



POUDRE SCHOOL DISTRICT R-1

REQUEST FOR PROPOSAL

FOSSIL RIDGE HIGH SCHOOL SYNTHETIC TURF AND INSTALLATION

RFP #19-345-001

PROPOSAL SCHEDULE

RFP Posted to BidNet	April 4, 2019
Mandatory Pre-Proposal Meeting	April 10, 2019, 10 a.m. MST
Questions Due Date	April 17, 2019, 2:00 p.m. MST
RFP Closing Date	April 24, 2019, 2:00 p.m. MST

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**REQUEST FOR PROPOSAL
FRHS SYNTHETIC TURF AND INSTALLATION
RFP #19-345-001**

Poudre School District (the District) is seeking proposals from experienced and qualified turf Contractors for all material and labor involved with removal of the existing turf and installation of the new synthetic turf at Fossil Ridge High School as specified in this Request for Proposal (RFP).

A copy of the Proposal and any associated addenda may be obtained from the Rocky Mountain E-Purchasing (BidNet) website: <http://www.RockyMountainBidSystem.com>.

All Contractors planning to submit Proposals are required to attend a **mandatory pre-proposal meeting** at 10 a.m. MST on April 10, 2019 at Fossil Ridge High School Stadium (5400 Ziegler Road, Fort Collins, Colorado 80528). Proposals received from Contractors who did not attend the mandatory pre-proposal meeting will not be considered.

Questions regarding this RFP must be in writing and may only be directed to the District through the BidNet platform any time after the issuance of this RFP through and including 2:00 p.m. MST on April 17, 2019. Questions received after the deadline date/time and/or not submitted electronically through the BidNet platform may not be addressed.

At no time during the solicitation process will communication regarding this RFP be permitted with any district employee other than the Procurement Agent named below until an award has been announced. Communication with a district employee other than the Procurement Agent named below may disqualify your proposal from consideration.

Each question submitted, as well as the District's response thereto, shall be provided in a Questions and Answers document/addendum through BidNet.

The District will only accept and consider electronically submitted proposals. Proposals must be submitted and received in BidNet's electronic solicitation portal on or before 2:00 p.m. MST on April 24, 2019. At that time, the submission portal will close, and no further submissions will be allowed, nor considered.

District staff shall review the proposals received in response to this RFP during the proposal consideration period commencing on April 25, 2019. During the proposal consideration period, the District may ask questions of and/or request additional information from Contractors who have submitted proposals. Selected Contractors may be requested to give presentations to District staff regarding their proposals.

Sales Prohibited/Conflict of Interest: No officer, employee, or member of the School Board, shall have a financial interest in the sale to the school district of any real or personal property, equipment, material, supplies or services where such officer or employee exercises directly or indirectly any decision-making authority concerning such sale or any supervisory authority over the services to be rendered. This rule also applies to subcontracts with the District. Soliciting or accepting any gift, gratuity favor, entertainment, kickback or any items of monetary value from any person who has or is seeking to do business with Poudre School District R-1 is prohibited.

Collusive or sham proposals: Any proposal deemed to be collusive or a sham proposal will be rejected and reported to authorities as such. Your authorized signature on this proposal assures that such proposal is genuine and is not a collusive or sham proposal.

The District reserves the right to reject any and all proposals and to waive any irregularities or informalities.

Sincerely,
Karen Wailly
Senior Procurement Agent

**REQUEST FOR PROPOSAL
FRHS SYNTHETIC TURF AND INSTALLATION
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BACKGROUND

The District is a high-performing district, covering more than 1,800 square miles in northern Colorado with diverse school settings. The District's instructional program is centered around District Ends, under the Policy Governance model, developed to support a comprehensive curriculum.

While more than 70% of the District's families choose to send their children to their neighborhood school, the District does support school choice and offers a wide spectrum of educational programs to fit any child's needs. Program options include International Baccalaureate, Core Knowledge, Bilingual/Dual Language Immersion, Hybrid/Online, Expeditionary Learning, Science, Technology, Engineering and Math (STEM) along with extra-curriculars and athletics. The District has two LEED certified school buildings and over 30 Energy Star awards and supports operational sustainability in all areas of work.

Our Schools:

- 31 elementary schools
- 10 middle schools
- 4 comprehensive high schools
- 6 option (100% choice) schools
- 3 alternative high schools
- 4 charter schools
- 1 online school

The District is fully accredited by the Colorado Department of Education Accreditation and Accountability Unit and is subject to periodic monitoring to ensure continued compliance with accreditation standards.

1.0 GENERAL CONDITIONS

- 1.1 This is a solicitation for an offer and is not an offer to contract for goods or services.
- 1.2 It is the responsibility of the Contractor to monitor the BidNet website for any additional requirements and addenda prior to proposal submittal, as well as award information after the closing date.
- 1.3 Contractor must provide all requested information. Failure to do so may result in rejection of the proposal at the option of the District.
- 1.4 Proposals must meet or exceed specifications contained in this document.
- 1.5 The District is exempt from city, county, state and federal sales/excise taxes. Tax exempt certificates will be issued upon request.
- 1.6 Submission of a proposal is deemed as acceptance of all terms, conditions and specifications contained in the District's solicitation package initially provided to the Contractor. Any proposed modification must be accepted in writing by the District prior to award of the contract.
- 1.7 Each Contractor (and its employees, representatives and subcontractors) agrees to abide by all applicable federal, state and local codes, laws, rules and regulations.
- 1.8 The successful Contractor shall furnish all supplies, which conform to all applicable safety codes and regulations.
- 1.9 Contact with District personnel regarding this Request for Proposal (RFP), other than inquiries to the specific Procurement Agent identified in this document, may be grounds for elimination from the selection process.
- 1.10 Information and materials submitted in response to this solicitation may be considered public records subject to disclosure under the Colorado Open Records Act ("CORA"), C.R.S. §§ 24-72-200.1 to -205.5. Information and materials that Contractor believes are confidential and not subject to disclosure under CORA must be submitted separately with a citation to the section of CORA and any other relevant law under which Contractor believes they are confidential. The District, not Contractor, shall determine whether information and materials so identified will be withheld as confidential, but will inform Contractor in advance of disclosure to give it an opportunity to take legal action to protect its interests vis-à-vis the party making the CORA request.
- 1.11 Proposals shall contain a signature of an authorized representative in the space provided on the Proposal Certification Form. Failure to properly sign the proposal may invalidate same and it may not be considered for award.
- 1.12 The accuracy of the solicitation is the sole responsibility of the Contractor. No changes in the proposal shall be allowed after the submission deadline, except

when the Contractor can show clear and convincing evidence that an unintentional factual mistake was made, including the nature of the mistake.

- 1.13 For services requiring Contractor's presence on District property and the project site, the Contractor must provide proof of insurance that meets the insurance requirements stated in Section 6.0 of this document.
- 1.14 The successful Contractor is not permitted to transfer any interest in the project whether by assignment or otherwise, without prior written consent of the District's Procurement Services Department.
- 1.15 Contractors are required to submit the name, address, phone number, email address and contact person of up to three (3) references for which your company has completed similar services as those requested in this RFP. Identify the scope of the project(s).
- 1.16 Contractor must note in the solicitation response any intent to use subcontractors. The subcontractor's name, address, phone number and three client references, along with the type of work to be performed must be included. Use of subcontractors may be considered as a factor in the District's evaluation process. If the Contractor fails to notify the District of its intent to use subcontractors in the proposal submittal, the proposal may be considered a void offer. Subcontractors will be allowed only by written permission of the District. The Contractor agrees that it is fully responsible to the District for the acts or omissions of its subcontractors or any persons employed by them, in the same way as it is for the acts and omissions of persons directly employed by the Contractor. Nothing contained in the contract or any subcontract shall create any contractual relation between any subcontractor and the District.
- 1.17 The District reserves the right to reject any and all proposals or any part thereof, to waive any formalities, and further, to award the proposal to the responsible Contractor as deemed in the best interest of the District.
- 1.18 There is no expressed or implied obligation for the District to reimburse responding firms for any expenses incurred in preparing proposals in response to this request.
- 1.19 Responses to this solicitation will be independently evaluated by an evaluation committee to be established for such purpose.
- 1.20 Proposals submitted will be evaluated using pre-determined objective rating criteria. Those that are clearly non-responsive to the stated requirements may be eliminated prior to the evaluation. Prior to proposal submission, Contractors are encouraged to check the BidNet website to ensure additional requirements are incorporated into its submissions.
- 1.21 The District reserves the right to negotiate further with one or more Contractor or to request additional information. The District may make such inquiries and conduct such investigations as it deems necessary to determine the qualifications and ability of the Contractor to provide the services called for under the RFP and/or represented in the Contractor's response. Contractors shall timely provide

information to the District in connection with such inquiries and investigations. Contractors may be asked to give presentations to the District regarding their proposals.

