LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Proposal Response for

IDIQ Contract for Professional Boundary Surveying Services, Districts 03 and 07

Contract No. 4400027918

October 11, 2023

LOWE ENGINEERS

DOTD FORM: 24-102

(Revised January 1, 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ Contract for Professional Boundary Surveying Services, Districts 03 and 07
2. Contract Number(s) as shown in the advertisement	4400027918
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name **(name must match as registered with the Louisiana Secretary of State where such registration is required by law)**	Lowe Engineers, LLC
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	VF. 0000567
6. Prime consultant mailing address	104 Speedpro Lane, Scott, LA 70583
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	104 Speedpro Lane, Scott, LA 70583
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Josh Daniel, PLS, Partner Phone: 985.809.4109 josh.daniel@loweengineers.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Josh Daniel, PLS, Partner Phone: 985.809.4109 josh.daniel@loweengineers.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.	 Signature above shall be the same person listed in Section 9: October 11, 2023 Date:
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 Firm(s)' %:

12. Past Performance Evaluation Discipline Table:

Sub-Consultants are not allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 18 of the DOTD Form 24-102*, and the percentage of work in each past performance evaluation discipline to be performed. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. (Add rows as needed.)

Past Performance Evaluation Discipline(s)	% of Overall Contract
Survey	70%
Data Collection	25%
Right-of-Way	5%

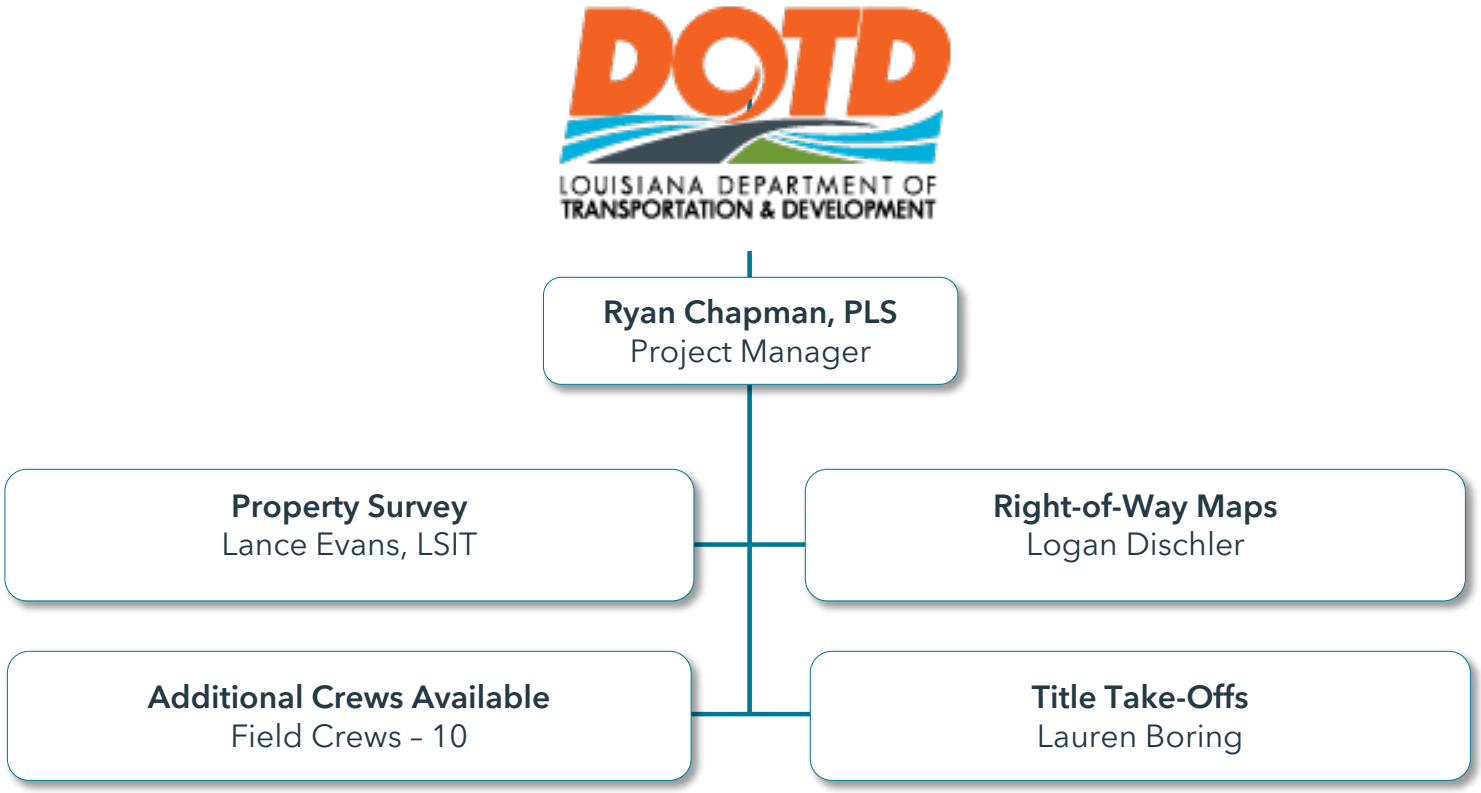
13. Firm Size:

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 (please specify)" and include the classification title inside the parentheses.
The DOTD Job Classification(s) to be used can be found at the following link:
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Lowe Engineers, LLC	Abstractor	1	4
Lowe Engineers, LLC	CADD Drafter	1	20
Lowe Engineers, LLC	CADD Technician	1	20
Lowe Engineers, LLC	CADD Operator	1	10
Lowe Engineers, LLC	Clerical	1	5
Lowe Engineers, LLC	Drafter	1	5
Lowe Engineers, LLC	GIS Analyst	1	15
Lowe Engineers, LLC	Instrument Man	5	15
Lowe Engineers, LLC	Party Chief	5	15
Lowe Engineers, LLC	Principal	1	10
Lowe Engineers, LLC	Professional	2	10
Lowe Engineers, LLC	Rodman	5	10
Lowe Engineers, LLC	Surveyor	2	4
Lowe Engineers, LLC	Technician	2	10

14. <u>Organizational Chart</u>:

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. **If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name. Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20.** It is acceptable to use an 11x17 format for Section 14.



