January 15, 2013

MODIFICATION NUMBER 1
to the
REQUEST FOR PROPOSALS
for the
SIGN INVENTORY DATA COLLECTION SERVICES
Contract #C030797

Dear Interested Party:

Reference is made to the subject solicitation wherein the following changes are hereby incorporated:

1. **The RFP Proposal Due Date has Changed from January 17, 2013 to February 6, 2013, 2:00 PM EST.** Also please note that the Proposal Evaluation period will begin in February 2013.

2. RFP Page 9, Section II.A. Project Objectives, first paragraph: Strike “Further, The Department has made a good faith effort to estimate a budget for this project. Estimated costs were developed using historical information for similar data collection equipment and efforts in New York using typical cost per lane mile averages.” and replace with “Further, while a good faith effort was made to estimate a budget for this project using historical information for similar data collection equipment and efforts, the Department recognizes that there will be a variety of collection methods that might be employed to fulfill the geodatabase contract deliverable. It is anticipated that a contractor may choose to use different collection methods depending on the particularly geography of a specific collection area. The RFP is meant to solicit Best Value proposals for collecting greatest number of high quality sign inventory entrees for the lowest cost.”

3. RFP Page 13, Section III.B. ‘Tasks and Deliverables, first paragraph: Strike Task 2 sentence: “TASK 2 – Two Day Training Class: Sign Inventory Field Data Collection And Management.” And replace with “TASK 2 – Two Day Training Class: Sign Inventory Field Data Collection.”
4. RFP Page 14 Section III.B.1.b.: **Strike** the entire section b. “Spatial Accuracy” and replace with

b. **“Spatial Accuracy”**  
The contractor is requested to collect either a point, or polyline for each asset identified, using the New York State CORS network and Differential GPS techniques resulting in an error in horizontal accuracy, with a confidence of 95%, of one (1) meter or less.

- GPS –minimum of mapping grade
  
  With specifications as follows:

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<thead>
<tr>
<th>Specification</th>
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<tr>
<td>PDOP &lt;= 7</td>
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<tr>
<td>Elevation Mask = 12</td>
</tr>
<tr>
<td>Datum = NAD 83/96</td>
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<td>UTM Zone 18 North</td>
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The Department is aware that collection methods may result in differing accuracy standards.”

5. RFP Page 15, Section III.B.1.f. General Condition Assessment: **Strike** “The Department uses a 9 point rating scale for both sign mounts and sign panels.” and replace with “The Department uses a 9 point rating scale for sign panels and a functioning/nonfunctioning rating for sign mounts.”

6. RFP Page 17, Section III.B.2., first sentence: **Strike** “Two Day Training Class: Sign Inventory Field Data Collection And Management” and replace with “Two Day Training Class: Sign Inventory Field Data Collection.”

7. RFP Page 28, Section V.C.4.f. (Technical Evaluation Section): After “Thoroughness and reliability of quality assurance/quality control procedures” add “including the contractor’s ability to approach or exceed the Department’s spatial accuracy standard.”

8. RFP Page 28, Section V.C.4.f. (Technical Evaluation Section): After subfactor h., add new subfactor i. “Demonstrates understanding of State DOT MPT requirements and provides good approach.”

9. RFP Page 74, Attachment 2 - Consultant Information and Certifications: **Strike** last bullet: “The firm acknowledges that all drivers working on this project will maintain current NYS commercial driver’s licenses.” and replace with “The firm acknowledges that all drivers working on this project will maintain current, valid New York State or other state driver’s licenses.”

The requirement for a commercial driver’s license has been removed from the RFP.

10. After Attachment 12, **ADD** new Attachment 13: Roadway Inventory System, which may be accessed on the NYSDOT website at: [https://www.dot.ny.gov/portal/page/portal/doing-business/opportunities/consult-opportunities#c1225](https://www.dot.ny.gov/portal/page/portal/doing-business/opportunities/consult-opportunities#c1225)

11. After Attachment 13, **ADD** new Attachment 14: Questions and Answers.
All firms are reminded that proposals are due February 6, 2013 at 2:00 PM (New York time).

