Purchasing Department
73 Harlow Street
Bangor, Maine 04401
207-992-4282

Request for Proposals
Playground Equipment
Issue Date: August 19, 2016

I. Introduction

The City of Bangor requests proposals for furnishing, delivering, and installing one (1) integrated playground system as well as safety surfacing for the structure. This structure is to be located at Little City Park on Linden Street in Bangor. All items shall be furnished, assembled, and installed in accordance with all manufacturer's instructions, all applicable OSHA and ADA requirements, and all specifications noted herein.

The following provides a general description of information required in the Proposals and the format to be followed. Proposers must furnish all information requested and follow the instructions as noted herein or may be disqualified. Additional information may be submitted if deemed helpful in the selection process.

II. General Information

General information is available on the City's website at the following web address: www.bangormaine.gov/proposals. By submitting a response to this solicitation, the bidder accepts the responsibility for downloading, reading and bidding by the terms and conditions set forth in the City's "General Information for Vendors". All questions shall be directed in writing to bids@bangormaine.gov.

III. Submission

To be considered the completed Bid Form on page eleven (11) as well as any other requested information as well as any information the Proposer deems important in an envelope **clearly** marked **"Proposal No.: Playground Equipment" by 2:00 PM, Wednesday, September 7, 2016** to City of Bangor, Purchasing Department, 73 Harlow Street, Bangor, Maine 04401.

Proposals may also be submitted via email by sending to: bids@bangormaine.gov. If emailing, please reference **"Proposal No.: Playground Equipment"** in the subject line. Proposals will be publicly opened on the date and time stated above.

A tabulation of all proposals received will be available with 24 hours of the date of opening. Bid results may be viewed by visiting the City's website at www.bangormaine.gov/bidtabs .

IV. Questions

Any questions must be directed in writing to bids@bangormaine.gov no later than **4:30 PM, Thursday, August 25, 2016.**

The City will issue a response to any questions or inquiries submitted in writing by the date above, on or before **4:30 PM, Monday, August 29, 2016.** The response will be in the form of an addendum, which will be available on the City's website.

V. Information and Requirements

a. The play structure system shall be appropriate for ages 5-12 and will include all equipment specified Section X: General Specifications.

b. The play system shall be installed on an area that is approximately 54 feet by 70 feet. A photo displaying the approximate location on the site is included.

c. All equipment components proposed must include complete manufacturers specifications.

d. Proposals must also include furnishing, delivering, and installing an engineered wood fiber safety surfacing. Surfacing should be appropriate for the structures and components proposed and must cover the area required by all applicable OSHA, ADA, CPSC and ASTM requirements and industry standards.

e. Basic equipment and attachments shall be the latest models available, fully tested, serviced, ready to operate in accordance with the specifications and be satisfactory to the Director of Parks and Recreation.

f. Any items not specifically mentioned in these specifications but involved in carrying out their intent must comply with all requirements noted herein.

g. Proposers shall submit with their proposals the latest printed specifications and illustrations as advertised by the manufacturer of the proposed product(s).

h. Complete warranty information must be included for all items noted in the proposer's proposal.

i. A sketch showing each component of the play area must be included in the proposal.

j. A list of at least three references for similar play structures for the structure requested must be included with the proposal. Names and contact information of individuals who are familiar with the equipment referenced must be included.
k. All Federal and State taxes must be excluded from the bid price. A tax exemption certificate for the City of Bangor shall be furnished to the successful Bidder upon request.

VI. Preparation

Proposals should be prepared by providing a straightforward, concise delineation of the capabilities proposed to satisfy the requirements of the City. Completeness and clarity of content are requested. All brochures, presentations and items submitted in support of proposals will become part of the Contract.

VII. Withdrawal or Rejection of Proposals

Proposals may be modified or withdrawn in person or by written notice received at any time prior to the closing date and time specified. Proposals may be withdrawn in person only by an authorized representative of the proposer.

The City of Bangor reserves the right to reject any and all bids, to waive any informalities or defects in bids or to accept a higher cost bid if it is deemed to be in the best interest of the City of Bangor. The City also reserves the right to negotiate with the lowest responsive Bidder.

VIII. Selection Criteria

The following criteria will be used to select the proposal deemed to provide the best value for the City of Bangor.

a. The quality of features of the equipment propose;
b. Past experience with the proposed equipment and past experience with the Proposer;
c. References and experience of others with the proposed equipment and Proposer;
d. Any extended warranties or special features over and above the minimum requirements; and
e. The cost of the equipment and its installation.

IX. Contract Terms and Conditions

The City intends to negotiate a final contract with the proposer whose proposal is highest ranked.