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	Ryan Chapman, PLS	Lowe Engineers, LLC	PLS No. 5096	LA	09/30/2025
2	Ryan Chapman, PLS	Lowe Engineers, LLC	PLS No. 5096	LA	09/30/2025

16. Staff Experience:

Firm employed by	**Lowe Engineers, LLC**		Meets both Minimum Personnel Requirements	
Name	**Ryan Chapman, PLS**		Years of relevant experience with this employer	5
Title	Professional Land Surveyor		Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization			BS, General Studies – University of Louisiana Lafayette, 2004 AS, Civil Engineering Technology – Louisiana Community and Technical College, 2003	
Active registration number / state / expiration date			No. 5096 / LA / Expires 09/30/2025	
Year registered	2013	Discipline	PLS	
Contract role(s) / brief description of responsibilities			Project Manager – Responsible for management of field crews, oversight of survey planning, standards compliance, quality assurance, and assistance with data analysis.	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/22 – 10/22	**FM 833 Right-of-Way and Boundary Survey – Fairfield, TX** **Project Manager** – Right-of-way survey to collect topographic and boundary data for a 4.5-mile segment of FM 833. The data collected was meticulously processed using Leica Infinity, to calculate the location of the newly established primary and secondary control points. A master CSV control file of the primary and secondary control was created as well as a DXF file outlining the project limits. Various features were meticulously located within the project's right-of-way. Cross-section data was gathered at 100-foot intervals along the right-of-way and at 50-foot intervals in curves. Once all point data was cleaned and validated, point files were exported into CSV format. Finally, all files were imported into CAD software for a visual data check, ensuring precision and reliability.
10/21 – 02/22	**KEG Property Survey – Lafayette, LA** **Project Manager** – Project included boundary and topographic data for a proposed property rezoning. Deed research was conducted of the project site and surrounding properties before field work began. This information was used to create maps and files for field staff to search for and locate property information given them. Collected point data underwent refinement in Leica Infinity. Point files were then exported into CSV format. Finally, all files were imported into CAD software. Per scope requirements, a survey plat depicting site planimetric data and property boundary was created. All adjoining properties were shown with property owner information.
11/20 – 03/21	**Freeport Valesco Drainage District Boundary Survey – Brazoria County, TX** **Project Manager** – A boundary retracement survey of the entire hurricane flood protection system along a 36-mile section of the existing levee, covering approximately 140 easements. This included review of easement documents, access, and review of documents at the County Recorders' office, and incorporation into the records index using the client-provided file template. Collected survey data was processed to create maps clearly

Ryan Chapman, PLS, contd.

	portraying boundary, elevations, and utilities to client requirements. Each plat numerically identified tract and ownership(s) that correlated to the records index.
05/22 – 11/22	**FM 80 Right-of-Way and Boundary Survey – Donnie, TX** **Project Manager** – A large, right-of-way (ROW) survey on a 5-mile portion of FM 80 located in Donnie Texas. Our survey crews were mobilized to begin work collecting the necessary topographic data and reconnaissance for completing the survey. The project's scope of work included cross-sections of FM 80. Each cross-section extended from east ROW to west ROW at 100-foot intervals and 50-foot intervals in HWY curves. Boundary data was collected on the highway ROW and adjoining properties to aid in identifying the highway ROW for future expansion.
04/19 – 02/20	**Upper Fifth Levee Enlargement Survey – Concordia Parish, LA** **Project Manager** – A large, multi-parcel boundary survey of three tracts. The task order was a part of one of the multiple IDIQ contracts held in the state. The project's scope of work included cross-sections of over 4 miles of levee to include 50' from the toe-of-slope on each, the protected and flood, side of the 100' wide earthen levee. Three separate tracts were created of varying sizes, totaling roughly 200 acres. Over 20,000 feet of line was required to be cleared and 16 property corners had to be staked for determination of the limits of the borrowed pits. Points along the boundary lines were also set to assist in the location of the property lines as requested in the scope of work..

Firm employed by	**Lowe Engineers, LLC**		
Name	**Lance Evans, LSIT, CST Level I** 	Years of relevant experience with this employer	3
Title	Land Surveyor in Training	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		Attending Northwestern State University, Business Administration Attending South Louisiana Community College, Civil Surveying	
Active registration number / state / expiration date		No. 0L0666 / NV / Does Not Expire NSPS-Certified Survey Technician, Level 1 / Nationwide / Expires 06/30/2024	
Year registered	2022	Discipline	LSIT
Contract role(s) / brief description of responsibilities		Field Coordinator – Responsible for hydrographic survey planning, field procedures, reconnaissance, and data evaluation. Collects field data via robotic and GPS methods.	

