Questions and Answers

Question 1: What access and restrictions to access at the transformer yard are anticipated?

Answer: Access along 12th avenue will be provided by the removal of the pre-cast concrete wall. Sidewalk permits will be required if the contractor needs to use equipment outside the property line. 12th Avenue permits require NYSDOT & NYCDOT approval for work on 12th Avenue. The Upper & Lower Truck ramps will remain active as the Javits Center will remain operational during construction. The contractor will need to coordinate its schedule with the Javits show schedule for any activities that impact tuck access into the facility.

Question 2: What is the laydown area?

Answer: Please review proposed phasing documents in Appendix G. The laydown area is to be proposed by the contractor and will require approval by the Construction Manager and Javits staff.

Question 3: If we drill shafts, do the ramps need to stay open?

Answer: The ramps must remain open due to truck activity in and out of the Javits Center. Drilling must be coordinated with the Construction Manager and Javits staff so that drilling may be completed when traffic is light and can be rerouted if need be.

Question 4: Is nighttime work permissible?

Answer: Requests for nighttime work may be submitted by the contractor; however please note that the building is operational 24 hours a day, 7 days a week and will require coordination with events at the Javits Center.

Question 5: Is there drilling involved with phase 2 foundation work?

Answer: No.

Question 6: What utilities are located at the site?

Answer: See Contract Civil drawings for location of existing known utilities.

Question 7: Will there be a pre-bid conference?

Answer: No.

Question 8: Please provide details on the required lateral load test such as the lateral test load.

Answer: The caisson lateral load test is specified in spec 316326, which was included with the RFP. The reference procedure is documented in ASTM D3966 and NYCBC Section 1808.4.3.

Question 9: Can you provide us with a project schedule for this contract?

Answer: See Rider A of the RFP, Section E.

ADDITIONAL Questions and Answers—Updated 9/28/16

Question 1: RFP Scope Item B. II 4, states that we shall remove all remaining structures. Does that include the demolition of the existing fire pump room/equipment and related above ground equipment including the utility capping as required?

Answer: No. The fire pump structure will be removed by the Selective Demolition Contractor and the equipment will be removed and capped by the Fire Suppression Contractor. See alternate #4 Rider C with request to provide pricing for this scope and other related demolition.

Question 2: Although Scope Item B. II 4e. indicates removal of underground petroleum storage tanks etc., we cannot locate these on the contract drawings. Please advise.

Answer: Refer to Appendix I Transformer Building Drawings dated August 12, 2016 C-100

Question 3: The RFP establishes subcontracting goals of 15% MBE, 15% WBE and 6% SDVOB. It also discusses liquidated damages if the Contractor fails to comply with "good faith efforts." This contract, however, involves specialized construction (large diameter caissons) as well as excavation/foundation work (which we self-perform). Accordingly, the only available avenues for subcontracting will be rebar installation and trucking/disposal (the value of which is yet to be determined but will be significantly less than the stated goals), both of which will be offered to qualified MBE/WBE/SDVOB firms. Accordingly, will a waiver be considered to reduce the goals to something more achievable based on the value of subcontracting available?

Answer: A goal reduction may be considered at the time of contracting. Please be sure to provide the Office of Contractor and Supplier Diversity with a detailed scope of work as soon as possible so that goals can be properly assessed.

Question 4: "In the document "Appendix B - Rider A" on page 22 of 31, Section 5a (see below for section), the scope discusses performing CSL testing and IRS testing if the Contractor utilizes a caisson design that does not utilize a structural steel core:

> "5. Quality Assurance and Control
> a. In the event this Contractor utilizes a caisson design that does not require a structural steel core, this Contractor at its sole cost shall inspect these caissons utilizing Cross Sonic Log Testing (CSL) and Impulse Response Spectrum (IRS) to assure satisfactory concrete placement. All cost associated with CSL and IRS testing including testing tubes embedded in caissons, equipments, personnel, reports, analysis, and associated items are included in the Contract Price. The following firm is acceptable to perform this testing program: STS Consultants, 750 Corporate Woods Parkway, Vernon Hills, IL 60061, Tel (847) 279-2500. The Contractor may select other firms capable of performing the CSL test subject to approval by the Geotechnical Engineer of Record."

The current contract drawings issued in the official RFP specify a caisson design with reinforcement cages (12 #11-vertical bars and ties). Please advise if this testing is actually required, because it is not mentioned in the specifications, has not been recommended in the geotechnical engineering reports, and the base reinforcing design is a reinforcement cage, not a core beam.

Answer: This is not required.

Question 5: Appendix B, Rider "A", item (f), on page 21 of 31 states that "Pilot borings will be provided by others in advance and concurrent with the work of this Contractor to determine rock elevation and quality more precisely." Drilled Caisson spec items (see below) states that video inspection is not required if pilot borings are performed determining rock quality. Based on the scope the rock quality should be determined by the pilot borings performed by others. **Please advise if camera video inspection is still required despite the pilot borings performed by others.**

> (316326 – 8/9) Section 1.15.A.8 - If video inspection is not possible, the Contractor shall provide other means to allow the Special Inspector to assess the rock socket (i.e., borings, geophysical methods, etc). Alternative means to verify rock sockets shall be subject to the approval of the Owner's Engineer.

