

# TOWN OF WESTWOOD COMMONWEALTH OF MASSACHUSETTS

## Court Resurfacing Specification Downey Tennis Courts

### PROJECT SCOPE

The resurfacing of two (2) all weather asphalt tennis/(& pickleball) courts. Provide and install two (2) center strap anchors in concrete. Courts are located at 250 Downey Street, Westwood MA 02090

### PART 1 – GENERAL

#### 1.1 GENERAL REQUIREMENTS

- A. Court Lines: A) Tennis court boundary and service line dimensions to be in conformance with USTA standards. B) Pickleball lines to be painted in blue (to match existing) to standard dimensions for a total of four courts.
- B. Include GENERAL CONDITIONS and SUPPLEMENTARY CONDITIONS as part of this Section. Unless otherwise stipulated, the Contract and General Conditions of the Contract shall be the AIA A101 2007 Standard Form of Agreement between Owner and Contractor and the AIA A201 2007 General Conditions of the Contract.
- C. Examine all other Sections of the Specifications for requirements, which affect work under this Section whether or not such work is specifically mentioned in this Section.
- D. Coordinate work with that of all other trades affecting, or affected by work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.
- E. All personnel assigned to this contract must have an approved Criminal Offender Record Information (CORI) before the contract commencement. The contractor is responsible for ensuring any personnel working on school property have an approved CORI.

#### 1.2 WORK INCLUDED A. Perform all work required to complete the work of the Section, as indicated.

- A. Manufacturer's product data "cut sheets" for all surfacing materials and application methods shall be required as submittals prior to the first day of construction.



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- B. Submittals required at project kickoff meeting. On the first day of construction, prior to the commencement of construction activities other than layout of materials and site preparation, the Contractor shall meet with the Owner's Representative and at that time shall submit manufacturer's product data "cut sheets" for all surfacing materials and application methods, or, in lieu of submittals, shall have brought to the job site actual representative materials for review. This submittal shall include presentation of information on all materials proposed as well as the typical layer section of materials including acrylic binder, cushioned filler coats, finish coatings, colors, and line paints. The Owner shall have the right to reject materials that do not conform to the project specifications, and it shall be the Contractor's responsibility to obtain conforming materials and proceed with the job with no effect on project schedule or price.

### PART 2 – PRODUCTS

#### 2.1 GENERAL REQUIREMENTS

- A. Deliver all materials and equipment to the site in the original containers bearing the name of the manufacturer, and details for proper storage and usage.
- B. All materials or equipment delivered to the site shall be unloaded, temporarily stored, and transferred to the work area in a manner which shall not interfere with Building operations or occupants.
- C. Unloading and temporary storage sites, and transfer routes, must be approved in advance by the OWNER.
- D. Damaged or deteriorated materials may not be used and must be promptly removed from the premises.

#### 2.2 JOINT SEALANT AND CRACK REPAIR

- A. Crack repair product shall be an asphalt-compatible, 100% solids, non-hardening rubber crack-filler, by the same manufacturer, or as recommended by the manufacturer, of the Game Surfacing Materials used. Clean and fill all cracks over 1/8" in width. For all cracks over 3/8" in width, a compatible 4-layer flexible tape component system shall be used to provide a flat, durable base for the re-surfacing materials:

1. RITEWAY CRACK REPAIR: 4 Sycamore Way, Unit 7A Branford, CT  
06405



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### 2. ARMOR Crack Repair System, Dalton Coatings.

- B. Aggregate Base: For cracks over 3/4" in width, an aggregate base of crushed gravel, three-eighths inch (3/8") minus sand, and conforming to Town of Westwood DPW specifications for asphalt paving base, shall be provided.
- C. Expansion Joint: For replacement of existing expansion joints, provide an asphalt-compatible, self-sealing joint-filler, sized to fit existing joint per manufacturer's recommended sizing. WR Meadows Sealtight or equal.

### 2.3 GAMES SURFACING MATERIALS

- A. The surfacing shall be a minimum four (4) coat (including asphalt sealer-resurfacer, minimum two filler coats, and Finish Coat) 100% acrylic latex-type system containing no asphalt or tar emulsions and no vinyls, alkyds, or non-acrylic resins:
  - 1. Four Coat Acrylic System, manufactured by Nova Sports USA, Milford, MA 01757
  - 2. Acrylic Resurfacer manufactured by World Class Athletic Surfaces
  - 3. "Plexipave System", manufactured by California Products Corp., Cambridge, MA 02139.
  - 4. Latex-ite Acrylic Resurfacer and Latex-ite Acrylic color sealer, as manufactured by American Tennis Courts, Inc., Baltimore, Maryland, 1-410-477-4400,
- B. No color finish system shall be approved as an equal which does not contain factory mixed compositions requiring the addition of water only, on the site. The materials shall be delivered to the site in sealed, properly labeled containers.
- C. Colors for the surfacing have been selected from among Latex-ite standard range of colors. If an alternate equal product is selected, the colors shall be the colors that are closest to the selected colors, and shall be approved by the Owner at the kickoff meeting prior to application. The filler coats shall have the same color as the final finish coat. The filler coats shall provide uniformity of texture and depth of color to provide a non-slippery and non-shining playing surface of uniform color for not less than three years of



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intensive use as a recreational surface.