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 – 10/22	**FM 833 Right-of-Way and Boundary Survey – Fairfield, TX** **Field Coordinator** – Right-of-way survey to collect topographic and boundary data for a 4.5-mile segment of FM 833. The data collected was meticulously processed using Leica Infinity, to calculate the location of the newly established primary and secondary control points. A master CSV control file of the primary and secondary control was created as well as a DXF file outlining the project limits. Various features were meticulously located within the project's right-of-way. Cross-section data was gathered at 100-foot intervals along the right-of-way and at 50-foot intervals in curves. Once all point data was cleaned and validated, point files were exported into CSV format. Finally, all files were imported into CAD software for a visual data check, ensuring precision and reliability.
10/21 – 02/22	**KEG Property Survey – Lafayette, LA** **Field Coordinator** – Project included boundary and topographic data for a proposed property rezoning. Deed research was conducted of the project site and surrounding properties before field work began. This information was used to create maps and files for field staff to search for and locate property information given them. Collected point data underwent refinement in Leica Infinity. Point files were then exported into CSV format. Finally, all files were imported into CAD software. Per scope requirements, a survey plat depicting site planimetric data and property boundary was created. All adjoining properties were shown with property owner information.
11/20 – 03/21	**Freeport Valesco Drainage District Boundary Survey – Brazoria County, TX** **Field Coordinator** – A boundary retracement survey of the entire hurricane flood protection system along a 36-mile section of the existing levee, covering approximately 140 easements. This included review of easement documents, access, and review of documents at the County Recorders' office, and incorporation into the records index using the client-provided file template. Collected survey data was processed to create maps clearly portraying boundary, elevations, and utilities to client requirements. Each plat numerically identified tract and ownership(s) that correlated to the records index.

Firm employed by	**Lowe Engineers, LLC**		
Name	**Logan Dischler**		Years of relevant experience with this employer: 3
Title	Right-of-Way Specialist		Years of relevant experience with other employer(s): 4
Degree(s) / Years / Specialization			High School Diploma, Eunice High School, 2015
Active registration number / state / expiration date			Mine Health and Safety Administration Certification, Expires 2024 ATSSA-Certified Flagger, No Expiration
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities			Right-of-Way (ROW) Specialist – Responsible for management of data analysis and maps that clearly illustrate right-of-way easements.

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 – 10/22	**FM 833 Right-of-Way and Boundary Survey – Fairfield, TX** **ROW Specialist** – Right-of-way survey to collect topographic and boundary data for a 4.5-mile segment of FM 833. The data collected was meticulously processed using Leica Infinity, to calculate the location of the newly established primary and secondary control points. A master CSV control file of the primary and secondary control was created as well as a DXF file outlining the project limits. Various features were meticulously located within the project's right-of-way. Cross-section data was gathered at 100-foot intervals along the right-of-way and at 50-foot intervals in curves. Once all point data was cleaned and validated, point files were exported into CSV format. Finally, all files were imported into CAD software for a visual data check, ensuring precision and reliability.
10/21 – 02/22	**KEG Property Survey – Lafayette, LA** **ROW Specialist** – Project included boundary and topographic data for a proposed property rezoning. Deed research was conducted of the project site and surrounding properties before field work began. This information was used to create maps and files for field staff to search for and locate property information given them. Collected point data underwent refinement in Leica Infinity. Point files were then exported into CSV format. Finally, all files were imported into CAD software. Per scope requirements, a survey plat depicting site planimetric data and property boundary was created. All adjoining properties were shown with property owner information.
11/20 – 03/21	**Freeport Valesco Drainage District Boundary Survey – Brazoria County, TX** **ROW Specialist** – A boundary retracement survey of the entire hurricane flood protection system along a 36-mile section of the existing levee, covering approximately 140 easements. This included review of easement documents, access, and review of documents at the County Recorders' office, and incorporation into the records index using the client-provided file template. Collected survey data was processed to create maps clearly portraying boundary, elevations, and utilities to client requirements. Each plat numerically identified tract and ownership(s) that correlated to the records index.

Firm employed by	**Lowe Engineers, LLC**			
Name	**Lauren Boring**		Years of relevant experience with this employer	3
Title	Title Take-Off Coordinator		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			AS, Business - South Louisiana Community College, 2004	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Title Take-Off Coordinator – Responsible for title research, processing, and reporting.	

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 – 10/22	**FM 833 Right-of-Way and Boundary Survey – Fairfield, TX** **Title Take-Off Coordinator** – Right-of-way survey to collect topographic and boundary data for a 4.5-mile segment of FM 833. The data collected was meticulously processed using Leica Infinity, to calculate the location of the newly established primary and secondary control points. A master CSV control file of the primary and secondary control was created as well as a DXF file outlining the project limits. Various features were meticulously located within the project's right-of-way. Cross-section data was gathered at 100-foot intervals along the right-of-way and at 50-foot intervals in curves. Once all point data was cleaned and validated, point files were exported into CSV format. Finally, all files were imported into CAD software for a visual data check, ensuring precision and reliability.
10/21 – 02/22	**KEG Property Survey – Lafayette, LA** **Title Take-Off Coordinator** – Project included boundary and topographic data for a proposed property rezoning. Deed research was conducted of the project site and surrounding properties before field work began. This information was used to create maps and files for field staff to search for and locate property information given them. Collected point data underwent refinement in Leica Infinity. Point files were then exported into CSV format. Finally, all files were imported into CAD software. Per scope requirements, a survey plat depicting site planimetric data and property boundary was created. All adjoining properties were shown with property owner information.
11/20 – 03/21	**Freeport Valesco Drainage District Boundary Survey – Brazoria County, TX** **Title Take-Off Coordinator** – A boundary retracement survey of the entire hurricane flood protection system along a 36-mile section of the existing levee, covering approximately 140 easements. This included review of easement documents, access, and review of documents at the County Recorders' office, and incorporation into the records index using the client-provided file template. Collected survey data was processed to create maps clearly portraying boundary, elevations, and utilities to client requirements. Each plat numerically identified tract and ownership(s) that correlated to the records index.

