

# **DOTD FORM: 24-102**

PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised January 1, 2023)

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

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

1.	Contract Name as shown in the advertisement	IDIQ Contract for Professional Hydrographic Surveying Services Statewide with Majority of Work in Districts 02, 03, 07, 61, and 62
2.	Contract Number(s) as shown in the advertisement	4400027686
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	1011 North Causeway Boulevard, Suite 34, Mandeville, LA 70471
7.	Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1011 North Causeway Boulevard, Suite 34, Mandeville, LA 70471
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:

September 14, 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.

<u>irm(s):</u> <u>Firm(s)' %:</u> N/A



# 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	100%

# 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:

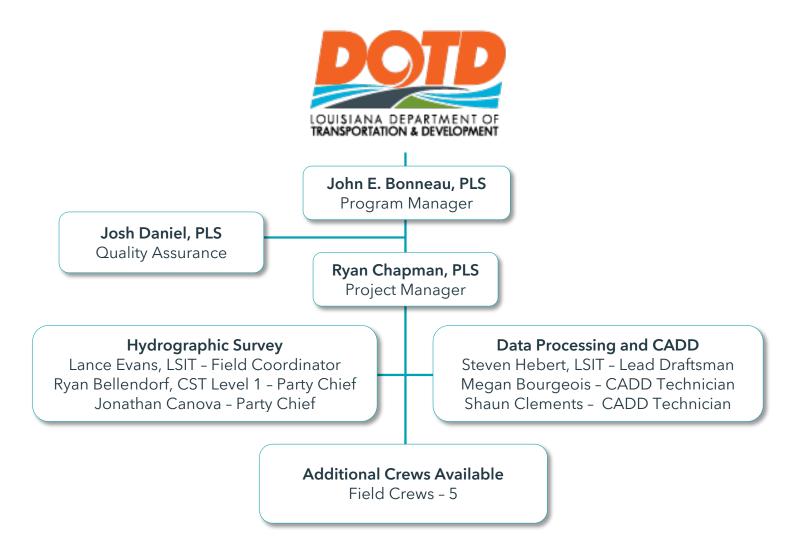
http://wwwsp.dotd.la.gov/Inside LaDOTD/Divisions/Engineering/CCS/Job Qualification/Job%20Classifications%20with%20Descriptions.pdf

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. Organizational Chart:

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	John Bonneau, PLS (Meets both requirements specified in the advertisement.)	Lowe Engineers, LLC	PLS No. 4423	LA	03/31/2025
2	Ryan Chapman, PLS (Meets both requirements specified in the advertisement.)	Lowe Engineers, LLC	PLS No. 5096	LA	09/30/2025



# 16. Staff Experience:

Firm employed by	Lowe Engineers, LLC	Meets both Minimum Perso	nnel Requirements
Name John	E. Bonneau, PLS	Years of relevant experience with this employer	5
Title Professional Land Surveyor		Years of relevant experience with other employer(s)	38
Degree(s) / Years / Specialization		BS, Civil Engineering - Louisiana Tech University, 1976	
		AS, Land Surveying - Louisiana Tech University, 1974	
Active registration number / state / expiration date		No. 4423 / LA / Expires 03/31/2025	
Year registered	1980 Discipline	PLS	
Contract role(s) / b	orief description of responsibilities	Program Manager - Responsible for management and ove standards compliance, quality assurance, and assistance w well as keeping projects on time and on budget.	ith data analysis, as
Experience dates		ant to the proposed contract; i.e., "designed drainage", "designed	
(mm/yy-mm/yy)		should cover the years of experience specified in the applicable MPR	k(s).
03/23 - 05/23	Pearl River Boat Launch Survey		
	<b>Program Manager</b> - Lowe was tasked to identify right-of-way line for the Pearl River turn-around and distinguish ownership of neighboring parcels to the boat launch. Topographical features were collected of the roads, riverbanks and utilities in the area using total station methods. Once our boat with the SonarMite attached was deployed, the bathymetric survey determined the depth of the channel and existing boat launch Combinations of the data were sent to the client.		
12/22 - 03/23		vements Survey - Covington, LA	
	<b>Program Manager</b> - Lowe was tasked to survey and collect data of Pruden Creek for drainage improvement purposes. The scope of work included physical locations of the creek as well as creek defining cross sections to be obtained anywhere from 50' to 500'. All drainage structures were located as well as Live Oak trees 18" DBH and greater with its driplines. Benchmarks were set throughout the site. Project was compiled using Louisiana State Plane Coordinate System with NAVD 1988.		
08/22 - 10/22	Menetre Park Public Boat Laun		
	of the right-of-way for Water Str was measured in by one crew, w	topographic, and bathymetric survey. Work included identifice eet.22222 Once a closed loop of control points was complicable a second crew began the topographic survey to speed ymetric survey determined the depth of the channel and exi	eted, the boundary up the effort. Once
09/22 - 10/22	<b>Pony Drive Sewer Lagoons Sur</b>	vey - East Baton Rouge Parish, LA	
	<b>Program Manager</b> - Lowe was ta	asked with a topographic survey of the sewer lagoons on a pa	rcel of land located
	along Pony Drive in Zachary, Lou	isiana. Topographical data was collected using the Total Sta	tion,