- 1.22 Should the District determine, in its sole discretion, that only one Contractor is fully qualified or that one Contractor is clearly more highly qualified than the others under consideration, a contract may be negotiated and awarded to that Contractor.
- 1.23 In the event the District has reasonable grounds to believe that any individual assigned to perform work under this solicitation has a criminal record, is a registered sex offender, is under the influence of alcohol or other substance, has exhibited violence or based upon other information the District deems reliable; the District may exclude such individual from any school building or grounds or impose reasonable conditions upon such individual's presence upon any school premises. In the judgment of the District, if a contract cannot be performed as a result of such action, the contract may be terminated.
- 1.24 The District intends for the contract to commence May 2019 and continue in full force and effect through and including June 30, 2020, unless earlier terminated by the District as provided in Section 1.26 below. The final award and contract start date is contingent upon a successfully negotiated and fully executed contract between the District and the recommended Contractor. The intended date is provided for planning purposes only.
 - 1.24.1 Fees for Services shall remain fixed through the term of the Contract. Contractor's request to increase fees must be submitted in writing and received no later than sixty (60) days prior to the termination date of the Contract, as outlined in section 2.0. The District reserves the right to approve or reject any requests to increase Service fees.
- 1.25 Notwithstanding any other term or provision of this Request for Proposal, the District's obligations hereunder are expressly subject to its budgeting and appropriation of sufficient funds for each fiscal year (July 1 - June 30) a contract is in effect. In no event shall the District's obligations in a contract constitute a multiple-fiscal year direct or indirect debt or other financial obligation under Article X, Section 20(4)(b) of the Colorado Constitution.
- 1.26 Notwithstanding the planned term of a contract and/or any extensions thereof as provided above, the District may terminate the contract at any time in its sole discretion for any reason, with or without cause, upon written notice served on the Contractor no less than thirty (30) days prior to the date of termination. In the event of such early termination by the District, the Contractor shall be paid up to the date of termination for services performed under and in accordance with this contract.
- 1.27 Independent Contractor
 - 1.27.1 The Contractor shall provide the services as an independent Contractor of the District. As such, the Contractor shall have the right to determine

how and by whom the services will be provided, subject to and consistent with the terms and conditions of this solicitation.

- 1.27.2 The Contractor shall be exclusively responsible for: (a) all compensation, employment tax withholdings and payments, and all fringe benefits for its employees in full compliance with all applicable federal, state and local laws; (b) all insurance coverages and benefits for its employees in full compliance with all applicable federal, state and local laws, including but not limited to pension or retirement benefits, workers' compensation, unemployment compensation, and Social Security benefits; and (c) all payments to its Contractors and subcontractors for goods and/or services directly or indirectly related to this solicitation.
- 1.27.3 Nothing in this solicitation or as a result of this solicitation shall be construed as creating a single enterprise, partnership, joint venture or employer-employee relationship between a future Contractor and the District. The future Contractor will not be considered a partner, agent or representative of the District and will not represent itself to be a partner, agent or representative of the District. The District is not a partner, agent or representative of any future Contractor and shall not represent itself to be a partner, agent or representative of the Contractor.

1.28 Certification Regarding Illegal Aliens

- 1.28.1 The Contractor certifies, represents, warrants and agrees that it will not knowingly employ or contract with an illegal alien to provide services under this contract and will not enter into a contract with a subcontractor that fails to certify to the Contractor that the subcontractor will not knowingly employ or contract with an illegal alien to provide services under this contract. The Contractor also certifies, represents, warrants and agrees that it will confirm the employment eligibility of all its employees who are newly hired for employment to provide services under this contract through the Contractor's participation in either: (a) the E-Verify Program created under federal law and jointly administered by the Department of Homeland Security and the Social Security Administration; or (b) the Colorado Department of Labor and Employment Program ("Department Program") established pursuant to C.R.S. § 8-17.5-102(5)(c).
- 1.28.2 The Contractor shall not use either the E-Verify Program or the Department Program procedures to undertake pre-employment screening of job applicants while this contract is being performed. If the Contractor obtains actual knowledge that a subcontractor providing services under this contract knowingly employs or contracts with an illegal alien, the Contractor shall notify the subcontractor and the District within three (3) days that the Contractor has such actual knowledge and terminate the subcontract within three (3) days of providing the notice if the subcontractor has not stopped employing or contracting with the illegal alien. The Contractor shall comply with any reasonable request made by the Department of Labor and Employment in the course of an investigation undertaken pursuant to the authority of C.R.S. § 8-17.5-

102(5). If the Contractor participates in the Department Program, it shall: (a) notify the District and the Department of Labor and Employment of such participation as required by law; and (b) within twenty (20) days after hiring an employee to provide services under this contract, provide to the District a written notarized copy of an affirmation that it has examined the legal work status of such employee, retained file copies of the documents required by 8 U.S.C. § 1324a, and not altered or falsified the identification documents for such employee.

1.29 Qualifications of Contractor

- 1.29.1 The District may make such reasonable investigations as deemed proper and necessary to determine the ability of the Contractor to perform the work and the Contractor shall furnish to the District all such information and data for this purpose as may be requested.
- 1.29.2 The District further reserves the right to reject any proposal if the evidence submitted by, or investigations of, such Contractor fails to satisfy the District that such Contractor is properly qualified to carry out the obligations of the contract and to complete the work/furnish the item(s) contemplated therein.

1.30 Miscellaneous

- 1.30.1 Once the evaluation is complete and the Intent to Award has been issued to the recommended Contractor, the recommended Contractor will work with the District's Contract Administrator to successfully negotiate a contract.
- 1.30.2 **Governing Law.** A contract resulting from this solicitation shall be governed by and construed in accordance with the laws of the State of Colorado. Venue for any and all legal action regarding or arising out of transactions covered herein shall be solely in the District Court in and for Larimer County, State of Colorado.
- 1.30.3 **Equal Opportunity.** The successful firm will agree not to refuse to hire, discharge, promote, demote, or to otherwise discriminate in matters of compensation against any person otherwise qualified solely because of race, creed, sex, national origin, ancestry or physical handicap.
- 1.30.4 **Appeal of Award.** The Contractor may appeal the award by submitting, in writing, a request for re-consideration to the District's Purchasing Manager within seventy-two (72) hours after the receipt of the notice of award.
- 1.30.5 In the event the awarded Contractor defaults on its contract or the contract is terminated for cause due to performance, the District reserves the right to re-procure the Services from the next lowest Contractor or from other sources during the remaining term of the terminated/defaulted contract. Under this arrangement, the District shall charge the awarded Contractor any differences between its price and

the price to be paid to the next lowest Contractor, as well as, any costs associated with the re-solicitation effort which resulted from such default or termination.

1.30.6 This solicitation does not commit the District to award a contract, to pay any costs incurred in the preparation of a proposal or to procure a contract for the services. The District reserves the right to accept or reject any or all proposals received as a result of this request or to cancel in part or in its entirety this solicitation if it is deemed to be in the best interest of the District. The District reserves the right to accept any portion of the proposal or the entire proposal as deemed in the best interest of the District.

1.30.7 For the purposes of solicitation evaluation, Contractor must indicate any variances to the specifications and terms and conditions, no matter how slight. If variations are not stated in the Contractor's response, it shall be construed that the proposal fully complies with the specifications and terms and conditions. Notwithstanding the above, it is hereby agreed and understood that the District reserves the right to reject these variations if they individually or, as a whole, do not meet the standards established in the specifications.

1.30.8 Sustainability. The District is committed to be a responsible steward of our natural resources and believes that public education should provide leadership in developing an ethic of sustainability in all its practices. In the District we have both Energy Conservation and Waste Management policies and espouse these values, making environmental stewardship and integral part of the physical plant operation.

1.31 Warranties

1.31.1 Notwithstanding prior acceptance of Services by the District, the Contractor shall expressly warrant all delivered Services provided, as properly functioning at the start of operations and compliant with the terms of the contract and industry standards thereafter. The warranty period will begin at the time the Services have been formally accepted in writing by the District.

