety meetings with FHWA, FRA, and other stakeholders to promote, support, and plan the ongoing safety program.



Firm name	<b>Moffatt &amp; Nichol</b>		Discipline(s)*	Bridge, CE&I/OV, Survey, and Traffic
Project name	CSX General Engineering Contract (GEC) On-Call		Firm responsibility (prime or sub?)	Prime
Project number	210013	Owner's name	CSX Transportation	
Project location	Multi-State – Systemwide		Owner's Project Manager	Michael Liebelt
Owner's address, phone, email	4900 Old Osborne Tpk, Richmond, VA 23231 / (804) 226-7718 / <a href="mailto:Michael.Liebelt@csx.com">Michael.Liebelt@csx.com</a>			
Services commenced by this firm (mm/yy)	01/21	Total consultant contract cost (\$1,000's)	\$5,000	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$2,500	

#### Related Scope of Services:

- **Railroad crossing safety improvement projects**
- **Roadway and sidewalk projects**

M&N is providing general engineering and construction oversight services to support Public Projects coordination on an on-call basis. Currently, M&N is working on 71 tasks across 3 states, and this work includes, but is not limited to, project administration and management, budget estimating, agreement and insurance coordination, review of preliminary and final design engineering, and construction scheduling and oversight. These projects include any infrastructure projects crossing or encroaching on CSXT ROW which include road construction and resurfacing, new bridge construction and bridge maintenance, crossing signal projects, and pedestrian infrastructure, as well as pathways and tunnels.

Design review includes a review of designs for impacts to railroad property, operations, and drainage. M&N provides feedback on design changes needed to mitigate issues identified that create an impact on the railroad. During construction oversight efforts, M&N participates in and supports all CSX safety initiatives by maintaining 24/7 communication with CSX and approved contractors during the construction phase. Site construction activities are monitored to ensure FRA and CSX rule compliance as well as railroad operational safety. Additionally, M&N coordinates project activities on behalf of CSX by providing the needed safety coverage applicable to the work to be performed by contractors, coordination of CSX EIC personnel or 3rd party flagging coordination where applicable and monitoring daily charges incurred on each project to verify accuracy. Detailed reports of construction oversight presence and progress of contractor projects with impact or potential impact on CSX property and/or operations are developed to ensure safety protocols and procedures are followed.



Firm name	<b>Moffatt &amp; Nichol</b>		Discipline(s)*	Bridge and Data Collection
Project name	Tennessee Short Line Rail Evaluation		Firm responsibility (prime or sub?)	Prime
Project number	10307-09	Owner's name	TDOT	
Project location	Statewide, TN		Owner's Project Manager	David Martin
Owner's address, phone, email	J.K. Polk Building, 9th Floor, 505 Deaderick St, Nashville, TN 37243 / (615) 253-1048 / David.J.Martin@tn.gov			
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost (\$1,000's)	\$498	
Services completed by this firm (mm/yy)	07/21	Cost of consultant services provided by this firm (\$1,000's)	\$483	

### Related Scope of Services:

- **Railroad track and bridge projects**
- **Railroad track and bridge data collection**

M&N assessed all short line railroad infrastructure across Tennessee. This work involved assessing the physical condition of all rail and bridges while evaluating the railroads' economic viability to determine the best locations for infrastructure improvements and provide value for the entire railroad system. The infrastructure analysis includes conducting a field assessment of the existing condition of approximately 812 miles of track and 512 bridges statewide and provides a high-level estimate of the cost to bring these facilities to an appropriate state of good repair for 286,000-pound loads. The economic viability evaluation includes reviewing the existing freight traffic on the short line system, along with the region with potential for future traffic generation, to determine the best line segments for infrastructure improvements. Understanding the magnitude of needed capital investments related to the future potential for freight traffic systemwide will help the State make better decisions about the investment of limited Transportation Equity Fund dollars.



