



Oak Ridge Schools

Business Office

Telephone (865)425-9005
Fax: (865)425-9060

October 10, 2024

Addendum 3 to RFP 25-002.1

Please find attached the updated specifications for RFP 25-002.1 from MHM.



ADDENDUM 03

PROJECT: MHM_24023 | Oak Ridge High School Softball Complex
RFP_25-002.1 ORHS Softball Complex

DATE: October 10, 2024

TO: Prospective Bidders

OWNER: Oak Ridge Schools (on behalf of the City of Oak Ridge)
304 New York Avenue
Oak Ridge, TN 37830

ARCHITECT: McCarty Holsaple McCarty, Inc.
550 West Main Street, Suite 300
Knoxville, TN 37902

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated August 5, 2024, as noted below. The items listed below shall supersede the previous information in the previously issued Bidding Documents and shall be incorporated into the entire Work described therein. The Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of three (3) page(s) and the attached documents as listed below.

ATTACHMENTS:

1. Specifications: 00 01 10, 00 41 13, 01 21 00, 01 22 00, 01 23 00, 11 68 33.
2. Drawings Sheets: None.
3. Other Attachments: None.

CHANGES TO PRIOR ADDENDA:

4. None.

CHANGES TO BIDDING REQUIREMENTS:

5. None.

CHANGES TO AGREEMENT:

6. None.

CHANGES TO CONDITIONS OF THE CONTRACT:

7. None.

CHANGES TO SPECIFICATIONS:

8. Section **00 01 10** – Table of Contents: Updated issue date on revised Sections. Refer to attached revised Section.
9. Section **00 41 13** – Bid Form: Revised Alternate 06 and added Unit Prices / Allowances No. 06, 07, and 08. Refer to attached revised Section.
 - a. USE THIS REVISED BID FORM TO SUBMIT YOUR BID.
10. Section **01 21 00** – Allowances: Added Allowances No. 06, 07, and 08. Refer to attached revised Section.
 - a. A REMINDER THAT ALL ALLOWANCES MUST BE INCLUDED IN THE BASE BID AMOUNT.

11. Section **01 22 00** – Unit Prices: Added Unit Prices No. 06, 07, and 08. Refer to attached revised Section.
12. Section **01 23 00** – Alternates: Changed Alternate 06 from Kentucky 31 Fescue Sod to TifTuf Bermuda with Winter Rye Overseeding. Refer to attached revised Section.
13. Section **11 68 33** – Athletic Field Equipment: Added Part 2.3.M for the French drain landscape curbing. Refer to attached revised Section.

CHANGES TO DRAWINGS:

14. Sheet **C502**: Detail 3/C502 – Reduce the width of the fine washed pea gravel at the French drain from 12” to 8” in width.
15. Sheet **C502**: Detail 4/C502 – Move the 18” wide perforated pipe trench out to where it is directly under the sod and 6” of topsoil. The inside edge (infield side) of this trench will align with the transition line between the infield mix and the outfield sod.

QUESTIONS & ANSWERS / CLARIFICATIONS:

16. Sheet **ES101**: We had a question regarding the new electrical panels and transformer on this project. On ES101 the new transformer is noted but no detail is given on what to have quoted nor is there a feeder diagram to show how these panels are being powered. Please advise on how we need to proceed.
 - a. **RESPONSE**: Refer to Sheet E-101 for feeder diagram and Sheet E-201 for panel schedules.
17. We are very concerned about the timeline of this work in the middle of winter. With all the infrastructure that needs to be done adjacent to the field, it seems like there won't be enough time or good weather to get on the field after the completion of the backstop wall and dugouts. These both will need to use the playing field for access for concrete, lifts, etc. We cannot do work to the field while this is happening. Also, typically the infield needs to be complete prior to the install of the outfield. Access is usually an issue when you must cross the outfield to get to the infield and it is much worse in the winter.
 - a. **RESPONSE**: The timeline is based upon the Owner's requirements to complete the scope of the project so that it can be ready for use for the upcoming softball and baseball season. Note that the documents do include provisions for weather delays that can potentially adjust the Substantial Completion dates. Regarding access and the sequencing of construction, this will be up to each of the Bidders to determine the best approach to successfully complete the project within the timeline allotted.
 - b. **RESPONSE**: We have added a Unit Price / Allowance for lime stabilization of subgrades to assist with helping dry out the soils if the need arises. The use of this material will require prior approval from the Owner and be based upon the recommendation of the Owner's Geotechnical Engineer after reviewing the soil conditions in question.
18. Will an alternate of TifTuf Bermuda sod be entertained? It could be overseeded with rye in the winter. This may be less expensive than the spec'd HGT Bluegrass sod. The bluegrass will require much more water than Bermuda and is less heat, drought, and disease resistant in our climate.
 - a. **RESPONSE**: We have changed Alternate No. 06 to TifTuf Bermuda Sod with Winter Rye overseeding. Alternate No. 05 for HGT Bluegrass Sod still applies. Refer to attached revised Section.
19. Can you explain how the exposed French drain with 12” wide pea gravel will work when adjacent to the infield mix washing into it? Also, is there a lip (if so, what is the height difference?) at the interface of the dugout concrete and the infield surface to hold it in and prevent washout onto the concrete?
 - a. **RESPONSE**: Regarding the proximity of the French drain pea gravel to the infield mix, we have added a Unit Price / Allowance for the installation of landscape curbing between the two different materials. The top of the curb will need to be installed so that it is flush and aligns with the top surface of infield mix allowing water to spill over into the French drain pea gravel. Refer to attached revised Sections 01 21 00, 01 22 00, and 11 68 33. Also note that we have reduced the width of the French drain pea gravel from 12” to 8”.
 - b. **RESPONSE**: Regarding the transition from the dugout concrete to the infield mix, the spot elevations on sheet C501 and detail M07/AS103 call for a 1/2" elevation change from the top of the adjacent concrete down to the surface of the pea gravel and infield mix. Also note that the pea gravel will run along the front edge of the dugout holding the infield mix 8” away from the concrete sidewalk.
20. Are there any outfield drains in the scope of work? I see the drain at the infield/outfield interface. Is that supposed to be on the infield side, under the infield mix?

- a. RESPONSE: There are no drains within the outfield area, only the perforated pipe drain that is at the transition from infield to outfield. The outfield is designed to drain outward away from the infield towards the detention pond.
- b. RESPONSE: Regarding the location of the perforated pipe drain running around the perimeter of the infield at the transition to the outfield, it is currently shown in detail 4/C502 to be under the edge of the infield mix. We are moving the perforated pipe to be directly under the edge of the outfield sod at this infield / outfield transition.