1.31.2 During the warranty period, the Contractor shall be responsible and bear all costs to correct any problems, defects and/or deficiencies reported which do not meet the specifications set forth in the contract.

1.31.3 The Contractor will correct all defects and/or deficiencies associated with the contract and replace incorrect or defective Services within five (5) business days of written notification from the District to the Contractor. If, within five (5) business days after written notice by the District to the Contractor, the Contractor has not corrected all defects and/or deficiencies, the District may correct all defects and/or deficiencies at the Contractor's expense.

1.31.4 Contractor warrants that all Services furnished under the contract shall be merchantable and shall be safe and appropriate for the purpose for which Services of like kind are normally used. If Contractor knows or has reason to know the particular purpose for which the District intends to use the Service, Contractor warrants that such Services shall be fit for that particular purpose. Contractor warrants that all Services furnished under the contract shall be new unless otherwise specified by the District, and that the title conveyed regarding such Services shall be complete and its transfer rightful. Contractor agrees to promptly replace or correct all defects and/or deficiencies in any Service not conforming to the foregoing warranties, without expense to the District, provided the District elects to allow Contractor the opportunity to do so.

1.31.5 Defects and/or deficiencies properly noted in writing to the Contractor before expiration of the warranty period will be fully covered regardless of such expiration.

1.31.6 In the case of emergency, repairs and/or replacement may be made without notice being given to the Contractor if determined by the District that delay would cause certain loss or damage. The Contractor shall pay the cost of these emergency repairs and/or replacements. Contractor shall, upon District request, provide proof as to the kind and quality of materials and equipment. Contracted work shall, likewise, be free of defects and in conformance with industry standards. Contractor also warrants that its workers will be sufficiently skilled to produce high quality work, free of faults and defects. Work not conforming to these requirements, including unauthorized substitutions, may be considered defective. Contractor further warrants that the construction processes and methods employed to perform the work shall be suitable for the results required and expected. If the Contractor proposes to use an unproved and untried method, process or product, the District must be advised of the proposal in writing and give approval. The District may permit experimentation but may require special guarantees by the Contractor to cover the experimental work.

1.31.7 By acceptance of a contract as a result of this Request for Proposal, in addition to the guarantees and warranties provided by law, Contractor expressly guarantees and warrants as follows:

- a. That the articles to be delivered hereunder will be manufactured, sold and/or installed in compliance with the provisions of all applicable Federal, State and Local laws and regulations.
- b. That nothing contained herein shall exclude or affect the operation of any implied warranties otherwise arising in favor of the District.

1.32 Cooperative Purchasing Efforts

1.32.1 Poudre School District is a member of, or affiliated with, several regional professional procurement organizations within Colorado and Wyoming.

These organizations are comprised of governmental purchasing agents, or agency representatives responsible for the purchasing function.

1.32.2 These organizations include:

- Colorado Educational Purchasing Council (CEPC) - A cooperative purchasing organization comprised of purchasing agents/buyers representing all Colorado public school districts.
- Multiple Assembly of Procurement Officials (MAPO) - A cooperative purchasing organization comprised of procurement representatives from state, county, municipal, governments, special districts or school districts along the front range of the Rocky Mountains in Colorado.
- Rocky Mountain Governmental Purchasing Association (RMGPA) - A chapter member of the National Institute of Governmental Purchasing (NIGP), consisting of public procurement professionals and their representative agencies which include approximately 100 state, county, and municipal governments; school districts and higher education; and other special districts.

1.32.3 Members of these organizations, at their discretion, may request use of the contracts or awards that result from this solicitation. Each governmental entity which uses a contract(s) resulting from this solicitation would establish its own contract, issue its own orders, schedule deliveries, be invoiced individually, make its own payments, and issue its own exemption certificates as required by the Contractor. It is understood and agreed that Poudre School District is not a legally binding party to any contractual agreement made between another governmental entity and the Contractor as a result of this solicitation. The District shall not be liable for any costs or damages incurred by any other entity. Usage by any other entity shall not have a negative impact on the District in the current term or in any future terms.

2.0 CONTRACTOR'S RESPONSIBILITIES

- 2.1 The Contractor shall furnish all labor, materials and equipment, necessary for satisfactory Contract performance.
- 2.2 Upon request, proof will be available that the Contractor possesses adequate and sufficient equipment and resources to perform quality service and to commence work once the contract has been fully executed.
- 2.3 Contractor shall be responsible for all site cleanups, to include trash removal. District dumpsters are not to be used. The buildings and property of the District shall be left in an acceptable as found condition. All unusable materials and debris shall be removed from the District premises. At completion, the Contractor shall thoroughly clean up all areas where work has been involved as mutually agreed with the District's project manager.

- 2.4 The Contractor shall be responsible for disposing environmentally hazardous waste materials in a manner that is consistent with regulations stipulated by the United States Environmental Protection Agency (EPA) as well as with any state or locally prescribed procedures.
- 2.5 Contractor shall be solely responsible for the safety of its work, materials, equipment, tools, etc. on the site and shall, if deemed necessary or expedient, employ, at its own expense, the services of a competent watchman. The District disclaims all responsibility for the safety of the work, materials, equipment tools, etc. or for any damage, which may be done to same due to theft, or any other cause until such time as the District formally accepts the completed work.
- 2.6 Contractor agrees that it is fully responsible to the District for the acts or omissions of its subcontractors or of persons employed by them, in the same way as it is for the acts and omissions of persons directly employed by the Contractor. Nothing contained in the contract or any subcontract shall create any contractual relation between any subcontractor and the District.
- 2.7 Project estimates, schedules, work activity, other trades not included in the contract, inspections, and payment requests must be approved by the District's Project Manager.
- 2.8 Upon issuance of a purchase order, the Contractor shall adhere to the specified start and completion timeline stated on the purchase order and/or executed agreement. Failure to complete project within the stated dates could result in termination of the contract by the District.
- 2.9 Contractor shall visit the project site prior to commencement of work to verify working area project scope and safety issues.
- 2.10 Contractor shall furnish all required personal safety equipment.
- 2.11 Contractor shall promptly repair, replace or otherwise correct any of its workmanship and any parts, materials, components, equipment or other items in the work which contain faults or defects, whether such failures are observed by the District or Contractor before or after completion. The Contractor shall bear all costs of correcting such work covered by the warranties.
- 2.12 Contractor, at its own expense, shall repair or replace any damages to any equipment, facilities or other personal or real property owned or leased by the District which is damaged as a result of any such fault or defect, at no cost to the District.
- 2.13 Contractor will be responsible for providing a clean and safe environment surrounding the work area at all times, including, if necessary, fencing of equipment, storage and work area. The buildings and property of the District shall be left in an acceptable as found condition.

3.0 SCOPE OF WORK

The synthetic turf Project at Fossil Ridge High School includes removal of the existing 15-year old synthetic grass system including the sand-rubber infill; re-grading of the existing aggregate subgrade to re-establish the original crowned condition which could require additional aggregate (any additional aggregate will be priced per the unit pricing included in this proposal; addition of new composite 2x attachment materials; installation of synthetic resilient surfacing; and the installation of a new synthetic grass system, to include a 2”h. Pile Grass, rubber-sand mix infill system – with permanently inlaid striping for NFHS / CHSAA compliant Football (WHITE striping), Soccer, (YELLOW striping), Boys Lacrosse (RED striping), Girls Lacrosse (POWDER BLUE striping) and Field Hockey (DARK BLUE striping) layouts.

- 3.1 Project will be constructed under a single prime contract for the turf and installation and a single prime contract for the demolition and reinstallation of the new curb.
- 3.2 The Work shall be conducted in three (3) phase.
 - 3.2.1 Demolition of existing turf; demolition and reinstallation of drain and curb (by others); and installation of new synthetic turf.
 - 3.2.2 Before commencing Work, awarded Contractor shall submit a schedule showing the sequence, commencement and completion dates, and move-out and -in dates of District’s personnel for all phases of the Work.
- 3.3 Contractor shall begin the Work upon issuance of a District purchase order and a successful execution of the Limited Scope Contract.
 - 3.3.1 Contractor shall complete the Work within the Final Completion of the Contract date of August 16, 2019.
- 3.4 Inspect owner furnished contractor installed (OFCI) equipment or materials for damage, defects, missing components, etc. Report deficiencies to the District’s Project Manager immediately. Do not install deficient equipment or materials.
- 3.5 Contractor shall have limited use of premises for construction operations. Coordinate / verify these limitations with the District’s Project Manager.
 - 3.5.1 Limit use of premises to work in areas negotiated with the District’s Project Manager. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 3.5.2 Keep driveways and entrances serving premises clear and available to District, District’s employees, and emergency vehicles at all times.
 - 3.5.3 Do not use these areas for parking or storage of materials.
 - 3.5.4 Schedule deliveries to minimize use of driveways and entrances.
 - 3.5.5 Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

3.6 The District will occupy the premises during entire construction period, with the exception of areas under construction. Cooperate with the District during construction operations to minimize conflicts and facilitate District usage. Perform the Work so as not to interfere with District operations.