17. Firm Experience:

Firm name	**Lowe Engineers, LLC**	Past Performance Evaluation Discipline(s)*	Survey
Project name	**FM 833 Right-of-Way and Boundary Survey**	Firm responsibility (prime or sub?)	Prime
Project number	2131-01-0027	Owner's name	Texas Department of Transportation (TxDOT)
Project location	Fairfield, TX	Owner's Project Manager	Brad Manti
Owner's address, phone, email	2591 North Earl Rudder Freeway, Bryan, TX 77803, 979.779.8665, brad.manti@txdot.com		
Services commenced by this firm (mm/yy)	04/22	Total consultant contract cost ($1,000's)	$132,000
Services completed by this firm (mm/yy)	10/22	Cost of consultant services provided by this firm ($1,000's)	$132,000

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

Right-of-way survey to collect topographic and boundary data for a 4.5-mile segment of FM 833. Three primary control points were strategically positioned with their horizontal and vertical coordinates determined via collection of static observations, following scope requirements. In addition to the primary control points, a network of 15 secondary control points was established approximately every 1,500 feet along the project's limits. GPS Base Rover setups were utilized to collect horizontal and vertical data of these points. While the GPS base station was occupied on one of the primary control points, two GPS observations exceeding 180 epochs were collected on each secondary control point, with second observation involving a 180-degree rotation of the GPS antenna and a separation of at least one hour, to exceed scope requirements.

The data collected was meticulously processed using Leica Infinity, to calculate the location of the newly established primary and secondary control points. A master CSV control file of the primary and secondary control was created as well as a DXF file outlining the project limits. This proactive measure helps reduce potential discrepancies resulting from field calculations or stationing errors. RTK ties to primary control are collected before and after data collection each day with no exceptions. This ensured no control errors took place.

Various features, including mailboxes, fences, driveways, concrete riprap, individual trees, culvert ends, the drip line of trees, pavement striping, and signs, were meticulously located within the project's right-of-way. Cross-section data was gathered at 100-foot intervals along the right-of-way and at 50-foot intervals in curves. Once all point data was cleaned and validated, point files were exported into CSV format. A separate point file was created for each crew and day of data collection, to help with quality control. Finally, all files were imported into CAD software for a visual data check, ensuring precision and reliability.

Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT, Logan Dischler, Lauren Boring

Firm name	**Lowe Engineers, LLC**	Past Performance Evaluation Discipline(s)*	Survey
Project name	**KEG Property Survey**	Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Riera Management
Project location	Lafayette, LA	Owner's Project Manager	Carlos Riera
Owner's address, phone, email	1318 Lee Avenue C7, Lafayette, LA 70506, 337.280.3553, management@therieraorganization.com		
Services commenced by this firm (mm/yy)	10/21	Total consultant contract cost ($1,000's)	$10,000
Services completed by this firm (mm/yy)	02/22	Cost of consultant services provided by this firm ($1,000's)	$10,000

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

This project included required boundary and topographic data for a proposed property rezoning. Deed research was conducted of the project site and surrounding properties before field work began. This information was used to create maps and files for field staff to search for and locate property information given them. A Louisiana One Call ticket was also placed to aid in utility location.

Once monument checks were reviewed and approved by the office, local monuments were set near the project site. A closed loop traverse around the project site was performed while a second crew searched for boundary markers. After the traverse was adjusted, crews collected topographic data across the site.

The collected point data underwent thorough scrutiny and refinement in Leica Infinity. Feature codes were meticulously cross-referenced with field notes to identify and resolve any discrepancies. Once all point data was cleaned and validated, point files were exported into CSV format. Finally, all files were imported into CAD software for a visual data check, ensuring precision and reliability throughout this comprehensive data collection.

As per scope requirements, a survey plat depicting site planimetric data and property boundary were created. In addition, all adjoining properties were shown with property owner information and current zone.

This project was completed ahead of schedule and under budget.

Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT, Logan Dischler, Lauren Boring

Firm name	**Lowe Engineers, LLC**	Past Performance Evaluation Discipline(s)*	Survey
Project name	**Freeport Valesco Drainage District Boundary Survey**	Firm responsibility (prime or sub?)	Sub
Project number	W912HY20D0003	Owner's name	HDR, Inc.
Project location	Brazoria County, TX	Owner's Project Manager	Matt Redington
Owner's address, phone, email	701 Xenia Ave S., Ste 600, Minneapolis, MN 55347, 763.591.5487, matthew.redington@hdrinc.com		
Services commenced by this firm (mm/yy)	11/20	Total consultant contract cost ($1,000's)	$451,252
Services completed by this firm (mm/yy)	03/21	Cost of consultant services provided by this firm ($1,000's)	$451,252

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

A boundary retracement survey of the entire hurricane flood protection system along a 36-mile section of the existing levee, covering approximately 140 easements. The project also consisted of nearly 600 adjoining tracts with over 190 different owners. The boundary survey effort and right-of-way (ROW) retracement was included as an AutoCAD deliverable, as requested by the client. Work further included review of easement documents, access, and review of documents at the County Recorders' office, and incorporation into the records index using the client-provided file template. Lowe was required to set and/or reset any monuments if corners or change of direction were missing or greatly disturbed. Approximately 800 new or missing monuments were set and/or reestablished.

