



# **OFFICE OF WILL COUNTY EXECUTIVE**

## **JENNIFER BERTINO-TARRANT**

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**BID # 2021-60**  
**LiDAR Data Bid**  
**WILL COUNTY**  
**JOLIET, IL**

**ADDENDUM #1**  
December 30, 2020

We received the following questions regarding the bid listed above:

Question # 1 Does the County want QL0 lidar with 20 points per sq meter or QL1 lidar delivery with 8 points per sq meter?

Answer # 1: The County wants QL1 lidar delivery with 8 points per sq meter.

Question # 2 Does the County want a hydro-flattened DEM? This is a standard lidar product but we do not see that on the deliverables list.

Answer # 2: The County wants a hydro-flattened DEM. Please include any associated cost on the Lidar Processing & Classification line.

Question #3: Does the County want a hydro enforced DEM (culverts would be cut through roads for the purpose of hydro modeling.) If so, do you want this DEM and required culvert inventory included in the proposal as a separate line-item?

Answer # 3: The County does not want a hydro enforced DEM.

Question #4: Does the County have current aerial imagery they can share with the selected consultant?

Answer # 4: The County will provide current aerial imagery with the selected consultant.

Question #5: How wide does the County want double lines streams (breaklines) mapped to? (USGS standard is 100ft.)

Answer # 5: Please use the USGS Standard for mapping streams as double lines.

Question #6: Is the County expecting the survey report to be on the calibration control or is the County expecting a full NVA/VVA survey report? (NVA/VVA is a more expensive survey report which uses independent survey points to review the data over various vegetated and non-vegetated land cover types.) .

Answer # 6: The County is expecting the survey report to be on the calibration control.

Question #7: Per your RFP specifications, I am reading that the only means of collection that would be allowed is Geiger Mode at 20ppsm. Will traditional Linear acquisition alternatives be considered for your project. As well as the standard  $\geq 8.0$ ppsm per the USGS Lidar Base Specification 2020 rev. A for QL1 data.

Answer # 7: Please see the attachment (to correct misinterpretation of our Standards and Considerations section) for Bid #2021-60 LiDAR Data for Will County. Please use any LiDAR collection mode that adheres to the USGS Q1 standards.

Question #8: For clarification, is this bids is for a high-resolution data set of (Geiger Mode) LiDAR? Will the county accept Linear Mode LiDAR meeting the USGS QL1 standards?

Answer # 8: Please see the attachment (to correct misinterpretation of our Standards and Considerations section) for Bid #2021-60 LiDAR Data for Will County. Please use any LiDAR collection mode that adheres to the USGS Q1 standards.

Question #9: The project specs indicate the topographic contours are to be produced at a 1' interval, but the Fee Schedule indicates the base bid is for 2' contours, with 1' contours being optional. Is the Fee Schedule the proper interpretation, i.e., 2' contours with 1' contours being optional?

Answer # 9: This proposal is collect LiDAR data that adheres to the USGS Q1 standards. Those standards would allow for 1 foot contours to be generated. Your interpretation of the Fee Schedule is correct. The base bid requires a price to produce 2 foot contours which covers our statutory requirements. The vendor may provide an optional price to produce 1 foot contours. The County has future needs which would be more well suited in utilizing 1 foot contours.

Question #10: Is Aircraft Insurance (typically \$ 5 million) required?

Answer # 10: Aircraft Insurance is not required. Please review sections L, M & N for related information.

## **STANDARDS and CONSIDERATIONS**

The county encourages the proposers to review the scientific literature to formulate an optimum solution or solutions. Unless otherwise noted, project specifications are based on the USGS's LiDAR Base Specification Heidemann, Hans Karl, September, 2019, LiDAR Base Specification 2020 rev. A: See U.S. Geological Survey NGP Standards and Specification Elevation Specifications Review Board Techniques and Methods, This specification is online and may be viewed at <https://www.usgs.gov/core-science-systems/ngp/ss/lidar-base-specification-online>. These LiDAR specifications are required baseline specifications. For any item which is not specifically addressed, the reference 2020 rev. A specification will be the required specification authority. This project is for a high-resolution data set of LiDAR. Geiger Mode systems may not currently meet the USGS Lidar Base Specification, as that specification was written specifically to address linear mode LiDAR. Required attributes such as multiple returns, specified scan angles, and flagging overlapping points, are based on linear mode systems that collect data in a specific and different manner than the Geiger Mode technology. Attribution specific to linear mode technologies will not be considered in the assessment of the data. The project will adhere to all other specifications as noted above including adherence to minimum point density and associated vertical and relative accuracies. This project is for a high-resolution data set of LiDAR of approximately 887 square miles for Will County, which includes a quarter (1/4) mile buffer. The LiDAR is to be collected at a USGS QL1 (8 ppsm for the entire project). The Spatial Reference System shall be: Illinois State Plane East Zone, NAD-83(2011) (horizontally), NAVD88 (vertically), US Survey Feet.