3.6.1 Maintain existing exits, unless otherwise indicated.

3.6.2 Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.

3.6.3 Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from the District and authorities having jurisdiction.

3.6.4 Provide not less than seventy-two (72) hours notice to the District Project Manager of activities that will affect District operations.

3.7 Work shall, generally, be performed during normal business working hours of 7:00 a.m. - 5:00 p.m., Monday through Friday, except otherwise indicated and or allowed by City of Fort Collins ordinance.

3.7.1 Weekend hours must be approved by District Project Manager prior to work.

3.7.2 Early morning hours not allowed before 7:00 a.m.

3.7.3 Late night hours generally not allowed, but limited night construction may be considered and must be coordinated with District Project Manager a minimum of five (5) days prior to commencing night time work.

3.8 Synthetic Grass Resurfacing

Furnish all labor, materials, tools and equipment required for a turnkey installation of a replacement synthetic grass system as indicated on the Drawings and/or as specified in this Section, but not limited to:

3.8.1 Reference Standards

The latest issue of the following specifications definitions and test methods are incorporated in this specification by reference:

- D1577 - Standard Test Method for Linear Density of Textile Fiber
- D5848 - Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering
- D418 - Standard Test Method for Testing Pile Yarn Floor Covering Construction
- D1338 - Standard Test Method for Tuft Bind of Pile Yarn Floor Covering
- D1682 - Standard Method of Test for Breaking Load and Elongation of Textile Fabrics
- D5034 - Standard Test Method of Breaking Strength and Elongation of Textile Fabrics (Grab Test)
- F1015 - Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces

- D4491 - Standard Test Methods for Water Permeability of Geo-textiles by Permittivity
- D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
- F355A - Standard Test Method for Shock-Absorbing Properties of Playing Surfaces.
- F1936 - Standard Test Method for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured in the Field
- D1557 - Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.

3.8.2 Quality Assurance

- A. Manufacturer of the synthetic grass system must have the experience of a minimum of fifty (50) successful infilled synthetic grass multi-use, full-size fields within the past five years of tufted or woven, polyethylene, grass-like fabrics that are filled with a mixture of SBR rubber and sand.
- B. Additionally, the Installer of the synthetic grass system must have a minimum of ten (10) years of experience and must have installed a minimum of ten (10) successful, multi-use fields. Successful Installer shall provide a list of contacts and phone numbers to the District's Project Manager for compliance check with this provision.

3.8.3 Submittals

- A. Product Certification: Prior to the order of materials, the Synthetic Turf Contractor / Manufacturer shall submit the following:
 1. Product Data that complies with requirements of the specifications.
 2. A minimum of 100,000 Lisport cycle test results, proven thru independent 3rd party testing. This certification / documentation must be provided with the proposal response.
 3. Submit test results indicating compliance with Reference Standards, including Independent Laboratory Test Results.
- B. Shop Drawings
 1. Within fourteen (14) calendar days after issuance of Notice to Proceed, submit to the District's Project Manager, a single set of electronic/PDF's of complete and detailed drawings showing component parts of the synthetic grass system. The shop drawings shall be to scale and shall include at a minimum the following:
 - a. Seaming plan
 - b. Seaming detail
 - c. Edge detail utilizing a composite nailer board

- d. Field layouts and striping plans for FIVE (5) sports
- e. Details on construction, especially any details that may deviate from the plans and specifications

C. Samples

1. Within fourteen (14) calendar days after issuance of Notice to Proceed, submit to the District's Project Manager:
 - a. Two (2), 24"x24" samples each of green turf showing method of seam makeup showing backing and perforations. Samples to contain example of inlaid lines in each of the colors specified.
 - b. Manufacturer's catalog cuts, material safety data sheets (MSDS), brochures, specifications; storage, handling requirements and recommendations.
 - Provide a letter from the manufacturer stating that the materials do not contain lead.
 - Submit fiber manufacturer's name, type of fiber and composition of fiber.
 - Submit data in sufficient detail to indicate compliance with the contract documents.
 - c. Submit manufacturer's instructions for installation.
 - d. Submit manufacturer's instructions for maintenance for the proper care and preventative maintenance of the synthetic grass system, including painting and markings.

D. Project Record Documents

1. Record actual locations of seams, drains and other pertinent information in accordance with Division 1 Specifications Series, General Requirements.

3.8.4 Testing and Quality Control

- A. Prior to final acceptance by the District, the Manufacturer / Installer shall furnish the District one PDF / electronic file of maintenance and operating data. Include at a minimum:
 1. Special care for snow removal
 2. Maximum equipment loads

- B. Use and limitations: Provide a separate page stating approved activity usage for the surfacing and activities not recommended relative to Warranty.
- C. Organization of data as follows: Materials installed with these characteristics - General Maintenance, Small repair procedures, Minor seam repair, Discussion of precautions to be practiced, General maintenance, and Uses to be avoided to protect turf surface to maintain the installations warranty, etc.

3.8.5 Manufacturer's Warranty

- A. Within fourteen (14) calendar days after issuance of Notice to Proceed, submit to the District two (2) sample copies of the warranty package, as follows:
 - 1. Warranty shall guarantee the usability and playability of the synthetic grass system for its intended uses for a minimum of eight (8) years, commencing from the date of substantial completion. The warranty submitted must have the following characteristics:
 - a. Must provide full-field coverage for the specified length of warranty from date of substantial completion – not prorated.
 - b. Must warrant materials and workmanship.
 - c. Must warrant that the materials installed meet or exceed the product specifications within manufacturing tolerances.
 - d. Must have a provision to either repair or replace such portion of the installed materials that are no longer serviceable to maintain a serviceable and playable surface.
 - e. Must be a manufacturer's warranty from a single source covering workmanship and all self-manufactured or procured materials.
 - 2. Contractor warrants that the synthetic grass materials shall not fade, fail, shrink, wrinkle or reflect excessive wear. Contractor shall, at its sole expense and cost, replace such areas of the synthetic grass system not performing to these standards for the real life of the warranty.
 - a. The term "not fade" in the context of this warranty shall mean that the synthetic grass material shall remain a uniform color of green, or other colors installed, with no significant loss of color.
 - b. In the event that the synthetic grass system does not retain its fiber height of shock absorbency and is consequently no longer serviceable during the warranty period, the Contractor shall, at its sole expense, replace such portions of the system that is no

longer serviceable.

- c. Contractor warrants that the permeable synthetic grass system shall drain vertically at a minimum of 10" per hour without visible surface ponding.

3.8.6 Warranty Testing

A. The synthetic grass field shall be tested at the following intervals:

1. Following initial installation to establish compliance with these specifications
2. The end of year one (1)
3. Beginning of year five (5), and
4. The beginning of year eight (8), for the following minimum criteria:
 - a. G-max.
 - b. Force reduction.
 - c. Percolation.
 - d. Infill level.
 - e. Pile height.

B. Tests are to be performed in accordance with applicable ASTM and other relevant standards.

C. Test locations for the G-max as designated in F-1936-98/modified shall be located for a minimum of six (6) locations. Included in the report shall be the measured depth of the infill at all test locations.

D. Test results will be provided from an independent third-party testing company verifying that the field does not exceed an average G-max of 125 at completion. The Installer shall warrant the field to not exceed a G-max of 150 for the entire warranty period as specified above.

E. Costs for this testing are to be paid for by the Installer.

3.8.7 Delivery and Inspection of Materials

A. Prior to the installation of any materials and immediately upon delivery of the synthetic grass materials and components to the project site, the Installer / Contractor shall inspect materials as follows:

1. For damaged or defective items
2. Measure turf pile height and roll lengths

3. Inspect the perforations and uniformity
4. Adhesives shall arrive in sealed dry containers
5. Rubber infill shall arrive in large sacks or backs without tears and loose material
6. Rubber infill shall arrive dry and loose; No rubber will be accepted that is bulked or solid.

