



# Town of Alton

## Public Notice Request for Proposals

**Date of Issue: November 7, 2022**  
**Alton Bay Railroad Park Waterfront –**  
**“Replacement of Brick Sidewalks- with**  
**Concrete sidewalks- Brick stamped with**  
**coloring”**

The Town of Alton, NH is soliciting proposals from qualified contractors interested in providing construction services for replacement of Brick Sidewalks- with Concrete sidewalks- Brick stamped with coloring.

**The complete Request for Proposals (RFP) may be viewed at <https://www.Alton.nh.gov> and copies may be downloaded directly from this site.** Acquiring from a different source could mean that this document has been superseded by a later version. The Town is not responsible for any reader’s failure to heed this notice. Any addendums and clarifications issued for this RFP will be posted on the following Town website.

<https://www.Alton.nh.gov>

General questions, requests for information and responses to this RFP shall be addressed to:

Scott Kinmond, CPM  
Director of Public Works [dpwdirector@alton.nh.gov](mailto:dpwdirector@alton.nh.gov)  
[603-875-6808](tel:603-875-6808) - Office

**Sealed Qualifications must be received by January 5, 2023, at 200 p.m.** Late Proposals, amendments and/or responses received after the time and date listed above shall not be evaluated or considered. **Emailed Proposals shall have “Alton Bay Railroad Park Waterfront- Stamped Concrete Sidewalk Project” in the subject line.** Accepted proposals will be opened at January 5, 2023, at 2:00 pm.

The Town of Alton reserves the right to reject any and all submittals. This RFP does not obligate the Town to pay any cost incurred by respondents in the preparation and submission of a response nor does it obligate the Town to accept or contract for any expressed or implied work.



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### Project Scope

**Location:**

Alton Bay Railroad Park Waterfront, Mount Major Highway, Alton Bay, NH.

**Scope of Work**

- The current brick sidewalks which consist of 5,619 square feet of sidewalk.
- These sidewalks will be removed by the Town’s Public Works Department.
- Granite curbing, which will be reset by others.
- Town Public Works Staff will establish subgrade gravel, and bring to a rough grade.
- Sidewalk will need to be fine graded, compacted and formed in accordance with Appendix A.
- Contractor will begin the preparation and installation of the specified stamped (brick design) concrete with approved coloring, and sealer as specified in Appendix A.
- Google Maps & Tax Map Appendix B
- Sketch – Not to Scale Appendix C

**Timeline:**

The Town’s Public Works Department plans to have the current brick sidewalk removed by May 1, 2023, and available for Granite Curbing installation, and upon resetting available to the contractor with a completion date weather dependent of May 25, 2023. The site may become available for a phased installation.

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## APPENDIX A- STAMPED CONCRETE SIDEWALKS

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Integrally colored Portland cement concrete paving with imprinted pattern, stain and cure/sealer.
- B. Integrally colored and color-hardened Portland cement concrete paving with imprinted pattern and stain/sealer treatments.

#### 1.2 RELATED DOCUMENTS

- A. Drawings, general provisions of the Contract, General Conditions, Supplemental Conditions and Division 1 Specification Sections apply to this Section.
- B. The State of New Hampshire Department of Transportation (NHDOT) Standard Specifications for Road and Bridge Construction (hereinafter referred to as NHDOT Standard Specifications), latest edition.
  - 1. All references to Method of Measurement, Basis of Payment and Payment Items in the NHDOT Standard Specifications are hereby deleted. References made to particular sections or paragraphs in the NHDOT Standard Specifications shall include all related articles mentioned therein.

