

CITY OF NEWTON, MASSACHUSETTS

PURCHASING DEPARTMENT

purchasing@newtonma.gov

Fax (617) 796-1227

June 24, 2016

ADDENDUM #4

INVITATION FOR BID #16-105

SUPPLY AND INSTALL EXERCISE EQUIPMENT AT AUBURNDALE COVE

THIS ADDENDUM IS TO: **Correct the Project Manual as follows:**

In the original project manual reference was made to roof requirements. The City is removing the roof requirement.

**PLEASE DISREGARD PAGES 9 THROUGH 13 OF THE PROJECT MANUAL
AND INSERT THE FOLLOWING PAGES.**

Description of Corrections:

REMOVE:

PART 2 – PRODUCTS, Section 2.1, Sub Section A. – Exercise Equipment, Sub-Sub Section 1. – Delete sentence “Three units must have roofs.” “n. – Life Trail frame with roof X 3”.

PART 2 – PRODUCTS, Section 2.1, Sub Section A. – Exercise Equipment, Sub-Sub Section 1(n). – Delete “n. – Life Trail frame with roof X 3”.

ADD:

PART 2 - PRODUCTS, Section 2.1, Sub Section A. – Exercise Equipment, Sub-Sub Section 1. “n. Life Trail Frame.”

All other terms and conditions of this bid remain unchanged.

**PLEASE ENSURE THAT YOU ACKNOWLEDGE ALL ADDENDA ON YOUR
BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD
RESULT IN REJECTION OF YOUR BID AS NONRESPONSIVE.**

Thank you.



Nicholas Read
Chief Procurement Officer

REVISED - Supply & Install EXERCISE EQUIPMENT at Auburndale Cove

PART 1 - GENERAL

1.1 SUMMARY

- A. Supply and furnish Outdoor Exercise equipment and install accessible surface.
- B. Related Sections: The following sections contain requirements that relate to this section.
 - 1. Outdoor Exercise Equipment
 - 2. Surfacing

1.2 DESCRIPTION OF WORK

- A. The principal work of this section includes, but may not be limited to the following:
 - 1. Equipment
 - 2. Accessible surface

1.3 SUBMITTALS

- A. Submit shop drawings under provisions of Division 01 for all manufactured items.
- B. Shop drawings shall include plans, details, elevations and specifications and shall indicate profiles, sizes, dimensions, connection attachments, size and type of fasteners, accessories, and color and finish as indicated in these specifications and the plans.
- C. Clearly indicate on the shop drawings any deviations from the plans and specifications.
- D. Submit catalog cuts under provisions of Division 01 for all manufactured items.
- E. Submit warranty information of all manufactured items.
- F. Provide stamped shop drawings by a current Registered Structural Engineer in Massachusetts for footings not shown on the plans. Drawings shall indicate approved equipment manufacturer and model number.

1.4 CERTIFICATIONS AND QUALIFICATIONS

- A. All exercise equipment must meet the following requirements, guidelines and specifications:
- B. **American Society for Testing and Materials (ASTM F 3101-15) Standard Specification for Unsupervised Public Use Outdoor Fitness Equipment.** Certification that all equipment meets the ASTM-F 3101 - 15 performance specifications are mandatory and required for approval by the Owner representative.
 - 1. This standard is to be used in conjunction with Test Methods ASTM F2571 and Specification ASTM F2276 certification program that certifies manufactures
- C. **Exercise equipment must have the following certifications:**
 - 1. The International Organization for Standardization (ISO)
 - a. ISO 9001 – Quality Standards certifying manufacturers processes.
 - b. ISO 14001 - Standards for Environmental Protection and Natural Resource Preservation.

- c. Certification of all ISO Standards is required and must be submitted for review by Owners Representative.
 - d. All playground equipment provided must be manufactured by companies who are currently ISO certified per the above standards. Both ISO 9001 and 14001 are required.
- D. **Welds:** For maximum structural strength, durability and user safety, the manufacturer must provide documented proof of a minimum four year continuous program of annual welding procedure competency. Welder effectiveness must be certified by annual testing on all base metals per American Welding Society AWS QC5-91 guidelines.

