ADDENDUM #2 January 24, 2019

This addendum forms a part of the Contract Documents and modifies the original Bid Documents and Project Manual dated January 8, 2019.

Acknowledgement of the addendum is required in the Bid Form.

CLARIFICATIONS:

1. N/A

CHANGES TO PROJECT MANUAL

1. Section 11 6803 Athletic Equipment (Base Bid) – Replace in its entirety with the attached section. Over Kick netting specifications have been added.

2. Section 32 1825 Warning Track – Replace in its entirety with the attached section.
   Modifications – 2.1 Acceptable Materials & 3.4 Warning Track Installation.

CHANGES TO DRAWINGS

1. Sheet PF 1.02 – Replace in its entirety with the attached sheet. (Softball backstop plan note is changed from 4 to 6 to match the detail sheet)

END OF ADDENDUM 2
SECTION 11 6803
ATHLETIC EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following athletic equipment:
   1. Track and Field Equipment
   2. Over Kick Netting, Cabling and Poles.

B. Related Sections include the following:
   1. Concrete for all poured in place concrete.
   2. Resilient Track Surfacing, Synthetic Turf Base Construction, Synthetic Turf Surfacing.

1.3 PERFORMANCE REQUIREMENTS

A. Structural Performance: Design and install all equipment to meet or exceed all applicable governing codes.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, features, and finishes. Include details of anchors, hardware, and fastenings. If applicable, include assembly, disassembly, and storage instructions.

B. Product Certificates: For each type of athletic equipment, signed by product manufacturer.

C. Manufacturer Certificates: Signed by manufacturers certifying that they comply with requirements. Include evidence of manufacturing experience.

D. Qualification Data: For installer and professional engineer.

E. Maintenance Data: For athletic equipment include applicable data in maintenance manuals.

F. Shop Drawings:
   1. Over Kick Nets: Show location and extent of fully assembled backstop netting and cabling with pole locations. Include elevations, sections, and details not shown in Product Data. Show method of field assembly, connections, installation details, mountings and, attachments to other Work, operational clearances, and relationship to adjoining work. General layout to include four (4) posts at 30’ O.C. with 6’ chain link fence at bottom (continuous with field perimeter fence) and 10’ of netting above. Bottom of netting to attach to a bottom cable or top of fence rail.
      a. Guy wires and Reinforcement: Show locations of blocking and reinforcement required for support of athletic equipment.
      b. Design Calculations: Signed and sealed by a qualified professional engineer. Calculate requirements for supporting the backstop netting. Verify capacity of Athletic Equipment
members and connections to support loads and verify loads, point reactions, and locations for attachment of backstop netting and cabling to structure. Include concrete footing/pier design.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer employing workers trained and approved by manufacturer.

B. Source Limitations: Obtain each type of athletic equipment through one source from a single manufacturer.

C. Standards: Provide athletic equipment complying with or exceeding requirements of authorities having jurisdiction.

D. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings."

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions by field measurements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. 8' offset Football Goal Set of Two.
   a. Sportsfield Specialties, Model GP830HS30 with optional access frame, 1-888-975-3343, [www.sportsfieldspecialties.com](http://www.sportsfieldspecialties.com)
   b. Or approved equal

2. Aluminum Pole Vault Box.
   b. Sportsfield Specialties. 1-888-975-3343, [www.sportsfieldspecialties.com](http://www.sportsfieldspecialties.com)
   c. Or approved equal.

3. Backstop Netting Equipment:
   a. Empire Netting
   b. West Coast Netting, Inc.
   c. Douglas Industries, Inc.
   d. Sportsfield Specialties
   e. Or approved Equivalent

2.2 NETTING MATERIALS, GENERAL

A. Steel Poles: Provide steel poles that
1. **Cold-Formed Steel Posts**: ASTM A 36, Grade B, hot dip galvanized unless another grade is required by structural loads, field prepped to receive paint.

2. **Steel Plates, Shapes, and Bars**: ASTM A 36/A 36M, hot-dip galvanized
   a. Include ¼” top cap, lifting ears, bottom cap.
   b. Predrill for installation of hardware.

B. **Cabling**: 1x7 galvanized steel aircraft cable with a breaking strength as follows:
   1. **Main Load Cable**: ½” with tensile strength of 26,900 lbs minimum.
   2. **Bottom Cable**: 3/8” with tensile strength of 15,400 lbs minimum.
   3. **Vertical Cable**: ¼” with tensile strength of 6,650 lbs minimum.
   4. Provide fittings complying with cable manufacturer’s written recommendations for size, number, and method of installation.

C. **Backstop Netting**:
   1. **K 36 treated polyester, minimum.**
   2. 4” square knotted mesh.
   3. **Tensile strength of 250 lbs, minimum.**
   4. **3/8” Rope Binding.**
   5. **7% Solid Wind Load.**

D. **Anchors, Fasteners, Fittings and Hardware**: To be heavy duty galvanized hardware.
   1. Netting to be attached to backstop cable with #9 screen rings attached approximately 6 to 12 inches on center.