END OF ADDENDUM

SECTION 00 01 10 – TABLE OF CONTENTS

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

Section #	Section Name	Issued	Pages
00 00 01	Cover Page	08/05/24	1
00 01 01	Project Title Page	08/05/24	1
00 01 07	Seals Page	08/05/24	1
00 01 10	Table of Contents	10/10/24	3
00 01 15	List of Drawing Sheets	08/05/24	1
00 31 19	Existing Condition Information	08/05/24	1
00 41 13	Bid Form	10/10/24	6
00 41 14	Bid Envelope	08/12/24	1
00 41 15	Bid Envelope Cover	08/05/24	1
RFP	Refer to Owner's Request for Proposal (RFP) document for additional requirements	09/23/24	

DIVISION 01 GENERAL REQUIREMENTS

Section #	Section Name	Issued	Pages
01 10 00	Summary	09/23/24	5
01 21 00	Allowances	10/10/24	3
01 22 00	Unit Prices	10/10/24	4
01 23 00	Alternates	10/10/24	3
01 25 00	Substitution Procedures	08/05/24	3
01 25 33	Substitution Request Form	08/05/24	2
01 26 00	Contract Modification Procedures	08/05/24	2
01 26 10	Weather Delays	08/05/24	3
01 26 20	Weather Delay Report	08/05/24	1
01 29 00	Payment Procedures	08/05/24	4
01 31 00	Project Management and Coordination	08/05/24	6
01 32 00	Construction Progress Documentation	08/05/24	4
01 33 00	Submittal Procedures	08/05/24	7
01 40 00	Quality Requirements	08/05/24	6
01 41 00	Regulatory Requirements	08/12/24	1
01 42 00	References	08/05/24	2
01 45 29	Testing Laboratory Services	08/05/24	3
01 45 33	Code-Required Special Inspections and Procedures	08/05/24	7
01 50 00	Temporary Facilities and Controls	08/05/24	4
01 57 23	Temporary Stormwater Pollution Control	08/05/24	1
01 60 00	Product Requirements	08/05/24	5
01 61 16	Volatile Organic Compound (VOC) Content Restrictions	08/05/24	2
01 71 23	Field Engineering	08/05/24	4
01 73 00	Execution	08/05/24	7
01 74 19	Construction Waste Management and Disposal	08/05/24	4
01 77 00	Closeout Procedures	08/05/24	4
01 78 23	Operation and Maintenance Data	08/05/24	6
01 78 39	Project Record Documents	08/05/24	3
01 79 00	Demonstration and Training	08/05/24	3

DIVISION 02 EXISTING CONDITIONS

Section #	Section Name	Issued	Pages
	Not used		

DIVISION 03 CONCRETE

Section #	Section Name	Issued	Pages
	Refer to Structural Drawings		

DIVISION 04 MASONRY

Section #	Section Name	Issued	Pages
04 00 00	Refer to Structural Drawings		
04 26 13	Masonry Veneer	08/05/24	8

DIVISION 05 METALS

Section #	Section Name	Issued	Pages
05 00 00	Refer to Structural Drawings		

DIVISION 06 WOOD, PLASTICS, AND COMPOSITES

Section #	Section Name	Issued	Pages
06 00 00	Refer to Structural Drawings		

DIVISION 07 THERMAL AND MOISTURE PROTECTION

Section #	Section Name	Issued	Pages
07 11 13	Bituminous Dampproofing	08/05/24	3
07 21 00	Thermal Insulation	08/05/24	5
07 25 00	Weather Barriers	08/05/24	2
07 26 00	Vapor Retarders	08/05/24	2
07 41 13.16	Standing-Seam Metal Roof Panels	08/05/24	7
07 46 46	Fiber-Cement Siding	08/05/24	5
07 62 00	Sheet Metal Flashing and Trim	08/05/24	9
07 92 00	Joint Sealants	08/05/24	6

DIVISION 08 OPENINGS

Section #	Section Name	Issued	Pages
08 11 13	Hollow Metal Doors and Frames	08/05/24	5
08 33 13	Coiling Counter Doors	08/05/24	4
08 51 13	Aluminum Windows	08/05/24	5

DIVISION 09 FINISHES

Section #	Section Name	Issued	Pages
09 91 13	Exterior Painting	08/12/24	6
09 91 23	Interior Painting	08/12/24	5

DIVISION 10 SPECIALTIES

Section #	Section Name	Issued	Pages
10 75 16	Ground-Set Flagpoles	08/05/24	3

DIVISION 11 EQUIPMENT

Section #	Section Name	Issued	Pages
11 68 33	Athletic Field Equipment	10/10/24	7

DIVISION 12 FURNISHINGS

Section #	Section Name	Issued	Pages
	Not Used		

DIVISION 13 SPECIAL CONSTRUCTION

Section #	Section Name	Issued	Pages
	Not Used		

DIVISION 14 CONVEYING EQUIPMENT

Section #	Section Name	Issued	Pages
	Not Used		

DIVISION 21 FIRE SUPPRESSION

Section #	Section Name	Issued	Pages
	Not Used		

DIVISION 22 PLUMBING

Section #	Section Name	Issued	Pages
22 05 00	Common Work Results for Plumbing	08/05/24	5
22 05 05	General-Duty Valves for Domestic Water	08/05/24	3
22 05 10	Hanger and Supports for Plumbing Piping and Equipment	08/05/24	3
22 05 15	Identification for Plumbing Piping and Equipment	08/05/24	2
22 05 20	Plumbing Insulation	08/05/24	4
22 05 25	Domestic Water Piping and Appurtenances	08/05/24	7
22 05 30	Drainage, Waste, Vent Piping, and Appurtenances	08/05/24	7
22 05 40	Electric Domestic Water Heaters	08/05/24	5
22 05 50	Plumbing Fixtures	08/05/24	4

DIVISION 23 HEATING, VENTILATION, AND AIR CONDITIONING

Section #	Section Name	Issued	Pages
23 05 00	Common Work Results for HVAC	08/05/24	7

23 05 10	Basic Materials and Methods	08/05/24	3
23 05 93	Testing, Adjusting, and Balancing for HVAC	08/05/24	3
23 07 00	HVAC Insulation	08/05/24	2
23 23 00	Refrigerant Piping	08/05/24	1
23 81 50	Ductless Split System Heat Pumps	08/05/24	3