# John E. Bonneau, PLS, contd.

	differential leveling, and static sessions on the outside of the ponds. Boat was deployed in the ponds equipped with SonarMite to obtain top of sludge and bottom of sludge elevations. The data was then brought into Civil 3D where plan and profile sheets were created to show the difference between the sludge and actual ponds bottom.
03/19 - 02/20	<b>Upper Fifth Levee Enlargement Survey, Old River Control Complex - Concordia Parish, LA Program Manager</b> - Hydrographic and topographic survey for proposed levee enlargement. Sections collected at 100-foot intervals along a 3.5-mile part of the existing levee centerline using RTK and/or Total Stations. Cross-sections were collected in flooded portions in three borrow pit areas. If depth exceeded 10 feet, a water shot and sounding were collected. Due to location, crews used airboats, marsh buggies, Jon boats and pirogues to navigate the terrain. Data was processed and reviewed for quality assurance.
09/19 -11/19	West Shore Lake Pontchartrain Levee Expansion Survey - LaPlace, LA  Program Manager - Hydrographic and topographic survey for proposed levee expansion. Sections collected at 100-foot intervals along a 9-mile portion of the proposed levee centerline using RTK and/or Total Stations. Due to location, crews used airboats, marsh buggies, Jon boats and pirogues to navigate the terrain. Based on scope, point spacing along sections did not exceed 25 feet. Data was processed and reviewed for quality assurance.
02/18 - 06/18	<b>Blue Swamp Creek Survey - Covington, LA Program Manager</b> - Topographic survey of approximately 12,500 LF, the length of the creek. Project included data collection to identify the apparent right-of-way of the waterway, along with any and all utilities. Construction benchmarks were also set and cross-sections of the existing waterway were provided at 50' intervals. Baselines were drawn in based on coordinates from 2-hour OPUS static sessions obtained at various points along the route. Abstracting and research was completed for 140 adjoining parcels of land, which were plotted over found and measured property corners to fit and be shown as a background on the final plats. Responsible for management and oversight of survey standards compliance, quality assurance, and assistance with data analysis, as well as keeping projects on time and on budget.
09/16 - 08/17	Ozone Woods Drainage Improvements Survey - St. Tammany Parish, LA  Program Manager - Topographic survey for a large drainage structures survey with data collected on culvert information such as pipe length, material type, and overall condition along inverts of each side of drainage pipe. Deliverables submitted in AutoCAD format.



Firm employed by	Lowe Engineers, LLC		
Name Josh	Daniel, PLS	Years of relevant experience with this employer	23
Title Professional Land Surveyor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		GPS Training, OSHA HazMat Emergency Response Trainin	g, Annual Updates
		for OSHA and First Aid / CPR Certification	
	number / state / expiration date	No. S33665 / AL / Expires 12/31/2023	
Year registered	2013 Discipline	PLS	
Contract role(s) / b	orief description of responsibilities	Quality Assurance - Responsible for quality assurance of p	erformance and in
		preparation of hydrographic survey deliverables.	
Experience dates		vant to the proposed contract; i.e., "designed drainage", "designe	
(mm/yy-mm/yy)		should cover the years of experience specified in the applicable MPF	K(s).
07/23 - 07/23	Compass Minerals Ferry Crossi		T
	Survey Manager - An annual survey of the cable ferry crossing the intracoastal waterway. This crossing is the		
	only access to the Compass Minerals mine in Franklin LA. GPS static observations were collected and post-processed to establish horizontal and vertical coordinates. Sound velocity measurements were taken through the		
	·	imits. Multibeam data was collected using Norbit and Hypac	O
06/23 - 07/23	Rigolets CSX Railroad Bridge S		k sonware.
00/23 - 07/23			PS and conventional
	<b>Survey Manager</b> - Collection of topographic data, initially, of an existing railroad bridge. GPS and conventional methods were used across the bridge for the LiDAR survey. Crews performed a high precision single-beam		
		using a bow-mounted an ODOM 3-degree transducer and h	<u> </u>
04/23 - 07/23	, , ,	vey, Intracoastal Canal - Franklin, LA	)
	<b>Survey Manager</b> - An annual survey of the loading dock. RTK water bottom shots were also collected with the		
	survey limits as a check for multibeam system performance. Sound velocity measurements were taken through		
	the water column. Multibeam data was collected using Norbit and Hypack software. Equipment offsets were		
	measured using a Leica GS 16 and input into the multibeam collection software.		
02/21 - 03/22		etracement Survey, McClellan-Kerr Arkansas River - Arka	
	Survey Manager - Survey included retracing the Government Fee Taking Line (GFTL) for the Public Use Area		
	(PUA) and adjoining sections of the river navigation system. Deed research along with COE-supplied documents		
	were used to search for previously boundary. Control was set near the boat launch off HWY 169. Set and		
		n uploaded to USMART with pictures and GPS data.	
05/20 - 07/20		Guide Levee Survey - St. Charles Parish, LA	
	Survey Manager - Hydrographic and topographic survey. Collected footprints only of roads, ramps, bridges,		
	railroads, levees, drainage struct	tures. Included flood-side cross-sections, use of drone, and la	aser scanner.



Firm employed by Lowe Engineers, LLC		Meets both Minimum Perso	nnel 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, 200	)4	
		AS, Civil Engineering Technology - Louisiana Community a	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) / b	orief description of responsibilities	Project Manager - Responsible for management of field cr		
		survey planning, standards compliance, quality assurance,	and assistance	
		with data analysis.		
Experience dates		vant to the proposed contract; i.e., "designed drainage", "designed		
(mm/yy-mm/yy)	-	should cover the years of experience specified in the applicable MPF	R(s).	
06/23 - 07/23	Rigolets CSX Railroad Bridge S			
		topographic and hydrographic data of an existing railroad bridge crossing. GPS		
		used to establish targets across the bridge for the LiDAR surv	,	
		pick up overhead bridge data. Crews performed a high pre	O	
		a with a minimum 3' water depth using a bow mounted a	n ODOM 3-degree	
07/00 07/00		. LiDAR data was collected with the assistance of a drone.		
07/23 - 07/23	Compass Minerals Ferry Crossi			
		urvey of the cable ferry crossing the intracoastal waterway.		
	only access to the Compass Minerals mine in Franklin LA. Prior to bathymetric data collection Lowe set a deep			
		te. GPS static observations were collected and post-proc		
		tes. Sound velocity measurements were taken through the w		
		ata was collected using Norbit and Hypack software. Equip		
	_	and input into the multibeam collection software. The collect	ed multipeam data	
04/23 - 07/23		d against the previously collected RTK water bottom shots.  vey, Intracoastal Canal - Franklin, LA		
04/23 - 0//23		•		
		vey of the loading dock for Morton Salt in Franklin LA. Prior to bathymetric data		
collection Lowe set a deep rod monument near the jobsite. GPS static observations were collected a		•		
processed to establish horizontal and vertical coordinates. RTK water bottom shots were also collected				
	survey limits as a check for multibeam system performance. Sound velocity measurements were taken through the water column within the survey limits. Multibeam data was collected using Norbit and Hypack software.			
	Title water column within the surv	rey illnits. Multipeam data was collected using Norbit and Hy	pack software.	



