MTA CONSTRUCTION & DEVELOPMENT COMPANY, acting on behalf of the METROPOLITAN TRANSPORTATION AUTHORITY and METRO-NORTH COMMUTER RAILROAD COMPANY,

A PUBLIC BENEFIT CORPORATION OF THE STATE OF NEW YORK

IFB No. 142486

STRATEGIC FACILITIES PROGRAM: CROTON FALLS PARKING LOT (PACKAGE NO. 2)

ADDENDUM No. 01

July 27, 2021

The following constitutes Addendum No. 01 issued for IFB No. 1142486 dated **June 17, 2021.** Each prospective bidder shall acknowledge receipt of this Addendum in the submitted Bid. A copy of this Addendum shall be returned with your bid.

You are hereby informed of the following changes in the above referenced IFB:

I. In Technical Specifications:

Delete the following Specification Section and replace it in its entirety with the listed revised Specification Section, which is attached hereto:

Delete the following Sections:	Replace with the following Sections, attached to this Addendum:
33 11 13 Non-Potable Supply Wells	33 11 13 Non-Potable Supply Wells Revision 1

II. Prospective Bidders' Questions and MTA Responses:

Below are questions and/or requests for clarifications from prospective bidders and the MTA's responses. The questions are restated for convenience only and are not part of the MTA's responses. The MTA's responses do not modify the provisions of the Contract. The MTA's responses are intended merely to identify relevant Contract provisions and clarify any perceived ambiguities. In the event of an inconsistency, the Contract Documents, including any revisions incorporated by addendum, take precedence over the MTA's responses.

Question #1: The contract provides EVSE (Electric Vehicle Service Equipment) specs and requirements, however no payment modules were included in the specs to go with the EVSE. Please confirm if payment modules are required with the EVSE, and who will be furnishing and installing them.

Answer 1:Payment modules are required with the EVSE and will be installed in the EVSE by EVConnect. The Contractor shall contact EVConnect for pricing, purchasing, and coordinating delivery of approved EVSE.

The EVConnect contact information is as follows:

David Hughes
Email: david@evconnect.com
Tel: (310) 251-8276

Question #2: The specifications reference an Engineer's Field Office but there does not seem to be any further details. Please provide the requirements for the Engineer's Field Office.

Answer 2: There are no contractual requirements for a field office.

Question #3: Please issue the site tour attendance list of contractors.

Answer 3: List was transmitted on July 13, 2021

Question #4: It was stated that the permanent sidewalk work along Croton Falls Road is to be given out as a separate contract to this one. Please issue new plans to show the delineation between this contract and the contract for the sidewalk work.

Answer 4: Work items and the delineation between this Contract (Parking Lot Construction Contract #142486) and the contract for the permanent sidewalk work (Permanent Sidewalk SBMP Construction Contract #142487 to be solicited separately) are shown on contract drawings G-102, C-001, C-221, C-402, C-503, C-610, C-611, and E-301. Work items to be performed under the sidewalk contract are indicated on the drawings by the notation "contract #142487" or "by others". In addition, please refer to the **Construction Sequencing Plans CS-101 through CS-103** for work zones identification.

Question #5: Will the separate sidewalk contract include the roadway work and the pavement markings along Croton Falls Road and the intersection with Rt.202?

Answer 5: No. The roadway work and pavement markings along Croton Falls Road and the intersection with Rt.202 shall be performed under this Contract #142486.

Question #6: Will the separate sidewalk contract include the new signals and lighting along Croton Falls Road and the intersection with Rt.202?

Answer 6: The Permanent Sidewalk contract shall include some lighting along the east side of Croton Falls Road (shown for reference on E-302). Lighting along the east side of Croton Falls Road and shown on E-301 is included in this Contract (#142486). Lighting at the intersection of Croton Falls Road and Route 202 is included in this Contract (#142486). The Permanent Sidewalk contract shall not include new

signals at the intersection of Croton Falls Road and Rt.202. All signal work at the intersection with Rt.202 shall be performed as part of this Contract (#142486).

Question #7: The MTA requires bids to be submitted in the A+B Format. Please provide a sample of the A+B Bid format.

Answer 7: A sample of the A+B Bidding format has been issued as part of the Bid Package. See Paragraph 14 "AWARD PROCEDURE" on Page 12 of the Information for Bidders section of the Contract.

Question #8: During the site visit, it was mentioned that the current demolition contractor will be backfilling the ground openings where structures were recently demolished. Will compaction be performed by the demolition contractor?

Answer 8: The Demolition contractor will backfill the basement openings where structures were removed, and will perform compaction in those locations, as part of the backfilling activities. As a result, the Parking Lot Construction contractor (contract #142486) shall not disturb locations which were backfilled and compacted by others, unless required for subsurface work and/or grading. If previously backfilled and compacted locations are disturbed, the Parking Lot Construction contractor (under contract #142486) shall perform backfilling and compaction in the disturbed areas to satisfy design requirements.