**PART 3 - EXECUTION**

3.1 **EXAMINATION**

A. Examine areas, and conditions with Installer and Owner present. Layout all components with installation tolerances, operational clearances, and other conditions affecting performance in field prior to actual installation.

   1. Verify critical dimensions.
   2. Inspect all surfaces and materials in which athletic equipment is to be installed for unsatisfactory conditions.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 **INSTALLATION, GENERAL**

A. General: Comply with manufacturer’s written installation instructions. Complete equipment field assembly, where required.

B. Unless otherwise indicated, install athletic equipment after other finishing operations, including painting, have been completed.

C. **Permanently Placed Athletic Equipment and Components**: Rigid, level, plumb, square, and true; anchored securely to supporting structure; positioned at locations and elevations indicated on Shop Drawings; in proper relation to adjacent construction; and aligned with field layout.

   1. **Finish Grade Elevation**: Coordinate installed heights of equipment with specified finish grades.
Park Hill High School Athletic Complex Renovation
Kansas City, MO

D. Anchoring to In-Place Construction: Use anchors and fasteners where necessary for securing built-in and permanently placed athletic equipment to structural support and for properly transferring load to in-place construction.

3.3 CLEANING AND PROTECTION

A. After completing athletic equipment installation, inspect components. Remove spots, dirt, and debris and touch up damaged shop-applied finishes according to manufacturer’s written instructions.

B. Provide final protection and maintain conditions acceptable to manufacturer and Installer that ensure athletic equipment is without damage or deterioration at time of Substantial Completion.

C. Replace athletic equipment and finishes that cannot be cleaned and repaired, in a manner approved by Architect, before time of Substantial Completion.

END OF SECTION 116803
SECTION 32 1825 – WARNING TRACK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General Provisions, Supplemental General Conditions and Division - 1 Specifications, apply to work of this section.

1.2 SUMMARY

A. This section covers the preparation of the skinned infield areas located in each of the softball fields. The work includes:
   1. Site grading including all necessary stripping, stockpiling, cutting and filling to achieve proposed grading indicated on drawings.
   2. Finish Grading and dragging of finish material.

1.3 SUBMITTALS REQUIRED WITH BID

A. Bidders Qualification Requirements: Each bidder shall provide proof of three (5) or more recent sports field installations which have been in use successfully for three (3) or more years. Bidder shall have grading equipment with cone shaped laser and turf type flotation tires. If this cannot be adequately shown as stated above, the bidder shall submit the following additional information.
   1. Listing of work similar to that required under this contract with phone numbers, client contacts and installation dates. Construction photographs showing operations and equipment used should be submitted and will be returned after Owner / Architect review.
   2. Listing of employees to be used on this project and their experience level.
   3. Listing of equipment proposed to use for construction, including equipment loading in pounds per square inch. (No equipment with tire loading greater than 10 psi will be allowed to work on the field)
   4. This information shall be reviewed by the Architect and Owner for acceptance or rejection of the proposed Bidder.

1.4 PROJECT CONDITIONS

A. Site Information: All utility lines indicated on the drawings are for information only. Contractor is responsible for verifying all utility locations prior to commencing work.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver materials and stockpile on-site. Protect materials from deterioration during delivery, and while stored at site.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MATERIALS:

Warning Track Base
   2" Limestone screenings

Warning Track Surface:
   2" Red Shale
   More's Excavating
   29223 W. 87th South
PART 3 - EXECUTION

3.1 EXAMINATION AND PROTECTION

A. Unanticipated Conditions: Notify the Architect immediately upon finding evidence of previous structures, filled materials which penetrate below designated excavation levels, or other conditions which are not shown or which cannot be reasonably assumed from existing information. Secure the Architect's instruction before proceeding with further work in such areas.

3.2 EARTHWORK EXECUTION

A. General: Remove material of every nature or description encountered in obtaining required lines and grades. Excavate and/or place and compact fill to provide for elevation(s) required by Drawings. Excavation is all considered unclassified and includes excavation to subgrade elevations indicated, regardless of character of materials and obstructions encountered.
1. Conform to elevations and grades shown within a tolerance of plus or minus one-quarter inch in 25 feet in all directions.

3.3 PLACEMENT AND COMPACTION OF SOIL MATERIALS

A. Ground Surface Preparation: Remove vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious materials from ground surface prior to placement of fills.
B. Before compaction of subgrade, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum dry density or relative dry density. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.
C. Failings: If, based on the testing and observation agency reports and observations, compacted subgrade or fills are found to be below specified density, provide additional compaction and testing in accordance with specifications.
D. Moisture Control: Where subgrade soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade or layer of soil material. Apply water in minimum quantity as necessary to prevent free water from appearing on surface during or subsequent to compaction operations.
E. Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to specified density.