No other provision of the solicitation is otherwise changed or modified.

A one-page mandatory ACKNOWLEDGEMENT reply is attached. To ensure that your proposal is deemed to be responsive to the RFP, acknowledgement receipt of RFP Modification #1 is required by all firms submitting proposals. Acknowledgement instructions are to be found on RFP Modification #1 page number four. Thank you.
ACKNOWLEDGEMENT OF RECEIPT: MODIFICATION NO. 1
Request For Proposals Contract #C030797
SIGN INVENTORY DATA COLLECTION SERVICES

An authorized representative of your firm or organization must acknowledge receipt and acceptance of this Modification No. 1 by signing and returning one copy of this Modification to the undersigned via inclusion in the Contract Section of your firm’s Part II Cost and Contract Proposal to NYSDOT.

ACKNOWLEDGED AND ACCEPTED:

BY: ______________________________

NYS DEPARTMENT OF TRANSPORTATION

BY: original signed by: Barbara Sonenberg, for

WILLIAM A. HOWE
Director, Contract Management

NAME: ___________________________
TITLE: ___________________________
FIRM: ___________________________
Questions and Answers
Request For Proposals for Contract #C030797
SIGN INVENTORY DATA COLLECTION SERVICES FOR NYSDOT

Question 1: In Section II. A (Project Objectives), the RFP states: “The Department has made a good faith effort to estimate a budget for this project”. Is it possible to get the engineers’ estimate/budget for this project?

Answer 1: No. It is the Department’s practice not to release independent estimates for competitive best value solicitations where cost is a factor in the consultant section process. It is up to the proposing firms to propose competitive cost of these services to the Department.

Question 2: RFP Attachment 2 - Consultant Information and Certifications (Page 74): last bullet states: “The firm acknowledges that all drivers working on this project will maintain current NYS commercial driver’s licenses.” If the vehicles that will be used in the project do not require commercial driver licenses, do the drivers still have to have NY commercial driver’s licenses?

Answer 2: No. The last bullet has been revised to state: “The firm acknowledges that all drivers working on this project will maintain current, valid New York State or other state driver’s licenses.” The requirement for a commercial driver’s license has been removed from the RFP.

Question 3a: In your Criteria for Evaluation of Proposals, are there any points actually awarded for having DBE/MBE/WBE participation?

Answer 3a: No, there are no points involved with reviewing/evaluating MBE/WBE participation (there’s no DBE goal for this RFP). The RFP states the point weight of each evaluation factor and does not assign points for MBE/WBE participation. There is a 20% combined M/WBE goal, and as stated in RFP Section II.B. (Page 10), proposers must make good faith efforts to meet the goals in order to be considered responsive. This includes the responsibility of consultants to make a portion of the work available to M/WBE subcontractors and suppliers and to select those portions of the work or material needs consistent with available M/WBE subcontractors and suppliers so as to facilitate M/WBE participation. Furthermore, the desire or ability of a prime consultant to perform the work with its own organization does not relieve the proposer of the responsibility to make good faith efforts and include M/WBE subconsultants in their proposal. A prime consultant that is an M/WBE must make good faith effort to include M/WBE subconsultants in their proposal.

Question 3b: Do we need both MBE and WBE subs to comprise 20% contract goal?

Answer 3b: The 20% combined M/WBE contract goal may be filled by MBE subs, WBE subs, or a combination of MBE and WBE subs.

Question 3c: If a proposal does not meet the 20% M/WBE requirement, will the proposal still be considered responsive if the proposing entity demonstrates a good faith effort by means of Attachment 7 and an Explanation Letter?
Answer 3c: The proposal will be considered responsive if the proposing entity demonstrates an adequate/acceptable good faith effort by means of Attachment 7 and an Explanation Letter that is subject to NYSDOT review and acceptance (with possible clarifications).

