

REQUEST FOR QUALIFICATIONS
GIS MAPPING SERVICES
Mobile County, Alabama
October 4, 2019

In a cooperative effort, the City of Mobile, Alabama, Mobile County Commission and Mobile Area Water and Sewer System (MAWSS) (hereafter collectively referred to as the “Participants”) are soliciting statements of interest from qualified firms and individuals interested in providing professional mapping services.

The Project, **Mobile County Planimetric Updates**, will consist of updating select planimetric features within Mobile County. **Attachment A** contains a detailed description of the scope of work to be performed and **Attachment B** contains detailed information on the features. This project will extend over two separate flyovers with the final flight in 2020. Sample data, imagery and associated metadata are available for download at <https://mapscityofmobile.box.com/s/1zlkkykfbxhw4cq7nqhwxi9mqb2i91ez> . Data is also viewable at <http://cityofmobile.maps.arcgis.com/apps/webappviewer/index.html?id=e8e3123a1a2c4c959d106643ebcde799> .

Firms interested in performing the work will be considered based on written responses to this Request for Qualifications. All applicants must submit their qualifications and list any prior experience with projects similar in nature and scope to the above services being requested. Please include the following information in your **Qualifications Submission**:

1. A cover letter that includes:
 - Applicant information including name, address, corporate form, ownership, and relationship to other corporate identities such as subsidiaries and dbas.
 - Why you are interested in performing this work.
 - Key corporate officers.
 - Applicant locations, indicating the location(s) that will primarily support this project.
 - Applicant professional licenses, designations, and certifications. Please include evidence.
 - Key point of contact regarding your submission.

2. A summary of projects that show the qualifications and experience of your firm in performing projects similar in scope and substance to this project. Please indicate for each project:
 - Customer, location, and time period.
 - Scope of work accomplished.
 - Unique technical challenges and how your firm met them.
 - Subcontractors you used, if any.
 - Customer reference for each project.

3. Qualifications and experience of individual team members that will contribute to this project. Please include:
 - Your proposed team makeup and key positions.
 - Short professional biography for each person, highlighting experience relevant to this project. Please include professional certifications and license numbers.

4. A narrative that, based on your experience performing similar projects, indicates your expected approach to this project (These questions will help the Participants understand your philosophy as applied to a practical problem and may not reflect the actual work plan developed upon selection):
- Your plan to complete the project. Please include key milestones and work processes.
 - Equipment and software products you intend to use. Please focus on technical equipment most relevant to the tasks.
 - Subcontractors you would intend to employ. **Please complete Attachment C - “City of Mobile Subcontracting and Major Supplier Plan”.**
 - Key risk areas for delay or project failure and how you would plan to mitigate those risks.
 - Time period you would expect to accomplish the work.
 - Please indicate your description of success in completion of this project.

Submittals will be rated according to the following criteria:

Professional qualifications and experience with planimetric data.	40 pts
Technical approach	30 pts
DBE involvement	10 pts
Proposed schedule to complete the work	10 pts
Availability of project personnel	10 pts

The firm that is selected will be notified and a contract negotiated. The contract will be for a period coinciding with the required project submittal deadlines established by the participants. Additional services related to this or other projects of a similar nature may be contracted under this solicitation at the option of the Participants. The Participants reserve the right to reject any or all submittals and waive any irregularities or informalities in the selection process.

Questions regarding this RFQ should be addressed to Patricia Creamer at creamer@cityofmobile.org and should be received no later than October 25, 2019. All questions and responses will be available at <https://mapscityofmobile.box.com/s/iqn7brgw3nwetk15ziv958s8iuijyh0l>.

Three (3) original copies of the Qualifications must be sealed and properly labeled as “**Mobile County Planimetric Updates**” and are to be submitted to Patricia Creamer, GIS Administrator, City of Mobile, 205 Government Street, Room 452 South, Mobile, Alabama 36602 on or before 3 pm on Friday, November 1st, 2019. All submittals received by the deadline will be evaluated, and a selection will be made by the Participants.

