



ORIGINAL



EagleView Response to Johnson County Commission
Solicitation: Aerial Photography and Change
Detection Services

Submitted By

Alexandra Lock
District Sales Manager
(660) 322-0153
alexandra.lock@eagleview.com

EagleView

25 Methodist Hill Dr.
Rochester, NY 14623
www.eagleview.com



October 4, 2024

Diane Thompspon
Johnson County
300 North Holden St., Suite 201
Warrensburg, MO 64093

Dear Diane,

On behalf of Pictometry International Corp. (a member of the EagleView family of companies and herein referred to as "EagleView"), thank you for the opportunity to present our response to the Johnson County Commission Solicitation: Aerial Photography and Change Detection Services. We have reviewed your requirements and believe they align with our strengths as the aerial imagery industry leader.

EagleView has been a trusted provider of digital mapping and high accuracy aerial imagery solutions since 2001. Having delivered products and services to clients for years, we feel confident that EagleView has demonstrated the commitment to excellence expected of a trusted vendor. Highlights of our proposal include:

Superior image clarity and quality: EagleView will deploy its state-of-the-art, custom camera system to collect high-quality ortho and oblique imagery simultaneously at up to 1" GSD resolution. Because we use a small-format proprietary camera, our system captures less atmosphere and produces images with an increased nadir perspective, better radiometric qualities, minimum building and feature lean, greater sharpness (less haze), and are truer to color and tone. We ensure our customers are satisfied with final imagery by performing in-house quality control checks throughout the process.

Industry-leading platform and unique integrations: Our web-based imagery viewing software, Cloud Explorer, provides licensed users with unlimited views and the ability to measure and analyze both ortho and oblique imagery in conjunction with other GIS data. Cloud has established integrations with Esri ArcGIS products, and many widely used CIMA, CAD, and 911 software.

ChangeFinder: EagleView's solution allows users to compare structure and property changes from two different sets of imagery. With these tools, GIS professionals, real property tax agencies, planning departments, and economic development users can reduce field visits with desktop analysis, saving time, travel expenses, and labor costs.

EagleView has a unique, unrivaled combination of industry knowledge, top-notch analytics, next generation data management, technology innovation, and reliability that we believe the County requires in a beneficial, cooperative supplier relationship. Our proposal is built on this belief.

We appreciate the opportunity to participate in this process and look forward to further discussion. Thank you for your consideration.

Regards,

A handwritten signature in dark ink that reads 'Alexandra Lock'.

Alexandra Lock
District Sales Manager
(660) 322-0153
alexandra.lock@eagleview.com

Handwritten initials in dark ink, appearing to be 'ML'.A handwritten signature in dark ink that reads 'Robert Locke'.

Robert Locke
President
(585) 487-1538 x4238
bob.locke@eagleview.com

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Executive Summary

Founded in 2000, Pictometry International Corp. pioneered the acquisition of georeferenced, oblique aerial imagery. Pictometry's patented camera system, which captures oblique and orthogonal imagery simultaneously, is the only one to receive U.S. Geological Survey certification. In January 2013, Pictometry International Corp. merged with Eagle View Technologies, Inc., a provider of aerial roof measurements and property data reports.

EagleView combines imagery that reveals the finest and most crucial details with computer vision to help identify insights into any location from anywhere. By delivering timely, comprehensive answers to complex questions, we help professionals across various industries improve people's lives and make informed decisions.

At EagleView, we have become the unparalleled provider of aerial data and measurement and analytical tools through proprietary software and partner integrations. Our fleet of more than 130 aircraft, 500 cameras (plus spares), and a vast processing/production staff gives us the acquisition and processing capacity to meet aggressive timeframes and, since our inception, we have created several proprietary software programs that have streamlined our flight planning, image capture, and processing procedures.

As the inventor of georeferenced oblique imagery, EagleView has captured and produced aerial imagery data since 2001. Today, EagleView flies and captures roughly 500,000 sq. miles per year has a library of over 1 billion images. This imagery meets positional accuracy requirements, provides maximum features clarity, and exposes details otherwise obscured by atmospheric degradation. Imagery captured using our patented small-format cameras features less building lean than imagery produced using traditional large-format systems and in-house quality control checks throughout the process will ensure imagery meets specs. Oblique imagery will be captured from our proprietary system that has been certified by the USGS.

Better Images. Better Data. Better Decisions.

EagleView has worked with government customers across North America for two decades and helps assessors and assessment organizations *see more*. EagleView's high-resolution aerial imagery, which meets IAAO standards, helps assessors be accurate and make confident decisions through:

- **Clear and Detailed Aerial Imagery.** Using sophisticated cameras and flying at low altitudes, we capture clear and detailed aerial images that make it easy to see important property features.

EAGLEVIEW'S EXPERIENCE BY THE NUMBERS

Extensive track record delivering aerial imagery and tools that improve workflows across departments.



1 BILLION
Images in Eagleview's
cloud-based image library



NEARLY 2,000
North American government
customers served, including
1,500 U.S. counties



100+ AIRCRAFT
Outfitted with proprietary,
high-resolution camera
systems



94% PERCENT
coverage of the U.S.
population



300+ PATENTS
domestic and international
patents granted

www.eagleview.com

- **Oblique Images.** See properties from all four cardinal directions—north, south, east and west—and gain a complete aerial perspective.
- **Accurate Property Data.** Our property data is generated from precise geographic information, so you can be confident in your data and measurements.
- **Easy-to-Use Software.** With built-in-tools to measure distance, height and area, our software makes it easy to analyze properties using a computer.
- **CAMA System Integrations.** Our aerial imagery integrates with CAMA systems providing the convenience of working in one system

Learn more about how our solutions support assessment agencies at:

<https://www.eagleview.com/casestudies/government/>.

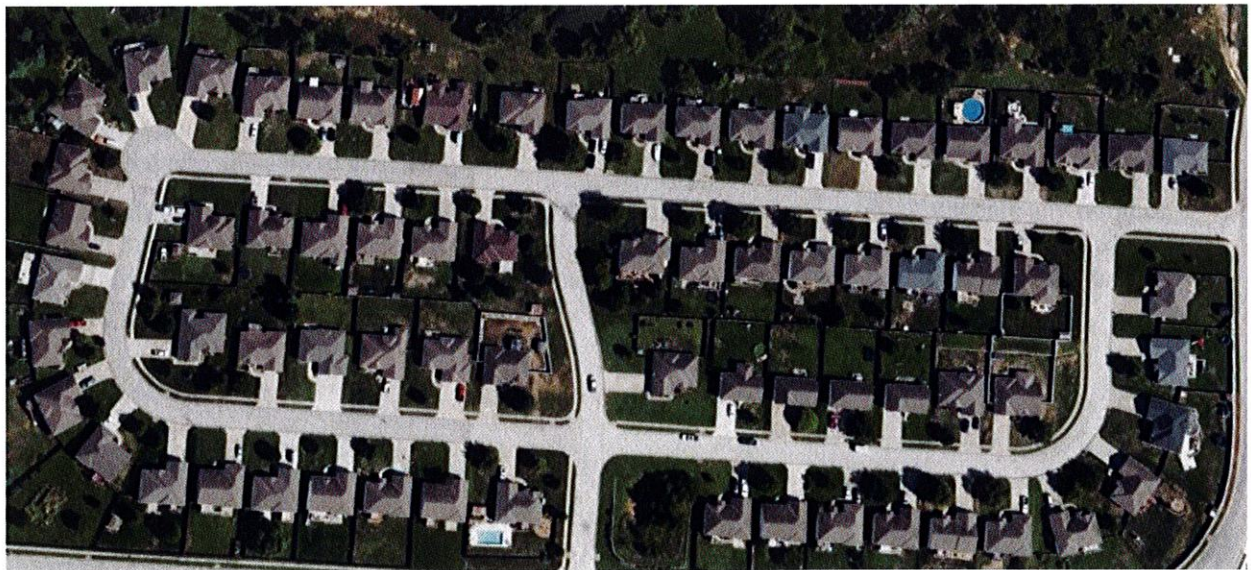
Your Solution

In response to this RFB, EagleView has built a custom solution designed to support Johnson County in the acquisition of aerial imagery. Our aim is to offer 3' and 1" GSD imagery, captured in the winter. Deliverables will include:

3"/1" GSD Ortho Imagery

To support government agencies when they need imagery for more than visualization, EagleView offers an Orthomosaic to support a wide range of government functions.

EagleView has developed and utilizes an innovative workflow encapsulating flight planning, capture, and produce high-resolution mosaics. This allows users to extract high accuracy measurements that can service as the foundation of various GIS and other applications, including 3-D modeling and change detection.



Confidence in detailed imagery. GIS and Planning professionals have increased confidence when making decisions and extracting planimetric features.

3"/1" GSD Oblique Aerial Imagery

EagleView oblique aerial imagery is captured at an approximate 45° angle and shows properties from all four cardinal directions – north, south, east and west. This enables visibility to the sides of homes and buildings, giving assessors a comprehensive view to conduct property analysis. This functionality allows

assessors to determine home and building heights and see additional property features that are not visible with top-down, orthogonal imagery.

