



**Amendment #1**  
**Task Order Request for Proposals (TORFP) 060B8400047**  
**Digital High-Resolution Aerial Photography**  
**May 17, 2018**

Ladies/Gentlemen:

This Amendment #1 is being issued to amend and clarify certain information contained in the above referenced Task Order Request for Proposals (TORFP). All information contained herein is binding on all Offerors who respond to this TORFP. For the following changes/additions, any new language has been double underlined and marked in bold (i.e., **new**) and any deleted language has been marked with a strikethrough (i.e., ~~delete~~).

**1. Revise Key Information Summary Sheet “TO Proposals Due (Closing) Date” as follows:**

<b>TO Proposals Due (Closing) Date and Time:</b>	<del>May 23,</del> <b><u>June 1,</u></b> 2018 at 2:00 PM Local Time Offerors are reminded that a completed Feedback Form is requested if a no-bid decision is made (see Section 5).
--	--

**2. Revise 2.3.1 Project Area as follows:**

- A. The project area is specific to the 23 counties of Maryland and Baltimore City and covers approximately ~~10,120~~ **9,772.80** square miles of land area (refer to TORFP Section 2.3.3 Land Area by County below). The actual project area to be captured will be larger to take into account water and buffer areas. A buffer area of 1,000 feet shall be provided. Note that the Maryland border extends to the Virginia shoreline of the Potomac River. The buffer shall therefore extend 1,000 feet beyond the Virginia shoreline. The entire Chesapeake Bay shall be captured. The border of the Chesapeake Bay shall be buffered beyond the shoreline a minimum distance of 2,500 feet. The overlap distance is required to ensure sufficient imagery and elevation data exists so as to complete the entire project boundary without any concerns about quality or accuracy fall-off at the boundary. Note that inland waterways (including but not limited to Patapsco River, Severn River, Patuxent River, Back River, South River, and other inland waterways) shall be covered in their entirety. Also note that the entire span of the Chesapeake Bay Bridge (US 50), Susquehanna Bridge (I-95), Potomac River Bridge (US 301), Francis Scott Key Bridge (I-695) and the Woodrow Wilson Bridge (I-495) shall be captured to include buffering beyond the roadside a minimum distance of 2,500 feet where buffering does not



otherwise exist. The contractor shall ensure full coverage for both shorelines for the Potomac and Susquehanna Rivers are obtained.

**3. Revise 2.3.12 Sidelap as follows:**

30% sidelap shall be applied except in those areas designated for ~~Near~~ True Orthos.

**4. Revise 2.5 Optional Products as follows:**

The State is interested in understanding the Offeror's methodology for providing the Optional Products listed below. Associated with these the Offeror shall provide Not-To-Exceed (NTE) pricing, on a per unit measurement, for each of the products listed.

1. Higher-resolution orthophotography
2. ~~Near true~~ **True** Orthos
3. LiDAR
4. Mobile LiDAR
5. Oblique Imagery Planimetric Mapping
6. Land Cover/Land Use

More detailed information about the optional products is described as part of this TORFP. The State is not obligated to procure any of these optional products and the price for the optional products will not be included as part of the financial evaluation. However, all methodologies for all proposed products will be considered as part of the overall evaluation process.

**5. Revise 2.5.2 True Orthophotos as follows:**

**2.5.2 ~~Near~~ True Orthophotos**

- A. Some local jurisdictions have business requirements that necessitate the acquisition of ~~near~~ true orthophotography in specifically identified portions of their locality. Several counties may also consider countywide acquisition of ~~near~~ true orthophotos to support in-house updates of planimetric features (specifically buildings and roads). For each of these project options, the TO Contractor will be required to adjust the forward overlap from 60% to 80% (not applicable for linear array based digital sensors) and to adjust the sidelap from 30% to 60%. However, each agency may elect for additional "spot shots" or mini-strips to be taken over buildings that have traditionally yielded less than desirable results using the adjusted forward overlap and sidelap approach. Alternative methods of producing ~~near~~ true orthophotos (such as building modeling) will also be considered.
- B. ~~Near~~ True Orthophotos Deliverables



**6. Revise 2.5.3 (B) LiDAR as follows:**

B. If requested, LiDAR shall be flown in leaf off conditions. The Contractor shall review and finalize the work plan for LiDAR collection and processing for each county to be collected and the final deliverable products would be produced on a countywide basis. The FAI TO Contractor shall ~~engage a subcontractor to perform independent QA/QC on the LiDAR data acquired. The QA/QC shall be performed in an objective and thorough manner. (the QA/QC is not to be performed by the contractor that acquired and processed the data) and the QA/QC subcontractor.~~ The TO Contractor shall certify in writing that it has reviewed the data for compliance with USGS specifications. The State reserves the right to perform its own QA/QC.

**7. Revise 2.5.4 (B) Mobile LiDAR as follows:**

B. At a minimum the mobile LiDAR unit must be capable of collecting engineering grade data at an accuracy meeting or exceeding a horizontal and vertical accuracy of 0.2'. The table below shows accuracy and density levels and suggested applications.