#### 1.3 REFERENCES

- A. ACI 301 - Specifications for Structural Concrete for Buildings.
- B. ACI 302 - Guide for Concrete Floor and Slab Construction.
- C. ACI 303 - Guide to Cast-in-Place Townural Concrete Practice.
- D. ACI 305R - Hot Weather Concreting.
- E. ACI 306R - Cold Weather Concreting.
- F. ACI 308 - Standard Practice for Curing Concrete.
- G. ACI 309 - Standard Practice for Consolidation of Concrete.
- H. ACI 347 - Guide to Formwork for Concrete.
- I. ASTM C33 - Standard Specifications for Concrete Aggregates.
- J. ASTM C150 - Standard Specifications for Portland Cement.
- K. ASTM C260 - Standard Specifications for Air-Entraining Admixtures for Concrete.
- L. ASTM C494 - Standard Specifications for Chemical Admixtures for Concrete.
- M. ASTM C881 - Standard Specifications for Epoxy-Resin-Base Bonding Systems for Concrete.
- N. ASTM A185 - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
- O. ASTM C94 - Standard Specification for Ready-Mixed Concrete.
- P. ASTM C206 - Standard Specification for Finishing Hydrated Lime.
- Q. ASTM C233 - Standard Test Method for Air-Entraining Admixtures for Concrete.

- R. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
- S. ASTM C979 - Standard Specification for Pigments for Integrally Colored Concrete.
- T. ASTM C1059 - Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete.

#### 1.4 SUBMITTALS

- A. Submit in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Testing:
  - 1. Submit proposed mix design for each class of concrete for review prior to commencement of work.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
- B. Installer Qualifications:
  - 2. The Installer shall provide a qualified foreman or supervisor who has a minimum of three years' experience with imprinted and textured concrete, and who has successfully completed at least five imprinted concrete installations of high quality and similar in scope to that required.
  - 3. The concrete is cast in place, on the job site, by trained and experienced workmen who shall be employed by a firm that is approved by the Town
  - 4. Perform work in accordance with ACI 301, 302, 303.
  - 5. Obtain materials from same source throughout.
  - 6. Conform to applicable codes and regulations for paving work performed within the public right of way.
- C. Ready-Mixed Supplier Qualifications: Supplier of ready-mixed concrete products shall comply with ASTM C 94 requirements for production facilities and equipment. Supplier shall be certified according to NCRMA's "Certification of Ready Mixed Concrete Production Facilities Quality Control Manuals."
- D. Mock-Up: Provide field samples of surface colors textures and patterns specified for Town approval prior to beginning work, 48 inches by 48 inches (1219 mm by 1219 mm) in size illustrating paving finishes.
  - 1. Finish areas designated by Town.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Town.
  - 3. Refinish mock-up area as required to produce acceptable work.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

## 1.7 PROJECT CONDITIONS

A. Do not place pavement when base surface or ambient temperature is less than 40 degrees F (4 degrees C) or if base surface is wet or frozen.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

## PART 2 PRODUCTS

### 2.1 SYSTEM

### 2.2 Supporting Structure:

#### A. Mix Design:

1. Mix and deliver concrete in accordance with ASTM C94, Alternate 2. Refer to Drawings for concrete strength requirements.
2. Use accelerating admixtures containing no calcium chloride in cold weather only when approved by testing laboratory. Use of admixtures will not relax cold weather placement requirements.
3. Use set retarding admixtures during hot weather only when approved by testing laboratory.
4. Add air entraining agent to concrete mix for concrete work exposed to exterior, in amounts of 4 to 7 percent of total concrete volume or as otherwise recommended by testing laboratory.
5. Add coloring admixture where scheduled in quantities recommended by coloring admixture manufacturer to achieve selected color.
6. Add polypropylene fiber reinforcement at point of concrete batching at rate scheduled.
7. Maintain water cement ratio to produce a minimum of 3 to maximum of 5 inch slump.
8. Use of calcium chloride is strictly prohibited.

#### B. Subbgrade:

1. Gravel compacted to 95%

#### C. Reinforcement:

1. Fiber Reinforcement: ASTM C948, collated, fibrillated, 3/4 inch (19 mm) long virgin polypropylene fibers.
  - a. Welded Steel Wire Fabric: Plain type, ANSI/ASTM A185; in flat sheets; uncoated finish.

#### D. Color:

1. Integral Color:
  - a. Integral Coloring Admixture: Integral Color, synthetic oxide pigment, meeting ASTM C979 and C494.

