November 18th, 2026

REQUEST FOR PROPOSALS

Track Resurface and Turf Replacement
Kearney High School

Kearney Public Schools
Facilities Department
Kearney, Nebraska 68845

Trent Bosard
Director of Facilities

Request for Proposals

I. INSTRUCTIONS TO BIDDERS.

Kearney Public Schools District is requesting proposals for Kearney High School track resurface/stripping and football field turf replacement. The District will receive proposals until 2:00 PM, December 22nd, 2026 in the office of the Director of Facilities, 417 East 6th Street, Kearney, Nebraska. To receive the RFP and a copy of the specification contact the Director of Facilities Trent Bosard at trebosard@kearneycats.com or 308.627.1198.

See attached Specification for the track resurface/stripping and the football field turf replacement.

Each Bidder must provide a sample copy of insurance. Samples of track structural resurface and football field turf. Also provide a list of 5 project completed in the last 5 years that are similar in specification outlined for this project.

Sealed proposals will be received at the office of the Director of Facilities, 417 East 6th Street, Kearney, NE. 68845 until 2:00 p.m. Tuesday December 22nd , 2026.

At that time, the proposals will be opened and reviewed by the Director of Facilities. Bidders are welcome to attend, however a final decision on the award of the contract will not be made at that time. Bid security is required. Kearney Public Schools reserves the right to accept or reject any or all proposals and to waive any irregularities.

No proposal may be withdrawn within thirty (30) days after the actual date of the opening thereof. The District reserves the right to reject any or all proposals, with or without cause, to waive irregularities in proposals submitted, and to hold and consider as many proposals as deemed necessary for a period of thirty (30) days after the proposals are opened.

Lowest and best proposal will be determined on basis of adherence to specifications, bid amount, and timing as indicated on the proposal.

Bids shall be submitted on the bid form provided in this document. Bid numbers shall be stated in both writing and in figures; the signature shall be in longhand; and the complete form shall be without interruption, alteration, or erasure. No oral, telegraphic, faxed or telephonic proposals or modifications will be considered.

If the bid only covers one of the scopes of work, please note it on your proposal at the time of bidding.

Proposals shall be delivered to the owner, and marked "Proposal—KHS Track and Football Field," shall have the name of the bidder, and shall be addressed to the owner: Trent Bosard Director of Facilities, Kearney Public Schools, 417 East 6th Street, Kearney, NE 68845.

II. BID SECURITY & BONDS

Each bid must be accompanied by a certified check or bid bond in the amount of five percent (5%) of the base proposal(s), as a guarantee of good faith, drawn on a solvent bank or bonding service, and made payable to Kearney Public Schools, Kearney, NE. Bid bonds may be forfeited to Kearney Public Schools if the proposal is accepted, the contract is awarded, and the bidder or bidders fail to enter into a contract within ten (10) days after the contract is awarded. Other bid bonds will be returned after the executed contract and required insurance papers have received final approval by the Director of Facilities. The successful bidder(s) is required to deliver a performance bond and labor & material payment bond in the amount of 100% of the contract sum within fourteen (14) days of receipt of notice of acceptance.

III. INSURANCE

The insurance required shall be written for not less than the following, or greater if required by law. Coverings, whether written on an occurrence or claims made basis, shall be maintained without interruption from the date of the commencement of the work until the date of final payment and termination of any coverage required to be maintained after final payment.

1. Workman's Compensation
   A. State: Statutory
   B. Employers liability:
      $500,000.00 each accident
      $500,000.00 disease, policy limit
      $500,000.00 disease, each employee

2. General Liability (including premises - operations, independent contractors protective; products and completed operations; broad from property damage):
   A. Bodily Injury
      $1,000,000.00 each occurrence
      $2,000,000.00 aggregate
   B. Property Damage
      $1,000,000.00 each occurrence
      $2,000,000.00 aggregate

C. Products and Completed Operation to be maintained for two years after final payment, and the contractor shall continue to provide evidence of such coverage to the owner on an annual basis during the afore mentioned period.
D. Property Damage Liability Insurance shall provide X (explosion) C (collapse) and U (underground) coverage.
E. Contractual Liability (hold harmless coverage):
1.) Bodily Injury:
$1,000,000.00 each occurrence
2.) Property Damage:
$1,000,000.00 each occurrence
$2,000,000.00 aggregate
F. Personal Injury (with employment exclusion deleted, if applicable)
$2,000,000.00
G. If the General Liability Policy includes a general aggregate, such general aggregate shall not be less than $2,000,000.00. The policy shall be endorsed to have general aggregate apply to this project.

3. Umbrella Excess Liability
A. $2,000,000.00 over primary insurance
B. $10,000.00 retention
4. Automobile Liability (owned, non-owned, hired)
A. Bodily injury
$1,000,000.00 each person
$1,000,000.00 each accident
B. Property Damage
$1,000,000.00 each occurrence

IV. JOB CONDITIONS

Bidders are required to inform themselves fully on all conditions relating directly or indirectly to the successful completion of the projects. Bidders are to inform themselves fully on the existence of, and proper legal removal and disposal of, any materials which may be considered or classified as hazardous or friable materials. All disposal costs are to be included in the proposal.

