SECTION 00 01 02 - PROJECT INFORMATION

PART 1  GENERAL

1.1 PROJECT IDENTIFICATION

A. Project Name: Northwood University DeVos Turf Building, located at:

   4000 Whiting Dr.

   Midland, MI 48640

B. The Owner, hereinafter referred to as Owner: Northwood University

1.2 NOTICE TO PROSPECTIVE BIDDERS

A. These documents constitute an Invitation to Bid to Contractors for the construction of the project described below.

1.3 PROJECT DESCRIPTION

A. Summary Project Description: Indoor field turf replacement.

B. Contract Terms: Lump sum (fixed price, stipulated sum).

1.4 PROJECT CONSULTANTS

A. Owner’s FEMA Consultant: CSRS.
   3. Phone/Fax: 225.769.0546.
   4. Contact: John Nsibirwa
   5. E-mail: john.nsibirwa@csrsinc.com.

   1. Address: 1515 Arboretum Dr SE
   2. City, State, Zip: Grand Rapids, MI 49549.
   3. Contact: Bill Zaske 616-260-4628
   4. Email: bzaske@fishbeck.com

1.5 BIDDING TIMETABLE

A. Bid Due Date: September 10, 2021 at 2:00 PM local time.

B. Bids May Not Be Withdrawn Until: 30 days after due date.


D. Desired Substantial Completion Date: Not later than 45 calendar days from Installation Start.
Please note in your Bid response if the schedule above can be completed on time. If you cannot meet the desired construction timeframe, please provide an alternate construction timeframe on your bid form.

E. Completion date is critical due to requirements of Owner’s operations.

F. The Owner reserves the right to change the schedule or terminate the entire procurement process at any time.

PART 2  PRODUCTS (NOT USED)

PART 3  EXECUTION (NOT USED)

END OF SECTION
DIVISION 00  BIDDING AND CONTRACTING REQUIREMENTS

00 01 02  Project Information
00 01 10  Table of Contents
00 02 13  Instructions to Bidders
00 41 00  Bid Form

DIVISION 01  GENERAL REQUIREMENTS

01 11 00  Summary of Work

DIVISION 32  EXTERIOR IMPROVEMENTS

32 18 23  Infilled Synthetic Field Turf
SECTION 00 21 13 - INSTRUCTIONS TO BIDDERS

INVITATION

1.1 BID SUBMISSION

   A. Bids signed, executed, and dated will be received at the office of the Architect at Fishbeck, Attention: Bill Zaske, 1515 Arboretum Dr SE Grand Rapids, MI 49546 before 2:00 p.m. local time on the September 10, 2021.

1.2 WORK IDENTIFIED IN THE CONTRACT DOCUMENTS

   A. Work of this proposed Contract comprises of the replacement of the indoor turf field in the DeVos Turf Building, including general construction Work. The adjacent track surfaces are not to be disturbed.

   B. Location: DeVos Turf Building at Northwood University, Midland Michigan.

1.3 CONTRACT TIME

   A. Perform the Work in 45 calendar days after installation start date. The bidder may suggest a revision to the Contract Time with a specific adjustment to the Bid Amount. The bidder may suggest a revision to the Contract Time, with explanation. The suggested timeframe above is critical to the Owner's operation.

BID ENCLOSURES/REQUIREMENTS

2.1 BID FORM REQUIREMENTS

   A. Complete all requested information in the Bid Form and Appendices.

2.2 FEES FOR CHANGES IN THE WORK

   A. Include in the Bid Form, the overhead and profit fees on own Work and Work by subcontractors, applicable for Changes in the Work, whether additions to or deductions from the Work on which the Bid Amount is based.

2.3 BID FORM SIGNATURE

   A. The Bid Form shall be signed by the bidder, as follows:

      1. Sole Proprietorship: Signature of sole proprietor in the presence of a witness who will also sign. Insert the words "Sole Proprietor" under the signature.

      2. Corporation: Signature of a duly authorized signing officer(s) in their normal signatures. Insert the officer's capacity in which the signing officer acts, under each signature. Affix the corporate seal. If the bid is signed by officials other than the president and secretary of the company, or the president/secretary/treasurer of the company, a copy of the by-law resolution of their board of directors authorizing them to do so, must also be submitted with the Bid Form in the bid envelope.
2.4 SELECTION AND AWARD OF ALTERNATES

A. Bids will be evaluated on the base bid price. After determination of a successful bidder, consideration will be given to Alternates and bid price adjustments.