Question #9: The contract documents identify trees to be removed. Are there any tree removal moratoriums which may affect tree removal activities?

Answer 9: The contractor shall conform to the yearly New York State moratorium which is set in place for tree removal as follows:

- Tree clearing **SHOULD** occur between November through March when the bats are in hibernation
- Tree clearing **SHOULD NOT** occur between April and October when the bats are actively roosting in trees, mating, and bearing their young.

The contractor shall verify and confirm exact dates when the moratorium is in effect prior to scheduling and performing tree removal activities.

Question #10: The scope is unclear. Section 33 11 13 page 505 refers to screens and gravel pack but drawings refer to installing a pump in existing well.

Answer 10: See Specification Section 33 11 13 Rev 1, revised via this Addendum. The existing pump has been removed by MNR and the existing casing was kept. A new pump shall be installed in existing casing.

Question 11: Under execution it asks the pump installer to check if the pump can be installed and if not correct the alignment problem. You can't straighten a well. We can't be responsible for the straightness of an existing well.

Answer 11: See Specification Section 33 11 13 Rev 1. The requirement has been deleted.

Question 12: Install pump near bottom of the well…. Which is how deep? What information is available on existing well to be reused?

Answer 12: For the purpose of formulating your bid, the well is assumed to be about 280' deep**.**

Question 13: What water analysis is required for a NON potable well?

Answer 13: Per the Westchester County Department of Health, there are no water testing requirements for a non-potable water well. Refer to PL-001 General Note #7. Contractor shall confirm with Westchester County.

Question 14: What well is being sealed? What is the depth and diameter of the well? NY should have.

Answer 14: See drawing C-101 for the well to be filled in and sealed. The diameter of the well is 4 inches and it is approximately 280ft deep. The well was decommissioned by MNR. Demolish the first 3 feet of the well vault walls below proposed grade, backfill, and compact the vault. The Vault size 8ft x 8ft x 8ft.

Attachment : Specification Section 33 11 13 Revision 1

All other information included in the IFB remains the same.

END OF ADDENDUM No. 01

SECTION – 33 11 13

NON-POTABLE WATER SUPPLY WELLS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:

1. Submersible well pump.

1.03 DEFINITIONS

A. ABS: Acrylonitrile-butadiene-styrene plastic.

B. PA: Polyamide (nylon) plastic.

C. PE: Polyethylene plastic.

D. PP: Polypropylene plastic.

1.04 ACTION SUBMITTALS

A. Product Data: Submit certified performance curve and rated capacity of selected well pump and furnished specialties and accessories.

B. Shop Drawings: For well pump. Show layout and connections.

1. Include diagrams for power, signal, and control wiring.

2. Setting Drawings: Include templates and directions for installing foundation bolts, anchor bolts, and other anchorages.

1.05 INFORMATIONAL SUBMITTALS

A. Field Quality-Control Reports:

1. For well pump, include the following:

a. Existing Water levels.

b. Laboratory water analysis.

c. Well-screen analysis.

d. Performance test data.

1.06 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: Include in emergency, operation, and maintenance manuals.

PART 2 – PRODUCTS

2.01 SYSTEM DESCRIPTION

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. Comply with AWWA A100 for water supply wells.

C. Pitless Adapter: Fitting, of shape required to fit onto casing, with waterproof seals.

2.02 GROUT

A. Cement: ASTM C150/C150M, Type II.

B. Aggregates: ASTM C33/C33M, fine and coarse grades.

C. Water: Non-potable.

PUMP ACCESSORIES:

A. Compression Tanks: Precharged butyl rubber diaphragm, steel shell, fused polymeric lining, and 100-psig (690-kPa) working pressure.

B. Pressure Switches: For pump control; for installation in piping.

C. Water Piping: ASTM A53/A53M, Schedule 40, galvanized-steel pipe with threaded ends.

1. Cast-Iron Fittings: ASME B16.4, threaded, galvanized.

2.04 SUBMERSIBLE WELL PUMPS

A. Description: Submersible, vertical-turbine well pump.

B. Standards: HI 2.1-2.2 and HI 2.3.

C. Impeller Material: Stainless steel.

D. Motor: Capable of continuous operation under water, with protected submersible power cable.

E. Column Pipe: ASTM A53/A53M, Schedule 40, galvanized-steel pipe with threaded ends and cast-iron or steel threaded couplings.

F. Discharge Piping: ASTM D2239, SIDR Numbers 5.3, 7, or 9 PE pipe; made with PE compound number required to give pressure rating not less than 160 psig.

1. Insert Fittings for PE Pipe: ASTM D2609, made of PA, PP, or PVC with serrated, male insert ends matching inside of pipe. Include bands or crimp rings.

