Does the City have a preference between the LiDAR digital twin approach and in-person assessment, or are both methods equally acceptable if deliverables meet requirements?

Both methods are equally acceptable if deliverables meet the requirements.

For the infrastructure inventory, does the City anticipate selecting specific asset types, or is it expected that respondents price all listed types?

Price listed types.

To confirm, vacant spaces are not required to be inventoried?

Vacant spaces need to be inventoried. There are cases where a tree is present, but the data claims that the site is vacant.

For Forest Park's crown width and height data fields, is an ocular estimate acceptable or does the City require rangefinder or similar?

A range finder, clinometer or similar is required.

Would the City accept photographs/LiDAR 2D image as a separate price? Yes.

For the tree inventory, does the city prefer lump sum or per tree pricing?

Per tree pricing.

The RFP notes the City may award by zone or geography- is there a minimum award size? There is no defined minimum.

The RFP notes a 3 year contract- is that the City's desired timeline for project completion?

The desired timeline is as soon as feasible. Sooner than 3 years would be ideal, but 3 years is acceptable.

Can the evaluation scoring rubric or weighting for each criterion be made available?

After the fact, any evaluation compiled could be shared.

RFP Page 3, Section I – Purpose and Intent

Does the estimated inventory of approximately 120,000 trees include both park and right-of-way trees, and does it include existing stumps? Yes and yes

RFP Page 3, Section I; Page 5, Section IV – Scope of Work

Will the City provide authoritative GIS boundary layers defining:

• Public right-of-way no, but we do have an authoritative capability to provide what is *not* right of way.
• Park boundaries (including Forest Park) yes
• Any excluded areas (e.g., state routes, private enclaves, unimproved ROW)? we can

RFP Page 4 – Duration of Awarded Contract

Is this contract intended as a one-time baseline inventory, or as a multi-year on-call or update contract over the three-year term with optional extensions? one-time, currently. but a term with extensions and pricing for re-inventory would be considered.

RFP Page 5, Section III; Page 4 – Duration of Awarded Contract
Is there an anticipated Notice to Proceed date, and does the City prefer rolling/zone-based deliverables or a single final delivery? No and no preference, depending on the specifics of the deliverable.

RFP Page 5, Section IV – Scope of Work
Are there any seasonal constraints or preferences affecting LiDAR capture or in-person field verification activities? No

RFP Page 5, Section IV – Scope of Work
If a hybrid methodology is acceptable, is there a minimum required proportion of trees that must receive an in-person inspection by an ISA Certified Arborist (e.g., 100% of trees, a risk-based subset, statistically valid sample, or only trees flagged by automated analysis)? A risk-based subset and trees flagged by automated analysis.

RFP Page 6, Section 1 – Tree Inventory Update & Location Mapping
Does the City have a spatial tolerance to determine when to move a GUID? +-15 ft

RFP Page 6–7, Section 2 – Infrastructure Inventory
For infrastructure extracted from LiDAR data, does the City have minimum acceptable detection, completeness, or positional accuracy expectations by asset type (e.g., signs, poles, hydrants, amenities)? no expectations/minimums.

RFP Page 7, Section 2 – Infrastructure Inventory
If raw LiDAR point cloud data are provided, is delivery of LAS/LAZ files sufficient, or does the City expect hosting, visualization tools, or access to a digital twin platform? delivery of files is sufficient

RFP Page 7, Section 3 – Maintenance Recommendation
Which specific defect types or observations must be identified to support recommendations for "tree removal" or "hazardous limb removal," and must such defects always be field-verified?
-Tree Removal - Trees in decline or dead, signs and symptoms of disease, infestation and decline, large hollows in trees, included bark, significant deadwood
-Hazardous Limb Removal - 4 inches or greater diameter, Broken hanging limbs, dead limbs
-Defects must be field verified if automated analysis is inconclusive

RFP Page 7–8, Sections 2 and 5 – Infrastructure Inventory / Deliverables
For LiDAR acquisition, are there any required specifications for point density, vertical accuracy, coordinate system, and preferred seasonality (leaf-on versus leaf-off)? none. our only usual practice for aerial observation is leaf-off, but this is intended to be ground-level, so it doesn't apply.

RFP Page 8, Section 5 – Deliverables
Please clarify what threshold is considered acceptable for the statement that "some site correlation loss may be acceptable" when reconciling existing inventory points with updated tree locations. if 5 to 10 % of trees cannot be correlated to existing inventory, ITSA would think that that *may* be acceptable loss rate.

