

721-2008 ADDENDUM 1

PROVISION OF LOW LEVEL AERIAL PHOTOGRAPHY

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

ISSUED: September 29, 2008
BY: Rachel Eccles
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20070419

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 8 of Form A: Bid may render your Bid non-responsive.

PART E – SPECIFICATIONS

Revise: E2.8 to read: The **Contractor** must supply the City with the following materials upon completion of the Work:

- (a) All processed film;
- (b) Three full sets of stereo contact prints;
- (c) Three flight index maps;
- (d) An aerial photography film report;
- (e) **Colour Digital Photos in 8 cm resolution in the following format:**
 - (i) **Raw .Tiff, uncorrected stereo images**
- (f) **Colour Orthophotos shall be rectified (geo-referenced and geo-coded) to the city basemap within a 500m X 500m grid template which shall be provided by the City of Winnipeg:**
 - (i) **TIFF images with associated world files.**
 - (ii) **A single .ECW format mosaic file.**

Add: E3. ACCEPTABLE EQUIPMENT, PERIPHERALS AND RESOURCES

- E3.1 Only frame based cameras shall be considered for this Bid Opportunity. Line Scanners/Swath Cameras shall not be considered.
- E3.2 Only modern large format photogrammetric cameras that will provide suitable photography for topographic mapping (ie Leica RC30, Ziess Top 30) with forward motion compensation shall be considered.
- E3.3 The film used in film based cameras shall be scale-stable (such as the Cronar or Estar-based films), shall not have passed the expiration date and shall have been stored in accordance with the manufacturer's instructions.
- E3.4 The negatives of film based cameras shall be scanned uncut at a resolution of 15 micrometers or less. The resulting image shall be reversed to produce positive images.

- E3.5 The scanner used to scan film based camera negatives shall have a valid calibration report in terms of geometric and radiometric accuracies and the geometric accuracy of the scanner shall be 3 micrometers at one standard deviation or better. There shall be no error exceeding 9 micrometers.
- E3.6 Option for Digital Photo Acquisition Suppliers using equivalent digital frame cameras, (i.e. DMC, Vexcel X (XP), DIMAC) must provide evidence that their proposed platforms are suitable for topographic mapping and the project at hand. The onus is on any supplier using digital sensors to demonstrate that such digital airphoto acquisition is equivalent with the ICAS specifications and that geospatial deliverables meet functional and technical requirements.
- E3.7 Only the following large format digital cameras shall be considered for this Bid Opportunity:
- (a) Intergraph DMC Aerial Camera;
 - (b) Vexcel UltraCam X Aerial Camera;
 - (c) DiMac Aerial Camera.
- E3.8 For digital cameras whose sensors are designed differently than the traditional analog large format survey camera, the flying height may differ. However, it is required that the flying height of the aircraft be such that the acquired raw imagery be at 8 cm or lower ground sample distance such that the quality and resolution of the photos are equivalent to or exceed 1:5000 scale analog film camera negatives scanned at 15 microns.
- E3.9 To assist in establishing ground control, a book of Geodetic Control Monuments inside the City published by the Geodetics Branch of Planning, Property and Development Department of the City of Winnipeg is available. Contact the Contract Administrator for information on obtaining the book.