ATTACHMENT A

SCOPE OF WORK

Mobile County, Alabama Planimetric Updates

1. Introduction

This scope of work covers the update of the Participant's existing planimetric data, last updated from 2014 orthophotography. County-wide data will be updated using existing orthophotography flown two separate times over the course of one year. The eastern half was flown early 2019 and the western half will be flown early 2020 as shown in **Figure 1**.

2. Project Areas

The project is divided into three areas as shown in **Figure 1**.

- **Area 1** - 324 square miles and includes all the City of Mobile's Metro Area, the Big Creek Watershed, the City of Chickasaw, and portions of the City of Prichard, Saraland, and Satsuma. Except for the Big Creek Watershed, this area is highly urbanized with some areas being very dense in population.
- **Area 2** - 148 square miles total with the lower portion covering the urbanized areas to the north of the City of Mobile such as Prichard, Chickasaw, Saraland, and Satsuma. The upper portion is rural.
- **Area 3** - 923 square miles covering the rural portions of the county.

3. Existing Orthophotography

Orthophotography will be provided to the vendor in .TIF format along with metadata in XML format. The 2019 data will be provided at the beginning of the contract, while the 2020 data will be made available in the later part of 2020.

4. Planimetric Update

The planimetric features will be updated as detailed in **Attachment B – Specified Features**. A more comprehensive planimetric data dictionary will be developed between the selected vendor and the Participants. All feature updates or additions will be flagged in the attribute table.

Photogrammetric updates will include the following:

- Compiling all new features, such as structures, driveways and roads in areas of new residential or commercial development, etc.
- Revising the planimetric data where features such as sidewalks, road edges, or structures have been revised or removed.
- Correcting obvious map errors in all layers.

5. Continuous Datasets

The existing planimetric and topographic datasets are stored in ESRI's Geodatabase data model as continuous layers and do not incorporate existing tile boundaries in their topology. All vector data delivered to the Participants will adhere to this standard.

6. Topology Requirements

The vector data will conform to standard GIS topology "rules":

- **Edge Matching** - All digitized features must be both visual and coordinate edge matched with features from existing data, in adjacent tiles, sheet edges, and at model breaks or other artificial boundaries within a tile. No edge match tolerance will be allowed. Attributes for adjoining features must also be identical.

- **Common Boundaries** - All vector features that share a common boundary, regardless of digital map layer, must have the exact same digital representation of that feature in all common layers.
- **Point Duplication** - No duplication of points will occur within a data string.
- **Connectivity** - Where vector elements visually meet, they must also digitally meet. All confluences of line, area, and polygon data must be exact mathematically; that is, no “overshoots,” “undershoots,” or “offsets” or “pseudo nodes” are permitted. Lines that connect polygons must intersect those polygons precisely; that is, every end point must be an intersection point of the respective polygon.
- **Line Quality** - A high quality cartographic appearance will be achieved. Transitions from straight line to curvilinear line segments will be smooth, and without angular inflections at the point of intersection. The digital representation must not contain extraneous data at a non-visible level. There will be no jags or hooks or zero length segments. Curvilinear graphic features should be smooth with a minimum number of points. When appropriate, line smoothing programs should be used to minimize the angular inflection in curvilinear lines. Any lines that are straight, or should be straight, should be digitized using only two points that represent the beginning and ending points of the line.
- **Segmentation** - The digital representation of linear elements must reflect the visual network structure of the data type. An element should not be broken or segmented unless that segmentation reflects a visual or attribute code characteristic, or unless the break is forced by database limitations.
- **Area and Polygon Closure** - For area features being digitized, the last coordinate pair must be exactly (mathematically) equal to the first coordinate pair.
- **Point Criteria** - All point features will be digitized as a single x,y coordinate pair at the visual center of that feature.

7. Data Format

The final vector data will be loaded into an ESRI File Geodatabase conforming to the existing database structure. Metadata will be provided in ESRI’s ArcCatalog 10.7 compatible XML format compliant with Federal Geographic Data Committee’s standards.