> (316326 – 13)Section 3.2.G - Down-hole digital video camera shall be performed by the Contractor to allow inspection of the rock socket by the Special Inspector. Caissons shall be flushed with clean water to remove sediment so that the side walls and bottom of the rock socket can be video inspected. Where conditions prevent the use of down-hole video, the Contractor shall provide alternative means to establish the quality of rock within caissons including but not limited to drilling of test borings with rock coring and associated geophysical testing. Where borings are to be utilized in lieu of down-hole video, such borings shall be performed in accordance with Section 023213, and shall be taken prior to full scale caisson drilling (at the center axis of the element).

Answer: There appears to be a misunderstanding with respect to terminology. "Pilot borings" are typically used as a guide or template maintaining the alignment of a larger diameter borehole – such as drilling a 12" diameter hole to guide a 60" diameter cluster drill. Exploratory borings, as outlined in Section 023213 of the project specifications, to verify rock quality do not constitute a pilot boring. Exploratory test borings were not completed at each caisson and will not be performed by Owner for Contractor's use. The contractor shall be fully responsible for verifying quality of rock as outlined in the project specifications.

Question 6: Per Appendix B, Rider "A", Item 5b. "Phase Two: Installation of Grade Beam and Slab on Grade- The Contractor shall be prepared to complete all field installation starting on or about November 6, 2018 in Six (6) weeks or at a later date if required by the progress of other trades at no additional cost. " Whereas per Appendix "G" Phasing Plan, the foundations phase starts in December of 2016 and Superstructure Phase starts in April 2017. Superstructure cannot without the installation of grade

beams. Please advise when Phase Two: Installation of Grade Beam and Slab on Grade will begin and confirm that the maximum duration is (6) weeks.

Answer: The documents regarding schedule are accurate, it has been confirm by EOR that Superstructure can proceed without Grade Beams.

Yes maximum duration is (6) weeks for installation.

Question 7: Please confirm that pilot holes in rock is not required if the full size rock socket verticality is monitored in minimum intervals of 15' according to Spec item 316326-11-2.7.

Answer: Confirmed. Pilot holes are not required.

Question 8: Please confirm that monitoring of the Lincoln Tunnel tube is only required during the Caisson Drilling Phase and not during the Grade beam and Slab on Grade Phase.

Answer: Monitoring will be required during the Grade Beam and Slab on Grade Phase.

Question 9: Please advise if the concrete around the columns at Level 1 elevation is excluded in the foundation package.

Answer: Correct, the concrete at the level 1 column is NOT included in Foundation Package, it will be performed by others.

Question 10: Please advise if Contractor is to provide, or shall be back-charged for the cost of, Site Safety Manager and Labor Foreman coverage for caisson drilling operations outside the weekday hours of 7:00am to 3:30pm.

Answer: Yes

Question 11: Please advise if the isolation casing can be suspended in place using Contractor's means and methods in lieu of welding the isolation casing to ring plates attached to the caisson cage as shown on drawing FO-300.

Answer: Alternate means and methods may be acceptable, but are subject to review and approval by the Owner's Engineer.

Question 12: Please clarify which party is responsible for providing a Teamster Foreman.

Answer: The Teamster Foreman is not required for this project.

Question 13: Please clarify who is responsible for filing for and installing the construction fence shown on *Appendix "G" Phasing Plan – Demolition and Foundation Start December 2016*.

Answer: The Construction Manager will be installing the fence.

Question 14: The construction fence shown on *Appendix "G" Phasing Plan – Demolition and Foundation* shows that the two (2) east-most caissons, and connecting caps and grade beams, fall outside of the construction fence. Please advise if the Foundation & Drilling Contractor is responsible to install and remove a temporary fence around the work area (and equipment and spoil stockpile storage) until the caissons and grade beams are complete.

Answer: Yes any modifications to the in place temporary work fence will be responsibility of the Foundation Contractor. The site must remain contained at the end of each working day.

Question 15: Please advise when the 100'x200' Construction Yard shown on *Appendix "G" Phasing Plan – Super Structure Start April 2017* will be installed and by whom. Additionally, since it seems that the installation of that fence overlaps with the Excv/Foundation phase of the project, please advise if the Excv/Foundation Contractor may use that space as lay-down and storage before the Super Structure contractors mobilize.

Answer: The space is currently being used by the facility and may come available during the Foundation Phase of work. Please demonstrate in your bid on a logistics plan how much square footage is required to complete your work.

Question 16: Please clarify that the existing slab on grade below the new TX building footprint will be chopped and removed as part of the excavation phase.

Answer: Yes the foundation contractor will be required to remove the existing slab and earth in this area.

Question 17: Appendix B, Rider "A", item (1a), on page 21 of 31 states "Work include stainless steel rebar,….". No stainless steel rebar is called out on drawings and specifications. Please clarify that none of the foundation and SOG slab requires stainless steel rebar.

Answer: There is no stainless steel rebar.

