STATEMENT OF QUALIFICATIONS FOR ENGINEERING AND RELATED SERVICES

RR Safety: Data & Inventory (2024-2026)

LADOTD

Contract No. 4400035239

HDR Engineering, Inc.

JUNE 2026

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	RR Safety: Data & Inventory (2024-2026)
2. Contract Number(s) as shown in the advertisement	4400035239
3. State Project Number(s), if shown in the advertisement	H.015402.1
4. Prime consultant name **(name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)**	HDR Engineering, 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.0001231
6. Prime consultant mailing address	8545 United Plaza Boulevard, Suite 379 Baton Rouge, LA 70809-0204
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8545 United Plaza Boulevard, Suite 379 Baton Rouge, LA 70809-0204
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Wesley Jacobs, PE – Associate Vice President (225) 465-6361, wesley.jacobs@hdrinc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Brett L. Geesey, PE – Vice President (337) 347-5598, brett.geesey@hdrinc.com

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

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. **Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.**	 Signature above shall be the same person listed in Section 9: Date: 6/4/2026

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): N/A (no DBE goal)	Firm(s)' %:

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.**

Discipline(s)	% of Overall Contract	**HDR Engineering, Inc. (Prime)**	**Westwood Professional Services, Inc. (Sub)**				Each Discipline must total to 100%
Data Collection	75%	95%	5%				**100%**
Planning	25%	100%	0%				**100%**
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	**100%**	96.25%	3.75%				

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)
HDR Engineering, Inc.	Principal	2	10
	Engineer	2	15
	Engineer - Other	3	52
	GIS Analyst	3	12
	Other (Communications)	1	5
	Supervisor-Eng	1	46
	Supervisor-Other	2	12
Westwood Professional Services, Inc.	Engineer Intern	1	4
	Inspector - Lead	1	5
	Engineer	1	10

(Add rows as needed)

***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

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PRINCIPAL IN CHARGE
Brett Geesey, PE (MPR 1)

PROJECT MANAGER / TRAINING
Amanda Stahlnecker, PE ◆ (MPR 4)

CONTRACT MANAGER
Wes Jacobs, PE (MPR 2)

RAILROAD COORDINATION/QC
Russell McNaught, PE

DATA MANAGEMENT
Brann Greager, PE ◆ (MPR 5)
Kalyan Javvaji (MPR 5)

STRATEGIC COMMUNICATIONS
Meagan Harris

INVENTORY UPDATES
Chris Ryan, PE ◆ (MPR 4)
Hadi Alsaffar, PE ◆
Rhys Bellman
John Dameron
Conor McGuinness, EI
Claire Lavergne, PE+

PRIORITIZATION
Sara Clark, PE ◆ (MPR 4)
Nathan Spraggins, PE

PROFILE EVALUATION / PRIORITIZATION
Eric Frostestad, PE (MPR 3, 4)
Nick Samuelson, PE ◆

LEGEND

◆ Licensed PE in a U.S. state (Not LA)
(MPR #) = Minimum Personnel Requirement
+ ATSSA Traffic Control Design Specialist

Subconsultants:
Westwood

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.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	**Brett Geesey, PE**	**HDR Engineering, Inc.**	PE #35172 - Civil	LA	3/31/2028
2	**Wesley Jacobs, PE**	**HDR Engineering, Inc.**	PE #30774 - Civil	LA	9/30/2026
3	**Eric Frostestad, PE**	**HDR Engineering, Inc.**	PE #32737 - Civil	LA	3/31/2027
4	**Amanda Stahlnecker, PE**	**HDR Engineering, Inc.**	PE #124571 - Civil	TX	9/30/2026
	Eric Frostestad, PE	**HDR Engineering, Inc.**	PE #32737 - Civil	LA	3/31/2027
	Chris Ryan, PE	**HDR Engineering, Inc.**	PE #51334 - Civil	MN	6/30/2026
	Sara Clark, PE	**HDR Engineering, Inc.**	PE #18160 – Civil	KS	4/30/2028
5	**Brann Greager, PE**	**HDR Engineering, Inc.**	N/A	N/A	N/A
	Kalyan Javvaji	**HDR Engineering, Inc.**	N/A	N/A	N/A

(Add rows as needed)

16. Staff Experience:

Firm employed by: **HDR Engineering, Inc.**			
Name	**Hadi Alsaffar, PE**	Years of relevant experience with this employer	4
Title	Rail & Transit Engineer	Years of relevant experience with other employer(s)	0

Degree(s) / Years / Specialization			Bachelors / 2019 / Civil Engineering
Active registration number / state / expiration date			Professional Engineer #62920 / MN / June 30, 2026
Year registered	2024	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities			Inventory Updates / Implement methodology for inventory updates and maintain compatibility with FRA and DOTD requirements.

Hadi has extensive experience in railroad at-grade crossings inspections, and the pre-engineering planning/drafting of at-grade crossings. As an inspector, his core responsibilities will be photographing railroad crossings and gathering the relevant characteristics and data for roadway, signage, signals, gates, vicinity and others, as necessary.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/22 – Ongoing	**MnDOT, Rail Grade Crossing Inspections, Statewide MN.** *Field Inspector.* This project involves field inventory and photograph highway railroad grade crossings using Collector GIS app to keep MnDOT's data current. Inventory includes confirmation of physical roadway, rail and warning device features, sight line assessments, and site photographs. In coordination with other inspectors, Hadi is inspecting 650+ crossings in the Twin Cities metro area as well as rural areas in northern and western Minnesota.
04/23 – 05/23	**CPKC Railway, 2023 Culvert Inspection, Statewide MS.** *Inspector.* HDR was the inspection lead for mainline track culverts on the KCS network. As one of the inspectors/coordinators, Hadi inspected approximately ~170 culverts in an 8-day 200-mile trip across a CPKC mainline track (from Meridian to Vicksburg).
08/22 – 09/22	**BNSF Railway, Needles Third Main Track (3MT) Expansion, Needles, CA.** *Field Coordinator/Inspector.* HDR provided construction management services for the Needles 3MT Expansion. The project is located at the Needles subdivision, between the West Needles MP 580.1 and East Goffs MP 609.3 control points. Hadi provided daily site monitoring and inspection reports, on-site safety audits, periodic office or field project meetings, as-needed utility and outside agency coordination, contractor and sub-contractor resolutions and scope of work validations, coordination with BNSF, meeting/field documents and details, and various other field and construction management related requirements.
05/24 – 09/24	**Metropolitan Council, Metro E Line Bus Rapid Transit (BRT), Minneapolis/Edina, Statewide MN.** *Field Coordinator/ Inspector.* The project consisted of design and construction oversight services for the METRO E Line Arterial BRT project from the Southdale Transit Center, along Hennepin Avenue, to University/4th Street. Hadi assisted in the inspection/oversight of signal, communications, lighting, and electrical plans for multiple stations. He also assisted in the inspection/oversight of bituminous asphalt and concrete pavement. He documented any irregularities during construction and the quantified/tracked construction elements.

Firm employed by: **HDR Engineering, Inc.**					
Name	**Rhys Bellman**			Years of relevant experience with this employer	2
Title	GIS Analyst			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			MBA / 2026 / Business Administration BS / 2022 / Environmental Sciences		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Inventory Updates / Implement methodology for inventory updates and maintain compatibility with FRA and DOTD requirements.		

Rhys brings proven experience from 80-plus rail projects for clients such as Union Pacific Railroad, CSX Transportation, and Norfolk Southern, where he standardized inventories, aligned field findings with GIS layers, and streamlined update cycles for faster turnarounds. Rhys has supported Louisiana Department of Transportation and Development (LADOTD) on prior projects and understands the data structures, reporting cadence, and coordination needed to keep inventories accurate and actionable.

Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/24 – 08/24	**CSRS, Louisiana West Bank Relocation, Gretna, LA.** *GIS Analyst.* Rhys supported the alternatives analysis for the proposed relocation of the line. He developed and implemented integrated CAD-GIS workflows that enabled the design team to evaluate potential impacts of each alternative in near real time through an accessible web-based mapping application. This approach allowed HDR to quickly assess environmental considerations, optimize decision-making, and reduce overall project costs.
01/24 – 05/26	**TxDOT Houston, North Houston Highway Improvement Project (NHHIP) Segment 3 General Engineering Consultant (GEC), Houston, TX.** *GIS Analyst.* The NHHIP Segment 3 project consists of the reconstruction of 12.3 miles of I-69, I-10, I-45, and SH 288. Rhys established and maintained a GIS system to track parcels requiring acquisition and demolition, centralizing and standardizing parcel status information throughout the project lifecycle. This system was supported through ArcGIS Dashboards and webhook integrations between Excel and ArcGIS Online, enabling stakeholders to submit and access updates through multiple channels.
08/25 – 09/25	**TxDOT Dallas, Pre-Construction Notification WA 3, Rockwall, TX.** *GIS Analyst.* Rhys conducted extensive data mining across large DGN data directories to identify and delineate project limits. He developed robust field mapping databases to support multiple delineation projects throughout the TxDOT Dallas District, confirming efficient and consistent data collection. Following field efforts, Rhys organized and processed the collected data, created detailed aquatic feature datasets, and produced cartographic deliverables that supported regulatory documentation.
04/24 – 06/25	**LADOTD, Baton Rouge to New Orleans Passenger Rail Env, Baton Rouge to New Orleans, LA.** *GIS Analyst.* The New Orleans–Baton Rouge passenger rail is a proposed inter-city passenger train service along the I-10 corridor. Rhys compiled and curated hundreds of relevant datasets to support environmental teams and key stakeholders in evaluating project impacts and informing planning decisions. Rhys also developed a high-resolution digital terrain model (DTM) derived from USGS Lidar and assembled aerial imagery, providing the design team with basemaps to support engineering and design development.

Firm employed by: **HDR Engineering, Inc.**					
Name	**Sara Clark, PE**			Years of relevant experience with this employer	1
Title	Principal Rail Planning Manager			Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization			MS / 2001 / Civil Engineering BS / 2000 / Civil Engineering		
Active registration number / state / expiration date			**Professional Engineer #18160** / KS / April 30, 2028		
Year registered	2004	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Prioritization / Oversee development of prioritization methodology and implementation, validate screening results, and confirm compatibility with FRA and DOTD requirements for highway/rail safety **(Meets MPR 4)**		

Sara has 25 years of experience leading multidisciplinary freight and passenger rail infrastructure projects and serves as HDR's Principal Rail Planner. Sara has extensive expertise in grade crossing safety and operations, including diagnostic reviews, risk-based prioritization, and the evaluation of improvement alternatives such as closures, consolidations, and grade separations. She applies data-driven analysis to assess crossing performance, identify safety risks, and develop targeted investment strategies that enhance mobility and reduce conflicts between rail and roadway users. In her previous role with the Federal Railroad Administration (FRA), Sara coordinated internal and external stakeholders to facilitate the restoration of Amtrak's Mardi Gras Gulf Coast passenger rail service, overcoming logistical and regulatory challenges. As a Senior Project Manager in FRA's Railroad Development Office, she led multi-disciplinary teams of subject matter experts to advance over $350 million in federal rail infrastructure investments to enhance safety and efficiency at ports, along corridors, at grade crossings, and stations. She actively contributes to the Transportation Research Board, including AR016 Standing Technical Committee on Rail Safety Management Systems supporting research, policy development, and industry best practices in rail safety.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/25 – 06/26	**Missouri Department of Transportation, Amtrak and MNA Grade Crossing Improvement Program Support, Statewide MO.** *Project Manager.* In 2023, HDR led a study to provide an independent data-driven approach for recommendations to enhance safety at grade crossings on the Missouri & Northern Arkansas shortline in western Missouri and on the Amtrak River Runner and Texas Eagle corridors. That work prioritized improvements at the public at-grade crossings using a data-driven approach based on inventory and field collected data. HDR's current scope of work focuses on implementation of the grade crossing improvement recommendations. **Sara evaluated the list of highway-rail grade crossing candidates** and verified that the crossings met MoDOT and the railroad characteristics for improvements. Sara is coordinating with the railroad owners to secure executed agreements for crossing modifications. Sara is coordinating with railroad and local road authority and organizing field diagnostics, railroad plan submittals and exhibits needed to develop and execute the agreements.
08/25 – Ongoing	**Kansas Department of Transportation (KDOT), Kansas State Rail Plan, Statewide KS.** *Senior Technical Advisor.* Sara is guiding development of data-driven strategies for freight and passenger rail. She directed stakeholder coordination with KDOT, rail operators, and local agencies; synthesized technical analyses into clear, implementable recommendations; and confirmed the plan met federal requirements to position the state for competitive funding opportunities. Sara guided the evaluation of rail safety data to identify areas of enhanced risk and to align project priorities with statewide transportation goals.