**Question 3d:** If a proposing entity completes Attachment 7, an M/WBE Explanation Letter, and is deemed responsive, will the proposing entity receive a lower score solely because the 20% M/WBE goal requirement is not met?

**Answer 3d:** Meeting M/WBE goal requirements are not scored; the M/WBE submission is a proposal responsive requirement, and M/WBE submissions are reviewed during proposal pre-screening (prior to detailed technical and cost evaluations, both of which are point scored after evaluation).

**Question 4:** Please clarify: RFP Section III.B.1.f. (Page 15) specifically instructs that condition of the sign mount is not to be assessed. One of the attributes listed for collection for the sign mounts is:

- **Attribute:**
  - *Attribute label:* Condition
  - *Attribute alias:* Condition
  - **Attribute definition:**
    - Determination if the support is Functioning or Non-Functioning
  - **Attribute definition source:**
    - dSignSupportCondition

**Answer 4:** The contractor is asked to determine visually if the mount appears to be functioning as designed, and is not broken or bent.

**Question 5a:** In the “Entity and Attribute Information” document listing the data schema there are 3 entries (year installed, substrate and sheeting type) that indicate in the attribute definition “NYSDOT USE ONLY”. Does this indicate that the consultant is not required to populate these attributes and that NYSDOT has that data and will populate them?

**Answer 5a:** Yes it will be NYSDOT’s responsibility to populate these attributes and NYSDOT has that data and will populate them; this is not a requirement of the selected Consultant.

**Question 5b:** Within the SignPanelMetadata there are several attributes that have “NYSDOT USE ONLY” in attribute definition. Can NYSDOT confirm that these attributes are not to be collected by the consultant?

**Answer 5b:** Yes, NYSDOT can confirm that these attributes are not to be collected by the consultant.

**Question 6:** The RFP does not mention whether any data of a “knocked down sign” needs to be collected or not. Do post “stubs” without a sign panel need to be inventoried? Also if a sign panel is on the ground does that panel require addition into the inventory?

**Answer 6:** Yes, post “stubs” without a sign panel need to be inventoried, and a sign panel on the ground requires addition into the inventory.
**Question 7**: RFP Section III.A. (Page 12, fourth paragraph), calls for collecting sign inventory data on the local roads adjacent to the State Highway network. Please clarify by providing specific extent of data collection on the adjacent local road.

**Answer 7**: Sign inventory data collection on adjacent local road shall include all signs within 150 feet from centerline of the State Highway.

**Question 8**: RFP Section III.B.1.a. (Page 13) states: “The project will inventory all Department signs within the State Right of Way, including stop signs and other Department signs on side roads at their intersection with the State Highways. The contract will also document other standard MUTCD signs located on side roads facing the travel direction approaching the state route.” Could you please specify a distance from the intersection on other jurisdiction roadways that are required to be included? Please clarify how many feet in to the side roads will be included in the sign inventory data collection.

**Answer 8**: All signs within 150 feet from the centerline of the State Highway are required to be included.

**Question 9**: Please explain “direction of orientation” (RFP Section III.B.1.c. Page 14). Is this the direction of travel or the direction of the front face of the sign?

**Answer 9**: Per Attachment 9 Sign Panel Metadata: The direction of orientation is the compass direction the sign faces.

**Question 10a**: To what extent must the surroundings of a sign be include in a JPG image? Should the sign panel fill more than 20% of the frame? (RFP Section III.B.1.c. Page 14).

**Answer 10a**: The criteria is sign text legibility.

**Question 10b**: Are there any specifications for file size/resolution of the digital images? File names?

**Answer 10b**: The resolution should be sufficient to ensure that the sign text is legible. The geodatabase accesses images via a hyperlink to a folder where the images are stored. While there is no required naming convention, when the geodatabase and images are delivered to NYSDOT, that path will have to be edited by NYSDOT to reflect the location on NYSDOT servers. A image file structure that is as flat as is practical will make that conversion process simpler.