Firm name	<b>Gresham Smith</b>		Discipline(s)*	Road
Project name	LADOTD, LA 3089 @ LA 70 Stage 0 Study		Firm responsibility (prime or sub?)	Prime
Project number	H.010074.1	Owner's name	Louisiana Department of Transportation and Development	
Project location	Donaldsonville, Louisiana		Owner's Project Manager	Hong Zhang, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / (225) 379-1205 / <a href="mailto:hong.zhang@la.gov">hong.zhang@la.gov</a>			
Services commenced by this firm (mm/yy)	07/23	Total consultant contract cost (\$1,000's)	\$201	
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm (\$1,000's)	\$194	

Gresham Smith was selected for LADOTD's Stage 0 Studies IDIQ in 2021. In July 2023, Gresham Smith issued a task order to conduct a Stage 0 Study to identify and evaluate preliminary alternatives at the intersection of LA 70 and LA 3089 in Donaldsonville, LA. The goal of the improvements was to improve operations and safety for vehicular, rail, and other modes of traffic.

LA 70 at LA 3089 currently operates as an all-way stop controlled intersection with a railroad crossing LA 70 approximately 140' south of the intersection. The eastbound vehicles on LA 3089 and the northbound vehicles on LA 70 must stop two times to travel through this intersection. The proximity of the railroad crossing to the all-way stop intersection causes concern due to the vehicles stopped on the railroad tracks and the high number of trains that pass this crossing.



This project began with project kick off meeting to discuss scope and schedule. The Gresham Smith team immediately began work on project research and data, which included a site visit. Our sub-consultant, ELOS Environmental, completed the environmental checklist for this project. Our team developed several conceptual designs before narrowing them down to three alternatives to move forward with. These alternatives included a signalized T-Intersection, a Roundabout, and roadway reconfiguration which reduced conflict points by providing indirect left turns. Each of the alternatives included descriptions, typical sections, plan view geometry, and traffic analysis which were all documented in the Feasibility Report.

This project had a 12-month schedule with deliverables that included the Draft Report, Final Draft Report, and Final Report. Project Manager Richard Savoie managed the schedule with Microsoft Project. Each of our deliverable milestones were submitted ahead of schedule and the Final Report was submitted two months early in May 2024. Additionally, this was a billable rates contract with the total compensation not to exceed \$201,606. Our team completed this project with an invoice total of under \$123k, saving DOTD nearly \$80,000.


Firm name	<b>Gresham Smith</b>		Discipline(s)*	ITS
Project name	Train Detection System (2020)		Firm responsibility (prime or sub?)	Prime
Project number	55-19203	Owner's name	Jefferson Parish Government	
Project location	Metairie, Louisiana		Owner's Project Manager	Jeb Tate
Owner's address, phone, email	1221 E. Elmwood Park, Jefferson, LA 70123 / (504) 736-6720 / <a href="mailto:jtate@jeffparish.net">jtate@jeffparish.net</a>			
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost (\$1,000's)		\$150
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$150

For years, residents in Metairie, Louisiana, have complained about train traffic and delays at the busy Norfolk Southern railroad crossing on Metairie Road, one of the busiest two-lane highways in the state. To tackle this problem, Gresham Smith teamed with Jefferson Parish Council Member Jennifer Van Vrancken to develop Move Metairie Tracking Forward, a first-of-its-kind patent-pending technology and free app that residents can download.

To design the technology, Gresham Smith worked with Jefferson Parish to install detectors and cameras just outside the train's right-of-way. These detectors triangulate the path of a train, continually transmitting its presence and speed, as well as directional information and when it will block the crossing. The app collects this information, determines how long the train will block the tracks, and shares this information to the public via an Android or Apple iOS mobile app.


Impactful features for users include:

- Advanced notice of trains approaching Metairie Road
- Estimated time until train arrives at the Metairie Road crossing
- Alerts on the direction of train travel
- Estimated time until train crossing is clear
- Live camera view of the railroad crossing
- Notifications once crossing is clear



*Real-time updates help residents plan, avoid delays and enjoy a better quality of life.*

**Client Testimonial**



*"It's not just a user friendly tool for motorists. It's also a vital tool for first responders by letting them know if the crossing is accessible. Approximately 20 trains traverse the crossing each day, and those 10 to 15 minutes spent waiting for a train to clear the tracks can truly mean the difference between life and death.*

