

**IT IS THE VENDOR'S RESPONSIBILITY TO  
CHECK FOR ADDENDUM PRIOR TO SUBMITTING PROPOSALS**

**NOTICE TO BIDDERS  
SPECIFICATION NO. 07-101  
PROJECT NO. NPS 31-00972**

**Federal funds will be used to assist with the development of this project.**  
The City of Lincoln, Nebraska intends to purchase and invites you to submit a sealed bid for:

**RENOVATION  
PIONEERS PARK PLAYGROUND  
SOUTH CODDINGTON & WEST VAN DORN STREETS**

Sealed bids will be received by the City of Lincoln, Nebraska on or before 12:00 noon **Wednesday, April 04, 2007** in the office of the Purchasing Agent, Suite 200, K Street Complex, Southwest Wing, 440 South 8th Street, Lincoln, Nebraska 68508. Bids will be publicly opened and read at the K Street Complex.

Bidders should take caution if U.S. mail or mail delivery services are used for the submission of bids. Mailing should be made in sufficient time for bids to arrive in the Purchasing Division, prior to the time and date specified above. Bids may be downloaded from the City's website at { [HYPERLINK "http://www.lincoln.ne.gov"](http://www.lincoln.ne.gov) }  
Keyword: Bid

**NOTE: Also included in these specifications, but not on this website are plans showing the Playground Site and Playground Layout. Contact purchasing @ 402-441-7416 or { [HYPERLINK "mailto:purchasing@lincoln.ne.gov"](mailto:purchasing@lincoln.ne.gov) } (reference Spec. 07-101 in subject line) with your company name and address and we will send out a set of the plans. They may also be picked up in our office at 440 S. 8<sup>th</sup> St., Ste. 200, Lincoln, NE 68508.**

Prospective bidders must monitor the bid listing for any addendums. Late bids will not be considered. Fax or e-mail bids are not acceptable. Bid response must be in a sealed envelope.

**SPECIFICATION NO. 07-101**  
**BID OPENING TIME: 12:00 NOON**  
**DATE: April 04, 2007**

The undersigned bidder, having full knowledge of the requirements of the City of Lincoln for the below listed items and the contract documents (which include Notice to Bidders, Instructions to Bidders, this Proposal, specifications, Contract, and any and all addenda) and all other conditions of the Proposal, agrees to sell to the City below the listed items for the performance of this Specification, complete in every respect, in strict accordance with the contract documents at and for unit prices listed below.

**Federal funds will be used to assist with development of this project.**

**ADDENDA RECEIPT:** The receipt of addenda to the specifications numbers \_\_\_\_\_ through \_\_\_\_\_ are hereby acknowledged. Failure of any bidder to receive any addendum or any interpretation of the specifications shall not relieve the bidder from obligations specified in the bid request. All addenda shall become part of the final contract document.

**BIDDING SCHEDULE**

<u>Item</u>	<u>Description</u>	<u>Qty.</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1.	Playground Supply & Installation at Pioneers Park	1	Lump Sum	\$ _____
2.	Deduct/Add Cost for Concrete Pavement Construction		Sq. Ft.	\$ _____
3.	Deduct/Add Cost for Rubber Tile Surfacing		Per Tile	\$ _____

**A FIVE PERCENT (5%) BID SECURITY IS REQUIRED AT THE TIME OF SUBMITTAL.**

**IF AWARDED, A PERFORMANCE BOND WILL BE REQUIRED WITH THE RETURNED CONTRACT.**

**AFFIRMATIVE ACTION PROGRAM:** Successful bidders will be required to comply with the provisions of the City's Affirmative Action Policy (Contract Compliance, Sec. 1.16). The Equal Opportunity Officer will determine compliance or non-compliance, upon a complete and substantial review of successful bidder's equal opportunity policies, procedures and practices.

The undersigned signatory for the bidder represents and warrants that he has full and complete authority to submit this proposal to the City, and to enter into a contract if this proposal is accepted.

**NOTE:**  
**RETURN 2 COMPLETE COPIES OF PROPOSAL AND SUPPORTING MATERIAL.**  
**MARK OUTSIDE OF BID ENVELOPE AS FOLLOWS:**

**SEALED BID FOR SPEC. 07-101**  
**ALSO INCLUDE COMPANY NAME AND ADDRESS**

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
BY (Signature)

\_\_\_\_\_  
STREET ADDRESS or P.O. BOX

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
CITY, STATE      ZIP CODE

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
TELEPHONE No.      FAX No.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
E-MAIL ADDRESS

\_\_\_\_\_  
ESTIMATED DELIVERY DAYS (After receipt of individual orders)

\_\_\_\_\_  
TERMS OF PAYMENT

Bids may be inspected in the Purchasing Division offices during normal business hours, **after** tabulation and reviewed by a Purchasing Agent. Bid tabulations can also be viewed on our website at: [lincoln.ne.gov](http://lincoln.ne.gov) Keyword: bid

The Intent to Award will be listed on the website when a recommendation is received from the Department.

**TECHNICAL SPECIFICATIONS  
FOR  
PLAY EQUIPMENT AND STRUCTURES**

**1. SCOPE**

- 1.1 The playground equipment and materials shall be the same as or provide equal play value to the following specifications.
- 1.2 All equipment (including associated fall protection zones) must fit into the footprint shown on drawings.
- 1.3 The bid for this project is a lump sum quote for supply and installation.
- 1.4 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.
- 1.5 Work shall include but not limited to the following: playground site layout, concrete pavement construction, site finish grading 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.