**Question 10c**: Do the Trimble units used by the Department have built-in cameras? If yes, is the resolution adequate for the Department?

**Answer 10c**: The Department will be using Trimble GeoXT 6000’s which are equipped with a 5 MP camera. These are new to NYSDOT and the Department is still determining its fitness. The business need for this contract is that the text on the signs be legible.

**Question 10d**: Regarding images, the RFP states on page 14 that “All digital images must have the Date Stamp, GPS coordinates and direction of orientation included as part of
the metadata attached to each individual JPEG’s EXIF file.” Should all images be clear (of
the sign or sign assembly only) without this data superimposed on it?

Answer 10d: Yes, all images must be clear.

Question 11: RFP Task 1 (Section III.B.1.d – Page 14) states: “With the likelihood that
NYSDOT staff time will be needed to assist in adapting an interface between the Consultant’s
inventory collection methods and the required geodatabase format, a time estimate should be
provided”. Please clarify.

Answer 11: Based upon the consultant’s expertise, the RFP is asking the Proposer to
estimate the amount of time required for NYSDOT staff to assist in adapting an interface
between the Consultant’s inventory collection methods and the required geodatabase format.

Question 12: Is the “Highway Sufficiency Data” for NYSDOT Region 8 available to
provide detailed roadway geometry information?

Answer 12: Yes, a GIS shape file has been provided as Attachment 13 with
Modification #1 and may be accessed on the NYSDOT website for this project:
https://www.dot.ny.gov/portal/page/portal/doing-business/opportunities/consult-
opportunities#c1225

Question 13: The scope of work does not include delivery or installation of a
computerized or web-based Sign Management System. Does NYSDOT currently have a
Traffic Sign Asset Management system in use? How does NYSDOT currently manage the
electronic traffic sign inventory? Please provide a name and brief description.

Answer 13: NYSDOT is using ArcGIS geodatabases to store and update
the inventory. The sign inventory is being collected and is to be stored in an ArcGIS
geodatabase using the same data schema provided in the attachments. Regional
management of the inventory will continue for the foreseeable future.

Question 14: The RFP does not call for extraction of data into the State GIS Asset
Management system. Please confirm that the consultant is not responsible for integrating the
data into the State GIS Asset management system.

Answer 14: The deliverable is the geodatabase. No integration work with another
is required.

Question 15: Will the Department consider a new and state of the art web-based
Traffic Sign Inventory and Management system, which can be specified by the consultant?

Answer 15: The Department is not considering procuring a new state of the art
web-based Traffic Sign Inventory and Management system at this time.

Question 16: Please provide a list of sign attributes to be collected by the consultant.

Answer 16: See Attachment 9. The Sign Support and Sign Panel documents list
which attributes are to be collected by the contractor and which attributes are reserved
for NYSDOT use only.
**Question 17:** Please confirm the inventory will include both overhead signs, cantilever signs, and pole mounted signs.

**Answer 17:** Yes, NYSDOT is confirming that the inventory will include overhead signs, cantilever signs, and pole mounted signs.

**Question 18:** Please explain what is a “ReferenceMarker” as included as one of the fields in “Signsupport” database.

**Answer 18:** This field is for NYSDOT use only.

**Question 19:** Please explain what is a “LocationSource” as included as one of the fields in “Signsupport” database.

**Answer 19:** This field is for NYSDOT use only.

**Question 20a:** Are mile-markers on the interstates and parkways included?

**Answer 20a:** The mileposts, incorrectly referred to as mile-markers which share a mount with the reference markers and are spaced at 1/10th of a mile intervals, are not included in the scope of work. Refer to RFP Section III.B.1.a. (page 13).

