

Request for Proposals 2007P

High-Resolution Orthophotography & 3D Modeling Services



Request for Proposals to provide the cost of all labor, support, and training to complete the Service in accordance with the attached Statement of Service.

REQUEST FOR PROPOSAL

High-Resolution Orthophotography & 3D Modeling Services

Introduction and Overview

The City of Alexandria, Louisiana (the **City**), located in Rapides Parish, Louisiana, and encompassing approximately 29 square miles, requests competitive sealed proposals from qualified firms to acquire, process, quality-control, and deliver exceptionally high-resolution digital orthophotography for the entire City and photorealistic three-dimensional geospatial models for the downtown district and designated City-owned buildings.

The City intends to select one prime contractor capable of delivering an integrated, quality-controlled geospatial program rather than separate, disconnected products. The successful proposer will be responsible for acquisition planning, regulatory and airspace coordination, survey control, image collection, photogrammetric processing, orthorectification, 3D reconstruction, quality assurance, open-format delivery, and correction of nonconforming work.

The City seeks a best-value solution. The ability to reliably produce citywide orthophotography at a ground sample distance uncommon in conventional municipal programs, while also producing usable open-format 3D models, is central to the procurement.

This RFP specifies performance and acceptance outcomes. It does not prescribe a manufacturer, aircraft type, sensor brand, software brand, or proprietary production method. A proposer may use crewed aircraft, uncrewed aircraft systems, terrestrial imaging, or a coordinated combination, provided all requirements are met lawfully, safely, consistently, and within schedule.

This Request for Proposals (RFP) is issued in accordance with the Louisiana Procurement Code, Louisiana Revised Statutes (La. R.S.) 39:1595, governing competitive sealed proposals.

The project will establish a current, authoritative visual base map and a reusable 3D geospatial record to support City operations including GIS, planning, code enforcement, public works, utilities, engineering, facilities management, economic development, emergency management, public safety, communications, and asset documentation.

The City expects the following outcomes:

- Seamless natural-color orthophotography covering the full City at **0.6 inch (1.524 centimeters) GSD or better**.
- A continuous photorealistic textured 3D mesh for the City-defined downtown district.
- Individual georeferenced photorealistic 3D models for designated City-owned buildings and facilities.
- Documented positional accuracy tested against independent checkpoints.
- Open, exportable deliverables usable without a required long-term proprietary subscription.
- A documented and repeatable production framework that can support future refresh cycles.

Definitions:

Term	Definition
AOI	Area of Interest shown in a City-provided digital polygon or asset list.
COG	Cloud Optimized GeoTIFF conforming to the applicable Open Geospatial Consortium standard.
GSD	Ground sample distance represented by one pixel at ground level. GSD is not equivalent to positional accuracy.
Independent checkpoint	A surveyed point withheld from aerial triangulation, bundle adjustment, rectification, model fitting, and all production control.
Emergency AOI	The affected area within the City and any City-directed buffer, access corridor, evacuation route, utility corridor, or critical-facility area designated in an Emergency Activation Notice. At the City's direction, the Emergency AOI may include the entire City AOI.
Qualifying Emergency Event	An event meeting any objective trigger in Section 10.5.2 and activated by the City under Section 10.5.3. A final post-event agency rating is not required when reliable preliminary information and observed conditions establish the applicable trigger.
Restoration Flight	The second no-charge acquisition for a Qualifying Emergency Event, performed after the City determines that emergency stabilization or substantial repair of the affected assets is complete enough to document restored conditions.
Orthophoto	A georeferenced image corrected for sensor perspective, platform attitude, and terrain displacement so it has the geometric properties of an orthographic projection.
Public building	A City-owned or City-controlled building or facility identified in Attachment B.
3D model	A georeferenced photogrammetric textured mesh and associated metadata. Unless expressly added by amendment, it is not a BIM, as-built survey, structural model, or engineering design document.

1.0 PROPOSAL INSTRUCTIONS

1.1) **Questions Prior to Opening:**

All questions must be in writing and directed solely to the issuing office. Questions may be emailed to the AUS Director or his/her designee. Questions that may be answered by directing the bidder to a specific section of the RFP may be answered by phone or email. Other questions may be more complex and require a written amendment to the RFP. A summary of all pertinent questions and answers will be sent to participating vendors.

1.2) **Preparation Costs:**

The City will not pay any cost(s) associated with the preparation, submittal, presentation, or evaluation of any proposal.

1.3) **Preparation of Proposals:**

Each offer must be legible and signed. Technical and price proposals shall be clearly separated. The technical proposal shall not exceed 50 pages, excluding covers, resumes, forms, and sample-report appendices. Proposers shall organize responses in the following order:

- Section 1: Signed proposal cover and addendum acknowledgement.
- Section 2: Executive summary and unconditional statement of compliance with Section 6.
- Section 3: Point-by-point compliance matrix for Sections 7 through 14, identifying: comply, exceed, exception, or not offered.
- Section 4: Technical approach, including acquisition, emergency and post-repair mobilization, control, orthophoto, 3D, QA/QC, security, and delivery workflows.
- Section 5: Citywide production capacity and airspace plan, including primary and backup aircraft, sensors, crews, and processing resources.
- Section 6: Detailed schedule and critical path.
- Section 7: Project organization, key personnel, resumes, roles, availability, and subcontractors.
- Section 8: Comparable project experience and references.
- Section 9: Samples and demonstration materials.
- Section 10: Data rights, hosting, storage, cybersecurity, and records-retention response.
- Section 11: Exceptions and proposed alternatives.
- Section 12: Separate price proposal using Attachment D.
- Section 13: City forms, affidavits, insurance evidence, and AFEAT documentation.

1.4) **Addenda:**

All vendors shall acknowledge receipt of any addenda to a Request. Failure to acknowledge receipt of any addenda may render the bid non-responsive. Changes to a Request shall be made solely by a written addendum issued by the City. Suppliers are asked to promptly notify the City of any ambiguity, inconsistency, or error that may be discovered after examining the Bid Documents.

1.0 PROPOSAL INSTRUCTIONS (Continued)

1.5) **Marking and Mailing Offers:**

Proposals should be emailed, faxed, hand-delivered, or mailed to:

Marcus Connella, Director of Utilities
City of Alexandria
P.O. Box 71
Alexandria, LA 71309
marcus.connella@cityofalex.com
Office: 318-449-5008
Fax: 318-449-5080

1.6) **Closing Date for Offers:**

All Proposals shall be received promptly at 12:00 PM Central Standard Time on **November 20, 2026** at the following location via email, fax, hand-delivery, or mail:

Marcus Connella, Director of Utilities
City of Alexandria
P.O. Box 71
Alexandria, LA 71309
marcus.connella@cityofalex.com
Office: 318-449-5008
Fax: 318-449-5080

1.7) **Inquiries and Questions:**

Any explanation desired by a Proposer regarding the meaning or interpretation of this RFP and any attachments must be emailed to:

Curtis S Fogleman
Assistant Director of Utilities
City of Alexandria
P.O. Box 71
Alexandria, LA 71309
curtis.fogleman@cityofalex.com
Office: 318-441-6037
Fax: 318-449-5080

All communications must include in the subject line “**City of Alexandria-RFP #2007P Proposal for High-Resolution Orthophotography & 3D Modeling**”. All inquiries and questions must be submitted by 5:00 PM Central Standard Time on **November 5, 2026**.

1.8) **Modification of Offers:**

A vendor may modify a submitted proposal by letter at any time before the deadline for the receipt of bids. Modifications must be received via email, fax, hand-delivery, or mail with the

1.0 PROPOSAL INSTRUCTIONS (Continued)

Company's Name, Proposal Name, Proposal Number, and the Closing Date and Time clearly marked.

1.9) **Withdrawal of Offers:**

A proposal may be withdrawn upon written request via email, fax, hand-delivery, or mail from the vendor to the Director of Utilities before the Closing Date.

1.10) **Disclosure:**

At the time of closing, all proposals and other material(s) submitted become the property of the City and may be returned only at the City's option. All proposal information, including detailed price and cost information, will be held in confidence during the evaluation process and prior to the time the Notice of Intent to Award is issued.

1.11) **Insurance:**

Respondent shall furnish, attached to the bid document, a current copy of his Certificate of Insurance indicating limits of General Liability, Automobile Liability, Aircraft Liability, Cyber Liability, and Workers' Compensation in force at the time of the bidding. Evidence of reliable insurance to fully indemnify against long-term liabilities shall be part of the evaluation criteria for award of this bid. Certificate of Insurance shall have a General Liability Aggregate of Four Million (\$4,000,000) Dollars and a per person/per occurrence of Two Million (\$2,000,000) Dollars. Automobile Liability will have a Combined Single Limit of Two Million (2,000,000) Dollars. The Certificate shall also name the City as an "additional insured" and include a waiver of subrogation in favor of the City of Alexandria.

The Certificate of Insurance under Workers' Compensation shall state that "This is a standard Workers' Compensation Policy", with statutory limits. Cancellation of any Certificate of Insurance should require sixty (60) days' notice to the City of Alexandria, but under no circumstances less than thirty (30) days' notice. Also, the following wording must be removed before acceptance of the Certificate: "Endeavor to" or "But failure to mail such notice shall impose no obligation of liability of any kind upon the company, its agents or

representatives." Certificate holder shall be the City of Alexandria, P.O. Box 71, Alexandria, LA 71309-0071, Attention: Purchasing Manager.