3.8.8 Existing Conditions

- A. The new synthetic grass is being installed on an existing base of compacted, porous aggregate, the synthetic grass. The Installer / Contractor will be responsible for any damage to the base during the removal / installation of the synthetic grass system after the deficiencies (if any) have been corrected by the base contractor with respect to planarity, compaction and drainage/permeability.

3.8.9 Infilled Synthetic Grass: The grass system shall be a vertically draining permeable synthetic grass system, consisting of synthetic grass-like surface pile, which shall be tufted or woven into a synthetic backing.

3.8.10 Backing layers and coating shall be firmly bonded together. The entire system shall be resistant to weather, rot, mildew and fungus growth, and be non-allergenic and non-toxic. The complete system shall be constructed to maximize dimensional stability, to resist damage and normal wear and tear form its designated use, and to minimize ultraviolet degradation.

3.8.11 Specifications for Synthetic Grass System

A. Product Requirements:

1. Turf Pile Content: Pile fiber yarns shall be U.V. resistant, "dual fiber" product made up of both polyethylene monofilaments blended with polyethylene fibrillated slit film fibers and integrated into backing materials, produced to mimic a grass-like surface as indicated below (or approved alternate):
 - a. Finished Pile Height: 2" at the time of installation (per ASTM D418)
 - b. Fabric Width: 15' at the time of installation
 - c. Melting Point: minimum of 128 degrees C.
 - d. Product shall contain no "thatch" or "root zone" layer.
 - e. Yarn Thickness: 365 microns minimum (monofilament fiber) and 110 microns (fibrillated slit film fiber).

- f. Denier: Minimum of 20,000 (per ASTM D1577)
 - g. Minimum Face Weight: 52.0 oz. / sq.yd. (per ASTM D418 / D5848)
 - h. Minimum Total Weight: 80 oz. / sq.yd.
 - i. Tuft Bind Strength: 10 lbs. minimum (per ASTM D 1335)
 - j. Water Permeability: See C.3. below.
 - k. Color(s): Field/Lime/Olive Green or similar. Final colors to be selected from the Manufacture's "standard" palette of green(s).
- B. Infill Material: An infill that is a controlled mixture of a graded, washed silica sand and rounded, SBR 100% recycled rubber that partially covers the carpet (or approved alternate).
- 1. Silica Sand: Must be siliceous (95%, minimum), washed and dry. Grain size must be 0.5 to 1.2 mm and as round as possible.
 - 2. Rubber granules must be clean with 1% of small elements under 0.5 mm (30 mesh).
 - 3. Infill must be installed per Manufacturer's specifications.
 - 4. Infill material shall be applied in a dried condition, and only when the turf is dry.
 - 5. Sand – Rubber Ratio – provide a combination infill utilizing a range of 4.5 to 6.0 lbs. / sq.ft. as required / recommended for the Contractor's particular product / system.
- C. System
- 1. Depth of Infill - Per Manufacturer's recommendation to meet the physical requirements.
 - 2. Impact attenuation – As indicated in 3.8.6 above.
 - 3. Permeability – 10" per hour minimum installed (per ASTM D4491)
- D. Seaming: Gluing and / or sewing of seams will be allowed. Manufacturer to provide system that will fully meet the warranty objectives included with this specification.
- 1. If glued, the glue shall be Nordot 34G as manufactured by Synthetic Surfaces, Inc. or Scotch Plains, NJ or approved alternate. The adhesive shall be applied at the minimum rate 40 sq.ft. per gallon. The adhesive shall have a similar warranty period as the synthetic grass.

- E. Nailer Board: Synthetic grass shall be attached to the perimeter edge as detailed on the Plans. Nailer board must be a composite type of product. Redwood, treated / wolmanized lumber will not be allowed.

3.8.12 Examination

- A. Verify that all sub-base compaction and leveling is complete prior to installation.
 - 1. Installer shall examine the surface to receive the synthetic grass and accept the re-graded / re-worked sub-base planarity in writing prior to the beginning of installation.
 - a. Acceptance is dependent upon the test results indicating compaction and planarity are in compliance with Manufacturer's requirements and these specifications.
 - b. The surface shall be accepted by Installer as "clean" as installation commences and shall be maintained in that condition throughout the process.
 - 2. Compaction of the aggregate base shall be 95%, in accordance with ASTM D1557 (Modified Proctor procedure); and as specified in Section 32 18 14 – Synthetic Grass Subgrade.
 - a. Correct conditions detrimental to timely and proper completion of Work.
 - b. Do not proceed until unsatisfactory conditions are corrected.
 - 3. Beginning of installation means acceptance of existing conditions.

3.8.13 Preparation

- A. Prior to the beginning of installation, inspect the sub-base for tolerance to grade.
- B. Sub-base acceptance shall be subject to receipt of test results (by others) for compaction and planarity that sub-base is in compliance with Manufacturer's specifications and recommendations. The surface to receive synthetic grass shall be inspected by the Installer, and prior to the beginning of installation, the Installer must accept, in writing, the sub base surface for planarity, compaction and grading. The surface must be clean as installation commences and shall be maintained in that condition throughout the process.
- C. Any damage to the base during the synthetic grass installation must be repaired and returned to original planarity and compaction at the sole cost of the synthetic grass installer.

- D. Dimensions of the field and locations for markings shall be measured by a registered surveyor to verify conformity to the specifications and applicable standards. A record of the finished field as-built measurements shall be made.

3.8.14 General

- A. The installation shall be performed in full compliance with the previously approved Shop Drawings.
- B. Only trained technicians, skilled in the installation of athletic caliber synthetic grass systems working under the direct supervision of the approved installer supervisors, shall undertake any cutting, gluing, sewing, shearing, topdressing or brushing operations.
- C. The designated Supervisory personnel on the project must be certified, in writing by the Manufacturer, as competent in the installation of this material, including sewing or gluing seams and proper installation of the infill materials.
- D. Designs, markings, layouts, and materials shall conform to all currently applicable NFHSA / CHSAA rules, and/or other rules or standards that may apply to this type of synthetic grass installation. Designs, markings and layouts shall first be approved by the District's Project Manager in the form of final shop drawings. Markings will be installation and full compliance with final shop drawings and NFHSA / CHSAA Standards and requirements.
- E. Perform work in strict accordance to the Drawings, Shop Drawings and Manufacturer's specifications and installation instructions.
- F. Weather Permitted Conditions: The Contractor shall not perform any work if the conditions for working are:
 - 1. Ambient air temperature is below 45 degrees F
 - 2. Material temperature falls below 45 degrees F
 - 3. Rain is forecast or falling
 - 4. Conditions exist or are pending that will be unsuitable to the installation of the system.

3.8.15 Carpet and Infill Installation at Stadium

- A. The Contractor shall strictly adhere to specified procedures. Any variance from these requirements shall be provided in writing, by the Manufacturer's on-site representative, and submitted to the District's Project Manager, verifying that the changes do not in any way affect the Warranty. Infill materials shall be approved by the Manufacturer and installed in accordance with the Manufacturer's standard procedures.

- B. Carpet rolls shall be installed directly over the properly prepared aggregate base. Extreme care shall be taken to avoid disturbing the aggregate base, both in regard to compaction and planarity.
 - 1. Repair and properly compact any disturbed areas of the aggregate base as required.
- C. Full rolls shall be laid out across the field.
 - 1. Turf shall be of sufficient length to permit full cross-field installation from soccer sideline to sideline.
 - 2. No head or cross seams will be allowed in the main playing area between the soccer and football sidelines.
 - 3. Each roll shall be attached to the next roll utilizing standard state-of-the-art sewing or gluing procedures.
 - 4. When all of the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing field.
- D. Seaming
 - 1. Seams shall be flat, tight, and permanent with no separation or fraying.
 - 2. Bonding and seaming must maintain their integrity for the total length of the warranty period.
 - 3. Grass seams shall be bonded with a supplemental backing material. For bonded seams, use either open-graded nylon or polyester scrim/backing material. No shaving is allowed.
 - 4. Corners and sharp edges of inlaid turf must be fastened by gluing, sewing or with other acceptable methods.
 - 5. Seams shall be brushed to provide full coverage of fiber over seam.
- E. Infill Materials
 - 1. Infill materials shall be applied in numerous thin lifts. The carpet shall be brushed and or dragged as the mixture is applied according to the Manufacturer's recommendations, to distribute infill material uniformly to the backing throughout the system. The infill material shall be installed to a depth determined by the Manufacturer to meet the required G-Max specification.
 - 2. Infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional. The infill installation consists of a base layer of sand followed by a

homogenous mixture of the sand and the processed rubber. A final application of specifically sized processed rubber completes the system. The infill shall be placed so that there is a void of ½" to ¾" to the top of the fibers.