- 1) Type A, cement dispersing/water reducing.
  - 2) Type D, set retarding/water reducing.
  - 3) Color to match Town's sample.
- E. Tools Selection:
1. Imprinting Tools:
    - a. Mat type imprinting tools for texturing freshly placed concrete, in pattern/texture as selected by Town or as scheduled.
- F. Release Agent Selection:
1. Powdered Release Agent. Color(s) as scheduled. Refer to Drawings.
  2. Liquid Release Agent. Clear color.
- G. Cure Agent:
1. Membrane Color Cure: Color(s) as scheduled. Refer to Drawings.
    - a. Curing Compound: Meeting ASTM C309, water-based emulsion.
  2. Silicate Cure & Densifier:
    - a. The concrete shall receive a cure treatment utilizing Bomanite Con Shield or approved equal.
- H. Sealing and Finish Coatings:
1. As approved by the Town.

## 2.3 RELATED MATERIALS

- A. Cement: ASTM C150, type 1, Portland cement, gray color.
- B. Fine and Coarse Aggregates: ASTM C33.
- C. Water: Clean and not detrimental to concrete.
- D. Form Material: Conform to ACI 301. If using metal, material shall be free from deformities. If using wood, use construction grade lumber, sound and free of warp, minimum 2 inches (51 mm) nominal thickness, except where short radii of curves require thinner forms.
- E. Form release agent: As acceptable to concrete colorant manufacturer, non-staining, dissipative type.
- F. Vapor Retarding Membrane: 10 mil (.2540 mm) reinforced polyethylene.
- G. Air-Entraining Admixture: ASTM C 206. Air Entrained Concrete shall be used wherever concrete is exposed to the freezing weather. Proportions of entrained air, as determined by ASTM C233, and C260, shall be as follows:
1. Aggregate: 3/8 inch (9.5 mm) maximum size aggregate 6-8 percent entrained air.
  2. Aggregate: 3/4 inch (19 mm) maximum size aggregate 5-7 percent entrained air.
- H. Joint Fillers:
1. Redwood Boards: Construction heart grade redwood, sound and free of checks, splits or other defects, 3/4 inch (19 mm) thick.

2. Asphaltic Joint Filler: Asphalt impregnated fiberboard, ASTM D1751, 1/2 inch (12 mm) thick.
  3. Non-Asphaltic Joint Fillers: ASTM D1752, Type I.
- I. Sealants: Two part polyurethane sealants, of grade as required to suit application, meeting ASTM C920, in manufacturer's custom colors.
  - J. Bonding-Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene rubber.
  - K. Epoxy-Bonding Adhesive: ASTM C 881, two component epoxy resin, capable of humid curing and bonding to damp surface, of class and grade to suit requirements if required, and as follows: Types I and II, non-load bearing, for bonding hardened or freshly mixed concrete to hardened concrete.

## PART 3 EXECUTION

### 3.1 INSPECTION

- A. Verify compacted subgrade is ready to support paving and imposed loads, free of frost, smooth and properly compacted.
- B. Verify gradients and elevations of base are correct, and proper drainage has been provided so water does not stand in the area to receive paving.
- C. Beginning of installation means acceptance of existing conditions.

### 3.2 PREPARATION

- A. If vapor retarding membrane is not used, moisten base to minimize absorption of water from fresh concrete.
- B. Notify Town and testing laboratory, minimum 24 hours prior to commencement of concreting operations.

### 3.3 FORMING

- A. Construct and remove forms in accordance with ACI 347.
- B. Place and secure forms to correct location, dimension, and profile. Adequately brace to withstand loads applied during concrete placement.
- C. Assemble formwork to permit easy stripping and dismantling without damaging concrete.
- D. Place joint fillers vertical in position, in straight lines. Secure to formwork during concrete placement.

### 3.4 INSERTS AND ACCESSORIES

- A. Make provisions for installation of inserts, accessories, anchors, and sleeves.



- B. Place vapor retarder continuously over subgrade. Overlap joints a minimum of 12 inches (305 mm) and seal with a joint tape of same permeance as sheeting material.

### 3.5 REINFORCEMENT

- A. Accurately place reinforcement in middle of slabs-on-grade.
- B. Discontinue every other bar of reinforcement at control and expansion joints.
- C. Place reinforcement to achieve slab and curb alignment as detailed.
- D. Steel shall be free of rust, mill scale, dirt and oil.
- E. Provide doweled joints at interruptions of concrete with one end of dowel set in capped sleeve to allow longitudinal movement. Provide support at both ends of dowels.
- F. Support reinforcing on bar chairs. Securely saddle tie at intersections. Rigidly secure in place to minimize displacement during concrete pour.