DIVISION 26 ELECTRICAL

Section #	Section Name	Issued	Pages
26 05 00	Common Work Results for Electrical Systems	08/05/24	4
26 05 19	Low-Voltage Electrical Power Conductors and Cables	08/05/24	3
26 05 26	Grounding and Bonding for Electrical Systems	08/05/24	5
26 05 29	Hangers and Supports for Electrical Systems	08/05/24	3
26 05 33	Raceways and Boxes for Electrical Systems	08/05/24	11
26 05 43	Underground Ducts and Raceways for Electrical Systems	08/05/24	15
26 05 53	Identification for Electrical Systems	08/05/24	5
26 09 23	Lighting Control Devices	08/05/24	6
26 22 00	Low-Voltage Transformers	08/05/24	5
26 24 16	Panelboards	08/05/24	8
26 27 26	Wiring Devices	08/05/24	7
26 28 13	Fuses	08/05/24	3
26 28 16	Enclosed Switches and Circuit Breakers	08/05/24	4
26 43 13	Surge Protection for Low-Voltage Electrical Power Circuits	08/05/24	5
26 51 19	LED Interior Lighting	08/05/24	8
26 56 00	Exterior Lighting	08/05/24	6
26 56 68	Exterior Athletic Lighting	08/05/24	9

DIVISION 27 COMMUNICATIONS

Section #	Section Name	Issued	Pages
27 05 00	Common Work Results for Communications	08/05/24	4
27 05 28	Pathways for Communication Systems	08/05/24	8

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

Section #	Section Name	Issued	Pages
28 05 00	Common Work Results for Electronic Safety and Security	08/05/24	4

DIVISION 31 EARTHWORK

Section #	Section Name	Issued	Pages
31 11 00	Clearing and Grubbing	08/05/24	1
31 20 00	Earth Moving	08/05/24	8
31 23 33	Trenching and Backfilling	08/05/24	7
31 25 00	Erosion and Sedimentation Controls	08/05/24	6
31 31 16	Termite Control	08/05/24	3

DIVISION 32 EXTERIOR IMPROVEMENTS

Section #	Section Name	Issued	Pages
32 13 13	Concrete Paving	08/05/24	4
32 18 13	Synthetic Grass Surfacing	08/12/24	4
32 18 23	Athletic Surfacing	08/12/24	6
32 31 13	Chain Link Fences and Gates	08/05/24	6
32 92 00	Turf and Grasses	09/23/24	5

DIVISION 33 UTILITIES

Section #	Section Name	Issued	Pages
33 10 00	Water Utilities	08/05/24	3
33 30 00	Sanitary Sewerage	08/05/24	3
33 40 00	Storm Water Utilities	08/05/24	4

DIVISION 34 TRANSPORTATION

Section #	Section Name	Issued	Pages
	Not Used		

END OF SECTION 00 01 10

SECTION 00 41 13 – BID FORM

PROJECT: Oak Ridge High School Softball Complex

This BID is submitted on behalf of _____
(insert the name of "a corporation" or "a partnership" doing business as)
(hereinafter referred to as "BIDDER"), organized and existing under the laws of the State of Tennessee.

This BID is submitted to Oak Ridge Schools on behalf of the City of Oak Ridge (hereinafter referred to as "OWNER").

In compliance with the Advertisement for Bids and Instructions to Bidders, BIDDER hereby proposes to perform all the WORK for the construction of the above referenced project in strict accordance with the Contract Documents, as amended via Addenda, within the time set forth therein, and at the price(s) stated below which include all sales taxes, other applicable taxes, fees, and the Allowances listed in Section 01 21 00.

By submission of this BID, the BIDDER understands and certifies, and in the case of a joint BID each party thereto understands and certifies as to its own organization, the following:

1. The BIDDER having carefully familiarized themselves with the existing and local conditions at the Project Site under which the WORK is to be performed, and have correlated their observations with the requirements of the Contract Documents (Drawings, Specifications, and Addenda) for the above referenced project, this BID has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this BID with any other BIDDER or with any competitor.
2. The BIDDER has received, read, and understand the Contract Documents and that the BID amounts entered below are based on the Contract Documents as specified and amended via Addenda, and are made in strict accordance therewith;
3. The BID will not be withdrawn within the period of sixty (60) calendar days following the BID receipt date and opening thereof;
4. Upon receipt of the Notice of Award for this BID, the BIDDER shall execute an Agreement for the WORK within ten (10) calendar days after such notification;
5. The right is reserved by the OWNER to reject any or all BIDS, for any or no reason, and to waive any informalities in BIDS received;
6. Upon receipt of the Notice to Proceed for this BID, the BIDDER shall plan for a commencement date as indicated in Section 01 10 00 – Summary and proceed with the WORK in a timely fashion to reach Substantial Completion within the allotted time stipulated in the Contract Documents;
7. The Regulatory Requirement documents are included with this BID;
8. All the Lump-Sum and Quantity Allowances listed in Section 01 21 00 including the Contingency Allowance, if applicable, are included in the BASE BID amount entered below and it is understood that these Allowances cannot be used without prior written approval from the OWNER, and that all unused amounts of these Allowances will be credited back to the OWNER via a Change Order at the end of the project;

The BIDDER hereby agrees to furnish, perform, and commence all the WORK under this Agreement on or before a date to be specified in the Notice to Proceed and to fully complete the PROJECT within the amount of time allotted in the Contract Documents. BIDDER further agrees to pay as liquidated damages the sum(s) per calendar day as stipulated in the Contract Documents.

BASE BID (Including ALL Allowances listed in Section 01 21 00):

_____ Dollars
(in words)

(\$ _____), hereinafter referred to as the **BASE BID**.
(in numbers)

ALTERNATE NO. 01:

If this Alternate, for the Work associated with the Athletic Field Lighting is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 01.**
(in numbers)

ALTERNATE NO. 02:

If this Alternate, for the Work associated with the Scorer's Booth / Concessions Mechanical Systems is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 02.**
(in numbers)

ALTERNATE NO. 03:

If this Alternate, for the Work associated with the Batting Cage Artificial Turf is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 03.**
(in numbers)

ALTERNATE NO. 04:

If this Alternate, for the Work associated with the Softball Field Infield Mix and Warning Track is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 04.**
(in numbers)

ALTERNATE NO. 05:

If this Alternate, for the Work associated with the Softball Field HGT Bluegrass Sod is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 05.**
(in numbers)

ALTERNATE NO. 06:

If this Alternate, for the Work associated with the Softball TifTuf Bermuda Sod with Winter Rye Overseeding is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 06.**
(in numbers)

ALTERNATE NO. 07:

If this Alternate, for the Work associated with the Softball Dugouts Length Reduction is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 07**.
(in numbers)

ALTERNATE NO. 08:

If this Alternate, for the Work associated with the Painting is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 08**.
(in numbers)

ALTERNATE NO. 09:

If this Alternate, for the Work associated with the Salvaging / Reusing Existing Infield Mix is accepted, the BASE BID will be modified as follows:

ADD / DEDUCT _____ Dollars
(circle one above) (in words)

(\$ _____) to / from the BASE BID, hereinafter referred to as the **ALTERNATE NO. 09**.
(in numbers)

UNIT PRICE ALLOWANCES:

The undersigned BIDDER proposes the Unit Price Allowances below which are included in the lump sum BASE BID above and are subject to adjustment based on the proposed Unit Prices listed below. The Unit Price Allowances below shall be added to or deducted from the Contract Sum based on the performance and measurement of the individual items of Work and for adjustment of the quantity given in the Unit Price Allowance for the actual measurement of individual items of the Work. All unused portions of Allowances shall be credited back to the Owner. If a calculation discrepancy is present below, the total dollar amount of the Unit Price Allowance divided by the quantity given below shall determine the actual Unit Price for that item.

