

SECTION 02542 - SYNTHETIC TURF SAFETY SURFACING

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

1. Provide equipment and materials, and perform work necessary to construct synthetic turf safety surfacing, as indicated on the Drawings and as specified.

1.2 SUMMARY

- A. This section includes synthetic turf for playground areas.

1.3 SUBMITTALS

- A. Shop drawings of synthetic turf seaming and anchoring plan.
- B. Samples:
 - 1. Synthetic Turf - One sample, approximately 7" x 11"
 - 2. List of existing installations, including County representative and telephone number.
- C. Manufacturer's Data: Submit manufacturer's specifications and installation instructions for all products in the synthetic turf surfacing system, including certifications and other data as may be required to show compliance with the Contract Documents.
- D. Substrate Acceptability: Submit a certified statement issued by the manufacturer of the synthetic turf surfacing materials and countersigned by the applicator, attesting that all areas and surfaces designated to receive synthetic turf surfacing have been inspected and found satisfactory for the reception of the Work covered under this Section; and not in conflict with the "Guarantee" requirements.
- E. Statement of Supervision: Upon completion of the Work, submit a written statement signed by the manufacturer stating that the field supervision of the manufacturer's representative was sufficient to ensure proper application of the materials, that the Work was installed in accordance with the Contract Documents, and that the installation is acceptable to the manufacturer.

1.4 QUALITY ASSURANCE

- A. Contractor shall have previously installed at least one (1) similar size and type synthetic turf systems in the last five (5) years.
- B. Firms must have been in business under the same Countyship for at least three years, and shall have been installing similar sports fields for that entire period.
- C. Lay test strip and establish compaction and density rates for each course before beginning permanent work.
- D. Installation of synthetic turf surfacing shall be done only after excavation and construction work which might injure it has been completed. Damage caused during construction shall be repaired before acceptance.

- E. The Contractor shall coordinate the installation of the synthetic turf surface and the surrounding surfaces for optimum interface at all edges.

1.5 GUARANTEE

- A. Provide a written guarantee stating that all work executed under this section will be free from defects of material and workmanship for a period of five (5) years from date of Final Completion, and that any defects will be remedied on written notice at no additional cost to the County. The warranty shall be in writing and shall be signed by the Contractor and synthetic field surfacing materials manufacturer. Guarantee shall include removal and replacement of materials as required to repair synthetic turf surfacing at no cost to the County.
- B. Provide a written guarantee that the product will not fade for ten (10) years.

PART 2 – PRODUCTS

2.1 SYNTHETIC TURF SURFACING.

- A. Basis of design product: Playground Grass ULTRA artificial turf as manufactured by Forever-Lawn 866.992.7876 or XGrass Play artificial turf as manufactured by XGrass 877.881.8477
 1. Type: FLSI-PB PG ULTRA, or approved equal.
 2. Yarn Type: Primary: Polyethylene XP slit film, Secondary: Nylon
 3. Color: Primary: Olive Green, Secondary: Turf Green/Tan Blend
 4. Blade Height: 1-1/2"
 5. Roll width: To be determined. Contractor shall provide options to Project Officer prior to installation.
 6. Protection: 100% Antimicrobial / Antistatic
 7. Backing: 3-layer with geotex laminate
 8. Foam Pad: PolyGreen 2-1/8" thick for 8' fall height, or approved equal.
- B. The finished surface shall appear as mowed grass with no irregularities and shall be as required to meet applicable ASTM, CPSC and ADA standards for the maximum fall height of each play unit. The finished surface shall resist abrasion and cutting from normal use.

2.2 BASE COURSE

- A. Base course shall be as indicated in the drawings.
- B. Compact base course as per manufacturer's recommendation.

2.3 ACCESSORIES

- A. Anchoring devices: Per drawings and manufacturer's written specifications.
- B. Nailer strip: Exterior grade (UC4B) lumber or approved composite, dimensions per plan. Subject to approval of synthetic turf manufacturer and County.

PART 3 – EXECUTION

3.1 ACCEPTABILITY OF AGGREGATE BASE COURSE

- A. Contractor shall examine the aggregate base course to determine its ability to drain and adequately support the synthetic turf safety surfacing system. Evidence of inadequate base

course shall be brought to the immediate attention of the County and remedial action taken. Contractor shall provide shop drawings for approval, prior to installation.

- B. Base course finish grades shall be verified using survey instrument with a tolerance of +/- 1/2" The survey shall be signed by the Contractor and submitted to the County for approval prior to installing the turf.
- C. Start of work of this Section shall not begin until acceptance of base course.

3.2 SYNTHETIC TURF SURFACING

- A. Synthetic turf surfacing shall be installed as per the drawings and in strict accordance with manufacturer's recommendations and instructions.
- B. Seam per manufacturer's written instructions.

3.3 ANCHORING

- A. Secure edges around perimeter, and where noted on drawings, at a maximum of 24" on center, with yard staples or spikes per the manufacturer's written instructions. Tuck down edges of synthetic turf as indicated on the drawings at the perimeters of the synthetic turf surface.
- B. Secure edges of synthetic turf to horizontal hardscape surfaces (footings, concrete paving, etc.) where the synthetic turf is shown to overlap those surfaces per the manufacturer's written instructions.
- C. Secure synthetic turf to nailer strip with staples per the manufacturer's written instructions.

3.4 PROTECTION

- A. Upon completion of the synthetic turf surface, the Contractor shall be responsible for protection of the synthetic turf surface for the remainder of the Contract. Repair any damaged areas prior to acceptance by the County and prior to Final Completion.
- B. Upon completion of the synthetic field surface, the contractor shall provide the County with maintenance training to the satisfaction of the Project Officer.
- C. Upon project completion, provide to the County an operation and maintenance manual, edited for this project.

PART 4 - MEASUREMENT AND PAYMENT

4.1 The quantity of SYNTHETIC TURF to be paid for shall be the number of SQUARE FEET of synthetic turf furnished and installed complete, in accordance with the plans, specifications, to the satisfaction of the Project Officer.

4.2 The price bid shall be a unit price per SQUARE FOOT of synthetic turf (horizontal installations) and shall include the cost of all labor, materials, equipment and incidental expenses required to furnish and install synthetic turf including base materials, nailer boards, and anchors, all in accordance with the plans and specifications, to the satisfaction of the Project Officer.

END OF SECTION 02542