01/21 – 02/22	**KDOT, Kansas Highway-Rail Grade Crossing State Action Plan, Statewide KS.** *Lead Engineer.* Sara guided the analysis and deliverables developed to identify strategies and project solutions at over 5,000 highway-rail grade crossings in Kansas for the FAST Act Section 11401 compliant State Action Plan (SAP). Sara led the development of the Kansas Grade Crossing State Action Plan by **evaluating the statewide rail corridor network** to identify high-risk locations and prioritize improvements. Sara applied a data-driven, systemwide approach incorporating exposure, crash history, operational impacts, and emergency response needs to recommend targeted safety strategies, including low-cost enhancements, crossing consolidations, and grade separations. She collaborated with state agencies, local jurisdictions, and railroad stakeholders to align priorities and advance implementable, fundable solutions.
01/21 – 02/22	**Missouri Department of Transportation, Missouri Highway-Rail Grade Crossing Action Plan, Statewide MO.** *Project Manager.* Sara led the development of the FAST Act Section 11401 compliant State Action Plan (SAP) for Missouri. Sara **evaluated Missouri's more than 6,500 highway-rail grade crossings to identify strategies to target safety enhancements** over a four-year period. Sara used data from the U.S. DOT Crossing Inventory and FRA safety and blocked crossing databases combined with input from railroad, agency and public stakeholders to identify corrective actions and project solutions to identified crossing deficiencies. ArcGIS StoryMap and Survey123 tools were used to gather statewide public input and targeted stakeholder input from public agencies and railroads.
03/18 – 02/21	**TxDOT Rail Division, Metroplex Freight Mobility Study, Dallas-Fort Worth, TX.** *Project Manager.* Sara **led the comprehensive analysis of the freight and passenger rail transportation network** in the 16-county Dallas Fort Worth area to identify mutually beneficial mobility solutions. The mobility solutions addressed freight rail performance and highway congestion in the Metroplex and included projects on the rail and highway networks. Sara led the assessment of over 2,000 highway-rail grade crossings to prioritize crossings with mobility challenges based on quantitative screening methodology and stakeholder input. Prioritization of crossing improvements were based on the Texas priority index which evaluates factors related to traffic volume, train volume, incident history, train speed, warning devices and other factors. Mobility concepts included grade separations, crossing consolidations, and transportation network solutions.
01/17 – 05/18	**TxDOT Rail Division, Central Texas Freight Mobility Study, Austin, TX.** *Project Manager.* Sara **led the evaluation of over 400 highway-rail grade crossings** in five Central Texas counties to develop a program of projects to improve mobility and reduce vehicular delays **along the Union Pacific railroad corridor.** Sara used data tracked in the TxDOT Texas Railroad Information Management System (TRIMS) database to evaluate quantitative data on each crossing to screen each crossing. Qualitative information from stakeholders was included in the assessment of each crossing. Sara used the quantitative and qualitative information to develop a candidate list of grade crossings to evaluate for improvement concepts. She supported the design of concepts to evaluate the technical feasibility.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Eric Frostestad, PE**	Years of relevant experience with this employer	12
Title	**Professional Associate,** Senior Railroad Project Engineer	Years of relevant experience with other employer(s)	21

Degree(s) / Years / Specialization			BS / 1993 / Civil Engineering
Active registration number / state / expiration date			**Professional Engineer # 32737 / LA** / 3/31/2027
Year registered	2006	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Profile Evaluation/Prioritization / Oversee implementation of roadway profile evaluation and prioritization and confirm capability with FRA and DOTD requirements. **(Meets MPR 3 and MPR 4)**

Eric has over 30 years of transportation and civil engineering experience on rail, highway, street, traffic, site, and drainage projects. He has served as project manager and project engineer on railroad-related projects for Class 1 Railroads, terminal railroads, and industry-track projects. Eric has been involved with the planning, design, and construction of several railroad projects including capacity improvement projects, grade separation projects, intermodal and automotive facilities, industry support tracks, and track rehabilitation projects. As an AREMA Committee Chair and Sub-Committee Chair, Eric has managed the development and revision of AREMA Guidelines.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/24 – Ongoing	**Kansas Department of Transportation, Section 130 Coordination, Various Locations KS.** *Project Manager.* Eric **was in responsible charge of highway/rail crossing safety improvements** funded with KDOT's Section 130-Program. Eric oversaw the forming and prioritizing railroad crossing improvements as part of KDOT's Section 130 Program. This is an annual Statewide effort gathering information and creating a priority list of railroad crossings for the Section 130 Program. A list of eligible crossings from KDOT's Crossing Inventory Information Management System (CIIMS) was utilized. Eric oversaw the utilization of the FRA grade crossing database for identifying crossings whose signal systems were obsolete or did not have constant warning train detection. Eric scheduled and conducted diagnostic on-site review meetings with railroad representatives and local public authority representatives to determine the type of improvements to be installed. Eric checked the KDOT Diagnostic Team On-Site Report for each railroad crossing that was reviewed. The report includes the existing conditions of the at-grade crossing and notes the recommended improvements by the Diagnostic Team.
01/16 – 03/18 10/20 – 07/22	**Oklahoma Department of Transportation, Oklahoma 2018 State Rail Plan and 2022 State Rail Plan (SRP) Update, Oklahoma City, OK.** *Project Manager.* The primary purpose of the SRP is to serve as a statewide long-range rail planning document, fully integrated with other state planning initiatives. The SRP allows Oklahoma to implement an efficient and effective approach for merging passenger and freight rail elements into the larger multimodal and intermodal transportation framework. The heart of the plan is a State Rail Vision and a supporting program of proposed public rail investments that will result in quantifiable economic benefits to Oklahoma. The SRP incorporates initiatives from the federal and state levels, aligning the priorities of Oklahoma's rail stakeholders. HDR directed meetings with the Oklahoma rail stakeholders and developed an online public meeting which presented the SRP and provided an opportunity to receive comments. The Plan provides a vision for integrated freight and passenger rail planning in the state, unifying the common interests of the various

	stakeholders within Oklahoma. Eric managed the rail plan development and assisted in conducting the rail stakeholder meetings.
10/19 – Ongoing	**Southeast Arkansas Economic Development District (SEAEDD), Southeast Arkansas and Northeast Louisiana Multimodal Freight Corridor Improvement Project, McGehee, AR to Tallulah, LA.** *Project Manager.* HDR assisted SEAEDD and their partners (including Lake Providence Port, Madison Parish Port, and NLA Railroad) in obtaining a FY 2019 INFRA Grant for $10.4 million for rehabilitating 91.3 miles of short line railroad paralleling the Mississippi River from McGehee, AR to Tallulah, LA. In addition to project management, engineering oversight, construction management, and field inspections; **Eric evaluated highway/rail safety corridor improvements** and participated in diagnostic on-site review meetings for highway/rail crossings in Arkansas.
02/23 – Ongoing	**LADOTD, Baton Rouge to New Orleans Intercity Passenger Rail Environmental Study, Baton Rouge to New Orleans, LA.** *Rail Engineer.* HDR is working on completing pre-NEPA studies for an 80-mile passenger rail corridor on an existing freight rail corridor. The project team has currently completed Step 1 of the FRA Corridor ID Program including a data gap analysis, preliminary stakeholder engagement, and 10% design of the preferred alternative from the 2023 Feasibility Study. Eric **recommended rail safety corridor improvements** including the at-grade highway/rail crossing improvements and closures needed to operate passenger rail service on the line.
01/07 – 01/09	**BNSF, Fort Scott Sub Grade Separation Project, Olathe, KS.** *Rail Technical Lead.* Eric **evaluated the highway/rail at-grade crossings on the Fort Scott Subdivision through Olathe, Kansas.** Eric determined the BNSF Fort Scott Subdivision could be elevated through Olathe, KS, and eliminated four at-grade crossings based on railroad operations and roadway characteristics and importance of safety.
01/06 – 01/08	**Kansas City Southern Railway (KCSR), Victoria to Rosenberg Revitalization, Victoria to Rosenberg, TX.** *Rail Technical Lead.* As part of reopening the 85-mile Victoria to Rosenberg rail line for the KCSR, **Eric evaluated the highway/rail at-grade crossings through this corridor.** Eric conducted and led the thorough field evaluation of existing conditions to evaluate the need for replacements and upgrades to track, bridges, substructure, road crossings, and signals. Eric coordinated with the Texas Department of Transportation, County, and Local Jurisdictions for improving and reactivating the at-grade crossings.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Brett Geesey, PE**	Years of relevant experience with this employer	19
Title	**Vice President,** Louisiana/Mississippi Area Operations Manager	Years of relevant experience with other employer(s)	0

Degree(s) / Years / Specialization			ME / 2006 / Ocean Engineering BS / 2005 / Mechanical Engineering
Active registration number / state / expiration date			**Professional Engineer #35172 / LA** / March 31, 2028
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Principal in Charge / Oversee project execution and resource management **(Meets MPR 1)**

Brett serves as HDR's Louisiana/Mississippi Area Operations Manager, overseeing the overall operations of HDR's offices in Louisiana and Mississippi. He manages a team of engineers and scientists and has experience managing and designing various engineering projects. He has also implemented projects ranging from feasibility studies through applied design, prepared detailed plans and specifications, and provided construction administration.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/22 – 05/24	**LADOTD, Bridge Preservation IDIQ – LA 577 at I-20 Repair PS&E, Waverly, LA.** *Project Principal.* HDR is providing as-needed services for various bridge preservation-related services. Task orders have included repair plans for a bridge damaged during a vehicular accident and a task order to develop an optimization tool for developing layout and bridge configuration. For each task order, Brett works with the task order manager to develop the scope, schedule, and budget, and to identify the resources required to deliver it.
08/23 – Ongoing	**Port of New Orleans, Movable Bridge Inspection On-Call Contract, New Orleans, LA.** *Project Principal.* HDR provides as-needed inspection and load-rating services for two bridges under the Port of New Orleans' authority. Task orders have included annual inspections for the Seabrook and Almonaster bridges. For each task order, Brett works with the task order manager to develop the scope, schedule, and budget, and to identify the resources required to deliver the task order.
07/19 – 03/24	**LADOTD, Statewide In-Depth Complex Bridge Inspections, Statewide LA.** *Project Principal*. HDR is a subconsultant supporting LADOTD's in-depth inspections of complex bridge structures. Brett worked with HDR's task order managers to review the scope, schedule, and budget, and coordinated the required resources to complete the task orders.
05/21 – Ongoing	**Sewerage and Water Board of New Orleans (SWBNO), Internal and External Communications Support, New Orleans, LA.** *Project Principal*. HDR provides SWBNO with communications support, including communications planning, protocol development, crisis communications support, content development, graphic design, website development, social media strategy, event coordination, and stakeholder management. Brett works closely with the project manager to provide the project with resources and supports internal project controls such as contracting, cost controls, and scheduling.
07/23 – 06/24	**Baton Rouge Water Company, Utility Network Data Migration, Baton Rouge, LA.** *Project Principal*. HDR assisted the Baton Rouge Water Company with migrating its existing utility network data into ESRI's UN data model. Brett assisted the project manager in providing resources and overall project delivery.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Brann Greager, PE**	Years of relevant experience with this employer	4
Title	Senior Data Solutions Manager	Years of relevant experience with other employer(s)	29

Degree(s) / Years / Specialization			Bachelors / 1993 / Engineering Science
Active registration number / state / expiration date			Professional Engineer #0036329 / CO / October 31, 2027 Project Management Professional #1580369 / CO / November 10, 2027 Certified GIS Professional #161168 / CO / January 25, 2028
Year registered	2002 (PE)	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Data Management / Oversee development of GIS application, validate compatibility with inventory updates methodology, and confirm compatibility with FRA and DOTD requirements. **(Meets MPR 5)**

Brann has over 30 years of experience delivering GIS, data management, and software solutions with an emphasis on transportation agencies nationwide. As GIS/Data Task Manager, he brings extensive experience designing and implementing enterprise GIS and relational database systems to support large-scale asset inventories, including railroad crossing programs. Brann has led development of statewide railroad crossing inventory and management systems for Texas Department of Transportation (TxDOT), Georgia Department of Transportation (GDOT), Florida Department of Transportation (FDOT), and Oklahoma Department of Transportation (ODOT), overseeing the inventory and analysis of more than 25,000 crossings and supporting advanced safety analysis and prioritization efforts. His expertise includes data integration, system architecture, spatial analytics, and application development, with a focus on aligning complex datasets with federal requirements and streamlining reporting workflows. Brann is recognized for guiding multidisciplinary teams through complex data and technology initiatives, confirming quality deliverables, effective stakeholder coordination, and long-term system sustainability.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/21 – 03/22	**TxDOT Rail Division, Statewide Rail Crossing Inventory Update, Statewide TX.** *TRIMS Database SME***.** HDR supported TxDOT in data collection, photo documentation, data management, and mapping of public highway-rail grade crossings statewide. The collected data was used to update the TxDOT TRIMS database and the FRA Grade Crossing Inventory. Brann helped **design and program the inventory relational database** and procedures to match TxDOT's railroad crossing inventory database system and provided QA/QC to confirm HDR met TxDOT-specific procedures.
04/18 – 08/19	**ODOT, Statewide Highway/Rail Crossing Analysis Inventory and Management System, Statewide OK.** *Project Manager.* Brann directed staff and subconsultants and led the design and implementation for computer application, including **programming the system relational database.** The project included an inventory of public and private railroad crossings in the state, development of field data collection tools, and GIS-enabled inventory management system. The inventory management system built on experience gained in the TxDOT statewide inventory, employs web-based GIS technology, SQL Server, and SQL CE database technology, and applications built using Visual C .NET. The system provides tools for management of inventory data, accidents, railroad crossing projects, and priority index rankings.
01/10 – 12/13	**ODOT, Professional Services for Rail Planning, Statewide OK.** *Contract Manager.* Brann directed staff and subconsultants for numerous projects related to rail planning for ODOT on a multi-year basis. Projects performed under the

	contract included GPS and video inventory of state-owned rail, grant application preparation, field inspection and diagnostics, and rail planning activities.
03/11 – 03/14	**TxDOT, Texas Railroad Information Management System (TRIMS) Project, Statewide TX.** *Project Manager.* Brann was the original developer of the system database and user interface and led the development team for a suite of software for the management of railroad crossing inventory, safety, and project data. He served as the Product Owner of the system in charge of requirements and priorities for development and **designed and programmed the system relational database.** The TxDOT TRIMS suite includes a central database and three applications: FieldTRIMS: a GPS and GIS-enabled field data collection tool; TRIMS: a powerful GIS-based inventory, prioritization, and project management tool; and WebTRIMS, a web-based tool that allows TxDOT to share crossing-related data with partners outside of the Department.
03/17 – 10/18	**California Public Utilities Commission, Stop-Yield Analysis and Inventory at Passive Railroad Crossings, Statewide, CA.** *Project Manager.* Brann led the design and implementation of computer applications. The project included an inventory of public passive railroad crossings in the state, sight distance evaluation for STOP and YIELD sign recommendations, development of field data collection tools and GIS-enabled inventory management system.
04/16 – 06/17	**Georgia Department of Transportation, Rail Assessment, Inventory, and Location System (G.RAILS), Atlanta, GA.** *Project Manager.* Brann served as product owner and database designer in the customization and implementation of a suite of software for the management of railroad crossing inventory, safety and project data. The G.RAILS suite includes a central database and two applications: FieldRAILS: a GPS and GIS-enabled field data collection tool, and OfficeRAILS: a powerful GIS-based inventory, prioritization, and project management tool. G.RAILS includes an Inventory/Safety module and a planned Project Tracking module.