*Now that Gresham Smith has developed the technology and the app is working with a high degree of accuracy, I feel like this is just the beginning. In fact, we'd like to see this same technology used across our parish and across the region in the future."*

- Jennifer Van Vrancken  
Jefferson Parish Councilwoman, Council District 5



Firm name	<b>Gresham Smith</b>		Discipline(s)*	Bridge
Project name	US 71 Spring Street Bridge Emergency Repairs		Firm responsibility (prime or sub?)	Prime
Project number	H.014361	Owner's name	Louisiana Department of Transportation and Development	
Project location	Shreveport, Louisiana		Owner's Project Manager	Heather Patton
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802 / (225) 379-1306 / <a href="mailto:heater.patton@la.gov">heater.patton@la.gov</a>			
Services commenced by this firm (mm/yy)	15/20	Total consultant contract cost (\$1,000's)	\$115	
Services completed by this firm (mm/yy)	08/20	Cost of consultant services provided by this firm (\$1,000's)	\$115	

On the morning of April 24, 2020, a Union Pacific train derailed in Shreveport, Louisiana, causing extensive damage to the historic Spring Street Bridge and its critical northbound overpass that carries an average of 47,000 vehicles a day in downtown Shreveport. The derailment resulted in an emergency closure and extensive detour of this primary route. In a race against time to get the bridge reopened to traffic, LADOTD quickly issued an emergency task order for Gresham Smith to conduct complex bridge inspections and repairs. Within two days of the derailment, our Baton Rouge office's bridge team was on-site.

Following a cursory inspection of the historic structure, our team immediately began preparing design plans to replace an integral, load-carrying steel bent that was damaged beyond repair, and to add a concrete crash wall to protect the bridge from future train derailments. Gresham Smith worked hand-in-hand with general contractor CEC, Inc. to have the heavily traveled bridge reopened within just four months—eight months faster than your more typical bridge design and repair project.





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# IDIQ Contract for Statewide Railroad Safety

Contract 4400033940

Section 18



## 18. Approach and Methodology:

### Moffatt & Nichol History

Over the past 20 years, Moffatt & Nichol, Inc.'s (M&N) team has performed crossing safety work for state, county, and city agencies as well as a majority of the Class I railroads, including CSX, NS, UP, BNSF, and CPKC, throughout 37 different states. The M&N team has worked on six separate state IDIQ Rail Safety contracts, as well as rail corridor projects in the State of Louisiana. The projects that M&N has presented in Section 17 of our 24-102 were deliberately selected to demonstrate the following aspects of this contract:

- **Project #1 - GDOT Grade Crossing Safety Program:** This contract is directly equivalent to the anticipated scope of services and required expertise for this contract. We also maintain similar IDIQ contracts with TN, VA, WI, NE, and NC State DOTs.
- **Project #2 - New Roads, LA, Crossing Inventory/Rail Infrastructure Support:** As an output of the LADOTD RIMS contract, this example Louisiana project evaluated and developed through construction, for which M&N provided resident inspection services.
- **Project #3 - LADOTD Crossing Inventory/Rail Infrastructure Support:** This project demonstrates M&N's understanding of the priorities of rail crossing safety improvements and the data and spatial analytics to support BCAs and prioritization program.
- **Project #4 - CSX General Engineering Contract On-Call:** This on-call contract (one of four that M&N holds with Class I Railroads) demonstrates our expertise in engineering and design support services to the Class I railroad and is a key example of M&N's ability to "speak railroad."
- **Project #5 - Tennessee Short Line Rail Evaluation:** This task demonstrates a unique approach determining where to spend capital improvement funds based off a physical assessment of the

existing track infrastructure as well as the economic viability of each railroad.



Due to our on-call contracts with the Class I and multiple Short-Line Railroads, the M&N team is “bilingual” in the ways that we talk and understand DOTD language but are also trusted partners with the Class I Railroads (CSX). We have completed more than 70 unique state task orders, including a Short Line Railroad economic evaluation for an entire state. *We have multiple IDIQ contracts with LADOTD, focusing primarily on transportation infrastructure.* We have held the LADOTD RIMS contract since 2011, successfully resolving hundreds of railroad crossing issues over this time. Our role in leading the development, deployment, and maintenance of the LADOTD RIMS contract, puts M&N in a unique position in that we have an “insider knowledge” of the rail crossing safety concerns, the nature and extent of the infrastructure improvement requirements, and the data to support Benefit Cost Analyses and grant applications. We sincerely hope we can continue to support LADOTD in leading the charge with Railroad Crossing Safety Improvements.