Automated routines will be performed in the validation process that occur prior to and during data conversion to ESRI Shapefile format. These include QC routines that check the migration specific items, ensure that all data did in fact migrate, discrepancy routines that ensure the migrated data conforms to the database design, and other QC routines that check topology, connectivity, precision, spatial continuity, attribute definitions, attribute ranges, and annotation criteria.

8. Data Delivery

All data will be uploaded to a Participant’s online file sharing account. Uploads to the file share site will be considered a final delivery upon review and acceptance by the Participants. All submitted edits not accepted will be documented with pre-defined QA/QC data calls along with the reviewer’s comments for the contractors review and correction. Revisions will be resubmitted for a repeat of the review process.

Mobile County Planimetric Updates Attachment B – Specified Features

Layer / Feature Type	Type	Elevation Attribute	Features to Collect by Project Area			Flight Zone East 2019 - Feature Count by Project Area +/-			Flight Zone West 2020 - Feature Count by Project Area +/-			
			1	2	3	1	2	3	1	2	3	
BRIDGE												
3D POLYLINE	BRIDGE	YES	Y	Y	Y	701	134	159	93	46	172	
	HIDDEN_BRIDGE	YES	Y	Y	Y	15	2	1	0	1	1	
						716	136	160	93	47	173	
						1,012			313			1,325
BUILDING												
3D POLYGON	BLEACHER	-	Y	Y	Y	372	45	45	71	11	59	
	BUILDING	YES	Y	Y	Y	129,409	18,440	30,467	30,572	10,084	32,252	
	BUILDING UNDER CONST	YES	Y	-	-	90			24			
	DOCK	YES	Y	-	-	309			69			
	FENCED ENCLOSURE	YES	Y	-	-	55			11			
	GREENHOUSE	YES	Y	Y	-	135	4		163	178		
	LOADING DOCK	YES	Y	-	-	163			19			
	OUTBUILDING	YES	Y	-	-	14,342			6,690			
	OVERHEAD STRUCTURE	YES	Y	Y	Y	3,304	724	1,671	1,873	1,630	3,256	
	PIER	YES	Y	Y	-	1,151			177	99		
	RUINS	YES	Y	-	-	256			199	3		
	SILO	YES	Y	Y	-	11	2		12	11		
	TANK	YES	Y	Y	-	1,563	87		95	26		
	TRAILER	YES	Y	Y	-	1,898	78		1,719	962		
WATER TOWER	YES	Y	Y	-	15	2		9	0			
						153,073	19,382	32,183	41,703	13,004	35,567	
						204,638			90,274			294,912
PARKING												
3D POLYGON	PAVED	-	Y	Y	-	6,361	622		646	60		
						6,983			706			7,689
PAVEEDGE												
3D POLYLINE	CURB	-	Y	-	-	22,261			3,684			
	HIDDEN_PAVED_ROAD	-	Y	-	-	97			8			
	PAVED_ALLEY	-	Y	Y	-	46	20		0	0		
	PAVED_ROAD	-	Y	Y	Y	23,080	4,446	4,870	12,769	6,070	6,526	
						45,484	4,466	4,870	16,461	6,070	6,526	
						54,820			29,057			83,877