**Question 20b:** Are any specific signs excluded such as General Services (blue) sign panels with or without business logos and rest area, park, and/or scenic area signs? Are green milepost signs included?

**Answer 20b:** Yes General Services are included. Green route reference markers are excluded.

**Question 21:** The RFP states (page 13) that “Temporary Traffic Control Signs (i.e., work zone signs) will be excluded from the inventory. Reference Marker signs will not be collected.” Will NYSDOT require the collection of data for object markers?

**Answer 21:** No, the RFP does not require the collection of data for object markers.

**Question 22a:** In order to collect the data for “Substrate Material” and “Sheeting type”, one may have to stop and examine each sign at close proximity, which is much more labor intensive. Please confirm that NYSDOT wants the consultant to collect these two inventory items.

**Answer 22a:** This field is for NYSDOT use only.

**Question 22b:** Can information be provided as to the sheeting types that are currently known to be in service?

**Answer 22b:** This field is for NYSDOT use only.

**Question 23:** The inventory calls for collection of “Year Installed” data. Does the Department have documentation when each sign was installed? Do the signs have bar code or stickers on the back side?

**Answer 23:** This field is for NYSDOT use only.
**Question 24:** The RFP was developed to comply with the FHWA mandate that the Department have a management method in place to maintain traffic sign retroreflectivity at or above the established minimum levels. TASK 2 is listed as - Two Day Training Class: Sign Inventory Field Data Collection And Management (emphasis added) but the RFP only states (on page 12) that the training will be “in the use of mobile GPS units and the procedures for updating the geodatabase. The purpose of the training is to enable internal NYSDOT staff to maintain the inventory” (emphasis added). Does the Department want the Candidates to propose developing a management process to actually maintain the signs (using the data collected in the inventory), including suggesting the collection of additional data to develop a more efficient management process?

**Answer 24:** The training should be limited to training staff on the use of a Trimble 6000 using Arcpad to check out data, collect field data and check in data to the ArcGIS signs geodatabase.

**Question 25:** Approximately how many NYSDOT staff members are proposed to be trained?

**Answer 25:** Approximately 24 NYSDOT staff members will be trained.

**Question 26:** Will NYSDOT supply all necessary hardware and software resources for training?

**Answer 26:** Yes, NYSDOT will supply all necessary hardware and software resources for training. The Consultant is required to provide a trainer (s) and training material.

**Question 27:** The RFP calls for training of Trimble 6000’s and GeoXT’s. What does the Department currently use these units for?

**Answer 27:** The Department currently uses these units for asset management.

**Question 28:** Are the Trimble 6000’s and GeoXT’s programmed for “data dump” in to the Department’s GIS Asset management system?

**Answer 28:** Using ArcPad on the Trimbles, the ArcGIS geodatabase can be populated and then uploaded to the master signs geodatabase.

**Question 29:** Will the training also include “Retroreflectivity Assessment”?

**Answer 29:** No, the training will not include retroreflectivity assessment.

**Question 30:** Will the training include communication of data between Trimble unit and the Department’s GIS Asset Management System?

**Answer 30:** The training should cover a manual field data collection process using the Arcpad data manager to check out and check in data from the master ArcGIS signs geodatabase.

**Question 31:** Will the Department consider use of iPad in lieu of Trimble units?
Answer 31: No. The selection of field data collection hardware the Department will use is outside of the scope of this contract.

Question 32: If traffic control is needed, will NYSDOT provide the resources such as lane or shoulder closure?
Answer 32: Yes, the RFP requires maintenance and protection of traffic, to be provided by the selected Consultant.

Question 33: Article 11, #8, (Insurance Article – Page 40) refers to a bid deposit. Can NYSDOT confirm that a Bid Deposit is NOT requiring as part of the proposers response?
Answer 33: A Bid Deposit is NOT required.

Question 34a: Do the 95,000 signs include panels that are mounted over travel lanes?
Answer 34a: Yes, the contract includes signs mounted over the travel lanes.