Firm employed by: **HDR Engineering, Inc.**					
Name	**Meagan Harris**			Years of relevant experience with this employer	5
Title	LA-MS Strategic Communications Team Lead			Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization			BS / 2018 / Mass Communication		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Strategic Communications / Provide information for public meetings with local governments, prepare presentations and handouts for public meetings and partnering railroads.		

Meagan leads HDR's Strategic Communications team in Louisiana/Mississippi, which is part of a full-service public relations firm and creative studio within HDR. With a background in branding and advertising, Meagan understands the art of executing campaigns with tailored messages that engage and motivate various target audiences. She has helped private and public clients employ data-driven strategies, carefully craft holistic messages, build effective external and internal communication programs, and launch new communication tools.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/21 – 07/22	**LADOTD, Strategic Highway Safety Plan (SHSP), Statewide LA.** *Quality Reviewer.* HDR developed LADOTD's 2022 SHSP update using critical data and input from various Regional Safety Coalitions and Emphasis Area Teams throughout Louisiana. Meagan reviewed the designed version of LADOTD's 2022 SHSP, which involved planning client review meetings, managing client comments, and coordinating with the designer to verify edits were addressed.
12/25 – Ongoing	**New Orleans Regional Transit Authority (RTA), Streetcar Modernization Master Plan, New Orleans, LA.** *Senior Strategic Communications Coordinator.* Meagan collaborates with RTA, the HDR team, and subcontractors to develop strategic public outreach plans for the Master Plan. The plan recommends a wide variety of communication tactics, ranging from grassroots outreach and pop-up events to formal public meetings and digital marketing. Given the streetcar is a historic symbol of the New Orleans community, Meagan and the HDR team are considering key audiences, both internal and external, as well as potential opposition to the modernization effort and strategically engaging them. Meagan is working with the client to finalize and implement the plan.
05/25 – Ongoing	**Bayou Vermilion District (BVD), Master Plan, Lafayette, LA.** *Senior Strategic Communications Coordinator.* Meagan developed a public and stakeholder engagement plan that set the framework for public involvement throughout BVD's master planning effort. Based on secondary research and community analytics (via publicly available data in partnership with HDR's Data Solutions team), Meagan crafted a data-driven, strategic approach to engage multiple stakeholder groups requiring varying levels of engagement and incorporated their feedback into the Master Plan.
08/21 – 08/25	**Port of New Orleans, Louisiana International Terminal, St. Bernard Parish, LA.** *Strategic Communications Coordinator.* HDR was an extension of the Port NOLA communications team, focused on the politically charged Louisiana International Terminal project. Meagan created and implemented communications plans, crafting an earned media strategy, supporting robust public outreach efforts, and managing NEPA public comments and responses. Meagan also oversaw the development of a project website and planned and implemented three series of public open houses with supplemental online versions, going above and beyond NEPA public engagement requirements.

05/21 – 05/26	**Sewerage & Water Board of New Orleans (SWBNO), Communication Services, New Orleans, LA.** *Project Manager.* Meagan provided comprehensive internal and external communications support to New Orleans' water, wastewater, and drainage utility. She delivered a broad range of services, including communications strategy, customer education, content development and copywriting, graphic design, crisis communications support, media relations, elected official outreach, website content creation, ADA compliance advising, event coordination, and employee communications. Meagan also developed and implemented communications strategies for the new online customer portal platform and for the initial stages of SWBNO's lead service line replacement program.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Kalyan Javvaji**	Years of relevant experience with this employer	18
Title	Senior GIS Analyst	Years of relevant experience with other employer(s)	4

Degree(s) / Years / Specialization			MS / 2002 / City and Regional Planning BS / 1999 / Architecture
Active registration number / state / expiration date			N/A
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities			Data Management / Develop GIS application, implement GIS structure for compatibility with inventory updates methodology, and maintain compatibility with FRA and DOTD requirements. **(Meets MPR 5)**

Kalyan's technical experience includes spatial analysis, relational database design and management, map production, editing, Model Builder tool development, Python and Arcade scripting, ArcGIS Online, web application configuration, creating dashboards, creating Power BI reports and applications, setting up mobile GIS data collection systems such as ArcGIS Fieldmaps and Survey 123 Applications.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21 – 12/21	**TxDOT Rail Division, Statewide Rail Crossing Inventory Update, Statewide TX.** *GIS Task Lead.* Kalyan provided GIS support for this project, which involved updating railroad crossings. He performed spatial analysis, developed python and arcade scripts for data analysis and configuring web applications, **programmed and maintained relational databases,** and set up and maintained the ArcGIS Enterprise environment. He also configured web applications for data collection and updates and created dashboards and quality control applications.
6/23 – 12/23	**Tyler Area MPO, Railroad Inventory and Assessment, Tyler, TX.** *GIS Task Lead.* HDR conducted a railroad inventory of the existing and former railroads infrastructure, including crossings, within Smith County. Kalyan provided GIS support by leading requirements gathering, conducting desktop spatial analysis, **programming relational databases,** configuring Field Maps, and developing dashboards.
07/19 – 12/20	**Capital Metro Transportation Authority, Project Connect, Austin, TX.** *GIS Analyst.* Kalyan established GIS data standards and spatial analysis, worked with various data formats, produced maps, maintained the enterprise environment, **programming relational databases,** developed python and arcade scripts, setup ArcGIS HUB, and configured several web applications including dashboards, StoryMaps, WebApp builder Apps, and Power BI Reports.
10/18 – 07/20	**TxDOT, Pedestrian Access Inventory (PAI), Statewide, TX.** *GIS Task Lead.* Kalyan provided GIS support for data collection along TxDOT on-system roads in more than 60 Texas counties. He developed and implemented data collection strategies, developed GIS work plans, and created dashboards to help managers track progress. Kalyan also programmed python and arcade scripts for data analysis and **programmed and maintained relational databases.** He also configured QC apps to help verify data.
01/15 – 07/16	**City of Austin, Pavement Information Management Systems (PIMS), Austin, TX.** *GIS Analyst.* HDR developed an ArcGIS Model Builder tool that analyzed approximately 300,000 segments of absent and existing sidewalks and prioritized the sidewalks based on their proximity, ¼- and ½-mile buffer distances, to existing infrastructure and private/public spaces. The resulting data was then incorporated within the City of Austin's master planning project. The model was developed in

	close conjunction with City of Austin staff with the goal of the city staff being able to run the tool by themselves in the future. Kalyan worked on model builder tool design and development, programmed python and arcade scripts, and **programmed and maintained relational databases** and produced maps.
03/23 – 04/26	**Cook County, Storm Sewer Data Creation, Cook County, IL.** *GIS Manager.* Kalyan created GIS data based on the existing plan documents that include stormwater features. Kalyan updated feature services and maps in Cook County's AGOL Environment, **programmed and maintained relational databases,** and set up ArcGIS Geodatabases in HDRs Enterprise Environment facilitating multiple users to access and edit data simultaneously.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Wesley Jacobs, PE**	Years of relevant experience with this employer	11
Title	Area Transportation Business Group Manager / **Associate Vice President**	Years of relevant experience with other employer(s)	17

Degree(s) / Years / Specialization			BS / 1998 / Civil Engineering
Active registration number / state / expiration date			**Professional Engineer #30774 / LA** / September 30, 2026
Year registered	2003	Discipline	**Civil Engineering**
Contract role(s) / brief description of responsibilities			Contract Manager / Oversee project execution and resource management **(Meets MPR 2)**

Wes has over 28 years of expertise in project management, civil and structural design, including bridges, sign structures, and urban/rural roadway/drainage design. Through this experience, he has gained a solid foundation in project/contract management and design, driven by the complexity of projects completed, including CMAR and D/B (with estimated construction costs exceeding $10 billion). His responsibilities have included contract management, independent technical review, plan production, structural design, seismic review, forensic analysis, civil design, geometrics, drainage design, structural inspection, specification development, cost estimation, bridge rehabilitation, and project management.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/22 – 05/24	**LADOTD, Bridge Preservation IDIQ - LA 577 at I-20 Repair PS&E, Waverly, LA.** *Project Manager & Engineering Lead*. Task orders were issued for inspection, rehabilitation design, and load rating of the LA 577 precast concrete girder overpass in North Louisiana, which was damaged by a dump truck collision. The scope included emergency services for inspection, load rating, and PS&E for the demolition of the existing span and the redesign of a new AASHTO T3 PPC span. Wes led the emergency inspection and oversaw the engineering design of the PS&E. He also managed scope, schedule, budget and staffing resources.
04/25 – Ongoing	**LADOTD, Contract 5 for Movable Bridges (6), Lafayette, Calcasieu, Cameron, Saint Martin, Vermillion Parish, LA.** *Project Manager.* Wes led the movable bridge multi-disciplinary team (structural, mechanical, electrical, and architectural) to develop and perform NBIS In-Depth and routine inspections/reports, LRFR load ratings, scope of work/report development to rehabilitate six vertical lift bridges: Old Abbeville, Abbeville Bypass, Parks, Milton, West Fork, and Ellender. He managed scope/schedule/budget and coordinated subconsultants and teams to inspect the six bridges across two mobilizations, including rope-access inspectors, and oversaw the development of the inspection/load rating reports.
11/19 – 03/24	**LADOTD, Statewide In-Depth Complex Bridge Inspections IDIQ, Statewide LA.** *Project Manager.* Wes led the movable bridge main span inspections (fieldwork and report preparation) of the Jackson Street Lift Bridge spanning the Red River and the lift bridges spanning Teche Bayou. Wes managed the scope/budget and oversaw the team that performed structural, mechanical, and electrical inspections of the towers, main span truss, substructure, and machinery, using rope access and manlift methods for in-depth inspections. Additionally, over 25 more bridges were inspected as part of the contract, including seven steel girder swing span bridges in multiple parishes including steel swing spans, concrete slab and timber bridges.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Russell McNaught, PE**	Years of relevant experience with this employer	22
Title	Rail Section Manager	Years of relevant experience with other employer(s)	5

Degree(s) / Years / Specialization			Bachelors / 1998 / Civil Engineering
Active registration number / state / expiration date			Professional Engineer #0047826 / LA / September 30, 2027
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Railroad Coordination/QC / Coordinate with Louisiana's Class I and shortline railroads for project inventory accuracy. Work with the project manager to develop and implement the quality management plan.

Russell is a senior railroad project manager with experience working on railroad projects for Class 1, short line, freight, and transit railroads. Russell's understanding of operations, maintenance, and the initial capital cost of projects allows him tailor solutions unique to each project's requirements. Russell brings experience gained from multiple types of rail projects, from planning to construction. He understands how much detail is required to understand if a concept is feasible and can identify fatal flaws early in the project for efficient rail alternatives analysis.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/21 – Ongoing	**City of Houston, North Canal, Houston, TX.** *Railroad Coordination and Track Design.* Russell led the coordination between the City of Houston and Union Pacific Railroad (UPRR) for the installation of a 180' long multi-span structure on UP's Houston Main Subdivision. The shoofly design required a preliminary alignment study to determine the structure location so that future UP development would not be impacted. Russell informed the City of UPRR's possible reactions to the City's design approach so they could incorporate possible solutions. This approach ultimately saved time and allowed the City to better understand and mitigate cost impacts.
07/24 – Ongoing	**City of Gretna, Louisiana West Bank Relocation, Gretna, LA.** *Railroad Coordination and Track Design.* Russell led the railroad coordination and preliminary track design of a new rail alignment that connects the Weswego Subdivision to the Belle Chase Subdivision bypassing the notorious sections of street running freight trains down Madison Street in Gretna. This project furthers the design developed in the 2018 Environmental Impact Study to better understand the engineering details and coordinate the new alignment with the operator, New Orleans Gulf Coast Railroad (NOGC) and the Right of Way owner, UPRR. Russell coordinated with the project owners, City of Gretna, NOGC and UPRR on design decisions.
12/19 – 07/25	**TxDOT, Skinner Road Underpass, Cypress, TX.** *Railroad Coordination and Track Design.* Russell led the railroad coordination of the new underpass along UPRR's Eureka subdivision. This underpass will provide greatly needed relief for local residents who travel across Eureka's subdivision as there are limited grade crossings and most are at-grade. The project is funded by a local MUD district, administered by TxDOT and required approvals by Union Pacific. The coordination was more involved than most projects, but was successfully delivered, and is currently under construction. Russell also developed the track design and navigated the project design approval process.
01/24 – 06/25	**City of Bay City, Quiet Zone, Bay City, TX.** *Project Manager.* Russell coordinated the Notice of Intent (NOI) development for both the UP Angleton Subdivision and the BNSF Bay City Subdivision for the City to decide how to proceed. The City decided to only pursue the quiet zone for the UPRR Angleton subdivision. Russell coordinated the required submittals to UPRR, BNSF, FRA, TxDOT, Matagorda County to legally process the quiet zone application.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Chris Ryan, PE**	Years of relevant experience with this employer	6
Title	Senior Transportation Planner	Years of relevant experience with other employer(s)	15

