



Questions Addendum I Issued 6/12/14

Clarification:

1. If part of a structure is on City Right-of-Way then the total structure is considered City owned. For pricing purposes, the Contractor is to use best judgment to determine Right-of-Way. Upon award of the contract, GIS Right-of-Way information will be provided.
2. If any contradiction between the RFP and these answers exist, these answers will take precedence.

QUESTIONS FROM:

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1. Could the City provide the existing GIS data dictionary as part of the RFP (not actual data) to facilitate accurate gauging of attributes to be captured?
 - a. See the attached "Data Dictionary". The format of the final "Data Dictionary" will be coordinated with the contractor selected, but the attached is a sample of the data.

BDG	Bridge
CB	Catch Basin
CS	Control Structure
DI	Drop Inlet
FL	Flume
HW	Head Wall
INT	Intersection
JB	Junction Box
MH	Manhole
PPE	Plain Pipe End
SP	Standpipe
SPW	Spillway
TD	Trench Drain

2. What is the accuracy standard for both horizontal and vertical values - survey grade (centimeter), mapping grade (sub-meter) or other?

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- a. The elevation (Z ordinate) is not required, but will be part of the data structure. The location (X and Y ordinate) shall have sub-meter accuracy.
 3. What additional information will the City provide to the successful respondent (aerial photography, planimetrics / topographics, LiDAR, plats / engineering drawings approved by the City after April 2013, etc.)?
 - a. The City GIS Analyst will provide any data we currently have that would be helpful to the successful respondent.
 4. Please confirm that this project is for the entire City and that the provided map illustrates the areas in order of importance?
 - a. The maps included with the RFP do not illustrate the areas of importance.
 5. Are there further specifications for the plat images (2.3.13) regarding pixels, color or black and white, file size, etc.
 - a. There is no upper limit to the file size, although the highest practical pixel resolution is desirable for plat images. A minimum resolution of 2048 x 1536 pixels be provided in JPG format. If the plats are in color, the color will be maintained. If the plats are black and white, they will be submitted in that format. Images are to be provided on media which is agreed to by both parties.
 6. Is pricing to be included in the response or in a separate, sealed envelope?
 - a. Please submit pricing information and qualifications information in the same envelope.
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QUESTIONS FROM:

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1. To confirm, the City does want the scope/fee to include the inventory of **ALL** structures (the approximately 9,732 plus any new construction) OR just the 20% required annually by the MS4 Permit?
 - a. For clarification, the inventory and assessment of the total number of structures plus any new construction is for the entire five-year period. Therefore, for a one-year period the inventory and assessment will include only 20% of this total. This information is shown in the table on the attachment to the RFP. For each year, the inventory and assessment will entail only one of the Inspection Areas, not spread across all five inspection areas. (Note: this is an update from the information given at the Pre-Bid Conference).
2. Does the City want a **survey-grade** level of accuracy for the "Z"/rim elevations OR does the City want a **mapping-grade** level of accuracy?
 - a. See answer earlier in this report.
3. Can you provide more detail on the capital projects you would like developed? How many projects should we assume will be developed? This will help us determine fee.

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- a. For CY 2014, there are 30 Capital Improvement Projects. This number is expected to increase each year for an indefinite period.
 4. The City would like a list of structures that need to be cleaned. How would the City like to handle the attribution of structures that need to be cleaned out before full attribution is possible? Would the City like a price-per-structure included for structures that require a second visit?
 - a. The City requests a list of structures that need to be cleaned and the extent of cleaning required. A ranking system for tallying any cleaning will be discussed with the winning bidder. In addition, a “Price Per Structure” is required. The Consultant shall prepare a prioritized facility repair and/or replacement list and also outline the recommended work and necessary funding to complete the work over a multi-year budget cycle.
 5. Do you want us to determine the cost to repair for the capital projects? Also under this item – What do you anticipate being included in the “report”?
 - a. As stated previously, the selected Consultant shall review the data obtained in the inventory and determine which pipes need to be repaired or replaced. In addition, the Consultant shall determine if additional appurtenant improvements such as debris racks, wing and head walls, and downstream dissipation are necessary, along with associated costs for repair or replacement.
 6. The terms “Service Provider” and “Contractor” are both used throughout the description of work. Is there a difference between these 2 terms?
 - a. The terms are interchangeable and are synonymous for this RFP.
 7. Are we to include the fee within a separate, sealed envelope?
 - a. The fee should be included in the same envelope as other bid documents.
 8. Does the City have a desired schedule (driven by available budget or the MS4 Permit regs)? We can provide a compressed schedule (with more crews in the field) or a more extended schedule, based on the City’s preference. Clarify the City’s preference of your ideal schedule.
 - a. The desired schedule begins the inventory and assessment on July 14 and completed on October 22, although these dates may shift left or right up to one month contingent upon weather conditions, availability of personnel or equipment, or other justification which may affect the schedule.
 9. Given the City requires the fee to be a Lump Sum, would you entertain having a pilot project done?
 - a. The City would be willing to participate in a pilot project for this particular project, contingent upon mutually-agreed-upon guidelines and parameters.
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QUESTIONS FROM:

Don Jones

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1. The RFP asks for a lump sum proposal. Since the total number of structures is unknown, is this a request for a lump sum per structure or just a total lump sum?