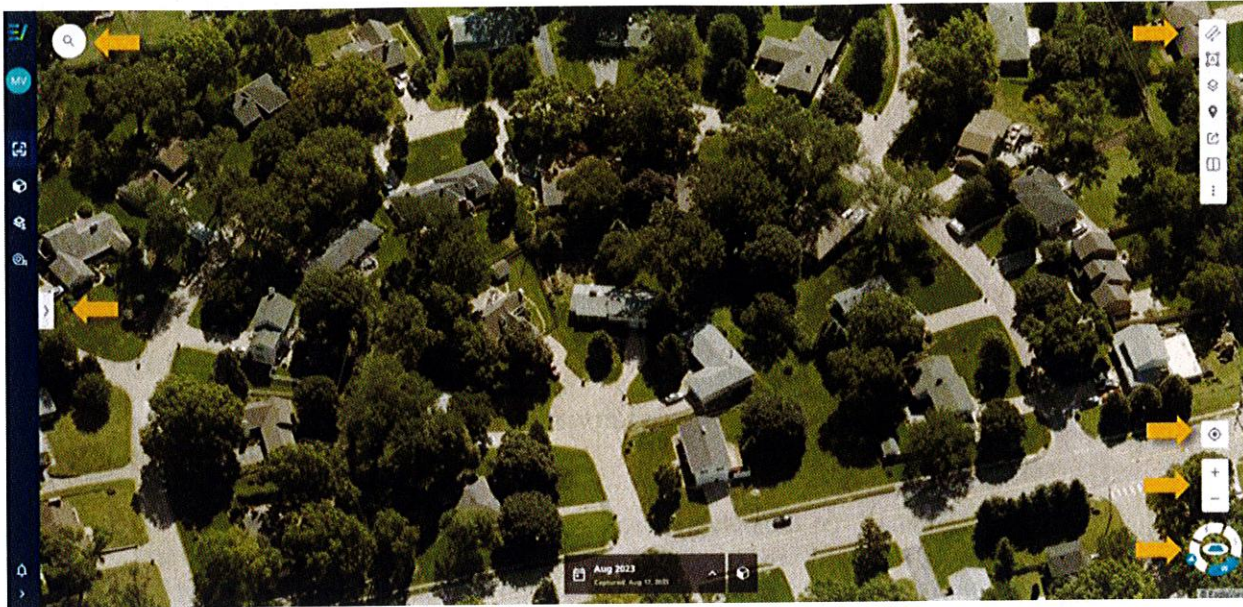


Oblique imagery helps assessors conduct desktop appraisals and reduce the need for field visits and onsite inspections.

EagleView Cloud

EagleView Cloud Explorer provides easy access to EagleView imagery in an intuitive, easy-to-use web interface that allows users to efficiently view and analyze imagery.

Toolbar buttons provide fast access to application features and users can quickly locate any point of interest by panning, zooming, or with a quick search. A single click on the compass switches users to a view from an entirely different direction. Once users find their target location, they can measure, annotate, analyze and export imagery and data as a file.



Supporting the entire organization. *EagleView Cloud Explorer has an extensive list of built-in features, allowing users from varying departments with different responsibilities access to the information and imagery they need.*

EagleView Cloud Explorer includes a wide range of features for the County users, including:

View Aerial Imagery

- View overhead ortho and side-facing oblique images from a desired location.
- Access available historical imagery by selecting any previous flights on our timeline.
- Pan the current image to view the surrounding area or view a location from different directions with a single click. View more images captured from the same direction within our expansive thumbnail gallery.
- Zoom in or out to show a world view, a particular country, city, community, or neighborhood. Oblique images show neighborhoods and communities in great detail.
- Display images in two panes simultaneously (Dual Pane mode) and choose when to synchronize images in the two panes.
- Review Early Access imagery only a few days after image capture.

Search for Images and GIS Data

- Search unique criteria like address, landmark name, city, or country or search by geographic coordinates (latitude, longitude).
- Search for text and data within GIS layers.

Analyze Images with Measurement Tools

- Measure distance, height, area, elevation, slope, bearing and more.
- Save and edit measurements (for example: move points, add points, move an entire measurement, or change units of measure).

Annotate Images

- Annotate images with text, lines, circles, polygons, or markers (icons).
- Select annotation properties before or after creation.

Overlay GIS Layers

- Overlay images with available GIS data, including layers published through Esri REST map and feature services.
- Turn layers on or off (including contour lines and street names).
- Group, reorder, and rename layers in the list for easier access.
- Customize the density and colors of elevation contour lines.
- Perform a spatial search using the identify tool to highlight areas of important GIS data

Export Images

- Export the image shown in the image pane as a PDF or as a graphics file (in JPEG, PNG formats).

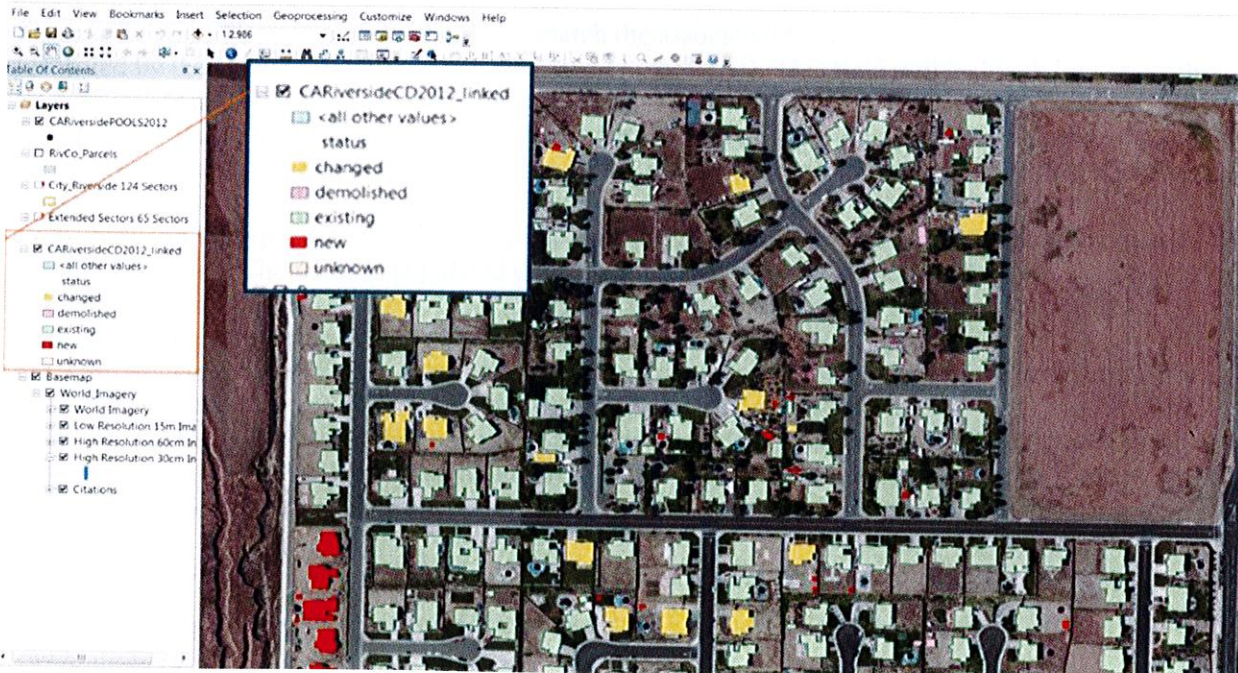
Set User Preferences

- Set application preferences on a per-user basis.

ChangeFinder

EagleView's ChangeFinder solution consists of a change-detection service coupled with the intuitive change-detection software solution, CONNECTAssessment. These solutions allow users to compare structure and property changes from two different sets of imagery. With these tools, GIS professionals, real property tax agencies, planning departments, and economic development users can reduce field visits with desktop analysis, saving time, travel expenses, and labor costs.

ChangeFinder detects additions to existing structures, demolitions, new construction, or other changes to property features. The process involves comparing existing building outline data with latest imagery to detect changes. A "candidate file" in file geodatabase format or shapefile, consisting of GIS polygon building outlines, is provided where possible changes, new buildings, and demolitions are categorized and associated with Tax Parcel IDs. T



Analyzing Changes. ChangeFinder identifies properties that need to be verified and analyzed. These properties are highlighted and classified as either New, Changed, Possibly Changed, Existing, Demolished, or Unknown. Above, ChangeFinder data and ortho imagery have been imported into ArcMap and layered on top of an ortho sector map.

ChangeFinder Deliverables

The County will receive the following with their ChangeFinder delivery:

- A “candidate” file provided in geodatabase and polygon shapefile formats containing the updated building outline shapes with attributes as a polygon feature class.
- A Length of Building Sides shapefile containing the lengths of each building side as a polyline feature class.
- An Excel spreadsheet listing each building’s outline shape and the Change Detection results.
- Locations of swimming pools, categorized as "in-ground," "above-ground," or "undetermined." EagleView delivers digital point locations of visible pools and their attributes in shapefile and geodatabase formats.

Note: The coordinate system of these shapefiles matches that of the customer-provided Parcel File.

The associated attribute table for the Change Detection building outline polygon shapefiles will include, at a minimum, the following fields:

Status: Field Type – String; One of the following values will be listed:

- **Existing:** This is an unchanged building.
- **New:** This is a building that has recently been built (appears in latest imagery, but not in the older).
- **Changed:** This is a building that has some addition or modification to its shape based on existing outlines or between imagery.
- **Demolished:** This is a building that has been razed.
- **Unknown:** The condition of the building cannot be determined due to trees, shadows, or image quality.

Parcel File Key: The name of this field will match the associated field in the client’s parcel file (as identified by the client) and will contain the associate record ID. This field will be blank for clients that do not provide an electronic parcel file for processing.

X, Y (two separate fields): Field type – Double. Identifies the geographic center of the outline polygon

Area: Field Type – Double. The area enclosed by the outline polygon in the unit of the map coordinate system.

Prev_Area: Field Type – Double. The area enclosed by the original polygon in the unit of the map coordinate system. The value is populated only when the status of the outline is changed.

Pct_Change: Field Type – Double. Percent Change in area = (Area minus Prev_Area) divided by Prev_Area. The value is populated only when the Status of the outline is changed.

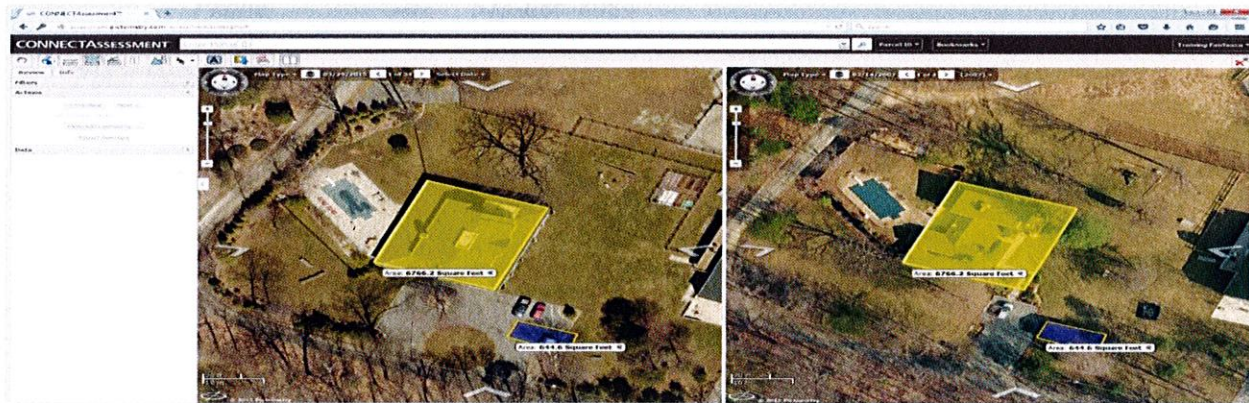
Pct_Obscur: Field Type–String. Provides a subjective range for the percentage of the structure that was obscured by shadow or tree cover in the orthogonal frame used for processing.

Redrawn: Field Type – String. For projects that do not include the purchase of a building outline set, this field is populated with a value of true in the cases where the structure has been tagged as Existing and the provided outline for the project has been modified (to improve accuracy) beyond a predetermined threshold.

Comment: Field Type – String. This field is blank and is left for the client to populate as needed.

CONNECTAssessment™ – A Cloud-Based Solution Engineered to Find Changes

As part of its Change Detection offering, EagleView offers its cloud-based software package, CONNECTAssessment. A web-based solution, CONNECTAssessment allows users to view, search, and filter change candidates resulting from the change detection process (displayed side-by-side) on new and old imagery. Users can perform these actions without closing windows or changing additional applications. The client can set the parameters for reviewing deliverables prior to starting analysis. The filterable fields by jurisdiction include Change Type (New, Changed, Demolished, etc.), Percentage of Change, and Status of Review (reviewed, reviewed accepted, on-site visit required, etc.). In addition, the Customer Administrator can configure filters using their preferred custom attributes and include that data within CONNECTAssessment.



Side-by-side analysis: Dual-pane screens allow users to see and measure changes between different capture

Key CONNECTAssessment benefits include:

- Web accessibility with all data and imagery centralized and easily accessible
- Side-by-side, dual-screen comparison between different capture years
- Access to historical imagery from prior capture years
- Filtering tool that allows users to find largest changes for the biggest ROI
- Intuitive and useful image analysis tools to measure change candidates from the desktop
- Customizable filtering fields and searches
- Progress dashboard and tracking tools to analyze percentage complete on projects

The CONNECTAssessment workflow allows the user to quickly step from one change candidate to the next based on some or all the criteria populated in the filterable fields. As the end user marks a status for each change candidate, the assigned status is stored by CONNECTAssessment for later review and analysis.

Change Report References

Since 2001, EagleView has served more than 2,000 clients across North America. We have provided imagery capture and worked closely with customers across Missouri on projects of similar scope as requested in this RFP.

In response to the County's RFP, EagleView has provided three change report references with projects of similar scope and complexity, who can speak to our quality of work and reliability as a partner.

Buchanan, MO – 2022-2024, 39,895 Parcels

Contact	Dean Wilson, Buchanan County Assessor
Phone	816-271-1410
Email	dwilson@co.buchananan.mo.us
Final Number of Buildings	60,557

<i>Existing</i>	56,907 (93.97%)
<i>Changed</i>	1,046 (1.73%)
<i>New</i>	1,512 (2.5%)
<i>Demolished</i>	1,082 (1.79%)
<i>Unknown</i>	10 (0.02%)

Butler, MO – 2021-2024, 28,172 Parcels

<i>Contact</i>	Chris Rickman, Butler County Assessor
<i>Phone</i>	573-686-8084
<i>Email</i>	crickman@butlercountymo.com
<i>Final Number of Buildings</i>	44,750
<i>Existing</i>	39,232 (87.67%)
<i>Changed</i>	1,052 (2.35%)
<i>New</i>	2,425 (5.4%)
<i>Demolished</i>	2,039 (4.56%)
<i>Unknown</i>	2 (0%)

Cass, MO – 2020-2023, 50,899 Parcels

<i>Contact</i>	Roger Raffety, Cass County Assessor
<i>Phone</i>	816-380-8400
<i>Email</i>	rogerr@casscounty.com
<i>Final Number of Buildings</i>	78,130
<i>Existing</i>	68,398 (87.54%)
<i>Changed</i>	1,661 (2.13%)
<i>New</i>	5,947 (7.61%)
<i>Demolished</i>	2,115 (2.71%)
<i>Unknown</i>	9 (0.01%)

Additional Information

Imagery Specifications

EagleView will deploy its state-of-the-art, custom camera system to collect high-quality ortho and oblique imagery simultaneously at up to 1" GSD resolution.

Product: Ortho and Oblique Specification

<i>1" Ortho Frame Imagery</i>	Nominal .9" GSD Ortho Imagery Orthomosaic Resolution: .9" (Best Available Provided)
<i>3" Ortho Frame Delivery</i>	Nominal 3" GSD ortho imagery, Imagery as good as 1.2" and no worse than 3" Orthomosaic Resolution: 3" GSD (Best Available Provided)
<i>1" Oblique Imagery</i>	Nominal 1.2" GSD oblique imagery
<i>3" Oblique Imagery</i>	Nominal 2.6" GSD oblique imagery ranging from 1.7" to 3.5" GSD oblique imagery. Where available fully automated photogrammetric mosaiced imagery. Imagery may contain seamlines.
<i>Orthomosaic Content Specifications (AOI)</i>	• Typical Positional Horizontal Accuracy: 1m at a 95% confidence level • Fully automated photogrammetric orthomosaic. Imagery may contain seamlines • Project-wide color and contrast balancing
<i>Metadata and Reporting</i>	Metadata: • Metadata generated that meets FGDC Standards, upon request • Shapefile(s) with discrete deliverable boundaries and directional metadata
<i>Orthomosaic Deliverable Format (Online)</i>	Access Methods: • Available via web-based viewer (Cloud Explorer) • Also available via WMS/WMTS (Image Service)
<i>Orthomosaic Deliverable Format (Physical)</i>	Projection/Coordinate System: Customer Selectable Datum: Customer Selectable File Format: • Mosaic Tiles ○ Available in JPEG, GeoTiff, JPEG2000, PNG, ECW, MrSID (All Versions) with world file

- Includes separate Pictometry Map Image (PMI) trailer file
- Project-Wide Mosaic
 - Available in ECW, MrSID (All versions) format