<u>Accuracy</u>	<u>HIGH</u> <u>≤ 0.05 m</u> <u>(&lt;0.16 ft)</u>	<u>MEDIUM</u> <u>0.05 to 0.20 m</u> <u>(0.16 o 0.66 ft)</u>	<u>LOW</u> <u>≥ 0.20 m</u> <u>(&gt;0.66 ft)</u>
<u>Density</u>			
<u>FINE</u> <u>&gt;100 pts/sq m</u> <u>(&gt;9 pts/sq ft)</u>	- <u>Engineering surveys</u> - <u>Digital terrain modeling</u> - <u>Drainage/Flooding analysis</u> - <u>Virtual, 3D design</u> - <u>Structural inspections</u>	- <u>Power line clearance</u>	- <u>Roadway condition assessment (general)</u>
<u>INTERMEDIATE</u> <u>30 to 100 pts/sq m</u> <u>(3 to 9 pts/sq ft)</u>	- <u>unstable slopes</u> - <u>landslide assessment</u>	- <u>General mapping</u> - <u>Coastal change</u> - <u>Environmental studies</u>	- <u>Asset management</u> - <u>Inventory mapping</u>
<u>COARSE</u> <u>&lt;30 pts/sq m</u> <u>(&lt;3 pts/sq ft)</u>	- <u>Natural terrain mapping</u>	- <u>Vegetation management</u>	- <u>Emergency response</u> - <u>Land use/zoning</u> - <u>Urban modeling</u>

**8. Revise 2.5.5 (E) Oblique Imagery as follows:**



**E. Oblique Imagery Deliverables**

<b><u>ID#</u></b>	<b><u>Deliverable Description</u></b>	<b><u>Acceptance Criteria</u></b>
<b><u>2.5.5.1</u></b>	<b><u>Project work plan</u></b>	<b><u>A MS Excel or MS Project file to include, but not limited to, the following:</u></b> <ul style="list-style-type: none"> <li>- <b><u>Gantt chart</u></b></li> <li>- <b><u>Tasks</u></b></li> <li>- <b><u>Task start date and end date</u></b></li> <li>- <b><u>Task estimates</u></b></li> <li>- <b><u>Milestones</u></b></li> <li>- <b><u>Person responsible</u></b></li> <li>- <b><u>Status</u></b></li> </ul>
<b><u>2.5.5.2</u></b>	<b><u>Monthly Reports</u></b>	<b><u>An MS Word or PDF document to include, but not limited to, the following:</u></b> <ul style="list-style-type: none"> <li>- <b><u>Tasks completed</u></b></li> <li>- <b><u>Tasks in progress</u></b></li> <li>- <b><u>Tasks on hold and why</u></b></li> <li>- <b><u>Action items and owners</u></b></li> <li>- <b><u>Project schedule and status</u></b></li> <li>- <b><u>Challenges</u></b></li> </ul>
<b><u>2.5.5.3</u></b>	<b><u>Metadata</u></b>	<b><u>Delivered in the format as determined in the work order</u></b>
<b><u>2.5.5.4</u></b>	<b><u>Oblique frame images</u></b>	<b><u>Delivered in format and resolution specified in the work order</u></b>

**9. Revise 2.5.6 (A) County-based Planimetric Data as follows:**

- A. The Offeror shall provide a cost to update or produce new planimetric features. For the purpose of pricing, it is assumed updates or new mapping would be done on a countywide basis. Pricing shall include the delivery of Level 1 and Level 2 planimetric features as listed in the table below. The development of a detailed project work plan and database design, completion of a pilot project, delivery of data in geodatabase format, and ~~independent~~ QA/QC services (~~using a subcontractor~~) must be factored into the pricing. **QA/QC must be performed in an objective and thorough manner.**

**10. Revise 3.10.2 (A)(3)(b)(ii) Offeror Experience as follows:**

- b) Demonstrated experience in providing each of the services listed below as described in at least one example:
  - ii) ~~Near-True~~ Orthophotos (See Section 2.5.2)

**11. Revise 5.4.5 (B) (10) as follows:**

- 5.4.5. The TO Technical Proposal shall include the following documents and information in the order specified as follows:



State of Maryland  
Department of Information Technology

LARRY HOGAN  
Governor  
BOYD K. RUTHERFORD  
Lieutenant Governor

MICHAEL G. LEAHY  
Secretary  
LANCE SCHINE  
Deputy Secretary

B. Production Approach

This section is not limited in length and is intended to be the focus of the TO Proposals. Please address all primary and secondary options. At a minimum, the following information must be supplied:

- 10) Techniques for ~~Near~~ True Ortho production

**12. Delete Attachment B-1, Financial Proposal Form, provided on May 3, 2018 and replace it with Attachment B-1, Financial Proposal Form, provided on May 17, 2018 (Excel spreadsheet).**

Issued by:

Memory Jackson, MA, CFCM  
Procurement Officer