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These “guideline” specifications are to be used by the A/E as a base document in the development of project/site-specific Division 2 – SITE WORK specifications for Montgomery County Public Schools Construction Projects. They may or may not be complete, correct and/or appropriate for use for any given project. It is the responsibility of the A/E to review these “guideline” specifications and to edit and/or supplement them as required to ensure that they represent the full, complete, correct and code-compliant specifications required for all construction of the project to which they apply. The use of these “guideline” specifications, and/or any information herein, in no way releases the A/E from their contractual responsibility to prepare and provide the full, complete and correct code-compliant contract documents, plans and/or specifications required for construction.

Review and editing of these “guideline” specifications shall be performed by appropriately licensed Maryland professional engineer. Specifications are to be prepared in Microsoft Word, edited using the “Track Changes” feature of that software and submitted to MCPS electronically on a compact Disk for review.

SECTION 02872 - TENNIS COURT SURFACING AND NETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General Conditions and Supplementary Conditions and Division 1 through Division 16 Specification Sections, apply to Work of this Section.

1.2 RELATED SECTIONS:

- A. Section 02520 – “Asphalt Pavement” and Section 02800 – “Chain Link Fences and Gates”

1.3 REFERENCE STANDARDS:

- A. Applicable standards and details of Maryland Department of Transportation "Standards and Specifications."

1.4 WORK DESCRIPTION:

- A. Construct tennis courts as indicated on Drawings, in number, size, and locations as shown. Work of this Section shall include following:
 - 1. Preparation of base pavement section for tennis courts shall be as indicated on Plans and as specified in Section 02520.
 - 2. Construction of court surface including game lines, net posts and footings and nets.

3. Existing perimeter court fencing shall be treated as indicated, and is covered under Section 02800. Coordinate court surface installation with treatment of existing fencing posts and installation of new fencing mesh.1.
 - B. Court surfaces shall be uniform in texture and color, in accordance with grades, cross sections and pitch required by drawings, and free of depressions and ridges.
- 1.5 SUBMITTALS:
- A. Submit court surface manufacturer's product data, catalog cuts, application specifications, maintenance information, and office samples.
- 1.6 QUALITY ASSURANCE:
- A. Installer of the court surfacing shall be certified by approved Manufacturer, and shall use only workmen who are trained and experienced in installation of court surface.
 - B. Do not store resurfaces or color system materials in direct sunlight. During cold weather, store materials in a manner to prevent freezing. Materials shall be kept sealed in original containers until ready for use.
- 1.7 WARRANTY:
- A. Provide minimum one (1) year warranty, commencing from date of Owner acceptance, covering materials and installation. Contractor shall repair or replace defective surface, at no cost to Owner, during warranty period.

PART 2 – PRODUCTS

2.1 MATERIALS:

- A. Court Surfacing:
 1. Approved Manufacturer: "Latex-ite" asphalt resurfacer, " Latex-ite" crack and leveling compound and "Latex-ite" acrylic color sealer, as manufactured by American Tennis Courts, Inc., Baltimore, Maryland, 1-410-477-4400, or pre-bid approved substitution.
- B. Tennis net posts: 2 7/8 inch O. D. galvanized steel posts with "dark green" or "black" (depending on school colors and confirmed with MCPS Project Manager) epoxy finish and heavy duty external take-up winding device, equipped with quick release, detachable winding handle.
 1. Approved manufacturer: "Super Pro Deluxe" by American Tennis Courts, Inc., or pre-bid approved substitution in accordance with Section 01630.
- C. Tennis net tie down: As manufactured by American Tennis Courts, Inc., or pre-bid approved substitution.
- D. Tennis nets: Double synthetic spun polyester headband, quadruple sewn to a braided polyethylene body, with black vinyl side pockets, double sewn bottom band, and incorporating spur grommets and fiberglass dowels. Net shall not crack, yellow, pink, face, or show effects from acid rain. Net shall remain pliable in cold weather. Net dimensions: 41'-9" long x 3'-3" high.