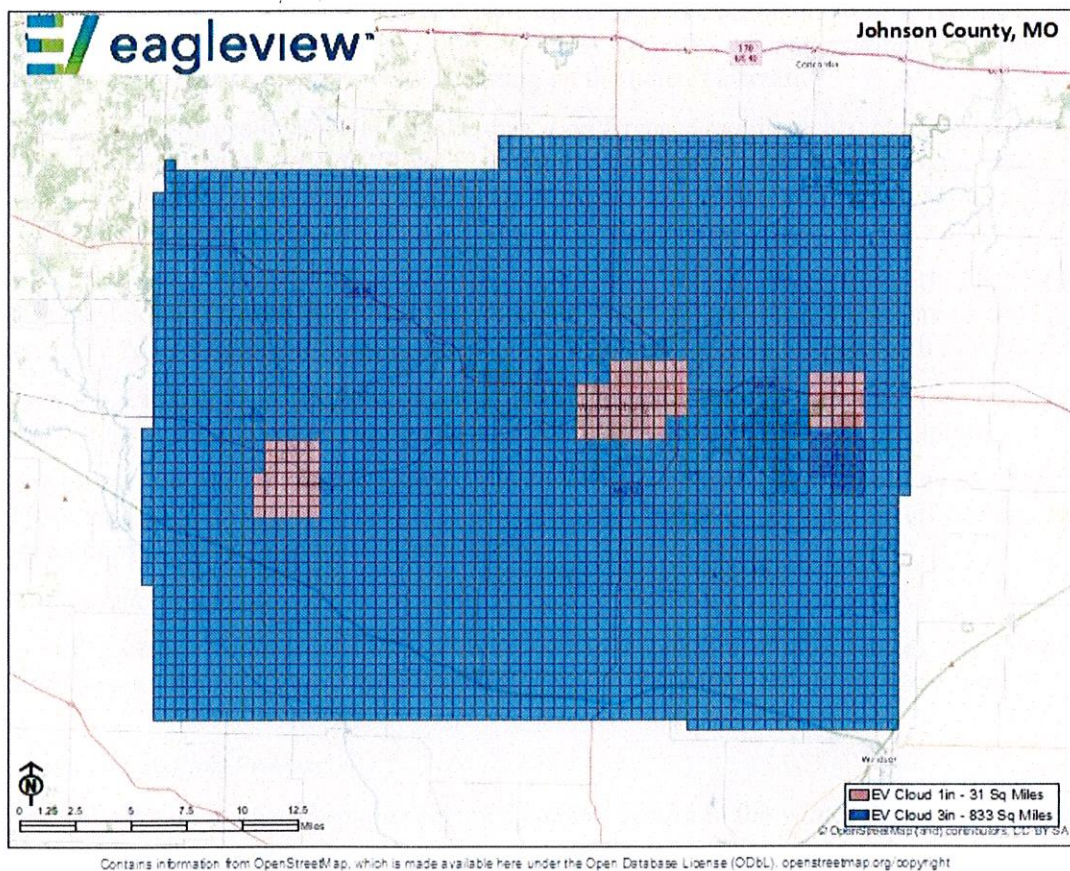
*Oblique Imagery
Deliverable Format*

Access method: Available via web-based viewer (Cloud Explorer)

Delivery Timeline

Best efforts to make ortho imagery available online and/or ready for physical delivery within 30 days of capture completion

Image Processing and Acquisition



For the initial flight, EagleView will develop a custom flight plan that covers the project area at the requested imagery resolution, and the plan will include the following:

- Covers the area of interest (AOI) at the requested imagery resolution (GSD)

- Follows airspace rules
- Ensures safety

Flight plans consist of several flight lines, which tell pilots where to navigate, and each flight line contains waypoints that indicate when specific cameras will fire. Key components of the flight planning process include:

The Customer: The flight planning process begins with the County and EagleView's District Manager and Project Manager, who will work together to develop a map based on your AOI that the County provided in the RFQ process.

Airspace: A finalized map goes to Flight Planning, where the team reviews airspace classifications and possible restrictions in your AOI.

Elevation Data: Flight Planning reviews elevation data from the USGS National Elevation Dataset to generate an elevation grid and determine appropriate flight altitudes for the project. (If provided, custom elevation will be applied to images during processing).

Safety: Using elevation data, the Flight Planning team also determines whether the AOI is safe to fly. At all times, pilots must stay at least 2 miles from forward obstacles (i.e. mountains) and 0.5 miles from lateral obstacles. Aircraft must be at least 1,000 feet above ground level, and maximum altitudes must be at 12,500 and 16,000 feet above sea level, depending on the type of aircraft.

Tiering: Flight Planning groups sectors together based on airspace requirements, elevation data, and aircraft and camera system to be used. Flight Planning then generates flight lines in each of these tiers. Based on the tiers and flight parameters, Flight Planning uses EagleView software to assign a shot pattern that tells the cameras when to fire.

Special Considerations: Because the County plans to purchase oblique imagery as part of the capture the Flight lines may extend beyond the AOI. These "look-in lines" are necessary to capture oblique imagery across the entire AOI. Additional flight lines may be flown between tiers to capture all oblique views.

Communication: Pilots load flight plans onto the aircraft computer prior to capture. Pilots or Flight Operations use these flight plans to coordinate with Air Traffic Control each day of capture.

EagleView follows industry-standard quality control and imagery acquisition procedures. Our internal teams ensure the final deliverables meet the County accuracy and other required specifications. The following sections explain our processes in detail.

Step 1: Mission Planning

To ensure full coverage of the project area at the requested imagery resolution, EagleView's Project Manager will work with the County to develop a flight plan that complies with airspace rules; and ensures safety.

Step 2: Image Acquisition Process

EagleView will capture imagery using its patented camera system in the winter during leaf-off conditions when sun angle is 30° or greater.

Cameras

Aircraft will be equipped with our state-of-the-art proprietary patented camera system. It also includes an Applanix Position and Orientation System (POS) with a Global Positioning System (GPS) antenna and an Inertial Measurement Unit (IMU).

Camera Calibration

Cameras undergo a rigorous calibration process, developed by EagleView and licensed to the USGS, prior to image collection and as part of the manufacture. The calibration is performed through the capture

of a series of images from prescribed locations and at varied orientations of a stationary target cage. Targets are identified in the images collected via a semi-automatic process, and a free-network bundle adjustment is performed to solve for camera interior orientation, including precise focal length, principal point location, and radial distortion coefficients. These parameters are then incorporated into the camera model used during subsequent image processing operations. EagleView also puts each camera through its color calibration process to ensure consistent representation of ground features.

In advance of capturing data, EagleView performs an additional aerial boresight calibration on each of the systems involved in a project. An adjustment is computed to solve for the alignment between the optical axis of the camera and the internal coordinate axes of the Inertial Measurement Unit (IMU). This adjustment is then applied to the imagery captured throughout each project. Each system completes a boresight flight at regular intervals to ensure sensors have stayed in alignment.

Capture Parameters

Throughout each capture mission, GPS/IMU data will be logged on the aircraft. The GPS data will be recorded at a minimum rate of 2Hz, and the IMU data will be logged at a minimum rate of 200Hz. Concurrently, multiple GPS reference stations will be logging data on the ground. These reference stations are typically part of the CAN-NET network. EagleView may set up and run a base station, as needed. The imagery will be nominally captured with a PDOP value of less than 8.0 and within 60 kilometers of an operating GPS reference station. EagleView limits its sensor to 6° of pitch and yaw. This limit can be used due to the narrow field of view of EagleView's cameras which, by design, limit the off-nadir distance of features at the edge of the frame.

Imagery will be captured at 24 bits per band with a planned forward overlap of 60% and a sidelap of 30%. Image collection will extend beyond the project area boundaries to produce full ortho imagery coverage. All ortho Images may provide an accurate top-down view that is rectified to align to a map grid and can be integrated into a GIS database. EagleView's systems use onboard IMU to control crab. These systems report errors above 15°. All errors are reviewed, and images may be rejected per scope of work and quality thresholds. Any areas that need to be addressed will be identified during our extensive coverage verification review. Areas will be re-flown accordingly.

Touch-up Flight

There are several levels of checks and balances at EagleView where the imagery is checked for anomalies and accepted or rejected for re-fly. The Geomatics team are the first level, scrutinizing the imagery immediately upon receipt from the pilot. While the planes are still in the area, they ascertain whether any re-flies are necessary and, if so, the re-flies are expedited back to EagleView's flight planning team for dispatch to the pilots. Initial imagery can be shared with the client to gain their acceptance of the quality and accuracy.

Sun Angle

EagleView may capture images when there are clouds above the altitude of the aircraft. In fact, the best lighting for the EagleView images is when there is a light, high cloud cover, as this provides the most consistent Lambertian lighting coverage. The preferred capture windows are when the leaf canopies are off, and the ground is not obscured by snow or ice.

Step 3: Post-Processing of Imagery

EagleView's Geomatics team will post-process the imagery, turning the raw data into georeferenced imagery and ensuring image quality.

Step 1: Upon receipt, the Geomatics team will copy data from the hard drive to the server, which will automatically back up the data. Once copy is complete, EagleView's software will develop the raw images, applying color, contrast, and sharpness to each image frame.

Step 2: Using Applanix POSpac software, the Geomatics team will refine positional data by combining Inertial Measurement Unit (IMU) data with the GPS receiver's raw observables. These include pseudorange and phase, which provide the distance between the satellite and the receiver. This process will produce the Smoothed Best Estimate of Trajectory (SBET) for the flight. POSpac software, the Geomatics team will refine positional data by combining Inertial Measurement Unit (IMU) data with the GPS receiver's raw observables. These include pseudorange and phase, which provide the distance between the satellite and the receiver. This process will produce the Smoothed Best Estimate of Trajectory (SBET) for the flight.

Step 3: The Geomatics team will use EagleView's proprietary software to apply the trajectory data (SBET) to the imagery based on the individual time stamps associated with each image frame. Once this process is complete, images will be georeferenced (or tied to specific geographic coordinates). The location (X, Y, Z) and orientation (Roll, Pitch, Yaw) values derived from the SBET and assigned to each frame will serve as the initial exterior orientation (EO) values for the aerial triangulation phase of processing, if applicable to the project.



EagleView's Geomatics team will post-process imagery, turning the raw data into georeferenced imagery. With georeferenced imagery, users will have the power to perform measurements on imagery and view the location of individual pixels.