The successful Proposer shall procure and maintain Cyber Liability Insurance throughout the term of the Contract, including any renewals, with limits of not less than \$2,000,000 per claim and \$2,000,000 aggregate, or such higher limits as may be required by the City based on the scope of services. Coverage shall be provided by an insurer authorized to conduct business in the State of Louisiana with an A.M. Best rating of A-VII or better.

Coverage shall include, at a minimum, liability arising from data breaches, unauthorized access, privacy violations, network security failures, ransomware and cyber extortion, business

1.0 PROPOSAL INSTRUCTIONS (Continued)

interruption, data recovery, regulatory defense, and breach response costs, including forensic investigation, notification, and credit monitoring where applicable.

For cloud-hosted solutions, the Proposer shall maintain industry-standard cybersecurity controls, including encryption of data in transit and at rest, multi-factor authentication (MFA), role-based access controls, regular security patching, annual independent security assessments, and incident response procedures. Upon completion of the Independent Security Assessment, the Proposer shall notify the City and provide a written summary of the assessment findings, including any identified vulnerabilities, recommended remediation measures, if applicable, and the overall risk rating. The Proposer shall notify the City of any actual or suspected security incident affecting City data within twenty-four (24) hours of discovery.

All City data shall remain the sole property of the City. Upon contract termination, the Proposer shall return all City data in a mutually agreed, industry-standard electronic format and securely destroy any remaining copies upon the City's request.

The successful Proposer shall procure and maintain Aircraft Liability Insurance throughout the term of the Contract, including any renewals or extensions, with a Combined Single Limit of not less than Ten Million Dollars (\$10,000,000) per occurrence for bodily injury, including death, and property damage arising from aircraft operations performed in connection with the Contract.

The Proposer shall ensure that all aircraft operations performed under the Contract, including operations performed by subcontractors, are covered by insurance meeting these requirements. The City of Alexandria shall be included as an additional insured with respect to aviation operations performed in connection with the Contract, through applicable blanket policy provisions or a specific endorsement. Before contract execution and upon each policy renewal, the Proposer shall provide a Certificate of Insurance and the applicable policy provisions or endorsements evidencing these requirements.

The successful Proposer shall provide a Certificate of Insurance for all mentioned insurances evidencing the required coverage before contract execution and upon each policy renewal. Failure to maintain the required insurance shall constitute a material breach of the Contract.

1.12) **Reserved Rights:**

The City reserves the right to: (a) reject any or all proposals; (b) waive informalities; (c) award separate contracts per component; (d) negotiate contract terms; (e) cancel this RFP without liability; and (f) award to other than the lowest-priced offeror when in the best interest of the City.

2.0 General Provisions – Please Read Carefully

- 2.1) Pursuant to LA R.S 38:2212.1. C.(1)(2), any manufacturer's preference in this proposal is descriptive, but non-restrictive, and is used only to indicate minimum requirements for type, grade, and quality unless otherwise specified.
- 2.2) Pursuant to LA R.S. 38:2212 B.(1), the provisions and requirements of this bid shall not be considered as informalities and shall not be waived by the City of Alexandria. Therefore, conditions and specifications on this bid form shall be strictly enforced and any and all alterations, deviations, and non-compliance with said conditions and specifications, either on the bid form or by separate attachment, shall be grounds for immediate disqualification.
- 2.3) Preference shall be given to bidders quoting F.O.B. Destination (the City of Alexandria using department), FREIGHT PREPAID, unless otherwise requested.
- 2.4) Each bidder shall submit his proposal on the proposal form furnished by the City of Alexandria Purchasing Department. The complete bid package must be returned as issued by the City with all pages intact and all specification response columns filled in. Incomplete columns or missing pages, to include addendum pages, shall result in the vendor's entire bid package being rejected.
- 2.5) Literature, brochures, and other related paperwork attached to the bid should be identified with the name of the bidder and bid item number.
- 2.6) In case of a mathematical discrepancy between unit price and extensions, the unit price shall prevail.
- 2.7) Pursuant to LA R.S. 38:2212 F., the bid specifications may contemplate a fixed escalation or de-escalation in accordance with the United States Bureau of Labor Statistics' Consumer Price Index or the Producer Price Index. Bids based on specifications which are subject to a recognized escalation index shall be legal and valid for any item of a public work, at the discretion of the City.
- 2.8) Pursuant to LA R.S. 38:2212.1. F., any public procurement unit may participate in a cooperative purchasing agreement with the City of Alexandria to acquire quantities of the above-listed items under a contract with the City of Alexandria for items awarded by public bid, pursuant to the cooperative purchasing provisions of Part VII of Chapter 17 of Subtitle III of Title 39 of the Louisiana Revised Statutes of 1950, R.S. 39:1701 et seq.
- 2.9) The City of Alexandria reserves the right to award by item or by total bid, unless otherwise specified in the bid specifications. (Price(s) should be itemized.)

- 2.10) All erasures or corrections on the bid form must be initialed, and the City of Alexandria may rely on the apparent authority represented by the initials.
- 2.11) The City of Alexandria reserves the right to reject for cause any and all bids or parts of bids, or accept bids most beneficial to the City.
- 2.12) Any bid submitted which contains additions, conditional or alternate bids, or irregularities which may make the proposal incomplete, indefinite, or ambiguous as to its meaning, thus requiring clarification after the specified date and time of bid opening shall be rejected.
- 2.13) Responses will not be publicly opened.
- 2.14) Cash discounts may be accepted, but SHALL NOT be considered in making award.
- 2.15) Regarding a bid for purchase of materials, supplies or services, not to include construction of any public works, a written notice of acceptance mailed or otherwise furnished to the successful bidder shall result in a binding contract without further action by either party.
- 2.16) When any bid is accepted for the construction or doing of any public works, a written contract shall be executed by and between the City of Alexandria and the Contractor. No contract shall be binding upon the City until it has been executed by the City and delivered to the successful bidder. Should the bidder to whom the contract is awarded fail to execute the contract, the award shall then be made to the next lowest responsible bidder, or re-advertised for public bid, said decision to be in the sole judgment of the City of Alexandria. This action may result in the loss of bidding privileges for a period of one (1) year.
- 2.17) The City of Alexandria shall schedule for payment the invoices for articles or services purchased under this bid within thirty (30) days after due and proper delivery accompanied by invoice.
- 2.18) The City of Alexandria is exempt from all sales taxes. A sales tax exempt form shall be furnished by the City of Alexandria Purchasing Department, if requested.
- 2.19) Bidder(s) awarded item(s) by the City of Alexandria shall be responsible for supplying all products at the awarded price(s). Failure may result in the City's cancellation of the remaining items awarded.
- 2.20) Regarding Service Contracts and Procurement Contracts, the terms of the contract shall be binding upon any and all parties involved until goods and supplies are delivered, services have been rendered, and/or work has been completed and accepted by the Mayor on behalf of the City of Alexandria, and all payments required to be made to the Contractor have been made. However, a contract may be terminated under any and all of the following conditions:
 - a) By mutual agreement and consent of either party upon thirty (30) days' written notice to the other party;

- b) By the Mayor, on behalf of the City of Alexandria, as a consequence of the failure of the Contractor to comply with the terms and conditions of the contract or the progress or quality of work to be performed in a satisfactory manner, proper allowance being made for circumstances beyond the control of the Contractor; or
 - c) By satisfactory completion of all services and obligations described in the contract.
 - d) If the contract is terminated for any of the terms and conditions authorized in subparagraph (b) above, Contractor shall be formally notified in writing by the City of Alexandria Purchasing Department by means of certified mail informing him of cancellation of the contract, giving specific reasons for said cancellation. Contractor shall have the right to appeal to the City Council within ten (10) days from the date that said notification is placed in the U.S. Mail. Contractor's appeal shall be accomplished by means of a letter addressed to the City Council and delivered to the City Clerk, stating that an appeal to the decision of cancellation is desired. The City Council shall thereafter hold a hearing on the appeal, giving all parties the opportunity to present any and all evidence concerning the decision of cancellation. After hearing the appeal, the City Council may, by a majority vote, sustain, modify, or reverse the findings for said decision and shall provide, if requested by Contractor, a written determination of its findings.
- 2.21) Contractors submitting bids for Public Works construction projects in excess of \$1.00 must show their Contractor's License Number on the front of the bid envelope, except for certain projects for which a Contractor's License Number is not required by the State Contractor's Licensing Board. Failure to comply with this directive shall result in automatic bid rejection; furthermore, any Contractor who submits a bid for a type of construction for which he is not properly licensed shall be acting in violation of LA R.S. 37:2163, and shall be subject to all provisions for violation and penalties thereof. Contractors who are owned by, and are submitting a bid as a subsidiary of a parent company, whose name is listed in the State of Louisiana's Roster of Licensed Contractors, may do so by including a letter of proof of ownership from the parent company with the submitted bid package. The letter must be signed as per LA R.S. 38:2212 B.(5)(a)(b)(c) (see Item #22 below).
- 2.22) All bids submitted via USPS (registered or certified), overnight courier or hand delivered, shall be signed by hand and in ink by an authorized company representative per LA R.S. 38:2212 B.(5)(a)(b)(c), which states:
- (c)(i) Evidence of agency, corporate, or partnership authority shall be required for submission of a bid to the Division of Administration or the State of Louisiana. The authority of the signature of the person submitting the bid shall be deemed sufficient and acceptable if any of the following conditions are met:
 - (aa) The signature on the bid is that of any corporate officer listed on the most current annual report on file with the Secretary of State, or the signature on

the bid is that of any member of a partnership or partnership in commendam listed in the most current partnership records on file with the Secretary of State.