Degree(s) / Years / Specialization			Masters / 2011 / Transportation Planning Bachelors / 2005 / Civil Engineering
Active registration number / state / expiration date			**Professional Engineer #51334** / MN / June 30, 2026
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Inventory Updates / Oversee methodology and implementation of inventory updates and confirm compatibility with FRA and DOTD requirements. **(Meets MPR 4)**

Chris focuses on the development of rail and freight plans and studies at the state, regional, city, and corridor levels. He has been evaluating highway-rail safety corridors and crossing projects for more than five years. This includes statewide crossing assessments for grade crossing state action in Oklahoma, Minnesota, Ohio, Mississippi, Wyoming, and South Dakota. It also includes corridor-specific crossing safety reviews such as the Hinckley Rail Corridor Safety Study in Minnesota, the Whitefish, Montana Grade Crossing Safety Study, and the Waukesha/Wauwatosa, Wisconsin Grade Crossing Safety Studies. Chris is a national expert in quiet zone feasibility studies, including the associated risk evaluations and diagnostic field reviews. Chris has developed multiple methodologies for analyzing detailed data sets including USGS elevation data, truck GPS data, demographic information, economic statistics, and transit operational data. His recent work has focused on using a combination of custom data and stakeholder input to develop scoring metrics to prioritize transportation system investments.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/21 – 06/26	**Minnesota DOT, Rail Grade Crossing Inspections, Statewide MN.** *Project Manager.* HDR provides rail grade crossing field inspection and data collection services for MnDOT for the purposes of updating the USDOT grade crossing inventory. Chris is leading a team of five to ten field inspectors, including training staff on field data collection processes and overseeing the quality control and review process. Throughout this contract, Chris and his team have collected data at Minnesota’s 4,000+ public grade crossings at least once with crossings required to be inspected once every three years.
02/25 – Ongoing	**Wyoming DOT, Wyoming State Rail Plan and Grade Crossing Action Plan, Statewide WY.** *Grade Crossing Action Plan Task Lead.* HDR assisted WYDOT with the development of the statewide rail plan, including a chapter devoted to an updated State Action Plan for Grade Crossing Safety. Chris **led a detailed analysis of grade crossing data for the 388 public grade crossings on multiple corridors in the state for highway/rail crossing safety.** This included a new and novel approach using USGS elevation data to evaluate vertical profile deficiencies. This work has helped WYDOT to identify grade crossing safety issues and prioritize crossing investments within the larger State Rail Plan.
05/21 – 09/22	**Oklahoma DOT, Oklahoma State Action Plan, Statewide OK.** *Project Manager.* HDR assisted ODT with the development of a federally mandated action plan for highway/rail crossing safety. Chris **led the detailed data analysis of highway-rail corridor grade crossing data**, interviews with stakeholders including railroads, roadway authorities, and the public, and the development of final recommendations to improve grade crossing safety in the state. Key areas of need identified through this analysis included specialized approaches for urban vs. rural crossings, rising incidence of vehicles stop or stuck at crossings, and an increase in pedestrian and trespassing incidents.

	Chris also developed a custom hazard ranking and prioritization model based on Oklahoma's unique grade crossing characteristics.
05/18 – 09/18	**City of Clear Lake, Clear Lake Quiet Zone Study, Clear Lake, MN.** *Project Manager.* Chris led a **feasibility study of five public grade crossings in the City of Clear Lake to determine the improvements across the corrido**r necessary to implement a quiet zone. This included a field diagnostic meeting with representatives from the City, MnDOT, and BNSF Railroad. Additionally, Chris coordinated with MnDOT to recommend modifications to a proposed roadway reconstruction project to meet the FRA's quiet zone requirements for safety.
06/20 – 09/20	**City of Mankato, Mankato Quiet Zone Study, Mankato, MN.** *Project Manager.* Chris led a **feasibility study of 14 public and private grade crossings in the city to determine improvements across the corridor** necessary to implement a quiet zone. Chris facilitated a field diagnostic meeting with representatives from the City, MnDOT, UP Railroad, and private owners. The final report included multiple implementation scenarios including a range of focus areas such as highest risk reduction, and highest cost-effectiveness.
11/21 – 07/23	**Saint Louis County, Rail Crossing Study, Saint Louis County, MN.** *Project Mangager.* Chris **led the evaluation of 128 public grade crossings on multiple corridors** under county jurisdiction. The specific focus of this study was identifying candidates for closure or grade separation. Chris facilitated coordination with a study review committee including representatives from the County, multiple cities, MnDOT, BNSF Railroad, and CN Railroad to recommend consensus on prioritization criteria for this effort. The final deliverable included an interactive prioritization dashboard tool as well as conceptual layouts and cost estimates for the top ranked crossing projects. The county is currently in the process of implementing one of the top ranked grade separation projects.
02/23 – 06/24	**Wisconsin DOT, Waukesha/Wauwatosa Grade Crossing Safety Study, Waukesha and Wauwatosa, WI.** *Project Manager.* Chris led this WisDOT-funded study to **evaluate and recommend improvements for two separate rail corridors** in the Cities of Waukesha and Wauwatosa. These cities experienced far higher incident rates involving pedestrians and bicyclists when compared to other urban Wisconsin crossings. Chris facilitated a field diagnostic meeting of the 18 crossings with representatives from both cities, WisDOT, CN and CPKC Railroads, and multiple private stakeholders. The final report included recommendations for multiple pedestrian-focused improvements to improve the visibility of flashing light warning systems and improve pedestrian crossing geometry as well as general vehicular safety improvements.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Nicholas "Nick" Samuelson, PE**	Years of relevant experience with this employer	5
Title	Transportation Engineer	Years of relevant experience with other employer(s)	<1

Degree(s) / Years / Specialization			BS / 2021 / Civil Engineering
Active registration number / state / expiration date			Professional Engineer #157907 / TX / June 30, 2026
Year registered	2025	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Profile Evaluation/Prioritization / Implement roadway profile evaluation and prioritization, including defining design criteria and parameters, and maintain compatibility with FRA and DOTD requirements.

Nick is delivering schematic and full design packages for 23 Class 1 railroad–highway grade crossings. His expertise includes developing complex 3D models to determine grading limits and resolve utility conflicts. Nick is also experienced in drainage system, signing and pavement marking, and erosion control design, with project experience involving coordination across multiple consultants and agencies.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/25 – Ongoing	**City of Tyler, Four Grade Crossings, Tyler, TX.** *Roadway Engineer/Production Lead.* HDR is designing roadway, drainage, and utility upgrades for four UPRR grade crossings in downtown Tyler. Nick facilitated a design criteria meeting after the diagnostic inspection, developed three alternative profiles per crossing, and continues coordinating with the city to minimize utility and property impacts. As production lead, he uses Bentley software to prepare roadway, TCP, and signing/pavement marking plans while managing cross-discipline coordination and adjacent project interfaces.
06/25 – 05/26	**TxDOT Rail Division, At-Grade Crossing Inventory, Midland and Odessa, TX.** *Roadway Engineer/Production Lead.* Nick led the roadway design and schematic plan development for 28 alternatives addressing 19 UPRR highway grade crossings along BI-20. The proposed improvements include profile corrections, traffic signal installations and upgrades, pedestrian facility enhancements, and track crossing surface replacements. HDR coordinated with the TxDOT Area Office, Rail Division, and the cities of Odessa and Midland to deliver a comprehensive design.
06/21 – 10/25	**City of Denton, Hickory Creek Road, Denton, TX.** *Roadway Engineer.* HDR designed a new 1.5-mile, four-lane divided urban arterial between FM 1830 and Riverpass Drive. A major component of the project was a 0.5-mile-long bridge providing grade separation over a CPKC railroad and a FEMA-designated floodplain. Nick contributed to the roadway, drainage, TCP, and signing and pavement marking design efforts.
11/23 – 02/25	**TxDOT Rail Division, College Drive, Texarkana, TX.** *Roadway Engineer/Production Lead.* HDR collaborated with the City of Texarkana, TxDOT Rail Division, and the TxDOT Atlanta District to integrate a pedestrian enclosure design beneath a CPKC railroad bridge into an ongoing pedestrian improvement project. Nick developed the sidewalk and signing/pavement marking designs and produced plans using Bentley MicroStation.

Firm employed by: **HDR Engineering, Inc.**					
Name	**Nathan Spraggins**			Years of relevant experience with this employer	1
Title	Rail Project Manager			Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer #43224 / LA / September 30, 2027		
Year registered	2019	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Prioritization / Develop prioritization methodology and implementation, compile screening results, and maintain compatibility with FRA and DOTD requirements for highway/rail safety.		

Nathan has experience in rail design and project delivery, specializing in track design and coordination with Class I railroads. He has extensive experience working with BNSF Railway, CPKC, Union Pacific, and Canadian National, supporting project development, design review, and permitting. Nathan contributes to rail safety and crossing improvement prioritization efforts by providing engineering evaluation of crossing conditions, constructability constraints, and railroad coordination requirements. His experience delivering rail projects and permitting crossings provides practical insight into feasibility, cost drivers, and implementation risks, helping agencies prioritize projects that can be successfully advanced to construction. He has assessed existing highway-rail grade crossings, evaluated warning devices, roadway approaches, and site conditions, documented existing features, and developed recommendations for safety improvements with associated costs. He supports prioritization efforts by advancing projects through design, railroad coordination, permitting, construction, and return to service.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/20 – 12/20	**Port of Greater Baton Rouge, Capital Drive Crossing Reconstruction (Crossing #447098T), Port Allen, LA.** *Project Manager/Engineer of Record/Construction Manager.* Nathan led design and construction of industrial lead crossing reconstruction. He coordinated closely with railroad stakeholders and construction teams during outage windows. Nathan evaluated site constraints, truck traffic, and rail operations to develop a constructible solution. His experience provides insight into cost, constructability, and operational impacts that inform prioritization of crossing improvements.
03/20 – 12/20	**Port of Greater Baton Rouge, Ernest Wilson Drive Crossing Reconstruction (Crossing #447096E), Port Allen, LA.** *Project Manager/Engineer of Record/Construction Manager.* Nathan managed the design of temporary and permanent crossing configurations to support the roadway realignment. He coordinated sequencing to maintain operations while improving long-term safety. The work required balancing short-term impacts with long-term safety outcomes, contributing to understanding of how projects are prioritized based on feasibility and benefit.
01/19 – 09/20	**Port of Greater Baton Rouge, North Line Road Crossing Construction (Crossing #975561G), Port Allen, LA**. *Engineer of Record.* Nathan designed new rail crossing and supporting infrastructure for industrial operations. He coordinated with stakeholders to confirm compliance with railroad requirements and roadway needs. This experience supports evaluation of new crossing justification and implementation considerations within prioritization programs.
07/19 – 07/21	**Air Liquide Large Industries, New Rail Spur, Bay City, TX.** *Project Manager/Engineer of Record*. Nathan led the design and permitting of a new rail spur including an at-grade crossing of FM 3057. He coordinated with TxDOT and railroad stakeholders to obtain approvals. This experience with multi-agency permitting and railroad coordination informs prioritization by identifying projects that can realistically advance through approvals.

Firm employed by: **HDR Engineering, Inc.**			
Name	**Amanda Stahlnecker, PE**	Years of relevant experience with this employer	20
Title	Rail Section Manager	Years of relevant experience with other employer(s)	2

Degree(s) / Years / Specialization			Bachelors / 2003 / Civil Engineering
Active registration number / state / expiration date			**Professional Engineer #124571** / TX / September 30, 2026
Year registered	2016	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Project Manager and Training / Oversee planning, execution, and completion of projects, confirming they meet deadlines, stay within budget, and adhere to quality and safety standards. Develop and implement training and associated documents. **(Meets MPR4)**

Amanda has extensive experience delivering freight and passenger rail projects—from planning through construction—for railroads, industries, contractors, and public agencies. Her work includes crossing inventories, prioritization and improvements, quiet zones, industrial track connections, and feasibility studies. As a Project Manager, Amanda uses her experiences with a wide variety of clients, contractors, agencies, and projects to apply lessons learned to keep projects moving forward while meeting the project needs through effective collaboration. Her responsiveness to the needs of her clients shows her dedication to project success while staying within budget and on schedule. She uses experience to find solutions for projects by looking at the whole picture, considering the needs of the various stakeholders and impacts to cost and schedule to meet project objectives.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/21 – 05/22	**TxDOT Rail Division**, **Statewide Rail Crossing Inventory Update, Statewide TX.** *Engineering Lead.* Amanda supported data collection, maintenance photo documentation, and mapping of public highway rail grade crossings throughout the State. The information collected updated crossing inventory data in the TxDOT Texas Railroad Information Management System (TRIMS) database. Amanda developed protocols and procedures to collect numerous crossings and associated roadway characteristics of public grade crossings and conducted trainings for staff to implement. Data collection was conducted via a hybrid approach, combining field visits using mobile data collection applications and mobile surveying equipment, with in-office desktop reviews of recent aerial photographs, as well as information and data from various sources such as local governments, planning organizations, and railroad companies. Nine crossings were surveyed and preliminary concepts and construction cost estimates developed for humped crossing improvements. Amanda provided quality control of data and deliverables and updated final data into the TRIMS database.
04/23 – 02/24	**Tyler Area MPO, Railroad Inventory and Assessment, Smith County, TX**. *Project Manager.* HDR conducted a railroad inventory of the existing and former railroads infrastructure within Smith County, including the crossings. Data was analyzed for highway/rail crossing safety from various sources via desktop and field collection, including conditions assessment based on crossing surface and approach parameters for 86 at-grade, public, and open, highway crossings. Amanda developed methodology and guidance documents for data collection and **oversaw the implementation of the highway/rail safety corridor evaluation** and conducted the prioritization. She trained the implementation team. The prioritized summaries of at-grade crossing improvements across the county will be used by Tyler Area MPO, Smith County, municipalities, and TxDOT for future improvements at-grade, public, open crossings. The final product included GIS inventory, prioritization lists, and report and presentation outlining the standard operating procedures for working with railroads for various projects. Amanda conducted quality reviews of deliverables, coordinated with stakeholders, and presented findings to the Board.

