NOTE TO CONSULTANTS: Edit with Track Changes turned on, any text in this section that appears in bold and italics then turn off the bold and italics for the final approved version. This specification section also needs to be edited and modified to reflect the specific design of the site and type of furnishings chosen for your project (Remove this Note).

PART 1 – GENERAL

1.01 Description:

A. For the construction of Baseball, Softball, Football, Soccer or Lacrosse Fields: Provide all equipment, labor, and associated materials necessary to supply and install the following:

1. Soccer Goals
2. Football Goals
3. Lacrosse Goals
4. Bleachers
6. Dugout Benches
7. Home Plate, Bases, Pitcher's Rubber and Anchors

1.02 Related Sections:

Section 03 30 00 - Cast-in-Place Concrete
Section 06 10 53 - Dugout Roofs for Ballfields
Section 31 00 00 - Earthwork
Section 32 11 23.23 - Synthetic Athletic Field Turf Base
Section 32 18 23.39 - Synthetic Athletic Field Turf Surfacing
Section 32 31 13.33 - Chain Link Backstops & Gates
Section 32 91 19.16 - Ballfield Infield Construction

1.03 Quality Assurance:

A. Manufacturer's Instructions: Adhere to manufacturer's instructions for product handling, assembly, installation, and maintenance.

B. Manufacturer's original factory finish must be intact for the installation to be considered satisfactory. On-site touch-up will not be accepted.

C. For Lighting Fixtures, the installer must be a licensed electrical contractor experienced in lighting fixture installations.

1.04 Submittals: For each Product Specified, submit the following for approval prior to delivery:

A. Manufacturer's product data.

B. Manufacturer's installation instructions.

C. Submit Shop Drawings for approval, of all electrical lighting fixtures and associated hardware

PART 2 - PRODUCTS

2.01 General:

A. Comply with SPR Standard Specifications and Manufacturer's recommendations at all times. Where these may be in conflict, the more stringent requirements shall prevail.

B. All products shall be supplied as specified, or approved equal. Refer to Section 01 25 00 for Substitution and Product Option requirements.

2.02 Soccer Goals:

A. Soccer Goals shall be a complete, semi-portable International size soccer goal system, constructed of round powder coated aluminum tubing, suitable for a fixed or permanent installation, with net, ground sleeves and all necessary hardware for a complete, ready-to-use installation. Size shall be 8'H x 24'W x 8'-4" to 9'-0"D, color white and shall be one of the following choices:

1. SCOREMASTER D/Max DM Series, Model DM2400, as manufactured by Scoremaster, Inc., Sidney, B.C.
2. PORTER ELITE II, Model FG477, as manufactured by Porter Goals and distributed by Gill Athletics, Champaign, IL.
3. KWIK GOAL EVOLUTION EVO 2.1, as manufactured by Kwik Goal, Ltd., Quakertown, PA.
4. Or, approved equal.

2.03 Football Goals:

A. Football Goal Posts shall be standard High School size, powder coated metal, with all necessary hardware and fittings for complete installation. They shall be gooseneck style main upright posts with 5-1/2" to 5-9/16" O.D. schedule 40 steel tubing with 72" offset, and 48" direct bury ground sleeves for removable and adjustable installation. Uprights shall be aluminum, 3-1/2" to 5-1/2" O.D., x 23'-4" wide steel tube crossbars, and 2-3/8" to 4" x 20' high aluminum top uprights. Optional ground sleeves and wind streamers shall be included and the standard color shall be yellow. Include goal post safety pads, color optional. Products shall include a minimum 5-Year Limited Warranty and shall be one of the following choices:

1. BISON Football Goal Posts, Model #GP1000, as manufactured by Wizard Kicking, www.wizardkicking.com.

2. ***ANTHEM Football Goal Posts, Model #AL47-179, with #AL47-181 Ground Sleeves*, as manufactured by Anthem Sports, LLC, *www.anthem-sports.com*.**
3. ***AAE Football Goal Posts, Model ASG-HS*, as manufactured by Aluminum Athletic Equipment, Co., *www.aaesports.com*.**
4. ***Or, approved equal.***

2.04 Lacrosse Goals:

A. Lacrosse Goals shall be 6'Hx6'Wx7'D heavy duty 1.9" diameter orange powder coated steel pipe with 4" flat base bare with welded lacing bar. Provide each goal with a white 4mm net. Provide two sets, four (4) goals for this project. Lacrosse goals shall be one of the following choices:

1. ***KWIK GOAL OFFICIAL LACROSSE GOAL # 2E201, as manufactured by Kwik Goal, Ltd., Quakertown, PA.***
2. ***BRINE PROFESSIONAL LACROSSE GOAL # LG590-NN, as manufactured by Brine, Milford, MA.***
3. ***Or, approved equal.***

2.05 Bleachers:

A. Bleachers shall be one of the following choices:

1. ***Generic Bleachers, shall be Galvanized Steel Frames with Wooden Seat & Walking Board Bleachers, and shall be 15 or 21 foot lengths with 2x12 wooden planks, 3 or 4 rows high bleachers: Steelcraft, Model #BC3-1015W, as manufactured by L.A. Steelcraft, Pasadena, CA.***
2. ***Preferred Options, shall be Aluminum Bleachers (as determined through the design and review processes and as budget allows) and shall be 15 or 21 foot lengths, 3 or 4 rows high, with 2x12 aluminum seat planks. Aluminum bleachers shall be one of the following choices:***
   a. ***PW Athletic, Model #1171-12, as manufactured by Patterson Williams Company, Mesa, AZ.***
   b. ***Kay Park, Model BLRA4A15, as Manufactured by Kay Park Recreation, Janesville, IA.***
   c. ***National Recreation Systems, Model lNB-0415ALR, as manufactured by National Recreation Systems, Inc., Ft. Wayne, IN.***
3. ***Or, approved equals.***

Note: Bleachers that are intended for installation at facilities that will have larger numbers of spectators (50+) may be longer than 15 feet in length, may be higher than 3 or 4 rows high and shall be equipped with safety railings.