After all research, data collection, and calculations were conducted, a plat for each easement showed tract ownership(s) (surface and subsurface) area, distances, corners, and property boundaries in state plane coordinates of the tracts that were crossed. Lowe gathered documentation from local assessor's records, collected needed data to analyze information for surrounding landowners and/or easements. Collected survey data was processed to create maps clearly portraying boundary, elevations, and utilities to client requirements. Each plat numerically identified tract and ownership(s) that correlated to the records index. The plat further contained the provided levee system baseline throughout the set of survey plats. Each easement plat was certified by the project RPLS.

Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT, Logan Dischler, Lauren Boring

Firm name	**Lowe Engineers, LLC**	Past Performance Evaluation Discipline(s)*	Survey
Project name	**FM 80 Right-of-Way and Boundary Survey**	Firm responsibility (prime or sub?)	Prime
Project number	0612-01-048	Owner's name	Texas Department of Transportation (TxDOT)
Project location	Donnie, TX	Owner's Project Manager	Brad Manti
Owner's address, phone, email	2591 North Earl Rudder Fwy, Bryan, TX 77803, 979.779.8665, brad.manti@txdot.com		
Services commenced by this firm (mm/yy)	05/22	Total consultant contract cost ($1,000's)	$140,000
Services completed by this firm (mm/yy)	11/22	Cost of consultant services provided by this firm ($1,000's)	$140,000

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

Lowe's survey team performed a large, right-of-way (ROW) survey on a 5-mile portion of FM 80 located in Donnie Texas. Our survey crews were mobilized to begin work collecting the necessary topographic data and reconnaissance for completing the survey. The project's scope of work included cross-sections of FM 80. Each cross-section extended from east ROW to west ROW at 100-foot intervals and 50-foot intervals in HWY curves.

Boundary data was collected on the highway ROW and adjoining properties to aid in identifying the highway ROW for future expansion.

Line work was created using processed data and project field notes to represent the data collected. Proper point codes and layers were used for deliverables as per the project scope. A Digital Terrain Model and the Triangular Irregular Network file, ASCII files of processed collected data, control data sheets for each primary control point set, GEOPAC, and OpenRoads files were submitted ahead of schedule and under budget without any injuries or accidents.

Team Members Involved: : Ryan Chapman, PLS, Lance Evans, LSIT, Logan Dischler, Lauren Boring

Firm name	**Lowe Engineers, LLC**	Past Performance Evaluation Discipline(s)*	Survey
Project name	**Upper Fifth Levee Enlargement Survey**	Firm responsibility (prime or sub?)	Prime
Project number	2131-01-0027	Owner's name	US Army Corps of Engineers, New Orleans District
Project location	Old River Control Complex, Concordia Parish, LA	Owner's Project Manager	Damien French
Owner's address, phone, email	7400 Leake Avenue, New Orleans, LA 70118, 504.862.1865, michael.d.french@usace.army.mil		
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)	$6 Million
Services completed by this firm (mm/yy)	02/20	Cost of consultant services provided by this firm ($1,000's)	$122,257

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

Lowe's survey team performed a large, multi-parcel boundary survey of three tracts in central Louisiana. The task order was a part of one of the multiple IDIQ contracts held in the state. The project's scope of work included cross-sections of over 4 miles of levee to include 50' from the toe-of-slope on each, the protected and flood, side of the 100' wide earthen levee.

The boundary effort was on the flood-side of the levee well into the woods making the effort a cumbersome task. The traverse line had to be cut in conditions that were less than favorable. The river levels during the time of the survey threatened to postpone the completion of the project due to flood stages. With additional equipment such as pirogues and other boats to aid in navigation, and additional manpower, our survey crews were able to expedite data collection and complete the project without additional delay.

Three separate tracts were created of varying sizes, totaling roughly 200 acres. Over 20,000 feet of line was required to be cleared and 16 property corners had to be staked for determination of the limits of the borrowed pits. Points along the boundary lines were also set to assist in the location of the property lines as requested in the scope of work.

Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT, Logan Dischler, Lauren Boring

18. Approach and Methodology:

INTRODUCTION

Lowe Engineers, LLC (Lowe), a Service-Disabled Veteran-Owned Small Business, operates two offices in Louisiana, in Mandeville and Scott. This allows our survey crews to mobilize anywhere in the state for a boundary survey within hours of receiving a notice to do so. Our longstanding survey experience along with our staffs' qualifications and understanding of the expectations of the LA DOTD allows us to provide quality and timely work. We are familiar with applicable training requirements.

Our office located at 1011 North Causeway Boulevard in Mandeville will be the office performing the services described in this solicitation. Our background performing boundary, right-of-way, and topographic surveys, and setting horizontal and vertical control is extensive. LA DOTD can be assured that subsequent task orders will be allotted with the management warranted to provide a deliverable on-schedule, correct the first time, and within the agreed upon fee.

Our survey teams are equipped with state-of-the-art equipment to perform accurately and efficiently. Standard equipment includes, but is not limited to, robotic total-stations, GPS (RTK/Static) receivers, digital data collectors, and digital levels. Some of the less-traditional equipment that our survey crews have are sUAS (drones), terrestrial and mobile LiDAR scanners, and land-based magnetometers. Given the topography and conditions of South Louisiana, our crews have access to boats, airboats, and marsh buggies some projects may require. Whatever hurdles a project may present, our survey crews and management staff are accustomed to and equipped to address the wide range of work environments across the state.