09/20 – 08/21	**TxDOT Rail Division, Statewide Crossing Study, Statewide TX.** *Engineering Lead.* HDR assisted TxDOT on a Statewide Grade Crossing Study focused on evaluating public, at-grade highway-rail grade crossings to prioritize and identify grade crossings for potential grade separation or other improvements, resulting in approximately 20 conceptual designs and cost estimates. Amanda developed the **highway/rail safety corridor evaluation** methodology and oversaw the implementation. This improvement study involved using existing data and input from local governments, planning organizations, and railroad companies. Amanda coordinated with TxDOT to validate methodology and findings at various stages throughout the process. She provided design oversight and conducted consistency reviews of deliverables. She drafted the final report for presentation to TxDOT.
01/25 – Ongoing	**City of Tyler, City of Tyler Crossing Improvements, Tyler, TX.** *Project Manager.* HDR is assisting the City of Tyler with developing construction packages for four at-grade railroad crossing improvement projects, coordinating with Union Pacific Railroad (UPRR), and providing bidding and construction support, including onsite construction observation. Design elements include survey, roadway design, drainage design, water/wastewater design, and utility conflict analysis and coordination. Amanda leads the design **evaluation of a highway/rail safety corridor** including three crossings Downtown (Locust Street, Ferguson Street, and Erwin Street) and one crossing outside of downtown (Lake Street). The crossings downtown will be modified from one-way to two-way streets and coordinated with other downtown improvements being constructed during design. Lake Street improvements include modifications to the roadway profile to reduce rough rides and potential hang-ups reported by the community. Amanda coordinates with the client and various stakeholders to guide the design team. She is the railroad coordination lead with UPRR.
12/20 – 09/22	**Oklahoma Department of Transportation (ODOT) Rail Division, State Rail Plan, Statewide OK.** *Deputy Project Manager.* HDR updated the ODOT State Rail Plan to fulfill the federal requirements. To support the plan update efforts, HDR performed stakeholder outreach and a legal review. Amanda led the team in coordination and collaboration with ODOT and stakeholders to incorporate information into the state rail plan.
09/23 – 02/25	**TxDOT Rail Division, State Rail Plan Update, Statewide TX.** *Deputy Project Manager.* HDR updated the TxDOT State Rail Plan to fulfill the federal requirements. To support the plan update efforts, HDR performed stakeholder outreach and a legal review. Amanda led the team in coordination and collaboration with TxDOT and stakeholders to incorporate information into the state rail plan. In addition, she conducted quality review of the rail plan.
09/19 – 12/22	**Williamson County, FM3349 Grade Separation, Hutto, TX.** *Railroad Coordination Lead/Engineer of Record.* HDR developed planning schematic and PS&E design for a highly complex expansion of FM 3349 at US 79, improving safety and traffic flow for the area. The schematic was developed for a scenario consisting of a 3.1-mile access control facility as well as an interim scenario. Amanda collaborated with UPRR and **evaluated the highway/rail safety corridor** within the project area, resulting in a grade separation at UPRR, multiple crossing closures, replacement of an existing UPRR drainage bridge, and a shoofly track to maintain railroad operations. She continued coordination with UPRR to fulfill their public project requirements. Amanda reviewed the design of the track, railroad drainage structure, and crossing improvements/closures.

Firm employed by: **Westwood Professional Services, Inc.**			
Name	**John Dameron**	Years of relevant experience with this employer	7
Title	Senior Field Inspector	Years of relevant experience with other employer(s)	23

Degree(s) / Years / Specialization			B.S. / 1996 / General Studies
Active registration number/state / expiration date			N/A
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities			Field Inspector responsible for performing existing infrastructure inventory and data collection activities, including conducting field surveys to document roadway and asset conditions, collecting and recording accurate field data and quantities, and supporting preparation of project datasets, while coordinating with the Technical Manager to ensure data accuracy, consistency, and compliance with project requirements.

Experience dates	Experience and qualifications relevant to the proposed contract.
01/19 – Ongoing	**Lafayette Consolidated Government, LA 182 / University Avenue Corridor Study and Engineering Services, Lafayette Parish, LA.** *Senior Survey Party Chief.* John is responsible for large-scale corridor survey data collection and processing in support of roadway improvements. The project included approximately 2.5 miles of corridor survey, over 150 property boundary parcels, and utility coordination at major intersections. John conducts field data collection, GPS static control processing, level loop calculations, utility retracement, and right-of-way mapping. He has processed over 50,000 survey data points and utilized automated coding and Civil 3D tools to support development of accurate mapping and project datasets
01/20 – Ongoing	**Lafayette Consolidated Government, Lafayette Bridge Replacement Projects (Multiple Projects), Lafayette Parish, LA.** *Senior Survey Party Chief.* John is responsible for coordinating field data collection and survey operations for bridge replacement projects. The work included boundary retracement, courthouse research, topographic corridor surveys, and right-of-way mapping. John is coordinating field crews, performed data collection and reduction, and supported development of mapping and documentation for multiple project sites, confirming accurate representation of existing conditions and project limits.
01/19 – Ongoing	**Calcasieu Parish Police Jury, Off-System Bridge Replacement Projects, Calcasieu Parish, LA.** *Senior Survey Party Chief.* John is supporting survey services for multiple bridge replacement projects, including collection of topographic and boundary data, right-of-way mapping, and utility coordination. John is directing field operations, performs data collection and processing, and coordinated mapping efforts, confirming that survey data accurately reflected existing field conditions for use in project development and design.
01/21 – 12/23	**Ascension Parish Government, Ascension Parish Floodplain Management Plan, Ascension Parish, LA.** *Senior Survey Party Chief.* John was responsible for managing field data collection efforts supporting development of parish-wide hydraulic models. The project included over 82 miles of stream cross-sections and more than 390 structure crossings. John oversaw field crew operations, data collection, reduction, and processing, and supported development of datasets used for hydraulic modeling and flood risk evaluation.

01/18 – 12/18	**LADOTD, Off-System Bridge Surveys, Caldwell, Concordia, and LaSalle Parishes, LA.** *Chief Survey Technician.* John was responsible for field survey operations supporting bridge replacement projects for DOTD. John established survey baselines, set vertical benchmarks, and performed data collection in accordance with DOTD standards, ensuring accurate field data for project design and construction.
01/21 – 01/22	**East Baton Rouge City-Parish Department of Transportation and Drainage, MOVEBR New Capacity Improvements Projects, Baton Rouge, LA.** *Survey Lead.* Westwood was selected as the Prime Consultant in full charge of program management for the MOVEBR Infrastructure Enhancement and Traffic Mitigation Plan, a long-term plan to provide new roadways or existing roadway improvements through additional lane capacity, increased turning lane capacity, and other constructive measures to improve the City-Parish roadway system's overall volume capacity. John provided survey lead coordination and corridor inspections.
05/25 – Ongoing	**LADOTD, TAP IDIQ, Statewide LA.** *QA/QC.* Westwood provides comprehensive support for TAP-funded initiatives, including grant application assistance, planning, survey, data collection and engineering design services. John is providing survey QA/QC support for designs for multiple projects and evaluation of field conflicts that may impact the design or increase construction costs.
03/22 – Ongoing	**Ascension Parish Government, Riverplex Megapark/Energy Transition Parkway, Ascension Parish, LA.** *Senior Survey Party Chief.* John was responsible for leading field data collection and survey coordination efforts supporting development of a transportation corridor designed to improve connectivity across industrial areas. John directs survey operations, conducts data collection and processing, and coordinates field activities to support planning and preliminary engineering efforts. He confirms accurate documentation of existing conditions, maintains consistency of collected data, and supports coordination with the project team to provide reliable datasets for engineering analysis and corridor development.
04/22 – Ongoing	**City of Gretna, Louisiana West Bank Relocation, Gretna, LA.** *Senior Field Coordinator.* John collects data for utilities and topographic survey to support rail corridor planning and design, to provide a new rail alignment and abandonment of an existing rail line that runs through an urbanized corridor. The project includes at-grade rail crossings, conflict studies for bridge infrastructure, and ADA pedestrian facilities.

Firm employed by: **Westwood Professional Services, Inc.**			
Name	**Claire Lavergne, PE**	Years of relevant experience with this employer	3
Title	Field Inspection	Years of relevant experience with other employer(s)	10

Degree(s) / Years / Specialization			B.S. / 2015 / Civil Engineering
Active registration number/state / expiration date			Professional Engineer #0043709 / LA / March 31, 2028
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Professional Engineer serving as Technical Manager for field inventory and data collection, providing technical oversight to field inspectors, reviewing data for accuracy and completeness, supporting data collection procedures, and coordinating with the project team to maintain quality control and compliance with project requirements.

Experience dates	Experience and qualifications relevant to the proposed contract.
04/22 – Ongoing	**City of Gretna, Louisiana West Bank Relocation, Gretna, LA.** *Senior Technical Advisor.* Claire advises on roadway design and drainage in association with a rail corridor planning and design to provide a new rail alignment and abandonment of an existing rail line that runs through an urbanized corridor. The project includes at-grade rail crossings, conflict studies for bridge infrastructure, and ADA pedestrian facilities.
01/19 – Ongoing	**Lafayette Consolidated Government, LA 182 / University Avenue Corridor Study and Engineering Services, Lafayette Parish, LA.** *Senior Technical Advisor / QA/QC Manager.* Claire advises and performs QA/QC for roadway design, railroad pedestrian coordination, cost estimating, temporary traffic control signage, and other engineering guidance.
03/22 – Ongoing	**Ascension Parish Government, Riverplex Megapark/Energy Transition Parkway, Ascension Parish, LA.** *Project Manager.* Claire supports development of a transportation corridor project designed to improve connectivity across industrial areas. She provides technical oversight for planning and preliminary engineering efforts, supports coordination across project teams, temporary traffic control signage, and ensures engineering analyses and documentation meet project objectives and applicable standards.
05/25 – Ongoing	**LADOTD, TAP IDIQ, Statewide LA.** *Senior Engineer.* Westwood provides comprehensive support for TAP-funded initiatives, including grant application assistance, planning, survey, and engineering design services. Their team is providing grant application support, design, planning, topographic surveys, data collection, and agency coordination to small communities. Claire provides engineering support and design services for grant applications and designs for multiple projects. She is also assisting designers in the evaluation of possible conflicts with existing topographic features.

Firm employed by: **Westwood Professional Services, Inc.**			
Name	**Conor McGuinness, EI**	Years of relevant experience with this employer	1
Title	Field Inspection	Years of relevant experience with other employer(s)	6

Degree(s) / Years / Specialization			B.S. / 2019 / Industrial Engineering
Active registration number/state / expiration date			Engineer Intern, License No. EI.0035515 / LA / March 31, 2028
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			Engineer Intern performing field-based existing infrastructure inventory and rail data collection activities, including conducting site visits to document existing roadway and asset conditions, collecting and recording accurate field data, quantities, and asset attributes, and organizing information for use in project databases and mapping systems, while coordinating with project team members to verify data accuracy and ensure all collected information meets project documentation standards.

Experience dates	Experience and qualifications relevant to the proposed contract.
12/22 – 01/25	**City-Parish of East Baton Rouge, Bridge Inspection and Load Rating Program, Baton Rouge, LA.** *Engineer Intern.* Conor supported bridge inspection and asset management activities for the City-Parish of East Baton Rouge, including evaluation of in-service bridges for structural condition and operational integrity. The program involved review of inspection data, identification of structural deficiencies, and support of load rating analyses for existing structures. Conor analyzed bridge inspection reports and field data to assess structural performance and assist in development of static load ratings. He maintained and updated the bridge inventory database, ensuring accurate tracking of bridge attributes and condition data. His responsibilities also included supporting coordination of bridge repair and replacement projects and administering levee permits for construction activities adjacent to the Mississippi River levee, ensuring required documentation was collected and coordinated with applicable agencies.
01/24 – Ongoing	**Baton Rouge Parks and Recreation, Airline Highway Park Improvements, Baton Rouge, LA.** *Engineer Intern.* Westwood is providing engineering design and development services for improvements to a major public recreational facility including roadway access, drainage infrastructure, parking, and site amenities. Conor supports the project by assisting with field observations and documenting existing site conditions to support design development and project deliverables.
01/21 – Ongoing	**Burtville Development LLC, Lakes at Harveston Residential Development, Baton Rouge, LA.** *Engineer Intern.* Westwood is providing construction administration services for a large-scale mixed-use residential development including roadway infrastructure, drainage systems, and utilities. Conor supports construction-phase activities by assisting with field observations, documenting site conditions, and contributing to project documentation efforts.
01/23 – Ongoing	**Louisiana National Guard (LANG), LANG Readiness Center, Lake Charles, LA.** *Engineer Intern.* Westwood is providing civil engineering, utility coordination, and construction administration services for development of a National Guard Readiness Center located adjacent to an existing airport on a former Air Force base. The project includes demolition of over 7 acres of existing pavement, reconfiguration and relocation of utilities, and development of site infrastructure including stormwater management systems designed to meet performance requirements for runoff control. The project requires coordination of utility rerouting and preparation of revised utility plans to support construction activities and ensure compliance with project requirements. Conor supports the project by assisting with field observations and documentation of existing conditions to support project coordination and development activities.