OFFER ACCEPTANCE/REJECTION

3.1 DURATION OF OFFER

A. Bids shall remain open to acceptance and shall be irrevocable for a period of thirty (30) days after the bid closing date.

3.2 ACCEPTANCE OF OFFER

A. Owner reserves the right to accept or reject any or all offers.

B. After acceptance by Owner, Architect on behalf of Owner, will issue to the successful bidder, a written Bid Acceptance.

FEDERAL GOVERNMENT AND FEMA STANDARDS AND GUIDELINES

4.1 GENERAL

A. The work performed under this contract may be wholly or partially funded by Federal Government and/or FEMA relief funding, therefore all bidders shall comply with the following Contract Provisions:

COMPLIANCE WITH FEDERAL LAW, REGULATIONS, AND EXECUTIVE ORDERS:
This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives.

NO OBLIGATION BY FEDERAL GOVERNMENT:
The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS OR RELATED ACTS:
The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor’s actions pertaining to this contract.

DHS SEAL, LOGO, AND FLAGS:
The contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA preapproval.

ACCESS TO RECORDS:
The following access to records requirements apply to this contract:
1. The Contractor agrees to provide Northwood University, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.

2. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

3. The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.

4. In compliance with the Disaster Recovery Act of 2018, the (write in name of the nonfederal entity) and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

**SMALL AND MINORITY BUSINESSES, WOMEN’S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS**

Owner encourages participation from small, minority-owned, women-owned, and labor surplus area business. Incorporation of these types of firms into the project team is encouraged. Additionally, prime contracts are required, if subcontracts are to be let, to take the following affirmative steps 1 through 5 of this section.

(1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

(2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;

(3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

(4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

(5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

**Anti-Kickback Clause**

The Contractor hereby agrees to adhere to the mandate dictated by the Copeland "Anti-Kickback" Act which provides that each Contractor or subgrantee shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

**REMEDIES: Applies to all FEMA grant** and cooperative agreement programs.

Contracts for more than the simplified acquisition threshold, currently set at $250,000, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. See 2 C.F.R. Part 200, Appendix II, A.
TERMINATION FOR CAUSE AND CONVENIENCE: Applies to all FEMA grant and cooperative agreement programs.

All contracts exceeding $10,000 must address termination for cause and for convenience by the non-Federal entity, including how it will be affected and the basis for settlement. See 2 C.F.R. Part 200, Appendix II, B.

EQUAL EMPLOYMENT OPPORTUNITY: This requirement applies to all FEMA grant and cooperative agreement programs and exact language below is required.

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

(4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States. The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a State, Territorial, or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

**DEBARMENT AND SUSPENSION:** This requirement applies to all FEMA grant and cooperative agreement programs.

**Suspension and Debarment**

Requirements: These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities. See 2 C.F.R. Part 200, Appendix II, ¶ H; and 2 C.F.R. § 200.213. A contract award must not be made to parties listed in the SAM Exclusions. SAM Exclusions is the list maintained by the General Services Administration that contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. SAM exclusions can be accessed at www.sam.gov. See 2 C.F.R. § 180.530.

In general, an “excluded” party cannot receive a Federal grant award or a contract within the meaning of a “covered transaction,” to include subawards and subcontracts. This includes parties that receive Federal funding indirectly, such as contractors to recipients and subrecipients.

1. This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor’s principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935). V4 2020 Page 254

2. The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

3. This certification is a material representation of fact relied upon by Northwood University. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to Northwood University, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

4. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

**PROCUREMENT OF RECOVERED MATERIALS:** This requirement applies to all contracts awarded by a non-federal entity under FEMA grant and cooperative agreement programs.

Requirements: The requirements of Section 6002 include procuring only items designated in guidelines of the EPA at 40 C.F.R. Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds $10,000 or the value of the quantity acquired by the preceding fiscal year exceeded $10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

1. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
   a. Competitively within a timeframe providing for compliance with the contract performance schedule;
b. Meeting contract performance requirements; or  
c. At a reasonable price.