Bidder is responsible for all new and old material on site and shall take all reasonable measures to ensure that loose material is secured against high winds, moisture, and vandalism.

The project shall be completed by August 1, 2027. The contractor selected for this project can start after written approval of the bid is received by the contractor. If you have any questions about this project contact Trent Bosard, Kearney Public Schools Director of Facilities

Any property, used for access to the work area, must be protected from any damage. The selected contractor is responsible for all repair caused by damage, with no expense to the owner. Repair to a damaged shall not void any existing warranties.

Any deviation by the contractor from the enclosed specifications will be allowed only upon prior approval and acceptance, in writing, by the Director of Facilities and by the roofing system manufacturer. Any deviation from the proposed specifications shall, in no way, jeopardize the manufacturer's full system warranty.

VI. QUALITY ASSURANCE INSPECTION

The owner reserves the right to retain, at the owner's expense, an independent inspection service to provide full time inspection of the roofing system installation. The owner and the inspector shall have free access to the work area.

The contractor shall arrange for the system manufacturer to provide inspection of the system installation. Upon completion of the project, an inspection shall be made by the manufacturer's representative to ascertain that the system has been installed in accordance with the published details and specifications required for warranty coverage. Documentation of this inspection must be returned to Kearney Public Schools' Director of Facilities.

Should the installation of the system not be approved by the manufacturer's inspector, correction of the defective work shall be performed, by either the contractor or the system manufacturer, until the system satisfactorily meets all the manufacturer's specifications and requirements for warranty coverage. Corrective work is to be performed at no additional expense to the owner.

VII. GUARANTEE / WARRANTY

Upon completion of the project, the contractor shall provide a guarantee/warranty from the material manufacturer/contractor that will provide the following unconditional coverage that are outlined in the specifications.

All work performed during the warranty period will be done at no additional cost to the owner. (Guarantee / warranty factors will weigh heavily on what is deemed to be "in the best interest of Kearney Public Schools").

It is the intent of this guarantee / warranty that during this period of coverage, the manufacturer of the materials or his representative will, at their own expense: 1.) be subject to the maximum liability of the original

cost, to the owner, of the installation; All warranty work, for the full term of the warranty, is to be performed at no additional cost to the owner.

It shall be the responsibility of the manufacturer or his or her representative to examine the job site, plans and specifications prior to bidding the work to assure all parties that the proposed system is designed, and will be addressed, in a manner compatible with the manufacturer's requirements for this project and for the specified guarantee / warranty.

VIII. PROPOSAL

Proposal of _____

hereinafter called the Bidder a corporation, an individual, a partnership

doing business as: _____

The undersigned, being familiar with local conditions affecting the cost of the work, and the proposed contract documents, including the Instructions to Bidders, Bid Security & Bonds, Insurance Requirements, Job Conditions, Roofing System Requirements, Quality Assurance Inspections, and Warranty Requirements, all on file at the Facilities Offices located at 417 East 6th Street, Kearney, Nebraska, hereby proposes to furnish all plant, equipment, materials, transportation, tools, labor and skills necessary and required to perform all work as described in the proposed contract documents.

Bidders may offer proposals only on the system listed in this document. The Owner reserves the right to accept or reject any or all bids, and to waive any irregularities. The contract(s) will be awarded on the basis of merit only, and on what is deemed to be in the best interest of Kearney Public Schools, and not necessarily on the basis of the low bid.

BASE BID-For all work shall be done to manufactures recommendations, I (we) agree to perform all work on Kearney High School Track and Football Field (_____) for the sum of:

$ _____, _____
(written)

Comments: _____

_____

A copy of the warranty information for the projects, *including warranty length*, is included. If an extended warranty is desired, for an additional _____ years: add $ _____

The undersigned agrees to commence work as soon as possible after notification to proceed by Kearney Public Schools and to complete work by August 1, 2020.

Bid security is required and accompanies this proposal in the amount of five percent (5%) of the total for all bids, for the amount of

$ _____ --- _____
(written)

the same being subject to forfeiture in the event of default by the undersigned.

Upon receipt of notice of acceptance of the proposal, I (we) will execute a formal contract within five (5) days and deliver certificates of insurance as required for the faithful performance of the contract.

An "Unconditional Full System Warranty Agreement" including all materials and installation, signed by authorized representative(s) of the manufacturer and the bidder as installer, as required by the bid documents will be provided upon completion of the project. All warranty work, for the full term of the warranty, to be performed at no additional expense to the Owner.

Respectfully submitted:

_____ _____
Signature of Officer Date

_____
Printed Name and Title

_____
Street Address

_____
City State Zip Code

(_____) _____ (_____) _____
Telephone Fax

IX. SCOPE OF WORK

1. Kearney Public Schools District is requesting proposals for Kearney High School track resurface/Stripping and football field turf replacement.

2. Workers normally used in the type of work indicated shall do Work. The contractor shall be a Manufacturer's

3. Bidders must list, with their bid, the names and addresses of all subcontractors to be used on this project.

4. Work may be performed starting May 24th, 2027 and during normal working hours, and with prior arrangements, before or after normal working hours. Notify the Director of Facilities of the intended working hours within two (2) weeks after notification of acceptance of proposal.