3.4 WARNING TRACK INSTALLATION

A. Subgrade Preparation: In areas of cut, excavate to a subgrade elevation that is 4” below proposed finish grade. In areas of fill, use existing infield material to fill in low areas to elevations that are 4” below proposed finish grade. Roll and compact subgrade.
B. Limestone Screenings Installation: Spread material in two 2” lifts of material across entire Infield, roll and compact.
C. Red Razum installation: Spread 2” (settled depth) of Red Razum across entire track, roll and compact. Use drag mat or similar equipment and hand water to break up shale and provide “game ready” playing surface. Fine grade infields per plans to positively shed water while maintaining flat enough slopes to provide a playable surface. Slight adjustments will be allowed to plan grading to accomplish the best possible playing conditions.
D. Grade Verification: Contractor will conduct a walk-through with architect using Contractor’s survey equipment to randomly check grades at the architect’s discretion.

3.5 FIELD LAYOUT INSTALLATION

A. General: Layout of the field regarding all painted lines shall be by the Owner following Substantial Completion.

3.7 DISPOSAL OF EXCESS AND WASTE MATERIALS

A. Remove excess materials from fields, and stockpile in a location on property to be determined by Owner. No off-site hauling or disposal of material is required in this contract.

END OF SECTION
GENERAL NOTES

1. ALL UTILITIES SHOWN ON PLAN ARE BASED ON ABOVE GROUND OBSERVATION AND MAY NOT INCLUDE ALL LINES PRESENT. VSR DESIGN ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY LOCATIONS SHOWN. ALL UTILITIES TO BE FIELD LOCATED PRIOR TO EXCAVATION. CONTACT MISSOURI ONE-CALL, INDIVIDUAL UTILITY COMPANIES, AND OWNER FOR FIELD LOCATES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT.

2. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL CODES HAVING JURISDICTION OVER THE WORK. THE CONTRACTOR SHALL PAY ALL PERMIT FEES AND OTHER ASSOCIATED FEES REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND REQUIREMENTS OF THE CONSTRUCTION SPECIFICATIONS. CLARIFICATION OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY OWNER AND/OR ENGINEER/ARCHITECT.

3. A CAD DISK WILL BE MADE AVAILABLE TO THE CONTRACTOR FOR LAYOUT AND STAKING PURPOSES IF DESIRED, FOR A FEE AS DESIGNATED IN THE CONTRACT SPECIFICATIONS. ALLOW ONE WEEK FOR THE ARCHITECT/ENGINEER TO PROCESS THE DISK. THE ARCHITECT/ENGINEER BELIEVES THE DISK TO BE ACCURATE, HOWEVER THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT THE INFORMATION ON THE DISK CONFORMS TO THE DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWING.

4. PROVIDE AND INSTALL (2) - 4" AND (2)-2" SCH. 40 PVC SLEEVES FOR FUTURE CONTROL WIRE. EXTEND 12" BEYOND EDGE OF PAVEMENT & CAP. INSTALL REBAR FOR FUTURE LOCATIONS.

5. PROVIDE AND INSTALL 10' WIDE GALVANIZED CHAIN LINK DOUBLE GATE.

6. PROVIDE AND INSTALL 5' WIDE GALVANIZED CHAIN LINK SINGLE GATE.

7. PROVIDE AND INSTALL 12LBS OF FESCUE SEED PER 1,000 SF.

8. PROVIDE AND INSTALL (2) - 4" AND (2)-2" SCH. 40 PVC SLEEVES FOR FUTURE CONTROL WIRE. EXTEND 12" BEYOND EDGE OF PAVEMENT & CAP. INSTALL REBAR FOR FUTURE LOCATIONS.

9. PROVIDE AND INSTALL 6-12 MONTH EROSION CONTROL BLANKET, OR HYDROMULCH.

KEYED NOTES

1. PROVIDE AND INSTALL HIGH JUMP EVENT AREA WITH 1/2" POLYURETHANE RESILIENT Track Surfacing.

2. PROVIDE AND INSTALL 4" SCH. 40 PVC PIPE SURFACE FOR FUTURE IRRIGATION METAL RAIL FENCE FOR FUTURE LOCATIONS.

3. PROVIDE AND INSTALL 5' WIDE GALVANIZED CHAIN LINK SINGLE GATE.

4. PROVIDE AND INSTALL 4-WAY GALVANIZED CHAIN LINK SINGLE GATE.

5. PROVIDE AND INSTALL 5' WIDE GALVANIZED CHAIN LINK DOUBLE GATE.

6. PROVIDE AND INSTALL GALVANIZED CHAIN LINK FENCE.

7. PROVIDE AND INSTALL 5' WIDE GALVANIZED CHAIN LINK SINGLE GATE.

8. PROVIDE AND INSTALL 4" SCH. 40 PVC PIPE SURFACE FOR FUTURE IRRIGATION METAL RAIL FENCE FOR FUTURE LOCATIONS.

9. PROVIDE AND INSTALL 6-12 MONTH EROSION CONTROL BLANKET, OR HYDROMULCH.

LEGEND

- SOD SOFTBALL FIELD
- GRASS (1/2" POLYURETHANE RESILIENT Track Surfacing)
- CONCRETE PAVEMENT - LENGTH ONLY