TO: All Bidders

FROM: City of Cambridge

DATE: February 2, 2022

RE: File No. 10130 – Fresh Pond Golf Course Fence Replacement - Addendum No. 1

This addendum is comprised of the following:

1. Questions and Answers

The following questions were asked and answered:

**Question:** Are all the line posts being removed or are they staying?
**Response:** Remove and replace all posts.

**Question:** Bid documents do not specify material specifications.
**Response:** The material specification was inadvertently omitted and is attached to this addendum.

**Question:** Will the new fencing require barbed wire as the existing does?
**Response:** All barbed wire to be removed.

**Question:** Will the contractor be responsible for paid police traffic details?
**Response:** The Police Detail specification was inadvertently omitted and is attached to this addendum.

**Question:** Will 2” diamond by 9-gauge core fused bonded fabric + 40 weight pipe be the standard for this project?
**Response:** Material Specification is included in this addendum.

**Question:** Should the existing fence post fittings be removed, or post cut off below grade and leave the concrete footings in place?
**Response:** Concrete footings can be left in place.
Question: Will a certified arborist be required for pruning the branches where they are grown through the fence?
Response: Certified arborist not required for basic trimming – coordinate with golf course superintendent and/or director of golf. No trees to be removed without prior approval.

Question: What is the anticipated time of completion?
Response: Fourteen (14) days for completion of job.

Question: Are there any liquidated damages penalties? Contract documents state 14 days with an amendment of extension of time allowable.
Response: No

All other details remain the same.

Elizabeth Unger
Purchasing Agent

Addendum No. 1
PART 2 - MATERIALS

2.01 VINYL CLAD STEEL POSTS, RAILS AND BRACES

A. General

1. All fence pipe for posts, rails, and all braces and appurtenances shall be vinyl clad, schedule 40 round, seamless hot dip galvanized pipe conforming to ASTM-A-120-1 or approved equal.

2. All structural shapes shall be vinyl clad and galvanized in conformance with ASTM Designation A123.

3. All vinyl clad materials shall be fusion bonded in accordance with ASTM F668 Class 2B.

B. End, Corner and Pull Posts

1. 2.375” O.D. pipe, 3.65 lbs. per linear foot.

2. Maximum Spacing 10’-0” on Center.

C. Line Posts (10’-0” Maximum Spacing)

1. Fence up to 5’-0” in height: 1.90” O.D. pipe, 2.28 lbs. per linear foot.

D. Gate Posts

1. Single leaf gate post shall be 4.00” O.D. pipe, 6.56 lbs. per foot.

E. Rails

1. All rails shall be 1.66” O.D. pipe weighing 2.27 lbs. per linear foot furnished in manufacturer's standard lengths of approximately 21’-0” with outside sleeve type couplings, at least six (6) inches long for each joint – one (1) coupling in each five (5) to have expansion spring. Provide means for attaching rails securely to each corner, pull and end post. Rails shall form continuous brace from end to end of each run of fence.

F. Post Bracing Assembly

1. 1.66” O.D. pipe weighing 2.27 lbs. per linear foot (for horizontal braces). Provide at each side of corner and pull posts and at end posts for fence six (6) feet or higher.
2.02 CHAIN LINK FABRIC (VINYL CLAD)

A. Chain Link fence fabric shall be factory coated 6-gauge core wire with a minimum 0.02 inch thick coating of plasticized polyvinyl-chloride applied by the fusion method over a thermoset plastic bonding agent. The bond shall exhibit equal or greater strength than the cohesive strength of the vinyl. All cut ends shall be coated with vinyl at the factory. Fabric shall be 2” mesh at all locations and black in color throughout.

B. Finished (coated) wire size to be 6 gauge.

C. Top and bottom of fabric shall have knuckled selvage, both sides.

2.03 FITTINGS AND ACCESSORIES (VINYL CLAD)

A. All accessories shall be vinyl clad in accordance with paragraph 2.01 above and galvanized in conformance with ASTM Designation A153.

B. Post Caps

Furnish and install tight fitting pressed steel or malleable iron caps, designed as a weather tight closure cap. Provide one (1) pass-through looped cap for each line post, and one (1) acorn style cape for each end or corner post. Where top rail is used, provide looped cap tops to permit passage of top rail.

C. Tension Bars

1. One (1) piece lengths equal to full height of fabric with minimum cross section of 3/16” x 3/4”, conforming to ASTM Designation A123. Provide one (1) stretcher bar for each end post and two (2) for each corner and pull post.

2. Tension bands and brace bands, if utilized, shall be 7/8” x 12 gauge beveled, galvanized, sized to fit pipe sizes and furnished with galvanized fasteners. Galvanizing shall conform with ASTM A123 or A153 as they pertain.

D. Rail Clamps

1. Rail clamps shall be standard clamps (boulevard clamps) furnished complete with fasteners with ASTM Designation A153.

E. Fabric Bands for Tying Fabric

1. Fabric shall be attached using a BAND-IT band and buckle system

2. Bands shall be 0.020” thickness, 200/300 series stainless steel ½” wide bands, with a minimum breaking strength of 850 lbs., ½” band capacity ear-lock design buckles manufactured with 0.050” thick material, 201/301 series stainless steel.