2. Information about this requirement, along with the list of EPA-designated items, is available at EPA’s Comprehensive Procurement Guidelines web site, [https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program](https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program).

3. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

**CLEAN AIR ACT AND THE FEDERAL WATER POLLUTION CONTROL ACT:** This requirement applies to contracts awarded by a non-Federal entity of amounts exceeding $150,000 under a federal grant.

**Clean Air Act**

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.

2. The contractor agrees to report each violation to the Northwood University and understands and agrees that the Northwood University will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

3. The contractor agrees to include these requirements in each subcontract exceeding $150,000 financed in whole or in part with Federal assistance provided by FEMA.

**Federal Water Pollution Control Act**

1. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

2. The contractor agrees to report each violation to the Northwood University and understands and agrees that the Northwood University will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

3. The contractor agrees to include these requirements in each subcontract exceeding $150,000 financed in whole or in part with Federal assistance provided by FEMA.

**BYRD ANTI-LOBBYING AMENDMENT:** This requirement applies to all FEMA grant and cooperative agreement programs. Contractors that apply or bid for a contract of $100,000 or more under a federal grant must file the required certification. See 2 C.F.R. Part 200, Appendix II, I; 31 U.S.C. § 1352; and 44 C.F.R. Part 18.

Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended) Contractors who apply or bid for an award of $100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with
non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier-to-tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

Required Certification: If applicable, contractors must sign and submit to the non-Federal entity the following certification.

**CONTRACT WORK HOURS AND SAFETY STANDARDS ACT:** This requirement applies to all FEMA contracts awarded by the non-federal entity exceeding $100,000 under grant and cooperative agreement programs that involve the employment of mechanics or laborers. It is applicable to construction work. These requirements do not apply to the purchase of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

**Compliance with the Contract Work Hours and Safety Standards Act.**

1. **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of $26 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

3. **Withholding for unpaid wages and liquidated damages.** The Northwood University shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

4. **Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.
APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, “Disclosure Form to Report Lobbying,” in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure. The Contractor, ______________, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

______________________________
Signature of Contractor’s Authorized Official

______________________________
Name and Title of Contractor’s Authorized Official

______________________________
Date

END OF SECTION
SECTION 00 41 00 - BID FORM

1.1 TO: NORTHWOOD UNIVERSITY (OWNER)
4000 Whiting Dr
Midland, MI 48640

1.2 FOR: PROJECT: NORTHWOOD UNIVERSITY DEVOS TURF BUILDING

1.3 DATE: _________________________ (BIDDER TO ENTER DATE)

1.4 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

A. Bidder's Full Name _____________________________
1. Address _____________________________________
2. City, State, Zip_______________________________

1.5 OFFER

A. Base Bid Field Turf Material and Installation: Having examined all matters referred to in the Instructions to Bidders and the Bid Documents prepared by Fishbeck for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
1. ________________________________________________ dollars ($______________________), in lawful money of the United States of America.

B. Alternate equivalent Field Turf Material Manufacturer and Installation: Having examined all matters referred to in the Instructions to Bidders and the Bid Documents prepared by [Fishbeck] for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
1. ________________________________________________ dollars ($______________________), in lawful money of the United States of America.

2. If providing an alternate field turf manufacturer other than base bid, please provide Alternate Field Turf Manufacturer's product data and references of installations of product in Michigan for review.
                                                                                   _______________________________________________________________________

C. Add Alternate 14mm Shock Pad and installation: Please provide an add alternate bid to install a 14mm Shock Pad (Basis of Design Brock Shock Pad series 14 or equivalent) under Field Turf material. Having examined all matters referred to in the Instructions to Bidders and the Bid Documents prepared by [Fishbeck] for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
1. ________________________________________________ dollars ($______________________), in lawful money of the United States of America.

2. If providing an equivalent shock pad manufacturer other than basis of design, please provide product data and references of installations of product in Michigan for review.
                                                                                   _______________________________________________________________________

D. All applicable federal taxes are included and State of Michigan taxes are included in the Bid Sum.
1.6 ACCEPTANCE

A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.

