

Invitation to Bid  
20160621-Running Track

Responses to an Invitation to Bid will be received by the Purchasing Supervisor, Sumner County Board of Education, 1500 Airport Road, Gallatin, TN 37066 for 20160621-Running Track until 10:00 a.m. CDT June 21,2016 Bid responses will be opened at that time, taken under advisement and evaluated. Should you have any questions please call Don Long. [don.long@sumnerschools.org](mailto:don.long@sumnerschools.org) All proposals are subject to the Board of Education's conditions and specifications which are available from Vicky Currey, Purchasing Supervisor (615) 451-6560. All bids can be viewed on line at [www.sumnerschools.org](http://www.sumnerschools.org).

## NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor in the SUPPORT SERVICE FACILITY CONFERENCE ROOM, Sumner County Board of Education, and 1500 Airport Road Gallatin, TN 37066. They will be received until **10:00 A.M. Local Time June 21, 2016** for **20160621 Running Track** at which time the responses will be opened, taken under advisement and evaluated. **BIDS WILL BE POSTED ON [www.sumnerschools.org](http://www.sumnerschools.org)**

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### GENERAL REQUIREMENTS AND CONDITIONS

1. The Sumner County Board of Education reserves the right to accept or reject any and/or all responses in whole or in part, and to waive informalities therein.
2. Any responses received after the scheduled closing time for the receipt for responses will not be considered.
3. If a mistake is discovered after the responses are received, only the Sumner County Board of Education may allow the respondent to withdraw the entire response.
4. Partial payments will not be approved unless justification for such payment can be shown. Terms will be net 30 days.
5. Payment will not be made until the said **Running Track** are inspected and approved as meeting all specifications by persons appointed by the Sumner County Board of Education.
6. Responses submitted must be in a sealed envelope and marked on the outside as follows:  
**RESPONSE: 20160621 Running Track**  
**DEADLINE: June 21, 2016 10:00 a.m. local time**  
  
**Pre-bid Conference will be held at 10:00 A.M. Thursday June 9, 2016 Hendersonville High School 123 Cherokee Road Hendersonville, TN 37075 Conference shall be mandatory bidding the project**
7. Facsimile responses will not be considered.
8. If a successful bidder violates any terms of their bid, the contract, school board policy or any law they may be disqualified from bidding for a period of two years for minor violations or longer for major violations. Bids from disqualified bidders will not be accepted during the period of disqualification.
9. Prices quoted on the response (if any) are to be considered firm and binding until the said **Running Track** are in the possession of the Sumner County Board of Education.
10. No purchase or contract is authorized or valid until the issuance of a Board Purchase Order in accordance with Board Policy. No Board Employee is authorized to purchase equipment, supplies or services prior to the issuance of such a Purchase Order.
11. Any deviation from these stated terms, specifications and conditions must be coordinated with and approved in writing by the Purchasing Supervisor, Vicky Currey (615) 451-6560.
12. All bids that exceed \$25,000 must have the Company Name, License Number, and Expiration Date thereof and License Classification of Contractor listed on outside of sealed envelope. As required by State of Tennessee Code Annotated 62-6-119.
13. The awarded bidder will be required to post a performance and payment bond in the amount of 25% of the contract price if it exceeds \$100,000 as stated by State of Tennessee Code Annotated 12-4-201.
14. If the project cost in excess of \$25,000 a performance bond must be secured by the requesting

# **Sumner County Schools**

## **IMPERMEABLE STRUCTURALLY SPRAYED BASE MAT SYSTEM PRODUCT SPECIFICATIONS**

### **Part 1 – General**

#### **1.1 Summary**

The Synthetic Surfacing Contractor shall furnish all materials, labor, supervision and equipment necessary for the accurate completion of the epiQ TRACKS V300, or equal, synthetic track installation and all project specific work indicated on the plans and specifications. Installation will be at Hendersonville High School, 123 Cherokee Road, Hendersonville TN 37075.

The guidelines established in this specification are to be considered minimum acceptable standards for installing a synthetic polyurethane track surface.

It is the responsibility of the Synthetic Surfacing Contractor to review the plans, specifications, field conditions and verify the locations where the epiQ TRACKS V300, or equal, surface is to be installed.