17. Firm Experience:

Firm name	**HDR Engineering, Inc.**		Discipline(s)*	Data Collection, Planning	
Project name	**TxDOT Statewide Rail Crossing Inventory Update**			Firm responsibility (prime or sub?)	Prime
Project number	10296049	Owner's name	TxDOT Rail Division		
Project location	TX		Owner's Project Manager	Chad Coburn	
Owner's address, phone, email	6230 E. Stassney Lane, Austin, TX 78744, 512-793-6479, Chad.Coburn@txdot.gov				
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost ($1,000's)		$995	
Services completed by this firm (mm/yy)	05/22	Cost of consultant services provided by this firm ($1,000's)		$942	

HDR supported TxDOT Rail Division for data collection, maintenance photo documentation, and mapping of public highway rail grade crossings throughout the State. The information collected was used to update the TxDOT Texas Railroad Information Management System (TRIMS) database to be compatible and supplement the FRA Crossing Inventory along with other TxDOT internal purposes. With over 14,000 crossings in the state, HDR confirmed the dataset based on status, position, and owner. HDR developed protocols and procedures to collect numerous crossing and associated roadway characteristics of public grade crossings, in addition to coordinating and training the staff supporting the project. Data collection for over 9500 crossings was conducted via a hybrid approach, combining field visits using mobile data collection applications and mobile surveying equipment, with in-office desktop reviews of recent aerial photographs, as well as information and data from various sources such as local governments, planning organizations, and railroad companies. As the project progressed, removal of duplicate crossings and correction to crossing locations and DOT numbers were coordinated with TxDOT for updating the FRA Crossing Inventory beyond their system. The final product included an updated TRIMS database and guidance documents and training materials for future updates. As an extension of the project, HDR surveyed with LiDAR nine crossings and developed preliminary concepts and construction cost estimates for humped crossing improvements.

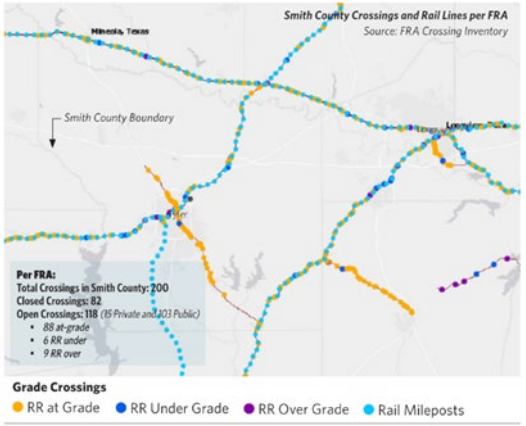
Best Practice: We learned that spot checking the data throughout inventory and logic checking the evaluation as you go is critical to having quality results that make sense to each party.

Key Project Elements: *Data Management, Training, Inventory Updates, Profile Evaluation*

HDR Members Involved: Amanda Stahlnecker, Kalyan Javvaji

Firm name	**HDR Engineering, Inc.**		Discipline(s)*	Data Collection, Planning
Project name	**Tyler Area MPO Railroad Inventory and Assessment**		Firm responsibility (prime or sub?)	Prime
Project number	10370054	Owner's name	Tyler Area Metropolitan Planning Organization	
Project location	Smith County, TX		Owner's Project Manager	Michael Howell
Owner's address, phone, email	423 W Ferguson St, Tyler, TX 75702, 903-531-1173, mhowell@tylertexas.com			
Services commenced by this firm (mm/yy)	04/23	Total consultant contract cost ($1,000's)		$150
Services completed by this firm (mm/yy)	02/24	Cost of consultant services provided by this firm ($1,000's)		$150

On behalf of the Tyler Area MPO, HDR conducted a railroad inventory of the existing and former railroads infrastructure within Smith County, including approximately 59 miles of railroad and associated crossings. HDR analyzed data from various sources in a hybrid review including a GIS analysis, desktop validation, and field inventory. The GIS analysis used GIS based data to analyze and update key attributes, such as AADT. The desktop validation utilized a GIS based application and aerial and street view imagery to validate crossing status (open or closed), warning devices (active versus passive), number of tracks, and other base data. The field inventory reviewed additional features including signing and striping as well as a conditions assessment based on crossing surface and approach parameters. The field inventory was conducted for 86 at-grade, public, open highway crossings. We evaluated the data and prioritized the at-grade crossings across the county based on methodology developed at the onset of the project. By developing methodology early, HDR verified key attributes were evaluated and defined consistently by implementing staff training and developing guidance documents. HDR distributed summaries of the findings that will be used by Tyler Area MPO, Smith County, municipalities, and TxDOT for future improvements at-grade, public, and open crossings. The final product included GIS inventory that has since been incorporated into the Smith County system, prioritization lists, and report and presentation outlining the standard operating procedures for working with railroads for various projects.



DOTD Benefit: This project exemplified the use of right sizing developed processes and documentation from the TxDOT Statewide Crossing Inventory.

Key Project Elements: *Data Management, Training, Inventory Updates, Prioritization, Strategic Communications*

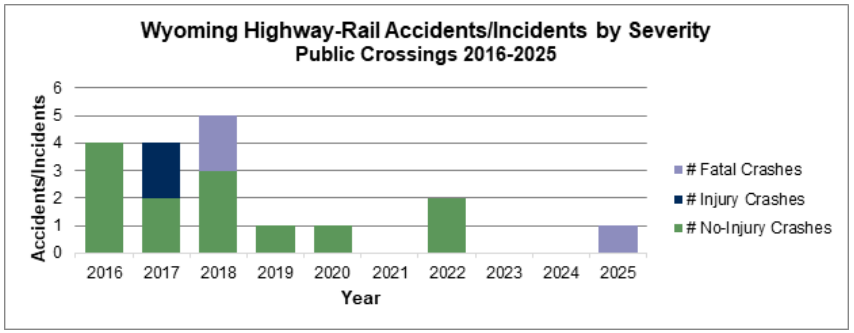
HDR Members Involved: Amanda Stahlnecker, Brann Greager, Kalyan Javvaji

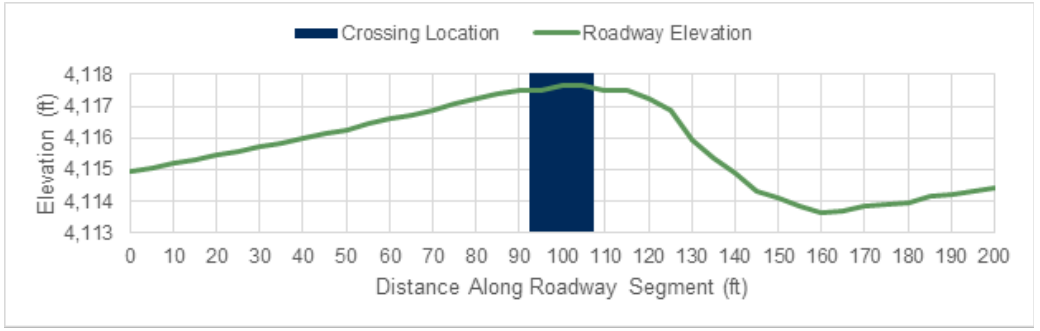
Firm name	**HDR Engineering, Inc.**		Discipline(s)*	Data Collection, Planning	
Project name	**Wyoming State Rail Plan and Grade Crossing Action Plan**		Firm responsibility (prime or sub?)	Prime	
Project number	N/A	Owner's name	Wyoming Department of Transportation (WYDOT)		
Project location	Statewide, Wyoming		Owner's Project Manager	Dan Kline	
Owner's address, phone, email	5300 Bishop Blvd, Cheyenne, WY 82009, 307-777-4189, dan.kline@wyo.gov				
Services commenced by this firm (mm/yy)	02/25	Total consultant contract cost ($1,000's)		$455	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$455	

HDR is developing a comprehensive State Rail Plan for Wyoming that establishes a foundation for intermodal planning and development, guides future operating policies and planning documents, and serves as a reliable reference for rail-related business investments and operations across the state. HDR facilitated two public meetings to gather input from stakeholders. HDR is also gathering and processing necessary data to support the study including operational and condition data from the FRA as well as economic data such as the Freight Analysis Framework dataset. In conjunction with the State Rail Plan update, WYDOT is also updating the 2022 Grade Crossing Action Plan to reflect updated data and mark the progress made in achieving the goals set out in the original plan as well as updating those goals to address new and evolving challenges. HDR's evaluation included an **innovative new analysis approach** using publicly sourced data from the US Geological Survey to review vertical profile deficiencies. This approach provided WYDOT with new insights into the locations and severity of crossings with these issues. The results of this analysis were combined with contextual data such as high truck volumes or proximity to major freight generators to assist WYDOT in prioritizing grade crossing improvement projects.

Key Project Elements: *Data Management, Strategic Communications, Inventory Updates, Profile Evaluation/Prioritization*

HDR Members Involved: Chris Ryan

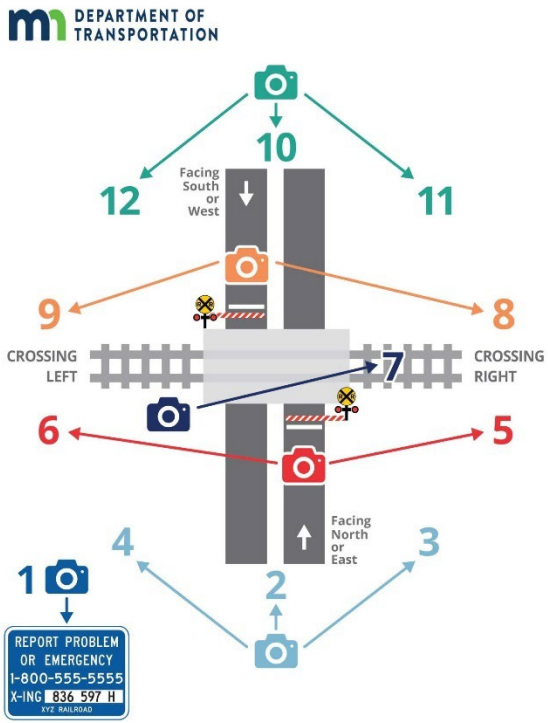




This figure shows example elevation data for a Wyoming crossing with known vertical profile deficiencies.

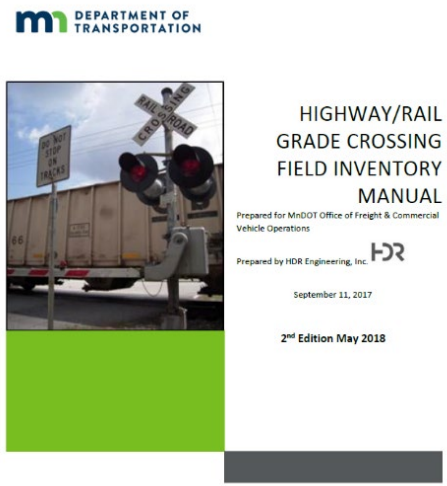
Firm name	**HDR Engineering, Inc.**		Discipline(s)*	Data Collection
Project name	**MnDOT Rail Grade Crossing Inspections**		Firm responsibility (prime or sub?)	Prime
Project number	1047833	Owner's name	Minnesota Department of Transportation (MNDOT)	
Project location	Statewide MN		Owner's Project Manager	Amy Johnson
Owner's address, phone, email	395 John Ireland Blvd., MS 470, St Paul, MN 55155, 651-366-3709, Amy.L.Johnson@state.mn.us			
Services commenced by this firm (mm/yy)	09/21	Total consultant contract cost ($1,000's)		$514
Services completed by this firm (mm/yy)	06/26	Cost of consultant services provided by this firm ($1,000's)		$458

Since 2021, HDR has maintained a master contract with MnDOT to conduct grade crossing inspections and inventory updates across Minnesota. HDR has completed the field review of public grade crossings in one to two MnDOT districts per year. This includes confirmation of physical roadway conditions, warning device systems, sight distance and sight obstruction assessments, roadway signage and pavement markings, land-use summaries, and site photographs. The data is collected via the ArcGIS Online platform using a combination of FieldMaps and Survey123. HDR and MnDOT field review staff utilized a grade crossing inventory update manual and a training program, developed by HDR in a previous master contract, to provide consistent, quality data collection. Following collection of the data, HDR completes a quality control process to confirm required data and photographs have been adequately collected prior to submittal to MnDOT for review and consolidation into the statewide crossing database.



