Question 1 - Will there be a required in-person field demonstration of product being submitted per the RFP now due on September 21st, 2020. Therefore, will there be a requirement of such an in-person demonstration after September 21st? And has there been a time that is being investigated, obviously with COVID-19 unsure whether that time period will be?

NYSDOT’s Response: A technical demonstration is part of the evaluation process whereby vendors can demonstrate the technical demonstration factors. This will most likely not be in person but remote. Vendors can decide how best to demonstrate these factors. Attachment 18 provides a suggested field survey to demonstrate the required factors. Vendors could make use of a similar site to demonstrate the same functions/workflow. Vendors could choose to demonstrate these functions in recorded videos which could be reviewed during a WebEx presentation. It is anticipated that Technical Demonstrations will occur in Mid/late October 2020.

Question 2 – After the 5-year term of the contract. will NYS DOT return the equipment or will NYS DOT retain this equipment?

NYSDOT’s Response: In accordance with RFP, Pg 94, Attachment 14: Scope of Services/Detailed task descriptions, Task 4: At the end of this contract, all instruments, data collectors, tripods, prisms, prism poles and leveling staffs included in the Survey Equipment Packages will be returned to the vendor. NYSDOT will collect the equipment at a single location within NYS for the vendor to pick up.

Question 3 – RFP Modification #1 dated August 11, 2020, Attachment 17: Deliverables Requirement Table, Requirement #65 – This requirement is deleted in its entirety. Requirement #126 (the radio modem shall be capable of operating as a base, rover or repeater and capable of a range of at least 2 miles) is identical to #65. Should this be deleted?
NYSDOT’s Response: The base/rover and range requirement remains in Requirement #126 - (The radio modem shall be capable of operating as a base/rover and capable of a range of at least 2 miles. This will be addressed via formal modification.

Question 4 –RFP Document Section 3.1 within Project and Contract Objectives:
- download, edit, process and adjust data that can be transferred into the Department’s CADD software, Bentley Microstation/InRoads Survey (Select Series 10, and Open Roads Designer) as well as Autodesk Civil 3D, hereafter referred to as the Department’s CADD Software (subject to possible change) (This is also covered in sections of requirement 16 – Deliverable Requirement Table).

(Q) Can NYSDOT provide a reference document or process related to the following current processes. And, or provide a higher level of detail on the following item on processing file formats and workflow information as each software package?

NYSDOT’s Response:
After processing/adjusting/editing all survey data in the processing software required of this RFP, all data needs to be transferred to the departments CADD software including points, lines, observations, images, traverses, feature coding, attributes. We are currently using xml format to transfer this data, or the vendors project database file format directly into Microstation/InRoads. NYSDOT CADD standards can be found here: https://www.dot.ny.gov/divisions/engineering/design/dqab/hdm/chapter-20

Question 5 - Item 59 within the GNSS Receiver Requirements:
- … GNSS rovers shall include a GSM modem for connecting to the Verizon Wireless Network and the NYSNet CORS/RTN and shall be capable of using RTCM Version 3 MAC Network RTK (NRTK) corrections.

(Q) Verizon communicates outline via CDMA format(s) traditionally and GSM is covered per the following carriers traditionally: AT&T, Sprint, etc. See reference as Verizon is typically referenced as ‘CDMA’ and AT&T, Sprint, etc. are usually referenced as GSM in the US Market(s).

Can NYSDOT verify the cell format requested?

NYSDOT’s Response:
The reference to GSM should be changed to LTE. This will be addressed via formal modification.

Question 6 –Item 59 within the GNSS Receiver Requirements:
- … GNSS rovers shall include a GSM modem for connecting to the Verizon Wireless Network and the NYSNet CORS/RTN and shall be capable of using RTCM Version 3 MAC Network RTK (NRTK) corrections.

(Q) Is there an option to offer cell communication via the data collector vs. the GNSS receiver to offer either GSM or CDMA Communication?
**NYSDOT’s Response:** Yes, as discussed in the pre-proposal webinar, vendor could offer this cell communication through the data collector. Communication should be LTE as clarified in question 5 and will be address via formal modification.

**Question 7** – Item 92 within the GNSS Receiver Requirements:
- When data is deleted using an external controller or PC, the files shall be recoverable at a later date if the memory has not been used for storage of new data. The reuse of data storage used by previously deleted files shall be on a first in first out basis. The system shall never automatically delete files

(Q) Can the NYSDOT confirm and clarify the following statement(s) as it provides language of removing and/or deleting. And then offers additional language about recovery of deleted files.

**NYSDOT’s Response:** Requirement 92 within the GNSS Receiver Requirements will be deleted in its entirety via formal modification.

**Question 8** – Item 99 within the GNSS Receiver Requirements:
- Dual RS232 ports for serial input/output and data collector control.