B. If this bid is accepted by Owner within the time period stated above, we will:
   1. Execute the Agreement within seven days of receipt of Notice of Award.

1.7 CONTRACT TIME

A. If this Bid is accepted, we will (Circle One Below)
   1. Complete the Work in 120 calendar days from Notice to Proceed.
   2. Complete the Work in _______________ days from Notice to Proceed.

1.8 ADDENDA

A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
   1. Addendum # ______ Dated _______________.
   2. Addendum # ______ Dated _______________.

END OF SECTION
SECTION 01 11 00 – SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
   A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 WORK COVERED BY CONTRACT DOCUMENTS
   A. The Work covered by the Contract Documents comprises construction, furnishing and installation of new indoor turf field (including the proper disposal of the existing turf field) and associated construction located at the DeVos Turf Building on Northwood University’s campus in Midland, Michigan.
   B. The Work includes the following major items:
      1. Removal of existing Field Turf and associated fill material, dispose of removed materials in environmentally friendly manner.
      2. Installation of new field turf and floor preparation per the bid documents, including replacement of perimeter wood nailer. Adjacent surfaces are not to be disturbed.

1.3 TYPE OF CONTRACT

1.4 Construct the Work of this Contract by Contractor as Lump Sum (fixed price, stipulated sum).

1.5 CONTRACTOR USE OF PREMISES
   A. Coordinate use of premises under direction of the Owner.
   B. Where the Contract Documents identify certain site elements within the construction limits, such as sidewalks, drives, and streets, that must be kept open for public or the Owner’s use during construction, the Contractor shall be responsible for protection and maintenance of such elements as well.
   C. Except in connection with the safety or protection of persons or the Work or property at the Site or adjacent thereto, all Work at the site shall be restricted to the following hours:
      1. Monday Through Friday (Except Legal Holidays): 7 a.m. to 7 p.m.
      2. Saturday, Sundays or legal holidays with written approval of the Owner.

1.6 OCCUPANCY REQUIREMENTS
   A. Owner Occupancy During Construction:
1. The Owner will occupy or utilize premises during select periods of construction for the removal and installation of the Field Turf. Cooperate with the Owner to minimize conflict and to facilitate the Owner's operations.

2. Access to Abutting Properties: Provide at all times.

3. Access for Emergency Vehicles:
   a. Provide at all times.
   b. Provide at least one clear lane during nonwork periods.

4. Fire Hydrants: Provide access to at all times.

5. Do not block fire access routes.

6. Limit parking for construction vehicles to an area designated by the Owner.

PART 2 - PRODUCTS

2.1 OTHER MATERIALS

A. General: All other materials which are not specified herein and are not indicated on the Drawings, but are required for proper and complete performance of the Work.

B. Procedure:
   1. Select new, first quality material.
   2. Obtain Engineer’s review.
   3. Provide and install.

PART 3 - EXECUTION

Not used.

END OF SECTION 01 11 00
SECTION 32 17 23.28 – INFILLED SYNTHETIC TURF SYSTEM

PART I – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract.

1.2 SUMMARY

A. The work under this section shall consist of furnishing all labor, materials, and equipment necessary to remove the existing field turf material and 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.

1.3 SUBMITTALS

A. Substitutions: Products other than Rootzone 3D3 Blend 52 are acceptable if in compliance with all requirements of these specifications. Submit alternate products with the bid proposal and provide the following:
   1. Provide all specifications, product data, certification and required information for proposed alternate. It is the responsibility of the bidder to prove that the product substitution is equal to or greater than the product specified.
   2. Provide a sample copy of insured warranty and insurance policy information
   3. Provide a sample (8.5" x 11") of the product substitution

B. Product Data: For each type of product indicated.
   1. Submit catalog cuts, material safety data sheets (MSDS), brochures, specifications, preparation and installation instructions and recommendations.
   2. All supplied and installed materials and products will meet or exceed the minimum specifications designated in this section. Sufficient data must be submitted to indicate compliance with the Contract Documents.
   3. Submit instructions for installation.