2.06 Dugout Benches:

A. Dugout Benches shall be all-steel construction, surface mount benches with diamond-pattern expanded steel seat and back surfaces, with manufacturer's standard "Green" Plastisol coating, and shall be one of the following choices:

1. ***Wabash Valley, Signature Series, Model SG-430(D), as manufactured by Wabash Valley Manufacturing, Inc., Silver Lake, IN.***
2. ***Webcoat, Regal Style, Model B10WBRCP, as manufactured by Webcoat, Inc., McAlester, OK.***
3. ***Or, approved equal***

2.07 Home Plate, Bases, Pitcher's Rubbers and Anchors:

A. Home Plate, Bases, Pitcher's Rubbers and Anchors shall be one of the following choices:

1. ***Home plates shall be Schutt Universal Home Plate #12807300, all rubber, complete with removable stanchions, female ground anchors, and rubber plugs, or approved equal. Provide (1) home plate and (1) additional spare home plate for each field.***
2. ***Bases (break-a-way) shall be Bolco Major League #175-MLB, one piece, all rubber construction with universal stanchion, or approved equal. Base Anchors shall be Bolco #227-FAS, or approved equal. Provide one (1) base and anchor for each base location.***

(or)

2. ***Bases (non-break-a-way) shall be Hollywood Pro Impact/Compression Pro, one piece, all rubber construction with universal stanchion, or approved equal. Base Anchors shall be Hollywood CH Standard-duty (1-1/2"), or approved equal. Provide one (1) base and anchor for each base location.***
3. ***Pitcher's Rubbers shall be 24"x6" Hollywood Removable Rubber, dual stanchion, or approved equal. Provide (1) rubber and (1) additional spare rubber for each field.***
4. ***Ground Anchors and Plugs shall be provided for each base and pitcher's rubber location. Note: Baseball/Softball fields may have multiple layouts on each field as follows:***
   - ***a. Baseball/softball field base layouts may be located at 60', 65', 70' or 90', see Layout Plans.***
   - ***b. Pitcher's rubber layouts may be located at 44', 46', 48' or 60'-6" from home plate, see Layout Plans.***

2.08 Other Furnishing Installation Materials (as required): Other materials required for product installation which may not be supplied or shipped by the manufacturer or otherwise specified for fabricated items may include the following:

A. Concrete for Direct Burial Footings: Concrete for direct burial footings shall conform to the City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction (most recent edition), and shall be Class "C" concrete.

B. Anchoring Devices for Bolt-down, Surface Installations: Where the manufacturer does not provide a specification for anchoring, use only approved stainless steel wedge anchors as follows:

1. Size to the largest standard diameter that the manufacturer's pre-made hole will accommodate without force, typically 5/8".
2. Size to ¾ of the actual depth of concrete to support the installation. Use 2¾" length on standard concrete flatwork.

PART 3 - EXECUTION

3.01 Examination: Verify installation conditions as satisfactory to receive work of this Section. Do not install until unsatisfactory conditions are corrected. Beginning work constitutes acceptance of conditions as satisfactory.

3.02 Direct Burial Installations:

A. All below-grade steel components scheduled for direct burial installation shall be coated in an approved manner prior to installation, typically either factory powder coating or hot-dipped galvanized.

B. Provide footing excavations sized per measured plans provided with the Contract Drawings, manufacturers printed assembly and installation instructions, or as directed by the Engineer, typically 12" diameter x 18" depth for most installations under 100 lbs/footing.

C. Concrete footings shall be neatly and evenly crowned slightly above adjacent finished grade where adjacent finished grade is generally level, matching adjacent finished grade where adjacent finished grade is sloped, or level to the bottom of base aggregate where installation in paved areas is scheduled.

D. Remove all concrete slurry from surrounding surfaces and site furnishings prior to request for inspection.

3.03 Surface Installations:

A. Surface installations shall be made only upon approved concrete surfaces.

B. Use only manufactured approved anchoring devices.

C. Where the manufacturer does not provide a specification for anchoring, use only approved stainless steel wedge anchors as follows;

1. Do not proceed with anchor installation until concrete pavement has had a minimum of 14 days cure time under normal conditions. Where weather conditions are beyond the range of normal, do not proceed with anchor installation without the approval of the Engineer.
2. Size to the largest standard diameter that the manufacturer's pre-made hole will accommodate without force, typically 5/8".

3. Size for embedment of ¾ of the actual depth of concrete to support the installation, in no case less than 2½". Allow for depth of nut plus 3-5 threads protrusion above finished installation.
4. Do not over drill beyond 1/8" the depth necessary to accommodate the anchor.
5. Torque to 80-85% of the anchor manufacturers recommended maximum.
6. Provide at least one anchor for every bolt location hole for any site furnishing.

3.04 Installation of Manufactured Items: Install all equipment in accordance with Specifications, Drawings and manufacturer's directions. Where these may be in conflict, the more stringent requirements govern.

3.05 Installation of Fabricated Items: All fabricated items shall be installed consistent with the measured plans provided in the Contract Drawings utilizing materials

3.06 Cleanup: Remove all metal, wood, and concrete debris, protective wrappings and coverings, and shipping materials from the project site. Remove all residues, repair all stains, scuffs, abrasions, and marks from the finished product prior to requesting inspection. Fully restore all areas of the site that were impacted by the installation activities per SPR Standard Specifications.

END OF SECTION