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Addendum # 2.2 for LiDAR Based Street Tree Inventory for New York City Contract

RE: 84627P0002-LiDAR Based Street Tree Inventory for New York City

ATTENTION ALL PROSPECTIVE BIDDERS

A. Please be advised of the following additional specifications related to the above mentioned contract:

ADDITIONAL SPECIFICATIONS:

- Scanner accuracy: The scanner shall have a range accuracy of ≤ 10 mm and a range precision of ≤ 7 mm at a range of 30 m.

- Point density: Point density must meet minimum required specifications at 20mph at 30 meters.

- Positional accuracy: Positional (absolute) horizontal and vertical accuracy of the point cloud shall be ≤ 10cm RMSE in open-sky conditions, verified against at least 30 independently surveyed checkpoints. Positional accuracy in degraded-GNSS areas (e.g., urban canyons) shall be reported separately, shall be ≤ 25 cm RMSE, and those areas shall be flagged in the deliverable.

- Metric accuracy: Accuracy of each derived metric shall be assessed as root mean square error (RMSE) against independent field measurements on the verification sample and shall not exceed the thresholds below. Tree height ≤ 3ft; DBH: diameter (single stem, and multi-stem combined) ≤ 2in; Crown height ≤ 3ft; Lowest limbs ≤ 2ft; Crown projection area ≤ 15% (relative RMSE); Leaf area index ≤ 0.5 LAI units or 15% (relative RMSE), whichever is greater.
  - Vendors may propose alternative thresholds or reference measurement methods, with supporting justification (e.g., published or project validation results), and shall price the base proposal against the thresholds stated above. Parks will evaluate any proposed alternatives and, where acceptable, will agree on final thresholds with the selected vendor before work begins. Unless Parks agrees otherwise in writing, the thresholds above apply.

- Sampling rate: The vendor's QA/QC plan must state the field-verification sample, at minimum 200 trees per borough stratified by size class and species group, and checkpoints distributed across each borough.

- Acceptance criteria: Deliverable are accepted when all thresholds above are met on the verification sample. Affected areas that fail must be reprocessed or re-captured at the vendor's cost. As data is being processed, metrics should be shared with the agency on a rolling basis to accommodate timely review and feedback. Upon final delivery, the vendor shall provide a comprehensive report describing any discrepancies or outliers encountered during data collection and processing, along with the corrective actions taken.

- Health condition: Trees that match the existing inventory should be assigned to the species in the existing data which is available on the NYC Open Data Portal. For trees that have no existing species record, Parks' staff will coordinate with the arborist on the vendor team to review data and determine species.

Parks will provide definitions for Excellent, Good, Fair, Poor, and Dead condition ratings. The vendor may also propose definitions, and we can reach a mutually agreed upon set of definitions. The vendor should propose a methodology that will use these definitions combined with leaf area index and dieback measurements to produce an overall health condition rating. Health condition should be a composite measure using leaf area index and dieback normalized to the species.

- Tree metrics: All required metrics in Table 2 must be provided for all trees, including those already in the ForMS database. Trees that match must be linked to their ForMS identifiers, new trees reported with null ForMS attributes, and existing trees not detected reported separately as potential removals.

Any provisions of the above-referenced contracts that conflict with the aforementioned changes shall be modified to conform to such changes. Such changes shall take precedence over current provisions. Otherwise, the remaining provisions of the contract remain in effect.

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