Contractors wishing to be considered as an “or equal” must provide documentation for their products at least 10 days prior to the bid opening.

#### **1.2 Scope of Work**

- a. The Synthetic Surfacing Contractor shall install an impermeable paved-in-place synthetic sport surface comprising of a base layer of polyurethane bound rubber granules, sealed, then topped with a spray-applied coat of one or two-component polyurethane and EPDM granules.
- b. Layout and paint all track line and event markings in accordance with the latest edition of the IAAF, NCAA, NFHS or UIL rules and regulations, as applicable.

#### **1.3 Coordination**

Conduct operations while minimizing interference with other subcontractors on site. Do not obstruct walks, or other occupied facilities without permission from the Owner. Perform work while minimizing disturbance to Owner's scheduled events on the facility.

### **Part 2 – Standards and Codes**

#### **2.1 Guidelines**

Guidelines to be followed on this project are those set forth by the IAAF, NCAA, NFHS or UIL, as applicable; along with the current material testing guidelines as set forth by the American Society of Testing and Materials (ASTM).

## 2.2 System Performance

- |   |  |
|---|--|
| a. Thickness:                             | 1/2" (13mm) or as specified                  |
| b. Shore A Hardness (ASTM D-2240):        | 55 +/-5                                      |
| c. Elongation at break (ASTM D-412):      | ≥ 40%  |
| d. Tensile Strength (ASTM D-412):         | 0.80 N/mm2 @ 70F                             |
| e. Compression Set Recovery (ASTM D-412): | 90-95% @ 70F over a 24-hour period           |
| f. Abrasion Resistance (ASTM D-501):      | 0.25 grams loss after 1000 cycles            |
| g. Chalking (ASTM D-822):                 | No change after 1000 hours in weather meter. |
| h. Coefficient of Friction (ASTM D-1984): | Dry: 0.70-0.75 / Wet: 0.60-0.65              |
| i. Resilience (ASTM D-2632):              | 38-42%                                       |
| j. Tear Resistance (ASTM D-624):          | 60-75 psi                                    |

## 2.3 Quality Assurance

- a. The Synthetic Surfacing Contractor shall have a minimum of 8 years of experience in the installation of polyurethane synthetic tracks similar to the one being installed on this project.
- b. The polyurethane materials shall be made in the United States.
- c. Manufacturer's chemist must have at least 10 years of experience in the manufacturing and compounding of two-part polyurethane designed specifically for sports surfaces.
- d. The Synthetic Surfacing Contractor shall have experience installing IAAF certified track systems.
- e. The Synthetic Surfacing Contractor shall attest that all track surfacing material meets or exceed the requirements defined by the project specifications. Test data shall be submitted which shows that the product meets the required quality standards.
- f. The Synthetic Track Installation Supervisor must have installed a minimum of 10 similar polyurethane tracks in the last 3 years.
- g. Verification of above qualifications shall be included with bid submittal.

## Part 3 – Submittal Data

The following submittal data must be received as part of the bid submittal.

- a. Standard printed specifications of the polyurethane track system being installed as part of this project.
- b. A reference list showing similar projects installed in the last 8 years.
- c. A synthetic track surface sample a minimum of 8"x11" in size of the track system being installed on this project.
- d. Striping diagram to be approved by owner.

## Part 4 – Materials

### 1. Primer

Polyurethane-based primers specifically formulated to be compatible with the base and track surfacing material.

### 2. Black SBR Granules

The rubber granules for the base mat shall be recycled SBR rubber (Styrene Butadiene Rubber), processed and chopped to 1mm-3mm size, containing less than 4% dust.

### 3. EPDM Granules

The rubber granules for the structural spray wearing coats shall be EPDM peroxide cured, man-made rubber containing a minimum of 18-20% EPDM and having a specific gravity of 1.5 +/-0.08. The EPDM rubber will be 0.5mm-1.5mm EPDM granules. EPDM granules shall be of the same color as the polyurethane. Color to be black, or as chosen by the Owner.

### 4. Polyurethane Binder

Binder for the black rubber mat shall be an MDI-based and or MDI/TDI mixture, mono-component, polyurethane-binding agent. The binding agent shall not have a TDI monomer level above 0.2%, must be clear or black in color, not milky, and must be solvent free. The binding agent must be specially formulated for compatibility with SBR rubber crumb.