5. Successful bidder shall protect the Owner's property from, and shall be responsible for, any loss or damage arising out of the execution of the work described in this specification. Bidder shall provide appropriate fencing around all equipment and material on site.

6. It is intended that these specifications shall provide for a complete job, notwithstanding that provisions may be made herein for each and every specific item necessary for compliance with such intent shall be made in every detail without cost to the owner.

7. Specifications and drawings, when provided, are intended to be cooperative in what is called for by one shall be binding as if called for by both.

8. Coordinate scheduling, submittals, and work with other contractors to assure efficient and orderly sequence of execution, clean up, and project closeout.

B. Applicable Codes, Standards, and References: All work covered by this specification shall be in accordance with the following applicable codes and standards, except as provided herein.

1. Occupational Safety and Health Act (OSHA).

2. State and local codes and ordinances.

C. General Requirements:

1. The successful bidder shall organize and layout his or her work so as full access to the site.

2. The successful bidder shall coordinate installation with the Director of Facilities prior to commencement of work, and shall make the Owner aware of any additional requirements.

3. The successful bidder shall provide a portable toilet for use by the crew.

4. On site storage is permitted with prior arrangement with the Director of Facilities.

D. Execution:

1. The successful bidder (hereafter referred to as Contractor) shall be responsible for work to be accomplished during a time frame arranged with the owner.

E. Payment: Payment may be requested for materials delivered to the site or stored off-site and properly labeled as Kearney Public Schools. All work shall be accomplished before final payment.

F. Inspection: Upon completion of the work, the contractor shall arrange with the owner for a mutual inspection, with the manufacturers. Before payment is released, all noted deficiencies shall be remedied by the contractor and a copy of the manufacturer's warranty is received by the owner.

SECTION 32 1816

RESILIENT TRACK SURFACING

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This section includes the following:
   1. Polyurethane bound running track re-surfacing with one component structural spray.

1.2 RELATED REQUIREMENTS

A. None.

1.3 CODES AND STANDARDS

A. Codes and standards follow the current guidelines set forth by the International Association of Athletics Federation (IAAF), the National Collegiate Athletic Association (NCAA) or the National Federation of State High School Associations (NFHS).

1.4 SUBMITTALS

A. Submit three (3) sets of manufacturer's product data sheets including installation guidelines and maintenance guidelines.

B. Submit three (3) representative track samples in the color of surfacing to be installed.

C. Submit Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS) for all individual components of the product being installed.

1.5 QUALITY ASSURANCE

A. The track surface will be applied by an installer authorized by APT. The contractor shall have a current contractor's license, as well as a current sales tax and use tax number if applicable.

B. Successful contractor will provide proof of insurance as well as performance and payment bonds if required.

C. All polyurethanes used must be manufactured by an ISO 9001 and ISO 14001 Certified company. Manufacturer's ISO 9001 and ISO 14001 certificate must accompany bid.

1.6 PROJECT CONDITIONS

A. Weather: Surfacing shall not begin if rain is imminent, if gusting winds are occurring or when the threat of freezing exists within 24 hours.

B. Site: During any surfacing and striping, sprinkler systems must be shut off or controlled so that no water falls on the track or event area surfaces. Other trades and school district personnel must stay off the wet or curing surface.

C. Do not apply rubberized topping when base surface temperature is less than 50° F.

D. The General Contractor shall provide temporary barriers as required to prevent public entry to construction area and to protect adjacent properties from damage during construction operation.

1.7 WARRANTY

A. Provide manufacturers standard three (3) year warranty for track resurfacing projects.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Product: The design for each product is based on the product named. Subject to compliance with requirements, provide either the named product or a comparable product of equal or greater requirements.

2.2 SUPPLIER

A. Advanced Polymer Technology: www.sportsbyapt.com.

2.3 MATERIALS

A. Product:
   1. Basis of Design: Advanced Polymer Technology; Spurtan Respray.

B. Polyurethane bound running track re-surfacing with one component structural spray.
   1. Materials include:
      a. Qualipur Polyurethane primer
      b. One-Component Qualipur Structural Spray
      c. Melos EPDM Spray Rubber

C. No other system will be allowed to be Bid without prior written approval from the Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify existing track surface for dimensional stability, strength, and surface preparation. Notify owner of any deficiencies.

B. Entire surface shall be clean and free of all dirt, oil, grease or any other foreign residue. It is the responsibility of the General Contractor to ensure that the surface is thoroughly clean in all areas of the new and/or existing asphalt or concrete base as necessary to ensure adhesion of the track surface.

C. Beginning installation stipulates track installer “accepts” existing conditions. Adhesion to the existing surface is the surfacing contractor’s responsibility

3.2 PRODUCT AND MATERIAL DESCRIPTION

A. Polyurethane bound running track re-surfacing with one component structural spray. Two coats of a mixture of colored polyurethane and spray rubber, which are structurally sprayed onto the existing base to resurface current track surface.