## Understanding of the Project

We have *evaluated literally tens of thousands* of highway-rail crossings and led hundreds of public workshops and public hearings in the development of implementable rail safety crossing improvements. Our work typically includes project development and design of crossings, rail facilities, roads and bridges, field diagnostics, preemption development, cut-in inspections, funding evaluations, stakeholder negotiations, public meeting and local road authority coordination, design and estimate development with construction specifications, and review and construction oversight. We continually take projects from conception through construction.

Railroad corridor, bridge, and track improvement projects typically have a geographical broader scope for overall evaluation as part of corridor studies and can frequently develop series of crossings for combined improvements, ranging from preemption improvements, signing, and marking upgrades and/or obstruction/vegetation removal, to warning device upgrades, roadway, or crossing surface improvements, which can include realignments and crossing consolidations. While we understand that every state manages its programs differently, FHWA guidelines carry over from state to state. *With our 14-year history leading the LADOTD RIMS Contract, we have an intimate understanding of how LADOTD manages its program.* Our knowledge of the Section 130 Program allows us to stay up to date on changes in national standards, which in turn allows us to effectively assist LADOTD in evaluating and implementing projects as standards change in our industry.

Additionally, through our involvement with NCUTD, AREMA, and ITE committees, coordinating with state, county, and municipal agencies, railroads, and the public through public hearings, we have a significant amount of ability in negotiating projects that can be accomplished through the Section 130 Program. This is due to us having the experience to do so and the respect from the Railroads familiar with our expertise in balancing the interests of the Railroads

and the State Programs. We have been successful thanks to the trust earned by all parties. Our contacts with the railroads, FHWA, and FRA provide the benefit of vetting unique situations and resolving potential conflicts early (at the design stage rather than expensive and schedule-breaking field change orders during construction), leading to more successful and efficient project development and coordination, especially when Federal funds are involved. This team's experience across different states and different railroads furnishes us with an unparalleled base knowledge handling unique situations that occasionally arise during otherwise routine projects.

### A Team Dedicated to Rail Safety

*Our people are experts in these areas and love to work on these projects. We relish the opportunity to support and be part of your team.*

Railroad safety is work that our team gets up and looks forward to every day. The result is a team dedicated to getting the job done and putting in as much work as needed to satisfy our clients' needs. We enjoy what we do and are very excited about the opportunity to work with LADOTD on your rail-related programs.

### M&N Rail Safety Foresight

The M&N Team provides an ideal partnership to LADOTD for rail crossing safety design, planning, and coordination. LADOTD can rely on M&N's national expertise, specifically in the area of rail crossing safety, but with local, immediate attention. We are a full-service transportation firm, and all practices are available to LADOTD for this project and future tasks.

M&N identified years ago that programs are witnessing specific rail crossings that qualify as low risk. This industry change reflects the need for a more robust program as the easily identified projects have been completed without concern. Justifying safety benefits has become more challenging over time and innovation is required for the Rail Safety Program to evolve. The Rail Safety Program's successful

implementation and the additional focus to update the Section 130 Program nationally results in tremendous opportunity to advance the Rail Safety Program.

#### Proven Rail Safety Experience

*M&N's rail experience across the Country is extensive, putting us on the forefront of rail crossing safety and new innovations and best practices.*

With this broad-spectrum, multi-faceted approach, LADOTD can expect the following unique and innovative approaches that provide additional value in the execution of this contract.

#### Benefit-Cost Analyses Economics

As available funds become more competitive and FHWA continues to consider rolling the Section 130 set aside into the standard transportation budget, the need for crossing safety projects to be competitive for highway funding is imperative. Every Benefit-Cost model in the industry primarily compares the crash potential of one intersection to that of another.