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- a. The number of structures and conveyances is shown in the attachment included with the RFP. Therefore the RFP is for a total lump sum bid.
2. Considering the anticipated size of this project, will monthly billing be allowed, if this is a lump sum price?
 - a. Yes, monthly billing will be allowed.
3. If monthly billing is allowed, how will invoices be paid, on a percentage complete or number of structures completed?
4. Will the existing database have 2-foot contours for determining the size of the drainage areas for the Strahler Stream Order?
 - a. Yes – the database consists of two-foot contour intervals.
5. What degree of accuracy is acceptable for the Z value? The best GPS units I am aware of won't yield accuracies better than 6" to 12" when near tree canopy or tree buildings.
 - a. The elevation (Z ordinate) is not required, but will be part of the data structure. The location (X and Y ordinate) shall have sub-meter accuracy.
6. Will structures that cannot be measured by GPS be considered as virtual structures with regard to X,Y,Z values, ie, those obstructed by tree canopy or tall buildings?
 - a. Although the RFP addresses virtual structures, it is also possible that a recordable, accurate GPS location of some structures cannot be obtained because of tree cover or physical obstructions. Under these conditions, the structure shall be classified as an Offset Structure. Offset Structures shall be located by approximate means and fully attributed.
7. How much information is being requested when identifying capital projects?
 - a. The data to be collected for each feature shall include the location and attribution for structures and conveyances and provide in the sample data dictionary and geodatabase container. Structures to be inventoried generally include drop inlets, junction boxes, and line ends. Pipe sizes, materials and general condition observations are to be included as noted in the geodatabase format. Once the structures are located, all conveyances which include culverts, stormwater pipelines, and other drainage conveyances are to be inventoried as well. A detailed list of structures and conveyances can be found in the data dictionary.
8. Is it acceptable to inventory ditches and streams from contours in the existing database to create the totally connected system?
 - a. Yes – this is acceptable contingent upon verification that the ditch or stream exists (wet, dry, etc).
9. What level of inspection is expected on ditches and streams? What attributes are you looking for? Obstructions, erosion?
 - a. Photographs of all ditches and streams will be taken and linked to their corresponding database record, ultimately allowing the user to view the photo by selecting the map feature within the GIS environment.

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In addition, the Contractor shall create a stream network and report of stream miles (including ditches if applicable). The streams are to be networked showing the direction of flow and Strahler Stream Order. Obstructions, significant (not potential) erosion, and any other significant anomalies will be included in the inspection of streams and ditches.

A stream network is needed to allow the drainage system to have connectivity from the adjacent city and county boundaries. The Contractor shall provide the hydrologic network of the streams within the City limits as a geodatabase format to be approved by the City. A report of stream miles in each stream order shall be produced. The report shall total miles of stream by major basin and for the entire City. Hydrologic connectivity through lakes and ponds will be done with Lake Lines as defined in the data dictionary. The maximum drainage area at the beginning of a first order stream shall be 25 acres. The stream network and report of stream miles shall be delivered in the first month of the contract. Creation of TMDL basin polygons as a geo-database and report of stream miles in these basins is also required in the report.

10. Is there a desired completion time?

- a. The desired schedule begins the inventory and assessment on July 14 and completed on October 22, although these dates may shift left or right up to one month contingent upon weather conditions, availability of personnel or equipment, or other justification which may affect the schedule.

11. Does the city anticipate awarding multiple contracts?

- a. The City anticipates awarding multiple contracts.

QUESTIONS FROM:

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1. In regards to accuracy, is the City looking for survey-grade X, Y, & Z information or map-grade information?
 - a. The elevation (Z ordinate) is not required, but will be part of the data structure. The location (X and Y ordinate) shall have sub-meter accuracy.
2. Does the City have a target date in mind for the completion of the storm water drainage system inventory? Will the project be completed in sections (e.g. 20% a year) or is the goal to have the entire system re-inventoried within a year?
 - a. The desired schedule begins the inventory and assessment on July 14 and completed on October 22, although these dates may shift left or right up to one month contingent upon weather conditions, availability of personnel or equipment, or other justification which may affect the schedule.
3. What format is required for the deliverable?
 - a. The winning bidder shall provide any GIS-acquired information in a geodatabase format to be approved by the City. Copies of recorded plats will be in JPG format as outlined elsewhere in these answers. Reports will be delivered in standard Word 2010 or later format unless agreement of a different format is obtained.

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Also, each responder should provide a proposed schedule of incremental deliverables. Weekly reports shall also be provided by the contractor showing all progress and an updated schedule for completion. This report shall be submitted no later than Thursday for the previous week's work.

What is the accuracy standards for collection of x,y,z values (mapping grade or survey grade)?

QUESTIONS FROM:

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Winner of ACEC's 2014 Grand Conceptor Award

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4. What is the accuracy standards for collection of x,y,z values (mapping grade or survey grade)?
 - a. See answer elsewhere in this document.