(Q) If GNSS receivers not offering communication via RS232 connection cable(s). Would it be possible to remove this requirement? If not, please provide a technical reference for the required functionality keeping the RS232 requirement(s). Or, could this also be covered via a Lemo connection to the GNSS receiver(s)?

**NYSDOT’s Response:** Requirement 99 within the GNSS Receiver Requirements will be corrected to read Port(s) for wired connection input/output and data collector control, via formal modification.

**Question 9** - Item 101 within the GNSS Receiver Requirements:
- At least one (1) Bluetooth port

(Q) Is this requirement a virtual BT port requirement or hardware BT requirement within the GNSS receiver?

**NYSDOT’s Response:** Virtual BT Port.

**Question 10** – Item 124 within the GNSS Receiver Requirements:
- Per RFP SECTION 3.2.1: Each GNSS receiver shall be supplied with an integrated or modular GSM modem capable of connection to the Verizon data network in NYS. Modems will be activated on the Verizon network by NYSDOT. NYSDOT will be responsible for the monthly activation fees. An external antenna shall be included for the cellular modem.

(Q) Please clarify if the NYSDOT would like to use the GSM or CDMA communication via the GNSS receiver or within the data collector that will be controlling the GNSS receiver for field survey work activities or both.
NYSDOT’s Response: As discussed in the pre-proposal webinar providing the cellular connection through the data collector is acceptable. This should be LTE as clarified in answer to question 5 and will be addressed via formal modification.

Question 11 – Item 150 within the GNSS Receiver Requirements:
- RS232 9-pin serial port
(Q) Per the earlier question. Can NYSDOT please clarify the following requestion(s) about the RS232 items?

NYSDOT’s Response: Item 150 within the GNSS Receiver Requirements will be changed to read “Port for wired connection” and will be addressed via formal modification.

Question 12:
Per: Attachment 18 – Transfer Data to Microstation/InRoads
- Item 34: Transfer data to Microstation/InRoads
(Q) Will a NYSDOT representative process the collected data into InRoads or will you require the vendor to demonstrate this operation within InRoads?

NYSDOT’s Response: NYSDOT requires the Vendor to demonstrate the data transfer.

Question 13:
Per: Attachment 18: Information Regarding Technical Demonstration
- Item 38: View Map including linework, feature coding, attributes
(Q) Is it possible for the NYSDOT supply the most recent and most updated field code list? Or, make reference to the section that within the NYSDOT Standards for download. If possible, please supply this in an MS Excel format with all the required fields and settings.

NYSDOT’s Response: Attached an MS Excel list of Codes and Descriptions. Codes, Attributes, Symbology Styles etc, can be accessed/reported within Microstation/InRoads by loading the NYSDOT CADD settings found here: https://www.dot.ny.gov/main/business-center/engineering/cadd-info

Question 14 – Schedule – Dates and Deadlines:
(Q) Is there currently a demonstration period within the timeline that is published to present the required items within the RFP outlined by the NYSDOT?

Please note the following Dates and Deadlines:
- July 30, 2020: RFP Released
- August 10, 2020: Pre-Proposal webinar @ 11:00 AM (EST)
- August 13, 2020: Deadline for submission of questions about the RFP at 12:00 p.m. (Eastern Time)
- August 21, 2020: Responses to Questions Published
- September 14, 2020: Deadline for submission of Proposals at 12:00 p.m. (EST)

NYSDOT’s Response: Please see response to Question #1.

Question 15 – Schedule and Proposal Submission
Can the NYSDOT provide a step by step process definition per NYSDOT Standards for the items related to ‘processing field collected data’ for field collected total station work, GNSS, etc.? If this currently available, please provide reference manual and/or download link and section number within the standards manual?

NYSDOT’s Response:

Processing field collected data includes:

Total Station

- Applying observation corrections to total station data, geometric (combined ellipsoidal/elevation) for state plane coordinate systems, and atmospheric (temperature/barometric pressure)
- Creating/adjusting traverses, using compass rule.
- Editing/verifying survey data observations including terrain

Digital Level

- Checking, editing, combining, splitting level lines
- Adjusting level lines

GNSS

- Process, edit, adjust GNSS observations
- Analyze averaging of repeat RTK observations,
- Process/analyze and adjust static GNSS observations

Laser Scanner

- Processing/analyzing point clouds
- Registering point clouds, cloud to cloud and to control
- Extract points/lines to supplement survey data

All Survey Data

- Combine/adjust all data
- Transfer all data (points, lines, observations, images, traverses, point clouds, feature coding, attributes) to the departments CADD software. Using format that transfers all those data types, xml or vendors proprietary format.

Land Surveying Standards and Procedures Manual: