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| **DIVISION 2SECTION 02880****PLAY FIELD EQUIPMENT & STRUCTURES** |
| **PART 1.**  | **GENERAL** |
| **1.A.** | **SCOPE** |
| **1.A.1.** | Furnish labor, material and equipment necessary for the provision and installation of the playground equipment, structure or modular unit as shown on the drawings and specified herein.  |
| **1.A.2.** | Work shall include but not limited to the following: excavation, layout, and the provision and installation of playground equipment, structure or modular unit in accordance with the manufacturer’s installation instructions, including all appurtenances and accessories as required for a full and complete installation.   |
| **1.B.** | **SUBMITTALS**  |
| **1.B.1.** | **Product Data:** The Contractor shall submit at a time specified following the Notice to Proceed, complete sets of the material and equipment submittals, including:1. Play equipment manufacturer and manufacturer’s representative’s name(s) and address(es);

  1. Plan view drawings with model numbers, descriptive labels (including component names,) deck heights, and notations of compliance with CPSC, ASTM F1487-01 and ADA;

  1. Color chart;

  1. Copy of manufacturer’s warranty

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| **1.B.2.** | Approval of the submittals shall be the Contractor’s authorization to order the required material and equipment. There will be no deviation from the approved submittals without the written authorization of the Owner’s representative.  |
| **1.C.**  | **PRODUCTS** |
| **1.C.1.** | **PRODUCTS:** The layout shown in the plan view is based upon equipment and measurements from Miracle Recreation Equipment Company. Acceptable manufacturers include Miracle Recreation or equal. Other products may be considered equal if all the parameters, specifications and design intent of the drawings are met. With any questions, contact Miracle Recreation Equipment Company Manufacturer’s Representative Kit Steven – email kit@miracleplaygroup.com; Direct Phone – 510.295.9507.   |
| **1.C.2.** | **Design and Fabrication:** Playground equipment, structure or modular unit submitted for consideration shall be equivalent in design; layout; deck dimensions; deck, slide and climber height; post size; Versalok® clamping/fastening system; GatorGrip® diamond-embossed gripping surfaces; Miratherm® PVC coating specifications; ADA accessibility; appearance, color and construction detail to playground equipment specified in the drawings. Reasonable variations in size/height (no more than +/- 5%) and manufacturer’s standard colors may be allowed at the Owner’s discretion. Color schemes are to match as closely as possible to the originally specified colors. Play value and safety features of components must be equal or superior to specified design as judged by the Owner or Owner’s representative.  |
| **1.C.3.** | **Modification:** Any expense of modification, adjustment or revision required to ensure compliance of furnished equipment to specified equipment and playground design shall be the sole expense and responsibility of the Contractor.  |
| **1.D.** | **PLAYGROUND SAFETY STANDARDS AND QUALITY ASSURANCE** |
| **1.D.1.** | \*\*Standards\*\* All designs shall meet or exceed the Americans with Disabilities Act (ADA) "Final Accessibility Guidelines for Play Areas" regulations as published on October 18, 2000.   |
| **1.E.** | **REFERENCES AND STANDARDS** |
| **1.E.1.** | **ASTM:** American Society for Testing and Materials  |
| **1.E.2.** | **CPSC:** Consumer Product Safety Commission  |
| **1.E.3.** | **IPEMA:** International Playground Equipment Manufacturers Association  |
| **1.E.4.** | **ADA:** Americans with Disabilities Act  |
| **1.E.5.** | **ISO:** International Organization for Standardization  |
| **1.E.6.** | **CPSI:** Certified Playground Safety Inspector  |
| **1.F.** | **WARRANTY/GUARANTEE (Attached)** |
| **1.F.1.** | The equipment manufacturer shall warrant material and workmanship against defects, from the date of manufacturer’s invoice, for the time periods as follows: 1. **LIMITED WARRANTY** **AS LONG AS YOU OWN THE PRODUCT:** Aluminum deck posts, steel deck posts, clamping/fastening (Versalok®), and associated fastening hardware.