Step 4: The Geomatics team will review the quality of the images and inspect for potential issues related to color, camera defects, environmental conditions, capture platform anomalies, cloud cover, shadows, glare, and motion blur. If images do not meet quality standards, the team will mark imagery for recapture. EagleView reviews imagery while aircraft are still in the project area for efficient deployment should a re-fly be necessary.

Step 5: The Geomatics team will perform a verification process to determine image-to-image and camera-to-camera accuracy. Using EagleView's proprietary software, the team will compare common points in different images. The team will check calculated coordinates for a point in one image against the coordinates for the same point in other images that cover the same location. We will investigate inconsistencies. Imagery will be reprocessed if the team identifies points that do not meet EagleView's quality standards.

Step 6: We will orthorectify orthophotos to remove horizontal displacement caused by terrain height variation, earth curvature, and camera-based distortions. The Geomatics team will incorporate the best available digital elevation model (DEM), geo-referenced exterior orientation values, and calibrated camera model parameters into imagery during orthorectification. Images will be rotated to point true north. The Geomatics team will use EagleView's proprietary software to ensure image pixels are the same dimension. Once orthorectified, images will have a consistent scale, allowing for accurate measurements of distance and direction.

Preparing Initial Visualization-Grade

We will produce initial deliverables once all imagery from the area of interest has been post-processed and orthorectified. We use our proprietary software to mosaic ortho imagery and produce ortho sector tiles. Prior to production of area-wide mosaics, the Geomatics team will review tiles to verify proper coverage and identify any image issues.

We will copy all ortho data to a hard drive. A member of the Quality Control team will review all deliverables. We then upload final imagery to Cloud and the Customer Technical Support team ships a hard drive of imagery to you.

Quality Assurance

EagleView has relied on strict quality and project management controls to ensure projects meet customer specifications and are delivered on time and within budget. With these controls in place, we continue to grow our business and secure repeat customers. Our imagery library has grown from 229 million images in 2013 to more than 1 billion images today. We have served 2,000 government customers.

Quality Control

Key quality assurance steps include, but are not limited to, the following:

Quality Checkpoint	Description
<i>System Calibration</i>	Sensors are calibrated for lens distortion, system geometry, color response, and accurate bore sighting.
<i>Flight Altitude</i>	With a digital elevation model, flight plans are tiered at different altitudes to allow for complete image overlaps and consistent resolution and ensure safety.
<i>Image Acquisition</i>	The flight management system performs several real-time quality checks during capture operations. The system immediately flags images captured when the aircraft experiences excessive roll, pitch, or yaw, and immediately recaptures frames with significant glare from solar reflection.
<i>Receiving</i>	Upon receipt of captured imagery, Geomatics inspects images algorithmically and physically for color, camera defects, environmental conditions, capture platform anomalies, cloud cover, shadows, glint, and motion blur. If images do not meet quality standards, the team marks imagery for recapture.
<i>Re-fly</i>	EagleView ships drives containing imagery and data to its processing facility while aircraft are still in the area. If a re-fly is needed, EagleView can dispatch pilots quickly.
<i>GPS Post-Processing</i>	Differential GPS and IMU post-processing are handled using Applanix POSPac suite of software. The resulting solution is held to strict accuracy standards.
<i>Digital Elevation Model</i>	EagleView compiles elevation data from multiple sources, including customer-provided data, EagleView LiDAR data, and best available public domain data. EagleView reviews the quality of the elevation data before orthorectification. When areas of poor quality or change are identified, EagleView derives data using internal methods to update and yield a more accurate elevation model.
<i>Metadata</i>	Each set of orthophoto deliverables includes XML metadata containing information about the processing, quality, and accuracy. The finalized metadata files are validated for compliance with the Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM), Version. 2 (FGDC-STD-001-1998).

Deliverables

EagleView performs a final QA/QC check on deliverables to ensure they meet the customer's desired specifications.

Integration Capabilities

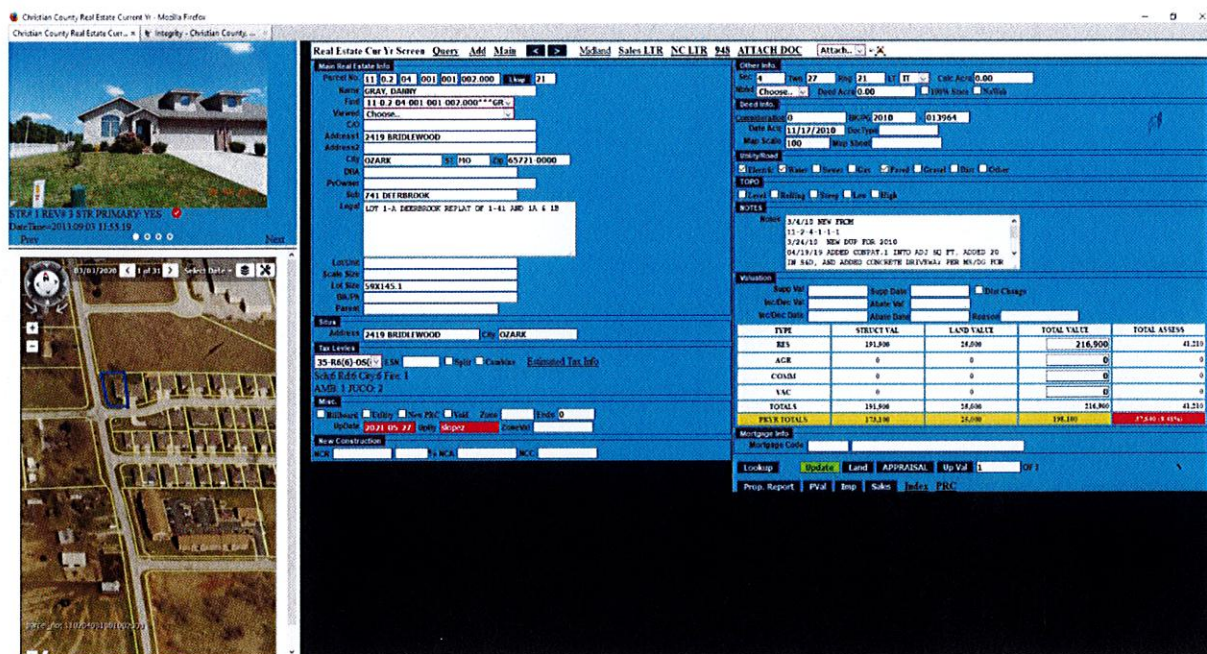
EagleView has established integrations with major CAD, most major CAMA vendors, and is a Gold Partner of good standing in the Esri Partner Network. EagleView's Cloud platform keeps pace with ESRI's developments, while offering backward compatibility to older applications, data bases, and operating systems. This is critical to ensure that you can quickly and easily access your imagery in a manner that fits your workflow. Further, our platform provides the public unlimited visualization-only access to EagleView-hosted custom imagery libraries via a web application or server-based integration, such as the Integrated Pictometry Application (IPA).

The IPA is a robust integration that allows customers and partners to embed an imagery viewer with EagleView oblique and ortho imagery and tools into their existing public-facing and internal web applications. CONNECT IPA has been integrated into hundreds of CAMA, GIS, and E-911 services across the United States and Canada.

In addition, our platform offers robust integration capabilities and offers standard APIs that can be leveraged integrate with County- desired current and future software applications.

Ulrich Integration

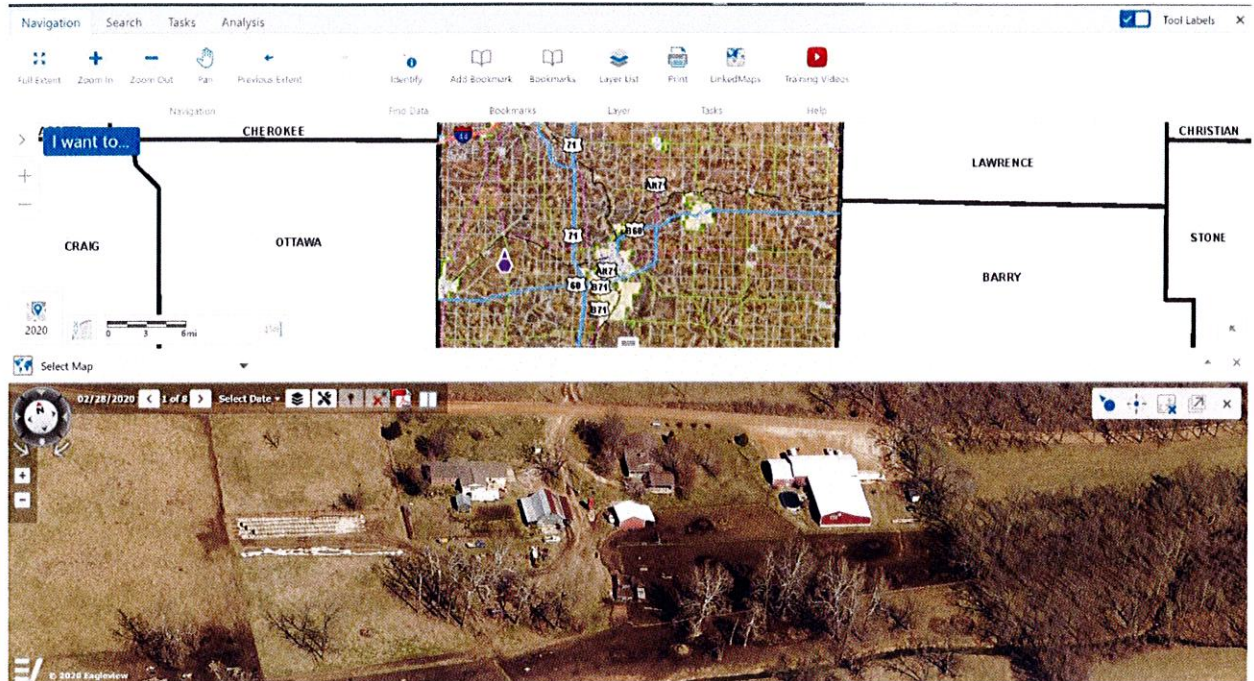
EagleView has an existing oblique integration with Ulrich CAMA software, **uniquely** positioning EagleView to provide an integrated workflow for County users.