C. Test Results: The following test results, certified by a licensed independent testing laboratory, shall be submitted as outlined below
   1. With the bid – Mandatory and minimum specifications as shown in Part 2. Bids not meeting the minimum specifications will be rejected.
   2. Upon completion of the installation of the infill (including anti-static applications)—Installer Supervisor must measure and record infill depth using a depth tester for Turf and Tracks with analog or digital readout. At ten separate field locations, three
data points should be recorded by measuring the infill depth in a triangular pattern approximately 12” – 18” apart. At each of the ten testing locations, the three data points should be averaged. Any location that does not measure 1.46” in depth or more must be corrected.

3. At completion of project – Dynamic Cushioning Test according to ASTM F-355-95, Procedure A and Standard F-1936-98 only if the finished product is to be used for American Football.

D. Shop Drawings: Show fabrication and installation details for synthetic turf including, but not limited to:
   1. Proposed locations of all seams in fabric surfacing. Show installation methods and construction.
   2. Field lining and marking - Submit a complete scale and dimensional drawing of inlaid or tufted-in field lines and marking boundaries. Include graphics for end zones and center logo artwork for approval as well.
   3. All submittals shall be provided within 14 days after Notice to Proceed

E. The Turf Manufacturer shall provide the following samples of the artificial turf selected for this project
   1. An 8.5” x 11” minimum sample of the exact synthetic turf and infill system that is specified for this project.
   2. Infill mix in accordance with product specifications

F. Turf Manufacturer Certificates: Certified list of fifty (50) existing installations of a synthetic turf and infill system within the last three years, including Owner Representative and telephone number, attesting compliance with quality assurance information. All must be located within the continental United States.

G. With the bid - Proof that the Turf Manufacturer is a member, in good standing, of the Synthetic Turf Council

H. With the bid – Sample Warranty: Provide a sample pre-paid third party insured warranty with the bid. Policy must be in force at the time of the bid.
   1. The Contractor shall provide a warranty to the Owner that covers defects in materials and installation workmanship of the turf for a period of eight (8) years from the date of substantial completion. The turf provider must verify that their representative has inspected the installation and that the work conforms to the turf provider’s requirements and any written directives. The warranty shall include general wear and damage caused from UV degradation. Other items that must be addressed include the following:
      a. Acceptable uses for the field
      b. Fading
      c. Color match within specifications
      d. Excessive fiber wear
      e. Wrinkling and panel movement
      f. Shock absorbency (Gmax)
g. Seam integrity  
h. Drainage (through the turf only)

2. Exclusions shall include the following:  
   a. Vandalism  
   b. Acts of God

3. The warranty shall be fully third-party insured for the entire 8-Year term and be non-prorated. Warranties that include language which pro-rates benefits shall cause the provider’s bid to be rejected. Prior to final payment for the synthetic turf, the Contractor shall submit to the Owner, this policy guaranteeing the warranty to the Owner. Insurance must reflect the following values:  
   a. $10,000,000 per each insured warranty  
   b. $10,000,000 annual aggregate for all warranties issued during each 12-month period of the 8-Year warranty  
   c. Policies that are backed by a Letter of Credit are not acceptable  
   d. Policy must be issued by an A-rated or greater A.M. Best Rating  
   e. Policies that include self-insurance or self-retention clauses shall not be considered. Policy can not include any form of deductible amount. Policy must be in force at the time of the bid.

I. With the bid – Turf Manufacturer must attest that their submitted products infringe on no known patents.

J. Maintenance and Operations Data: At the completion and acceptance of the project submit 3 complete sets, in manual form, of all the turf provider’s recommended procedures and materials for, but not limited to general maintenance, line/marking installation, small repair procedures, cleaning, etc...

K. Project Record Documents: Record actual locations of seams, drains, and other pertinent information in accordance with the General Requirements

1.4 QUALITY ASSURANCE

A. Turf Manufacturer Qualifications  
   1. Shall be experienced in the installation of synthetic infill grass (including in-house factory extruded RootZone® fiber) for a minimum of five (5) years.
   2. Shall have a minimum of 500 full sized tall fiber infilled type field installations. Field size to be a minimum of 65,000 square feet to qualify. This list is to be provided with the bid.
   3. Shall provide third party certification confirming compliance with referenced standards.
   4. Turf Manufacture must formulate and produce its own fiber master batch.