# Ryan Chapman, PLS, contd.

	Equipment offsets were measured using a Leica GS 16 and input into the multibeam collection software. Multibeam data was post-processed and checked against previous RTK water bottom shots.
02/21 - 03/22	Moore Bayou PUA Boundary Retracement Survey, McClellan-Kerr Arkansas River - Arkansas County, AK
	Project Manager - Survey included retracing the Government Fee Taking Line (GFTL) for Moore Bayou Public
	Use Area (PUA) and adjoining sections of the GFTL river navigation system. Verified and used primary control
	points to locate and reset parts of the GFTL that existing monumentation cannot be recovered. Deed research
	along with COE-supplied documents were used to search for previously surveyed boundary. Primary control was
	set near the boat launch off HWY 169. Field crews retraced the boundary and collected GPS data. Set and
	recovered monuments were then uploaded to USMART with pictures and GPS data.
05/20 - 07/20	Bonnet Carre Spillway, Upper Guide Levee Survey - St. Charles Parish, LA
	<b>Project Manager</b> - Hydrographic and topographic survey. Collection of footprints only of roads, ramps, and bridges, such as Airline Highway, railroads, etc. Scope further included flood-side cross-sections, use of an sUAS
	(drone), and laser scanner. No utilities except those crossing the levee and drainage structures.
08/19 - 06/20	Orleans East Bank, 17th Street Canal Survey - New Orleans, LA
	<b>Project Manager</b> - Multi-beam hydrographic surveys of the 17 <sup>th</sup> Street Canal to support design of hurricane storm
	damage risk reduction systems.
03/19 - 02/20	Upper Fifth Levee Enlargement Survey, Old River Control Complex - Concordia Parish, LA
	<b>Project Manager</b> - Hydrographic and topographic survey for proposed levee enlargement. Sections collected at 100-foot intervals along a 3.5-mile part of the existing levee centerline using RTK and/or Total Stations. Cross-sections were collected in flooded portions in three borrow pit areas. If depth exceeded 10 feet, a water shot and
	sounding were collected. Due to location, crews used airboats, marsh buggies, Jon boats and pirogues to
	navigate the terrain. Data was processed and reviewed for quality assurance.
06/20 - 08/20	Cow Bayou Hydrographic, Topographic, Boundary, and SUE Surveys - Orange County, TX
	<b>Project Manager</b> - Post-hurricane hydrographic, topographic, and bathymetric survey, including setting three
	new GPS control points. Data on these and four existing monuments, with data from the three new ones
	processed using a 3D constrained adjustment for horizontal and vertical coordinates. Work required 1,000-foot
	cross-sections along proposed levee centerline every 100′ for approx. 1.5 miles at a shot spacing of up to 25′.
09/19 -11/19	West Shore Lake Pontchartrain Levee Expansion Survey - LaPlace, LA
	<b>Project Manager</b> - Hydrographic and topographic survey for proposed levee expansion. Sections collected at
	100-foot intervals along a 9-mile portion of the proposed levee centerline using RTK and/or Total Stations. Due
	to location, crews used airboats, marsh buggies, Jon boats and pirogues to navigate terrain. Based on scope,
	point spacing along sections did not exceed 25 feet. Data was processed and reviewed for quality assurance.



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 Adminis	stration
		Attending South Louisiana Community College, Civil Surve	ying
Active registration number / state / expiration date		No. 0L0666 / NV / Does Not Expire	
		NSPS-Certified Survey Technician, Level 1 / Nationwide / E	xpires 06/30/2024
Year registered	2022 Discipline	LSIT	
Contract role(s) / b	orief description of responsibilities	Field Coordinator - Responsible for hydrographic survey p	<u> </u>
		procedures, reconnaissance, and data evaluation. Collects	field data via
		robotic and GPS methods.	
Experience dates		vant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed	
(mm/yy-mm/yy)	· · · · · · · · · · · · · · · · · · ·	should cover the years of experience specified in the applicable MPR	(S).
07/23 - 07/23	Compass Minerals Ferry Cross		Th:
		survey of the cable ferry crossing the intracoastal waterway.	•
	,	linerals mine in Franklin LA. GPS static observations were cal and vertical coordinates. Sound velocity measurements were	•
	• ·	limits. Multibeam data was collected using Norbit and Hypack software.	
06/23 - 07/23	Rigolets CSX Railroad Bridge		C SOILWAIC.
00/20 0//20		gineers was tasked with collecting topographic and hydro	graphic data of an
		g. GPS and conventional methods were used to establish targe	
		erformed a high precision single-beam hydrographic survey	<u> </u>
	•	ree transducer and Hypack software.	
04/23 - 07/23		vey, Intracoastal Canal - Franklin, LA	
	Survey Technician - An annual	survey of the loading dock. RTK water bottom shots were also	o collected with the
	survey limits as a check for mul-	tibeam system performance. Sound velocity measurements v	were taken through
	the water column. Multibeam of	data was collected using Norbit and Hypack software. Equip	oment offsets were
	measured using a Leica GS 16 a	and input into the multibeam collection software.	
02/21 - 03/22	<b>Moore Bayou PUA Boundary F</b>	Retracement Survey, McClellan-Kerr Arkansas River - Arka	nsas County, AK
	_	luded retracing the Government Fee Taking Line (GFTL) for t	
	, ,	f the river navigation system. Verified and used primary cont	•
	'	onumentation could not be recovered. Deed research along	
		for previously boundary. Control was set near the boat laund	ch off HWY 169. Set
	and recovered monuments were then uploaded to USMART with pictures and GPS data.		