Mobile County Planimetric Updates Attachment B – Specified Features

Layer / Feature Type	Type	Elevation Attribute	Features to Collect by Project Area			Flight Zone East 2019 - Feature Count by Project Area +/-			Flight Zone West 2020 - Feature Count by Project Area +/-		
			1	2	3	1	2	3	1	2	3
RAILROAD											
3D POLYLINE	RAILROAD	-	Y	Y	Y	2,204	61	287	29	29	34
	SINGLE_TRACK	-	Y	Y	Y	267	0	1	0	0	0
						2,471	61	288	29	29	34
								2,820			92
											2,912
SIDEWALK											
3D POLYLINE	SIDEWALK	-	Y	-	-	84,425			12,603		
											97,028
SWAMP											
3D POLYGON	SWAMP	-	Y	Y	Y	820	145	1,593	191	188	1,121
								2,558			1,500
											4,058
WATERBODY											
3D POLYGON	CHANNEL	-	Y	Y	-	0	0		0	0	
	HOLDING_POND	-	Y	Y	-	182	24		82	22	
	LAKE	-	Y	Y	Y	6	12	35	13	6	70
	POND	-	Y	Y	Y	954	218	1,575	712	653	2,206
	RESERVOIR	-	Y	Y	Y	2		14	0	0	2
	RIVER	-	Y	Y	Y	85	18	102	7	8	111
						1,229	272	1,726	814	689	2,389
								3,227			3,892
											7,119

FLIGHT ZONES

Year 2020 - West
671 +/- square miles.

Year 2019 - East
668 +/- square miles.

