

**SPECIAL TERMS AND CONDITIONS
ACQUISITION OF ONE FOOT AERIAL DIGITAL ORTHOIMAGERY IN
UINTAH COUNTY**

1. Purpose

Uintah County, Utah is seeking to establish a contract with a qualified vendor or vendors (referred to in this document as “contractor” or “contractors” who have the capacity to capture, orthorectify, and deliver a variety of imagery products that meet the specifications described in this scope of work.

2. Scope of Work

It is the intent of this Invitation to Bid (ITB) to get pricing for selected products assuming a range of sizes in square miles of acquisition areas. These areas would be representative for regions within Uintah County. This ITB identifies the specific acquisition requirements, production specifications and standards, and delivery schedule.

3. Project Area and Description

This ITB requests pricing for three (1) specific acquisition areas based in the square mile area that is located in Uintah County, as represented in Attachment 1, which is about 250-1350 square miles.

4. Performance Period and Schedule

4.1 Performance Period.

The intent is to acquire imagery in 2012 that best provides a view of the features on the ground without obscurities by **tree foliage, shadows haze, fog, dust, smoke, clouds or snow**. For the area in Attachment 1, the acquisition should be in the early spring of 2012.

4.2 Delivery Schedule

A formal schedule of delivery will be worked out between Uintah County and the contractor. This schedule will include a small initial pilot delivery (selected from the area in Attachment 1) to ensure that data meet the specifications and conditions included in the specifications of this ITB and the final contract. The pilot delivery area will be selected based on agreement between the contractor and the GIS department and Uintah County Commissioners. GIS department and Uintah County Commissioners will have 10 calendar days to review the pilot delivery and return comments to the contractor. The purpose of this review is to provide early feedback to the contractor on any issues regarding the results of their processing the data. The intent is that the pilot area review be completed before the processing of the rest of the acquired imagery commences.

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5. Distinct Needs and Requirements

5.1 The Contractor is responsible for applying for and obtaining all required permits, clearances, permissions, etc. for access, over-flight, or intrusion to restricted or otherwise limited ground access and/or airspace, which may be included within the requirement of this project.

6. Imagery Acquisition Requirements

6.1 Collection: High-resolution aerial imagery controlled with airborne Global Positioning System (GPS) and, at the Contractor's option, Inertial Measurement Unit (IMU), over the project areas.

6.2 Ground Resolution: Imagery will be acquired with One foot ground sample distance (GSD) in order to accommodate the use of United States National Grid for final delivery.

6.3 Imagery Type Range: The imagery contracted will be 4-band color for the areas defined in [Attachment 1](#).

6.4 Project Area(s) Boundaries: Imagery capture will cover the entirety of the areas defined by the boundaries provided to the Contractor by Uintah County for each product.

6.5 Image Coverage Area:

Overlap Area: In order to ensure minimal building lean, sidelap requirements will need to be increased when acquiring the One foot imagery

6.6 Time of Day and Year: Imagery shall be acquired during minimal shadow conditions. For the sun angle shall be near its highest point to minimize shadows.

6.7 Acquisition Conditions:

6.7.1 The following conditions apply:

- Imagery shall be acquired only under conditions free from clouds and cloud shadows, smoke, dust, haze, light streaks, and snow.
- Ground conditions are free of snow (except in conditions of permanent snow).

6.8 Supplemental Ground Control: Differentially corrected or RTK GPS Ground Control used to supplement the Airborne GPS positional adjustment shall be stored on portable media, in a non-proprietary format mutually agreeable to Uintah County and Contractor. Ground control is the responsibility of the contractor who shall coordinate with Uintah

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County to insure that county control are used when available

6.9 Photography Supplemental Report: A Photography Supplemental Report of all the imagery flown shall be produced for the project. The report shall show the flight line numbers and exposure station numbers. Dates and time of each exposure should be included in the report.

6.10 Flight Diagram: The Contractor shall produce in electronic format, a Flight Diagram plot that illustrates the project area outline, image identification, and approximate location of image centers. Exposure numbers appearing on the flight diagram shall match exposure numbers of the image tile.

7. Summary Table

| | | One foot |
|--|--|---------------|
| Processed Image Type for Attachment 1 areas | | 4-band color |
| Processed Image Type for other areas | | Natural color |
| Leaf Off | | |
| Minimum Sun Angle | | 35 degrees |

8. Digital Orthophoto Production: Shall be produced consistent with the following requirements:

8.1 Aerotriangulation Data: Aerotriangulation data used in the orthorectification process shall consist of refined plate coordinates and adjusted ground coordinates. The contractor shall produce a statistical report of aerotriangulation summarizing the results of the block adjustment.

8.2 Digital Orthorectified Image Datum: Digital orthorectified images will be referenced to North American Datum (NAD)1983

8.3 Digital Orthorectified Image Color: For areas in Attachment 1 images will be natural color (4 color bands). The source photography needs to be of sufficient quality and resolution to support production of digital orthorectified images to meet specifications in this ITB.