### 5. Polyurethane (Seal Coat)

A pore sealer; minimizing component stretching shall be applied directly onto the base mat. The sealer shall provide a thixotropic effect to seamlessly bind the base mat and polyurethane layer together

The sealer shall create a mechanical lock with the subsequent layer, without the use of rubber dust.

The seal coat shall be solvent free, two-component, thixotropic polyurethane-based on MDI. It shall be designed to completely seal base mat prior to topcoat application.

The topcoat shall be a UV stabilized, self-leveling, two-component polyurethane based on 100% MDI. The polyurethane shall be solvent free, "TDI Free", and contain no mercury, lead, or any other heavy metals as defined by the EPA. All polyurethane materials shall be made in the United States.

### 6. Structural Spray Coating

The spray coating shall be the MDI-based and or MDI/TDI mixture, one or two component, moisture-cured, pigmented polyurethane, specifically formulated for compatibility with EPDM granules. The coating shall be the color black, or as chosen by the Owner of the track surface.

## 7. Line Marking Paint

The line marking paint shall be polyurethane-based, single component, moisture cured paint specifically manufactured to be compatible with polyurethane synthetic track surfaces.

## Part 5 – Execution

### 1. Sub-base

The contractor shall remove the existing running surface and utilize the existing asphalt sub base.

For NCAA certification, the following criteria must be followed. The track surface i.e., asphalt substrate, shall not vary from planned cross slope by more than  $\pm 0.1\%$  with a maximum lateral slope outside to inside of 1% and a maximum slope of 0.1% in any running direction. The finished asphalt shall not vary under a 10' straight edge more than 1/8".

It shall be the responsibility of the Contractor to flood the surface immediately after removal of the existing running surface and the asphalt is capable of handling traffic, but within 24 hours. If, after 20 minutes of drying time, there are birdbaths evident, it shall be the responsibility of the Owner, in conjunction with the Synthetic Surfacing Contractor, to determine the method of correction. No cold tar patching, skin patching or sand and oil mix patching will be acceptable.

Any oil spills (hydraulic, diesel, motor oil, etc.) must be completely removed, by either chipping out or removing and replacing with new, keyed in asphalt. The minimum depth of any asphalt replacement shall be one inch. The curing time for the asphalt is 14-21 days. It shall be the responsibility of the surfacing contractor to determine if the asphalt substrate has cured sufficiently prior to the application of polyurethane surfacing system.

It shall be the responsibility of the general contractor to determine if the asphalt substrate meets all design specifications, i.e. cross slopes, planarity and specific project criteria.

Upon completion of surface test and correction of any defects, track surface contractor shall submit to Engineer or Owner a signed certificate stating the existing surface is acceptable and satisfactory for the installation of his track surface system.

### 2. Synthetic Track Surface

The Synthetic Track Surface must be able to be laid on any smooth, stable base such as asphalt or concrete.

Color: Black, as specified by Owner. Colors other than black must be custom-blended and carry additional cost, and require approval of owner. A contrasting standard gold (yellow) color in the exchange zones, color to be determined by the Owner, shall be required. See drawing for details.

### 1. Curing

Before application of the synthetic surface can begin, any new asphalt should be cured for at least 14- 21 days, and any new concrete base for a minimum of 28 days.

## 2. Cleaning

The area to be surfaced shall be clean and free of any loose or foreign particles (dirt, oil, etc.) prior to commencement of the work. The surface is usually cleaned by use of a power blower and/or high-pressure washer.

## 3. Priming

The primer shall be spray-applied in accordance with the Manufacturer's specifications. Only those areas that can be installed the same day should be primed.

## 4. Black Mat

Job mix formulas shall be as follows:

SBR Rubber	1mm-3mm
Binding Agent	18-20% of total rubber weight

The black SBR rubber granules and polyurethane binding agent must be blended together using state of the art automatic metering mixer for a period of 2-3 minutes for a precise measured ratio. No hand mixing is allowed.

The blended materials are then spread onto the asphalt/concrete base by means of a fully automatic paving machine with control sensors at a rate of 16-16.5 pounds per square yard. The fully automatic paving machine shall have a heated oscillating screed bar to obtain both smoothness and compaction. The heated screed bar shall be operated at a temperature of 158°F to 176° F.