B. Installer Qualifications:
1. Installation team shall be an established, insured installation firm experienced as a premium turf installer with suitable equipment and supervisory personnel, with a minimum of five years' experience with 15-foot-wide tufted materials.

2. Installation team shall be trained and certified, in writing, by the turf manufacturer, as competent in the installation of the specified material, including seaming and proper installation of the infill mixture.

3. Site superintendent shall have at least 10 installations that are similar to this type of tall fiber synthetic turf system.

C. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified, should be able to withstand full climatic exposure, be resistant to insect infestation, rot, fungus and mildew; to ultra-violet light and heat degradation, and shall have the basic characteristic of flow-through drainage allowing free movement of surface run-off through the turf and directly into prepared granular base and into the field drainage system.

The synthetic turf and components shall be of national reputation. The turf fabric shall be installed by factory-authorized and certified technicians.

1.5 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit synthetic turf work to be performed according to Contractor or Turf Provider's written instructions and warranty requirements.

B. Field Measurements: Indicate measurements on Shop Drawings.

1.6 WARRANTY – Special warranty for American Football: Turf must maintain an ASTM F 355 Gmax of less than 165 for the life of the warranty. This is for the entire warranty period of eight (8) years.

1.7 MAINTENANCE SERVICE – Turf Installation Contractor shall train maintenance staff and/or contracted maintenance staff in the use of the recommended maintenance equipment and provide maintenance guidelines to the facility maintenance staff.

PART TWO – PRODUCTS

2.1 ACCEPTABLE TURF MANUFACTURERS

A. Base Bid turf manufacturer:

   A. AstroTurf Corporation – AstroTurf® Rootzone 3D3 Blend 52
      2680 Abutment Road, SE
      Dalton, GA 30721
      P: 706.277.8873
B. Alternate turf manufacturer is acceptable and must meet and/or be equivalent to all listed requirements, qualifications, and specifications.

2.2 TURF MATERIALS

A. Synthetic Turf System: A synthetic turf system tufting 10,800 denier monofilament fibers made from a singularly extruded combination of stabilized polyethylene and nylon polymers with proper compatibilizers. Fibers shall be tufted into a suitable primary backing and coated with a secondary metered polyurethane adhesive coating. Pile height shall be nominal 2.0”. Fibers shall be tufted to a primary backing and a mechanically applied adhesive secondary backing.

1. The tufted fiber’s face weight shall not weigh less than 52 ounces per square yard. The tufted rows of fiber are to be spaced no more than 1/2” apart. ASTM tests proving the fiber meets these qualifications must be provided with the bid. Turf systems that do not meet this specification will be disqualified.

2. The carpet’s primary backing shall have a minimum weight of 7.0 oz per square yard. The carpet shall then be coated with a secondary backing of polyurethane synthetic coating material with a minimum application rate of 20 ounces per square yard and then perforated for adequate drainage. Carpets that are not perforated for adequate drainage shall not be acceptable.

3. The carpet shall be delivered in 15’ wide rolls. The rolls shall be of sufficient length to go from sideline to sideline. Head seams, other than at sidelines, will not be acceptable.

B. The infilled pile surface shall provide good traction in all types of weather with the use of conventional sneaker type shoes, composition molded sole athletic shoes, and screw-in style football cleats.

C. The pile surface shall be suitable for both temporary and permanent line markings using acrylic paint, as per the turf provider’s recommendations.

D. All adhesives used in bonding the seams shall be resistant to moisture, freeze/thaw, bacteria and fungus attacks, and resistant to ultraviolet radiation. The adhesive shall be made especially for the adhesion of synthetic turf seams and inlaid field markings and graphics.

E. The seam specific adhesive system shall have been utilized on at least 25 full installations. Provide this information with the bid. It shall consist of a factory-made adhesive bed applied to a non-woven fabric seaming tape. The adhesive bed shall be a metered amount suitable for the application. It shall be heat and pressure activated. A special heat application machine and pressure application using weighted rollers is mandatory.