Question 34b: Are bridge-mounted panels, suspended/mounted on span wires and mast arms included? Is so, can an estimated number of panels mounted over travel lanes be provided?
Answer 34b: There are just over 630 overhead sign locations; bridge mounted, cantilever et al, and an order of 1400 signalized intersections that are likely to have signs on the span wires.

Question 34c: Is the Cross-Westchester Expressway between I-87 and I-95 included?
Answer 34c: Yes.

Question 34d: Are Reference routes included? Are State Park roads included?
Answer 34d: A GIS shape file of the roads to be inventory has been supplied. These include reference routes and NYSDOT owned routes that may, like 987C which is the Pallisades Interstate Parkway, run through a State Park.

Question 34e: RFP Section III.B.1.a (Page 13) Schema, first paragraph states: “A sign is comprised of a mount and one of more panels and the geodatabase design supports that asset definition.” Is the proposed estimate of 95,000 signs the actual sign panels or the estimated number of mounts where multiple sign panels can be attached?
Answer 34e: The estimate is for mounts which can have multiple panels attached.

Question 35: Does NYSDOT have an estimated/assumed number of panels per mount? Are crown panels on guide signs considered a separate panel?
Answer 35: NYSDOT does not have an estimated number of panels per mount. The crown panels are considered a separate panel.

Question 36: Are hands-on dimensions required of every sign panel or are estimated dimensions acceptable? This question specifically applies to sign panels above the travel lanes which potentially require multiple lane closures to obtain panel dimensions and height above pavement.
Answer 36: No, Panel dimensions are to be within 6 inches of actual dimensions.
**Question 37:** Panel dimensions are currently to be provided within 6 inches but no such provision is indicated for the height above pavement such as to the nearest foot. Please clarify.

**Answer 37:** Height above pavement should be within 6 inches

**Question 38:** Please provide clarification for the second method of spatial accuracy "Conventional Survey = field book file and the final coordinate output?"

**Answer 38:** The modification to the RFP revised this section to read as follows:

b.  “Spatial Accuracy
The contractor is requested to collect either a point, or polyline for each asset identified, using the New York State CORS network and Differential GPS techniques resulting in an error in horizontal accuracy, with a confidence of 95%, of one (1) meter or less.

- GPS –minimum of mapping grade
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The Department is aware that collection methods may result in differing accuracy standards.”

**Question 39:** Will there be a winter shutdown (i.e., no field work under any circumstances)? If so, how long?

**Answer 39:** A winter shutdown is not planned.

**Question 40:** The scope of work requests a condition assessment of each panel using the Department’s 9 point rating scale plus a retroreflectivity assessment. The RFP states that the "selected Consultant shall use one of the approved methods ... stated in the 2009 MUTCD". The geodatabase contains fields for a visual retroreflectivity rating and sensor readings (legend and background). Is it correct to assume that if a single method is chosen, either the visual rating or sensor readings will be left blank?

**Answer 40:** Yes: once a single method is chosen, then either the visual rating or sensor readings will be left blank.

**Question 41:** Is inspection of the sign required to arrive at the rating?

**Answer 41:** No hands on inspection is required.

**Question 42:** Will the State accept a 90% confidence with an accuracy of 3 meters or less (Higher levels of accuracy require that GPS readings be acquired while stationary versus in motion)?

**Answer 42:** No. The RFP provides the acceptable level of accuracy (RFP section 3.B.1.b)
Question 43: Excessive vegetation, overhanging trees, other canopy cover is known to cause errors in GPS coordinate collection; is this considered part of the 5% that may fall outside 1 meter?

Answer 43: Yes.

Question 44: Are GPS coordinates required at each post supporting one or more panels? Is a polyline only required for overhead span and cantilevered structures? Is a single point acceptable for roadside sign panels with multiple posts?