Firm employed by Lowe Engineers, LLC				
Name Ryan	Bellendorf, CST Level I	Years of relevant experience with this employer	5	
Title Party Chief		Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization		High School Diploma, Covington High School, 2007		
Active registration	number / state / expiration date	NSPS-Certified Survey Technician, Level 1 / Nationwide / E	xpires 06/30/2024	
Year registered	N/A Discipline	N/A		
	orief description of responsibilities	Party Chief - Responsible for executing and evaluating field hydrographic, right-of-way, and control survey data with elfield data via robotic and GPS methods.	levations. Collects	
Experience dates (mm/yy–mm/yy)	intersection", etc. Experience dates s	ant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed hould cover the years of experience specified in the applicable MPF		
03/23 - 05/23	Pearl River Boat Launch Survey			
	<b>Party Chief</b> - Lowe was tasked to identify right-of-way line for the Pearl River turn-around and to distinguing ownership of neighboring parcels to the boat launch. Topographical features were collected of the road riverbanks and utilities in the area using total station methods. Once our boat with the SonarMite attached we deployed, the bathymetric survey determined the depth of the channel and existing boat launch. Combination of the data were sent to the client			
12/22 - 03/23	Pruden Creek Drainage Improv	vements Survey - Covington, LA		
	Party Chief - Lowe was tasked to survey and collect data of Pruden Creek for drainage improvement purpose. The scope of work included physical locations of the creek as well as creek defining cross sections to be obtained anywhere from 50' to 500'. All drainage structures were located as well as Live Oak trees 18" DBH and great with its driplines. Benchmarks were set throughout the site. Project was compiled using Louisiana State Plan Coordinate System with NAVD 1988.			
08/22 - 10/22	Menetre Park Public Boat Laun	ch Survey - Covington, LA		
	<b>Party Chief</b> - Boundary, topographic, and bathymetric survey. Work included identification and location of the right-of-way for Water Street. Once a closed loop of control points was completed, the boundary was measured in by one crew, while a second crew began the topographic survey to speed up the effort. Once our boat was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.			
09/22 - 10/22	<b>Pony Drive Sewer Lagoons Sur</b>	vey - Zachary, East Baton Rouge Parish, LA		
	Party Chief - Lowe was tasked with a topographic survey of the sewer lagoons on a parcel of land located along Pony Drive. Topographical data was collected using the Total Station, differential leveling, and static sessions of the outside of the ponds. A boat was deployed that was equipped with SonarMite to obtain top of and bottom of sludge elevations. Data was then put into Civil 3D where plan and profile sheets were created to show the difference between sludge and actual ponds bottom.			



Firm employed by	Lowe Engineers, LLC		
Name Jonat	han Canova	Years of relevant experience with this employer	7
Title Party Chief		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		General Education Development, Franklin High School, 20	12
Active registration	number / state / expiration date	N/A	
Year registered	N/A Discipline	N/A	
	rief description of responsibilities	Party Chief - Responsible for executing and evaluating field hydrographic, right-of-way, and control survey data with elfield data via robotic and GPS methods.	evations. Collects
Experience dates		ant to the proposed contract; i.e., "designed drainage", "designed	
(mm/yy-mm/yy)	2	should cover the years of experience specified in the applicable MPR	k(s).
03/23 - 05/23	Pearl River Boat Launch Survey		
	<b>Party Chief</b> - Lowe was tasked to identify right-of-way line for the Pearl River turn-around and to distinguis ownership of neighboring parcels to the boat launch. Topographical features were collected of the roads riverbanks and utilities in the area using total station methods. Once our boat with the SonarMite attached was deployed, the bathymetric survey determined the depth of the channel and existing boat launch. Combination of the data were sent to the client.		
12/22 - 03/23	Pruden Creek Drainage Improvements Survey - Covington, LA  Party Chief - Lowe was tasked to survey and collect data of Pruden Creek for drainage improvement purposes. The scope of work included physical locations of the creek as well as creek defining cross sections to be obtained anywhere from 50' to 500'. All drainage structures were located as well as Live Oak trees 18" DBH and greater with its driplines. Benchmarks were set throughout the site. Project was compiled using Louisiana State Plane Coordinate System with NAVD 1988.		
08/22 - 10/22	<b>Menetre Park Public Boat Laun</b>	ch Survey - Covington, LA	
	<b>Party Chief</b> - Boundary, topographic, and bathymetric survey. Work included identification and location of the right-of-way for Water Street. Once a closed loop of control points was completed, the boundary was measured in by one crew, while a second crew began the topographic survey to speed up the effort. Once our boat was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.		
09/22 - 10/22		vey - Zachary, East Baton Rouge Parish, LA	
	Pony Drive. Topographical data with the outside of the ponds. A boat	ith a topographic survey of the sewer lagoons on a parcel of was collected using the Total Station, differential leveling, an was deployed that was equipped with SonarMite to obtain hen put into Civil 3D where plan and profile sheets were cactual ponds bottom.	nd static sessions on top of and bottom