Ulrich CAMA. EagleView has the **ONLY** oblique integration with Ulrich CAMA software. Allowing County users a streamlined workflow.

SAM LLC Integration

EagleView has an existing Integration with SAM LLC GIS software, streamlining GIS workflows and providing high resolution imagery to support a full range of GIS functions.



SAM LLC. EagleView has an existing integration with SAM LLC to support GIS teams.

Bid Response

Request for Bid Title/Name: **Aerial Photography and Change Detection Services**
PLEASE MARK YOUR ENVELOPE "SEALED BID – IMAGERY"
RETURN ONE (1) ORIGINAL & TWO (2) HARD COPIES.

Bid Submission

Location / Mail Address: Johnson County – County Clerk
Attn: Diane Thompson, County Clerk
300 North Holden Street, Suite 201
Warrensburg, Missouri 64093
Phone: (660) 747-6161

Bid Opening

Location / Address: Johnson County Courthouse - Commission Chambers
300 N. Holden Street
Warrensburg, Missouri 64093

The undersigned certifies their authority to bind this vendor in an agreement to supply the products, or services, in accordance with all terms, conditions, and pricing specified herein.

Bidder is REQUIRED to complete, sign and return this form with their submittal to our solicitation as well as **initial all pages**. By initialing each page, you are acknowledging having thoroughly read and agreeing to each item on the page, any page not initialed will be considered non-responsive and may be disqualified. *An authorized signature and email address, printed clearly is mandatory, lack thereof may result in a determination of "Non-Responsive" and disqualify from participation.

Pictomertry International Corp. dba EagleView

Robert Locke

Company Name

Authorized Person (Print)

25 Methodist Hill Drive

Robert Locke mv

Address

*Signature

Rochester / Monroe / NY / 14623

President

City / County / State / Zip

Title

(585) 486-0093

(585) 486-0098

10/1/2024

16-1595473

Telephone #

Fax #

Date

Federal Tax ID #

bob.locke@eagleview.com

Corporation

*E-mail (MUST be legible.)

Entity Type (Corporation, LLC, Sole Proprietor, Partnership)

INTRODUCTION & BASIC PROCESSING INFORMATION:

All formal invitations for bid are handled by the Johnson County Clerk.

Sealed bids cannot be emailed and must either be delivered by hand, courier, or U.S.P.S.

Read ALL solicitation documents closely. Note any/all special dates and submit your response as soon as possible. See Item 1.15 for the process to submit questions.

1. INSTRUCTIONS AND GENERAL CONDITIONS

- 1.1. Sealed & Marked: Responses must be submitted in a sealed envelope or box with the outside marked as indicated on page 2. List the bid name on the outside surface of the box or envelope and note "Response to Request for Bid enclosed" with a return name & address. No fax or electronic transmitted responses will be accepted.
- 1.2. Submittal: Sealed responses may be submitted to the Johnson County Clerk until the bid submission deadline and time indicated herein, subject to Instructions and General Conditions and any special conditions. Sealed Responses must be delivered before "Bid Submission Deadline" as listed on page one, to the Johnson County Clerk as listed on page two. It is the Bidder's responsibility to ensure responses are delivered in a timely fashion to the Clerk's Office. Courier or hand delivery is recommended.
- 1.3. Late Packages: The County will not accept any response received after the bid submission deadline time. Late arrivals are considered "NON-RESPONSIVE" and will not be opened or returned.
- 1.4. Opening: Bids will be opened publicly at "Opening Date/Time" and read aloud. All responses will be considered public information as soon as they are opened and become a part of the public record to be released to any person or firm who formally requests a copy.
- 1.5. Award/Timeline: Recommendation for award will be made formally to the Johnson County Clerk as soon as possible after a complete departmental review. Updates may be sent via email should the award process become delayed, 10 or more days, for any reason.
- 1.6. Withdrawals: Responses may be withdrawn on written request from the Bidder at the address shown prior to the time of acceptance of the response. Once a response is opened, and accepted, it can only be withdrawn by order of the Johnson County Commission.
- 1.7. Bidder Expenses: This County is not responsible for any expenses which Bidders may incur in estimating, inspecting, or preparing information to respond to this solicitation.
- 1.8. Presentations/Inspections: The County reserves the right to conduct personal interviews or require presentations, inspections, of or from any/all Bidders prior to selection. The County will not be liable for ANY costs incurred by the Bidder in connection with such interviews, presentations, or inspections.
- 1.9. Bid Term: All Responses submitted shall be binding and remain firm for ninety (90) calendar days following the opening, unless otherwise indicated. Pricing/Costs submitted with a response must be honored for that set timeframe. Submitted pricing, once opened, cannot be changed for any reason. Any such changes will disqualify that response.
- 1.10. Bid Rejection: The Johnson County Commission reserves the right to reject any or all responses when such rejection is in the best interest of the County.
- 1.11. Multiple Awards: Responses may be awarded to one company or multiple companies, when such award is deemed in the best interest of the County.
- 1.12. Payment Terms: Standard payment terms are *Net 30* after receipt of an invoice. The County cannot, and will not, agree to any other payment terms. Once products, or services, are received and accepted, Johnson County will process payment in full. Invoices need to be issued and mailed to the requesting department - not to the Clerk. Requests for credit applications and deposits are not necessary and will - in most cases - not be processed or accepted.
- 1.13. Alterations: Any alterations, changes, lining out, or margin notes to any items within these instructions may result in the response being disqualified.
- 1.14. Bid Results: Bid results are posted on the County website at: <https://jococourthouse.com/bids.html> Please do not call for results. An email address, not a website, MUST be provided in order to receive award results. Final award results are by email only and will be emailed to all responding Vendors.
- 1.15. Questions: All questions regarding this solicitation must be submitted to Diane Thompson via email by the time indicated on page 1. Any/all solicitation questions that result in modifications will be combined into one written Addendum with answers and explanations to cover any/all new issues.
- 1.16. Addendum: If it becomes necessary to revise any part of this solicitation due to a significant question received which could impact specifications; a written Addendum will be issued to explain any new/necessary modifications. Addenda are valid only if in writing and issued by the Johnson County Clerk's Office. Any necessary Addendum will be emailed as close as possible to the day following the question submission deadline to all parties who had previously been part of the original Direct Bid Invitation email or had made email contact during the open questioning timeframe. Any necessary Addendum will be posted on the Johnson County website with the original solicitation. When an Addendum is necessary, Bidders are required

to formally respond. Follow the instructions as indicated in the Addendum. An indication will be in red and placed at the end of the affected proposal.

- 1.17. Response Content: In order to enable direct comparison of competing responses, Bidders must submit responses in strict conformity to the requirements stated herein. Failure to adhere to all requirements may result in Bidder's Response being disqualified as non-responsive. All responses must be submitted using the forms provided herein. Every question should be answered. If not applicable, the section should contain "N/A."
- 1.18. Award of Contract: Any award agreement shall take effect upon the approval by the Johnson County Commission. Multiple awards may be made on the basis of a primary, secondary, and tertiary vendor. The primary vendor shall furnish the County's requirements until such time as the County determines that it is in the best interest of the County to seek performance from the secondary vendor, then tertiary vendor. The County's decision to utilize the secondary and tertiary sources shall be final and conclusive. In addition, the resulting contract from this solicitation will be considered "Non-Exclusive". The County reserves the right to obtain service, or product(s), from other vendors when it is in the best interest of the County.
- 1.19. Agreement: The selected vendor(s) will be required to enter into a written agreement with the County, in cooperation with the County's Legal Services Department and completed to the mutual satisfaction of the parties, consistent with the RFB and response. The RFB and response documents submitted by the successful Bidder will become a part of any contract award as a result of this solicitation. These signed documents will be binding. Bidder shall initial all pages where the document denotes "Bidder's Initials: ____" at the bottom of the page after completing said page. Any responses not complying with this condition may be considered non-responsive.
- 1.20. Advice of Award: The County's Responses, Bid Tabulations, and Bid Award information may be viewed on our website at <https://jococourthouse.com/bids.html> If a Vendor wants a copy of the bid tabulation they must include a direct email address, not website, in order to receive results.
- 1.21. Response Clarification: The County reserves the right to request additional written or oral information from Bidders in order to obtain clarification of responses.
- 1.22. Rejection or Correction of Responses: Minor irregularities or informalities in any response which are immaterial or inconsequential in nature, neither affected by law nor at substantial variance with bid conditions, may be waived at the County's discretion whenever it is determined to be in the best interest of Johnson County, Missouri.
- 1.23. Evaluation Process: The County's sole purpose in the evaluation process is to determine from among the responses received which one is best suited to meet the County's needs at the lowest possible cost.
- 1.24. Acceptability: The County reserves the sole right to determine whether goods and/or services offered are acceptable for County use.
- 1.25. Sunshine Law: All responses to this request will be considered public information as soon as they are opened and become a part of public record subject to disclosure to any person or firm that requests it. Requests for copies of responses, must be made through the Johnson County Clerk's Office ((660) 747-6161) by submitting a Public Service Request Form (PSR). Charges for time spent as well as a cost per page apply and may be collected prior to the making of copies.