UNIT PRICE & ALLOWANCE NO. 01: Removal of unsatisfactory soil and replacement with satisfactory soil material.

Quantity of 100 cubic yards x _____ Dollars (\$ _____) per cubic yard
(unit price in words) (unit price in numbers)

equals an Allowance of _____ Dollars (\$ _____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 02: Mass rock excavation and replacement with satisfactory soil material.

Quantity of 100 cubic yards x _____ Dollars (\$ _____) per cubic yard
(unit price in words) (unit price in numbers)

equals an Allowance of _____ Dollars (\$ _____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 03: Trench rock excavation and replacement with satisfactory soil material.

Quantity of 25 cubic yards x _____ Dollars (\$_____) per cubic yard
(unit price in words) (unit price in numbers)
equals an Allowance of _____ Dollars (\$_____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 04: Trench rock excavation and replacement with stone material.

Quantity of 25 cubic yards x _____ Dollars (\$_____) per cubic yard
(unit price in words) (unit price in numbers)
equals an Allowance of _____ Dollars (\$_____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 05: Brick Veneer.

Unit Price of \$600 per thousand x quantity of _____ Brick (_____)
(quantity in words) (quantity in numbers)
equals an Allowance of _____ Dollars (\$_____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 06: Concrete Sidewalk.

Quantity of 200 square feet x _____ Dollars (\$_____) per square feet
(unit price in words) (unit price in numbers)
equals an Allowance of _____ Dollars (\$_____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 07: French Drain Landscape Curbing.

Quantity of 200 linear feet x _____ Dollars (\$_____) per linear foot
(unit price in words) (unit price in numbers)
equals an Allowance of _____ Dollars (\$_____)
(total allowance in words) (total allowance in numbers)

UNIT PRICE & ALLOWANCE NO. 08: Lime Stabilization of Subgrades.

Quantity of 2,000 square yards x _____ Dollars (\$_____) per square yard
(unit price in words) (unit price in numbers)
equals an Allowance of _____ Dollars (\$_____)
(total allowance in words) (total allowance in numbers)

THIS BID IS SUBMITTED BY:

BIDDER: _____
(insert the name of "a corporation" or "a partnership" doing business as)

Authorized Signature: _____ Date: _____

Name: _____ Title: _____

Address: _____
(street & mailing address) (city, state, zip code)

Telephone #: _____ Cell #: _____ Email: _____

Federal Employer Identification Number (EIN): _____

License Number: _____

RECEIPT OF DOCUMENTS:

BIDDER: _____
(insert the name of "a corporation" or "a partnership" doing business as)

Authorized Signature: _____ Date: _____

Name: _____ Title: _____

State of Incorporation: _____

Note: If this BID is submitted by a corporation, this BID shall have the signature of the Officer(s) required by its governing document.

ADDENDA RECEIPT FORM:

PROJECT: Oak Ridge High School Softball Complex

By submission of this Form, the undersigned BIDDER acknowledges that they have received, reviewed, read, and understand each of the Addenda listed below for the above referenced project and further understands that failure to acknowledge the receipt of all Addenda within the list below may result in rejection of their BID.

Number:	Description:	Date Received:
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

BIDDER: _____
(insert the name of "a corporation" or "a partnership" doing business as)

Authorized Signature: _____ Date: _____
Name: _____ Title: _____

END OF SECTION

SECTION 01 21 00 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to the Contractor. If necessary, additional requirements will be issued by Change Order.
 - 2. Use of any allowance shall only be as directed by the Owner and Architect for the Owner's purposes and after a Change Order has been processed and approved by the Owner and Architect that indicate specific amounts to be charged towards each of the applicable allowances. At Project closeout, all unused amounts remaining in all allowances shall be credited back to the Owner by Change Order.

- B. Types of allowances include the following:
 - 1. Unit-cost allowances.
 - 2. Quantity allowances.

- C. Related Requirements:
 - 1. Section 01 22 00 "Unit Prices" for procedures for using unit prices, including adjustment of quantity allowances when applicable.
 - 2. Section 01 26 00 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 3. Section 01 40 00 "Quality Requirements" for procedures governing the use of allowances for field testing by an independent testing agency.

1.3 DEFINITIONS

- A. Allowance: A quantity of work or dollar amount included in the Contract, established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.4 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.5 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

ALLOWANCES

01 21 00 - 1

1.6 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.7 UNIT-COST ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight , and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.
- C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 - 1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.
- D. All unit-cost allowances shall be included in the Contractor's Base Bid on the Bid Form.

1.8 QUANTITY ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight , and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.
- C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 - 1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.
- D. All quantity allowances shall be included in the Contractor's Base Bid on the Bid Form.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

ALLOWANCES

01 21 00 - 2

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 01: Quantity Allowance: Include one hundred (100) cubic yards of unsatisfactory soil excavation and disposal off-site and replacement with satisfactory soil material from off-site.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- B. Allowance No. 02: Quantity Allowance: Include one hundred (100) cubic yards of mass rock removal and replacement with satisfactory soil material from off-site.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- C. Allowance No. 03: Quantity Allowance: Include twenty-five (25) cubic yards of trench rock removal and replacement with satisfactory soil material from off-site.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- D. Allowance No. 04: Quantity Allowance: Include twenty-five (25) cubic yards of trench rock removal and replacement with stone material.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- E. Allowance No. 05: Unit-Cost Allowance: Include the sum of \$600.00 per thousand for brick veneer, as specified in Section 04 26 13 "Masonry Veneer" and as shown on Drawings.
 - 1. Coordinate unit-cost allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- F. Allowance No. 06: Quantity Allowance: Include two hundred (200) square feet of typical concrete sidewalk as specified in Section 32 13 13 and detailed on Sheet C302.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- G. Allowance No. 07: Quantity Allowance: Include two hundred (200) linear feet of French drain landscape curbing.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."
- H. Allowance No. 08: Quantity Allowance: Include two thousand (2,000) square yards of lime stabilization of subgrades.
 - 1. Coordinate quantity allowance adjustment with unit price requirements in Section 01 22 00 "Unit Prices."

END OF SECTION 01 21 00

SECTION 01 22 00 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 1. Section 01 21 00 "Allowances" for procedures for using unit prices to adjust quantity allowances.
 2. Section 01 26 00 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 3. Section 01 40 00 "Quality Requirements" for field testing by an independent testing agency.
 4. Section 01 45 29 "Testing Laboratory Services" for testing and inspecting requirements.
 5. Section 31 20 00 "Earth Moving" for the definition and requirements associated with suitable soils, subgrade, and earth moving.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, and/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. Unit prices shall apply only in the event of additional Work performed pursuant to a Change Order.

1.4 PROCEDURES

- A. Unit prices are considered complete and full compensation and shall include all necessary material, required labor, products, tools, equipment, plant, transportation, fuel, cost for delivery, services and incidentals, excavation, erection, application, proper and legal disposal, installation, insurance, applicable taxes, overhead, profit, and any other costs or expenses in connection with, or incidental to, the performance of the Work to which such unit prices apply.
- B. Measurement:
 1. Contractor shall take all measurement and compute quantities. Measurements and quantities shall be verified by the Owner's Testing and Inspecting agency before and after the Work is complete, and prior to payment.
 2. Contractor shall assist by providing necessary equipment, labor, and survey personnel as required by the Owner's Testing and Inspecting agency.
 3. Perform surveys required to determine quantities, including control surveys to establish measurement reference lines. Notify Architect prior to starting Work.
- C. Payment of Work governed by unit prices shall be made on the basis of the actual measurements and quantities of Work which is incorporated in or made necessary by the Work and verified by the Owner's Testing and Inspecting agency, multiplied by the unit price.
- D. Payment shall not be made for any of the following:
 1. Products wasted or disposed of in a manner that is not acceptable.
 2. Products determined as unacceptable before or after placement.
 3. Products placed beyond the lines and levels of the required Work.
 4. Loading, hauling, removal, and disposal of rejected products.

- E. Owner 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 Owner's expense, by an independent surveyor acceptable to Contractor.
- F. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the Part 3 "Schedule of Unit Prices" Article contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 01: Removal of unsatisfactory soil and replacement with satisfactory soil material.
 - 1. Description: Removal of unsatisfactory soil excavation below subgrade and disposal off-site and replacement with satisfactory soil material as defined in the specifications from off-site, as required, in accordance with Section 31 20 00 "Earth Moving."
 - 2. Include the following in Unit Price:
 - a. Excavation, loading, equipment, fuel, transport, and legal disposal of unsuitable soil material off-site.
 - b. Excavation, loading, equipment, fuel, transport, placement, and compaction of satisfactory soil material from off-site source.
 - c. Overhead and profit.
 - 3. Unit of Measurement: Cubic yard of soil excavated, based on in-place surveys of volume before and after removal.
 - 4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 - 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- B. Unit Price No. 02: Mass rock excavation and replacement with satisfactory soil material.
 - 1. Description: Mass rock excavation below subgrade and disposal off-site and replacement with satisfactory soil material as defined in the specifications from off-site, as required, in accordance with Section 31 20 00 "Earth Moving."
 - 2. Include the following in Unit Price:
 - a. Excavation, loading, equipment, fuel, transport, and legal disposal of rock material off-site.
 - b. Excavation, loading, equipment, fuel, transport, placement, and compaction of satisfactory soil material from off-site source.
 - c. Overhead and profit.
 - 3. Unit of Measurement: Cubic yard of rock excavated, based on in-place surveys of volume before and after removal.
 - 4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 - 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- C. Unit Price No. 03: Trench rock excavation and replacement with satisfactory soil material.
 - 1. Description: Trench rock excavation below subgrade and disposal off-site and replacement with satisfactory soil material as defined in the specifications from off-site, as required, in accordance with Section 31 20 00 "Earth Moving."
 - 2. Include the following in Unit Price:
 - a. Excavation, loading, equipment, fuel, transport, and legal disposal of rock material off-site.
 - b. Excavation, loading, equipment, fuel, transport, placement, and compaction of satisfactory soil material from off-site source.
 - c. Overhead and profit.
 - 3. Unit of Measurement: Cubic yard of rock excavated, based on survey of in-place surveys volume of before and after removal.

UNIT PRICES

01 22 00 - 2

4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- D. Unit Price No. 04: Trench rock excavation and replacement with stone material.
1. Description: Trench rock excavation below subgrade and disposal off-site and replacement with a dense graded aggregate (Type A, Class, A, and Grading D in accordance with Section 903.05 of the Tennessee Department of Transportation specifications).
 2. Include the following in Unit Price:
 - a. Excavation, loading, equipment, fuel, transport, and legal disposal of rock material off-site.
 - b. All costs associated with delivery of stone material from off-site source.
 - c. Loading, transport, placement, and compaction of stone material.
 - d. Overhead and profit.
 3. Unit of Measurement: Cubic yard of rock excavated, based on survey of in-place surveys volume of before and after removal.
 4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- E. Unit Price No. 05: Brick veneer material.
1. Description: Refer to Section 04 26 31 "Masonry Veneer".
 2. Unit Price is provided in Section 01 20 00 "Allowances" and shall include the brick veneer material.
 - a. All other costs for other related and requirement masonry materials, including but not limited to, mortar, masonry accessories, veneer ties, flashing, weeps, etc.), receiving and handling at Project site, equipment, labor, installation, setup, cleaning, overhead and profit, etc. shall be included in the Contractor's Base Bid.
 3. Unit of Measurement: Per thousand of brick veneer units.
 4. Method of Measurement: Contractor shall take-off material quantities from Contract Documents and include 5% additional brick veneer for Owner's attic stock.
 5. Unit-Cost Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- F. Unit Price No. 06: Concrete sidewalk.
1. Description: Prepare substrate and install base stone and typical concrete sidewalk as specified in Section 32 13 13 and detailed on Sheet C302.
 2. Include the following in the unit price:
 - a. Excavation, loading, transport, fuel, substrate preparation and compaction, forming, stone base, reinforcing, and placement and finishing of concrete.
 - b. Overhead and profit.
 3. Unit of Measurement: Square feet of concrete sidewalk.
 4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- G. Unit Price No. 07: French drain landscape curbing.
1. Description: Provide and install rubber landscaping infield curbing along the edge of the French drain pea gravel along the backstop wall and dugout concrete. Refer to Section 11 68 33 "for product information.
 2. Include the following in the unit price:
 - a. Delivery, product handling, layout, compacted crushed stone leveling course, labor, installation, anchors pins, and accessories.
 - b. Overhead and profit.
 3. Unit of Measurement: Linear feet of landscape curbing.