- F. Synthetic grass shall be attached along the perimeter, as detailed on the Drawings. Provide a full length, stapled condition, with staples located at a minimum of 8" oc. or in accordance with the Manufacturer's recommended standard procedures – whichever is greater.

3.8.16 Field Markings

- A. Field markings shall be installed in accordance with approved shop drawings. Football is designated as the primary sport, and all five-yard lines must be tufted / woven-in at the center of each roll.
- B. Balance of sports markings will be inlaid in accordance with the approved Shop Drawings. There are no painted lines.
- C. The remaining lines, numbers and field markings shall be installed with the specific colored turf as identified on the Drawings and the specific widths and layout preference identified below. Markings shall be uniform in color, providing a sharp contrast with the grass color and shall have sharp and distinct edging. Markings shall be true and shall not vary more than ½" from specified width and location.
 - 1. Football – Field lines shall be 4" wide, including the goal lines and hash marks
 - 2. Soccer – Field lines shall be 4" wide. Field layout line preference: Break soccer lines at football lines.
 - 3. Boys Lacrosse – Field lines shall be 4" wide. Field layout line preference: Break Boys Lacrosse lines at football lines.
 - 4. Girls Lacrosse - Field lines shall be 4" wide. Field layout line preference: Break Girls Lacrosse lines at football lines.
 - 5. Field Hockey - Field lines shall be 4" wide. Field layout line preference: Break Field Hockey lines at football lines.
- D. Synthetic grass and fibers utilized for the inlaid lines, marks and logos, should be similar to that used in all other areas of the field and installed to the same tolerances.

3.8.17 Adjustment and Cleaning

- A. Do not permit traffic over unprotected surface.
- B. Contractor shall provide the labor, supplies, and equipment as necessary for final cleaning of surfaces and installed items.

- C. The Contractor shall keep the area clean throughout the project and clear of debris, including removing all stains and other blemishes from all finished surfaces.

3.8.18 Protection

- A. Protect installation throughout construction process until date of substantial completion.
- B. Material / Installation damaged prior to acceptance by the District shall be replaced at no cost to the District.

3.8.19 Deliver extra synthetic grass materials for future repairs to the District as follows:

- B. Material may be roll ends or cutoffs, however, each piece of fabric shall be at least 5'x10'. At least one green grass piece shall be 10' x 15'. The following are minimum areas for the extra synthetic grass materials to be provided by the Installer.
 1. Standard Green Grass – 500 sq.ft.
 2. White Grass – 25 lin.ft. (4" wide)
 3. Yellow Grass – 25 lin.ft. (4" wide)
 4. Red Grass - 25 lin.ft. (4" wide)
 5. Powder Blue Grass - 25 lin.ft. (4" wide)
 6. Dark Blue Grass - 25 lin.ft. (4" wide)

3.9 Synthetic Resilient Surfacing (Shock Pad)

The Contractor shall furnish all labor, material, and equipment to complete installation of Synthetic Grass Shock Pad including the necessary and incidental items, in accordance with the Contract Drawings and these Specifications.

3.9.1 Reference Standards

- A. The latest revision of the following standards of the American Society of Testing and Materials (ASTM) and the European committee for standardization (CEN) are hereby made a part of these specifications:
 - ASTM D 3575, Standard Test Methods for Flexible Cellular Materials Made from Olefin Polymers.
 - ASTM D 4491, Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
 - ASTM D 4716, Standard Test Method for Determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a

Geosynthetic Using a Constant Head

- ASTM F 355 (method A), Standard Test Method for Impact Attenuation of Playing Surface Systems and Materials
- EN 1177, Impact attenuating playground surfacing - Determination of critical fall height
- EN 14808, Surfaces for sports areas - Determination of shock absorption
- EN 14809, Surfaces for sports areas - Determination of vertical deformation
- EN 1969, Surfaces for sports areas - Determination of thickness of synthetic sports surfaces
- EN 12230, Surfaces for sports areas - Determination of tensile properties of synthetic sports surfaces
- EN 13744, Surfaces for sports areas - Procedure for accelerated ageing by immersion in hot water
- EN 13817, Surfaces for sports areas - Procedure for accelerated ageing by exposure to hot air
- EN 12616, Surfaces for sports areas - Determination of water infiltration rate
- EN 12667, Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance
- ISO 9001, Quality management systems - Requirements

3.9.2 Submittals

Provide the following a minimum of fourteen (14) prior to the installation of the product:

- A. Two (2) 12" x 12" samples of the specified shock pad.
- B. Technical specifications, containing the typical values for the reference standards (3.9.1) of the shock pad.
- C. Installation manual for the shock pad.
- D. Manufacturer's warranty for shock pad.
- E. MSDS for the shock pad and all other products to be used for installation.
- F. Declaration of Conformity (DoC) and site sample
 - 1. Prior to shipping to the site, the Contractor shall submit
 - DoC stating that the Delivered shock pad is tested according to the ISO 9001 certified control scheme and that the values meet the typical values of the provided technical specifications, and
 - Sample (12" x 12") of the shock pad to be delivered to site

3.9.3 Quality Assurance

- A. Manufacturer to be a member in good standing of the Synthetic Turf Council.
- B. Manufacturing facility to be ISO 9001 certified
- C. Certification from manufacture that their products have been used in projects meeting the requirements for FIFA and IRB.
- D. Certification from supplier of no shock pad related field failures and list with contacts if applicable failures have occurred
- E. Certification that product is at least 90% post- industrial reclaimed material

3.9.4 Products - Synthetic Grass Shock Pad

- A. The Shock Pad shall be ProPlay-Sport 23D as manufactured by Schmitz Foam Products or approved alternate.
- B. The PEX foam flakes shall be sourced from clean post-industrial (pre-consumer) waste.
- C. The PEX foam flakes shall be closed-celled; the bonding of the PEX foam flakes shall be open to water infiltration.
- D. The PEX foam flakes shall be thermally bonded to a PES spunbond textile, with a mass of 70 g/m².
- E. The shock pad shall be manufactured in panels.
- F. The shock pad sheets shall contain expansion slots (to the plane), to take in thermal expansion.
- G. The shock pad shall meet or exceed all performance properties listed below:

TABLE 1			
REQUIRED PERFORMANCE PROPERTIES FOR SYNTHETIC GRASS SHOCK PAD			
PROPERTY	STANDARD	UNIT	TYPICAL VALUE
Thickness [1]	EN 1969	mm / in.	23 / 0.91
Mass per unit area		lb. / square foot	0.84

Tensile strength [2]	EN 12230	psi	46
Compressive strength @ 25% deflection Thickness after 72-hour recovery	ASTM D 3575	psi inches	270.
Compressive strength @ 50% deflection Thickness after 72-hour recovery	ASTM D 3575	psi inches	830.
Water flow rate under 2" hydraulic head	ASTM D 4491	gpm / ft ²	9.8
Water permeability by permittivity	ASTM D 4491	gpm / ft ²	4.4
Hydraulic transmissivity [3]	ASTM D 4716	gpm / ft	45
Water infiltration rate	EN 12616	in/hr.	Greater than 700
Gmax / Impact attenuation [4]	ASTM F355	-	80 - 110
Shock absorption	EN	%	57
Vertical deformation	EN	mm / in.	6.3 / 0.25
/ 0.25Stability after aging [5]	EN 13744 + EN 13817	%	0.3
Thermal conductivity	EN 12667	W/m.K	0.05
[1] at a load of 2 kPa [2] tensile stress by tensile strength and product thickness [3] by in-plane flow rate at a hydraulic gradient of 0.005 (slope = 0.5%) and a load of 2 kPa [4] with typical turf system [5] by product dimensions			

3.9.5 Warranty

- A. Shock pad to be covered by Manufacturer's standard warranty

3.9.6 Alternate Products

- A. Alternative shock pads shall be submitted for Architect/Engineer's approval a minimum of fourteen (14) days prior to bid date.
- B. Alternative shock pads shall demonstrate performance equivalency to the properties as listed in TABLE 1 of this section.
- C. The manufacturer of the alternative shock pad shall demonstrate to the District that the proposed shock pad has been successfully installed on a minimum of twenty (20) similar size fields or larger, with ten (10) fields being in use for five years or more, using the exact proposed

shock pad.