Before submitting a proposal, all prospective proposers are encouraged to carefully examine the Specifications, visit the City, and fully inform themselves as to the existing conditions and limitations under which the work will be performed. Failure of the above will not release a successful proposer from the Contract Documents or the requirements to complete the contemplated work for the consideration set forth in the proposal.

Each proposer shall make their Proposal from their own examinations and estimates and shall not hold the City, its agents or employees responsible for any information received from them.

X. General Specifications

Any exception to the provisions in the specifications must be itemized on a separate page titled "Exceptions", referenced by section number and paragraph, along with a detailed explanation and illustration of the exception.

a) COMPONENTS:

- "S" Curve Slide
- One (1) Spiral Slide at least 56" above grade
- One (1) Double Poly Slide
- Step ladder from grade to top of deck
- Arch climber with PVC coated planks and continuous rails
- Simulated cliff or rock climber
- "Chimney" style climbing event
- Transfer module
- Curved bridge included
- Arched bridge included
- Fire Pole
- Climbing Wall type event
- One (1) balcony style panel event
- One (1) net clumber event integrated into structure
- One (1) wavy style or similar climber
- Panels- Six (6) of proposers choice

b) MATERIAL: All materials shall be structurally sound and suitable for safe play. Durability shall be on all steel parts by the use of time tested coating such as zinc plating, zinc nickel plating, polyester coating, PVC-coating, etc.

c) FASTENERS: Primary fasteners shall be socketed and pinned or a similar tamper proof design. These fasteners shall be stainless steel (SST) per ASTM 879 unless otherwise indicated. All primary fasteners shall include a locking patch type

material that will meet maximum torque requirements of 1FI-125. Manufacturers to provide special tools for pinned hex fasteners.

d) PLATED FASTENERS: Carbon steel plated with zinc nickel and iridescent chromate finish, such as the 3/8" tee nuts and 3/8" hex pin flange nuts.

e) PVC COATING: All metal components to be PVC coated shall be thoroughly cleaned in a hot phosphating pressure washer, then printed with a clear acrylic thermosetting solution. Primed parts shall be preheated prior to dipping in U.V. stabilized, liquid poly vinyl chloride, and salt cured at approximately 400 degrees. The finished coating shall be approximately .080" -.020" thick at an 85 durometer hardness and have a matte finish.

f) POLYESTER COATING: All metal components to be polyester coated shall be free of excess weld and splatter. Parts shall be thoroughly cleaned in a six stage pretreatment system with a hot phosphatizing bath and non-chrome seal for corrosion resistance then thoroughly dried. Polyester coating shall be electrostatically applied and oven cured at 350 degrees. Average thickness: .004".

   Polyester coating shall meet or exceed ASTM standards for:

   - Adhesion (D-3359B)
   - Hardness (D-3363)
   - Impact (D-2794)
   - Salt Spray Resistance (B-117)

g) DECKS: All decks shall be of modular design and the diameter of the holes of the standing surface shall be of a diameter that will not promote a finger entrapment. The diameter of these holes should be provided. There shall be (4) slots in each surface to accommodate face mounting of components. Decks shall be manufactured from a single piece of low carbon no less than 11 GA (.105") sheet steel conforming to ASTM specification A-569 as well as all other applicable ASTM specifications. The sheet shall be perforated then flanged formed and reinforced as necessary to insure structural integrity. The unit shall then be PVC coated.

   Decks shall be designed so that all sides are flush with the outside edge of the supporting posts.

h) ROTATIONALLY MOLDED POLY PARTS: These parts shall be molded of linear low-density polyethylene that is U.V. and color stabilized. Wall thickness varies

by product from .187" (3/16") to .312" (5/16"). Rotationally molded products shall meet or exceed tensile strength of 2700 PSI per ASTM D638.

i) PERMALENE PARTS: These parts shall be manufactured from high-density polyethylene that has been formulated for optimum U.V. stability and color retention. Products shall meet or exceed density of .933 G/cc per ASTM D1505. Tensile strength of 2400 PSI per ASTM D638.

j) FOOTINGS: Unless otherwise specified, the bury on all footings shall be 34" below Finished Grade (FG) on all in ground play events/posts. Footings shall be made of the proper amount of concrete called for by the manufacturer.

k) POSTS: Post length shall vary depending upon intended use. Posts shall be a minimum of 42" above the deck height. Intrusions into post for securing attachments must be self-sealing. Hollow role pins allow entrance of condensation inside of pipe and shall not be allowed. All posts shall be polyester powder-coated as specified. Colors optional. All posts shall have a "finish grade marker" positioned on the post identifying the 34" bury line required for correct installation. Top Caps for posts shall be aluminum die-castings from 380 alloy. Caps shall be polyester powder-coated to match the post color. All caps shall be factory installed and secured in place with (3) self-sealing rivets. Uncapped, flattened post ends shall not be allowed.