1.5 DELIVERY, STORAGE AND HANDLING

- A. **Hardware Packages:** All shipments shall include individual component-specific hardware packages. Each hardware package shall be labeled with the part number, description, a component diagram showing the appropriate component, package weight, a bar code linking the hardware package to the job number, assembler's name, date and time the package was assembled, work center number, and work order number.
- B. **Installation Documentation:** All shipments shall include a notebook or packet of order-specific, step-by-step instructions for assembly of each component, including equipment assembly diagrams, estimated hours for assembly, footing dimensions, concrete quantity for direct bury components, fall height information, area required information and detailed material specifications.
- C. **Packing List:** All shipments shall include a packing list for each skid/container, specifying the part numbers and quantities on each skid or within each container.
- D. **Packaging:** All parts shall be individually packaged in sturdy, water-resistant, mar-resistant cardboard boxes. Other components shall be individually wrapped or bulk wrapped to provide protection during shipment. Small parts and hardware packages shall be placed in crates for shipment. The components and crates are then shrink-wrapped to skids (pallets) to ensure secure shipping. It shall be unacceptable for parts and pieces to come loose.
- E. **Shipping:** Equipment shall be delivered on a flat-bed truck directly from factory to site to best allow ease of offloading and to best prevent multiple unloading and loading of equipment at various terminals.
- F. **Protection:** All play equipment shall be safely stored and protected on-site to prevent damage during installation period and at the end of each day. Damage to equipment due to improper protection shall be the Contractors responsibility to replace damaged equipment at no cost to the Owner.

PART 2 - PRODUCTS

2.1 Any manufacturer's names and/or model numbers identified herein are specific in establishing a general level of quality, configuration, functionality, and appearance required. This is not a proprietary specification. Exercise equipment must incorporate an approach that helps older adults meet physical demands of daily activities. It must be designed so users can have contact with the ground for stability. All exercise units must include visual panels with direction for proper use and three levels of intensity.

- A. **Exercise Equipment**
 - 1. There must be nine units with two or three station of different exercises incorporated in the unit. Stations include:
 - a. LifeTrail Upper body cycling exercise
 - b. LifeTrail Lower body cycling exercise X 2
 - c. LifeTrail Shoulder stability & strength exercise

- d. LifeTrail Inverted row exercise
 - e. LifeTrail Push up exercise
 - f. LifeTrail Wobble board exercise
 - g. LifeTrail Squat exercise
 - h. LifeTrail Upper body cycling (ADA)
 - i. Energi Station Static & dynamic stretches
 - j. Energi Station Pulling, back angle bar and hurdle exercise
 - k. Energi Station Squat, dip, push-up and balance exercise
 - l. Energi Station Power and agility step exercise
 - m. Energi Station Core, torso and balance disc exercise
 - n. Life Trail Frame
2. Owner/operator must be provided with LifeTrail tool and additional parts kit with aerosol, LifeTrail guidelines, LifeTrail maintenance kit with aerosol and Energi Maintenance Kit additional tools and hardware.