Proof of previous installations shall consist of

- Location of installation
- Description of use
- Contact information of Owner

D. The manufacturer of the alternative shock pad must certify that the proposed material has not been installed in any synthetic turf fields where it has been documented to be a contributing factor to a catastrophic field failure.

3.9.7 Installation

- A. The Contractor and the Installer shall handle the shock pad with caution to ensure it is not damaged in any way. Precautions shall also be taken to prevent damage to the sub-base during the installation of the material.
- B. Prior to the shock pad installation, the sub-base shall be tested and approved by the District, and accepted by the synthetic grass system installer.
- C. Per the plans and specifications, install a permeable geotextile as applicable.
- D. Shock pad is installed as a series of interlocking panels per the instructions provided by the manufacturer
- E. Detailed installation guidelines (e.g. installation manual) shall be requested by shock pad Installer and provided by shock pad manufacturer

3.10 Synthetic Grass Aggregate Subgrade

Furnish and install up to 200 Tons of Type 2 “Leveling Stone” of free draining processed aggregate over the existing / regraded aggregate base to help achieve the original / proposed surface elevations. See Proposal Form for additional information re: this Leveling Stone quantity / Unit Price. Not to be included in Base Bid but based on Unit Price per amount needed during construction.

3.10.1 Qualifications

- A. Sub grade Installer: Must have a minimum of five (5) years of experience and have installed a minimum of five (5) successful, similar installations (golf course work, synthetic grass drainage course work, aggregate parking lot sub base work, etc.).
- B. Aggregate Supplier: A qualified material supplier must be selected under this contract to produce and deliver the specified aggregates in available

quantities to the job site, coordinated with the General Contractor's time table for installation.

1. Supplier's materials are subject to compliance with preliminary laboratory analysis meeting the materials Specifications.

3.10.2 Aggregate Grade Verification: Contractor shall provide a surveyed verification of grades on a 10' grid across the sub grade. Following final compaction and fine grading, surface shall not have deviations in surface shape greater than 1/4" over a 10' span.

- A. String Line Verification: Contractor shall verify final grade using the "string line" method – lengths of 50' – 100' string pulled taught with high / low spots marked and hand dressed prior to installation of synthetic resilient surfacing and Owner Furnished and Contractor Installed synthetic grass and infill system.

3.10.3 Submittals

- A. Provide under provisions of Division 01 Specification Sections.
- B. Quality Control Submittals: Submit testing results for each source of material.

1. Provide the following:

- Gradation
- Aggregate quality
- Liquid Limits
- Plasticity index

2. Test results will be the basis for field quality control.

3.10.4 Delivery, Storage and Handling

- A. Deliver, store, protect and handle materials under provisions of Division 01 Specification Sections.
- B. Stockpile delivered materials near installation areas. Material will be inspected upon delivery to the site. Immediately remove unacceptable material from the site.
- C. Should any separation of the materials occur, during any stage of the spreading or stockpiling, the Contractor must immediately remove and dispose of segregated/contaminated material and correct or change handling procedures to prevent any further separation.
- D. Install processed aggregates to the lines and grades shown on the Drawings. Under no circumstances shall material be pushed more than 30' from the point of discharge. Each aggregate layer must be spread uniformly with equipment that will not cause perceptible separation in gradation (separation of aggregates).

E. Drainage, Ground Water and Weather Conditions:

1. Maintain excavations free from water during construction.
2. Remove water encountered during construction to the extent necessary to provide a firm subgrade and remove standing water.
3. Do not construct aggregate base course during freezing weather.
4. Do not place on frozen surfaces.
5. Do not place frozen materials, snow or ice in aggregate base course.
6. Do not deposit, tamp, toll or otherwise mechanically compact in water.

3.10.5 Permeable Aggregate Base Material

A. The aggregate materials utilized to construct the base must be a properly graded, crushed stone to provide a balance between stability and permeability. Aggregates shall conform to Department of Transportation specifications for crushed rock and shall be placed and compacted to the minimum depth shown on plans:

1. Type 1 - Base Stone: "¾" Material" - 4" deep (or as needed to full backfill the excavated / demo area immediately adjacent the replacement attachment curb). Aggregates must be fractured/crushed on a minimum of three (3) faces. Material shall be devoid of mineral fines. Round sands or aggregates are prohibited. Contractor to provide gradation certification and verification of stone fracture prior to delivery and installation. Crushed recycled concrete shall NOT be allowed.

<u>Mesh Size</u>	<u>Specification % Passing</u>
1-1/2"	100
1"	100
¾"	90 - 100
½"	25 - 60
3/8"	20 - 55
#4	0 - 10
#8	0 - 5

Approved Material: Martin Marietta "Specification 57 / 67" – Granite Canyon or approved alternate.

2. Type 2 - Leveling Stone: "Crusher Dust Material" – 2" deep. Aggregates must be fractured/crushed on a minimum of three (3) faces. Material shall be devoid of mineral fines. Round sands or aggregates are prohibited. Contractor to provide gradation certification and verification of stone fracture prior to delivery and installation. Crushed recycled concrete shall NOT be allowed.

<u>Mesh Size</u>	<u>Specification % Passing</u>
3/8"	100
#4	70 - 100
#8	40 - 65
#16	25 - 50
#30	19 - 34
#50	12 - 25
#100	7 - 20
#200	8 - 18

3.10.6 Examination

- A. Verification of Conditions: Verify that existing site conditions are as specified and indicated before beginning work under this Section.
 - 1. Grades: Verify prepared subgrade is within required subbase tolerance. Verification shall be by means of laser operated survey equipment in the synthetic grass field areas for subbase and finish grade compliance.
- B. Unsatisfactory Conditions: If Subcontractor, report unsatisfactory conditions in writing to General Contractor with copy to Owner's Representative.
- C. Acceptance: Beginning of aggregate installation means acceptance of existing conditions / subgrade by Installer.

3.10.7 Installation

- A. Permeable Aggregate Base Course Placement:
 - 1. Do not stockpile aggregates at the site. Place directly on existing / prepared aggregate base grade by conveyor or lightweight hauler that will not damage the track.
- B. Planarity: The finished surface of the aggregate base course shall not vary more than 1/4" from the elevations, grades and cross sections on the Drawings / these specifications. The Contractor shall submit a certified, girded survey (blue topped) with a maximum of 15' intervals, to verify compliance with the finished surface grading plan as shown on the Drawings.
 - 1. Areas that deviate should be marked with spray paint and corrected with leveling stone and rolled to achieve proper density. Such remedial actions should be done by hand and rechecked by means of test procedures described elsewhere in this specification.

3.10.8 Field Quality Control

- A. After the Contractor has independently confirmed compliance with the above tolerances (planarity and elevations verified by a licensed surveyor, compaction, gradation and permeability verified by an approved

geo-technical engineer) he shall notify the Owner's Representative and the synthetic grass contractor for final inspection and approvals.

3.10.9 Disposal of Surplus and Waste Materials

- A. Disposal: Remove surplus satisfactory soil, aggregates and waste material, including unsatisfactory soil, trash, and debris, and legally dispose of it off the District's property.

4.0 REVIEW AND ASSESSMENT

- 4.1 Professional firms will be evaluated on the following General Qualifications criteria. These criteria will form one basis for review of the written proposals and interview session. A cumulative point system will be used.
- 4.2 The rating scale will be from **0** to **5**
0 = Does Not Meet Minimum Criteria, 5 = Exceptional

	Score (0-5)	Comments
Previous successful projects in the last five (5) years		
Comprehensive Proposal		
Adherence to specifications		
Supporting documentation		
References		
Warranty		
Costs		
TOTAL POINTS		

5.0 REFERENCE EVALUATION (TOP RANKED FIRM)

5.1 The District Project Manager will check references using the following criteria. The evaluation rankings will be labeled Satisfactory/Unsatisfactory.

QUALIFICATION	STANDARD
Overall Performance	Are you pleased with the Contractor's performance? Would you continue to exercise your contract with this Contractor, if given a choice?
Thoroughness	Did the Contractor follow through with the Project in the exact manner agreed upon, keeping you informed of status, and on-schedule? Was there connectivity between the sale, services provided, and final results?
Knowledge of Synthetic Turf Systems	Was there an understanding of professional practices and procedures? Were the specifications complete, thorough and accurate? Is the product the right "fit" for the District?
Specific Contract Requirements	Was the Contractor able to meet required schedules? Are the products/services accurate, complete and professional? Is there a dedicated representative?