1. In-Bounds: Tournament Green.
  2. Out-of-Bounds: Red.
- D. Line Marking Paint: Line marking paint shall be 100% Acrylic Textured Line Marking Paint and Primer by the same manufacturer as the surfacing material and recommended by the manufacturer as compatible with the surface materials.
- E. The manufacturer shall guarantee the material for one year from date of finished application against chalking, checking, fading, discoloration, or other adverse effects from ultraviolet rays of the sun; from weather moisture, or from weather temperatures. The Contractor and the manufacturer shall provide jointly such written assurances as are satisfactory to the Owner's Representative that their materials and application will provide this performance.
- F. The resurfacing application shall result in a court surface with a Bounce of Medium Slow.

### PART 3 – EXECUTION

#### 3.1 GAMES SURFACING

- A. Contractors must notify the Owner's Representative of all applications, a minimum of 12 hours prior to installation.
- B. Tennis courts shall be cleaned using a stiff bristle broom and gas powered blower or water based pressure spray unit capable of generating 2500 psi at the nozzle tip, to remove all dirt and debris.
- C. The surface to be coated shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before starting work.
- D. Final Surface Inspection: prior to application of a color finish system the bituminous concrete base shall be flooded with water and allowed to drain. Any depressions thereupon holding water deeper than 1/8 in. shall be patched and leveled in accordance



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with recommendations of the manufacturer of the surfacing material specified above. Existing expansion joints shall be removed and replaced in conformance with requirements herein.

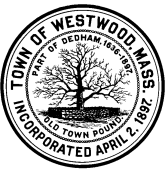
- a. Crack Repair: Existing cracks shall be thoroughly cleaned with pressurized air or water, as stated above, all loose material removed, fully dried, and measured, and repaired in conformance with requirements herein.
  - i. For cracks 3/8" in width or less, provide specified crack-filler material as specified the full depth of the crack. Scrape surface smooth following application of filler.
  - ii. For cracks greater than 3/8" in width, provide crack-filler and 4-Layer surface flexible tape system as specified. Follow manufacturer's written instructions for application.
  - iii. For cracks greater than 3/4" in width, all cracks shall have a minimum depth of 1", deepen crack to 1" minimum if necessary. Where cracks are deeper than 1 1/2", provide aggregate base course to within 1 1/2" of surface. Provide crack- filler and surface tape system as specified.
  - iv. Crack repair must be allowed to fully dry per manufacturer's instructions prior to application of resurfacing materials.
- E. Start of color surfacing application shall constitute acceptance by the Contractor of the bituminous concrete base surface to receive color surfacing.
- F. Application of the color finish course shall occur only after the bituminous surface course is thoroughly dry. The color finish material shall be applied to the surface course areas in multiple applications in the selected and approved colors so as to form a true, uniform surface texture and color. Application work shall be performed by skilled mechanics in a workmanlike manner in accordance with the manufacturer's standard printed instructions; however, no work shall be performed when rain is imminent or when the temperature is below 55 degrees F. Application shall proceed only if the surface is at least 50 degrees F and rising, and the surface temperature is not in excess of 140 degrees F.
- G. Application requires the use of a 24" to 48" long, flexible, 50 to 70 durometer rubber



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squeegees of good quality and in good condition.

- H. Apply one (1) application of asphalt resurfacer-sealer at the rate of .12 gallons per square yard (undiluted form). Mix resurfacer with potable water at the rate recommended/specified by the manufacturer. Allow material to cure at least twenty-four (24) hours prior to application of color coats.
- I. Apply multiple Filler Coats in accordance with the manufacturer's directions for a total minimum thickness of 1/16 in. The minimum number of filler coats shall be two (2). More coats shall be applied if the thickness requirement is not met. If the bituminous surface course is not covered to a uniform, even texture free of all porosity, another filler coat shall be applied to attain uniformity. The first coat shall be applied lengthwise on the bituminous concrete surface and the second coat shall be applied crosswise. Dilution rate shall not exceed 1 part water to 2 parts Filler Coat. The application rate of each Filler Coat shall be approximately 0.05 gallon/square yard.
- J. Color coats: Apply acrylic color sealer in minimum three (3) applications (including Finish Coat) for a total of .15 gallons per square yard (undiluted form). Mix color sealer with 80-100 mesh silica sand and potable water at rates specified by the manufacturer. Courts shall be thoroughly scraped between color sealer applications to remove ridges. Apply succeeding coat only after preceding coat has thoroughly dried (2-3 hours).
- K. Each coat in this system must dry completely before next application. Between each coat, inspect entire surface. Any defects should be repaired. Scrape surface to remove any lumps, and broom or blow off all loose matter.
- L. Prior to applying the Finish Coat, a final, careful inspection of the entire surface shall be made to remove any ridges, loose particles, or foreign particles.
- M. Finish Coat shall be applied as directed by the manufacturer at a rate of not less than 0.05 gallons of material per square yard (40 gallons per 800 square yards). The application shall be made lengthwise on the bituminous concrete surface with a wide hair type push broom and shall produce a uniform color throughout when viewed from a distance of 25 ft. from any edge of the court at midday. Dilution rate shall not exceed 1 part water to 1 part Finish Coat.
  - a. Colors shall be as indicated above under Products.



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- b. Court Bounce Rate shall be as indicated above under Products.
- N. Game Lines: Apply marking paint only after the color sealer has completely cured (two (2) to four (4) days depending on conditions). Accurately locate and mark game lines by snapping chalk lines. Use soft-soled shoes and kneepads to prevent surface indentation during marking and painting operations. Uneven line width and undulating or ragged line work shall be rejected.
- O. Provide and install two (2) center strap anchors in concrete.
- P. Contractor shall provide temporary barrier for safety and security of job-site.

**END OF SECTION**