Firm employed by	Lowe Engineers, LLC				
Name Steve	en Hebert, LSIT, CST Level I	Years of relevant experience with this employer	5		
Title Land	Surveyor in Training	Years of relevant experience with other employer(s)	20		
Degree(s) / Years /	'Specialization	BS, General Studies - Southeastern Louisiana University, 2015 30 Hours Surveying Courses - University of Wyoming, 2018 Certified Draftsman - Delgado Community College, New Orleans			
Active registration	number / state / expiration date	No. 0000733 / LA / Expires 09/30/2024 NSPS-Certified Survey Technician, Level 1 / Nationwide / E			
Year registered	2022 Discipline	LSIT			
Contract role(s) / b	orief description of responsibilities	Lead Draftsman - Management of data analysis, maps, and deliverables clearly illustrating hydrographic elevations.			
Experience dates		ant to the proposed contract; i.e., "designed drainage", "designed			
(mm/yy-mm/yy)		should cover the years of experience specified in the applicable MPR	k(s).		
03/23 - 05/23	Pearl River Boat Launch Survey				
	<b>Lead Draftsman</b> - Lowe was tasked to identify right-of-way line for the Pearl River turn-around and to distinguis ownership of neighboring parcels to the boat launch. Topographical features were collected of the road riverbanks and utilities in the area using total station methods. Once our boat with the SonarMite attached was deployed, the bathymetric survey determined the depth of the channel and existing boat launch. Combination of the data were sent to the client.				
12/22 - 03/23	_	vements Survey - Covington, LA			
	<b>Lead Draftsman</b> - Lowe was tasked to survey and collect data of Pruden Creek for drainage improvement purposes. The scope of work included physical locations of the creek as well as creek defining cross sections to be obtained anywhere from 50' to 500'. Benchmarks were set. Project was compiled using Louisiana State Plane Coordinate System with NAVD 1988.				
08/22 - 10/22	Menetre Park Public Boat Laun	ch Survey - Covington, LA			
	<b>Lead Draftsman</b> - Boundary, topographic, and bathymetric survey. Work included identification and location of the right-of-way for Water Street. Once a closed loop of control points was completed, the boundary was measured in by one crew, while a second crew began the topographic survey to speed up the effort. Once our boat was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.				
09/22 - 10/22	<b>Pony Drive Sewer Lagoons Sur</b>	vey - Zachary, East Baton Rouge Parish, LA			
	along Pony Drive. Topographica sessions on the outside of the po	ked with a topographic survey of the sewer lagoons on a pa aldata was collected using the Total Station, differential onds. A boat was deployed that was equipped with SonarM s. Data was then put into Civil 3D where plan and profile she dge and actual ponds bottom.	leveling, and static lite to obtain top of		



Firm employed by	Lowe Engineers, LLC				
Name Mega	an Bourgeois	Years of relevant experience with this employer	4		
Title CADI	O Technician	Years of relevant experience with other employer(s)	0		
Degree(s) / Years /	Specialization	High School Diploma, 2016			
Active registration	number / state / expiration date	N/A			
Year registered	N/A Discipline	N/A			
Contract role(s) / brief description of responsibilities		CADD Technician - Responsible for processing field data, collected information, and preparing hydrographic drawin calculations of survey data in AutoCAD. Ensures correct daillustrations.	gs, with ta is collected for		
Experience dates		ant to the proposed contract; i.e., "designed drainage", "designed			
(mm/yy–mm/yy) 03/23 - 05/23		should cover the years of experience specified in the applicable MPR	<b>L</b> (S).		
03/23 - 03/23	Pearl River Boat Launch Survey - Pearl River, LA  CADD Technician - Lowe was tasked to identify right-of-way line for the Pearl River turn-around and to distinguis ownership of neighboring parcels to the boat launch. Topographical features were collected of the road riverbanks and utilities in the area using total station methods. Once our boat with the SonarMite attached was deployed, the bathymetric survey determined the depth of the channel and existing boat launch. Combination of the data were sent to the client.				
12/22 - 03/23	Pruden Creek Drainage Improvements Survey - Covington, LA  CADD Technician - Lowe was tasked to survey and collect data of Pruden Creek for drainage improvement purposes. The scope of work included physical locations of the creek as well as creek defining cross sections to be obtained anywhere from 50' to 500'. All drainage structures were located as well as Live Oak trees 18" DBH and greater with its driplines. Benchmarks were set throughout the site. Project was compiled using Louisiana State Plane Coordinate System with NAVD 1988.				
08/22 - 10/22	Menetre Park Public Boat Launch Survey - Covington, LA  CADD Technician - Boundary, topographic, and bathymetric survey. Work included identification and location of the right-of-way for Water Street. Once a closed loop of control points was completed, the boundary was measured in by one crew, while a second crew began the topographic survey to speed up the effort. Once our boat was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.				
09/22 - 10/22	boat was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.  Pony Drive Sewer Lagoons Survey - Zachary, East Baton Rouge Parish, LA  CADD Technician - Lowe was tasked with a topographic survey of the sewer lagoons on a parcel of land located along Pony Drive. Topographical data was collected using the Total Station, differential leveling, and static sessions on the outside of the ponds. A boat was deployed that was equipped with SonarMite to obtain top of and bottom of sludge elevations. Data was then put into Civil 3D where plan and profile sheets were created to show the difference between sludge and actual ponds bottom.				