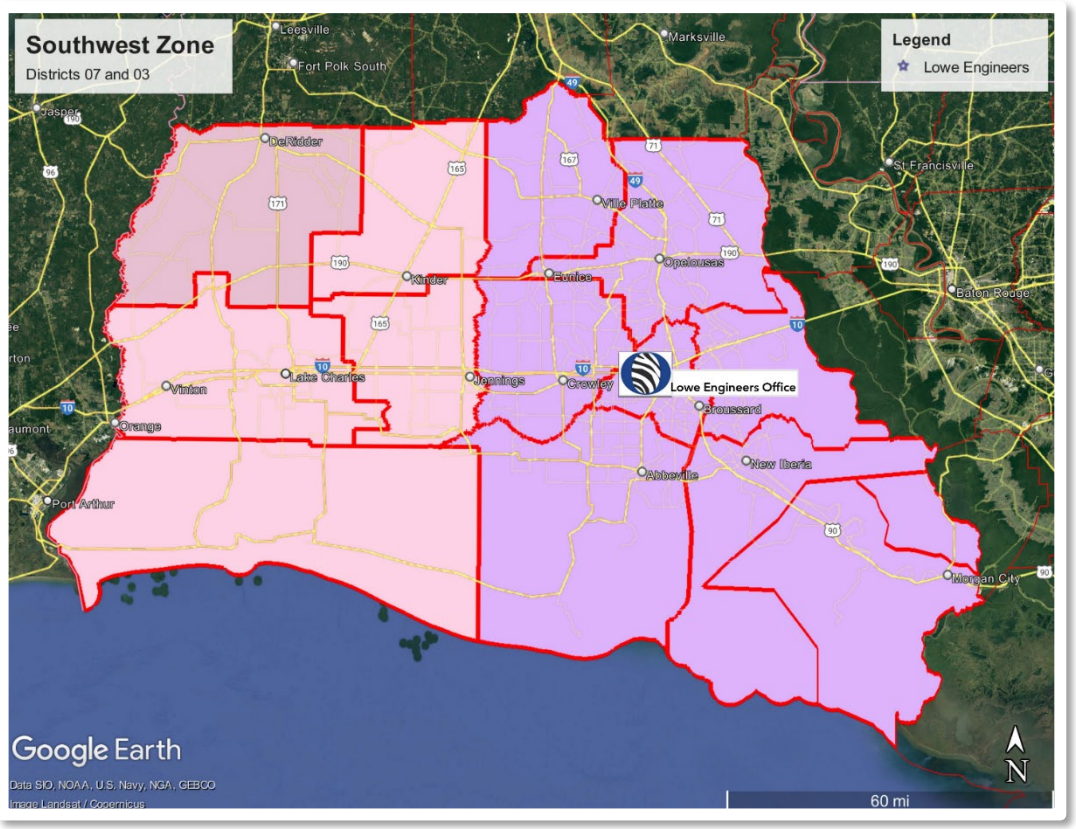
PAST PERFORMANCE

Lowe has multiple decades' of experience surveying in south-Louisiana providing the DOTD an advantage with relationships established over those years. Our staff have more than 50 years of work in Louisiana on government, both federal and state, as well as private clients. We pride ourselves on being a company that provides our clients with high quality deliverables in the most timely and efficient manner possible. We have held multiple contracts with the Coastal Protection and Restoration Authority (CPRA) and the US Army Corps of Engineers New Orleans District, providing our crews with experience working in the terrain and intimate knowledge of the region, including its roads, rivers, lakes, and bayous. We are currently under contract with local municipalities providing our survey crews and managers.

CAPACITY

Our Project Manager, John Bonneau, PLS has over 40 years of land surveying experience, 30 of which have been performed as a Professional Land Surveyor in the State of Louisiana. His experience includes a diverse list of clients throughout the US and particularly Louisiana. He has performed and prepared surveys of all kinds, including boundary, right-of-way, topographic,

hydrographic, and utilities surveys. His background as both a Project Manager and Professional Land Surveyor makes him uniquely qualified to manage this program. Personnel assigned to this contract possess over a century of collective surveying experience. Moreover, we have an additional 10 field crews from which we can augment the proposed team, if necessary.



OUR COMMITMENT

Lowe is dedicated to delivering best-value services and solutions based on innovative applications of science and technology. We have an uncompromising commitment to providing high-quality technical services. Our clients value these standards and our level of service. We have the technical skills, management structure, resources, equipment, and expertise in best practices to carry out our commitment.

Our objective is to build a positive and responsive working relationship with each of our clients. These relationships are built around three principles: Quality, Integrity, and Professionalism. Our core values further include going the extra mile for our clients, loyalty to those we work with, positive relationships, doing what we say we are going to do, and believing in the glass being half-full.

PROPERTY SURVEYS

In the case of property and right-of-way surveys, upon mobilization to a project site, survey crews begin the process of establishing controls to delineate property lines and/or delineate between public right-of-way and privately-owned property. Lowe uses conventional and digital levels on all projects. Our initial setup consists of a minimum 2-hour static session (some projects require 8-hour sessions) and 1,000 epochs on several control points throughout the job site. Where appropriate, Lowe also sets grades for all gutter stakes and sets benchmarks for the contractor. We then run a conventional level loop through our control points, setting temporary or permanent benchmarks depending on the scope of work. We close on every control point as well as the entire leveled loop. All deliverables are submitted according to the file formats laid out in the RFP.