1. Netting: Single twine mesh, made from heavy-duty 3mm black braided polyethylene, with minimum B/S of 285 pounds. Mesh shall be 1-3/4 inches square.
 2. Cables: 6mm diameter PVC coated wire, with mechanically spliced double loops.
 3. Dowels: 10mm diameter polished fiberglass.
 4. Grommets: Nickel-plated brass, spur type.
- E. Windscreens: Open mesh polypropylene, minimum 75 percent blockage, with reinforcing center tape and vinyl-coated steel wire rope. Reinforced hems and brass grommets spaced at 12 inches on center, top and bottom. Height shall be 9 feet, color shall be dark green.
- F. Game Lines: Two (2) inch wide white lines, 100% acrylic game line paint. Oil base paint or lacquer is not acceptable.
- G. Court surface base: Refer to Section 02520, Hot-Mixed Asphalt Paving, and as indicated on Contract Drawings.
- H. Concrete for footings and anchors: MDOT Class "3", 3500 PSI.
- I. Tennis Backboard: Provide tennis backboard, 10 feet high by 16 feet wide (four 4 foot wide panels). Backboard shall be constructed of solid U.V. stabilized, plastic sheet, with corrosion resistant mounting hardware. Provide mounting hardware to suit project conditions. Color of each panel shall be green with a horizontal with "net" stripe.

PART 3 - EXECUTION

3.1 INSPECTION:

- A. Examine areas and conditions under which Work of this Section shall be installed. Correct conditions detrimental to proper condition of Work. Do not proceed until unsatisfactory conditions have been corrected.
- B. Do not install court surfacing when ambient temperature is below 50°F or above 140°F. Do not apply when rain is imminent.

3.02 PREPARATION:

- A. Prepare base pavement section for tennis courts as indicated on drawings and as specified in Section 02520. Base shall be allowed to cure for a minimum of fourteen (14) days prior to application of court surfacing.
- B. Net posts, footings, and tie-downs shall be installed prior to placing Superpave base course. Footings shall be held 2" below finish grade, with top of sleeves extending to finish grade.
- C. Prior to applying court surfacing, flood court area with water. Allow water to stand for one (1) hour at a minimum temperature of 75° with sun. Any areas exhibiting standing water or "birdbaths" over 1/16" in depth shall be marked for patching. Patch areas as follows:
 1. Using a straightedge of sufficient length to bridge low area, screed an application of "Latex-ite" Resurfacer or Crack and Leveling Compound, or comparable compound recommended by a pre-bid approved Manufacturer.
 2. After patching has cured, check patched area with a stringline to insure that area has been brought flush with surrounding surface.

3. Roller marks: Apply asphalt patching and leveling compound along roller marks and feather with a squeegee.
- D. After patching, completely clean court base surface by means of high powered blowers, removing dust, dirt and debris, and leaving areas completely dry.

3.3 COURT SURFACING:

- A. Apply one (1) application of asphalt resurfacer at rate of 0.12 gallons per square yard (undiluted form). Mix resurfacer with potable water at rate recommended/specified by manufacturer. Allow material to cure at least twenty-four (24) hours prior to application of color coats.
- B. Color coats: Apply acrylic color sealer in three (3) applications for a total of 0.15 gallons per square yard (undiluted form). Mix color sealer with 80-100 mesh silica sand and potable water at rates specified by 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).
 1. Colors shall be selected by Architect.
- C. Game Lines: Apply marking paint only after 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.

3.4 FOOTINGS, NET POSTS, AND FIXTURES:

- A. Footings: Footings shall be two (2) feet by two (2) feet by three (3) feet in depth, with a minimum 30 inch belled bottom.
- B. Ground sleeves shall be schedule 40 PVC pipe, 24" long, six (6) inches above top of 2 inch base course.
- C. Tie downs: Install center tie-down anchors, compatible with nets. Anchors shall be set in twelve (12) inch by twelve (12) inch by twelve (12) inch deep footings. Top of footings shall protrude four (4) inches above top of 2 inch base course.

3.5 NETS AND ACCESSORIES:

- A. Install nets and winding devices in accordance with manufacturer's written instructions.

3.6 WINDSCREENS:

- A. Install windcreens in accordance with manufacturer's written instructions. Assure that windcreens are tight and secure.

3.7 TENNIS BACKBOARD:

- A. Install backboard in accordance with manufacturer's written instructions. Assure that backboards are tight and secure.

3.8 PROTECTION:

- A. Protect tennis court surfaces, posts, tie downs, nets and winding devices from damage by work of other trades until accepted by Owner.

3.9 CLEAN-UP:

- A. Remove excess materials and debris associated with Work of this Section from Project area and legally dispose of offsite.

END OF SECTION