(bb) The signature on the bid is that of an authorized representative of the corporation, partnership, or other legal entity and the bid is accompanied by a corporate resolution, certification as to the corporate principal, or other documents indicating authority which are acceptable to the public entity.

(cc) The corporation, partnership, or other legal entity has filed in the appropriate records of the Secretary of State in which the public entity is located, an affidavit, resolution, or other acknowledged or authentic document indicating the names of all parties authorized to submit bids for public contracts. Such document on file with the Secretary of State shall remain in effect and shall be binding upon the principal until specifically rescinded and canceled from the records of the office.

- 2.23) In-State preferences shall not apply to procurements involving federal funds.
- 2.24) Pursuant to LA R.S. 38:2212 O.(2)(a)(b), any modifications of plans and specifications will be made through an addendum. No addendum shall be issued within seventy-two (72) hours of the bid opening, excluding weekends and legal holidays, without the extension of the bid opening date. An extension of at least seven (7) but no more than thirty (30) working days is required, but re-advertising is not required. The addendum shall be transmitted by any one of the following methods: (1) facsimile transmission; (2) e-mail; (3) by hand; or (4) posted on the City of Alexandria's website (www.cityofalexandria.com) and posted on Central Bidding's website (www.centrauctionhouse.com) if applicable.
- 2.25) All Federal Transit Administration (FTA) funded procurements, including operating assistance funding contracts, are to follow the Master Agreement, to include all applicable federal clauses.
- a) Any bidder that is found listed on the Federal Government's *System for Award Management* (SAM) website, at www.sam.gov/portal/sam, under the advanced search feature for *Excluded Parties List System* (EPLS), shall automatically be rejected for the award of this bid, by Category and/or in its entirety. This applies to any portion of the bid that is a procurement funded by FTA.
- 2.26) Under the City's *AFEAT (Alexandria Fairness, Equality, Accessibility, and Teamwork Program)*, participation by minority and/or disadvantaged business enterprise firms is encouraged. Inquiries about the *AFEAT* Program should be directed to the Division of Finance. As a part of its RFP response, each Bidder ***shall*** submit documentation of its bona fide effort to secure subcontractors that meet the City's *AFEAT* goals. Each bidder ***shall*** also submit proof of engagement of any subcontractor selected because of its solicitations. The bidder's bona fide efforts and engagement(s) are a consideration in bid review and rating.

Alexandria Fairness, Equality, Accessibility and Teamwork Program (AFEAT)

Dear Vendor:

Under the City's *AFEAT (Alexandria Fairness, Equality, Accessibility, and Teamwork Program)*, participation by minority and/or disadvantaged business enterprise firms is encouraged. The AFEAT Program should be inquired about through the Division of Finance. The goals for qualifying disadvantaged, minority and female owned business in the use of professional service agreements with prime contractors will help effectuate the goals of increasing: the competitive viability of small business, minority, and women business enterprise by providing contract, technical, educational, and management assistance; business ownership by small business persons, minority persons, and women (including professional service opportunities); and the procurement by the City of professional services, articles, equipment, supplies, and materials from business concerns owned by small business concerns, minority persons, and women.

Prime contractors offering subcontracting should take specific action to ensure that a bona fide effort is made to achieve maximum results towards meeting the established goals. Primes shall document efforts and shall implement steps at least as extensive as the following in a good faith effort to reach or exceed the established goals:

- A. *Establish and maintain a current list of minority and female owned businesses in Alexandria, in Rapides Parish, and in the State of Louisiana.*
- B. *Document and maintain a record of all solicitations of offers for subcontracts from minority or female construction contractor and suppliers in Alexandria, in Rapides Parish, and in the State of Louisiana.*
- C. *Secure listing of minority and women owned businesses from the City of Alexandria Purchasing Department, the Central Louisiana Business Incubator, and the State of Louisiana Department of Minority Affairs.*
- D. *Participate in associations which assist in promoting minority and women owned businesses such as the Central Louisiana Business League, the Central Louisiana Business Incubator, and the Entrepreneurial League System.*
- E. *Designate a responsible official to monitor all activity made in the effort to achieve or exceed the established goals; record contacts made, subcontracts entered into with dollar amounts, and other relevant information.*

Should you have any questions or comments, please do not hesitate to contact our Finance Department at 318-449-5091 or our Purchasing Department at 318-441-6180.

As a part of its RFP response, each Bidder **shall** submit documentation of its bona fide effort to secure subcontractors that meet the City's AFEAT goals. Each bidder **shall** also submit proof of engagement of any subcontractor selected because of its solicitations. The Bidder's bona fide efforts and engagement(s) are a consideration in bid review and rating.

Sincerely,

City of Alexandria

3.0 Project Objectives:

3.1 Citywide Orthophotography

The base AOI is the official corporate boundary of the City of Alexandria plus a minimum 500-foot production buffer. The City will provide the authoritative AOI polygon in a mutually usable GIS format. The digital polygon controls over any estimated acreage, square mileage, narrative, or illustrative map.

The final orthophoto shall completely cover the City boundary. The production buffer shall be sufficient to eliminate edge artifacts and ensure that all final City tiles are fully populated.

3.2 Downtown 3D District

The polygon in Attachment A will define the downtown 3D AOI. The contractor shall acquire sufficient nadir, oblique, and supplemental imagery to produce a continuous textured mesh of visible roofs, facades, streetscape, and terrain within the AOI. Source oblique imagery may be collected for production but is not required as a separate oblique-imagery deliverable.

3.3 City-Owned Buildings

The City will provide an initial asset list in Attachment B. Each listed site will include an address, parcel or site boundary where available, security classification, and known access constraints. The City may add or remove buildings through written change control using the unit prices established in the contract.

4.0 Technical Scope - Orthophotography:

4.1 Image Characteristics

- Natural-color RGB, minimum 8 bits per band.
- Final pixel size no greater than 0.6 inches throughout the accepted City AOI.
- Nadir imagery shall be the primary source for the orthophoto. An orthophoto generated solely by rectifying oblique images is not acceptable.
- Images shall be sharp at native resolution and free of unacceptable motion blur, rolling-shutter distortion, compression artifacts, vignetting, blooming, banding, dead pixels, and focus variation.
- Color, brightness, contrast, and saturation shall be balanced across flight blocks and seamlines while retaining natural feature detail.
- No production resampling may be used to make coarser source imagery appear to satisfy the required GSD.

4.2 Orthorectification and Mosaicking

- Rectification shall use calibrated sensor geometry, adjusted exterior orientation, appropriate control, and a terrain or surface model adequate for the required accuracy.
- Seamlines shall be reviewed manually or by an equivalent validated process. Seamlines should avoid splitting buildings, bridges, elevated structures, and other prominent features where practicable.
- Roads, curbs, building corners, utility features, rail lines, bridges, and other hard features shall align across seams without visually disruptive displacement.
- Wavy linear features, duplicated objects, missing features, stretched pavement markings, false elevation effects, and abrupt radiometric edges are not acceptable.
- The downtown 3D AOI and each authorized public-building site shall receive true-ortho or equivalent occlusion-aware treatment sufficient to minimize building lean and reveal ground features adjacent to structures.

4.3 Required Orthophoto Deliverables

- Uncompressed tiled GeoTIFF orthophotography with embedded georeferencing and internal overviews.
- Cloud Optimized GeoTIFF tiles or mosaics suitable for HTTP range-based access.
- A seamless City mosaic in a format and segmentation agreed at kickoff.
- Tile index in GeoPackage and Esri File Geodatabase, showing tile ID, source acquisition date or date range, GSD, production block, and acceptance status.
- Low-resolution browse mosaic for rapid reference.
- Project, block, and tile-level metadata as specified in Section 13.

5.0 Technical Scope – 3D Modeling:

5.1 Downtown Textured Mesh

The contractor shall produce a continuous georeferenced textured mesh for the entire downtown AOI. It shall depict visible roofs, facades, ground surfaces, streetscape, and major site features with a consistent level of detail and without abrupt quality changes between acquisition blocks.

The downtown model shall be suitable for interactive GIS visualization, planning context, public communication, emergency planning, and comparative documentation. It is not required to provide interior geometry or survey-grade concealed dimensions.

5.2 Individual Public-Building Models

For each authorized building, the contractor shall provide an individually addressable, georeferenced model with the subject building isolated logically from the surrounding mesh. Each model shall include all safely visible exterior sides and roof surfaces, subject to legal flight, access, security, vegetation, and other constraints documented in the exceptions register.