6.0 SUPPORTING DOCUMENTATION

6.1 Provide a Unit price for the Synthetic Grass Aggregate Subgrade

6.1.1 Unit price shall be **per ton delivered and installed**.

6.1.2 Unit Price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

6.1.3 Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.

6.1.4 The District reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at the District's expense, by an independent surveyor acceptable to Contractor.

6.2 Specify manufacturer and model number of synthetic turf proposed.

6.3 Specify manufacturer and model number of shock pad proposed.

6.4 Provide warranty information for synthetic turf proposed.

6.5 Provide warranty information of shock pad proposed.

7.0 **INSURANCE**

Service Provider shall procure and maintain the required insurance specified below for the duration of this Agreement, which insurance shall be written for not less than the amounts specified or greater if required by law. Specified coverage amounts may be provided by a combination of a primary policy plus an umbrella or following form excess policy. If not otherwise required by law, lower amounts may be acceptable upon review and written approval by the District's Director of Records and Risk Management. All insurance shall be with a carrier licensed in the state of Colorado and shall have a minimum A.M. Best rating of A- VII. Service Provider shall furnish the District's Director of Records and Risk Management with certificates of the required insurance prior to the District's approval and signing of this Agreement, and with renewal certificates prior to the expiration of any required insurance that expires during the term of this Agreement. The standard wording of said certificates shall be amended to state that coverage provided is primary and is not excess to or contributing with any insurance or self-insurance maintained by Service Provider. Service Provider shall provide at least thirty (30) days' advance written notice to the District prior to cancellation or change of coverage. The insurance requirements specified in this section shall not reduce the indemnification liability that Service Provider has assumed in Section 9.1 below.

Commercial General Liability

- a. Each Occurrence Bodily Injury & Property Damage \$1,000,000
- b. Each Event Personal Injury \$1,000,000
- c. General Aggregate \$2,000,000
- d. Coverage must be written on an "occurrence" basis
- e. Poudre School District and its elected officials and employees shall be named as additional insureds; copy of policy endorsement must be attached to the Certificate of Insurance

Commercial Automobile Liability Providing Coverage for Owned, Non-Owned, and Leased or Hired Vehicles (Only if Contractor operates vehicles in performing any services under this agreement)

- a. Bodily Injury & Property Damage Combined Single Limit \$1,000,000
- b. Medical Payment Coverage \$5,000
- c. Poudre School District and its elected officials and employees shall be named as additional insureds; copy of policy endorsement must be attached to the Certificate of Insurance

Workers' Compensation (Unless Contractor is a sole proprietorship)

- a. State of Colorado Statutory
- b. Employer's Liability \$500,000 Each Accident
\$500,000 Disease – Policy Limit
\$500,000 Disease – Each Employee

- c. Waiver of subrogation in favor of Poudre School District R-1; copy of policy endorsement must be attached to the Certificate of Insurance

This requirement shall not apply if Contractor is exempt under the Colorado Workers' Compensation Act **AND** if Contractor has a current Workers' Compensation Coverage Rejection on file with the Colorado Department of Labor and Employment, Division of Worker's Compensation.

7.1 Indemnification

Contractor shall indemnify and hold harmless the District and the District's Board members, employees, representatives and agents from and against any and all liability arising from any suit, action, grievance, charge or proceeding brought in connection with or related to Service Provider's operations, provision of services and/or conduct of any of its employees, volunteers, agents or representatives. The indemnification and hold harmless obligation hereunder shall include all attorney fees, costs and expenses incurred by the District and/or the District's Board members, employees, representatives and/or agents in defense of said suits, actions, grievances, charges and/or proceedings. Nothing in this section or otherwise in this Agreement shall be construed in any way or applied in any manner as a compromise or waiver of the District's rights and protections under the Colorado Constitution or the Colorado Governmental Immunity Act.

8.0 **MODEL FORMAT OF PROPOSAL**

To simplify the review process and obtain the maximum degree of comparability, proposals **must** be organized in the manner specified below.

8.1 **Title Page**

8.1.1 Show the solicitation subject, the name of the proposing Contractor, local address, telephone number, name of the contact person and the date.

8.2 **Table of Contents**

8.2.1 Include a clear identification of the material by section and by page number.

8.3 **Letter of Transmittal** – Limit to three (3) pages.

8.3.1 Briefly state the Contractor's understanding of the work to be done. Make a positive statement that deadlines specified in the solicitation will be met.

8.3.2 State the names of the persons who will be authorized to make representations for the Contractor, their titles, addresses, phone numbers, and email addresses.

8.4 **Contractor's Approach**

8.4.1 Submit a work plan to accomplish the scope and questions defined in the **Scope of Work** (Section 3.0) meeting the established critical deadlines for delivery.

8.4.2 Responses should be formatted in order, labeled as such, and follow the exact sequence of the solicitation Scope of Work section.

8.4.3 Clarification questions and requests for information throughout the solicitation shall be clearly labeled with the section and subsection number and include the Contractor's response/information.

8.4.4 Any and all assumptions shall be clearly stated in the Contractor's response. Assumptions that are not clearly indicated, but raised later in the award process, may be grounds for the Contractor's response to be considered non-responsive.

8.4.5 No open-ended paragraphs or non-sequential responses will be accepted.

8.5 **References**

8.5.1 Provide references (organization names, contact names, addresses, email addresses and phone numbers), as requested in Section 1.15. References will be checked as per Section 5.0.

8.6 **Supporting Documentation**

8.6.1 Supporting documentation shall be clearly labeled "RFP 19-345-001."

8.7 **Proposal Certification**

8.7.1 Submit the completed form in Section 9.0.

8.8 **Proposal Form**

8.8.1 Submit the completed form in Section 10.0.

9.0 **PROPOSAL CERTIFICATION**

**FRHS SYNTHETIC TURF AND INSTALLATION
RFP #19-345-001**

Proposals must be submitted and received in BidNet’s electronic solicitation portal on or before 2:00 p.m. MST on April 24, 2019.

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the company issuing this proposal and that all information provided in the proposal is true and accurate.
- He/she has read the conditions and technical specifications, which were made available to the company in conjunction with this solicitation, and fully understands and accepts these terms unless specific variations have been expressly listed in the proposal.
- The company will adhere to all terms and conditions and provide, at a minimum, all services as expressed in the solicitation and/or the company’s proposal responding to the solicitation.
- The company meets or exceeds all of the required criteria as specified by this solicitation, or if not, has submitted a Justification for Consideration addressing any failure to meet the criteria.
- The company’s proposal is being offered independently of any other Contractor and in full compliance with the terms specified in Sections 1 and 2 of the solicitation.
- The company will accept any awards made to it, contingent on contract negotiation, as a result of this solicitation for a minimum of ninety (90) calendar days following the date and time of the solicitation opening.

Company Name: _____

Signature of Agent: _____

Printed Name: _____

Title: _____

E-mail address: _____

Mailing address: _____

Telephone & Fax: _____

Contact Person: _____
(If different from Agent) Include e-mail address and phone number.

NOTE: Proposals submitted without the signature of an authorized agent of the company may be considered non-responsive and ineligible for the award.

10.0 PROPOSAL FORM

**FRHS SYNTHETIC TURF AND INSTALLATION
RFP #19-345-001**

Provide the information requested below. The District reserves the right to reject any or all Bids or any parts thereof. The District's intent is to award a single Contract to one Contractor.

Contractor proposes to furnish all labor and material to complete the execution of Work described in the Proposal Documents.

BASE BID LUMP SUM PROPOSAL

_____ Dollars (\$_____)

UNIT PRICE – AGGREGATE SUBGRADE, INSTALLED

_____ Dollars (\$_____ /Ton)

Confirm the Addenda that have been received. The modifications to the Bid Documents noted in all Addenda issued have been considered and all costs are included in the Bid Sum. It is solely the responsibility of the Contractor to confirm all project Addenda have been received and included in the submitted Bid (and alter the list below):

Addendum # _____ Dated _____ Signature _____

Addendum # _____ Dated _____ Signature _____

Addendum # _____ Dated _____ Signature _____

CONFIRMATION OF SCHEDULE:

The undersigned Contractor agrees to achieve Substantial Completion of the Project, including Alternates, on the following date. There is no early incentive offered by the District. Intent is to confirm Contractor will complete the project no later than **August 16, 2019**.

Company Name: _____ Date: _____

Authorized Company Representative's Printed Name: _____

Authorized Company Representative's Signature: _____