2. SPECIFICATIONS AND BID RESPONSE PRICING

The Johnson County Clerk's Office will accept and the County Commission will review responses to this RFB in an effort select a single contractor to complete ortho and oblique imagery with a change detection reporting program based on the collected imagery which is compatible with Ulrich Software. For questions concerning any listed specifications, contact Diane Thompson, County Clerk, in writing to clerk@jocomo.gov

Background: According to the 2020 census, Johnson County has 826.3 square miles of land with a population of approximately 54,010. The following companies provided Johnson County's aerial imagery:

2015	Surdex Corporation, 520 Spirit of Saint Louis Blvd, Chesterfield, MO 63005
2020	Surdex Corporation, 520 Spirit of Saint Louis Blvd, Chesterfield, MO 63005
2022	Surdex Corporation, 520 Spirit of Saint Louis Blvd, Chesterfield, MO 63005

Please check (✓) off the appropriate box to indicate compliance with the specifications. The County will always look for 100% COMPLIANCE. These "SPECIFICATIONS" and "STANDARD TERMS AND CONDITIONS" are critical to all County solicitations. If after reviewing each of the following items a potential participant is not able to comply with ALL requirements, reconsider whether to submit a bid response to the solicitation. All "D" check (✓) marks will be considered toward disqualification. Check every item. Any blank item in this section will be considered non-responsive and may disqualify.

C = Comply with item. (In some cases, this will serve as a simple acknowledgement.)

D = Do not / cannot comply with item.

C	D
☒	☐

2.1 1" GSD: One-inch (1") Ground sampling distance (GSD) ortho and 3-band natural color 4-directional oblique imagery (40-45 degree angle) in 20 (twenty) specified one square mile sections of Johnson County (see Appendix – yellow highlighted sections); and,

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2.2 3" GSD: Three-inch (3") GSD, ortho and 3-band natural color 4-directional oblique imagery (40-45 degree angle) in the remaining one square mile section of Johnson County. (see Appendix A – all unhighlighted sections)

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- 2.3 Flight Specifications: Imagery shall be captured between the months of November 2024-Janurary 2025. The Contractor shall re-fly, at no additional cost to the County, any unacceptable aerial photography, with the re-flight coverage overlapping the accepted photography.
- a. 0.5' GSD: This means each pixel in the orthophoto represents 0.5 feet on the ground. The smaller the GSD, the higher the resolution, so this is a relatively high-resolution image.
 - b. 30-degree sun angle: This refers to the angle of the sun above the horizon at the time of image capture. A 30-degree sun angle helps reduce shadows that might obscure details in the image, providing better visibility of the ground.
 - c. Cloud and cloud shadow-free: The imagery must be free of clouds and any shadows cast by clouds, ensuring that all ground features are clearly visible.
 - d. ± 1-foot horizontal accuracy: This indicates the positional accuracy of the imagery. The horizontal location of features should be accurate to within 1 foot, which is a high level of precision.
 - e. Clear ground conditions following leaf-off: The imagery should be captured when trees have lost their leaves (leaf-off condition of 30% or less foliage coverage), improving visibility of the ground and structures.
 - f. No snow or flooding: The imagery must be captured under conditions without snow cover or flooding, so the actual surface of the ground can be clearly seen.

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2.4 Imagery Access: Early access delivery will be made available to users as imagery is captured.

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2.5 Mosaic Images: The ortho imagery should also be delivered in a hardcopy countywide mosaic(s). Mosaic(s) will combine all the geographic area's tiled images into a MrSID format. The hard copy orthomosaic will remain in procession of Johnson County if the county decides not to continue annual subscription licensing outside of length terms provided in agreement.

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Surrounding County Images: The selected vendor must be able to provide the surrounding counties (Jackson, Lafayette, Saline, Pettis, Henry, and Cass) oblique imagery, if available, to Johnson County in one software platform.

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2.6 Surrounding County Images: The selected vendor must be able to provide the surrounding counties (Jackson, Lafayette, Saline, Pettis, Henry, and Cass) oblique imagery, if available, to Johnson County in one software platform.

2.7 Change Detecting Product: Vendor must have the ability to provide a change detection product that will show new structures and add-ons to existing structures by comparing the new flight imagery with the current 2023 county imagery and ongoing years as the contract is awarded. Software for identifying said changes must be provided at no additional cost for change detection product.

- ☒ ☐
- 2.8 Web-based Application: The oblique imagery should be delivered as a hosted web-based service by the vendor. This service should be part of a Geographic Information System (GIS) web-based application that enables users to;
- View
 - Measure (length, height, and slope)
 - Determine elevations
 - Annotate images with text, lines, circles, etc.
 - Print and export images
 - The ability to seamlessly pan from one oblique to the next within viewing software.
 - Support overlay of local GIS data layers and the use of web feature services with customizable symbology, geocoding, and mobile device use.
 - Support user roles and group administration.
- ☒ ☐
- 2.9 Third-Party Software/ Application Programming Interface (API) Integration: Vendor must have a proven track record and willingness to integrate oblique imagery via third-party vendor software already being used within county: Ulrich CAMA, Integrity GIS, Survey and Mapping (SAM), ESRI, ONESolution by CentralSquare Technologies.
- ☒ ☐
- 2.10 Users: License to provide imagery and viewing software to all municipalities and county departments and public at no additional charge.
- ☒ ☐
- 2.11 Training: Onsite training will be provided for county and municipality users initially at no additional cost and online training will be available for future employees.
- ☒ ☐
- 2.12 References: List three (3) similar projects completed in Missouri including County Name, # of 1" GSD Sections, # of 3" GSD Sections, and Third-Party Software Used. Also required with bid, an attached a change report page from each reference (1 page only).
1. St. Charles County Government - Travis Welge, Assessor - twelge@sccmo.org
Project Details: 2024 Capture- 645 mi2 1 Inch GSD Third-Party Software Used ESRI/Thomas Reuters CAMA
 2. Jasper County- Lisa Perry, Assessor - lperry@jaspercountymo.gov
PD: 2024 Capture 672 mi2 3 Inch GSD Third-Party Software Used ESRI Tyler Technologies CAMASchneider Geospatial
 3. Christian County-Danny Gray, Assessor- assessor@christiancountymo.gov
Project Details: 2024 Capture 596 mi2 3 Inch GSD Third-Party Software Used ESRI/Ulrich CAMA/SAM LLC
- ☒ ☐
- 2.13 State and Federal Law Compliance: The contractor will be responsible for compliance with any and all Federal and Missouri labor, environmental, and transportation laws, as applicable.
- ☒ ☐
- 2.14 Fees and Permitting: All fees for plans and permitting are the responsibility of the General Contractor.
- ☒ ☐
- 2.15 No Cost Emergency Imagery: No charge for imagery of up to 200 square miles of affected areas from tornados rated Enhanced Fujita Scale EF4 or greater and earthquakes measured at 6.0 on the Richter Scale or higher.
- ☒ ☐
- 2.16 Reduced Cost Emergency Imagery: Discounted rates for areas greater than 200 square miles of disasters listed in 2.15 or disasters rated below the levels listed in 2.15 including flood meeting or exceeding major flood stage, wildfires impacting populations centers, etc.
- a. Describe discount rates: Disaster Coverage Imagery at No Additional Charge – EagleView will, upon request of Customer and at no additional charge, provide standard quality imagery of up to 200 square miles of)
affected areas (as determined by EagleView).
- ☒ ☐
- 2.17 Costs
- a. First Year Flyover (November 2024-January 2025): \$ 150,645.00
 - b. Additional Year Flyover (November 2026-January 2027): \$ 150,645.00
 - c. Additional Cost – Detection Based Changes for 28,690 parcels: \$ 31,845.90

*Annual pricing breakdown attached on following page.