Models shall not include intentionally captured views through windows or into nonpublic interior spaces. The contractor shall coordinate site access and security restrictions with the City project manager.

5.3 3D Quality Requirements

- Textures shall be natural color, consistently exposed, and mapped without systematic misregistration, repeated textures, or conspicuous seams.
- Meshes shall not contain material floating components, inverted geometry, duplicate surfaces, spikes, collapsed walls, or holes on clearly visible major surfaces.
- Vegetation, vehicles, water, reflective surfaces, narrow wires, and severe occlusions may be generalized if documented and handled consistently.
- Downtown tiles and individual models shall load at multiple levels of detail appropriate for desktop and web visualization.
- The contractor shall state the achieved texture resolution, triangle density, level-of-detail strategy, and decimation method.

5.4 Required 3d Deliverables

- OGC 3D Tiles, version 1.1 or current accepted version, for the downtown AOI and authorized public buildings.
- glTF/GLB and OBJ with associated material and texture files for each public-building model.
- A mutually agreed archival mesh format for the downtown model, such as OBJ, OSGB, or equivalent broadly documented format.

5.0 Technical Scope – 3D Modeling (Continued):

- Surface model or DSM used for the 3D AOIs in GeoTIFF or another City-approved open raster format.
- Model index in GeoPackage and Esri File Geodatabase with asset ID, name, address, source dates, model extent, format locations, status, and exception flags.
- Preview access during acceptance through a contractor-hosted review portal or City-compatible local viewer at no additional charge through final acceptance.

6.0 Survey Control and Positional Accuracy:

6.1 Standards

Accuracy planning, testing, and reporting shall follow the *ASPRS Positional Accuracy Standards for Digital Geospatial Data, Edition 2*, or the current edition at the time of contract, supplemented by the project-specific thresholds below. The proposal shall clearly distinguish GSD, relative precision, and absolute positional accuracy.

6.2 Project Coordinate Reference System

The authoritative project CRS will be confirmed at kickoff. The anticipated horizontal reference is the City's current Louisiana State Plane North implementation based on NAD83(2011), with units confirmed by the City. Elevation products are anticipated to use NAVD88 and GEOID18 or the City's then-current standard. The contractor shall also deliver a WGS84/Ellipsoidal or Earth-centered representation where needed for 3D Tiles and document all transformations.

6.3 Minimum Accuracy Thresholds

Product	Required tested accuracy
Citywide orthophoto	Horizontal RMSEr of 1 foot (12 inches) or better against independent, photo-identifiable checkpoints, with the corresponding 95% confidence statistic reported under ASPRS terminology.
Downtown and public-building 3D products	Horizontal RMSEr of .5 foot (6 inches) or better and vertical RMSEz of 1 foot (12 inches) or better on clearly defined, nonvegetated check surfaces or points suitable for the test.
Relative seam alignment	Visible displacement across accepted orthophoto seams shall not exceed three final pixels at sampled hard features.

6.0 Survey Control and Positional Accuracy (Continued):

A proposer may commit to tighter accuracy. Any better value stated as guaranteed in the proposal becomes a contractual acceptance requirement.

6.4 Control and Checkpoints

- The contractor shall design and provide all control required by its method unless the City expressly agrees otherwise.
- Survey work shall be performed under the responsible charge of professionals licensed where Louisiana law requires.
- Use at least 30 well-distributed independent horizontal checkpoints for the citywide orthophoto, with an appropriate subset also suitable for vertical testing. The final count and distribution are subject to City approval.
- Control used in adjustment or processing shall not be reported as independent checkpoints.
- The contractor shall deliver control descriptions, coordinates, datum and geoid information, survey methods, photographs, equipment, observation dates, residuals, and signed reports where applicable.

7.0 Acquisition Requirements:

7.1 Acquisition Plan

Along with the proposal, the contractor shall submit a detailed acquisition plan showing the AOIs, flight or capture blocks, proposed dates, sensor systems, nominal altitudes or stand-off distances, overlap, control, checkpoint plan, airspace strategy, site coordination, crew assignments, backup resources, security procedures, and expected GSD.

7.2 Environmental Conditions

- Acquisition shall occur under conditions suitable for clear municipal mapping, during leaf-off or reduced-foliage conditions.
- The ground shall be free from flooding or abnormal standing water unless accepted by the City.
- Imagery used in final products shall be free of clouds, cloud shadows, fog, haze, smoke, dust, precipitation, and other atmospheric conditions that obscure required features or materially alter radiometry.
- Sun angle should exceed 20 degrees for citywide ortho acquisition unless the contractor demonstrates that a different condition improves a specific 3D or facade capture without harming the orthophoto.
- Acquisition times and conditions shall minimize excessive shadows, glare, reflective artifacts, traffic occlusion, and inconsistent appearance.

7.0 Acquisition Requirements (Continued):

7.3 Regulatory, Safety, and Airspace

- The contractor is responsible for FAA compliance, remote pilot or aircrew qualifications, airspace authorizations, waivers, notices, traffic control, property access, and operating permissions.
- The proposal shall identify anticipated controlled-airspace constraints and describe how the contractor will maintain the required resolution and schedule without unsafe or unauthorized operations.
- The contractor shall maintain an incident response plan and immediately notify the City of any reportable safety, security, privacy, or regulatory incident associated with the work.

7.4 Capture QA and Reacquisition

Raw acquisition shall be reviewed promptly. Within seven business days after each major block, the contractor shall submit a capture QA summary including dates and times, coverage, weather, sun angle, GSD, flight or mission logs, GNSS/IMU status, anomalies, and planned reacquisition. Areas that fail contractual requirements due to contractor planning, execution, equipment, or processing shall be reacquired or corrected at no additional cost.

7.5 Emergency and Post-Repair Acquisition

The contractor shall maintain an emergency acquisition capability throughout the initial contract term and every exercised option period. For one Qualifying Emergency Event, the fixed contract price includes two separate no-charge acquisitions: an immediate post-event damage flight and one Restoration Flight after City-designated repairs. These obligations are mandatory base services and are not optional emergency task orders.

7.5.1 Lower-Threshold Events

The thresholds below require mobilization for Category 2 hurricanes, EF3 tornadoes, magnitude 5.0 earthquakes, and establishes objective triggers for other hazards.

7.5.2 Qualifying Emergency Events

- Hurricane or tropical cyclone: a storm classified by the National Hurricane Center as Category 2 or higher and when the storm causes documented physical damage within the City.
- Tornado: a tornado preliminarily or finally rated EF3 or higher by the National Weather Service when its damage path intersects the City, or when City-observed conditions reasonably indicate EF3-level damage before an official rating is available.
- Earthquake: an earthquake reported by the U.S. Geological Survey at magnitude 5.0 or higher that causes observed damage to buildings, transportation, utilities, flood-control works, or other critical infrastructure within the City.

7.0 Acquisition Requirements (Continued):

- Flood: a National Weather Service gauge serving Alexandria reaches or is forecast to reach moderate flood stage; flooding causes an evacuation, loss of a critical public service, or physical damage within the City.
- Wildfire: a wildfire enters the City, causes physical damage within the City, triggers a mandatory evacuation affecting any part of the City, or causes the City to activate protective measures for a populated area or critical infrastructure.
- Terrorist attack, explosion, or deliberate destructive act: an event producing physical damage within the City and activation of the City's emergency operations function or a local emergency declaration.
- Tsunami, storm surge, or dam or levee emergency: an event producing inundation, mandatory evacuation, or physical damage to critical infrastructure within the City.
- Other City-declared disaster: a fire, industrial accident, transportation incident, structural collapse, or other occurrence for which the Mayor or authorized official declares a local emergency and the City project manager documents that aerial imagery is needed because the event caused death or serious injury, mandatory evacuation, closure of an arterial roadway, loss of a critical public service for four or more hours, or physical damage to ten or more structures.

7.5.3 Activation and Mobilization

- The Mayor, emergency-management director, City project manager, or written designee may issue an Emergency Activation Notice by email or other documented electronic means. The notice will identify the event, preliminary Emergency AOI, requested products, known restrictions, and City coordination contact.
- The contractor shall acknowledge activation within 8 hours, provide an initial acquisition and airspace plan within 24 hours, and commit the necessary crew, aircraft or UAS, sensor, and processing capacity within 48 hours.
- Acquisition shall begin in the earliest lawful and safe weather and airspace window and, absent a documented safety, weather, access, or regulatory restriction, no later than 72 hours after activation. The contractor shall report any restriction at least every 12 hours and proceed at the first available window.
- Emergency performance may not be denied, queued behind commercial work, or conditioned on discretionary resource availability. The contractor shall maintain or arrange backup personnel, platforms, sensors, and processing capacity sufficient to perform this requirement.
- For this section, a flight means the acquisition mission or missions needed to cover the complete Emergency AOI; it is not limited to one aircraft sortie. At the City's direction, coverage shall include the entire City AOI.