Question 18: Appendix B, Rider "A", item (C4), on page 28 of 31 states that "Disposal of hazardous material, contaminated material, and petroleum contaminated waste" is excluded from the contract. Given that the excavation is unclassified, and that no soil analyticals are provided, please clarify if Contractor is to price the excavated soil and caissons spoils as meeting NYS unrestricted use classification and then submit a change order if the soil and spoils is found to be contaminated above NYS unrestricted.

Answer: Yes, all cost related to contaminated soil disposal will be handled as a change order.

Question 19: Please advise if a temporary casing, larger in diameter than the permanent casing, can be installed below cut-off elevation if:

a. Temp casing is removed by placing wet-flow fill between the temp and permanent casing and then extracting the temp casing.

b. Temp casing remains in place and is cut-off below the cap elevation. In this case the space between the temp casing and permanent casing will be filled with 6,000psi concrete.

Answer: In concept, we take no exception to the methods indicated; however, final approval for the use of temporary casing shall be subject to review by the Owner's Engineer based on the specific means and methods indicated on the Contractor's shop drawings and/or method statement.

Question 20: Please advise if existing light pole over the North-Center caisson will be removed by others to facilitate drilling and foundation work.

Answer: Yes.

Question 21: Please clarify if all sidewalks, curbs and steel facing, and the large proposed 7" concrete area South of the new TX building shown on C-200 are provided by the Foundation Contractor.

Answer: Yes, please include in the foundation bid.

Question 22: Please clarify if the structural slabs below the exterior North and South stairs shown on C-300 are provided by the Foundation Contractor.

Answer: Yes, please include in the foundation bid.

Question 23: Please confirm that all excavation for new manholes and splice chambers around the new TX building is excluded in this Excv/Foundation contract.

Answer: Yes, foundation bidder to exclude all new manholes and splice chambers.

Question 24: Please advise if the Foundation Contractor is responsible to replace the 2'-6" wide curb and patch the existing concrete pavement as shown in detail 7 on drawing FO-302.

Answer: No, all sidewalks will be provided by others.

Question 25: Please clarify if the Foundation Contractor is responsible to install the built-up slab and compacted fill shown on detail 8 on drawing FO-302.

Answer: Yes, Foundation Contractor Bidder to include built-up slab.

Question 26: Please clarify the following note on drawing FO-101 by providing the exact extents of the existing transformer equipment and the existing transformer foundation area that will remain after the first phase of demo (start of caisson phase) so that bidders can determine equipment and site logistics, determine which grade beams can be installed in the first phase, and determine extents of underpinning and SOE. Also please clarify when Foundation contractor will need to come-back to install the remaining grade beams and slab West of column line A5. Per drawing FO-101, it appears that only the existing foundation that remains is locally at the fire-pump room. The temporarily remaining extents of existing transformer area foundations outside the fire pump room is not clear.

CONSTRUCTION PHASE SEISMIC TIE PLAN:

IT IS ANTICIPATED THAT THE CONSTRUCTION PHASING WILL REQUIRE THAT THE BUILDING

BE OCCUPIED FOR THE PURPOSE OF INSTALLING AND COMMISSIONING THE NEW

TRANSFORMER YARD AT LEVEL 3 BEFORE DEMOLITION OF THE EXISTING TRANSFORMER

YARD IS COMPLETED. IN THIS INTERIM TIME PERIOD IT IS EXPECTED THAT THE

PERMANENT SEISMIC TIE BEAMS (GB60X16) WILL BE INSTALLED EXCEPT FOR THE GRADE

BEAMS ALONG GRID a0 AND ALONG GRID 1350 FROM a0 AND A5 WILL NOT BE INSTALLED.

DURING THIS PHASE IT WILL BE REQUIRED TO MAINTAIN THE EXISTING FOUNDATIONS

ALONG GRID a0 AND TIE THEM INTO THE NEW CAISSONS AT a0/1350 AND a0/1420 AS

SHOWN IN THIS PLAN. THE EXISTING FOUNDATIONS SHALL NOT BE REMOVED UNTIL THE

POINT IN THE CONSTRUCTION SCHEDULE THAT THE EXISTING TRANSFORMER YARD IS

DEMOLISHED AND THE PERMANENT GRADE BEAMS AND LEVEL 1 SLAB ARE INSTALLED

AS SHOWN IN 1/F0-101.

Answer: All equipment shown in the documents will remain and grade beams and slab on grade will be installed in phase two.

Question 27: Please clarify if any pile caps or grade beams are to be poured in the six (6) week Phase One: Installation of Caissons phase stated in item 5a on page 31 of 31 on Appendix B-Rider 'A'.

Answer: All Pile Caps are required in phase one. All grade beam that are not in conflict with existing equipment should be installed in phase one**.**

Question 28: Many of the requested unit prices do not apply to this project. Please advise if the ones not applicable do not need to be priced.

Answer: Provide unit pricing applicable to project.

Question 29: For purposes of accurately providing a schedule and pricing Alternates 1 and 2 please advise when exploratory borings by others will be performed relative to start of caisson phase.

Answer: Exploratory borings for PANYNJ are the responsibility of the Foundation/Casisson Bidder. All other borings performed by others have been documented in the Geotechnical Report in Appendix H.