The laying procedure shall be bay-to-bay and limiting the length of the passes to avoid having any cold (cured) joints between the bays. At the beginning of each new day's work, the traverse joint from the previous day's work shall be tack coated to ensure a good bond. Small irregularities, remaining in the surface after the fully automatic paving machine has passed, may be removed using a light polyethylene or Teflon roller or hand trowelled.

**Synthetic track materials are to be placed only when temperature is above 45°F and rising.**

No materials should be placed when surfaces are wet or damp, precipitation is falling or imminent, or when other unsuitable conditions for the installation of the system are present.

## 5. Impermeable Layer

The polyurethane seal coat A and B components are mixed at the prescribed ratio using a state of the art automatic metering mixer for a precise measured ratio, then squeegee-applied to the base mat, making it impermeable.

## 6. Structural Spray Wearing Coats

Job mix formulas shall be as follows:

Structural Spray	60% by weight
EPDM Rubber 0.5mm-1.5mm	40% by weight

After the black mat has properly cured, apply a thixotropic mixture, using black structural spray and black EPDM granules, mixed using state of the art automatic metering mixer for a precise measured ratio, then spray-applied using the latest air spray equipment designed to handle this heavy rubber mixture. The structural spray coating is applied in two applications utilizing 1.80 pounds per square yard for each application.

#### 7. Line Markings

All line and event markings shall be applied by experienced personnel utilizing polyurethane based paint compatible with the synthetic track surfacing.

All marking dimensions will be certified in accordance with the specifications issued by the appropriate sanctioning or governing body such as IAAF, NCAA, NFHS or UIL, as applicable.

**No striping operations may commence if temperature is 45°F and falling.**

Do not place any paint under wet or damp conditions or when relative humidity is above 85%.

The line-striping machine shall be capable of producing neat, clean edges on all lines.

### Part 6 – Warranty

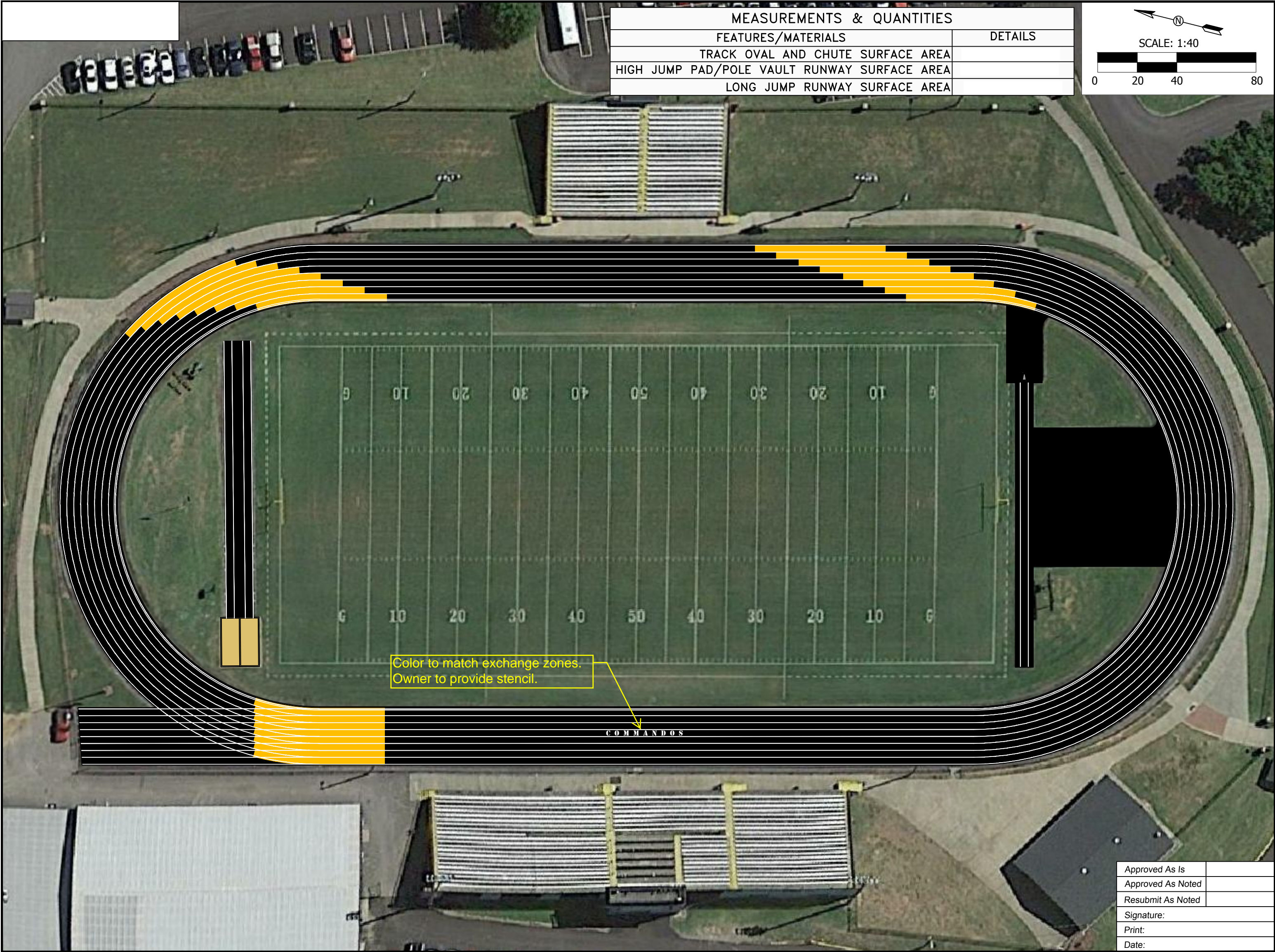
epiQ TRACKS V300, or equal, must be warranted against defects in workmanship, labor and materials under normal use and service for a period of (60) sixty months. The warranty excludes any damage or defects caused by improper design or engineering, by an inadequate or defective base, by normal wear and tear, vandalism, abuse, neglect, lack of maintenance, or acts of God.