F. Supply field groomer and sweeper or single maintenance apparatus that performs both basic maintenance functions.

G. Perimeter edge details required for the system shall be as detailed and recommended by the turf provider, and as approved by the turf provider.
2.3 TURF FABRIC SURFACE

A. The pile surface shall resemble freshly mown natural grass in appearance, texture and color.
B. The pile surface shall be nominally uniform in length.
C. The pile fiber angle shall be 90 degrees ± 15 degrees, measured from the horizontal after installation of the infill material.
D. The entire system shall be resistant to weather, insects, rot, mildew and fungus growth and will be non-allergic and non-toxic.
E. The synthetic turf system shall have a nominal fiber length of 2.0”.
F. Each roll shall be minimum 15’ wide
G. The entire system shall be constructed for porous standards as specified. Synthetic turf system shall be perforated at 4 – 6” on center. Systems that are not perforated for maximum drainage shall not be acceptable.
H. All markings shall be tufted in-place, inlaid or glued. It is recommended that the maximum amount of markings be factory-prefabricated into the turf system prior to shipment to site. At a minimum all football markings (with the exception of hash marks) shall be factory prefabricated.

2.4 PRODUCT SPECIFICATIONS – TURF

A. Face yarns shall be a proven athletic quality, outdoor stabilized monofilament made from a singularly extruded combination of stabilized polyethylene and nylon polymers with proper compatibilizers.
B. The fabric shall possess the following minimum physical characteristics. ASTM testing shall be provided with the bid and any products not meeting the minimum physical characteristics will be rejected:

<table>
<thead>
<tr>
<th>Test Item</th>
<th>ASTM Method</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Pile Yarn Face Weight</td>
<td>ASTM D 5848</td>
<td>52 oz/square yard</td>
</tr>
<tr>
<td>Average Total Weight</td>
<td>ASTM D 5848</td>
<td>78.5 oz/square yard</td>
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<tr>
<td>Secondary Backing Weight</td>
<td>ASTM D 5848</td>
<td>20 oz/square yard</td>
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<tr>
<td>Primary Backing</td>
<td>ASTM D 5848</td>
<td>7.0 oz/square yard</td>
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<tr>
<td>Average Tuft Length</td>
<td>ASTM D 5823</td>
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<td>Tufting Gauge</td>
<td>ASTM D 5793</td>
<td>1/2” maximum</td>
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<tr>
<td>Tuft Bind</td>
<td>ASTM D 1335</td>
<td>&gt; 8 lbs</td>
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<tr>
<td>Yarn Denier (monofilament fiber)</td>
<td>ASTM D 1577</td>
<td>10,800/6</td>
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<tr>
<td>Fiber Thickness (primary/secondary)</td>
<td>ASTM D 3218</td>
<td>330 microns</td>
</tr>
<tr>
<td>Surface Flammability</td>
<td>ASTM D 2859</td>
<td>8 of 8 PASS</td>
</tr>
<tr>
<td>Permeability</td>
<td>ASTM F 1551</td>
<td>&gt;30</td>
</tr>
<tr>
<td>Melt Point</td>
<td>ASTM D 789</td>
<td>248 degrees Fahrenheit</td>
</tr>
<tr>
<td>Gmax System (American Football)</td>
<td>ASTM F 355</td>
<td>&lt;125 at installation</td>
</tr>
</tbody>
</table>
2.5 Infill Material
   A. Infill composition shall consist of a ballast layer of silica sand topped by ambient SBR rubber performance infill in a ratio by weight of 65% rubber / 35% sand.
   B. Silica sand infill:
      1. Must be clean, sub-angular silica sand
      2. Must be a 20-40 sieve size.
   C. SBR infill:
      1. Must be ambient SBR Rubber
      2. Must be a 10-20 sieve size.
   D. Immediately after infill layers are installed, infill depth must be measured per testing protocol detailed in Section 1.3 C. 2 above to ensure that infill layer is at least 1.46” deep.