Answer 44: All signs, in the inventory, subtypes Ground, Overhead and Signal, are to be represented by a single point.

Question 45: Is solar radiation that interferes with GPS point acquisition considered “weather”?

Answer 45: Yes, solar radiation that interferes with GPS point acquisition is considered “weather" as is rain.

Question 46: Which State routes (or sections of State route) have daytime work zone time restrictions; can a table of the time restrictions be provided?

Answer 46: Yes, lane closure charts shall be provided to the selected Consultant.

Question 47: Does prevailing rate apply to this project? If so, how does this apply to GIS staff?

Answer 47: No, this is not a public works project, therefore prevailing wages do not apply. The RFP requests competitively-set rates.

Question 48: RFP Task 2 (Page 17) states, "Deliver Field Collection Devise To Maintain the Sign Inventory. ArcGIS – AcrPad Environment. Start to Finish Instructions on updating the geodatabase using the ArcPad Check in and Check out feature. The department will be using ArcGIS 10.0, Arc Pad 10.0 and Trimble 6000’s and GeoXT’s”.

RFP (Page 21, 3rd paragraph) states, “Note: Training: The Proposer will have access to the Department’s computer training room in Poughkeepsie for the desktop portion of the training. 12 stations with ArcGIS10 will be installed for classroom use. Trimble handheld GPS units for field data collection training will need to be provided for training class if the NYSDOT does not own units at this point”.

RFP (Page 20, middle of the 2nd paragraph) states, “NYSDOT wants to allow maximum flexibility for the inclusion and consideration of ideas, initiative and creativity of the proposer. Alternative tasks and suggestions are encouraged and will be reviewed with interest within the framework of the stated objectives and scope of services for the project”.

Can you clarify if it is required for the proposed solution to employ the use of Trimble handheld units and ArcGIS licensed workstations for office management activity or if a proposer is permitted to propose an “alternative” according to the stated desire to “allow maximum flexibility” while still providing the to the required functionality and ESRI ArcGIS10 geodatabase schema?

Answer 48: The Scope of Services under this contract is divided into two parts, collection and training. The proposer is encouraged to use best available technology (at a
reasonable price) delivers inventory geodatabase and images of legible sign text. The training must use the technology; Trimble handhelds and ArcGIS/ArcPad software that the Department currently owns and supports to maintain the inventory going forward.

**Question 49:** The RFP requirement deliver an ArcGIS 10 geodatabase taken together with the description of the training environment and the reference to ArcPad equipment Trimble field devices implies that NYSDOT is committed to using Arc software exclusively to work with the data provided by the consultant. Can you offer any additional background on the rationale for this implied approach? Are other NYSDOT road assets housed in ArcGIS 10 geodatabases? Does NYSDOT have an extensive set of ArcGIS licenses and ArcPad equipped Trimble devises already in place or part of a broader strategy for roadway asset management activity?

**Answer 49:** The Department is still developing its long range enterprise asset management strategy. At this time, the Department has an enterprise license with ESRI which is being leveraged to collect and maintain regional inventories for various assets including but not limited to; culverts, guiderail, sidewalks, lighting, noise walls, and ITS equipment.

**Question 50:** The proposing entity is not required to be registered as a corporation in the State of New York in order to submit a proposal. Is this correct?

**Answer 50:** If the proposing entity is a corporation in the State of New York, it is required to be registered in the State of New York. However, entities that are incorporated outside of New York state may propose and it is not an RFP requirement that out-of-state-registered firm be registered in NYS.

**Question 51:** Is the proposer required to complete and return Attachment 4 (Consultant Disclosure Legislation Forms A & B) as part the bid?

**Answer 51:** No. The proposer is not required to complete and return Attachment 4, (Consultant Disclosure Legislation Forms A & B) as part of the proposal. However, the designated consultant will be required to complete and submit Form A prior to execution of the contract, and to submit Form B annually.

