**Gill Athletics, Inc.**

**732310 – THOR 10 HAMMER AND DISCUS CAGE**

**SECTION 11 68 33.43**

**HAMMER AND DISCUS CAGE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

A. Hammer and Discus Cage

**1.02 RELATED SECTIONS**

A. Section 31 23 00 Excavation and Fill.

B. Section 03 30 00 Cast-in-Place Concrete.

C. Section 32 18 23 Athletic Surfacing.

D. Section 32 12 16 Asphalt Paving.

**1.03 REFERENCES**

1. NFHS – National Federation of State High School Associations (NFHS)
2. NCAA – National Collegiate Athletic Association (NCAA)
3. IAAF – International Association of Athletics Federations (IAAF)
4. FIFA – International Federation of Association Football
5. FIBA – International Basketball Federation

**1.04 DESIGN REQUIREMENTS**

1. Cage: Locate positions of Cage on the site plan.
2. Verify that site conditions are adequate to support loads imposed by Cage.

**1.05 SUBMITTALS**

1. Comply with Section 01 33 00 – Submittal Procedures.
2. Product Data: Submit manufacturer's product data, including materials, components, fabrication, finish, and installation instructions.
3. Operation and Maintenance Manual: Submit manufacturer's operation and maintenance manual; including operation, maintenance, adjustment, and cleaning instructions; trouble shooting guide; parts list.

**1.06 QUALITY ASSURANCE**

A. Single Source Responsibility: Provide Cage from single manufacturer.

B. Manufacturer's Qualifications: Minimum of 5 consecutive years of experience manufacturing Cage similar to that specified.

C. Installer's Qualifications: Contractor experienced with track & field installation, concrete work, asphalt paving, and track surfacing.

D. Regulatory Requirements: Cage shall conform to latest rules and regulations.

1. National Federation of State High School Associations (NFHS).

2. National Collegiate Athletic Association (NCAA)

3. International Association of Athletics Federations (IAAF)

4. International Federation of Association Football (FIFA)

5. International Basketball Federation (FIBA)

**1.07 DELIVERY, STORAGE, AND HANDLING**

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Keep temporary protective coverings in place.

C. Handling: Protect materials and finish from damage during handling and installation.

**1.08 WARRANTY**

A. Provide 5-year warranty against defects in materials and workmanship, unless otherwise specified.

**PART 2 PRODUCTS**

**2.01 MANUFACTURER**

A. Manufactured and Supplied by:

Gill Athletics, Inc.

601 Mercury Drive

Champaign, Illinois 61822

Toll Free (800) 637-3090

Phone (217) 367-8438

Fax (217) 367-8440

Web Site [www.gillathletics.com](http://www.gillathletics.com)

E-Mail [sales@gillathletics.com](mailto:sales@gillathletics.com)

**2.02 732310 – THOR 10 HAMMER AND DISCUS CAGE**

1. COMPONENTS:
2. Ground Sleeves
   1. Consists of four (4) ground sleeves
   2. Constructed of 8”x3/16” SQ tube
   3. 60” long
3. Net Pole Spigot
   1. Consists of four (4) net poles spigots
   2. Constructed of 6”x1/4” SQ tube
   3. 49” long
   4. Welded hinge brackets
4. Boot Assembly
   1. Constructed of 8”x3/16” SQ tube
   2. 36” long
   3. Welded brackets to hinge up with spigot brackets
5. Rear Pole Bottom Section
   1. Consists of two (2) poles
   2. Constructed of 7 ¼” SQ aluminum extrusion
   3. Approximately 130” long
   4. Welded rope tie off cleats
6. Front Pole Bottom Section
   1. Consists of two (2) poles
   2. Constructed of 7 ¼” SQ aluminum extrusion
   3. Approximately 235” long
   4. Welded rope tie off cleats
7. Rear Pole Top Section
   1. Consists of two (2) poles
   2. Constructed of 7 ¼” SQ aluminum extrusion
   3. Approximately 190” long
   4. Welded sleeve tubes on top of pole
8. Front Pole Top Section
   1. Consists of two (2) poles
   2. Constructed of 7 ¼” SQ aluminum extrusion
   3. Approximately 213” long
   4. Welded sleeve tubes at the top of pole
9. Front Pole Offset Socket
   1. Consists of two (2) offset sockets
   2. Constructed of a series of SQ aluminum tubes welded to a rectangular bolting plate
10. Front Pole Extension Arm
    1. Consists of two (2) extension arms
    2. Constructed of 3” SQ x ¼” aluminum
    3. Approximately 106” Long
    4. Welded spacer plates on one end
11. Front Pole Gate
    1. Consists of two (2) pole gates
    2. Constructed of 4” SQ x ¼” aluminum
    3. Approximately 91” Long
    4. A series of SQ aluminum tubes welded to one end of the pole gate
12. Rear Pole Extension Arm
    1. Consists of four (4) extension arms
    2. Constructed of 3” SQ x ¼” aluminum
    3. Approximately 112” Long
    4. Welded spacer plates on one end
13. Powder Coat options
    1. light blue, royal blue, red, white, orange, yellow, silver, gold, gray, marron, purple, black, navy blue, Kelly green and dark green
14. Net Tension Support Tubes
    1. Consists of five (5)
    2. Constructed of 1.315”x14GA re-metalized tube
    3. 115” long
15. Net Support Tube (for the Tall Panels)
    1. Consists of two (2)
    2. Constructed of 1.315”x14GA re-metalized tube
    3. 114” long
16. Net Support Tube (for the Door Panels)
    1. Consists of two (2)
    2. Constructed of 1.315”x14GA re-metalized tube
    3. Approximately 77” long
17. Net
    1. Constructed of 100% Polyamide (Nylon) type 6.0 yarn solution dyed black
    2. 2”sq mesh (4” stretch mesh)
    3. twisted knotted netting
    4. UV stabilized and bonded
    5. 340.7kg (749.5lb) break strength
    6. rope bound
    7. Main cage net 33’ 4” x 102’ 2” [10.16m x 31.14m].
18. Thor 10 HDWE
    1. Several pieces of hardware, zinc coated and stainless steel
19. Warning Signs
    1. Consists of three (3) warning signs constructed of polyethylene board 10” x 14”
    2. The warning signs will be fastened to the outside of the net, at eye level, facing outward, at the front sides of the discus cage and at the rear of the discus cage

**PART 3 EXECUTION**

**3.01 EXAMINATION**

A. Examine areas to receive Discus Cage. Notify Architect in writing of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

**3.02 INSTALLATION**

A. Install Discus Cage in accordance with manufacturer's instructions at locations indicated on the Drawings.

B. Install equipment plumb, level, straight, square, accurately aligned, correctly located, to proper elevation, and secure.

C. Install equipment using manufacturer's supplied hardware and fasteners.

D. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

1. Remove and replace damaged components that cannot be successfully repaired, as determined by Architect.

**3.03 ADJUSTING**

1. Adjust Discus Cage to plumb and level as appropriate.

**END OF SECTION**