B. Rubber (EPDM): Melos EPDM spray rubber (or approved equivalent).

C. One Component Structural Spray: The current surface shall be coated by using a one component, Qualipur polyurethane resin based, structural spray mixed with Melos spray rubber (or approved equivalent).

3.3 APPLICATIONS PROCEDURES

A. The entire surface shall be clean and free of dirt, oil, grease or any other matter prior to application of the resurfacing materials. Any dirt, construction

B. debris, etc. shall be pressure washed off the track surface by general contractor.

C. Prime entire surface area with a compatible Qualipur polyurethane primer. Mask and protect adjacent structures, as required. Primer shall dry to a tack-free condition, but no longer than 24 hours, for application of Resurface layer. The consumption rate is 0.29 lbs/sy (0.16 kgs/sm).

D. Mix the structural spray and spray rubber until thoroughly coated. The mixture should be sprayed in two separate applications. Apply the second coat, in an opposite direction as to the first. The minimum application rate is 1.92 lbs/sy (1.04 kgs/sm) for the Qualipur structural spray and 1.27 lbs/sy (0.69 kgs/sm) EPDM spray rubber. Apply specified amounts to achieve proper coverage.

3.4 STRIPING

A. All line marking paint shall be compatible and approved for the synthetic surfacing. Only an experienced track-striping specialist shall perform the line striping.

END OF SECTION

SECTION 32 5200

SYNTHETIC TURF

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Removal of existing synthetic turf system and prepare for new synthetic turf system.

B. The work under this section shall consist of furnishing all labor, materials, and equipment necessary to install, in place, all synthetic turf and other materials as indicated on the plans and as specified herein. The installation of all new materials shall be performed in strict accordance with these specifications, the turf provider's instructions and in accordance with all details and shop drawings.

1.2 RELATED REQUIREMENTS

A. None.

1.3 DEFINITIONS

A. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or reinstalled.

B. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and deliver salvaged items to Owner in ready-for-reuse condition.

C. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse and reinstall where indicated.

D. Existing to Remain: Designation for existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

1.4 REFERENCE STANDARDS

A. ASTM D1335 - Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings; 2021.

B. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2016 (Reapproved 2021).

C. ASTM D5034 - Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test); 2021 (Reapproved 2025).

D. ASTM D5823 - Standard Test Method for Tuft Height of Pile Floor Coverings; 2019.

E. ASTM F355 - Standard Test Method for Impact Attenuation of Playing Surface Systems, Other Protective Sport Systems, and Materials Used for Athletics, Recreation and Play; 2026.

F. ASTM F1551 - Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials; 2023.

G. ASTM F1936 - Standard Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field; 2010 (Reapproved 2015).

H. ISO 9001 - Quality Management Systems — Requirements; 2015, with Amendment (2024).

I. ISO 14001 - Environmental Management Systems — Requirements with Guidance for Use; 2015.

1.5 REFERENCE STANDARDS

A. Additional ASTM Standard Test Methods
   1. D1577 – Standard Test Method for Linear Density of Textile Fiber
   2. D5848 – Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering

3. D418 – Standard Test Method for Testing Pile Yarn Floor Covering Construction
4. D1338 – Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
5. D1682 – Standard Method of Test for Breaking Load and Elongation of Textile Fabrics
6. F1015 – Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
7. D1557 – Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.

B. NCAA (Division II) Football Rules, as applicable. FIFA Rules of the Game or NCAA Soccer Rules, as applicable.

C. ASBA Sports Fields Contractor Manual

D. STC Suggested Guidelines for the Essential Elements of Synthetic Turf Systems

1.6 QUALITY CONTROL

A. Manufacturer Qualifications: The Owner has conducted an extensive review of synthetic turf products, including visiting installed sites and review of other agencies' review criteria. Based upon their research, they have established the following criteria for acceptance of a synthetic turf product. No variation from these criteria shall be allowed. The Owner's review is considered final. Additionally, the following items shall be required:
1. Must be experienced in the manufacturing of tall pile synthetic infill grass systems with the same fiber as specified.
2. The synthetic turf installer/manufacturer shall have the experience of acceptable installations in the United States within the past five (5) years of tufted grass-like fabric with a rubber granule/sand infill.
3. Source Limitations: Obtain synthetic turf fiber through one source from a single manufacturer and provide fiber manufacturer's warranty.
4. Manufacturer must utilize best practices as certified by ISO 9001 and ISO 14001.
5. Manufacturer must have no periods of insolvency over the last 15 years.
6. Manufacturer shall have a minimum of 100 (football or soccer) installations in North America, each of 65,000 Sq. Ft. or more. List to be provided.
7. Manufacturer shall have a minimum of 15 NCAA (football or soccer) fields that have been in-place for at least 5 years (8 years preferred), with the same exact turf and infill system proposed for this project. Turf and infill system shall not have been replaced and/or repaired during the years referenced. A list of at least 15 fields meeting this criteria shall be submitted with Bid and shall include location, organization, and contact name and telephone number for organization that can be called as a reference.
8. Manufacturer shall provide third party certification confirming compliance with referenced standards.