7.0 Acquisition Requirements (Continued):

7.5.4 Emergency Products and Delivery

- Each emergency and Restoration Flight shall acquire natural-color nadir imagery at 2-inch GSD or better throughout the Emergency AOI. The contractor shall use consistent sensor geometry, coordinate reference, pixel alignment, radiometry, and processing for the paired flights to support direct comparison and change analysis.
- The contractor shall provide georeferenced preliminary imagery or a secure web review layer within 72 hours after acquisition, a provisional orthomosaic within 10 business days after acquisition completes, and final COG and GeoTIFF orthophotography, source-image index, acquisition metadata, QA report, and file manifest within 20 business days after acquisition completes.
- Emergency imagery may reflect unavoidable active-disaster conditions, but clouds, smoke, water, access restrictions, and other obscuration shall be mapped and documented. Any uncovered area shall be reacquired at the first safe and lawful opportunity at no additional charge.
- The data rights, security, delivery, metadata, integrity, and correction requirements of Sections 12 through 14 apply to emergency products. The City may authorize an abbreviated provisional workflow but does not waive final acceptance requirements.

7.5.5 Restoration Flight

- After each Qualifying Emergency Event, the City may issue one Restoration Flight Notice when emergency stabilization, debris removal, reconstruction, or repair of the affected public infrastructure and buildings is substantially complete enough to document restored conditions. The City controls the timing and may wait for phased work to reach a useful comparison point.
- The contractor shall acquire the Restoration Flight within 10 business days after notice, subject only to documented lawful-flight, safety, weather, and access restrictions, and shall use the same Emergency AOI and the same or better specifications as the immediate post-event flight unless the City approves a change.
- The Restoration Flight, processing, hosting through acceptance, deliverables, QA/QC, and corrections are included at no additional charge. A contractor may not substitute archived, third-party, satellite, or previously scheduled refresh imagery unless the City expressly approves the substitution in writing.
- Additional City-requested flights beyond the two included acquisitions for the same one event require a written task order using the competitively established unit price in Attachment D.

8.0 Project Schedule and Milestones:

The following schedule is the City's preferred framework. Final calendar dates will be inserted before release or established by written notice to proceed.

Milestone	Target
Notice to proceed and kickoff	[DATE; suggested no later than December 15, 2026]
Acquisition, QA/QC, and control plan	Within 15 calendar days after notice to proceed
Primary capture window	[Suggested January 1 through March 15, 2027]
Capture QA report	Within 7 business days after each major acquisition block
Emergency activation acknowledgment / initial plan	Within 8 hours / 24 hours after Emergency Activation Notice
Emergency mobilization / acquisition	Within 48 hours / earliest safe and lawful window, normally no later than 72 hours after activation
Emergency preliminary / provisional / final products	Within 72 hours / 10 business days / 20 business days after acquisition
Restoration Flight	Within 10 business days after City notice, subject to documented safe and lawful acquisition conditions
Pilot orthophoto and 3D models	Within 21 calendar days after successful pilot acquisition
Draft citywide orthophoto	Within 45 calendar days after completion of accepted citywide acquisition
Draft downtown and building models	Within 75 calendar days after completion of the applicable acquisition
City review period	15 business days per complete draft submission
Corrected final delivery	Within 20 business days after consolidated City comments
Final completion	[Suggested no later than June 30, 2027]

8.0 Project Schedule and Milestones (Continued):

Documented days on which required acquisition cannot lawfully or safely proceed because of weather, emergency airspace restrictions, City-directed suspension, denied site access, or force majeure may support an equitable schedule extension. Ordinary seasonal weather and foreseeable airspace coordination are contractor planning responsibilities.

9.0 Quality Assurance and Acceptance:

9.1 QA/QC Gates

Kickoff approval: AOIs, asset list, CRS, formats, control, security classifications, schedule, and acquisition plan.

Capture approval: coverage, conditions, GSD, source quality, airspace records, and reacquisition plan.

Pilot approval: a City-selected representative orthophoto area, a downtown 3D block, and at least one individual public-building model.

Draft production review: complete deliverables, metadata, QA reports, exception register, and review access.

Final acceptance: correction of defects, delivery of all approved files and documentation, and written City acceptance.

9.2 Pilot Area

The City will select a representative pilot after award. The pilot will include dense urban features, vegetation, transportation features, and at least one building with facade complexity. Acceptance of the pilot authorizes full production but does not waive defects later discovered elsewhere.

9.3 Minimum Acceptance Criteria

- 100% required AOI coverage with no unapproved voids.
- Verified final GSD of 0.6 inch or better.
- Independent checkpoint reports demonstrating the required accuracy.
- Correct CRS, units, georeferencing, file structure, naming, and metadata.
- Natural and consistent radiometry without material seam, blur, or exposure defects.
- No systematic missing objects, duplicate objects, warped hard features, or uncorrected edge artifacts.
- 3D models load in the agreed validation tools and are complete, georeferenced, textured, tiled, and free of material mesh defects.
- All final files pass integrity checks and are free of malicious code.

9.4 Defect Correction

The City will provide consolidated defects by tile, block, model, or asset where practicable. The contractor shall correct confirmed defects without additional cost and provide a disposition log. If

9.0 Quality Assurance and Acceptance (Continued):

defects are systematic or substantial, the City may reject the affected batch and require the contractor to reinspect the entire production block before resubmission.

10.0 Reports, Metadata, and Documentation:

- Project management plan and schedule.
- Acquisition and airspace plan.
- Sensor calibration reports and relevant equipment documentation.
- Flight, mission, weather, coverage, and source-image index records.
- Aerotriangulation or bundle-adjustment report with residuals and statistics.
- Accuracy report using ASPRS Edition 2 terminology.
- Orthophoto radiometry, seamline, and production QA report.
- 3D production report documenting input sources, model parameters, texture resolution, decimation, levels of detail, and known limitations.
- Exception register identifying occlusions, access restrictions, security restrictions, reflective or water surfaces, vegetation, and accepted deviations.
- Emergency activation, mobilization, acquisition, restriction, delivery, and Restoration Flight records required by Section 10.5.
- File manifest with path, size, date, format, coordinate reference, and SHA-256 checksum.
- Metadata conforming to FGDC CSDGM or ISO 19115/19139 as agreed at kickoff, provided in machine-readable XML and human-readable PDF or HTML.

11.0 Data Delivery, Rights, and Security:

11.1 Delivery

Final deliverables shall be provided on encrypted physical media supplied by the contractor, secure electronic transfer, or both, as approved by the City. Delivery is not complete until the City verifies checksums, opens representative files, validates the coordinate reference, and confirms the complete manifest.

11.2 Final Deliverable Rights

Upon payment, the City shall receive a perpetual, irrevocable, royalty-free license to use, reproduce, archive, modify, combine, publish where lawful, distribute internally, share with governmental partners, and create governmental derivative works from final accepted deliverables.

The contractor retains ownership of preexisting intellectual property, generic methods, software, production tools, reusable know-how, and contractor-owned raw or intermediate materials not expressly identified as final deliverables. Raw frames, dense production point clouds, and intermediate project files are not required for base delivery unless listed in the price schedule or purchased as an alternate.

11.0 Data Delivery, Rights, and Security (Continued):

11.3 Security and Sensitive Facilities

The City may classify selected public-building models as sensitive. Sensitive data shall be encrypted in transit and at rest, limited to personnel with a need to know, and excluded from public demonstrations and portfolio materials. The contractor shall identify all production and storage locations and all subcontractors with access to City data. Offshore production or storage shall be disclosed and is subject to City approval.

11.4 Records Retention

The contractor shall retain sufficient source and production materials to reproduce or correct accepted deliverables for at least three years after final acceptance, unless a different period is negotiated. At the end of retention, sensitive City data shall be securely destroyed or returned as directed.

12.0 City Responsibilities:

The City will:

- Provide authoritative AOI boundaries, the downtown polygon, the initial building list, available parcel and GIS reference layers, and the desired enterprise CRS.
- Designate a project manager and coordinate access to City-controlled sites.
- Identify known security restrictions and sensitive assets.
- Review complete submissions within the stated review periods or provide a revised schedule.
- Make available relevant existing control, elevation, or imagery data without warranting that it is sufficient for contractor production.

13.0 Qualifications and Demonstrations:

Proposers should demonstrate successful delivery of projects comparable in technical difficulty, resolution, urban complexity, 3D scope, and schedule. The City will evaluate substance and relevance rather than geographic quantity alone.

Provide two to three references. At least one reference should involve wide-area imagery at sub-1-inch GSD or better, and at least one should involve a textured urban or campus-scale 3D mesh. If the same project satisfies both, explain the relevant scope, size, acquisition method, achieved GSD, tested accuracy, schedule, and proposer role.

Provide access to the following representative materials, subject to prior client permissions:

- Native-resolution orthophoto sample and corresponding metadata.
- Downtown, campus, or complex-facility 3D Tiles sample.
- Individual building model in GLB or OBJ.
- Production QA report and defect-correction example.

14.0 Evaluation and Award:

14.1 Responsiveness Gate

The City will first determine whether each proposal is timely, properly signed, materially complete, and compliant with Section 6. Only responsive and responsible proposers will be scored.

14.2 Award

Award may be made to the highest-ranked responsive and responsible proposer whose proposal is determined most advantageous to the City at the lowest cumulative price. The City may request clarifications, conduct discussions or negotiations as permitted by law, verify references, inspect facilities, and request a best and final offer.