Key Project Elements: *Data Management, Inventory Updates, Training*

HDR Members Involved: Hadi Alsaffar, Chris Ryan



Firm name	**HDR Engineering, Inc.**		Discipline(s)*		Planning	
Project name	**Louisiana West Bank Relocation**			Firm responsibility (prime or sub?)		Sub
Project number	140979	Owner's name	Westwood Professional Services, Inc.			
Project location	Gretna, LA		Owner's Project Manager	Sam Speer		
Owner's address, phone, email	8555 United Plaza Blvd, Suite 401, Baton Rouge, LA 70809, 833-523-2526, sam.speer@westwoodps.com					
Services commenced by this firm (mm/yy)	06/24	Total consultant contract cost ($1,000's)				$1400
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)				$368

The project advances the design initially proposed in an Environmental Impact Study prepared in 2018. The project intends to relocate a portion of the Belle Chase subdivision from the Gouldsboro Yard to just south of Belle Chase Yard. This relocation will eliminate the notorious street running operation currently happening along Madison Street in Gretna Louisiana. This relocated section involves approximately nine miles of new track along Peters Road and utilizes existing Union Pacific Right of Way. The alignment will also cross the Intercoastal Waterway with a new moveable bridge. CSRS is the Prime consultant and providing the conceptual design of the Peters Road, drainage design and coordination with non railroad stakeholders. HDR is providing the railroad design, bridge design, permitting and coordination with the railroad stakeholders which include Union Pacific and Rio Grand Pacific Railroads.

Key Project Elements: *Strategic Communication, Profile Evaluation*

HDR Members Involved: Russell McNaught

Firm name	**Westwood Professional Services, Inc.**		Discipline(s)*		Data Collection	
Project name	**LA 182 / University Corridor Study and Engineering Services**			Firm responsibility (prime or sub?)		Prime
Project number	N/A	Owner's name	Lafayette Consolidated Government			
Project location	Lafayette, LA		Owner's Project Manager	Warren Abadie, PE		
Owner's address, phone, email	101 Jefferson St. Suite 202, Lafayette, LA 70502, 337-291-8548, wabadie@lafayettela.gov					
Services commenced by this firm (mm/yy)	06/17	Total consultant contract cost ($1,000's)				$12,000
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)				$2,000

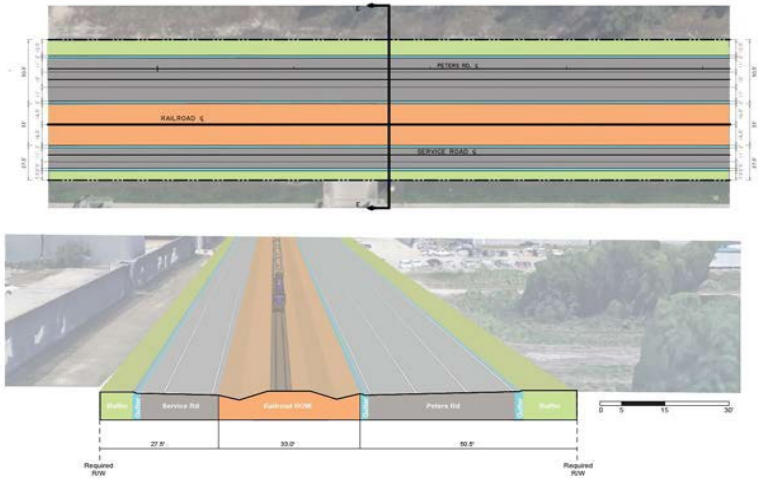
Westwood is providing planning, engineering, and program delivery services for the University Avenue Corridor in Lafayette Parish, a key multimodal transportation corridor identified for revitalization to improve mobility, safety, and connectivity. The project includes corridor planning, data collection, and development of infrastructure improvements to support roadway, pedestrian, transit, and rail interface enhancements. The corridor includes an active rail crossing requiring coordination of roadway improvements with rail operations, including evaluation of an underpass crossing to improve safety and reduce conflicts between roadway traffic and rail movements. Data collection efforts included evaluation of existing rail alignment, right-of-way constraints, utilities, traffic conditions, and safety concerns to support development of coordinated design solutions.

Westwood is responsible for master planning, corridor data collection, and development of engineering design solutions, including coordination with rail operators for crossing evaluation and infrastructure improvements. The team is working with LADOTD, FHWA, and local stakeholders to support design development and project implementation in accordance with state, federal, and rail coordination requirements.

Westwood Members Involved: John Dameron, Claire Lavergne

Firm name	**Westwood Professional Services, Inc.**		Discipline(s)*		Data Collection	
Project name	**Louisiana West Bank Relocation**			Firm responsibility (prime or sub?)		Prime
Project number	N/A	Owner's name	City of Gretna, LA			
Project location	East Baton Rouge Parish, LA		Owner's Project Manager	Belinda Constant, City of Gretna Mayor		
Owner's address, phone, email	720 Second St, Gretna, LA 70053, 504-400-3909, bconstant@gretnala.com					
Services commenced by this firm (mm/yy)	04/22	Total consultant contract cost ($1,000's)		$3,800		
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$2,143		

Westwood is providing engineering and planning services for the Greater New Orleans Westbank Rail Realignment project, a major freight infrastructure initiative in Jefferson Parish and the City of Gretna focused on improving rail operations, safety, and regional connectivity. The project involves realignment of an existing rail corridor to reduce conflicts between freight rail and roadway traffic in urban areas with frequent at-grade crossings. The project is based on a preferred alternative identified through an Environmental Assessment and includes coordination with Class I and short line railroads to ensure compatibility with existing operations. Westwood is responsible for rail corridor planning and design, including coordination with freight rail operators, development of rail alignment alternatives, and evaluation of operational impacts to existing rail infrastructure. The team is performing hydrologic and hydraulic analysis, traffic engineering, and roadway design associated with corridor improvements, as well as supporting NEPA documentation and environmental coordination.



Westwood is also leading stakeholder and agency coordination efforts, working closely with local governments, port authorities, Class I and short line railroads, and regulatory agencies to advance project development, secure funding, and ensure alignment with regional transportation and economic development goals.

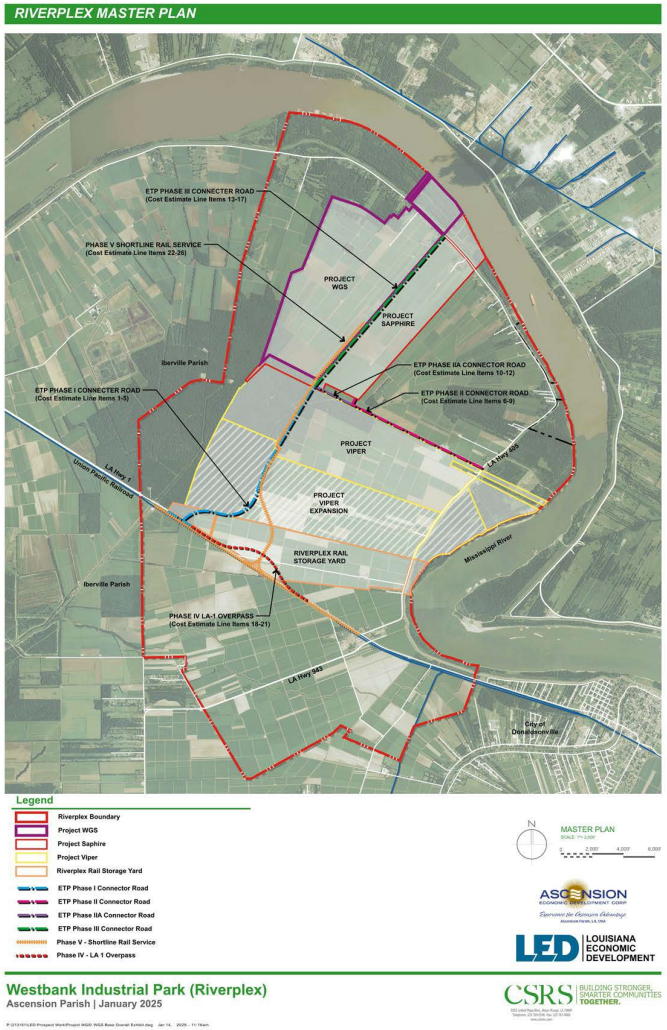
Westwood Members Involved: John Dameron, Claire Lavergne

Firm name	**Westwood Professional Services, Inc.**		Discipline(s)*		Data Collection	
Project name	**Riverplex Megapark/Energy Transition Parkway**			Firm responsibility (prime or sub?)		Prime
Project number	N/A	Owner's name	Ascension Parish Government			
Project location	Ascension Parish, LA		Owner's Project Manager	Daniel Helms, PE, PTOE, RSP		
Owner's address, phone, email	42077 Churchpoint Rd, Gonzales, LA 70737, 225-450-1320, daniel.helms@apgov.us					
Services commenced by this firm (mm/yy)	03/22	Total consultant contract cost ($1,000's)			$13,380	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			$11,700	

Westwood is providing engineering design and planning services for the Riverplex Megapark Energy Transition Parkway project in Ascension Parish, a regional corridor initiative supporting industrial and freight-related development. The project includes development of a new transportation corridor to improve mobility and access across approximately 17,000 acres of industrial property. The proposed corridor is being designed to accommodate both roadway traffic and future rail service to support industrial growth, requiring coordination of corridor alignment to allow for future rail infrastructure, including potential grade separations. The project includes route analysis, preliminary and final design, and coordination with LADOTD and stakeholders to ensure compatibility with long-term transportation and rail service needs. The design considers infrastructure phasing to support future rail integration while maintaining efficient roadway operation and access to industrial use

Westwood is serving as the lead design engineer, responsible for corridor planning, engineering design, survey coordination, rail inspection, and permitting. The team is coordinating with LADOTD, local agencies, railroad providers, and stakeholders to support project development and ensure the corridor accommodates future rail service, industrial access, and regional transportation needs.

Westwood Members Involved: Conor McGuinness, John Dameron, Claire Lavergne



18. Approach and Methodology:

Project/Contract Management: **Amanda Stahlnecker is our designated PM** and will be responsible for overall **contract and task order management**. She will work with DOTD leadership and subject matter experts to initiate the scope of work, validate the project schedule, and formalize HDR's project-specific project management plan (PMP) and quality management plan (QMP). This initial phase will include a formal kick-off meeting to introduce HDR's and DOTD's project leadership teams, align project expectations, and define critical success factors. Kick-off will also identify current data sources and processes, engage key stakeholders, and assess strengths and gaps. These insights will define the approach for subsequent work. Our comprehensive PMP will outline the confirmed work plan, detailed schedule, deliverables, stakeholder roles, and engagement approach. The PMP will also define communication protocols, documentation procedures, and a QA/QC process tailored to DOTD's requirements. Regular progress meetings will be held at intervals determined by DOTD to deliver status updates via dashboards and GIS tools and to continuously refine the approach to meet the project requirements throughout the project. We will submit monthly progress reports that include status on schedule, budget, and key issues to track milestones and maintain transparency throughout the project. Invoicing guidelines will be discussed at the outset of the first task order to verify accurate, timely submittals to DOTD on a monthly basis.

Data Collection and Alignment

HDR will perform a comprehensive evaluation of the existing DOTD inventory data and Federal Railroad Administration (FRA) inventory data for Louisiana and provide recommendations to modify DOTD data to comply with the latest FRA requirements and specific needs for the prioritization evaluation.

- Define attributes required for FRA inventory updates and prioritization evaluation and sources.
- Compile initial data.
- Compare datasets between FRA Inventory data and DOTD inventory data to confirm dataset.
- Identify discrepancies and inconsistencies between data sources, including AADT vintage analysis, road names consistency check, and missing information.
- Assess DOTD inventory data fields not in the FRA inventory to identify gaps and sources.
- Develop Action Plan for resolutions, including sources.
- Collaborate with Louisiana's Class I & Shortline Railroads to update railroad provided data.
- Identify frequency of attribute updates based on source, ease of verification, and FRA and DOTD requirements.

Early in the methodology definition process, a kick-off meeting with each railroad will be held to establish a dialogue for future discussions, obtain railroad specific data, and gain early input on their concerns, suggested improvements, upcoming work, and priorities.

Best Practice: Each dataset is unique - some attributes may require multiple data sources to properly update. We will spot check data throughout the data collection process to validate information prior to entering the system.

Strategic Communications

Data gaps identified may require strategic communications with local stakeholders statewide, which can be extensive depending on number of entities. **Innovation:** For project efficiencies, HDR will work with DOTD to develop standardized emails, GIS-based data collection and tracking dashboards, and procedures for collecting this data. For example, each school district will be given the opportunity to either update a web-based application or provide an email response with requested information. Dashboards will be used to track status of collection and data will be strategically incorporated into the overall system.

Data Management

- Relational database for inventory data and supporting datasets
- ArcGIS services for spatial visualization and analysis
- Web application for data entry, review, and reporting
- API integration to support FRA submissions and interoperability with DOTD systems

We will implement role-based access and field-level permissions to support secure access for DOTD and partner users, with audit tracking of data updates.

Web-based GIS Application

HDR will implement a GIS-enabled data management framework that supports collection, integration, and maintenance of DOTD's railroad crossing inventory. A relational database integrated with ArcGIS Enterprise will serve as the system of record, supporting both FRA-required attributes and DOTD-specific data fields.

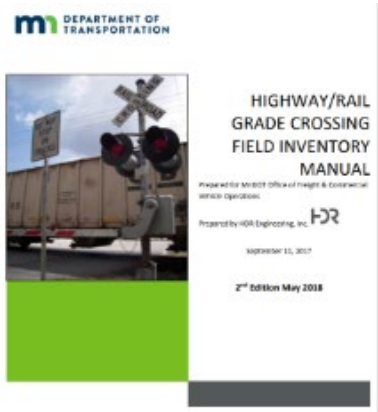
- Structured data model aligned with FRA schema with support for DOTD extensions
- Integration with ArcGIS Enterprise and Roads and Highways to support spatial and linear referencing workflows
- API-based data exchange to support integration with FRA systems, railroad partners, and external datasets
- Versioning and change tracking to record user updates and maintain data history
- Search functionalities incorporated to optimize use.
- Development of field collection application

This approach provides a scalable foundation for ongoing inventory updates, reporting, and system integration.