**Question 52:** Will data collection be completed in both directions on the mileage so that the 2,025 centerline miles would be approximately 4,050 lane miles?

**Answer 52:** The contract requirements include an image of the sign text for every sign. It is an RFP requirement that sign inventory be collected on both sides of the highway right-of-way. A centerline mile is considered complete when the data has been collected for both directions.

**Question 53:** Are retroreflectivity measurements required for each lettering and background component?

**Answer 53:** Yes. MUTCD requirements for retroreflectivity measurements must be met.
Question 54: Roadside sign data collection; what are the minimum requirements? Are survey vehicles allowed to drive slowly on shoulders in rural/lower traffic volume areas with flashers and warning beacons without an attenuator truck?

Answer 54: The contractor is required to adhere to the MUTCD and New York State Vehicle and Traffic (V&T) law.

Question 55: On high-volume roadways with or without shoulders is the Proposer or the State responsible for providing lane closures and equipment/personnel (advance signage, attenuator truck, arrow board, channelizing devices, etc)? If this is the Proposer's responsibility, can additional information be provided as to the roadways that can be assumed to require this type of traffic control to enable Proposers to obtain pricing?

Answer 55: Maintenance and Protection of Traffic, if needed, should comply with the Manual of Uniform Traffic Control Devices (MUTCD).

Question 56: Are there any sections of road that will require traffic control and/or the use of truck mounted traffic control attenuators to perform this contract?

Answer 56: Yes.

Question 57: Is NYSDOT aware of any shoulder mounted signs or sign assemblies that may require the use of a bucket truck to access to collect the required data?

Answer 57: Yes.

Question 58a: Is NYSDOT aware of any DOT signage that falls within railroad right of ways?

Answer 58a: No.

Question 58b: Are railroad regulatory and warning signs to be included in this RFP?

Answer 58b: Yes.

Question 58c: Is NYSDOT aware of any situation that will require the completion of a FHWA Railroad Contractor Safety Training Course to work in or around a railroad right of way?

Answer 58c: No.

Question 59: Is the state interested in a sign management system that is compatible with ESRI ArcGIS 10 geodatabase, ArcPad 10.0 and Trimble 6000’s and GeoXT’s.

Answer 59: Not at this time.

Question 60: Is a sign inventory required for both directions on Project roads even when the provided centerline file maps one direction?

Answer 60: Yes.

Question 61: Are cloverleaf and approaches to project roads included?
**Answer 61:** Yes. Full sign record attribution and front facing photo is required for all MUTCD signs in the DOT right of way even when signage is intended for traffic on non-project roads.

**Question 62:** Is the following a complete list of required attributes?

**Sign Panel:**
- ObjectID key
- Support_ID key
- MUTCDCode Mutcd
- MUTCDDesc mutcd
- MUTCDType Mutcd: Regulatory, Guide, Warning (include street name signs)
  (exclude: S,EM, reference marker signs, assume to be mile markers D10-1, D10-2, D10-3, not object markers)
  (Include?? object markers, school, route markers, emergency management, informational, recreational?)
- SignText Mutcd only
- Width attribute
- Height attribute
- FaceOrientation attribute
- LegendColor attribute
-BackgroundColor attribute
- Condition attribute: 1-9 rating (page 15)
- VisualRetroReflect nighttime A,B,C

**Sign Support:**
- ObjectID
- NoOfPosts attribute:
- PhotoPath
- PhotoImage jpg of sign and surroundings with EXIF: date stamp, GPS, orientation (image or sign?)
- Route
- Side RML, OHR, OHL,
- Breakaway logical YN
- Illumination logical YN
- Height attribute ft
- Offset attribute ft

**Answer 62:** All the information appears in Attachment 9.

**Question 63:** The provided “attributes of Intersection Nodes” layer includes 11,937 locations. Can NYSDOT provide an estimate of how many of these intersections contain signs that are intended for traffic on non-project roads?

**Answer 63:** All of them.