4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."
- H. Unit Price No. 08: Lime stabilization of subgrades.
1. Description: Provide and install Quicklime / hydrated lime (in accordance with ASTM C977-18) for soil stabilization and soil drying.
 2. Include the following in the unit price:
 - a. Quicklime / hydrated lime (in accordance with ASTM C977-18).
 - 1) Lime to Soil Ratio: Provide 5% of lime per weight (or mass) of soil.
 - b. Scarify or partially pulverize the top 12" of soil, labor to spread lime, adding water and mixing (where necessary), compaction of the soil to the specified density (per Owner's Testing and Inspecting engineer's recommendations).
 - c. Overhead and profit.
 3. Unit of Measurement: Square yard of lime placed.
 4. Method of Measurement: Quantities shall be verified by the Owner's Testing and Inspecting agency.
 5. Quantity Allowance: Coordinate unit price with allowance adjustment requirements in Section 01 21 00 "Allowances."

END OF SECTION 01 22 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other Work of the Contract.
- C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 01: Athletic Field Lighting.
 - 1. Base Bid: Contractor to provide and install all electrical and controls connections associated with the Owner-furnished and Owner-installed athletic field lighting and poles. Owner to remove existing athletic lighting and wood poles.
 - 2. Alternate: Contractor to provide and install athletic field lighting and poles, including all scope described in the Base Bid for this Alternate. Owner to remove existing athletic lighting and wood poles.
- B. Alternate No. 02: Scorer's Booth / Concessions Mechanical Systems.
 - 1. Base Bid: Owner to furnish and install all the mechanical systems included in the scope of Work for this Project. Contractor to provide all electrical, controls connections, and rough-in including pipe sleeves in masonry walls for exterior units. Contractor to install all concrete pads for exterior mechanical units.

2. Alternate: Contractor to provide and install all the mechanical systems included in the scope of Work for this Project, including all scope described in the Base Bid for this Alternate.
- C. Alternate No. 03: Batting Cage Artificial Turf.
1. Base Bid: Contractor to install topsoil without grass within the 15'x70' area of the softball batting cage. Owner to furnish and install softball batting cage and ground surface material.
 2. Alternate: Contractor to install perimeter concrete curb with composite nailer, perimeter perforated drain pipe, stone base, and complete artificial turf system within the 15'x70' area of the softball batting cage. Owner to furnish and install softball batting cage.
- D. Alternate No. 04: Softball Field Infield Mix and Warning Track.
1. Base Bid: Owner will furnish and install infield mix and warning track material for softball infield, outfield, and both bullpen areas as indicated on the Drawings. Contractor shall provide, install, and fine grade these areas to subgrade elevation to accommodate the depth of infield mix and warning track material as specified. Contractor shall provide and install infield storm water piping system (French drain and perforated pipe), including filter fabric, stone backfill, and fine washed pea gravel as indicated on the Civil Drawings.
 2. Alternate: Contractor to add to the Base Bid scope providing and installing infield mix and warning track material as specified and indicated on the Drawings.
- E. Alternate No. 05: Softball Field HGT Bluegrass Sod.
1. Base Bid: Owner will furnish and install HGT Bluegrass sod in softball outfield and tarp storage area as indicated on the Civil Drawings. Contractor to provide, install, and fine grade topsoil to subgrade elevation in these areas to accommodate the body depth of sod. Contractor shall also coordinate the installation of the Owner furnished and installed irrigation system with finish grading.
 2. Alternate: Contractor to add to the Base Bid scope providing and installing HGT Bluegrass sod in the softball outfield and tarp storage area as indicated on the Civil Drawings.
- F. Alternate No. 06: Softball TifTuf Bermuda Sod with Winter Rye Overseeding.
1. Base Bid: Owner will furnish and install TifTuf Bermuda sod with Winter Rye overseeding in softball outfield and tarp storage area as indicated on the Civil Drawings. Contractor to provide, install, and fine grade topsoil to subgrade elevation in these areas to accommodate the body depth of sod. Contractor shall also coordinate the installation of the Owner furnished and installed irrigation system with finish grading.
 2. Alternate: Contractor to add to the Base Bid scope providing and installing TifTuf Bermuda sod with Winter Rye overseeding in the softball outfield and tarp storage area as indicated on the Civil Drawings. Note that the Winter Rye overseeding shall be planted and established prior to the final Substantial Completion date.
- G. Alternate No. 07: Softball Dugouts Length Reduction.
1. Base Bid: Both softball dugouts will remain the length as currently indicated on the Drawings.
 2. Alternate: Reduce the length of both softball dugouts by 10'-0" which will remove one column and its foundation in each dugout. The bullpen areas adjacent to each dugout, including their concrete sidewalks, fencing, infield mix, pitchers plates, and home plates will shift 10'-0" towards the dugout to retain their current relationship with the exterior end wall of the dugout. The tarp storage area on the 1st base side will grow by 10'-0" and the double leaf access gate will remain centered on this tarp storage area.
- H. Alternate No. 08: Painting.
1. Base Bid: Owner will furnish and apply all exterior and interior painting as specified. Contractor shall clean and remove all dust and debris from all surfaces scheduled to receive a paint finish.
 2. Alternate: Contractor will furnish and apply all exterior and interior painting as specified. Contractor shall clean and remove all dust and debris from all surfaces scheduled to receive a paint finish.
- I. Alternate No. 09: Salvaging / Reusing Existing Infield Mix.

1. Base Bid: Owner will furnish and install infield mix for softball field and both bullpen areas as indicated on the Drawings. Contractor shall fine grade these areas to subgrade elevation to accommodate the depth of infield mix material as specified. Contractor shall provide and install infield storm water piping system (French drain and perforated pipe), including filter fabric, stone backfill, and fine washed field gravel as indicated on the Civil Drawings.
2. Alternate: Contractor to add to the Base Bid scope removal of existing 3" thick infield mix from existing field, taking care not to remove and mix within any existing subgrade soil material underneath, stockpile infield mix during construction keeping it covered and segregated (i.e. heavy duty plastic or tarps) from surface material it is being stored on, and installing / fine grading existing infield mix on the new softball field to 1/2" below finish grade elevation. Contractor to install 1/2" thick layer of new topdressing material as specified over all areas receiving existing infield mix. All excess infield mix material shall be turned over to the Owner.

END OF SECTION 01 23 00

SECTION 11 68 33 – ATHLETIC FIELD EQUIPMENT

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 SUMMARY

- A. Section Includes:
 - 1. Softball Field Equipment.
 - 2. Field Striping and Graphics.
- B. Related Requirements:
 - 1. Section 31 20 00 "Earth Moving" for rough grading of athletic field areas.
 - 2. Section 32 31 13 "Chain Link Fences and Gates" for athletic field fencing and gates.
 - 3. Section 32 92 00 "Turf and Grasses" for fine grading and lawn work associated with athletic fields.