The City reserves the right to reject any or all proposals for cause, cancel or reissue the solicitation, waive minor informalities where lawful, and award all or a portion of the scope in the City's best interest. The City presently intends one integrated award.

14.3 Scored Criteria

Criterion	Points	Evaluation emphasis
Technical approach and compliance	30	Credibility and completeness of the integrated acquisition, orthophoto, 3D, delivery, and correction approach; ability to meet or exceed mandatory performance.
Comparable high-resolution production experience	20	Demonstrated delivery of wide-area sub-inch or approximately 1-inch imagery, tested accuracy, and reference quality.
3D modeling quality and interoperability	15	Urban mesh and individual-building quality, open formats, levels of detail, texture quality, security controls, and sample performance.
QA/QC and accuracy validation	15	Control design, independent checkpoints, reports, pilot process, defect detection, and correction commitments.

Criterion	Points	Evaluation emphasis
Schedule, capacity, and risk mitigation	10	Aircraft/UAS resources, emergency mobilization, airspace planning, backup capability, staffing, processing capacity, and schedule realism.
Price and overall value	7	Evaluated base price, transparent unit prices, life-cycle value, and absence of avoidable recurring fees.
AFEAT and local participation	3	Documented good-faith effort and meaningful participation consistent with current City requirements.
Total	100	

15.0 Price Proposal and Payment:

15.1 Pricing Rules

All pricing shall include project management, labor, travel, mobilization, aircraft and UAS operations, sensors, control, checkpoints, permits, airspace coordination, site coordination, processing, storage during production, QA/QC, reports, delivery media, correction, overhead, and profit unless separately identified as an approved alternate. The two acquisitions required for each Qualifying Emergency Event under Section 10.5 are included as mandatory services and shall not generate mobilization, standby, flight, processing, hosting, delivery, or per-square-mile charges. Taxes from which the City is exempt shall not be included.

15.2 Suggested Milestone Payments

Accepted milestone	Maximum share of base contract
Project plan, acquisition plan, control plan, and schedule. After NTP.	33.33%
Complete draft citywide orthophoto and reports.	33.33%
Final correction, delivery, documentation, and written acceptance.	33.33%

Payments are subject to acceptance and a proper invoice. The City will schedule payment under its current standard terms, anticipated to be within 30 days after receipt of a correct invoice and an accepted milestone.

16.0 Contract and Administrative Requirements:

16.1 Contract Term

Initial Term: Three (3) years from Notice to Proceed, with up to two (2) one-year renewal options at the City's sole discretion. Imager/LiDAR priced per collection cycle. All pricing guaranteed through the initial term; renewal increases not to exceed 3% or annual CPI-U change.

16.2 Insurance

Before performance, the selected contractor shall provide insurance from authorized carriers with limits provided above in Proposal Instructions 1.11. The City shall be named as an additional insured where applicable.

16.3 General Legal and Administrative Conditions

- Louisiana law and venue in the City of Alexandria, Rapides Parish shall govern.
- The contractor shall comply with all applicable federal, state, and local laws, including procurement, aviation, labor, privacy, public records, nondiscrimination, and licensing requirements.
- Maintain throughout the contract: (a) CGL \$1M/\$2M; (b) Auto Liability \$1M CSL; (c) Workers' Compensation statutory; (d) Professional Liability/E&O \$1M; (e) Cyber Liability \$2M; (f) Aircraft Liability \$10M. City named as additional insured on CGL and auto. 30-day cancellation notice required.
- Vendor shall indemnify, defend, and hold harmless the City and AUS, its officers, employees, and agents from any claims, damages, losses, or expenses (including attorney's fees) arising from Vendor's performance, negligence, or wrongful acts.
- The contractor shall comply with Louisiana R.S. 38:2212.10 status-verification requirements and submit the City's current affidavit.
- The contractor shall participate in and document good-faith efforts under the City's current Alexandria Fairness, Equality, Accessibility, and Teamwork (AFEAT) Program.
- The selected contractor shall disclose and obtain approval for material subcontractors and remain fully responsible for their work.
- Proposal preparation costs are the proposer's responsibility.
- Proposals and resulting records are subject to Louisiana public-records law. Proposers shall clearly identify any specific material claimed confidential and state the legal basis; blanket confidentiality markings are ineffective.
- All data is treated as confidential. Information security program consistent with NIST SP 800-53 Rev. 5 (Moderate baseline). 72-hour breach notification required.
- The City may terminate for cause after notice and opportunity to cure, or for convenience with payment for accepted work and reasonable authorized closeout costs, as provided in the final contract.
- Contract and deliverables are subject to R.S. 44:1 et seq. Trade secret designations may be submitted with an affidavit; do not guarantee confidentiality.

16.0 Contract and Administrative Requirements:

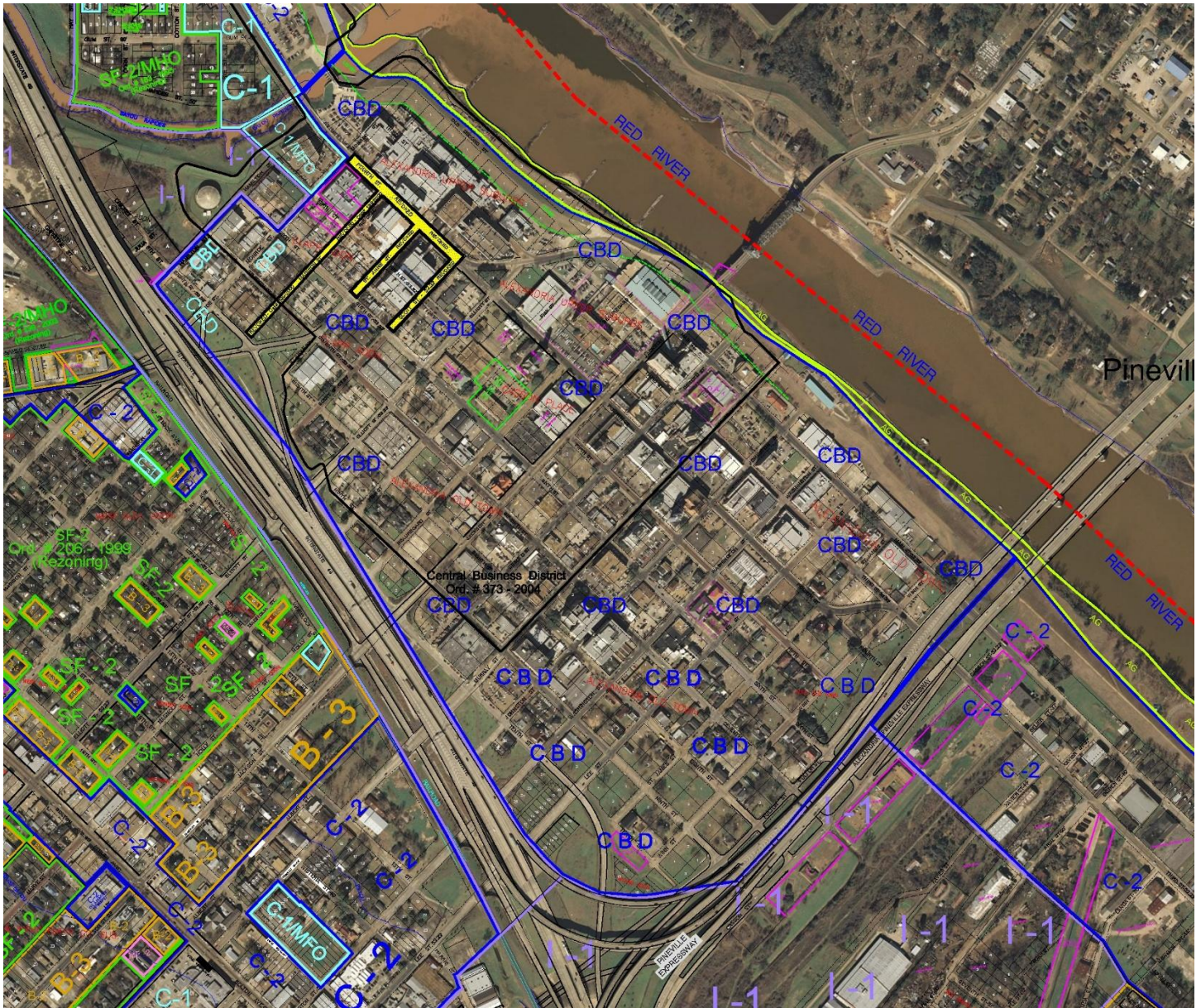
- Neither party is in default if performance is prevented by circumstances beyond reasonable control, with prompt notice and commercially reasonable efforts to resume.
- No equipment from manufacturers prohibited under National Defense Authorization Act §889 (2019), including the use of any component of this contract.
 - Telecommunications & Video Surveillance:
 - Huawei Technologies Company [drexel.edu], [gsa.gov]
 - ZTE Corporation [drexel.edu], [gsa.gov]
 - Hytera Communications Corporation [drexel.edu], [gsa.gov]
 - Hangzhou Hikvision Digital Technology Company (Hikvision) [drexel.edu], [gsa.gov]
 - Dahua Technology Company [drexel.edu], [gsa.gov](This includes cameras, NVRs/DVRs, radios, switches, network gear, and services.)