l) STEEL POSTS: All steel play structure posts shall be 5" O.D. tubing with a wall thickness of .120" and shall be galvanized after rolling and shall have both the I.D. and the cut end sprayed with a corrosion resistant coating.

m) ALUMINUM POSTS: Aluminum posts are to be constructed of 6061-T6 extruded seamless tubing conforming to ASTM b-221 and QQ-A-200/8. Posts shall have a 5" outside diameter with .125" wall.

n) ARCHES: Aluminum arch shall be constructed from 6063-T4 alloy. The arch shall be formed to a 21" centerline radius to complement the 42" center to center module. The arch shall be of one continuous piece construction. There shall be no welds or additional pieces mechanically fastened to construct the arch. Each arch shall be designed to provide 82-1/2" clear span for the deck to inside of the arch at the radius peak. Arches are polyester coated as specified.

o) CLAMPS: All clamps, unless otherwise noted, shall be die cast with 364 alloy. The material shall have the following mechanical properties:

- A. Ultimate tensile 45, 000 PSI

- B. Yield Strength 25, 000 PSI
- C. Elongation 8% in 2 inches
- D. Shear Strength 29, 000 PSI
- E. Endurance Limit 20, 000 PSI

Each functional clamp assembly shall have the appropriate number of half clamps or otherwise needed hardware. In the absence of a clamp type assembly, any assembly that connects equipment to posts shall conform to any and all standards for playground manufacture. All necessary hardware and tools shall be provided. In lieu of clamps, other devices may be substituted, but specifications must be provided and such devices must conform to current public playground manufacturing standards.

p) RAILS, HANDLOOPS: These parts shall be constructed of 1 1/8" O.D. steel tubing with a .120" wall thickness. Each end of the rail/handloop shall have stainless steel knurled, welded, insert with 5/8" interval threads. Exposed rails, handloops, shall be oven-cured PVC coated. No other coating is acceptable. Colors optional.

All exposed handrails and handloops shall be secured to supporting posts with (2) rail hanger clamp assemblies, standard rails are 40 ½" long.

Rails used for poly walls shall be 40 ½" long pipebolts and they shall be polyester powder-coated.

q) SPACERS: All spacers utilized shall be extruded of high density black polyethylene and designed with centering fingers to allow the maximum surface exposure to reduce crushing.

r) BOLT LINKS/DOUBLE CLEVIS: Bolt links shall be steel forging Cadmium Plating with a seal finish and equipped with a 3/8" x 1 ¼" pinned-hex shoulder bolt. The double clevis shall be a steel casting with a Cadmium-plate-with-seal-finish. Fasteners are a 7/16" x 2-7/16" hex head shoulder bolt and a 3/8" x 1 ¼" hex-pin shoulder bolt.

s) PIPE BARRIER: The horizontal rails shall be constructed of 1 1/8" O.D. x 11 gauge steel tubing and 5/8" stainless steel inserts welded into the ends. Vertical rungs shall be 5/8" O.D. steel bars welded to the rails at 3-3/8" on center. After fabrication, entire unit shall be coated with oven cured PVC. Colors optional.

t) VERTICAL LADDERS: The one piece unit shall attach to the post at 4 points. The construction shall consist of an outer frame formed from 1-5/16" diameter

steel used for rungs and standoffs. The standoffs shall have 5/8" stainless steel knurled inserts welded into them. Spacing of the step rungs shall be 12" center to center. The ladder shall be oven-cured PVC coated. Colors optional.

u) TRANSFER MODULE: The transfer module shall be 36" square with rounded edges 7/8" perforations and a 5"diameter support leg. Steps should be 36" wide, 14" deep, and be fully enclosed and have perforated treads. Handrails shall be fabricated and conform to specifications contained herein. Transfer module shall provide access to 32", 40", 48", and 56" deck heights. Transfer module deck and steps shall be PVC coated brown.

v) DECK TO DECK STEPS: Single step sections shall be formed from 12-gauge sheet steel. Each section will accommodate an 8" rise and the perforated tread shall be 36" wide and 14" deep. Barriers shall be formed from 1 1/8" O.D. x 11" gauge steel tubing with 303 stainless steel 5/8" threaded inserts. Steps and barriers shall be PVC coated.

w) BRIDGES: Fabricated from 11 GA (.120") sheet steel conforming to ASTM A569. Standing surface is perforated with holes that are of a diameter that do not a finger entrapment by having a diameter either small enough or large enough.

x) WAVY POLYETHYLENE SLIDE: Slide shall be rotationally molded and comprised of one wave section and one rubout section. The two sections shall be connected together using Cadmium-plate-with-seal pinned hex drive cap screws, recessed into "T" nuts, which are molded into the runout section. The slide shall face mount to the deck. There shall be 1.900" O.D. mid-support post on the wave section and a 2-3/8" O. D. support post on the runout section. The slide shall be 19" wide with a 16" sliding surface and 5" high sides. A single hood shall be provided.

