

DIVISION 2 - SITEWORK

Conditions of Use/Responsibility of Data

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 02790 - SYNTHETIC RUNNING TRACK SURFACE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

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

1.2 RELATED SECTIONS:

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

1.3 REFERENCE STANDARD:

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

1.4 WORK DESCRIPTION:

- A. Construct synthetic running track surface as indicated on civil drawings. Work of this section shall include following:
 - 1. Excavation and preparation of sub-grade for area designated to receive track surfacing. Legally dispose of excess materials offsite.
 - 2. Construction of a suitable base for track surfacing.

3. Construction of track surfacing, including lane striping.
 4. Perimeter fencing is covered under Section 02800.
- B. Track surfacing shall be uniform in thickness, texture, and color, in accordance with grades, cross sections, and pitch required by Drawings, and free of all depressions and ridges.
- 1.5 SUBMITTALS:
- A. Submit running track surfacing manufacturer's product data, catalog cuts, application specifications, maintenance information and office samples.
- 1.6 QUALITY ASSURANCE:
- A. installer of running track shall be certified by approved manufacturer, and shall use only workmen who are trained and experienced in installation of track surface.
- B. Running Track: finished system shall meet following criteria:
1. Force Reduction: 30 percent to 50 percent, inclusive.
 2. Modified Vertical Deformation: 0.6mm to 1.8mm, inclusive.
 3. Resistant to scuffing and shedding of granules.
- C. Single Source Responsibility: Track surfacing materials shall be supplied by one manufacturer. Track and field event surfacing and equipment construction shall be provided by a Contractor with a minimum of 5 years experience in construction of similar projects.
- D. Construction shall be performed in strict accordance with written instructions of surfacing and equipment Manufacturers.
- 1.7 WARRANTY:
- A. Provide a minimum one (1) year warranty, covering materials and installation. Contractor shall repair or replace defective surface, at no cost to Owner during warranty period.

PART 2 - PRODUCTS

- A. Running Track Surfacing: A vented latex surface consisting of a mixture of uniformly graded Styrene Butadiene Resin (SBR) base and intermediate layer rubber granules and EPDM surface layer rubber buffings, bound together with SBR polymer binder having a minimum of 50 percent resin solids content. Nominal thickness: 3/8 inch. Gradation of granules: Between 1 and 6 millimeters containing less than 4 percent dust when retained on a number 30 sieve.
1. Approved Manufacturers:
 - a. "Reflex-CT" Vented Latex Running Track Surface, American Tennis Courts, Inc., Baltimore, Maryland (basis of specification).
 - b. "MaxflexBL," Precision Sports Surfaces, Inc., Charlottesville, Virginia.
 - c. Pre-bid approved substitution in accordance with Section 01630.

- B. Marking Paint: 100 percent acrylic line marking paint approved by the track surface manufacturer.
- C. Track Surface Base: Asphalt Track Surface Base Course: SHA Hot Mix Asphalt Superpave: Section 901.01, 904.01 and 904. over 4 inch SHA Hot Mix Asphalt Superpave Base Course: SHA Sections 901.01, 904.01 and 904 (gradations shall be as shown on approved drawings) over 8 inch SHA Graded Aggregate Base Section 901.01 – Table B compacted to 95 percent proctor density and cement treated.
- D. Any substituted system must be submitted for approval by the Owner's Representative.
- E. Colors: Surface base color shall be selected by Architect. Line marking colors shall be in accordance with track and field standards, or as otherwise directed by the Owners' representative.

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 completion of Work. Do not proceed until unsatisfactory conditions have been corrected.

3.2 PREPARATION:

- A. Fill excavated areas to minimum depths of stone and bituminous concrete base as indicated in PART 2. Base shall be allowed to cure for a minimum of fourteen (14) days prior to application of running track surface. Base shall be clean, dry, free draining, and free of foreign materials.
- B. Verify weather conditions before beginning installation of track surface. Do not place track materials when ambient nighttime temperature is expected to fall below 50°F.

3.3 INSTALLATION:

- A. Once base has cured, and prior to installation of track surface, apply a prime coat of manufacturer's approved binder (one (1) part water to one (1) part binder). Apply in rate (gallons per yard) as specified by Manufacturer. Asphalt emulsions are not acceptable.
- B. Base layer: Evenly apply rubber granules manually or by means of mechanical spreader, at rate specified by Manufacturer. Base layer shall be saturated with approved binder, mixed and spray-applied in accordance with Manufacturer's specifications. Allow this layer to cure for a minimum of twenty-four (24) hours under dry weather conditions.
- C. Apply second and third layers of rubber granules, installed in same manner as base layer, at rate as specified by Manufacturer. Saturate this layer with approved binder.
- D. Surface course: Apply rubber buffings in number of applications and rates (2.6 pounds per square yard) as required by Manufacturer's specifications. Final surface layer shall be pigmented black.
- E. Line Marking:
 - 1. Using approved line marking paint, install all striping in accordance with National Federation of High Schools for 400 meters running surfaces. Required striping, including event markings and lane numbers, shall receive two (2) coats of paint.

2. Lane striping shall be based on 42 inch lane widths measured center to center of lane lines.

3.4 POST CONSTRUCTION TESTING AND ACCEPTANCE:

- A. Finished running track surface shall be uniform in thickness and texture. Thickness shall meet Manufacturer's minimum recommended thickness. Owner reserves right to perform thickness testing, and if found non-compliant, require Contractor to install additional courses until recommended minimum is achieved. Owner also reserves right to reject installation based on non-uniform distribution of granule sizes.

3.5 PROTECTION:

- A. Protect running track surfaces from damage by work of other trades until accepted by Owner.

3.6 CLEAN UP:

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

END OF SECTION