RIGHT-OF-WAY MAPS

Lowe has decades of experience analyzing field data. Our field crews and office staff translate surveying and geospatial data to support mapping, GIS, and database administration, analysis, visualization, and presentation. Given the extent of Lowe expertise, we can present digital and hardcopy maps as required by the client. We regularly develop maps, geospatial dashboards, and other web-based content that provides real-time and interactive digital insight. Similarly, we use the latest GIS software and platforms and possess the full suite of ESRI products and tools to provide analytical and digital products. These tools are further coupled, as required, with AutoCAD and Bentley suites of software as well as Microsoft Azure, Adobe PDF, AWS, Oracle Spatial, MicroStation, Inroads, Open Roads, AutoCAD Civil 3D, Global Mapper, and Leica Infinity, and SQL Server. Our team of experienced CAD technicians is experienced in the most recent software. We can input field information into multiple platforms to create base drawings for many kinds of projects.

If necessary, Lowe's expertise further includes reduction of drone-based aerial imagery and LiDAR from terrestrial, mobile, and aerial platforms. This data can produce very fine-detailed drawings and eliminates the need for return field visits to collect missing information. This is coupled with a multi-step process of quality control and assurance to ensure we deliver a quality product.

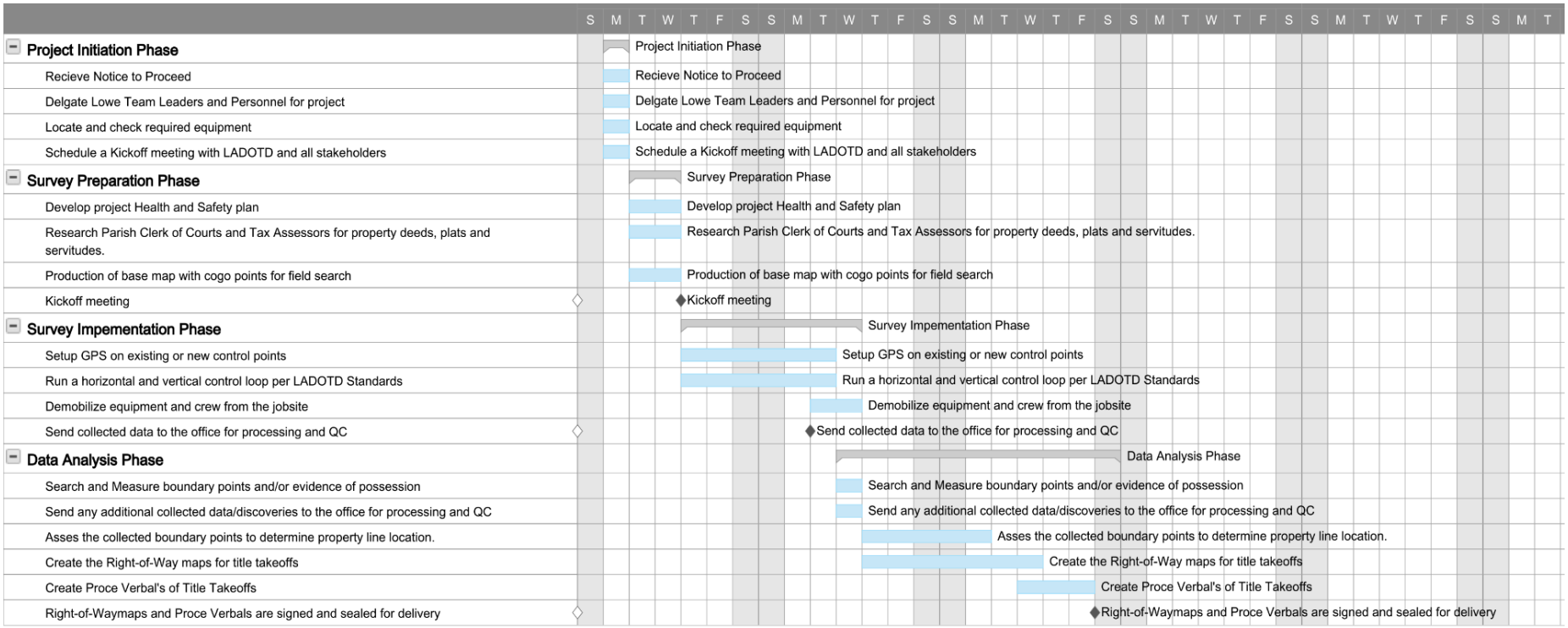
Each right-of-way map will show the adopted project centerline, existing right-of-way, construction limits, relevant topography, parcel line ownerships and locations, as well as required taking lines. Importantly, all work is in full compliance with appropriate principles and objectives set forth in the latest issue of LA DOTD's Location and Survey Manual Addendum A. When all issues have been edited, final drawings and maps are prepared and reviewed by the Professional Land Surveyor. If acceptable, they are stamped and delivered along with the electronic files to the client for final review and acceptance.

TITLE TAKE-OFFS

Lowe Engineers knows the importance of identifying the record owner of property and setting forth accurate deed of ownership reports, which may be needed for acquisition, easements, or permanent domain purposes. A property title search with the Louisiana Clerk of Court's and Tax Assessor's offices are the starting point for examining public records to confirm the property's rightful legal owner. This may also be accomplished through online searches that our title abstractors use on a regular basis. If some a State office does not provide an online portal system, a simple drive to the relevant parish office allows the abstractor to look at the original documents and make necessary copies. Using these assets, LA DOTD can be assured of property ownership, if taxes have been paid, and if there are easements affecting a property. A title search will also reveal any outstanding claims or liens on a property. Lowe has several in-house abstractors with many years of experience using several GIS portals throughout the State of Louisiana. Lowe CAD operators in Louisiana are also experienced in searching the majority of properties being surveyed.