B. Installer Qualifications: Company specializing in performing the work of this section.
1. The Synthetic Turf Installer must provide competent workmen skilled in this type of synthetic grass installation. All technicians must have installed tall pile synthetic turf. All technicians shall be trained and certified, in writing, by the turf provider, as competent in the installation of specified material.
2. The designated Supervisory Personnel on the project must be certified, in writing by the Turf Manufacturer, as competent in the installation of this material, including seaming and proper installation of the infill mixture. The supervisory personnel shall have a minimum of five years' experience with 15-foot-wide tufted materials and at least 10 installations of the exact turf and infill system proposed for this project.
3. ASBA Certified Field Builder shall be on site for at least 25% of the installation of the sub-base and synthetic turf.
4. Must be AstroTurf certified installer.
5. Must be installing same turf manufacturer brand continuously for ten (10) years or more.

C. Prior to the beginning of installation, the Synthetic Turf Installer shall inspect the subbase. The installer will accept the sub-base in writing when the general contractor provides test results for compaction, planarity and permeability that are in compliance with the synthetic turf manufacturer's recommendations and as stated herein.

D. The Synthetic Turf Installer shall provide the necessary testing data to the Owner that the finished field meets the required initial shock attenuation, as per ASTM F1936.

E. Remove defective Work, whether the result of poor workmanship, defective products or damage, which has been rejected by the Engineer as unacceptable. Replace defective work in conformance with the Contract Documents.

1.7 SUBMITTALS

A. Submit the following with Bid proposal:
   1. Submit the exact product name/description as well as the name and location of the manufacturers and suppliers of each component. Manufacturers and suppliers must not be changed after the contract is awarded unless approved by the Owner in writing.
   2. Submit three (3) samples, 12"x12" minimum size, illustrating details of finished product as bid, including full cross section of subbase, turf, and infill material.
   3. Product Literature: Submit three (3) copies of manufacturer's recommended installation and maintenance information, including any technical criteria for evaluation of the installed product. Descriptions of all equipment recommended for the maintenance and repair of turf product, as well as a list of any activities not recommended relative to the warranty.
   4. Submit a 1-lb. sample of the exact infill material(s) proposed to be used.
   5. A letter and specification sheet certifying that the products of this section meet or exceed specified requirements.
   6. Name and experience of the designated supervisory personnel assigned to this project. Changes to this assignment after contract can only be made if approved in writing by the Owner. Include a listing of other on-site personnel and their experience.
   7. The Synthetic Turf Installer and the Turf Manufacturer shall provide complete information on its warranty/insurance policy and coverage. Provide a complete sample copy of all warranty documentation.
   8. The Turf Manufacturer must submit the fiber manufacturer's name, type of fiber and composition of fiber.
   9. Submit a list of fields and references as required by Paragraphs 1.5.A.6 and 1.5.A.7.

B. Submit the following at the request of the Owner:
   1. Certified copies of independent (third-party) laboratory reports on ASTM tests as follows:
      a. Pile Height, Face Width & Total Fabric Weight, ASTM D418 or D5848
      b. Primary & Secondary Backing Weights, ASTM D418 or D5848
      c. Tuft Bind, ASTM D1335
      d. Grab Tear Strength, ASTM D1682 or D5034
      e. Verification that product meets Gmax minimums for ASTM F1936 for life of installation.
   2. ASTM test submittals may vary by no more than ¼" and 6 oz. of the specified product to bid. Bid winner must show NEW ASTM TESTS with contract submittals.
   3. The Synthetic Turf Installer and Turf Manufacturer shall provide evidence that the turf system does not violate any other manufacturer's patents, patents allowed or patents pending.
   4. Manufacturer shall submit certification and evidence that the turf can be plowed with conventional rubber bladed snow removal equipment.

C. Submit the following prior to ordering of materials:
   1. The Contractor shall submit Shop Drawings indicating:
      a. Field Layout.
      b. Field Marking Plan and details for Football and Soccer.
      c. Mid-field logo layout with color samples.

d. Endzone and Field Name layout with color samples
e. Roll/Seaming Layout.
f. Methods of attachment, field openings and perimeter conditions.

2. Shop Drawings: Shop drawings are to be submitted for review by the Engineer prior to manufacture of product and are to contain information regarding locations of seams, anchorage details, goal post/insert details, line and event marking locations and dimensions, turf roll widths and dimensions.

D. Submit the following prior to commencement of turf installation:
1. Base Conditions Acceptance: Prior to installation of the synthetic turf system, the Contractor is to submit in writing an acceptance of the compacted base and sub-base system as being acceptable by the turf manufacturer and suitable for the successful installation of the proprietary synthetic turf system.
2. Verification survey of the final aggregate surface shall be provided to the Engineer and Owner prior to installation of synthetic turf. Final surface of aggregate shall match the template correction slope and grade as shown on the Drawings.