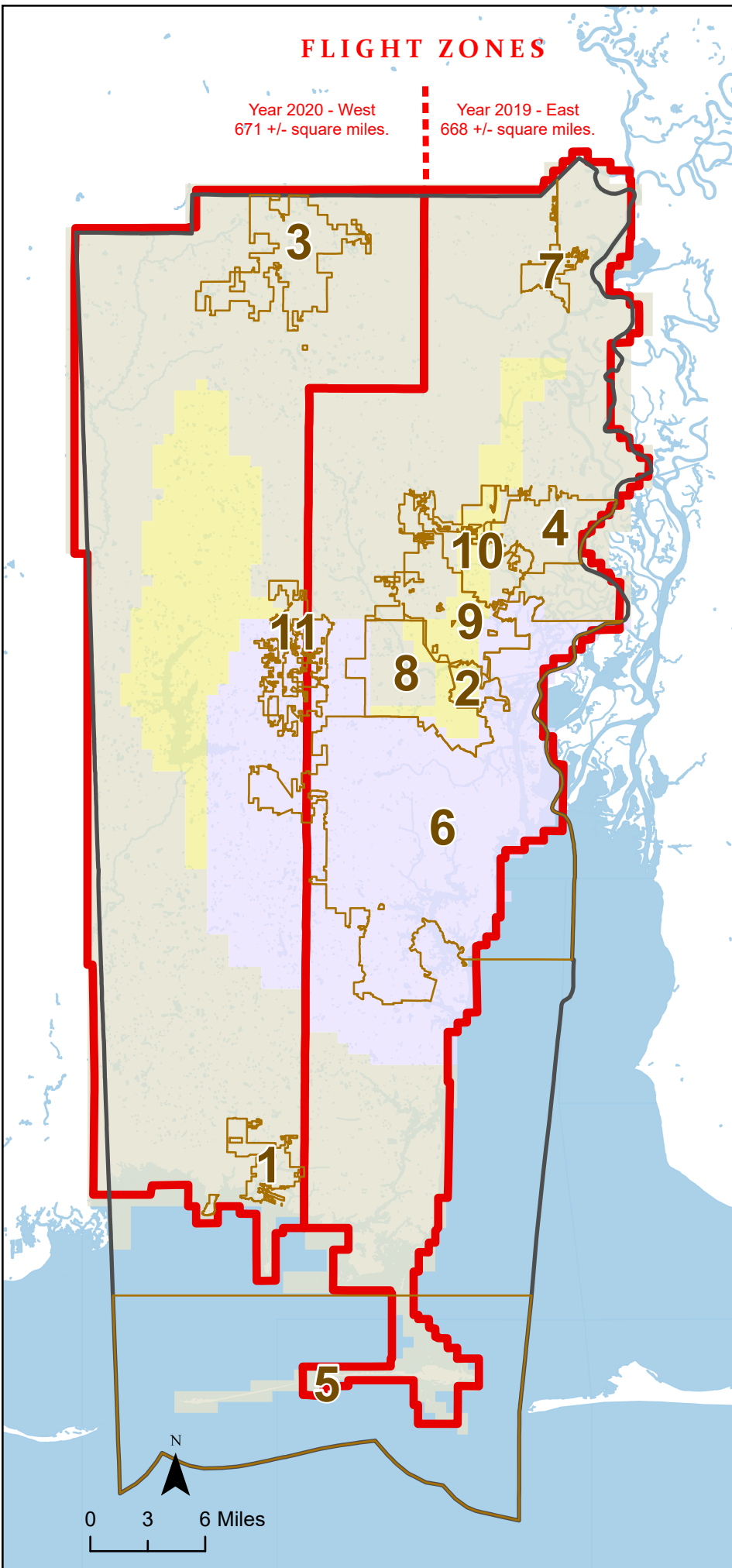


Figure 1

Project Areas

- 1 - 324 sq. miles
- 2 - 148 sq. miles
- 3 - 923 sq. miles

 City Limits

Id	Name	Sq. Miles
1	Bayou La Batre	8.3
2	Chickasaw	4.6
3	Citronelle	25.8
4	Creola	16.1
5	Dauphin Island	22
6	Mobile	179
7	Mount Vernon	5.2
8	Prichard	26.3
9	Saraland	31.7
10	Satsuma	7.8
11	Semmes	12.4



OFFICE OF SUPPLIER DIVERSITY
CITY OF MOBILE
Subcontracting and Major Supplier Plan

Contact Office of Supplier Diversity for
questions on completing this form.
Via email: Archnique.kidd@cityofmobile.org
251.208.7967
205 Government Street, 4th Floor

Bidders and Proposers – Please complete and submit these forms as required by your City of Mobile Bid or Proposal Specification.

This document provides information to the City of Mobile about the subcontractors and major suppliers you intend to use to complete this contract. Failure to submit this form, when so required by the bid or proposal specification, will render your bid non-responsible. Not all specifications require this form to be completed, or may require its completion under varying circumstances. Refer to the specification for direction.

The City of Mobile will use this form to:

- Understand your intended use of subcontractors and major suppliers as part of your bid/proposal submission.
- Evaluate your capability to complete the performance of this contract.
- Determine your use of Disadvantaged Business Enterprises (DBEs) as subcontractors and suppliers.
- For certain contracts, assess whether you exercised “good faith efforts” to use DBE subcontractors and suppliers for at least 15% of the value of your bid/proposal amount. (See City of Mobile City Code Sec. 14-2.)

Include this form with your bid/proposal submission. Should your bid be considered the lowest responsible bid, you will have the opportunity to update this form at contract signature. You also will be required to re-verify your information at contract conclusion.

The bid specification may require you to attempt in “good faith” to use DBE subcontractors and suppliers for at least 15% of the value of your bid in the performance of this contract. If you don’t have that level of DBE subcontractor / supplier usage (as documented on **Form 1**), you are required to complete the “good faith effort” documentation on **Form 2**. When so required, failure to adequately address the good faith effort factors on Form 2 will render your bid or proposal as non-responsive. The determination whether the bid or proposal adequately demonstrates and documents a DBE subcontractor/supplier plan, or good faith efforts to complete such a plan, will be at the sole discretion of the City of Mobile. You are encouraged to work with the City of Mobile Supplier Diversity Manager when preparing this form.

About “**DBEs**”: The City of Mobile considers businesses owned by minorities, women, or disabled veterans to be DBEs. Please consult with the City Supplier Diversity Manager for clarification or lists of certified DBEs.

About “**Good Faith**” **Effort**: The City of Mobile expects contractors holding large contracts to recruit and engage DBEs to be a part of their team. If the specification sets, and you cannot meet, the 15% target, you must show us how you attempted to recruit and engage DBEs to meet this target. This helps the City identify DBE market weaknesses for development, and ensures all bidders are equally considering this obligation in preparing a bid. The “good faith effort” factors on **Form 2** are not intended to be a mandatory, exhaustive, or exclusive. They are a tool to help you, and to help the City consistently and fairly consider your effort.