### Part 7 – Installer

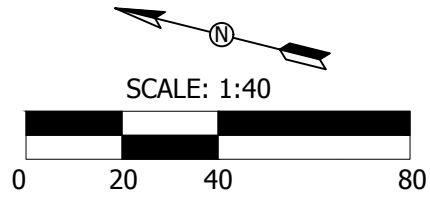
epiQ TRACKS V300, or equal, shall be installed only by trained craftsmen who are full time employees. No outside installer or distributor will be sold or furnished with epiQ TRACKS material for installation unless licensed by Manufacturer.

It is a requirement of this specification that the selected installer shall be required to provide a Performance Bond and Payment Bond.





MEASUREMENTS & QUANTITIES	
FEATURES/MATERIALS	DETAILS
TRACK OVAL AND CHUTE SURFACE AREA	
HIGH JUMP PAD/POLE VAULT RUNWAY SURFACE AREA	
LONG JUMP RUNWAY SURFACE AREA	



Color to match exchange zones.  
Owner to provide stencil.

COMMANDOS

Approved As Is	
Approved As Noted	
Resubmit As Noted	
Signature:	
Print:	
Date:	

HENDERSONVILLE HIGH SCHOOL  
8 LANE SYNTHETIC TRACK SURFACE OVERLAY  
Hendersonville, Tennessee

DATE: MAY 27, 2016

ISSUE: PROPOSAL

SHEET: 1 OF 1



**SUMNER COUNTY BOARD OF EDUCATION**

Purchasing Department  
1500 Airport Road  
Gallatin, TN 37066

COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

\_\_\_\_\_

TELEPHONE \_\_\_\_\_

EMAIL \_\_\_\_\_

AUTHORIZED COMPANY  
REPRESENTATIVE \_\_\_\_\_ *SIGNATURE*

AUTHORIZED COMPANY  
REPRESENTATIVE \_\_\_\_\_ *PRINTED*

DATE \_\_\_\_\_

BID TITLE      20160621- Running Track Hendersonville High School  
Pre-Bid          Thursday June 9, 2016 10:00 a.m. local time (Hendersonville High School

DEADLINE      June 21, 2016 10:00 A.M. Local time

BID AMOUNT      \$ \_\_\_\_\_

BID TOTAL      \$ \_\_\_\_\_

BID GOOD THRU      \_\_\_\_\_

NOTES: \_\_\_\_\_

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