Firm employed by	Lowe Engineers, LLC					
Name Shau	n Clements	Years of relevant experience with this employer	1			
Title CADI	D Technician	Years of relevant experience with other employer(s)	7			
Degree(s) / Years /	Specialization	AS, Applied Science Computer Drafting and Design - ITT T 2015	echnical Institute,			
Active registration	number / state / expiration date	N/A				
Year registered	N/A Discipline	N/A				
Contract role(s) / brief description of responsibilities		CADD Technician - Responsible for processing field data, of collected information, and preparing hydrographic drawing calculations of survey data in AutoCAD. Ensures correct data illustrations.	gs, with ta is collected for			
Experience dates		ant to the proposed contract; i.e., "designed drainage", "designed				
(mm/yy-mm/yy)		should cover the years of experience specified in the applicable MPR	l(s).			
03/23 - 05/23	Pearl River Boat Launch Survey					
	<b>CADD Technician</b> - Lowe was tasked to identify right-of-way line for the Pearl River turn-around and to distinguish ownership of neighboring parcels to the boat launch. Topographical features were collected of the roads, riverbanks and utilities in the area. Once our boat with the SonarMite attached was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.					
12/22 - 03/23	Pruden Creek Drainage Improv	vements Survey - Covington, LA				
	<b>CADD Technician</b> - Lowe was tasked to survey and collect data of Pruden Creek for drainage improvement purposes. The scope of work included physical locations of the creek as well as creek defining cross sections to be obtained anywhere from 50' to 500'. All drainage structures were located as well as Live Oak trees 18" DBH and greater with its driplines. Benchmarks were set throughout the site. Project was compiled using LSPC system with NAVD 1988.					
08/22 - 10/22	Menetre Park Public Boat Laun	ch Survey - Covington, LA				
	<b>CADD Technician</b> - Boundary, topographic, and bathymetric survey. Work included identification and location of the right-of-way for Water Street. Once a closed loop of control points was completed, the boundary was measured in by one crew, while a second crew began the topographic survey to speed up the effort. Once our boat was deployed, the bathymetric survey determined the depth of the channel and existing boat launch.					
09/22 - 10/22	<b>Pony Drive Sewer Lagoons Sur</b>	vey - Zachary, East Baton Rouge Parish, LA				
	along Pony Drive. Topographica of the ponds. A boat was deplo	sked with a topographic survey of the sewer lagoons on a pall data was collected with differential leveling, and static sessible byed that was equipped with SonarMite to obtain top and to Civil 3D where plan and profile sheets were created to sals bottom.	ions on the outside I bottom of sludge			



## 17. Firm Experience:

Firm name	Lowe Engineers, LLC		Past Performance Evaluation Discipline(s)*	Survey
Project name	Rigolets Bridge CSX Railroad Survey		Firm responsibility (prime or sub?) Prime	
Project number	N/A	Owner's name	HDR, Inc.	
Project location	Rigolets, LA		Owner's Project Manager Nabil Hamadan	İ
Owner's address, phor	Owner's address, phone, email 9999 Carver Road, #210, Cincinnati, OH 45242, 513.984.7500, nabil.hamadani@hdrinc.com			
Services commenced by this firm (mm/yy) 06/23		06/23	Total consultant contract cost (\$1,000's)	\$40,000
Services completed by this firm (mm/yy) 07/23		Cost of consultant services provided by this firm (\$1,000's)	\$40,000	

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

Lowe Engineers was tasked with collecting topographic and hydrographic data of an existing railroad bridge crossing. RTK Base Rovers were used to collect topographic data in areas not affected by overhead bridge structures. Conventional survey methods were used in areas GPS would not allow. LiDAR data was collected across the bridge to pick up overhead bridge data. Crews performed a high precision single-beam hydrographic survey of the area with a minimum 3' water depth using a bow-mounted

ODOM 3-degree transducer and Hypack software. RTK water bottom shots were also collected with the survey limits as a check for single-beam system performance. Sound velocity measurements were taken through the water column within the survey limits. The collected single-beam data was post-processed and checked against the previously collected RTK water bottom shots.

LiDAR data was collected with the assistance of a drone. We used the DJI Matrice 600-series with a Velodyne LiDAR unit. For control and point-cloud adjustment, we set targets along both sides of the bridge at a distance no longer than 500'. We also collected GPS static readings at a speed of 5 hertz (0.2 seconds) for a minimum of 2 hours. This GPS static was then processed through OPUS and used to assist us in the point-cloud creation procedure. After field work was completed, we used Inertial Explorer and Scanlook PC,



two programs that, when combined, provide a georeferenced and adjusted point-cloud (LAZ or LAS file). Once we had the LAS or LAZ file, we ran some quick checks with the help of a program called Global Mapper. The last step was data extraction. For this, we used TopoDOT, an application that works inside MicroStation that is used to import and extract 3D models from point clouds.

Project was completed on time and on budget..

Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT

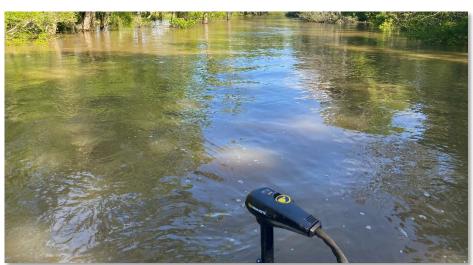


Firm name	Lowe Engineers, LLC			Past Performance Evaluation Discipline(s)*	Survey
Project name	Pearl River Boat Launch Survey		ch Survey	Firm responsibility (prime of	or sub?) Sub
Project number	N/A		Owner's name	Town of Pearl River	
Project location	Pearl River, LA			Owner's Project Manager Andre Monnet	
Owner's address, pho	ne, email	1011 N. Caus	seway Blvd, Suite	e 19, Mandeville, LA 70471, 985.624.5001, andre@	<sup>®</sup> pi-aec.com
Services commenced by this firm (mm/yy) 03/23		03/23	Total consultant contract cost (\$1,000's)	\$16,250	
Services completed by	y this firm	(mm/yy)	05/23	Cost of consultant services provided by this firm (\$1,00	00's) \$16,250
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)					

Lowe was tasked to identify the right-of-way line for the Pearl River turn-around and to distinguish ownership of neighboring parcels to the boat launch. Topographical features were collected of the roads, riverbanks and utilities in the area using total station methods. Once our boat with the SonarMite attached was deployed, the bathymetric survey determined the depth of the channel and existing boat launch. Combinations of the data were sent to the client.

Project was efficiently completed on time and under budget.