Additional DoD-Identified Chinese Military Companies

- DJI Technology (drones) [jdsupra.com]
- Autel Robotics (drones) [jdsupra.com]
- BGI Genomics (biotech/genomics) [jdsupra.com]
- CRRC Corporation (rail/industrial systems) [jdsupra.com]
- Tencent (technology platforms) [thehill.com]
- CATL (EV batteries) [thehill.com]

Attachments and Response Forms

Attachment A – Downtown 3D Area



Attachment B – City-Owned Building Schedule

Asset ID	Facility name	Address/site	Security class
City Hall	City Hall	915 3 rd Street, Alexandria, LA 71301	Public / Controlled
Customer Service	Customer Service	625 Murray St., Alexandria, LA 71301	Public / Controlled
Add rows or attach the City's authoritative facility list.			

Attachment C – Compliance Matrix

Requirement	Comply	Exception	Proposal reference
Citywide GSD: Commit to final accepted orthophotography at 0.6-inch GSD or better throughout the required City AOI.			
Complete 3D scope: Commit to both a continuous downtown textured mesh and individual models for all buildings authorized under the contract.			
Open delivery: Deliver the orthophotography and 3D products in the open or broadly interoperable formats specified in this RFP, independent of any optional viewer.			
Accuracy validation: Accept independent checkpoint testing and submit the reports and residuals required by this RFP.			
Regulatory responsibility: Obtain all FAA authorizations, airspace approvals, waivers, permits, site permissions, and professional services required for the proposed method.			
Prime responsibility: Serve as a single accountable prime contractor responsible for all subcontractors, products, corrections, and schedule commitments.			
Fixed base price: Provide a fixed, not-to-exceed price for the defined base scope and separately stated unit prices for variable building quantities and approved alternates.			
Data access: Grant the City perpetual rights to use, copy, archive, distribute internally, and create governmental derivatives from all final accepted deliverables.			
Emergency lifecycle imagery: Include, at no additional charge for each Qualifying Emergency Event during the contract term, one immediate post-event acquisition and one Restoration Flight meeting Section 10.5, without a resource-availability exception, mobilization fee, flight fee, or per-square-mile charge.			
Natural-color RGB, minimum 8 bits per band.			
Final pixel size no greater than 0.6 inch throughout the accepted City AOI.			

Requirement	Comply	Exception	Proposal reference
Nadir imagery shall be the primary source for the orthophoto. An orthophoto generated solely by rectifying oblique images is not acceptable.			
Images shall be sharp at native resolution and free of unacceptable motion blur, rolling-shutter distortion, compression artifacts, vignetting, blooming, banding, dead pixels, and focus variation.			
Color, brightness, contrast, and saturation shall be balanced across flight blocks and seamlines while retaining natural feature detail.			
No production resampling may be used to make coarser source imagery appear to satisfy the required GSD.			
Rectification shall use calibrated sensor geometry, adjusted exterior orientation, appropriate control, and a terrain or surface model adequate for the required accuracy.			
Seamlines shall be reviewed manually or by an equivalent validated process. Seamlines should avoid splitting buildings, bridges, elevated structures, and other prominent features where practicable.			
Roads, curbs, building corners, utility features, rail lines, bridges, and other hard features shall align across seams without visually disruptive displacement.			
Wavy linear features, duplicated objects, missing features, stretched pavement markings, false elevation effects, and abrupt radiometric edges are not acceptable.			
The downtown 3D AOI and each authorized public-building site shall receive true-ortho or equivalent occlusion-aware treatment sufficient to minimize building lean and reveal ground features adjacent to structures.			
Uncompressed tiled GeoTIFF orthophotography with embedded georeferencing and internal overviews.			

Requirement	Comply	Exception	Proposal reference
Cloud Optimized GeoTIFF tiles or mosaics suitable for HTTP range-based access.			
A seamless City mosaic in a format and segmentation agreed at kickoff.			
Tile index in GeoPackage and Esri File Geodatabase, showing tile ID, source acquisition date or date range, GSD, production block, and acceptance status.			
Low-resolution browse mosaic for rapid reference.			
Project, block, and tile-level metadata as specified in Section 13.			
Textures shall be natural color, consistently exposed, and mapped without systematic misregistration, repeated textures, or conspicuous seams.			
Visible roof edges and facade lines shall be crisp and stable at the intended display scale.			
Meshes shall not contain material floating components, inverted geometry, duplicate surfaces, spikes, collapsed walls, or holes on clearly visible major surfaces.			
Vegetation, vehicles, water, reflective surfaces, narrow wires, and severe occlusions may be generalized if documented and handled consistently.			
Downtown tiles and individual models shall load at multiple levels of detail appropriate for desktop and web visualization.			
The contractor shall state the achieved texture resolution, triangle density, level-of-detail strategy, and decimation method.			
OGC 3D Tiles, version 1.1 or current accepted version, for the downtown AOI and authorized public buildings.			
glTF/GLB and OBJ with associated material and texture files for each public-building model.			

Requirement	Comply	Exception	Proposal reference
A mutually agreed archival mesh format for the downtown model, such as OBJ, OSGB, or equivalent broadly documented format.			
Surface model or DSM used for the 3D AOIs in GeoTIFF or another City-approved open raster format.			
Model index in GeoPackage and Esri File Geodatabase with asset ID, name, address, source dates, model extent, format locations, status, and exception flags.			
Preview access during acceptance through a contractor-hosted review portal or City-compatible local viewer at no additional charge through final acceptance.			
The contractor shall design and provide all control required by its method unless the City expressly agrees otherwise.			
Survey work shall be performed under the responsible charge of professionals licensed where Louisiana law requires.			
Use at least 30 well-distributed independent horizontal checkpoints for the citywide orthophoto, with an appropriate subset also suitable for vertical testing. The final count and distribution are subject to City approval.			
Control used in adjustment or processing shall not be reported as independent checkpoints.			
The contractor shall deliver control descriptions, coordinates, datum and geoid information, survey methods, photographs, equipment, observation dates, residuals, and signed reports where applicable.			
Acquisition shall occur under conditions suitable for clear municipal mapping, preferably during leaf-off or reduced-foliage conditions where practicable.			
The ground shall be free from flooding or abnormal standing water unless accepted by the City.			

Requirement	Comply	Exception	Proposal reference
Imagery used in final products shall be free of clouds, cloud shadows, fog, haze, smoke, dust, precipitation, and other atmospheric conditions that obscure required features or materially alter radiometry.			
Sun angle should exceed 20 degrees for citywide ortho acquisition unless the contractor demonstrates that a different condition improves a specific 3D or facade capture without harming the orthophoto.			
Acquisition times and conditions shall minimize excessive shadows, glare, reflective artifacts, traffic occlusion, and inconsistent appearance.			
The contractor is responsible for FAA compliance, remote pilot or aircrew qualifications, airspace authorizations, waivers, notices, traffic control, property access, and operating permissions.			
The proposal shall identify anticipated controlled-airspace constraints and describe how the contractor will maintain the required resolution and schedule without unsafe or unauthorized operations.			
The contractor shall maintain an incident response plan and immediately notify the City of any reportable safety, security, privacy, or regulatory incident associated with the work.			
Hurricane or tropical cyclone: a storm classified by the National Hurricane Center as Category 1 or higher when the City or Rapides Parish is under a hurricane warning, or when the storm causes documented physical damage within the City.			
Tornado: a tornado preliminarily or finally rated EF3 or higher by the National Weather Service when its damage path intersects the City, or when City-observed conditions reasonably indicate EF3-level damage before an official rating is available.			
Earthquake: an earthquake reported by the U.S. Geological Survey at magnitude 5.0 or higher that causes observed damage to buildings, transportation, utilities, flood-control works, or other critical infrastructure within the City.			

Requirement	Comply	Exception	Proposal reference
Flood: a National Weather Service gauge serving Alexandria reaches or is forecast to reach moderate flood stage; a Flash Flood Emergency includes any part of the City; or flooding causes an evacuation, closure of an arterial roadway, loss of a critical public service, or physical damage within the City. Moderate flood stage is one categorical tier below the major-flood-stage baseline found in reviewed vendor terms.			
Wildfire: a wildfire enters the City, causes physical damage within the City, triggers a mandatory evacuation affecting any part of the City, or causes the City to activate protective measures for a populated area or critical infrastructure.			
Terrorist attack, explosion, or deliberate destructive act: an event producing physical damage within the City and activation of the City's emergency operations function or a local emergency declaration.			
Tsunami, storm surge, or dam or levee emergency: an event producing inundation, mandatory evacuation, or physical damage to critical infrastructure within the City.			
Other City-declared disaster: a fire, straight-line wind event, hail event, industrial accident, transportation incident, structural collapse, or other occurrence for which the Mayor or authorized official declares a local emergency and the City project manager documents that aerial imagery is needed because the event caused death or serious injury, mandatory evacuation, closure of an arterial roadway, loss of a critical public service for four or more hours, or physical damage to ten or more structures.			
The Mayor, emergency-management director, City project manager, or written designee may issue an Emergency Activation Notice by email or other documented electronic means. The notice will identify the event, preliminary Emergency AOI, requested products, known restrictions, and City coordination contact.			