PART 3 - EXECUTION

3.1 EXAMINATION
   A. Prior to installation of the synthetic turf, examine substrates and conditions, with Installer present, for compliance with requirements for visual installation tolerances. Proceed with installation only after unsatisfactory conditions have been corrected.
   B. Certification of prior work: The synthetic turf manufacturer and / or certified installation contractor shall perform a visual inspection of the field base onto which the synthetic turf system is to be installed and to examine the finished surface for required compaction, and grade tolerances (through string line testing). After any discrepancies between the required materials, application and tolerance requirements noted have been corrected, the synthetic turf installer should submit a written certification of VISUAL acceptance of the base for installation of the synthetic turf system. Any tests other than VISUAL tests (string line, water hose, etc...) shall be the responsibility of the General Contractor, Architect, Engineer, or Sports Field Consultant.
   C. Installation of all materials shall be performed in full compliance with approved project shop drawings. Only factory trained and certified technicians skilled in the installation of athletic caliber synthetic turf systems, working under the direct supervision of the turf manufacturer’s project managers, shall undertake the placement of the turf system. The designated supervisory personnel on the project must be certified, in writing by the turf provider as competent in the installation of these materials, including proper seaming and proper installation of the infill mixture. The turf provider shall certify the installation and warranty compliance.

3.2 PREPARATION
A. Inspect delivered field surface fabric and components immediately prior to installation. Any damaged or defective items shall be rejected. Installed synthetic turf system shall be inspected for, but not limited to, the following:
   1. Uniformity of product and color
   2. Surface wrinkles
   3. Field markings
   4. Field Edge installation
   5. Pile height of each roll shall be measured. Any material(s) that does not meet minimum height and thickness specifications shall be rejected. Pile height shall be measured in its finished positions.

B. Environmental Conditions: Weather conditions are important for the successful installation of the systems. No work under this section will proceed when:
   1. Ambient temperatures are below 45 degrees F.
   2. Material temperatures are below 45 degrees F.
   3. Surfaces are wet or damp
   4. Rain is imminent or falling.
   5. Conditions exist or are imminent, which will be unsuitable to installation requirements of the systems specified herein. Humidity levels will be inside the limits recommended by the adhesive manufacturer to obtain optimal bonding characteristics of the surfaces.

3.3 INSTALLATION OF THE SYNTHETIC TURF

A. The full width rolls shall be laid out across the field. When all of the rolls of the playing surface have been installed, the sideline areas will be installed at right angles to the playing field turf. All seam widths are to be held to a minimum and shall be traverse to the field direction. Seams shall be flat, tight, and permanent with no separation or fraying. All seams shall remain as required for the duration of the warranty period.

B. The perimeter of the field shall be firmly secured to the edge anchors for the life of the warranty and in accordance to project details.

C. Resilient Infill
   1. The sand ballast infill material shall be spot inspected and tested for conformance to sieve specifications.
   2. Sand ballast Infill must be placed in such a way as to minimize fiber entrapment.
   3. The rubber infill must be uniformly applied so as to ensure uniform, predictable surface.
   4. After infill layers are installed, infill depth must be measured to ensure that infill depth is at least 1.46” deep.

3.4 Field Lining and Markings
A. All markings shall be installed in accordance with prior approved project Shop Drawings.
B. Inlays shall conform to the turf manufacturer’s specifications, directions, and recommendations for the best results.
C. Striping layouts shall be accurately measured by the Contractor before installation of inlaid field markings
D. Install inlays only when the surface is completely dry. Adhere all inlays securely into place. Never loose-lay and sew an inlay into place.

3.5 FIELD QUALITY CONTROL—Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
A. Testing Services: Testing and inspecting of completed applications of synthetic turf system shall take place in suggestive states, in areas of extent and using methods that are industry standard. Do not proceed with application of next stages until test results for previously completed applications show compliance.
B. Remove and replace items where test results indicate that it does not comply with specified requirements.

3.6 FINAL ACCEPTANCE
A. Upon final acceptance, the Manufacturer shall submit to the Owner 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 striping.
B. The Manufacturer shall ensure that the turf can be plowed with Manufacturer approved snow removal equipment as detailed in the provided Maintenance Manuals.
C. The finished playing surface shall appear as mowed grass with no irregularities and shall afford excellent traction for conventional athletic shoes of all types. The finished surface shall resist abrasion and cutting from normal use.

3.7 CLEANING
A. Contractor shall provide the labor, supplies and equipment as necessary for final cleaning of surfaces and installed items. All usable remnants of new material shall become the property of the Owner. The Contractor shall keep the area clean throughout the project and clear of debris. Surfaces, recesses, enclosures, etc... shall be cleaned, as necessary, to leave the work area in a clean, immaculate condition ready for immediate occupancy and use by the Owner.

END OF SECTION