Team Members Involved: John Bonneau, PLS, Ryan Bellendorf, Steven Hebert, LSIT, Shaun Clements



Firm name	Lowe Engineers, LLC		Past Performance Evaluation Discipli	ne(s)*	urvey
Project name	Pruden Creek Drainage Improvements Survey Firm responsibility			sibility (prime or sub?)	Prime
Project number	EN22000259	Owner's name	St. Tammany Parish		
Project location	Covington, LA		Owner's Project Manager	Daniel Hill	
Owner's address, phor	Owner's address, phone, email 21490 Koop Drive, Mandeville, LA 70471, 985.898.2552, dphill@stpgov.com				
Services commenced by this firm (mm/yy) 12/22		12/22	Total consultant contract cost (\$1,000's)		\$45,470
Services completed by this firm (mm/yy) 03/23		Cost of consultant services provided by	this firm (\$1,000's)	\$45,470	

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

Lowe was tasked to survey and collect data from Pruden Creek for drainage improvement purposes. The scope of work included physical locations of the creek as well as creek-defining cross sections to be obtained anywhere from 50' to 500'. All drainage structures were located as well as live oak trees 18" DBH and greater with its driplines. Benchmarks were set throughout the site. The project was compiled using Louisiana State Plane Coordinate System with North American Vertical Datum (NAVD) 1988.

Project was efficiently completed on time and under budget.



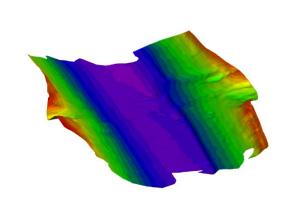
Team Members Involved: John Bonneau, PLS, Ryan Bellendorf, Steven Hebert



Firm name	Lowe Engineers, LLC		Past Performance Evalu	uation Discipline(s	s)* S	urvey	
Project name	Compass Minerals Ferry Crossing Surve		vey .	Firm responsibil	ity (prime or sub?)	Prime	
Project number	N/A		Owner's name	Compass Minerals			
Project location	Intracoa	stal Canal, Frai	nklin, LA	Owner's Pro	oject Manager	Paul Martin	
Owner's address, phone, email 1382 Cote Blanche Road, Franklin,			nklin, LA 70538, 337.92	3.7514, martinp	@compassmine	als.com	
Services commenced by this firm (mm/yy) 07/23		07/23	Total consultant contract of	cost (\$1,000's)		\$10,000	
Services completed by this firm (mm/yy) 07/23		Cost of consultant services	s 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.)

Lowe Engineers was tasked with an annual survey of the cable ferry crossing the intracoastal waterway. This crossing is the only access to the Compass Minerals mine in Franklin LA. Prior to bathymetric data collection, Lowe set a deep rod monument near the jobsite. GPS static observations were collected and post-processed to establish horizontal and vertical coordinates. Onboard the 21' aluminum-hull "Elise" crews performed a high precision multibeam hydrographic survey of the area with a minimum 3' water depth using a port-mounted Norbit Winghead multibeam, POSMV Ocean Master inertial measurement unit for motion. An RTK base was set on the previously established monument and the RTK Rover was mounted onboard the Elise to continuously collect elevation data on the water surface during multibeam collection. As a secondary QC, water surface shots were collected and recorded through



the day with a secondary RTK system and checked against the continuously collected RTK data onboard the Elise. RTK water bottom shots were also collected with the survey limits as a check for multibeam system performance. Sound velocity measurements were taken through the water column within the survey limits. Multibeam data was collected using Norbit and Hypack software. Equipment offsets were measured using a Leica GS 16 and input into the multibeam collection software. The collected multibeam data was post-processed and checked against the previously collected RTK water bottom shots. As per the scope a 3' post-processed sort was provided to the client along with TIN file and AutoCAD drawing.

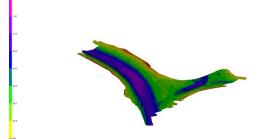
Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT

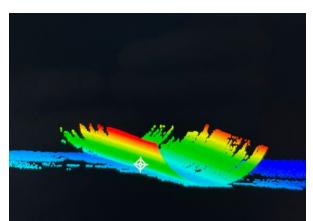


Firm name	Lowe Engineers, LLC		Past Performance Evaluation Discipline(s)*	Survey
Project name	Morton Salt Loading Dock Survey		Firm responsibility (prime or sub?) Prime	
Project number	N/A	Owner's name	Morton Salt	
Project location	Weeks Bay, Carlin Are	ea, New Iberia, LA	Owner's Project Manager Eric Gaudreau	
Owner's address, phor	ne, email 11217 Morto	n Road, New Iber	ia, LA 70560, 337.256.6956, egaudreau@mortonsalt.c	com
Services commenced by this firm (mm/yy) 04/23			Total consultant contract cost (\$1,000's)	\$12,000
Services completed by this firm (mm/yy) 05/23		Cost of consultant services provided by this firm (\$1,000's)	\$12,000	

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

Lowe Engineers was tasked with an annual survey of the loading dock for Morton Salt. Prior to bathymetric data collection, Lowe set a deep rod monument near the jobsite. GPS static observations were collected and post-processed to establish horizontal and vertical coordinates. Onboard the 21' aluminum-hull "Elise" crews performed a high precision multibeam hydrographic survey of the area with a minimum 3' water depth using a port-mounted Norbit Winghead multibeam, POSMV Ocean Master inertial measurement unit for motion. An RTK base was set on the previously established monument and the RTK Rover was mounted onboard the Elise to continuously collect elevation data on the water surface during multibeam collection. As a secondary QC, water surface shots were collected and recorded through the day with a secondary RTK system and checked against the continuously collected RTK data onboard the Elise. RTK water bottom shots were also collected with the survey limits as a check for multibeam system performance. Sound velocity measurements were taken through the water column within the survey limits. Multibeam data was collected using Norbit and Hypack software. Equipment offsets were measured using a Leica GS 16 and input into the multibeam collection software. The collected multibeam data was post-processed and checked against the previously collected RTK water bottom shots. The post-processed data found a few interesting underwater features that turned out to be barge container covers that were blown into the waterway during a storm. As per the scope a 3' postprocessed sort was provided to the client along with TIN file and AutoCAD drawing.