1.3 DEFINITIONS

- A. NCAA: The National Collegiate Athletic Association.
- B. NFHS: National Federation of State High School Associations.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. If applicable, include assembly, disassembly, and storage instructions for removable equipment.
 - 2. Include model numbers, type of material, finishes, attachments, and details of construction.
- B. Shop Drawings: For athletic field equipment.
 - 1. Include plans, elevations, sections, details, and attachments to other work. Provide layout of installation showing location dimensions for each piece of equipment.
 - 2. Include details of field assembly for removable equipment, connections, installation, mountings, inserts, and attachments to other work.
- C. Submit color samples and warranties as specified.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For athletic field equipment to include in emergency, operation, and maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.

1.8 FIELD CONDITIONS

- A. Field Measurements: Verify position and elevation of athletic field equipment and layout for athletic field.

1.9 COORDINATION

- A. Coordinate installation of athletic field equipment with that of adjacent and related work.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of athletic field equipment that fail in materials or workmanship within specified warranty period.
 1. Warranty Period: Refer to each product specified below.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain athletic field equipment from single source / manufacturer unless noted otherwise below.

2.2 GENERAL REQUIREMENTS

- A. Equipment shall be provided complete as per manufacturer's standard catalog description and specifications for the numbers indicated on the Drawings. Equipment that is to be permanently installed shall be complete and ready for use prior to Substantial Completion.
- B. Materials and finishes shall be non-corrosive in the type and quality of finish noted or as a part of the manufacturer's printed description or specifications.
- C. All athletic field equipment and layouts are to conform to the most current edition of the "Court and Field Diagram Guide", published by the National Federation of State High School Associations.

2.3 SOFTBALL FIELD EQUIPMENT

- A. Basis-of-Design Product: Subject to compliance with requirements, provide equipment listed below based on basis of design listed below, or equal product by one of the following:
 1. Beacon Athletics. www.beaconathletics.com
 2. Douglas Industries, Inc. www.douglas-sports.com
 3. Gill Athletics. www.gillporter.com

4. Jaypro Sports,LLC. www.jayprosports.com
 5. L. A. Steelcraft. www.lasteelcraft.com
 6. Rawlings. www.rawlings.com
 7. SportsEdge. www.sportsedge.com
 8. Or approved equal by Architect.
- B. General: Provide equipment complying with the requirements in the most current edition of the NFHS's "NFHS Baseball Rules Book."
- C. Bases:
1. Basis-of-Design: Rawlings Model No. RW12902010 – Hollywood Impact Bases (Set of 3).
 - a. Bases shall be premium, professional molded rubber construction that compresses upon impact, fortified with a Chevron design on the underside, including 6" stanchions on each. Bases shall be easily removable for storage.
 - 1) Dimensions: 14-3/4" x 14-3/4" x 2-1/4".
 - 2) Stanchion: 6" by 1-1/2" square.
 - 3) Color: White.
 2. Warranty: Five (5) years from the date of Substantial Completion.
- D. Base Anchors:
1. Basis-of-Design: Beacon Athletics CH Base Anchor, Heavy Duty (BSN Sports SKU 1462861) – All steel base anchoring system designed to be set in concrete, 1-1/2" Hollywood style sleeve.
 - a. Foundation: Anchored in concrete footing per the manufacturer's installation instructions.
 2. Warranty: Five (5) years from the date of Substantial Completion.
- E. Base Anchor Plugs:
1. Basis-of-Design: MacGregor Universal Rubber Base Plug (Model BBRPUGS) (Set of 3).
 - 1) Color: Orange.
 2. Warranty: Five (5) years from the date of Substantial Completion.
- F. Home Plate:
1. Basis-of-Design: Rawlings Model No. RW12908170 – Hollywood Bury-All Home Plate
 - a. Heavy duty home plate shall be made of highly quality, non-skid, molded premium rubber with waffled bottom.
 - 1) Dimensions: 20" x 19-3/8" x 1"
 - 2) Color: White with black trim.
 2. Warranty: Five (5) years from the date of Substantial Completion.
- G. Pitcher's Rubber:
1. Basis-of-Design: Rawlings Model No. 12909180 – Hollywood 4-Way Pitcher's Rubber
 - a. The pitchers' rubber shall be made of ultra durable molded rubber, with an interior aluminum tube for professional grade strength.
 - 1) Dimensions: 24" x 6" x 6"
 - 2) Color: White.
 2. Warranty: Five (5) years from the date of Substantial Completion.
- H. Softball Foul Poles:
1. Basis-of-Design: SportsEdge Professional Grade, Model SEBBFP-30 Foul Poles (pair)
 2. Pole Material: 2 piece heavy wall steel pipe.
 - a. Foul pole designed to withstand up to 150 mph wind.
 3. Pole Size: 5" SCH40, 5-9/16" OD.
 4. Pole Height: 30'-0" above playing surface.
 5. Type: Semi-permanent, in-ground sleeve mount with anti-rotation hardware.
 6. Color: Yellow.
 7. Wing Panels: heavy duty 11 gauge steel perforated metal panel.
 - a. Size: (4) 18" x 60" panels totaling 240" height (top aligned with top of pole / bottom at 10'-0" above playing surface).
 - b. Location: Fair side of the poles.