OFFICE OF SUPPLIER DIVERSITY
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Contact Office of Supplier Diversity for questions on completing this form.
 Via email: Archnique.kidd@cityofmobile.org
 251.208.7967
 205 Government Street, 4th Floor

FORM 1: Background and Plan

Section I. Information about your company

Company	
Address	
Telephone	
E-Mail	

RFP/RFQ Solicitation Number	
Project Description	
Is your company a DBE company?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Work force demographics	Male _____ Female _____ Minority _____ Non-minority _____ Vets _____
	Total #of Employees _____

Subcontractor/Major Supplier Plan submitted by:

Printed Name: _____

Signature: _____ Date: _____

Title: _____

The following employee will be designated as the **DBE Liaison** for all communication regarding DBE participation including documentation for DBE participation and maintenance of records of Good Faith Efforts for this contract award:

Name: _____ Title: _____

E-mail: _____ Phone: _____



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Form 2: Good Faith Effort Documentation

Name of Bidder: _____

Contact Person: _____ Phone _____ Email _____

Please complete this form if you are unable to identify DBE subcontractors or suppliers to reach 15% of the value of your bid.

YES <input type="checkbox"/>	NO <input type="checkbox"/>	Did you do these suggested areas for DBE recruitment and engagement
		PRE-BID MEETING(S): The bidder attended all pre-bid meetings scheduled by the City to inform DBEs of contracting and subcontracting opportunities.
		CMDBE/ALDOT DBE LIST(S): The bidder utilized the Office of Supplier Diversity's list or lists of certified ALDOT DBE 's
		SMALL CONTRACT(S): The bidder selected specific portions of the work to be performed by DBEs in order to increase the likelihood of meeting the DBE goals (including breaking down contracts into smaller units to facilitate DBE participation). Consider support services, including insurance, accounting, temporary labor, and transportation, landscaping, and janitorial as potential areas for DBE use.
		FOLLOW-UP: The bidder followed-up initial indications of interest by DBEs by contacting those DBEs to determine with certainty if they remained interested in bidding.
		ADVERTISEMENT: The bidder advertised in general circulation and/or trade association publications concerning subcontracting opportunities, and allowed DBEs reasonable time to respond.
		INTERNET ADVERTISING: The bidder advertised DBE and/or subcontracting opportunities on the <i>City of Mobile</i> Facebook page or other internet portals that are accessible to DBEs and/or potential subcontractors.
		GOOD FAITH NEGOTIATIONS: The bidder negotiated in good faith with interested DBEs and did not reject DBEs as unqualified without sound business reasons based on a thorough investigation of their capabilities.



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 Subcontracting and Major Supplier Plan

		INFORMATION: The bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the subcontract.
		WRITTEN NOTICE(S): The bidder/proposer took the necessary steps to provide written notice in a manner reasonably calculated to inform DBEs of subcontracting opportunities and allowed sufficient time for them to participate effectively.
		COMMUNITY RESOURCES: The bidder/proposer used the services of available community organizations, small and/or disadvantaged business assistance offices and other organizations that provided assistance in the recruitment and placement of DBE firms.
		CONTRACT RECORDS: The bidder/proposer has maintained the following records for each DBE that has bid on the subcontracting opportunity: <ol style="list-style-type: none"> 1. Name, address, and telephone number; 2. A description of information provided by the bidder/proposer or subcontractor; and 3. A statement of whether an agreement was reached, and if not, why not, including any reasons for concluding that the DBE was unqualified to perform the job.

Please indicate if any of the following applied:

_____ There are not ways to break out 15% of the value of this contract for subcontractors / suppliers.

_____ Could not find sufficient DBEs to provide subcontracting or supplier services.

_____ DBEs were available but did not have sufficient qualifications or experience to meet the needs of this contract.

Please indicate additional efforts you have taken to recruit and engage DBEs. _____

Suggestions or comments to improve this program. _____