PART 3 - EXECUTION

3.1 GENERAL

- A. Installation shall conform to the lines and dimensions shown on the approved shop drawings, where applicable, and the contract drawings.
- B. Field stake locations of all improvements in conformance with the drawings for approval by Owner. Owner may make field changes before approving layout at no additional cost.
- C. Verify all dimensions in the field and check work by other trades for conformance with the drawings before proceeding with the work. Report any discrepancies to the Owner before proceeding.
- D. Footings shall be cast-in-place concrete unless otherwise indicated and as per the approved shop drawings stamped by a Registered Structural Engineer in Massachusetts. Upon completion, poles and posts shall be plumb and in proper alignment.
- E. Deliver to the site all items necessary for completion of installation.
 - a. Material: All materials shall have a demonstrated record of durability in outdoor settings. All materials shall be painted, galvanized, or otherwise treated to inhibit rust. Black steel is not acceptable.
- G. Hardware: All required hardware for assembly of the equipment shall be included. All fasteners shall be 18-8grade stainless steel (300 series) unless otherwise indicated. Capped lock nuts which cover bolts ends shall be included. Tamper resistant hardware is utilized on principal clamping mechanisms. Special tools shall be provided for assembly and maintenance. Physical locking devices are used on all exposed and accessible connecting points, such as nuts. A nylon thread-locking patch is applied to certain hardware. Liquid thread-lock shall be used to hinder fastener removal.
- H. EcoArmor Coating: A coated application on metals shall be from 45 to 55 mils on the wear surfaces of all coated parts and 30 mils on other surfaces. Coating must be environmentally sensitive with no PVC and phthalate free. Coating shall be made of an ultraviolet stabilized polyethylene material. Coating shall meet any and all federal requirements for phthalates and heavy metal content. No dioxins produced if burned. Discarded product and waste production material can be recycled into other products (recycling symbol 2). Shall contain no volatile organic compounds (VOC's). Taber abrasion tests (ASTM D4060) show that the PE coating abrasion resistance is over 1.7 times the abrasion resistance of PVC. Durability to extreme cold (to -20 degrees F) cycle testing indicates no cracking or loss of adhesion to the metal substrate. Slip resistant finish for enhanced traction. Coating has 0.74 coefficient of friction per ASTM1679.

1. Eco Armor is formulated and tested per the following ASTM standards. Each color must meet or exceed the ratings listed below:
 - a. Flexibility: ASTM D522-1/8" no cracks greater than 32%
 - b. Adhesion: ASTM D4541 – 800psi
 - c. Impact resistance – ASTM D 2794 – greater than 320 in-lbs
 - d. Gloss – ASTM D 523-12
 - e. Taber Abrasion: ASTM D 4060-26 (mg loss, CS 17 wheel)
 - f. Tensile strength – ASTM D 638-3482psi
 - g. % Elongation: ASTM D 638 – 13%
 - h. Humidity resistance – ASTM D 2247 – No blistering or loss of gloss after 100 hours.
 - i. Salt Spray: ASTM B 117-2000hrs., no significant change in color gloss QUV – ASTM G 53 – 2000 hrs.

- I. Super Durable Polyester Powder Coat: Powder coating is electrostatically applied at a thickness of 2 to 5 mils. (.002-.005). Prior to finishing, components shall be cleaned with a three-stage alkaline bath and followed by a sealer for adhesion and rust inhibitor during the preparation process. Components are thoroughly dried before applying an epoxy/polyester primer. The primer is cured before applying Superdurable TGIC polyester powder. Finish quality conforms to ASTM Specifications:
 - A. Salt and Spray Resistance Test; B-117: 4,000 hrs.
 - B. Impact Resistance Test; D-2794: min. 80 inch/ib.
 - C. UV Exposure (G154, 340): 3,000 hr. Delta E of 2. 90% gloss retention
 - D. Pencil hardness test; D-3363: 2H
 - E. Crosshatch Adhesion test; D-3359-B: 100% pass
 - F. Conical Mandrel; D-522: 1/8 inch, no cracks
 - G. Gloss- 60 degrees; D-523

Super Durable Polyester Powder Coatings typically retain 90% of their original gloss after 1 year, and 50% of their original gloss after five years of Florida outdoor exposure. Expect super durable colors to retain 80% of their gloss after 2 years of outdoor exposure. These coatings are also shaded with high grade, light stable pigments and will shift less than 2dE in color after 2 days.