E. Prior to Final Acceptance, the Contractor shall submit to the Owner:
1. Three (3) copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and markings. Also address remedial measures for graffiti removal.
2. The turf installer/supplier shall provide on-site maintenance training for the Owner's maintenance personnel on how to maintain the field properly for the amount of time as required to fully demonstrate proper field maintenance.
3. Written verification of a suitable training session for the Owner's maintenance staff on how to maintain the completed installation.
4. Project Record Documents: Record actual locations of seams, drains or other pertinent information.
5. Test Results: Test certifications issued by an independent testing agency that the synthetic surface meets with the requirements of the ASTM tests noted herein are to be submitted.

1.8 WARRANTY

A. The Contractor shall provide a minimum eight (8) year, 3rd party insured warranty policy by the manufacturer, against defects in materials and workmanship. Defects shall include, but not be limited to ultraviolet ray fading, degradation, or excessive wear of fiber, insect damage, rot, mildew, fungus growth, seam integrity, and drainage (through the turf only).

B. Submit information confirming that a 3rd Party Insurance Policy, non-cancelable, non-prorated, and pre-paid for the entire duration of the warranty is in effect covering this installation, and underwritten by a Best A Rated Insurance Carrier.

C. Warranty shall be for full replacement of any damaged product within the warranty period. Warranty shall be comprehensive and sufficient to replace entire field if necessary.

D. Warranty shall become effective from the date of substantial completion.

E. Warranty shall include coverage for Gmax as follows:
1. Turf system shall meet an initial Gmax not exceeding 120 G's initially and not exceeding 160 G's at any time during the warranty period.

F. The Warranty shall contain no usage limits for warranted field.

G. Submit Manufacturer Warranty and ensure that forms have been completed in Owner's name and registered with Manufacturer.

H. Supply Warranty Insurance Certificate with complete information on contacting the Insurance Carrier should a claim need to be made. Warranty insurance policy shall have the Owner listed as insured.

PART 2 MATERIALS

2.1 TURF SYSTEM

A. Product:
   1. RootZone 3DSF 52, AstroTurf, www.astroturf.com, 316-305-0078.

B. No other system will be allowed to be Bid without prior written approval from the Architect.

2.2 TURF SYSTEM

A. Turf Fiber:
   1. The turf fiber must be tufted to the backing with a minimum tuft bind of 8 pounds.
   2. The turf fiber shall be non-abrasive and a minimum of 100 microns thick.
   3. The turf fiber must contain less than 100 ppm of lead in all colors.
   4. The turf fibers must be from the same dye lots.
   5. The turf fibers must be from a single source.
   6. The turf fibers must be guaranteed for a period of Eight Years not to fade or fail (as distinguished from a change in texture) or have a pile height decrease to 50% of pile height as result of UV degradation.
   7. The turf shall possess the following minimum characteristics:

Characteristic	Value	Test
Finished Pile Height	2 inches	ASTM D5823
Fabric Width	15 feet (4.57m)	ASTM D 5793
Tuft Gauge	3/8 inches	ASTM D 5793
Grab Tear Strength	200-1b-F	ASTM D5034
Tuft Bind	8-1b-F	ASTM D1335
Permeability	>30 inches/hour	ASTM F1551
Infill Material Depth	≥1.75 inches	-
Gmax	<120G (Initial) <160G (8 years)	-
Infill Material	Rubber and Sand	-

B. Backing Material
   1. Primary Backing:
      a. The primary backing shall be comprised of multi-layered polypropylene.
   2. Secondary Backing:
      a. Secondary backing shall be a heat activated coating that shall saturate the primary backing and effectively lock the fiber tufts in place to the primary backing.
      b. Secondary backing must allow drainage which meets above permeability.

C. Turf roll seams: to be sewn or glued on site so that no openings larger than the porous backing mat openings are created. Roll width to coincide with tufted-in sports line markings where possible. All turf fabric edges to be securely bound as per the perimeter detail design.

D. Fabric surface: shall be constructed and installed in minimum widths of 15 feet with no longitudinal or transverse seams, except for inlaid lines with a finish roll assembly. Seams shall be 15’-0” apart. Rolls that do not comply with the proper length or conform to the seaming diagram, as approved prior to installation, shall be rejected from the site. No fitted pieces shall be allowed to true alignment. Parallel seams only are acceptable in the main playing areas. No head seams are acceptable on the sports fields.

E. The entire system shall be resistant to weather, including ultra-violet light and heat degradation; insects, rot, mildew and fungus growth and be non-allergenic and non-toxic.

F. Fiber Colors: Submit samples of the full available color palette for owner approval prior to placing order for turf. At a minimum, include the below listed colors:
   1. Color 1A: Grass, dark green in standard color, as selected by the Owner

2. Color 1B: Grass, light green in standard color, as selected by the Owner. Alternating every 5 yards of playing surface.
3. Color 2: White for football lines, markings, and logos, as selected by the Owner
4. Color 3: Yellow for soccer lines and logos, as selected by the Owner
5. Color 4: Blue for logos, boundaries and boxes, as selected by the Owner
6. Additional colors as needed.

G. Mid-Field Center Logo shall be provided by the owner in a standard PDF or EPS file to the selected contractor. Contractor shall submit a shop drawing of Logo to include colors and dimensions for approval by the owner prior to ordering.
1. Approximately 40 ft x 30 ft.
2. Three (3) color logo to match existing.