M&N is taking the lead and is on the cutting edge of benefit-cost analysis for infrastructure improvements. In a recent study for the North Carolina DOT Rail Division, M&N economists and risk modeling analysts reviewed rail crossing safety improvements and quantifiable crash impacts through a financial lens. The study identified the costs of accidents/incidents at rail crossings, including costs of impacts to the road and rail transportation networks resulting from delays. As the first in the Country, the analysis developed indirect costs in addition to known direct costs, quantifying impacts to the traveling public such as costs for lost time, rerouting, emergency response time, and railroad downtime. *The analysis shed new light on rail crossing safety improvements and provided a powerful economic tool that can be scaled from one crossing to a statewide analysis of all crossings.*

#### Rail Inventory Management System (RIMS)

M&N has developed proprietary tools in field and office database documentation and research. Our system connects directly with FRA's Crossing Inventory Database, reducing potential errors and identifying inconsistencies. Additionally, FRA information can be obtained on demand in the field, providing additional value to diagnostic team investigations and field reconnaissance. M&N's data management tools can be translated to GIS, offering LADOTD additional powerful tools for analysis. Attributes such as humped crossings, blocked crossings, or other attributes noted in the field, identified by the railroads, or identified internally by LADOTD or by local governments, can be logged and mapped. The wide range of applications provided by data management and GIS expertise offers a flexible option should the need arise as the Rail Safety Program evolves.

#### Blocked Crossings

Blocked crossings are a topic of renewed focus due to their direct impact on local and regional economies and safety. A provision of the Bipartisan Infrastructure Law permits agencies to seek funding to mitigate blocked crossings. Through an asset management approach, *the M&N team can*

*develop a database of blocked crossings throughout the State of Louisiana.* Available studies, relationships around the State, and conversations with railroads allow a real conversation regarding the blocked crossings issue. With the legal risk associated with this operational issue, the railroads will generally limit their public input. With M&N as a trusted advisor to LADOTD, a collaborative



environment is established, conversations become transparent, and solutions become apparent.

### Data/Asset Management

Risk Models have served us well over the years but are reaching a point where they are becoming ineffective in properly prioritizing crossing safety needs. As a result, many states are modifying their programs to include antiquated warning devices, implementing corridor projects, undertaking preemption programs and school bus crossing programs, as well as adding additional factors to the risk models for crossing risk assessments. Through our data management and risk modeling capabilities, *M&N is leading many of these industry-changing initiatives throughout the Country.* Many of our rail safety experts started work as part of a State DOT and fully understand the challenges LADOTD undertakes daily, managing the Section 130 Program as a good steward and balancing safety with cost of a program with finite funding.

One of the paramount cornerstones of the continued success of the implementation of the Rail Safety Program is the effectiveness of the QA/QC protocols. M&N is committed to managing a quality process that will accommodate project schedules, reward innovation, and identify and deliver constructible projects. The team leadership understands that quality is interwoven into all project elements, not just in technical design. Regular communication, schedule and scope management, and resource management are other critical aspects of delivering quality for LADOTD.

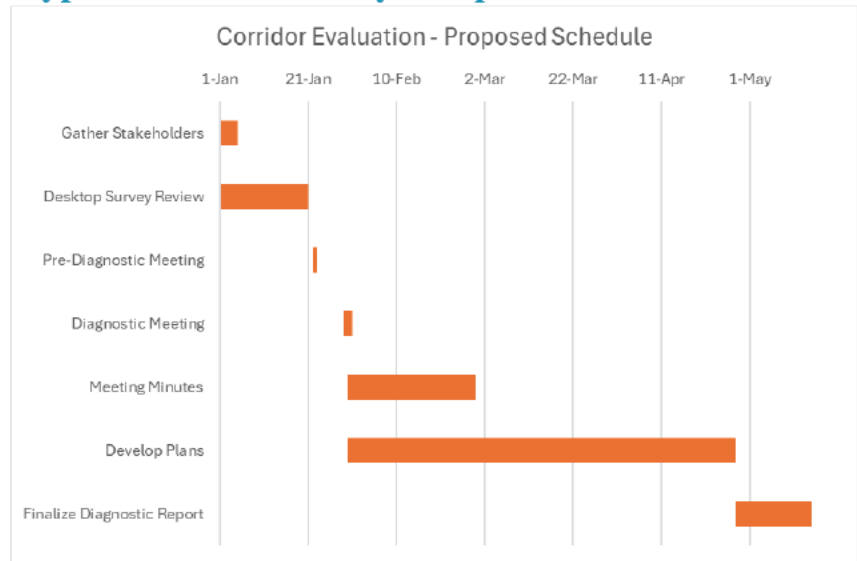
Eric Nichol, PE (M&N's Chief Executive Officer) has established a "Quality Commitment" made to all staff and clients. As subconsultants, all proposed teaming members will also be bound to uphold this commitment. In addition to an organized system of checks and balances, M&N regularly conducts internal quality audits at intervals set by the company's Corporate Director of Quality to verify general compliance with the firm's Quality Management System