- J. Steel Tubing: Tubing shall be cold rolled, electric resistance welded tubing. Tubing shall be triple coated for maximum exterior protection; a hot-dipped Flo-Coat uniform zinc galvanized coating, a chromate conversion coating and a clear polymer coating. Galvanized exterior coating weight shall be within range of .4 oz./sq. ft. and .6 oz./sq. ft. Tubing shall have a corrosion resistant, zinc-rich paint interior coating. ASTM Specifications; A-315, A-500, A-513, E-8.
 - A. Tensile strength 55,000 psi, yield strength 50,000 psi 3"x3" sq x 12gA
 - B. Tensile strength 55,000 psi, yield strength 50,000 psi 1.0219" OD X 14 gA
 - C. Tensile strength 75,000 psi, yield strength 60,000 psi 1.315" OD x 14 gA
 - D. Tensile strength 75,000 psi, yield strength 60,000 psi 2.375" OD x 12 gA

- K. Aluminum Tubing (Support Post and Sleeve): Shall be extruded 6061-T6 extruded seamless aluminum alloy tubing. ASTM Specifications: A-315, A-500, A-513, B-221, QQ-A-220/8, E-8.

- L. Aluminum Tubing (Arch): Shall be an all welded assembly fabricated of 6063-T4 extruded seamless aluminum alloy tubing.

- M. Decks/Platforms: All shall be a modular design and have precision holes on the standing surface to prevent debris and water collection. There shall be slots in each face to accommodate face mounting of components. Decks shall be manufactured from a single piece of low carbon 12 GA (.105) sheet steel conforming to ASTM specification A-569. The sheet shall be perforated with a return flange on the perimeter to provide the reinforcement necessary to ensure structural integrity. There shall be no unsupported area. The unit shall then be EcoArmor coated

- N. Compressions Molded Polyethylene: These parts shall be manufactured from $\frac{3}{4}$ high-density polyethylene that has been specifically for optimum UV stability and color retention. Products shall meet or exceed density of 960 G/cc per ASTM D1505, tensile strength of 2400 Psi per ASTM D638. Some parts are available in a two-color product with (2), 100" thick exterior layers over a .550" interior core of a contrasting color
- P. Fiberglass Sign/Panel: Sign is a solid one-piece panel with all copy and graphics embedded in a panel. Panel is manufactured out of fiberglass reinforced plastic or equivalent with a non-yellowing, R-70 clear resin (or UV stabilized, acrylic-modified polyester resin) reinforced with a high solubility, chopped strand fiberglass mat so that the index of refraction ensures total clarity of color, copy and graphics. Glass fibers will not be readily discernible face. Material will have a glass content of no less than 28% of the total weight. Material will have an ambient temperature range of -65 to 350 degrees F. Material will not be permanently defaced by steam, acids, aromatics, scratching, inks, or paints and will be readily wiped clean with paint remover and solvents without affecting the appearance flat. Material will be warranted for a period of 10 years against chipping, delaminating, and fading.
- Q. Installation/Maintenance Documentation: Explicit installation instructions shall be provided which will include a detailed top view and footing drawings plus written instructions to assure proper installation of the equipment. Maintenance guidelines and inspection checklists shall also be provided. The provided installation instructions and maintenance instructions shall be "project" specific containing component information that is part of the playground design.
- R. Packing List: All shipments include a packing list for each skid/container. Specifying the part numbers and quantities on each skid or within each container.
- S. Packaging: Support posts should be individually packaged in sturdy, mar-resistant cardboard boxes. Components shall be individually wrapped or bulk wrapped to provide protection during shipment. Small parts and hardware packages will be placed in crates for shipment. Installation instructions shall be packaged within the hardware packages.
- T. Maintenance Kit: An order-specific maintenance kit shall be provided for each structure order. The kit will include a CD as well as a packet with a second set of installation documents and order specific maintenance documentation with recommendations on how often inspect, what to look for and what to do keep the equipment in like-new condition. The kit also includes primer, appropriate color touch-up paint, sandpaper, graffiti remover and additional installation tools and hardware.