8.4 Ground Resolution: Digital orthorectified image or ground resolution (pixel size) shall be One foot based on specifications for each area.

- **8.5** Digital Orthorectified Image Format: Digital orthorectified images will be submitted in uncompressed GeoTIFF file format with companion .tfw spatial reference (or world) files. Data shall not be compressed during **ANY PHASE** of the production process. Presence of compression artifacts will be cause for rejection.

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8.6 Digital Orthophoto Characteristics:

- The maximum misalignment (relative join) of between transportation features on adjacent image tiles/seamlines shall not to exceed 3 pixels.
- Orthophotos shall be tonally balanced to produce a uniform contrast and tone across the image tiles of the entire project.
- Changes in color balance across the project, if they exist, shall be gradual. Abrupt tonal variations between tiles/seamlines are not acceptable.
- Building tilt shall be corrected to the extent that transportation features are not obscured. Bridge and overpass structures shall be corrected.
- Ground features appearing in the orthophoto imagery, such as building roof tops, water towers, and radio towers, shall not be clipped at seamlines or between individual tiles.

8.7 Resolution: The source imagery shall be of sufficient resolution to support production of digital orthorectified images to a ground pixel resolution of One foot

8.8 Accuracy: The horizontal accuracy must meet these specifications

| Product | Horizontal | Vertical |
|---------------------|------------------------|-----------------|
| One foot Orthophoto | 95% confidence 37.5 cm | Not applicable |
| | | |

8.9 Datum/Coordinate Specifications:

- Horizontal Datum – NAD83
- Vertical Datum - NAVD88
- Coordinate System – StatePlane, Utah Central Zone
- Mapping Units – Feet
- Geoid Model – Geoid03

9. Deliverables:

9.1 The Contractor will provide Uintah County with a delivery schedule . The digital data all products delivered are the property of Uintah County.

9.2 Digital orthophotography shall be delivered as described in Paragraph 8.

9.3 Delivery Medium and Format: Digital Orthorectified Images shall be delivered on USB II compatible portable hard drives.

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9.4 Digital Orthophoto Production: Delivery Medium and Format: Digital Orthorectified Images, in GeoTIFF format with companion .tfw spatial reference (or world) files, shall be submitted on USB II compatible portable hard drives. Image tiles shall be accompanied by an index sheet (with the date and time) and shape file.

10. Project Communication

10.1 Production Status Reports: The Contractor will submit, via e-mail to Uintah County GIS Project Manager, weekly status reports for all work on the project. Reports will include detailed information regarding the work accomplished for each production phase. An online website may be used to provide status information.

10.2 An initial project meeting between Uintah County and the Contractor(s) will be scheduled after the award of the bid request. This meeting will ensure that both Uintah County and the Contractor(s) 1) understand the requirements to produce the deliverables, 2) review source data and 3) make any final adjustments to technical guidance.

11. Delivery date, timely completion

Delivery date for all final products for areas in Attachment 1 is no later than July 16, 2012.

The payment schedule shall include penalties for late delivery of products. The payment schedule will be based on 50% of the total project cost after completion of the flight collecting the aerial photography. After the completion of processing and corrections based on the quality assurance review by the Uintah County GIS Department and Commission and delivery of the final product(s) to Uintah County, payment will be made as follows. If delivered on time as specified in the contract another 50% will be paid. If the final product(s) is not delivered on the schedule specified, there will be a 5% (of the total bid) penalty for each week the product delivery is delayed.

12. Pricing

All bidders shall complete the Aerial Photography Product Pricing matrix or similar (See Attachment 2)

13. Submission of bids

Bids must be received by the posted due date and time. Bids received after the deadline will be late and ineligible for consideration.

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Anyone wishing to bid should submit a written proposal directly to Uintah County Clerk Auditor **three copies** (1 Master and 2 copies) must be provided. Proposals submitted under improperly marked covers may be rejected.

Proposals may be modified or withdrawn prior to the deadline set for opening of proposals.

The Clerk Auditor reserves the right to accept or reject any and all bids.

14. Consideration of Bids

Bids must be clearly marked “Aerial Photography Bid” on front of envelope and be submitted no later than 4:00pm on Friday _February 10 2012_ to the Clerk Auditor office at 147 East main Vernal UT 84078

In the initial phase of the Contractor selection process, all bids received on time will be reviewed. First, non-responsive bids (those not conforming with bid specifications) will be eliminated. Second, the remaining bids will be reviewed and those bids that do not provide evidence to be able to perform services in the bid specifications will be eliminated.

15. Evaluation of Bids

Evaluation of bids will be based on most favorable price meeting specifications.

16. List of Attachments

Attachment 1 – High Resolution Ortho-Photography (HRO) Proposal 2012

Attachment 2 - Aerial Photography Product Pricing matrix