H. Endzone Letters: Two (2) colors and roughly 18 feet tall.

I. The turf material shall be non-combustible and pass the DIN standard Pill Burn test or ASTM D2859.

2.3 LINES, MARKINGS AND IN-LAID TURF

A. All line material is to be identical dimensionally and of the same material to that used for the main playing field fiber system.

B. Inlaid material as indicated on the drawings to be identical, except for fiber color, as the main turf field.

C. All lines and markings shall be accurately set and surveyed to within ½" tolerance of the location shown on the drawings and in conformance with specified field marking standards.

D. All lines and markings shall be installed prior to any installation of in-fill material.

E. It is recommended that the maximum amount of markings be factory pre-fabricated into the turf system prior to shipment to site.

2.4 SYNTHETIC GLUE MATERIAL

A. Adhesive products shall be hot melt technology as recommended by the turf manufacturer.

B. Any adhesive products required for the installation of a proposed turf system shall be purpose-suited to the system. The material and application methods shall be as recommended by the adhesive manufacturer, and have been utilized on at least 25 full installations.

C. Disposal of adhesive containers and unused adhesives as well as any fees resulting from such disposal shall be the responsibility of the Contractor.

2.5 INFILL MATERIAL

A. The synthetic infill material shall consist of a minimum of a blend of graded, silica sand, and treated and mixed ground rubber, as required to meet required Gmax standards.
1. Sand: specially-graded, dust-free silica sand shall be placed on the turf and shall include test results that demonstrate the following minimum properties:
a. Color – tan
b. Sand shall be round non-angular in shape
c. Roundness – 0.6+
d. Hardness - 0.6-0.8 on the Mohs Scale
e. Size – 20-40 sieve size
f. Density – 90 – 95 lbs/ cu ft.
g. Dust - < 0.001 %
h. Angle of Repose - < 30°
i. Sand shall be heavy metal safe

2. Rubber: Rubber is SBR ambient (styrene butadiene rubber) granulated rubber, color black, 10-20 sieve size, that is 99% fiber free and is heavy metal safe. Rubber shall be placed on the turf and shall be of the following Sieve Size Distribution:

Sieve Size	% Retained
10	0-15%
12	5-30%
16	40-70%
20	15-35%
30	0-10%
40	0-1%
Pan	0-1%

3. **Rubber must be Nebraska recycled tire and re-used rubber**.

B. Sufficient quantities of the top dressing infill material must be stored on site at the time of installation to be used 180 days after the completion of the installation to mitigate the differential settling of high traffic zones on the field. This fill addition must be carried out by the Contractor within the time specified above.

C. 100% NEW INFILL ONLY. No replacement rubber from other turf permitted.

D. New infill must have point of origin with sieve analysis.

2.6 EXTRA MATERIALS

A. Provide extra turf material of each color provided from the same production run for Owner's repair stock as follows: Each Green Color - 15 foot x 30 foot.

B. Provide extra rubber infill granules in the amount of 2% of the total used on this project. Extra rubber shall be provided in bags.

C. Package extra materials with protective covering for storage and label. Deliver extra materials to the Owner.

PART 3 EXECUTION

3.1 DEMOLITION

A. Remove existing artificial turf system.
   1. Owner has right to salvage any item removed. Coordinate with Owner.

B. Protect existing work to remain.

C. Dispose and haul all remaining removed existing artificial turf system from site accordingly.

3.2 GENERAL

A. Installation of the synthetic turf system is to comply with the manufacturer’s recommendations, requirements and the reviewed and approved shop drawings.

B. Perform all work in strict accordance with the Contract Documents and the manufacturer’s specifications and instructions. Only those skilled technicians proposed in the bid phase are to be assigned to this project by the Contractor.

C. The designated Supervisor for the Synthetic Turf Installer must be present during any and all construction activity associated with the field installation, including testing, cleanup and training.

D. All products and equipment are to be from sources approved by the authorized turf manufacturer and conform to the specifications.

3.3 PRODUCT DELIVERY, STORAGE & HANDLING

A. Deliver products to site in original containers and wrappers as agreed between the Engineer and Contractor. Inspect products upon delivery for damage.

B. Store products in a location and in a position that protects them from crush damage or any other defects.

C. Handle and store (on and off site) all materials safely to ensure their physical properties are not adversely affected and that they are not subject to vandalism or damage.

D. Rubber and sand infill shall arrive dry and loose. No rubber shall be accepted that is bulked or solid.

E. Adhesives shall arrive in dry, sealed containers.

F. Rubber infill shall arrive in large sacks or bags without tears or loose material about.

3.4 PLUGS AND FITTINGS

A. All permanent field fittings penetrating the turf indicated on the drawings shall be securely sealed to the turf surface so that no infill material is allowed to spill to the substrate.

3.5 SITE EXAMINATION

A. The Contractor shall verify clearing and grubbing operations were adequate prior to repairing subgrade.

B. The Contractor, along with the Engineer, Grading Subcontractor (if applicable) and Synthetic Turf Subcontractor (if applicable), shall attend a joint inspection of the completed sub-base assembly for the purpose of determining the acceptability of that surface prior to installing the synthetic turf product and to confirm actual site dimensions.