PART 4 – SURFACING

4.1 General

- A. Six by six timbers with re bar and timber locks for installation. (see drawing for dimensions)
- B. Four inches dense grade for sub surface
- C. Two inches stone dust compacted

END OF SECTION

CITY OF NEWTON, MASSACHUSETTS

PURCHASING DEPARTMENT

purchasing@newtonma.gov

Fax (617) 796-1227

June 15, 2016

ADDENDUM #3

INVITATION FOR BID #16-105

SUPPLY AND INSTALL EXERCISE EQUIPMENT AT AUBURNDALE COVE

THIS ADDENDUM IS TO: **CHANGE THE BID OPENING TO THE FOLLOWING:**

BID OPENING: THURSDAY, JUNE 30, 2016 AT 11:00 A.M.

REVISED SPECIFICATION TO BE ISSUED AS ADDENDUM #4

All other terms and conditions of this bid remain unchanged.

**PLEASE ENSURE THAT YOU ACKNOWLEDGE ALL ADDENDA ON YOUR
BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD
RESULT IN REJECTION OF YOUR BID AS NONRESPONSIVE.**

Thank you.



Nicholas Read
Chief Procurement Officer

CITY OF NEWTON, MASSACHUSETTS

PURCHASING DEPARTMENT

purchasing@newtonma.gov

Fax (617) 796-1227

June 3, 2016

ADDENDUM #1

INVITATION FOR BID #16-105

SUPPLY AND INSTALL EXERCISE EQUIPMENT AT AUBURNDALE COVE

THIS ADDENDUM IS TO: **Correct the Project Manual as follows:**

PLEASE DISREGARD PAGES 31 THROUGH 36 OF THE PROJECT MANUAL.

This information was used for a previous project and should not have been included in this bid.

All other terms and conditions of this bid remain unchanged.

**PLEASE ENSURE THAT YOU ACKNOWLEDGE ALL ADDENDA ON YOUR
BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD
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Thank you.



Nicholas Read

Chief Procurement Officer

CITY OF NEWTON, MASSACHUSETTS

PURCHASING DEPARTMENT

purchasing@newtonma.gov

Fax (617) 796-1227

June 13, 2016

ADDENDUM #2

INVITATION FOR BID #16-105

SUPPLY AND INSTALL EXERCISE EQUIPMENT AT AUBURNDALE COVE

THIS ADDENDUM IS TO: **Answer the following Questions:**

Q1. Pursuant to the bid for exercise equipment, please advise if you will accept a bid for the **equipment only**. Our company is a supplier of outdoor exercise equipment, however, we do not do any installation.

A1. No, the bid specifically requests both furnishing of the equipment and installation.

Q2. I also don't see any drawings for this project. Looking for dimensions of site, is all the equipment going in one area?

A2. Dimension, diagram and aerial of site attached.

Q3. Are there paths to travel from piece to piece that would require wood carpet?

A3. There is no wood carpet specified in specs. The entire area will have timber border with a compact stone dust finish in the entire area. See drawings.

Q4. I am looking at the above referenced project. I see a list of play equipment for Berliner and no exercise equipment. Please advise.

A4. Specifications for playground equipment were deleted by Addendum No. 1. The specifications for the exercise equipment are found at pp. 8-13 of the Invitation For Bids.

All other terms and conditions of this bid remain unchanged.

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BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD
RESULT IN REJECTION OF YOUR BID AS NONRESPONSIVE.**

Thank you.

