02861 PLAYGROUND EQUIPMENT

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SPECIFIER:
CSI MasterFormat 2004 number: 11 68 13
During Design Phase, the A/E shall coordinate with M-DCPS Department of Safety and Emergency Management, the approval of final layout of selected equipment.

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PART 1 GENERAL

1.1 SUMMARY

A. The work described in this section includes all labor, materials and equipment necessary for the provision of playground equipment shown on the drawings.

B. Related Sections:

1. 02200 - Earthwork.
2. 02790 - Poured-in-Place Rubberized Surface for Playground Areas.
3. 02795 - Synthetic Grass Surfacing for Play Areas.
4. 03301 - Cast-in-Place Concrete.

1.2 REFERENCES – latest edition of the following:

A. Florida Building Code (FBC).

B. American Society of Civil Engineers (ASCE).

C. American with Disabilities Act (ADA).

D. ADA Accessibility Guidelines (ADAAG).

E. American Society for Testing and Materials (ASTM): ASTM F 1487 - Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

F. American Welding Society (AWS).

G. Consumer Products Safety Commission (CPSC): A Handbook for Public Playground Safety.

H. Dade County Public Schools Guidelines for Playground Selection and Installation.

I. International Play Equipment Manufacturers Association (IPEMA).

1.3 SUBMITTALS

A. Submit properly identified manufacturer’s literature and catalog cuts before starting work.

B. Submit shop drawing including manufacturer’s recommended installation procedures for each item or equipment.

C. Submit wind load calculations and connection details for the playground equipment, supports and foundations, all signed and sealed by a Florida Registered Professional Engineer, demonstrating compliance with the FBC and ASCE - 7.

1.4 QUALITY ASSURANCE

A. Comply with the latest standards referenced in this Master Specifications section.

B. All metal elements shall be shop-coated with high grade corrosion resistant primer and a durable UV resistant, weather resistant, chip resistant, polyester powder-coat in manufacturer's available color approved by A/E.

C. Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SS) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

D. Install horizontal ladders, chinning bars, and other upper body equipment at heights according to ASTM F1487 equipment requirements.

1. 2 through 5-year olds: Not more than 60 inches above safety surface to the center of the grasping device.
2. 6 through 12-year olds: Not more than 84 inches above safety surface to the center of the grasping device.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Playground Equipment:

1. GameTime
2. PlayPower, Inc.
3. Landscape Structures, Inc.
4. Play and Park Structures, Inc.
5. BCI Burke Company, LLC
6. Playcraft Systems

2.2 EQUIPMENT

A. Horizontal Ladder:

1. Minimum Length: 10'-0"
2. Minimum Width: 3'-0".
3. Height above finish grade:

    a. Elementary schools: As specified.
    b. Middle and high schools: Between 7'-6" and 8'-0".

4. Provide access rungs on one end only.
5. Top Rungs: Maximum of 11 inches apart.

B. Parallel Bars:

1. Each bar shall be one-piece construction, 1-7/8” nominal (NOM) galvanized pipe.
2. Bar Height 3’-6”.
3. Bar Width: 2’-0”, inside to inside.
4. Minimum Length: 10’-0”

C. Pull-up Bars:

1. 3 horizontal bar 5’-0” long with 1-3/8” (NOM) supported by 4 uprights of 2-3/8” NOM galvanized pipe.
2. Provide horizontal bars to be adjustable between 4’-0” and 8’-0” above finish grade.

D. Triple Balance Beam:

1. 3 beams, each 12’-0” long with a minimum width of 3 inches.
2. Provide ribbed top surface and cap end of each beam.
3. Set beams in a 3-inch overlapping, zigzag pattern in an ascending pattern.

    a. 6 inches from grade level for the first beam.
    b. 9 inches above grade level for the second beam.
    c. 12 inches above grade level for the third beam.

PART 3 EXECUTION

3.1 INSTALLATION

A. Before beginning the work, playground equipment installer shall coordinate with Project A/E and examine the area where the equipment will be installed, to ensure that site conditions, including but not limited to subgrade preparation, area surface/sub-surface drainage, and any other condition required for the proper installation and performance of the playground equipment is acceptable. Proceed with installation of equipment only after unsatisfactory conditions have been corrected.

B. Equipment installer shall coordinate final elevation of playground equipment with finished elevation of any playground safety surfacing that may be designated for the area.

C. Install equipment according to the manufacturer’s instructions and according to the standards referenced in this Master Specifications section.

D. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.

E. Install equipment according to the manufacturer's instructions, applicable codes and standards referenced in this document. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits.

F. Provide handicapped access as indicated on drawings.

G. Apply color matching touch up paint to damaged shop finish.

H. Clean exposed surfaces after installation of site furnishings.

END OF SECTION