### 3.6 JOINTS

- A. Intentional stoppage of concrete placing shall be at planned location of either an expansion joint or contraction joint.
- B. When stoppage occurs at an expansion joint, install joint assembly with a bulkhead of sufficient section drilled to accommodate required dowels. Provide expansion joints at maximum 20 feet at pedestrian paving.
- C. When stoppage occurs at a contraction joint, install sheet metal joint assembly of sufficient section to prevent deflection, shaped to concrete section. Drill bulkhead to permit continuation of longitudinal reinforcing steel through construction joint.
- D. Stoppage at Unintentional Location:
  - 1. Immediately upon unintended stoppage of concrete placing, place available concrete to a line and install bulkhead perpendicular to surface of pavement and at required elevation. Place and finish concrete to this bulkhead. Remove and dispose of concrete remaining on subgrade ahead of bulkhead.
  - 2. When placing of concrete is resumed before concrete has set to extent that concrete will stand on removal of bulkhead, new concrete shall be rodded with the first; otherwise, carefully preserve joint face.
  - 3. Provide a joint seal space at edges created by a construction joint of this type shall have a joint seal space as detailed on Drawings.
- E. Provide sawed contraction joints in vehicular paving and curbs spaced as detailed on Drawings, but in no case greater than 20 feet spacing.
  - 1. Saw joints after completion of finishing operations as soon as concrete has hardened to extent necessary to prevent revealing of joint or damage to adjacent concrete surfaces.

2. Saw joints same day that concrete is placed except that sawing of joints in concrete placed late in day may be delayed until morning of following day.
  3. In any event, saw joints within 18 hours after placing concrete.
  4. Use a power-driven concrete saw made especially for sawing concrete and maintain in good operating condition.
  5. Saw cut shall be to a depth equal to 1/4 of slab thickness, minimum one inch (25 mm) depth.
  6. Align joints in vehicular paving with joints in adjacent pedestrian paving.
  7. Cut joints through curbs at right angles to back of curb.
- F. Place joint filler between paving components and building or other appurtenances.
- G. Provide scored joints in sidewalks and plazas to a depth of 1/4 the slab thickness, and at intervals as indicated, but in no case spaced greater than width of walk.

### 3.7 PLACING CONCRETE

- A. Place concrete in accordance with ACI 301, 302, and 304. Deposit concrete so that specified slab thickness will be obtained after vibrating and finishing operations. Minimize handling to prevent segregation. Consolidate concrete by suitable means to prevent formation of voids or honeycombs. Exercise care to prevent disturbance of forms and reinforcing and damage to vapor retarder. Place concrete to lines and levels shown, properly sloped to drain as designed.
1. Hot Weather Placement: ACI 305.
  2. Cold Weather Placement: ACI 306.
  3. Ensure reinforcement, inserts, embedded parts, and formed joints are not disturbed during concrete placement.
  4. Place concrete continuously between predetermined construction joints. Do not break or interrupt successive pours such that cold joints occur.
- B. After consolidating and screeding, float concrete to gradients indicated. Use a straight edge to level and test surface in longitudinal direction to required grade. Finish edges to provide a smooth dense surface with 1/8 inch (3 mm) radius.
- C. Apply approved color hardener prior to application of pattern. Apply at rate recommended by manufacturer, evenly to the surface of the fresh concrete by the dry-shake method. Applied in two or more shakes, floated after each shake and troweled only after the final floating.
- D. While concrete is still in its plastic state, apply the tool/texture pattern to the surface of the concrete. Properly tamp tools into the surface to achieve the required texture, with uniformity of pattern and depth of stamping. Utilize bond breaker to keep tools from sticking to fresh concrete.
1. Release material shall be applied to the troweled surface prior to imprinting.
- E. Place curing compound on exposed concrete surfaces immediately after finishing. Apply in accordance with manufacturer's instructions.
- F. Apply secondary stain treatment per approved mock-up or as scheduled to achieve design.

G. Apply finish sealer per approved mock-up or as specified to achieve design required.

3.8 PROTECTION

A. Immediately after placement, protect concrete from premature drying, excessive hot or cold temperatures, and mechanical injury.

END OF SECTION