F. Fittings, lugs, clamps and other accessories shall be steel conforming to ASTM Designation F626 and galvanized in conformance with ASTM Designation A153.
A. Only products from qualified manufacturers having a minimum of 5 years of experience manufacturing chain link fence gates will be accepted by the Owner’s Representative. Products shall meet the following specifications for design, size, gauge of metal parts and fabrication.

B. Obtain chain link fence and gates, including accessories, fittings, and fastenings, from a single source.

C. Gate height shall match the height of the fence. Gate width shall be 6-feet.

D. Gate frames: Fabricate chain link swing gates in accordance with ASTM F 900 using galvanized steel tubular members, 2 inches (50 mm), weighing 2.60 pounds/foot (3.87 kg/m). Connections shall be welded to form rigid, one-piece units. Gate frames shall be vinyl coated fused with 10 to 15 mils (0.254 mm to 0.38 mm) of PVC per ASTM F964.

E. Gate frames shall be galvanized in accordance with ASTM F669, F1083 or F1234, or a combination thereof, and shall match that selected for the adjoining fence work.

F. Gate frame shall provide minimum 2 inch (38 mm) tubular additional horizontal and vertical interior members to ensure proper strength.

G. Chain link fence fabric shall match the fabric of the fences.

H. Hardware materials: Hot dipped galvanized steel or malleable iron shapes to suit gate size. Field coat moveable parts (e.g. hinges, latch, keeper, and drop bar) with PVC touch up paint, provided by manufacturer, to match adjacent finishes.

I. Hinges: Structurally capable of supporting gate leaf and allow opening and closing without binding. The hinges shall not twist or turn under the action of the gate. The gate shall be capable of being opened and closed easily by one person. Provide 3 hinges for each gate leaf. Provide one (1) BadAss self-closing hinge with 2,000 lbs. load capacity and 300 lbs. self-closing weight capacity as manufactured by: D&D Technologies 17531 Metzler Lane Huntington Beach, CA 92647, Tel: 714-677-1300, www.shutitgatehardware.com or approved equal.

J. Latch: Install Magna-Latch Top Pull Safety Gate Latch with provision for lock as manufactured by: D&D Technologies 17531 Metzler Lane Huntington Beach, CA 92647, Tel: 714-677-1300, www.ddtechglobal.com, or approved equal.

K. Keeper: Provide keeper for each gate. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.

2.05 WELDING OF GATE

A. Workmanship and finish shall be equal to the best practice of modern shops for each item of work. Exposed surfaces shall have a smooth finish and sharp, well defined lines and arrises. Sections shall be well formed to shape and size with sharp lines and angles; curved work shall be sprung evenly to curves. Welding shall be in accordance with the Structural Welding Code of the American Welding Society. All welding, except as otherwise indicated, shall
extend the entire length of joints. All welded face joints shall be ground flush and smooth. Welding shall conform to the requirements of ASTM F900 except as modified in this Section, CHAIN LINK FENCE.

B. Welding shall be continuous. All exposed welds shall be ground smooth. Pipe joints shall be mitered or cut as “fish-mouth” pipe joints, will all connections full seam welded then ground smooth, wire brushed. All welds shall be touch-up painted with three coats of zinc rich paint, equal to “Tneme Zinc 90-93”, by Tnemec Paint Co., Woburn, Massachusetts; "ZRC” cold galvanizing compound by Sealube Co., Quincy, Massachusetts; or "Zirp” by Duncan Industries, Everett Massachusetts, or approved equal, prior to application of vinyl coating.

C. Where structural joints are made by welding, the details of all joints, the techniques of welding employed, the appearance and quality of welds made, and the methods used to correct defective work shall conform to requirements of the AWS code.

D. Welds shall be made only by welders who have previously been qualified by tests as prescribed in AWS "Standard Qualification Procedure" for the type of work required.

E. The use of gas cutting torch in the field for correcting fabrication errors will be permitted only when the prior written approval of the Owner’s Representative has been obtained for each specific condition.

F. Weld with uncoated wire to prevent flux deposits. If coated wire is used, all flux residue shall be thoroughly removed and bare white metal exposed. Where overlapping surfaces are welded, seal off contact area by welding all edges around contact area.

2.06 ANCHORING CEMENT

A. Cement for anchoring posts in sleeves embedded in concrete walls shall be "POR-ROK", as manufactured by Hallemite (Lehn and Fink Industrial Products, Division of Sterling Drugs, Inc.), Montage, New Jersey, or approved equal.

B. "Sika Cola-Due" by the Sika Co.

C. "Five Star Grout” the Five Star Co.

2.07 CEMENT CONCRETE

A. Cement concrete for post footings shall conform to MassDOT standards.
Police Details:

Scheduling Police Details shall be the responsibility of the Contractor. A Police Detail is to be present during all construction activity. To schedule a detail officer, call (617) 349-3350.

The Cambridge Police Department requires 24-hour advance notice to obtain a Police Detail, except in emergencies and 4-hour advance notice to cancel a detail.

The Contractor must submit all signed detail forms to the project managers or engineer, so that Public Works can pay all submitted and approved Police detail invoices. Any invoices that are not approved will be the responsibility of the contractor to pay.

The City of Cambridge Police Department shall bill the City of Cambridge Department of Public Works or whatever department has oversight of the contract for the services of uniformed police officers provided by the Police department.

The Contractor will be required to reimburse Public Works or whatever department has oversight of the contract for Police Details, if the Contractor fails to show for the job or if the Contractor fails to cancel the detail with adequate advance notice.