Training and Support

Consistency and accuracy of data is important to the crossing inventory. HDR will provide training focused on system use, definitions and data collection and evaluation methodologies, and data management processes. This will include:

- HDR analyst onboarding trainings for initial and subsequent updates, including classroom style exercises.
- Initial in-person training for DOTD and railroad users, including example situations.
- Periodic webinars and updates to address system changes and updates per FRA.
- Development of user guidance materials to support consistent data entry and reporting tailored to DOTD, including examples and step by step instructions for repeatable tasks.



Innovation: The Minnesota DOT Field Inventory Manual has been used for the last 10 years to train new staff and serves as a reference guide for questions in the field. This manual along with the TxDOT and Tyler Area MPO documentation will be used as a starting point to right size training and support documents for DOTD.

Inventory Updates

HDR will implement a repeatable workflow to support ongoing inventory updates based on our experiences in Texas and Minnesota.

- Review and prioritize crossings based on data age, discrepancies, and gaps.
- GIS analysis for bulk processing certain attributes such as land use.
- Utilize recent (within last three years) street-level imagery for desktop verification as a primary data source for signs, pavement markings, and similar attributes.
- Conduct targeted field verification where imagery is insufficient.
- Apply validation checks and QA/QC review prior to final updates.
- Submit updates through automated FRA integration workflows.

This process supports DOTD's goal of completing a full statewide inventory review of approximately 2,800 public at-grade crossings within a four-year cycle.

The system will generate FRA inventory forms and reporting outputs directly from the database, including typical reports required for internal use by DOTD. Automated processes will support regular data submission to the FRA National Crossing Inventory using API integration (preferred) or GCIS as required. Validation and error-checking routines will be applied prior to submission.

Best Practice: Near real-time input through a short virtual briefing held at the end of each day during field verification to discuss collection status, safety, questions, and upcoming schedule with project manager or designee will promote better risk and schedule management and facilitate time sensitive quality reviews.

Highway Rail/Safety Prioritization

Best Practice: The key to prioritization is defining the methodology and scoring early, including quantitative and qualitative inputs. Understanding the methodology and scoring will allow you to obtain and maintain the appropriate attributes from the beginning without having to revisit each crossing via desktop or in the field. HDR will review DOTD's current prioritization processes and provide recommendations to optimize the models and rating factors. This will include input from DOTD to confirm goals for the program and realistic implementation that is consistent, maintainable, and efficient. We will also use our experience from similar programs such as the

TxDOT Statewide Crossing Study and Tyler Area MPO Railroad Inventory and Assessment. HDR will develop a guidance document for annual Railroad Safety Program to maintain consistency across the evaluations as well as methodology documentation for prioritization.

HDR will use GIS-based analytics to support prioritization and decision-making.

- Integration of spatial data, traffic data, rail operations, and crossing characteristics
- Support for prioritization models, including FRA, DOTD, and hybrid approaches
- Incorporation of LiDAR-derived data for vertical profile evaluation
- Development of configurable outputs to support reporting, corridor analysis, and program planning

This approach enables DOTD to evaluate and refine prioritization criteria based on evolving safety and operational factors. **Best Practice:** We understand that the prioritization process may take multiple iterations to deliver a prioritized project list that is logical and actionable. We will hold follow-up discussions after initial screening and prior to finalization of priority lists to review results and confirm potential proposed improvements and community impacts, incorporating logic checking as part of the evaluation.

Best Practice: Including community planning efforts that have been completed or are in progress. HDR intends to capitalize on these efforts through review of studies and other planning documents, such as the state rail plan. Through these efforts, HDR will support DOTD in identifying and planning evaluations of up to four corridors as part of the Highway Rail/Safety prioritization process. **Innovation:** The use of GIS-based analytics and dashboards will make it easy to provide materials and reports for public meetings and other stakeholder engagements.

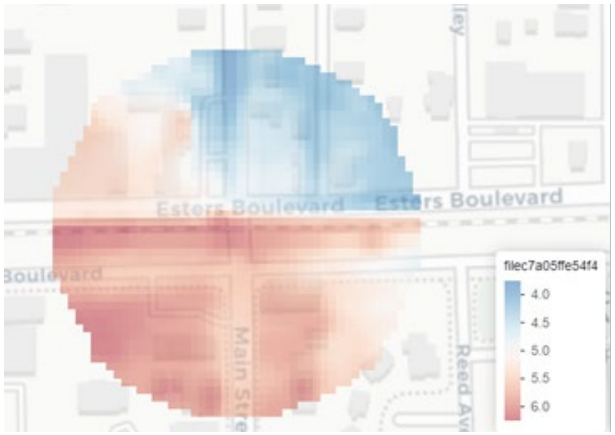
Profile Evaluation and Prioritization

Grade crossing vertical profile deficiencies are a leading cause of crashes, particularly for vehicles with longer wheelbases such as trucks and buses. Having a better understanding of where these issues are present will allow DOTD to act either through engineering design improvements or better signage and messaging to divert susceptible vehicles to other crossing locations. **Innovation:** While various analysis approaches and design standards exist for evaluating vertical profiles, our team has developed a **custom approach** that has been successfully implemented on other statewide and corridor-level analyses. By default, our analysis models a 30-foot wheelbase and a 5-foot front and rear vehicle protrusion to assess the vertical profile constraints on these vehicles. However, this approach is customizable and alternate vehicle dimensions may be evaluated. The following section describes our standard approach.

Innovation: HDR has been at the forefront of finding ways of utilizing this publicly available data source to evaluate grade crossing vertical profiles. Our approach was successfully used to evaluate public grade crossings in Wyoming to identify areas of need.

Our team will use information available from the US Geological Survey's (USGS) Elevation Point Query Service to evaluate vertical profile conditions at public highway-rail grade crossings in the state. The steps of the process will include the following:

1. **Identify Roadway Line Segments:** Using the latitude/longitude coordinates for each crossing in the USDOT grade crossing inventory, our team will geospatially infer the roadway segments at that crossing using either DOTD or OpenStreetMap roadway spatial files. This process will use a 100-foot buffer around each crossing point.



USGS Elevation Data for a humped crossing in Biloxi, MS

2. **Split Roadway Segments and Query Data:** The roadway lines will be segmented into points spaced five feet on center. For each of these points, the elevation data will be collected using the USGS Elevation Service Query via a scripted process developed in the R programming language. If deemed necessary, a data smoothing process will be applied to reduce the impact of outlier data on the final results.

3. **Evaluate Vehicle Clearance:** We will evaluate required vehicle clearance by modeling a vehicle with a 30-foot wheelbase at multiple points along the roadway segments. Required clearance will be calculated by assuming a straight line between each point and a point 30 feet way and comparing the actual elevation to the elevation along this straight light. Similarly, vehicle protrusion beyond this wheelbase will be evaluated by continuing this straight line for another five feet on each side and comparing the straight-line elevation with the actual elevation.

Data Quality Best Practice: While the USGS elevation has generally been found to be largely accurate, there are some notes and caveats that will be taken into consideration. Any inconsistencies or abnormalities in the data will be confirmed via a site field visit:

- **General Data Quality and Smoothing:** The USGS elevation data is largely "rasterized" into grids of varying size depending on underlying data quality. In cases where the five-foot point spacing is less than the rasterized grid size, this can result in a stepped appearance. In these cases, the data smoothing approach described above can be used to adjust the data to a more expected profile and more gradual transition between points.
- **Bridge Deck vs. Ground Elevation:** The elevation data returned by the USGS service does not account for the roadway elevation on bridges. It will instead return the elevation of points underneath the bridge. This can cause issues when a crossing is located adjacent to a stream or other feature requiring a bridge and requires manual adjustment of the elevation data.

Proposed Project Schedule

	Year 1				Year 2				Year 3				Year 4				Year 5			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Project Management	+				+				+				+				+			
Data Collection																				
Data Management				*			*				*				*				*	
Inventory Updates																				
Prioritization																				
Profile Evaluation and Prioritization																				

+ = annual in person meeting* = training

PRELIMINARY – Subject to change upon evaluation with LADOTD to work with your staff and program

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) **ALL FIRMS** MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
HDR Engineering, Inc.	Bridge	4400024186/H.015472	LADOTD Br Preservation TO4	$106,185
	Planning	4400026365/H.015223.2	Baton Rouge to New Orleans Rail Corridor	$593,433
	Bridge	4400021517	Contract 5 for Movable Bridges (6)	$995,145
	Bridge	4400024186	LADOTD LA301 Priest Canal TO#5	$40,072
	Planning	4400032783/H.015223.2	Baton Rouge – New Orleans Passenger Rail	$5,955,620
	Bridge	4400024186	LADOTD Br Preservation TO6	$122,930
	Other (Hydraulic Modeling)	440017091	LADOTD LWI Region 5 TO 5	$226,760
	Planning	4400030630/H.015724.5	Kings Hwy: Healthcare and Development Corridor	$640,494
	Planning	44000323498/H.972419.1	SHSP – VRU Safety Assessment	$705,258
	Planning	4400027876	HNTB TO3 Advisory Services	$88,894
Westwood Professional Services, Inc.	Planning	4400027182/H.015854	TAP: TO 2 Central Greenways Plan	$103,120
	Road	4400027182/H.015917.5	TAP: TO 3 LA 17: Crowville Sidewalks, Phase 1	$273,934
	Road	4400027182/H.015933.5	TAP: TO 4 US 65: Tallulah City Center Sidewalks	$172,228

(Add rows as needed) DO NOT SUM

*** 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:

HDR Secretary of State Certification

State of Louisiana
Secretary of State

COMMERCIAL DIVISION
225.925.4704

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

Name	Type	City	Status
HDR ENGINEERING, INC.	Business Corporation (Non-Louisiana)	OMAHA	Active

Previous Names

HDR INFRASTRUCTURE, INC. (Changed: 12/3/1987)

Business: HDR ENGINEERING, INC.
Charter Number: 34178558F
Registration Date: 6/17/1985
Domicile Address
1917 S. 67TH STREET
OMAHA, NE 68106
Mailing Address
1917 S. 67TH STREET
OMAHA, NE 68106
Principal Business Office
1917 S. 67TH STREET
OMAHA, NE 68106
Registered Office in Louisiana
201 RUE BEAUREGARD, STE. 202
LAFAYETTE, LA 70508
Principal Business Establishment in Louisiana
5750 JOHNSTON STREET
SUITE 105
LAFAYETTE, LA 70503

Status

Status: **Active**
Annual Report Status: **In Good Standing**
Qualified: 6/17/1985
Last Report Filed: 5/27/2025
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: REGISTERED AGENTS INC
Address 1: 201 RUE BEAUREGARD, STE. 202
City, State, Zip: LAFAYETTE, LA 70508

Westwood Secretary of State Certification

State of Louisiana
Secretary of State

COMMERCIAL DIVISION
225.925.4704

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

Name	Type	City	Status
WESTWOOD PROFESSIONAL SERVICES, INC.	Business Corporation (Non-Louisiana)	PLANO	Active

Previous Names

Business: WESTWOOD PROFESSIONAL SERVICES, INC.
Charter Number: 36542830F
Registration Date: 9/17/2007
Domicile Address
2805 DALLAS PARKWAY
SUITE 150
PLANO, TX 75093
Mailing Address
2805 DALLAS PARKWAY
SUITE 150
PLANO, TX 75093
Principal Business Office
2805 DALLAS PARKWAY
SUITE 150
PLANO, TX 75093
Registered Office in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801
Principal Business Establishment in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801

Status

Status: **Active**
Annual Report Status: **In Good Standing**
Qualified: 9/17/2007
Last Report Filed: 9/5/2025
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: CORPORATION SERVICE COMPANY
Address 1: 450 LAUREL STREET, 8TH FLOOR
City, State, Zip: BATON ROUGE, LA 70801

Claire Lavergne ATSSA Traffic Control Design Specialist Certification (Cert. # 988501)

ATSSA
Safer Roads Save Lives

March 24, 2026

Dear Ms. Lavergne:

The Certification Board of the American Traffic Safety Services Association (ATSSA) has approved your application for certification as a Traffic Control Design Specialist. Enclosed in this packet please find your wallet card and certificate.

This certification shall remain in effect until 11/11/2029. If during this time your employment status, name or address changes, please let us know so we may keep your record current.

You are to be commended for maintaining your knowledge of traffic control issues and fulfilling the requirements for certification. It is not an easy achievement and your accomplishment indicates a dedication to improving the traffic control services you perform. Please call us at 877-642-4637 if we can assist you with any future training needs.

Sincerely,

Training and Business
Development Department


ATSSA AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

Claire Lavergne

Unofficial Certification

has satisfied the requirements to be designated as a

Traffic Control Design Specialist

Cert. #: 988501
Issue Date: 11/12/2025
Expiration Date: 11/11/2029

Certification Board

Verification Copy Only

American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 – Fredericksburg, VA 22406-1077
Office: 540-368-1701 – Toll-Free: 800-272-8772 – Fax: 540-368-1717
www.atssa.com

21. <u>QA/QC Plan:</u>

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted**.

22. Sub-consultant information:

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

Firm Name (Name must match exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	**Address**	**Point of Contact and email address**	**Phone Number**
Westwood Professional Services, Inc.	8555 United Plaza Blvd, Suite 100 Baton Rouge, LA 70809	Shaun Sherrow, PE, PMP shaun.sherrow@westwoodps.com	225-278-5736

23. Location:

If location is an evaluation criterion for this advertisement (see page 2) and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement**.