  1. **LIMITED FIFTEEN (15) YEAR WARRANTY:** All rigid steel playground components, decks, steps, and weldments, rotationally molded and sheet plastic components, plastic limber, roof panels, and stainless steel slides, except as otherwise specified below.
2. **LIMITED TEN (10) YEAR WARRANTY:** Fabric shade steel frames, and Shadesure™ fabrics (Note Exception: Limited Five (5) Year Warranty on Shadesure™ fabrics in colors Red, Yellow, Electric Purple, Zesty Lime, Cinnamon, and Olive).
3. **LIMITED EIGHT (8) YEAR WARRANTY:**
* Fiberglass signage, accessible swing seats, pre-cast PolyFiberConcrete or precast concrete products.
* Play Terrain Synthetic Turn safety surfacing against deterioration of specified attenuation performance and appearance.
* Shade fabric and components against rot, UV deterioration and defects in materials and workmanship (Note Exception: Limited Three (3) Year Warranty for fabric in shades of Red).

  1. **LIMITED FIVE (5) YEAR WARRANTY:**
* Heavy duty diamond barrier mesh and Kidrox™ Climbing Rocks.
* Mira-Therm™ PVC coating against cracking or peeling.
* Park and Site Amenities (i.e. benches, tables, trash receptacles, etc.).
* Steel core cable nets and rope fittings and connections (Note Exception: Warranty does not cover normal wear and tear such as fraying or facing of cable coating).

  1. **LIMITED THREE (3) YEAR WARRANTY:** Flexible belting, plastic border timbers and accessories, and electronic panel speakers.

  1. **LIMITED ONE (1) YEAR WARRANTY:**
* GFRP (Glass Reinforced Polymer) Products, Slash-Proof Swing Seats, 360-Degree Bucket Swing Seats, and Tuff Net no climbing mesh.
* Pool Slide support structures, stairways, landings and railings.
* All other products and components that are not specifically listed above, including, without limitation, all moving parts such as swing hangers and bearings, swivels, chains, whirls, spring and flexible components, and all high wear items such as trolleys, cables, wheels and bumper stops related to rail and cable ride products.
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|  | Refer to attached WARRANTY for Buyer’s Remedy and Limitations not included herein.    |
| **1.F.2.** | The Contractor shall guarantee installation workmanship for a period of one year from the date of Substantial Completion of the Project. The Contractor shall be responsible for coordinating manufacturer material warranty items with the manufacturer/distributor and for the installation of replacement material(s) at no additional cost to the Owner.  |
| **1.F.3.** | Provide copy of Contractor’s installation warranty on company letterhead.   |
| **PART 2.** | **MATERIALS** |
| **2.A.** | **EQUIPMENT:** See drawings for type, style, configuration, size and height of playground equipment, structure or modular unit to be provided.  |
| **2.B.** | **COLOR SCHEDULES:** See drawings for the color schedules of the various elements of playground equipment, structure or modular unit to be provided.  |
| **2.C.** | **SPECIFICATIONS/COMPONENTS:** |
| **2.C.1.** | Designs and specifications are based upon equipment from Miracle Recreation Equipment Company. Equals will be considered against this standard of quality and design and will be determined at the Owner’s discretion.   |
|  **PART 3.** |  **INSTALLATION** |
| **3.A.** | **INSTALLATION** |
| **3.A.1.** | **Instructions:** Explicit, printed installation instructions, written in English, shall be provided by the manufacturer, which shall include detailed, scaled plan views, elevations, and footing drawings and details when applicable, as well as sequential assembly instructions to assure proper installation of the playground equipment, structure or modular unit.  |
| **3.A.2.** | Equipment must be installed by a Miracle-Certified Installer and must be installed in accordance with the manufacturer’s installation instructions. Installation crew leader must be CPSI-certified. If not installed by a manufacturer-certified installer, the equipment shall be inspected after installation by a CPSI not employed by the installer and signed off by said CPSI before the playground is opened for first use.   |
| **3.A.3.** | **Close Out:** Contractor shall provide the Owner with one copy of complete manufacturer’s installation instructions and maintenance kit if provided. Most manufacturers send at least two sets of installation manuals with each order. Additional sets of installation instructions should be purchased from the manufacturer if originals are lost or damaged. It is the Contractor’s responsibility to secure the installation instructions from the installer. Miracle Recreation mails one complete set of installation instructions directly to the Owner, and the Contractor shall not be required to supply additional sets to the Owner.   |
| **3.A.4.** | **Clean-up:** The site shall be kept clean and free of tools, trash, debris and installation materials on a daily basis. Material may be stored on site during installation with appropriate protective measures and approval by the Owner’s representative.  |