SAMPLE WORK PLAN

The following plan outlines key tasks and objectives that guide our team throughout a project's lifecycle. Through our experience we have learned how to efficiently manage our work to ensure efficiency, accuracy, and timely completion.



EQUIPMENT AND SOFTWARE

Lowe is well-equipped with a comprehensive array of surveying instruments and tools. Our state-of-the-art equipment, combined with our experienced surveying team, enable us to provide accurate and reliable data for our project, ensuring its success. Lowe CAD technicians and Professional Land Surveyors are proficient in the use of many CAD platforms. As with most transportation projects, the Microstation software allows for many aspects to be automated from field to finish requiring less user input and processing to go from a processed raw file into a finished 3D user-defined deliverable. Open Roads and Inroads are design software our technicians have years of experience developing their skills within. Other software programs we use are AutoCAD, Pix4D, and TopoDOT, to name a few. There are others such as Global Mapper and Leica Cyclone that we use to process point cloud files.

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	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Lowe Engineers, LLC	N/A	N/A	N/A	N/A

DO NOT SUM

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

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

21. QA/QC Plan:

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**.

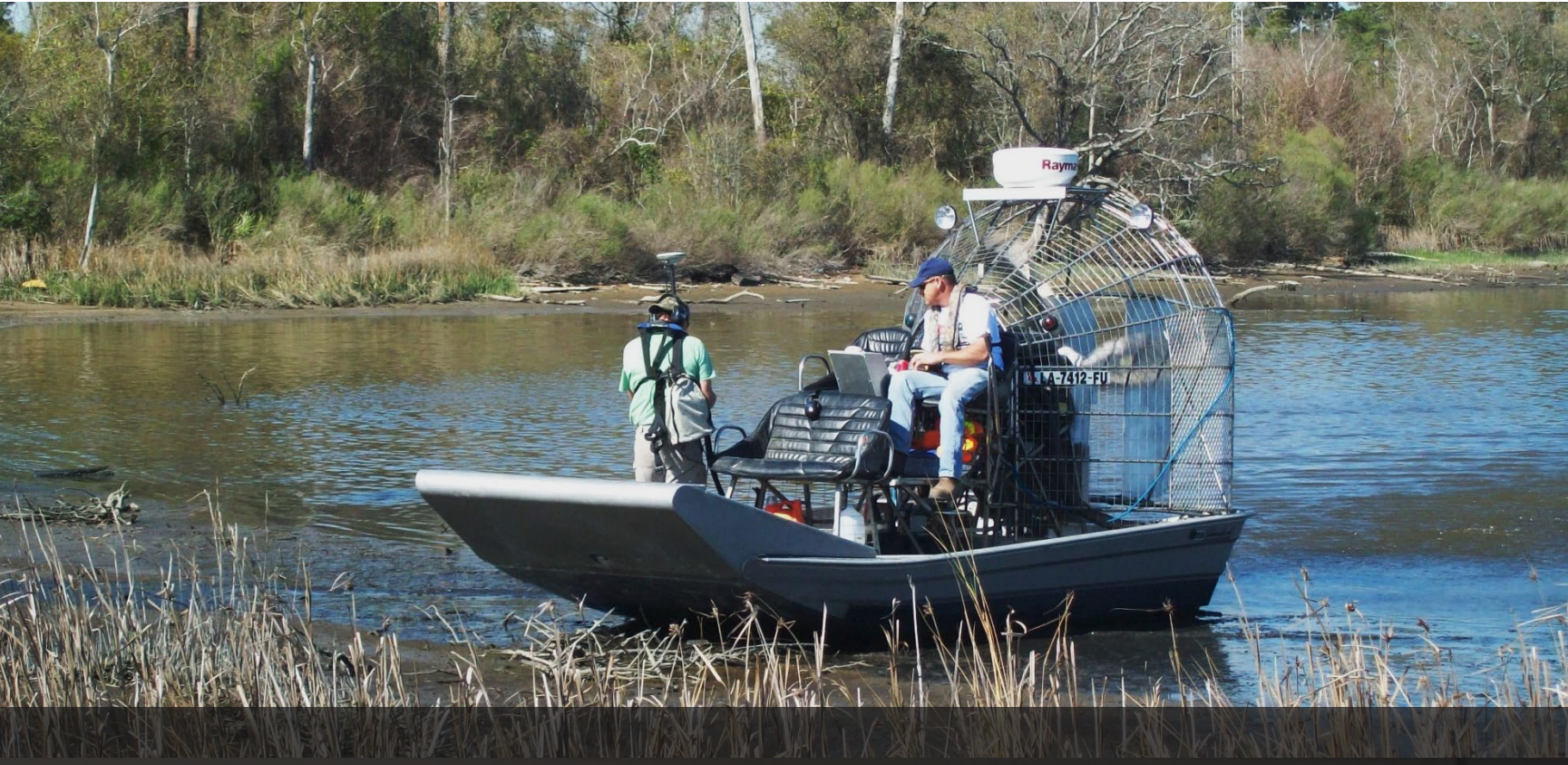
22. <u>Sub-consultant information:</u>

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 as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and email address**	**Phone Number**

23. Location:

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



LOWE
ENGINEERS

1011 North Causeway Boulevard
Suite 34
Mandeville, LA 70471
P: 985.237.9102

www.loweengineers.com