Team Members Involved: Ryan Chapman, PLS, Lance Evans, LSIT



## 18. Approach and Methodology:

Provide a description of how the work will be performed and provide the proposed project schedule. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. **Four-page limit.** 

### **INTRODUCTION**

Lowe Engineers, LLC (Lowe), a Service-Disabled Veteran-Owned Small Business, operates two offices covering the State of Louisiana with offices in Mandeville and Scott. The location of the offices allows Lowe to be anywhere in the state for a hydrographic survey within hours of receiving a notice to proceed. This allows Lowe to support LA DOTD's need for statewide hydrographic surveying services with the majority of work in Districts 02. 03, 07, 61 and 62, across southwest and southeast Louisiana. Our longstanding surveying experience in the state, along with our staff's understanding of the type of work and level of expectation LA DOTD has for surveying services, means we are very familiar with applicable training required and excel in meeting or exceeding training requirements.

Our office in Mandeville, LA will be the principal office performing the services described in the scope of work. Our background performing high-precision surveys, hydrographic surveys, topographic cross-sections, and setting horizontal and vertical control is extensive. LA DOTD can be assured that the job will be performed on-schedule and correct the first time. 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), and digital data collectors. Some of the less traditional equipment that our survey crews have are sUAS (drones), terrestrial LiDAR scanners, side-scan sonar, and airboats. Whatever projects present, our survey crews are accustomed to and equipped for the range of work environments across the state.





#### **PAST PERFORMANCE**

Lowe has considerable hydrographic and topographic surveying experience in Louisiana. We have more than 40 years of work in Louisiana on both government and private projects. The Mandeville office under the former name of John E. Bonneau & Associates, Inc., before being acquired by Lowe in 2019, has provided surveying services in the state since its founding in 1983. Lowe prides itself on being a company that provides our clients with high quality deliverables in the most timely and efficient manner possible. We have held multiple CPRA, US Army Corps of Engineers, and other contracts in south Louisiana so our crews are very experienced working in the terrain and possess intimate knowledge of the region, its rivers, lakes, bayous, and bays.



### **CAPACITY**

Our Program Manager, John E. Bonneau, PLS, has over 38 years of professional land surveying experience, serving a diverse list of clients throughout the southern United States, and particularly Louisiana. This experience has given him the expertise necessary to handle unique demands and time constraints of a wide spectrum of projects. John has performed and prepared geodetic, utility, topographic, hydrographic, and utilities surveys. His background as both a Project Manager and Professional Land Surveyor makes him extremely qualified to manage this LA DOTD contract.

Personnel assigned to this contract possess over 145 years of collective surveying experience. Moreover, we have 5 field crews of hydrographic surveyors who can quickly augment the proposed team if necessary.

### **OUR COMMITMENT**

Lowe Engineers 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 products and services, while meeting the highest moral and ethical standards in the performance of our jobs. Our clients value this and have been extremely satisfied with the level of service we have provided on their projects. We have the technical skills, management structure, resources, equipment, and expertise in best practices to carry out our commitment. Our objective is to build positive and responsive working relationships 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.

# **EQUIPMENT**

We understand that compilation of survey data is as important to a project's successful completion as the collection itself. Because of this, we hold regular meetings throughout the survey process to ensure all aspects are 100% covered. Illustrated in the table that follows are all the tools we utilize in our work.

Company Equipment List						
Field Equipment		Marine Eq	Marine Equipment			
Leica GPS Equipment (RTI	(/Static)	Cabined-Boats				
GS-15	4	Length/Make	Propulsion			
GS-16	10	33' Hanko's	Honda 150 (2)			
GS-18	15	25' Sea Ark	E-Tec 75 HP (2)			
Leica Robotic Total Sta	tions	Center-Cons	sole Boats			
TS-12	4	18' Silver G3	Yamaha 60 HP			
TS-13	2	18' Brown G3	Yamaha 60 HP			
TS-15	2	16' Carolina Skiff	Yamaha 50 HP			
TS-16	12	Airbo	ats			
Levels		17' Alumitech	3-Blade Prop			
Auto-levels (NA700 Series)	15	22' Alumitech	4-Blade Prop			
Digital Levels (DNA Series)	3	Hydrographic Sensors				
Vehicles		Model	Quantity			
2-wheel drive train	20	Multibeam	1			
4-wheel drive train	20	Single-Beam	5			
ATV (4-wheeler)	2	Odom MKIII	2			
UTV (side-by-side)	2	Odom CV200	2			
Unmanned Aerial Syst	ems	Magnetometer	1			
Mavic 2 Pro (rotary-wing)	2	Side-Scan Sonar	1			
3DR Solo (rotary-wing)	3	Office Equipment				
eBee RTK (fixed-wing)	1	Computers	50			
S.O.D.A. 20mp Camera	1	Hypack Licenses	6			
DJI Matrice (rotary-wing)	1	AutoCAD Licenses	12			
Veledyne HDL-32E LiDAR	1	MicroStation Licenses	8			

#### **SAMPLE SCHEDULE**

Below is an example of a schedule for a typical hydrographic survey.

- Day 1-2
  - o Receive project Notice to Proceed.
  - o Locate and check required equipment.
  - Mobilize equipment and crew to jobsite.
  - o Develop project Health and Safety Plan.
- Day 3
  - Meet with an on-site representative (if required).
  - o Locate and check existing control or establish new control, if required.
  - o Deploy vessel and run required checks.
  - o Start collecting required data.
  - o Send collected data to the office for processing and quality assurance.
- Day 4-7
  - o Set up GPS on existing control.
  - o Deploy vessel and run required checks.
  - o Send collected data to the office for processing and quality assurance.
- Day 8
  - o Demobilize equipment and crew from the job site.
  - Send the remaining collected data to the office for processing and quality assurance.
- Day 9
  - Crew PC will meet office processor to review how the data was collected and answer questions the processor may have.
- Day 10
  - o Send processed data to Project Manager for review.
  - o Make the required changes or adjustments, if required.
- Day 11
  - o Send required deliverables to client for review









# 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



<sup>\*</sup> 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.

<sup>\*\*</sup> Round to the nearest dollar. <u>Do not</u> 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.