C. The inspection shall include a check for planarity. The finished surface shall not vary from a true plane more than 1/4” in 10 feet when measured in any direction. The Contractor shall provide all required tools and materials needed for the planarity check, which may include but not be limited to, a laser level, string line, straight edge and/or other assessment materials. The Contractor shall mark in the field any deviations from grade in excess of those specified above, as well as provide a marked-up plan locating the deviations. The Contractor shall correct any deviations to the satisfaction of the Engineer and Synthetic Turf installer.

D. The compaction of aggregate base shall be 95% to Standard Proctor and surface tolerances shall not exceed ¼” over 10 feet.

E. The Contractor shall have a state registered surveyor conduct an elevation survey of the field area in a 25’ grid to determine and verify that subgrade elevations and slopes are within previously specified tolerances. This elevation survey may require further verification of smaller areas within the 25’ grid if determined necessary by the Engineer.

F. When any or all corrective procedures have been completed, the finished sub-base surface must be re-inspected, with the same representatives attending as the initial inspection. If required, additional repair and inspections are to be conducted until the subbase surface is deemed acceptable by the Engineer and Synthetic Turf Installer

G. Once the sub-base surface has been deemed acceptable, the Contractor shall submit a written certificate indicating the acceptance of:
   1. The sub-base construction finished surface as totally suitable for the application of the selected synthetic turf system, and
   2. The sub-base construction as totally suitable for work under this section to proceed with the final installation and fully warrant the athletic surface installation for the period and conditions specified herein.

H. Commencement of work under this section shall constitute acceptance of the work completed under other sections by the Contractor, acceptance of dimensions of the subbase, and hence, no claims for extra work based upon these conditions will be permitted.

3.6 ENVIRONMENTAL CONDITIONS

A. Install synthetic turf surfacing only when ambient air temperature is 45o F or above and the relative humidity is below 35% or as specified by the product manufacturer. Installation will not proceed if rain is imminent.

B. Install product only when prepared base is suitably free of dirt, dust, and petroleum products, is moisture free and sufficiently secured to prevent unwanted pedestrian and vehicular access.

3.7 TURF INSTALLATION

A. Install synthetic turf system in accordance with the manufacturer's written installation instructions.

B. All inlaid areas shall have full fastenings and no loose areas. At no time can pulling on the section separate the material.

C. Turf shall be attached to the perimeter edge as shown in the construction plans and as per the manufacturer.

D. All seams and inlaid areas shall be brushed thoroughly before infill materials are installed.

E. All terminations shall be as detailed and approved in the shop drawings.

3.8 INFILL INSTALLATION

A. The synthetic turf shall be thoroughly brushed prior to installation of infill materials to remove wrinkles.

B. The infill materials shall be installed in layers, in accordance with the turf manufacturer's installation instructions. Any mix of materials shall be uniform and even in thickness.

C. Turf shall remain free draining at all times before, during and after the infill materials are installed.

3.9 FIELD MARKINGS

A. Sports field lines and event markings as per the Contract Documents shall be accurately surveyed by the Contractor, positioned, and marked in accordance with the current rules of the governing body. All lines shall be straight and true along the length of the marked boundary to within ½" along the length of any such boundary.

B. All markings shall be accurately measured and applied in widths and colors as required by the governing body and selected from the manufacturer's range of standard colors, or not more than one custom color if the manufacturer's standard colors do not meet the Owner's requirements.

3.10 TESTING

A. At the time of substantial completion, the Contractor shall perform a series of tests by use of an independent testing agency to evaluate the shock absorption characteristics of the field. The tests shall be performed on a 50-foot grid in both directions using an accelerometer in accordance with ASTM F1936 and ASTM F355. Test the field at a minimum of 12 points and submit the results to the Owner within 30 days of testing. Test shall demonstrate an initial Gmax not exceeding 120 at time of substantial completion. The Owner will hire a third-party testing agency to perform Gmax testing periodically throughout the warranty period. Test results will be provided to the Contractor. At no point shall any reading exceed 160 Gmax during the life of the warranty. If any point exceeds the maximum deceleration, the Contractor shall make corrections to provide the allowable Gmax deceleration at the Contractor's expense.

3.11 CLEANING AND COMPLETION

A. Protect all installed work from other construction activities as installation progresses.

B. The Contractor shall keep the area clean throughout the construction period and free from the installation process, including track surfaces.

C. Upon completion of the installation, thoroughly clean surfaces and site of all refuse resulting from the installation process, including track surfaces.

D. Any damage to existing fixtures or facilities resulting from the installation of the synthetic turf system shall be repaired to original condition at the Contractor's expense prior to Substantial Completion and commencement of the Warranty Period.

E. A deficiency list will be produced by the Engineer at the conclusion of the project. All installation project deficiencies not in dispute must be remedied by the Contractor prior to the issuance of a certificate of Substantial Completion.

F. Contractor to provide a written acceptance by the Turf Manufacturer that the turf and base system is installed in accordance with their recommendations prior to final completion.

END OF SECTION