Does the city require a new LiDAR collection or do they wish to use existing LiDAR (note that existing can be years out of date)? New

Is LiDAR the only acceptable source of tree height/canopy coverage information? For instance, would stereo- or tr-stereo image collections be acceptable for tree height and canopy coverage? Any method is acceptable with sufficient accuracy.

Is the city prioritizing canopy coverage or additional information (e.g. signs, speed-bumps) that would necessitate LiDAR collection over other options? The method of inventory is not a priority to prescribe. Both tree canopy information and infrastructure information is important.

Is the city open to using the results of LiDAR or other digital analyses to focus field work on relevant areas? Yes

Can you provide us with a .shp file of the area for the inventory? How many miles of city roads?
The Forestry Data set can be found here: https://www.stlouis-mo.gov/data/datasets/dataset.cfm?id=121 which includes all the necessary file types.
The street department website notes about 1000 miles of road that they maintain. https://www.stlouis-mo.gov/government/departments/street/street-division/potholes/report-a-pothole.cfm

· Does the City currently have a prior tree inventory in GIS format that this effort is intended to update, or is this project meant to establish the first baseline inventory?

Forestry Datasets can be found here. https://www.stlouis-mo.gov/data/datasets/dataset.cfm?id=121

· Are all trees included in the inventory accessible from, or adjacent to, City-maintained roads such that a mobile mapping vehicle using imagery and LiDAR could capture them, or are some trees only accessible through field-based inspection?

The trees are both easement and park trees. The easement trees will always be accessible via vehicle, however there may be parked cars/obstacles in the way of LiDAR. The park trees will

require a UTV of some kind if LiDAR is to be used there rather than a regular vehicle, or else done on foot.

Can the City provide a roadway coverage file or map of the areas where inventory collection is required to help support cost estimation for mobile collection?

The street shapefile can be found here.
https://www.stlouis-mo.gov/data/datasets/dataset.cfm?id=68

For optional items such as street signs, fire hydrants, and other infrastructure assets, will pricing for these elements be evaluated separately as part of the scoring process?
We will evaluate these optional items separately.

P. 5, Section IV. If a Lidar based / remote inventory is proposed, how does the city expect specific observations, defects, and maintenance recommendations be recorded?

We will work with the winning vendor(s) to create a functional schema that will import as inspections to City Works, the City's work order management software. Or, vendors can use this software directly.

Will an arborist be expected to assess each tree in-person after remote data is collected?

Yes. If the LiDAR and subsequent data processing does not deliver this information, it will need to be collected by an arborist.

RFP Pg. 4, Section I. *The initial contract term shall be three (3) calendar years from the date of Notice to Proceed (NTP) with 2 (two) additional 1 (one) year extensions.*

Is the expectation to split this project out over the full three-year base period? Or, will there be additional tasks issued to the winning firm in years 2-5?

Ideally, the winning vendor will complete this project as soon as feasible, however, this timeframe is acceptable if we receive periodic updates along the way. There will be no new tasks.

RFP Pg. 5, Section IV. Is it expected or assumed that there will be in-person tree assessments by our ISA Certified Arborist?
We assume the deliverables will be met using LiDAR, an in-person assessment, or a combination of both.

P. 5, Section IV. If a Lidar based / remote inventory is proposed, how does the city expect specific observations, defects, and maintenance recommendations be recorded?
We will work with the winning vendor(s) to create a functional schema that will import as inspections to City Works, the City's work order management software. Or, vendors can use this software directly.

Will an arborist be expected to assess each tree in-person after remote data is collected?

Yes. If the LiDAR and subsequent data processing does not deliver this information, it will need to be collected by an arborist.

RFP Pg. 4, Section I. *The initial contract term shall be three (3) calendar years from the date of Notice to Proceed (NTP) with 2 (two) additional 1 (one) year extensions.*

Is the expectation to split this project out over the full three-year base period? Or, will there be additional tasks issued to the winning firm in years 2-5?
Ideally, the winning vendor will complete this project as soon as feasible, however, this timeframe is acceptable if we receive periodic updates along the way. There will be no new tasks.

RFP Pg. 5, Section IV. Is it expected or assumed that there will be in-person tree assessments by our ISA Certified Arborist?
We assume the deliverables will be met using LiDAR, an in-person assessment, or a combination of both.

What percent of existing GUIDs have spatial accuracy issues?
"Spatial accuracy" is consumer-grade of +-15ft.
Is previous LiDAR available?
No
Are tree IDs physically tagged?
No
What is priority for infrastructure types?
Signs and signals.
Is sidewalk slope ADA compliance the intent?
Yes
What coordinate system is existing dataset in?
MO EAST FIPS US Feet (102696)
Is raw LiDAR ownership fully transferred?
Not required.