Requirement	Comply	Exception	Proposal reference
The contractor shall acknowledge activation within eight hours, provide an initial acquisition and airspace plan within twenty four hours, and commit the necessary crew, aircraft or UAS, sensor, and processing capacity within 48 hours.			
Acquisition shall begin in the earliest lawful and safe weather and airspace window and, absent a documented safety, weather, access, or regulatory restriction, no later than 72 hours after activation. The contractor shall report any restriction at least every 12 hours and proceed at the first available window.			
Emergency performance may not be denied, queued behind commercial work, or conditioned on discretionary resource availability. The contractor shall maintain or arrange backup personnel, platforms, sensors, and processing capacity sufficient to perform this requirement.			
For this section, a flight means the acquisition mission or missions needed to cover the complete Emergency AOI; it is not limited to one aircraft sortie. At the City's direction, coverage shall include the entire City AOI.			
Each emergency and Restoration Flight shall acquire natural-color nadir imagery at 2-inch GSD or better throughout the Emergency AOI. The contractor shall use consistent sensor geometry, coordinate reference, pixel alignment, radiometry, and processing for the paired flights to support direct comparison and change analysis.			
The contractor shall provide georeferenced preliminary imagery or a secure web review layer within 72 hours after acquisition, a provisional orthomosaic within 10 business days, and final COG and GeoTIFF orthophotography, source-image index, acquisition metadata, QA report, and file manifest within 20 business days.			

Requirement	Comply	Exception	Proposal reference
Emergency imagery may reflect unavoidable active-disaster conditions, but clouds, smoke, water, access restrictions, and other obscuration shall be mapped and documented. Any uncovered area shall be reacquired at the first safe and lawful opportunity at no additional charge.			
The data rights, security, delivery, metadata, integrity, and correction requirements of Sections 12 through 14 apply to emergency products. The City may authorize an abbreviated provisional workflow but does not waive final acceptance requirements.			
After each Qualifying Emergency Event, the City may issue one Restoration Flight Notice when emergency stabilization, debris removal, reconstruction, or repair of the affected public infrastructure and buildings is substantially complete enough to document restored conditions. The City controls the timing and may wait for phased work to reach a useful comparison point.			
The contractor shall acquire the Restoration Flight within 10 business days after notice, subject only to documented lawful-flight, safety, weather, and access restrictions, and shall use the same Emergency AOI and the same or better specifications as the immediate post-event flight unless the City approves a change.			
The Restoration Flight, processing, hosting through acceptance, deliverables, QA/QC, and corrections are included at no additional charge. A contractor may not substitute archived, third-party, satellite, or previously scheduled refresh imagery unless the City expressly approves the substitution in writing.			
Additional City-requested flights beyond the two included acquisitions for an event require a written task order using the competitively established unit price in Attachment D.			
Project management plan and schedule.			
Acquisition and airspace plan.			

Requirement	Comply	Exception	Proposal reference
Sensor calibration reports and relevant equipment documentation.			
Flight, mission, weather, coverage, and source-image index records.			
Aerotriangulation or bundle-adjustment report with residuals and statistics.			
Accuracy report using ASPRS Edition 2 terminology.			
Orthophoto radiometry, seamline, and production QA report.			
3D production report documenting input sources, model parameters, texture resolution, decimation, levels of detail, and known limitations.			
Exception register identifying occlusions, access restrictions, security restrictions, reflective or water surfaces, vegetation, and accepted deviations.			
Emergency activation, mobilization, acquisition, restriction, delivery, and Restoration Flight records required by Section 10.5.			
File manifest with path, size, date, format, coordinate reference, and SHA-256 checksum.			
Metadata conforming to FGDC CSDGM or ISO 19115/19139 as agreed at kickoff, provided in machine-readable XML and human-readable PDF or HTML.			
Provide authoritative AOI boundaries, the downtown polygon, the initial building list, available parcel and GIS reference layers, and the desired enterprise CRS.			
Designate a project manager and coordinate access to City-controlled sites.			
Identify known security restrictions and sensitive assets.			
Review complete submissions within the stated review periods or provide a revised schedule.			

Requirement	Comply	Exception	Proposal reference
Make available relevant existing control, elevation, or imagery data without warranting that it is sufficient for contractor production.			
Commercial general liability: \$1,000,000 per occurrence.			
Automobile liability: \$1,000,000 combined single limit.			
Aircraft liability: \$10,000,000 per occurrence, applicable to all proposed flight operations.			
Louisiana law and venue in Rapides Parish shall govern.			
The contractor shall comply with all applicable federal, state, and local laws, including procurement, aviation, labor, privacy, public records, nondiscrimination, and licensing requirements.			
The contractor shall comply with Louisiana R.S. 38:2212.10 status-verification requirements and submit the City's current affidavit.			
The contractor shall participate in and document good-faith efforts under the City's current Alexandria Fairness, Equality, Accessibility, and Teamwork (AFEAT) Program.			
The selected contractor shall disclose and obtain approval for material subcontractors and remains fully responsible for their work.			
Proposal preparation costs are the proposer's responsibility.			
Proposals and resulting records are subject to Louisiana public-records law. Proposers shall clearly identify any specific material claimed confidential and state the legal basis; blanket confidentiality markings are ineffective.			
The contractor shall indemnify the City to the extent provided in the final City contract and shall protect the City against third-party intellectual-property claims arising from contractor deliverables.			

Requirement	Comply	Exception	Proposal reference
The City may terminate for cause after notice and opportunity to cure, or for convenience with payment for accepted work and reasonable authorized closeout costs, as provided in the final contract.			

Attachment D – Price Schedule

Item	Unit	Quantity	Unit price	Extended price
Project management, acquisition planning, airspace coordination, and reporting	Lump sum	1		
Citywide 0.6-inch-or-better orthophotography, complete	Lump sum	1		
Survey control, independent checkpoints, and accuracy reporting	Lump sum	1		
Downtown continuous textured 3D mesh, complete	Lump sum	1		
Individual public-building model, base complexity	Each	[QTY]		
Individual public-building model, high complexity or enhanced facade capture	Each	[QTY]		
Open-format delivery, media, checksums, metadata, and acceptance portal	Lump sum	1		
Mandatory emergency lifecycle service: immediate post-event acquisition and Restoration Flight for a Qualifying Emergency Event beyond the first event covered under Section 10.5	Lump sum	As required		
Base evaluated price				

Optional Alternates

Alternate	Unit	Price
Upgrade citywide orthophoto to 0.4 inch GSD or better	Lump sum	
Upgrade defined priority zones to 0.3 inch GSD or better	Square mile	
Additional areas for textured mesh	Square mile or acre	
Additional public-building model	Each	
Citywide DSM/DTM	Lump sum	
Annual or biennial refresh at same specifications	Per cycle	
Additional emergency or recovery acquisition beyond the two included flights per Qualifying Emergency Event	Mobilization plus square mile	

Attachment E – Vendor Qualification Form

Legal Name of Company:	
D/B/A (if any):	
FEIN/Louisiana Secretary of State Registration No.:	
Principal Address:	
City/State/Zip:	
State of Incorporation/Organization:	
Year Founded:	
Number of Full-Time Employees:	
Number of Louisiana-Based Employees:	
CAGE Code (if applicable)	
GSA Schedule Number (if applicable):	
Key Contact-Technical Name/Title/Email/Phone:	
Key Contact-Contract Name/Title/Email/Phone:	
Primary Product/Platform Name (Imagery/LiDAR)	
Has the company been debarred or suspended from federal or state contracts in the last 5 years? (Y/N – explain if Y):	
Pending or recent litigation material to performance? (Y/N – describe if Y):	
ESRI Partnership Level (if applicable):	
Louisiana Vendor Registration Number (LaPAC):	

Attachment F – Reference Contact Forms

Provide a minimum of three (3) references for government deployments. At least one reference must be a Louisiana municipality or parish. At least one reference must include the component(s) you are proposing (Imagery/LiDAR or Camera Network).

Reference 1

Organization Name:	
Contract/Project Title:	
Scope (Imagery/LiDAR/Combined):	
Project Start/End Date:	
Approximate Contract Value:	
Centerline Miles (if applicable):	
Utilities Located (if applicable):	
Primary Contact Name/Title:	
Phone:	
Email:	
May we contact this reference? (Y/N):	

Reference 2

Organization Name:	
Contract/Project Title:	
Scope (Imagery/LiDAR/Combined):	
Project Start/End Date:	
Approximate Contract Value:	
Centerline Miles (if applicable):	
Utilities Located (if applicable):	
Primary Contact Name/Title:	
Phone:	
Email:	
May we contact this reference? (Y/N):	

Reference 3

Organization Name:	
Contract/Project Title:	
Scope (Imagery/LiDAR/Combined):	
Project Start/End Date:	
Approximate Contract Value:	
Centerline Miles (if applicable):	
Utilities Located (if applicable):	
Primary Contact Name/Title:	
Phone:	
Email:	
May we contact this reference? (Y/N):	