(QMS) procedures. Quality audits evaluate the quality of deliverables being produced, with special emphasis on compliance with QMS procedures. Quality audits are for quality assurance and are designed to verify that quality control on any given project is being carried out in accordance with the project's quality plan. They are separate from the project technical reviews completed as part of quality control. M&N's management system is ISO 9001-certified. This certification demonstrates that the QA/QC process is set up to meet these stringent standards and practiced in every office. M&N's management pledges never to eliminate quality checks to save time, reduce costs, or meet other short-term objectives. *Our quality program applies to all tasks and projects, no matter the size.*

### Experienced Subconsultants

**Gresham Smith** will be supporting M&N on this Contract as a subconsultant, who were specifically selected for their LADOTD Traffic Engineering knowledge and experience previously supporting M&N. Gresham Smith is available to add staff to bolster the team when needed, providing seamless bench strength to an already qualified and eager team.

### Typical Corridor Study Sample Schedule





moffatt & nichol



# IDIQ Contract for Statewide Railroad Safety

Contract 4400033940

Sections 19–22





**19. Workload:**

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

- 1) one of the team's firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) <u>ALL FIRMS MUST BE REPRESENTED IN THIS TABLE</u>	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
 moffatt & nichol	Bridge	44-29207 / H.009730.5	IDIQ Contract for Underwater Bridge Inspection – TO1, Statewide (240826/01)	\$2,771,560
	Other (Sign Trusses and Radio)	44-31911 / H.011331.1	IDIQ Contract for Inventory and Inspection of Sign Trusses and Radio Towers – TO1 (242073/01)	\$2,263,416
	Bridge	44-24187 / H.014609	IDIQ Contract for Bridge Preservation Statewide	\$36,869
	Data Collection	44-11834 / H.012811.1	DOTD Railroad Inventory Management System	\$22,596
 Gresham Smith	Bridge	44-21514; H.012003	Movable Bridge Contract 2	\$262,200
	CE&I/OV	44-21740; H.004100.6	I-10 LA 415 to Essen Lane	\$30,994
	CE&I/OV	44-24424; H.013256.6	I-10 Scott to Lake Charles ITS CEI	\$2,197
	CE&I/OV	44-25536; H.014088.6	US 61 Intersection Improvements @ LA 427 (MBI)	\$135,337
	CE&I/OV	44-25536; H.015944.6	LA 3125: la 70 - LA 323	\$7,776
	Other (Program Mgt)	44-27186; H.015959.1	Discretionary Grant Administration	\$1,292,676
	Road	44-19871; H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	\$2,411
	Road	44-21326; H.014693.1	Stage 0 LA 67 (Plank Rd) at LA 3006	\$74,734
	Road	44-26911; H.015202.5	LRSP/STRPPP TO #10 Donaldsville	\$86,608
Road	44-26912; H.013720.5	LRSP/STRPPP TO #5 Bonner Construction	\$1,423	