G. Capacities and Characteristics:

1. Refer to drawings for Pump Schedule.

2.05 MOTORS

A. Comply with NEMA designation, temperature rating, service factor, and efficiency requirements for motors specified in Section 22 05 13 "Common Motor Requirements for Plumbing Equipment."

1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so

driven load will not require motor to operate in service factor range above 1.0.

2. Controllers, Electrical Devices, and Wiring: Electrical devices and connections are specified in electrical Sections.

PART 3 – EXECUTION

A. Install submersible well pumps according to HI 2.4 and provide access for periodic maintenance.

1. Before lowering permanent pump into well, lower a dummy pump that is slightly longer and wider than permanent pump to determine that permanent pump can be installed.

2. Before lowering permanent pump into well, start pump to verify correct rotation.

3. Securely tighten discharge piping joints.

Connect motor to submersible pump and locate near well bottom.

a. Connect power cable while connection points are dry and undamaged.

b. Do not damage power cable during installation; use cable clamps that do not have sharp edges.

c. Install water-sealed surface plate that will support pump and piping.

3.02 CONNECTIONS

A. Piping installation requirements are specified in Section 22 11 13 "Facility Water Distribution Piping." Drawings indicate general arrangement of piping, fittings, and specialties.

1. Connect piping between well pump and water piping.

B. Ground equipment according to Section 26 05 26 "Grounding and Bonding for Electrical Systems."

C. Connect wiring according to Section 26 05 19 "Low Voltage Electrical Power Conductors and Cables."

3.03 WELL ABANDONMENT

A. Follow well-abandonment procedures of authorities having jurisdiction. Restore ground surface to finished grade.

3.04 FIELD QUALITY CONTROL

A. Test Preparation: Clean water supply wells of foreign substances. Swab casings using alkalis, if necessary, to remove foreign substances.

B. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

C. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.

D. Perform the following tests and inspections with the assistance of a factory-

authorized service representative:

1. Plumbness and Alignment Testing: Comply with AWWA A100.
2. Furnish samples of water-bearing formation to testing laboratory and well-screen manufacturer for mechanical sieve analysis.
3. Prepare reports on static level of ground water, level of water for various pumping rates, and depth to water-bearing strata.
4. Performance Test Preparation: Start well pump and adjust controls and pressure setting. Replace damaged and malfunctioning controls and equipment.
5. Performance Testing: Conduct final pumping tests after wells have been constructed, cleaned, and tested for plumbness and alignment.
    a. Arrange to conduct tests, with seven days' advance notice, after test pump and auxiliary equipment have been installed. Note water-level elevations referred to for each assigned datum in wells.
    b. Provide discharge piping to conduct water to locations where disposal will not create a nuisance or endanger adjacent property. Comply with requirements of authorities having jurisdiction.
    c. Provide and maintain equipment of adequate size and type for measuring flow of water, such as weir box, orifice, or water meter.
    d. Measure elevation to water level in wells.
    e. Perform two bailer or air-ejection tests to determine expected yield. Test at depths with sufficient quantity of water to satisfy desired yields.
    f. Test Pump: Variable capacity test pump with capacity equal to maximum expected yields at pressure equal to drawdown in wells, plus losses in pump columns and discharge pipes.
    g. Start and adjust test pumps and equipment to required pumping rates.
    h. Record readings of water levels in wells and pumping rates at 30 minute maximum intervals throughout 24-hour minimum period.
    i. Record maximum yields when drawdown is 60 inches above top of suction screens after designated times.
    j. Record returning water levels in wells and plot curves of well recovery rates.
    k. Remove sand, stones, and other foreign materials that may become deposited in wells after completing final tests.

E. Water supply well will be considered defective if it does not pass tests and inspections.

F. Prepare test and inspection reports.

G. Water Analysis Testing:

1. Engage a qualified testing agency to make bacteriological, physical, and

chemical analyses of water from well and report the results. Make analyses according to requirements of authorities having jurisdiction.

2. Analyze water sample from each finished well for bacteriological, physical, and chemical quality and report the results. Make analyses according to requirements of authorities having jurisdiction.

3.05 CLEANING

A. Disinfect water supply wells according to AWWA A100 and AWWA C654 before testing well pumps.

B. Follow water supply well disinfection procedures required by authorities having jurisdiction before testing well pumps.

3.06 PROTECTION

A. Water Quality Protection: Prevent well contamination, including undesirable physical and chemical characteristics.

B. Ensure that mud pit will not leak or overflow into streams or wetlands. When well is accepted, remove mud and solids in mud pit from Project site and restore site to finished grade.

C. Provide casings, seals, sterilizing agents, and other materials to eliminate contamination; shut off contaminated water.

D. Exercise care to prevent breakdown or collapse of strata overlaying that from which water is to be drawn.

E. Protect water supply wells to prevent tampering and introducing foreign matter. Retain temporary well cap until installation is complete.

END OF SECTION

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