- c. Color: Yellow.
 8. Sleeves: SportsEdge Model FPS-30P Outdoor Ground Sleeve (pair)
 - a. Foundation: Anchored in concrete footing below finished grade per the manufacturer's installation instructions.
 9. Finish: The entire pole and wing panel assembly shall be finished in a durable and tough powder-coated yellow finish over zinc rich primer.
 10. Warranty: Three (3) years from the date of Substantial Completion.
- I. Backstop:
 1. Basis-of-Design: SportsEdge Model No. SEPBS30 – Powerhouse Baseball Premier Backstop Net Systems
 2. Custom size / configuration pole layout and net backstop system, refer to Drawings. Poles capped with lifting rings. Poles integrated into 36" tall masonry wall backstop.
 3. Structural Poles: 8-5/8" outside diameter welded high tensile strength structural steel poles, 0.25" wall thickness with welded cap and integral lifting ring to prevent moisture from entering at the top and to ease in installation process.
 - a. Height: 30'-0" above finished grade level with a minimum of 7'-6" foundation depth embedment.
 - b. Center and Side Pole Spacing: Refer to Drawings.
 - c. Foundation: Anchored in concrete footing per the manufacturer's installation instructions. Top of footing shall be below finished grade and shall slope down away from pole for drainage.
 - d. Coating: Corrosion dipped, rust inhibitive, and finished with Premium STRYK 5388 coating to form a solid coating bonded with the substrate, preventing corrosion.
 - e. Color: Black.
 4. Cable and Tensioning System:
 - a. All hardware including nuts, bolts, washers, etc, shall be hot-dipped galvanized.
 - b. Heavy duty 3/16" galvanized cable with galvanized steel carabiners.
 - c. Galvanized steel carabiners.
 - d. Galvanized eyebolts embedded into top of masonry wall below at 4'-0" on centers (maximum) for bottom cable.
 5. Netting:
 - a. #42 HDPE twisted knotted netting.
 - b. 3.75" Stretch Mesh.
 - c. 1-7/8" Openings. Netting cut and hung on square.
 - d. Full rope border that is hand tied around the entire perimeter.
 - e. Color: Black.
 - f. Yarn: 380 Denier, extruded HDPE fibers.
 - g. Tensile Average: 220# breaking strength.
 - h. Construction: 3 strand, Z twisted into S twist.
 - i. Melting Point: 248 to 266 degrees Fahrenheit.
 6. Accessories: STRYK-5388 touch up coating.
 7. Warranty: Ten (10) years from the date of Substantial Completion.
- J. Fence Topper:
 1. Basis-of-Design: Douglas Poly Cap Fence Topper.
 - a. Topper: Weather treated and UV-protected pre-slit 4-1/2" diameter polyethylene corrugated construction.
 - b. Ties: Secure with heavy duty, UV treated nylon, self-locking type ties every 3'-0" on center. Color of ties to match color of topper.
 - c. Color: Bright Safety Yellow
 2. Fence Topper Installation Tool: Include tools required for installation.
 3. Warranty: Two (2) years from the date of Substantial Completion.
- K. Outfield Distance Markers:
 1. Basis-of-Design: Beacon Athletics – Tuffy Windscreen.

2. VIPPOL Matrix mesh windscreen with edging fully wrapped in VIPOL Matric webbing with end and corners double lock stitched finished. Numbers in CHROMA-BOND imprinting reducing the effects of fading. Attached to fence with heavy duty black durable nylon, self-locking type wire ties.
 - a. Provide three (3) signs per field for foul line and center field distances.
 - b. Construction: 1000 denier x 800 denier Vipol Matrix Mesh (18x14 ends/inch).
 - c. Fabric Weight: 10 oz. per square yard. 78% Shading.
 - d. Tensile Strength: 360 x 320 lbs.
 - e. Sewn Hems: Three-ply hem with ends and corners sewn finished with two rows of lock-stitched thread.
 - f. Thread: High heat bonded polyester with UV inhibitors built into yarn.
 - g. Grommets: #2 brass grommets every 12" on all four sides.
3. Orientation: Vertical.
4. Size: 24" wide x 60" tall numbers.
5. Windscreen Color: As selected from standard colors.
6. Number Color: As selected from standard colors.
7. Warranty: Five (5) years from the date of Substantial Completion.

L. Permanent Field Markers:

1. Basis-of-Design: Jaypro Sports – 12 Piece Pro Line Layout and Marking System.
2. Provide one (1) complete set of twelve (12) field marks, starting tool, and 600' cord.
3. Install for both foul lines and centerline of field.
4. Warranty: One (1) year from the date of Substantial Completion.

M. French Drain Landscape Curbing:

1. Basis-of-Design: SportsEdge – FlexEdge Rubber Landscape Curb, Model # SEFLEXLS.
2. Landscape Curbing shall be manufactured of 100% recycled rubber, and must meet the following criteria as the minimum standard:
 - a. Size: 3.875 inches high x 4.125 inches wide x 96 inches long.
 - b. Exposed Surface: 0.75 inch and an anchoring ledge of 0.875 inch deep.
 - c. Manufactured of 100% recycled rubber.
 - d. Manufactured of 90% post-consumer content.
 - e. Anchoring Holes: Eight (8) equally spaced countersunk holes for insertion of anchoring pins.
 - f. Ends & Holes: Ends shall be a half lap joint with two (2) pre-formed holes at either end for securing adjacent curbs together.
3. Accessories:
 - a. Adhesive: Betaseal Adhesive, 10.5 oz., Part # SEFLEXBST.
 - b. Anchors Pins: 18 inch long galvanized steel anchor pins with welded cap, Part # SEFLEXA18.
 - 1) Drill 1/4 inch diameter holes provided to accept 1/2 inch anchor pins.
 - c. UV Top Coat: 4 Liter, Part # SEFLEXTC.

2.4 FIELD STRIPING AND GRAPHICS

A. Softball Field:

1. Field Lines: Layout field per the latest adopted NFHS requirements as well as what is graphically shown on Drawings. Mark fields using a non-toxic Field Marker / Line Striping Powder.
 - a. Color: Pure White.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for field layout, installation tolerances, accurate locations, and other conditions affecting performance of the Work.
1. Verify critical dimensions.

2. Examine subgrades and footings.

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

3.2 INSTALLATION, GENERAL

A. General: Comply with manufacturer's written installation instructions and competition rules indicated for each type of athletic field equipment. Complete equipment field assembly where required.

B. Unless otherwise indicated, install athletic field equipment after other finishing operations, including grading, painting, are completed.

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

D. Removable Athletic Field Equipment and Components: Assemble in place to verify that equipment and components are complete and in proper working order. Instruct Owner's designated personnel in properly handling, assembling, adjusting, disassembling, transporting, storing, and maintaining units.

E. Permanent Field Markers: Coordinate locations of field markers with Architect / Owner prior to installation.

F. French Drain Landscape Curbing: Install as recommended by the manufacturer, and as indicated on the Drawings. The installing Contractor shall ensure that the crushed stone leveling base is compacted and level to correct elevations.

1. Where installed over French drain stone backfill, install a double layer of filter fabric on backfill stone prior to installing crushed stone leveling base. Turn filter fabric up sides of crushed stone leveling base.

2. Install the landscape curb so that the anchoring ledge is on the French drain side and the full height curb portion with exposed top is up against the infield mix.

3. Miter the corners so that the exposed curb is continuous with no gaps and so that one of the two holes at the end half lap align for anchoring.

G. Turn all extra materials over to Owner.

H. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

I. Remove and replace damaged components that cannot be successfully repaired, as determined by Architect.

3.3 ADJUSTING

A. Adjust the equipment during installation so that they are plumb and level.

B. Adjust removable components of athletic field equipment as required for accurate placement.

3.4 CLEANING

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

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

- C. Remove temporary protective coverings.
- D. Do not use harsh cleaning materials or methods that would damage finish.
- E. Do not remove warning labels and decals.

3.5 PROTECTION

- A. Protect installed equipment to ensure equipment will be without damage or deterioration at time of Substantial Completion.

END OF SECTION 11 68 33