



## Performance Specification

### Section 1—Minimum Experience Requirements

- 1.1. Design Builder shall submit evidence that they have constructed at least 5 similar professional sand based baseball fields within the last 8 years. Evidence shall include the project name, location, description of the installation, start date of the work and completion date, sub-contractors, and the names of the personnel assigned to that project.
- 1.2. Design Builder shall submit evidence that the design team proposed for the project has designed at least 4 similar sand based field systems for professional baseball fields within the last 8 years. Evidence shall include the project name, location, a description of the design, the completion date, a description of any difficulties encountered, and the names of the personnel and sub-consultants assigned to that project.
- 1.3. The Design Builder shall submit evidence that they have worked with the design team in a similar project **in** the past 3 years.
- 1.4. The organizational chart with firm names and resumes of the design team and builder personnel must be submitted with the proposal. Proposed Field Superintendent for this project must possess sand based professional ball field construction experience.

### Section 2—Minimum Performance Design Requirements

- 2.1 The following are minimum performance design requirements for the project:
  - .1 **General** – Provide a professional quality baseball field with drainage and irrigation system that meets MLB Playing Field performance standards as it relates to dimensions, and grade tolerances. All field construction material grades must be consistent with approved plans and proposed depths. Each firm is required to inspect and analyze the current field and conditions prior to submitting the bid. The firm shall be familiar with local weather and climatic conditions. There is no subsurface information available for the site. The bidder shall investigate the conditions as is necessary to determine the conditions for his bid. Installation of the field materials should be installed using forms to reduce contamination of mediums. Following construction and before winter, the forms must be removed.
  - .2 **Demolition** – Minimum removal of existing field to an elevation of 24 inches below existing grade. All excavation shall be performed on an unclassified basis. Contractor is hereby made aware that an existing concrete foundation is believed to exist in the outfield warning track. All materials excavated shall be removed and disposed of off-site in a legal manner. Contractor shall fill any over-excavation



- created by the Demolition to proper compaction levels to support the playing field.
- .3 Field Under drain system** – Provide a Sub base drainage system that will support all surface and internal drainage. The high performance playing field shall be designed to remove rapid rainfall of 1inch in 20 minutes allowing the field to perform safely for the athletes. Provide laterals at a spacing of 15-18ft on center with a perimeter main collector located in the warning track. The main collector shall be extended and tied into the existing storm water system located in the outfield to remove all water from under drain system. Provide the storm water extension and tie in to the existing storm water system. Provide quick drains along tarp dump areas beyond the 95ft arc as well as around perimeter of field next to warning track on spacing's of 50ft. Provide a minimum of 4 inch pea gravel layer under the rootzone material. It should be noted that water will cascade from the seating bowl onto the field and the contractor shall address that condition to not allow puddling on the field or warning track areas. Provide field drainage for warning track surface.
  - .4 Field Grades** – Provide Outfield designed flat. The infield shall be crowned with a maximum slope of 0.5% from the base of the pitcher's mound to the edge of the warning track and all infield clay to a location 20ft behind the 95ft arc.
  - .5 Irrigation System** – System shall meet the requirements of the manufacturer suggested design for baseball fields and provide full coverage of playing field turf grass areas. Provide wireless controller(s) as well as manual clock and all required quick couplers. Provide quick couplers for bullpens and quick couplers surrounding the warning track on 75ft spacing's. Extend power connection at existing clock to new clock. The stadium operator has advised that the water pressure at the existing controller is 72 psi. Provide a booster pump including new electrical power feed from nearest available circuit. Provide materials by Toro, Hunter, Rain bird or approval equal.
  - .6 Sod** – Provide Big Roll Sod with a bluegrass 3 way blend from Tuckahoe Sod Farms, East Coast Sod farms or approved equal. The Head groundskeeper and Owner's Playing Field Consultant ("PFC") will accompany the design builder and select the sod for the project at the sod farm. Sod should have a sandy loam base that is similar to rootzone material.
  - .7 Infield Clay** – Provide a minimum of 5inch depth of infield mix over all baselines and infield areas. Material vendors shall be Diamond Pro, Partac Peat, or approved equal.
  - .8 Warning track** – Design warning track as not to allow excessive puddles to develop on the warning track surface after rain storms and yet be firm and safe for player footing. Provide a 4 inch minimum depth of warning track mix. The warning track should have the same sub base as the playing field and provide materials Diamond Pro, Partac Peat or approved equal. The warning track shall be a minimum of 15' wide in foul territory and 20' wide in the outfield.



- .9 **Root Zone Materials** - Provide a minimum 10 inch root zone material that will bridge with the pea gravel of the drainage system and will support the turf growth of the field through typical agronomic maintenance applications. Laser grade all levels of field to meet design. Provide all testing and technical requirements of the products to be used. Provide sand from Egypt Farms, or approved equal.
- .10 **Pitcher's Mound and Home plate** - Provide Clay Material by Pros-choice, Turface, Diamond Pro, or approved equal.
- .11 **Bases Homeplate and pitching Rubber** - Provide materials for bases plates and rubbers by Jack Corbet or approved equal.
- .12 **Submittal requirements** – Provide design drawings, details, specifications, samples, material certifications, calculations, product data, and normally submitted documents for approval by the PFC.
- .13 **Testing Service** – Provide all testing services on materials to be submitted to the PFC and owner for review and approval prior to installation of products. Provide testing by Norm Hummel, Andy McNitt , CLC Labs or approved equal.

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- .14 **Surveys** - To confirm all field materials meet the depths of each level provide a certified survey for sub grade prior to field installation, a survey of finished gravel layer, and a survey of the root zone and infield grades prior to sod and base installation. Also provide a survey for existing grades and field perimeter for use as a basis in the design documents and a complete set of As built following the completion of the field. All surveys to be provided based on 25ft grids.



- .15 **Attic Stock** - Provide an additional stockpile of 25 tons of warning track mix, 50 tons of topdressing, 25 tons of infield mix and 5 tons of soil conditioner
- .16 **Owners testing** - The owner, at his expense, plans to take samples from the field and arrange for third party testing to perform random soil, turf, gravel and other testing of the materials being used to build the field and will report unsatisfactory results to the Contractor for corrective action. Contractor shall not rely on owner testing.
- .17 **Maintenance** – Once construction is completed, the contractor shall provide winterization of the field including turf protection (snow mold applications) and winterization of the irrigation system. In the spring, the contractor shall charge the irrigation system until it works properly as well making any maintenance required for the field to be playable on April 1st.
- .18 **Warranty** - Contractor shall provide a full labor, material and field performance warranty for a minimum of one year after the date of acceptance, planned for April 1, 2009. A precondition of final acceptance is 3" new root growth.

**END OF SECTION**