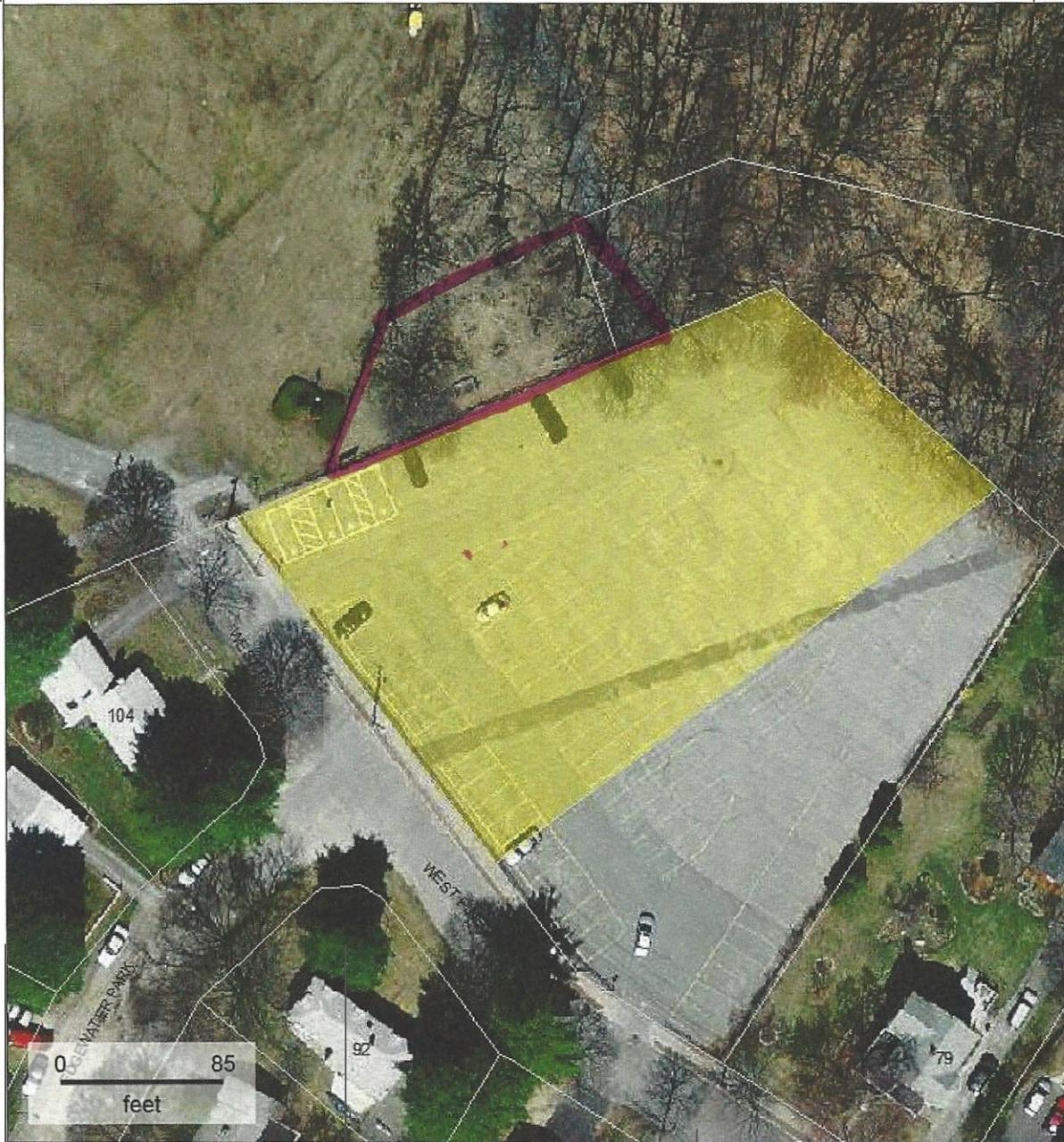


Nicholas Read

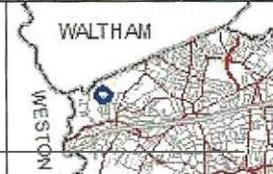
Chief Procurement Officer

5/17/2016

City of Newton



Property ID: 41031 0037
Address: WEST PINE ST
Owner: CITY OF NEWTON



MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Because of different update schedules, current property assessments may not reflect recent changes to property boundaries. Check with the Assessors' Office to confirm boundaries uses at the time of assessment.

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