Road	44-26912; H.013720.5	LRSP/STRPPP TO #12 LA 31 Sidewalk	\$197,619
Road	44-26912; H.015203.5	LRSP/STRPPP TO #2 Pinhook	\$1,423
Road	44-26912; H.016205.5	LRSP/STRPPP TO #13 LA383 Sidewalks	\$161,204
Road	44-27181; H.015861.5	LA 4 (Jonesboro)	\$155,492
Road	44-27181; H.015918.5	Downtown Winnfield	\$168,365
Road	44-27210; H.012859.5	Roundabout at Valhi Blvd	\$201,637
Road	44-31004; H.015580.5	Natchitoches Safe Streets	\$128,723
Traffic	44-198771; H.015201	LRSP/STRPPP Richwood Traffic Study	\$6,289
Traffic	44-25298; H.013388.5	Lafourche Flashing Yellow Arrow Traffic Signal Upgrade	\$8,577
Traffic	44-25298; H.016007.1	Traffic Signal Comm SEA	\$9,189
Traffic	44-25298; H.016039.5	LA 47: LA46 - Virtue St	\$149,805
Traffic	44-25298; N/A	LA 24: Downtown Houma Study	\$80,352
Traffic	44-26911; H.013713.5	LRSP/STRPPP TO #4 LA 60 Bogalusa	\$39,434
Traffic	44-26911; H.013718.5	LRSP/STRPPP TO #3 LA 23 Gretna	\$102,951
Traffic	44-26911; H.014629.5	LRSP/STRPPP TO #1 Lafourche Design	\$1,021
Traffic	44-26911; H.015198.5	LRSP/STRPPP TO #5 S. Carrollton)	\$1,072

\* **The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.** If a firm has more than one discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per discipline.


\*\* Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: **ALL** FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

**20. Certifications/Licenses:**

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



**State of Louisiana**  
**Department of Transportation and Development**  
 This certificate is presented to  
**Jonathan R Turner**  
 for successfully completing  
**The Local Public Agency (LPA) Qualification Program:  
 Construction, Engineering, & Inspection (CE&I)  
 Training (Parts 1-9) on**  
 January 8, 2026







**State of Louisiana**  
**Department of Transportation and Development**  
 This certificate is presented to  
**Celeste L Fontenelle**  
 for successfully completing  
**The Local Public Agency (LPA) Qualification Program:  
 Construction, Engineering, & Inspection (CE&I)  
 Training (Parts 1-9) on**  
 January 9, 2026




*Certificate of Completion*  
 presented to  
*Alben Cooper*  
 for completing the  
**Traffic Engineering Analysis Process & Report  
 Module 1**

Date: February 25, 2019      Professional Development  
 Location: Bridge City, Louisiana      Hours (PDHs) Awarded: 2








Authorized Instructor      Authorized instructor      Authorized instructor




*Certificate of Completion*  
 presented to  
*Alben Cooper*  
 for completing the  
**Traffic Engineering Analysis Process & Report  
 Module 2**

Date: February 25, 2019      Professional Development  
 Location: Bridge City, Louisiana      Hours (PDHs) Awarded: 3

Authorized Instructor      Authorized instructor      Authorized instructor







PTOE #3206

Personal Information

**Mr. Alben P. Cooper, III, P.E., PTOE**  
Transportation Engineer  
Urban Systems, Inc.

TPCB Certification Details

Certification Type	TPCB Status	Application Date Received	Audit	Certification Date	Expiration Date	Reasonable Testing Accommodati	PE License Issued State
Professional Traffic Operations Engineer #	Active		No	5/2/2012	5/2/2024		

There are no records.





**21. QA/QC Plan:**

Not to be provided with proposal but will submit if selected.

**22. Sub-consultant information:**

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

<b>Firm Name</b> (Name must match <u>exactly</u> as registered with Louisiana’s Secretary of State (SOS): <u>including punctuation, include screenshot(s) from SOS at the end of Section 20</u> )	<b>Address</b>	<b>Point of Contact and email address</b>	<b>Phone Number</b>
<b>Gresham Smith</b>	10000 Perkins Rowe Suite G520 Baton Rouge, LA 70810	Herbert “Bert” Moore II, PE, PLS, PTOE Bert.moore@greshamsmith.com	(225) 757-5849



**23. Location:**

This section has been left blank, per the RFP.



moffattnichol.com

**Contact:**  
Jonathan Turner, PE  
Moffatt & Nichol  
301 Main Street, Suite 800  
Baton Rouge, LA 70801  
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