Project 1 (2024)	
Imagery	\$ 150,645.00
ChangeFinder 2023-2024	\$ 20,083.00
Project Total	\$ 170,728.00
Annual Payment (2)	\$ 85,364.00

Project 2 (2026)	
Imagery	\$ 150,645.00
ChangeFinder 2024-2026	\$ 11,762.90
Project Total	\$ 162,407.90
Annual Payment (2)	\$ 81,203.95

3. STANDARD TERMS AND CONDITIONS

C	D	
X	___	3.1 The awarded bidder shall furnish the goods or services described in Section 2. Specifications.
X	___	3.2 All pricing MUST remain in effect, without increase, for at least one year from the date of the effective date of the awarded contract. Do not include Federal Excise Tax or Sales and Use Taxes in Bid process, as the County is exempt.
X	___	3.3 The County will not be required to purchase any/all from a specific vendor, nor be held to any minimums/maximums, even if quantities are listed within the RFB or response.
X	___	3.4 Total bid price MUST include delivery to the address set forth in Section 2. Specifications. Responses shall include all charges for packing, delivery, installation, etc., (unless otherwise specified) to the County Department identified in this Request for Bid.
X	___	3.5 Include an updated W-9 form with company information and signature, with formal, legal, company name.
X	___	3.6 The Johnson County Commission has the right to accept or reject any part or parts of all bids, to waive any informalities or technicalities and to accept the offer the County Commission considers the most advantageous to the County. Johnson County reserves the right to award this bid on an item-by-item basis, or an "all or none" basis, whichever is in the best interest of the County.
X	___	3.7 Bidders must use the bid forms provided, must return the completed bid and bid sheets, provide the unit price, quantity and extended totals, and sign the bid.
X	___	3.8 When products or materials of any particular manufacturer are mentioned in specifications, such products or materials are intended to be descriptive of type or quality and not restricted to those mentioned.
X	___	3.9 The delivery date shall be identified by specific date, unless otherwise indicated.
X	___	3.10 The County Commission reserves the right to cancel all or any part of an order if delivery is not made or work is not started or completed as guaranteed. In case of delay, the Contractor must notify the County Clerk's Office.
X	___	3.11 The County may utilize state or federal grant funds in the procurement of goods and services which may require a provider of goods or services to comply with certain state or federal laws, rules and regulations applicable to the funds and may require inclusion and compliance with certain contract clauses required by the state or federal government to an agreement with the County. Any questions regarding the applicability of state or federal requirements should be directed to the County Clerk's Office.
X	___	3.12 In the event of a discrepancy between a unit price and an extended line-item price, the unit price shall govern.
X	___	3.13 Should an audit of invoices during the term of the Agreement, and any renewals thereof, indicate that the County has remitted payment on invoices that constitute an over-charge to the County above the contract terms, the Contractor shall issue a refund check to the County for any over-charges within 30 days of notification.
X	___	3.14 Cooperative Procurement: The vendor should indicate by checking "Yes" or "No" if the vendor will honor the submitted prices and terms for purchase by other entities that participate in cooperative purchasing with Johnson County, Missouri. Yes ☒ No ☐
X	___	3.15 Bidders must procure and maintain, at a minimum, the following policies of insurance against all claims for injuries against persons or damage to property which may arise from or in connection with the performance of the subject matter of the request for bid: (1) workers' compensation insurance for all employees as required by state law; (2) comprehensive general liability insurance in an amount not less than \$500,000 per occurrence and \$3,000,000 in aggregate, covering both bodily injury and property damage, including accidental death; (3) automobile liability insurance during the term of the Agreement not less than \$500,000 per occurrence and \$3,000,000 in aggregate, covering both bodily injury, including accidental death, and property damage to protect themselves from any and all claims; and (4) insurance for loss of materials, supplies, tools and equipment during the term of the Agreement in an amount which will adequately cover the potential loss or damage to such items. The bidder shall furnish the County with Certificates of Insurance establishing the insurance requirements as set forth in this section. Each policy of insurance must contain a thirty (30) day mandatory cancellation notice.

4. FINAL COMPLIANCE CHECKLIST

By using the below table as a checklist you will help to ensure that your proposal is fully compliant before you seal it for submission. Your full proposal response needs to comply with **all** of the below listed requirements or it may **not** be included for consideration. **Use a checkmark (✓) next to each item to avoid leaving out required information or missing an instruction which could cause your response to be disqualified.** Please email or call Diane Thompson (clerk@jocomo.gov | 660-747-6161) with any questions pertaining to these requirements or any other written instructions.

(✓) = Acknowledge intent to comply with or to have included the following items:

Item #	FINAL COMPLIANCE CHECKLIST	(✓)
4.1	The County will not accept any late proposals. Late packages will not be opened or returned.	✓
4.2	No fax or electronic transmitted proposals will be accepted.	✓
4.3	Remember to sign the mandatory proposal sheet. Missing signatures WILL disqualify.	✓
4.4	Illegible responses, including an unreadable email address, WILL disqualify.	✓
4.5	ALL pages of the bid document must be initialed by hand, not typed, on the bottom of each page.	✓
ITEMS TO BE INCLUDED IN BID SUBMITTAL PACKET		
4.6	Original bid response including issued addendum. Please indicate original.	✓
4.7	2 Copies of bid response including issued addendum (one sided copies only). Please indicate copy.	✓
4.8	W-9 Form: Include a current/signed W-9 form with your company's formal information.	✓

Following the Commissions award of the bid, and before an agreement is signed between the parties, copies of the Certificates of Insurances will be required.

AGREEMENT FOR AERIAL PHOTOGRAPHY AND CHANGE DETECTION SERVICES

THIS AGREEMENT dated the _____ day of _____ 202__ is made between Johnson County, Missouri, a political subdivision of the State of Missouri, (-hereinafter "County") and Pictometry International Corp. dba EagleView of _____ (-hereinafter "Contractor").

NOW, THEREFORE IN CONSIDERATION of the mutual considerations and obligations of the parties contained herein, the parties agree as follows:

1. **Contract Documents.** The contract documents to this Agreement for the purchase of Aerial Photography and Change Detection Services ("Services") shall include the Contractor's bid response to County's Request For Bids: Aerial Photography and Change Detection Services and any applicable addenda which are attached hereto and incorporated herein by reference. Service or product data, specifications and literature submitted may be permanently maintained in the County Purchasing Office. In the event of a conflict between any of the foregoing Contract Documents, and this Agreement, the terms and conditions of this Agreement shall prevail and control.
2. **Contract Price.** Services provided under this Agreement shall not exceed the price as quoted in the attached bid response. In the event of renewal of this Agreement, the parties agree that the Price for subsequent fiscal years shall be governed by the RFB.
3. **Contract Duration.** This agreement shall commence on the date it is fully executed and extend for a period of one (1) year thereafter, subject to the provisions for termination specified below. This agreement may be renewed biannually for a second flyover in November, 2026-January, 2027 on the same terms and conditions as set forth in the Contract Documents and this Agreement, by providing notice of the intent to renew to Contractor no later than September 1, 2026, subject to the pricing clauses as agreed to, and offered by the Contractor's bid response.
4. **Billing and Payment.** All billing shall be invoiced with specific department information and include reference **RFB Assessor Imagery** for tracking. Billings and invoices may only include the prices provided for via this Agreement. No additional fees or extra services not included, or taxes, shall be included as additional charges in excess of the charges in this Agreement or the Contract Documents. The County agrees to pay one half of the agreed upon price at completion of field work and the remaining one half of the price upon receipt of the final audit report. The County agrees to pay all correct statements within thirty days of receipt; Contractor agrees to honor any cash or prompt payment discounts, if any are available, when County makes payment as provided therein. In the event of a billing dispute, the County reserves the right to withhold payment on the disputed amount.
5. **Binding Effect.** This Agreement shall be binding upon the parties hereto and their successors and assigns for so long as this Agreement remains in full force and effect.
6. **Entire Agreement.** This Agreement constitutes the entire Agreement between the parties and supersedes any prior negotiations, written or verbal, and any other bid or bid specification or contractual agreement. This Agreement may only be amended by a signed writing executed with the same formality as this Agreement.
7. **Termination.** This Agreement may be terminated by the County upon thirty days advance written notice for any of the following reasons or under any of the following circumstances:
 - a. Due to material breach of any term or condition of this Agreement, or
 - b. If in the opinion of the Johnson County Commission Services are delayed or are not provided in conformity with specifications or variances authorized by County, or
 - c. If appropriations are not made available and budgeted for any calendar year.
8. **Governing Law; Venue.** This Agreement shall be governed by the laws of the State of Missouri. Venue for any dispute arising out of the formation, interpretation, or claims regarding a breach of this Agreement shall be solely and exclusively in the Circuit Court of Johnson County Missouri.

IN WITNESS WHEREOF the parties through their duly authorized representatives hereby execute this Agreement.

"Contractor"

Johnson County, Missouri

Authorized Person (PRINT)

Title

Signature

Date

Address

Troy A. Matthews, Presiding Commissioner

John L. Marr, Eastern Commissioner

Charles Kavanaugh, Western Commissioner

Date

Diane Thompson, County Clerk

Attest:

AUDITOR CERTIFICATION: In accordance with 50.660 RSMo, I hereby affirm that as of _____ (date) there is a balance otherwise unencumbered to the credit of this appropriation and a cash balance otherwise unencumbered in the treasury to the credit of the fund (_____-_____-_____) from which payment is to be made, each sufficient to meet the obligation incurred. _____, Chad Davis, Johnson County Auditor

One-Inch GSD Sections

All Remaining Sections

MC

Additional Information

Clarification

3. Standard Terms and Conditions, 3.14 Cooperative Procurement

Cooperative Procurement pricing is subject to project specifications and quantities.

Form W-9

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type.
See Specific Instructions on page 3.

Pictometry International Corp. dba EagleView

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☒ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ►

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ►

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

PO Box 735288

6 City, state, and ZIP code

Dallas, TX 75373-5288

7 List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

____ - ____ - ____

or

Employer identification number

1 6 - 1 5 9 5 4 7 3

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

**Sign
Here**

Signature of
U.S. person ►

Stephen P. Dorton
Stephen P. Dorton (Jan 24, 2024 10:35 CST)

Date ► January 24, 2024

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.