y) SINGLE AND DOUBLE POLY SLIDES: Bedways shall be molded and have a wall thickness of .205" Unit shall be designed with a minimum of 6" high side rails, 16" wide sliding surface, 16" exit length and a center divider for double bedways. Slide shall have an average sliding slope of 30 degrees and face mount with 1/8" x 7/8" pinned-hex drive Cadmium-plate-with-seal cap screws into molded "T" nuts. Polyester powder coating slide base "T" supports shall have single 2-3/8" O.D. steel post for single slides and a double post for double slides. Single and double slides shall include a slide hood.

z) SPIRAL SLIDE: Spiral slide shall be rotationally molded and be comprised of one entrance section, 3 or 4 sliding sections measuring 14" high with a 90 degree

rotation and runout section. All sections shall be connected together using Cadmium-plate-with-seal bolts into molded "T" nuts. Joined sections shall be supported by a 3-1/2" O.D. steel center column that is attached at the top to the entrance section and one barrier. Protective sidewalls shall extend 14" upward from the sliding surface and continue throughout sliding surface into the exit section. Non-skid rotationally molded entrance shall face mount to decks. Entrance section shall have 38" high barriers fabricated from 1-1/8" O.D. steel tubing with solid 5/8" vertical rods at 3-1/2" center to center. Barriers attach to posts as an enclosure. After fabrication, barriers shall be oven-cured PVC coated.

aa) ACTIVITY PANELS: All panels shall be manufactured from Compression-molded Polyethylene (see general specifications). Panel size is at least 35 ½" wide and 37" tall. The panels shall be attached to aluminum panel brackets utilizing (6) standard 3/8" fasteners with panel nuts and to the posts with (4) bolt brackets. Panel brackets shall be polyester powder-coated to match the panel color.

Compression molded polyethylene panel shall be compression molded ¾" thick U.V. stabilized high-density polyethylene with all edges eased. The panel measures at least 36" wide and at least 37" tall.

Brackets are 1-1/8" O.D. x 11 gauge galvanized steel tubing continuously welded to 11 gauge 1-1/2" x 7/8" steel angle. The unit is zinc plated, then coated with a baked on polyester powder coating with color to match panel. Specifications must be provided for an alternative bracket.

Clamps shall be die cast 364 aluminum alloy with a baked on polyester powder coating. Color optional.

Hardware shall be Cadmium-plate-with-seal and tamperproof in design.

bb) KICKPLATE: The kickplate(s) shall exist between any (2) decks with a 6"-9" difference in height. It shall be fabricated from 3" x 3" x 3/16" angle iron. Coated with a baked on polyester powder-coating. Hardware is Cadmium-plate-with-seat tamperproof in design.

cc) MAINTENANCE KIT SPECIFICATIONS: Successful vendor shall provide maintenance kit consisting of sandpaper, primer and paint specific to the color of the structure provided. Graffiti remover, wrenches, common hardware and inspection/maintenance manual shall also be provided and to be retained by the City of Bangor Parks and Recreation Department.

dd) CERTIFICATION: The play system must be certified and validated to be in conformance with the (ASTM) American Society for Testing and Materials for Public Playgrounds and in conformance to accessibility requirements to the (ADA) American with Disabilities Act. The play system must be certified by (IPEMA) International Play Equipment Manufacturers Association.

ee) WARRANTY:

- 15-YEAR WARRANTY on all main structures of play structure against structural failure due to corrosion, deterioration, insect infestation, or workmanship. Warranty should include posts, decks, vertical ladders, and clamps that comprise the main structure.
- 15-YEAR WARRANTY for structural failure of all polyethylene components and molded panels.
- 3-YEAR WARRANTY for structural failure of moving parts, swing seats, and any other materials including installation not covered by the above mentioned warranties.

Proposals Form
Playground Equipment

Bid Deadline: 2:00 PM
Wednesday, September 7, 2016

Note: Equipment must be proposed by submitting this form along with any other requested documentation. Failure to comply may result in disqualification.

Item	Description	Price
1	Equipment Price:	$
2	Installation Price:	$
3	Surfacing Price:	$
	Total Bid Amount:	**$**
Manufacturer of Equipment:		
Model of Equipment:		
Number of days to complete project upon receipt:		
Price must include all miscellaneous charges: fuel, transportation etc. No other charges will be accepted.		

Business Name:			
Complete Address:			
Contact Name & Title:			
Email Address:			
Telephone Number:		**Date:**	

ArcGIS Web Map

August 19, 2016

Sublot

1:640

0 0.005 0.01 0.02 mi

0 0.0075 0.015 0.03 km

City of Bangor Parcel Viewer