**2. SUBMITTALS**

- 2.1 Submittal Procedures.
  - 2.1.1 Allow sufficient review time so that work will not be delayed as a result of the time required to process submittals.
  - 2.1.2 No extension of contract time will be authorized because of failure to transmit submittals in advance of the work.
  - 2.1.3 Submittals of Shop Drawings and Product Data will not be accepted until stamped by the contractor with a stamp indicating approval.
- 2.2 Product data. The Contractor shall submit within fifteen (15) calendar days after receipt of Notice to Proceed complete sets of the material and equipment submittals, including:
  - 2.2.1 Play equipment manufacturer and manufacturer's representative's name(s) and address(es).
  - 2.2.2 Plan view drawings with model numbers, descriptive labels (including component names), deck heights, and notations of compliance with CPSC, ASTM F1487-01 and ADA.
  - 2.2.3 Detailed component list with model numbers and catalog descriptions.
  - 2.2.4 Color chart.
  - 2.2.5 Written material specifications for all components.
  - 2.2.6 IPEMA certification certificate from the IPEMA web site.

- 2.2.7 Copy of Manufacturer's warranty in certificate format.
- 2.2.8 Copy of manufacturer's ISO 9001 Certification.
- 2.3 Approval of the submittals shall be the Contractor's authorization to order the required material and equipment.
- 2.4 There will be no deviation from the approved submittals without the written authorization of the Owner's representative.

### **3. PRODUCTS**

- 3.1 Products.
- 3.2 The layout shown on the drawings is based upon equipment and measurements from Playworld Systems.
- 3.3 Acceptable manufacturers include Playworld Systems, Miracle Recreation Equipment or approved equivalent.
- 3.4 Other products may be considered equal if all the parameters, specification and design intent of the drawings are met.
  - 3.4.1 A copy of the Play world technical specifications is included for reference.
- 3.5 Design and Fabrication.
- 3.6 Playground equipment, structure or modular unit submitted for consideration shall be equivalent in design, layout, deck size, post size, clamping/fastening system, deck/slide/climber height, ADA accessibility, appearance, color and construction detail to playground equipment specified in the drawings.
- 3.7 Deck heights shall not exceed 6'-0".
- 3.8 Reasonable variations in manufacturer's standard colors may be allowed at the Owner's discretion.
- 3.9 Color schemes are to match as closely as possible to the drawings.
- 3.10 Play value and safety features of components must be equal or superior to specified design as judged by the Owner's representative.
- 3.11 Alternates.
- 3.12 Any alternate products, equipment and/or manufacturer shall be approved by the Owner's Representative prior to opening of sealed bids.
- 3.13 Point of Contact for Owner's Representative for this project shall be Mr. Bill Weddle, Park Planner for Lincoln Parks and Recreation (402-441-8251, [bweddle@lincoln.ne.gov](mailto:bweddle@lincoln.ne.gov)).
- 3.14 Modification.
- 3.15 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.

**4. PLAYGROUND SAFETY STANDARDS AND QUALITY ASSURANCE**

- 4.1 All products shall bear the certification seal of the International play Equipment Manufacturers Association (IPEMA).
- 4.2 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.
- 4.3 All manufacturers must be ISO 9001 certified.
- 4.4 All equipment shall meet or exceed current CPSC and ASTM F1487 Playground
- 4.5 Standards/Guidelines.

**5. REFERENCES AND STANDARDS**

- 5.1 ASTM: American Society for Testing and Materials
- 5.2 CPSC: Consumer Product Safety Commission
- 5.3 IPEMA: International Playground Equipment Manufacturers Association
- 5.4 ADA: Americans with Disabilities Act
- 5.5 ISO: International Organization for Standardization
- 5.6 CPSI: Certified Playground Safety Inspector

**6. WARRANTY/GUARANTEE**

- 6.1 The equipment manufacturer shall warrant material and workmanship against defects, from the date of manufacturer's invoice, for the minimum period of time as follows:
- 6.2 ONE HUNDRED (100) YEAR WARRANTY on aluminum deck posts, steel deck posts, clamping/fastening system and associated fastening hardware against structural failure caused by corrosion or deterioration from exposure to weather, or by defective materials or defective workmanship.
- 6.3 FIFTEEN (15) YEAR WARRANTY on play system steel components including legs, railings, rungs, and rigid climbers against structural failure caused by corrosion, defective materials or defective workmanship.
- 6.4 FIFTEEN (15) YEAR WARRANTY on rotationally-molded plastic components against structural failure caused by defective materials or workmanship.
- 6.5 THREE (3) YEAR WARRANTY on Slash proof Seats and 360 degree Bucket Tot Seats for Swings against structural failure caused by defective materials or defective workmanship.
- 6.6 ONE (1) YEAR WARRANTY on all products not listed above including all moving parts and flexible climbers against structural failure caused by defective materials or defective workmanship.

- 6.7 These warranties may not include fading of colors, damage due to excessive wear and tear, vandalism, or negligence.
- 6.8 These warranties are valid only if products are installed according to manufacturer's installation instructions.
- 6.9 The Contractor shall guarantee installation workmanship for a period of one year from the date of Substantial Completion of the Project.
- 6.10 The Contractor shall be responsible for coordinating manufacturer material warranty items with the manufacturer/distributor and for the installation of replacement materials(s) at no additional cost to the Owner.
- 6.11 Provide copy of Contractor's installation warranty on company letterhead.

**7. EQUIPMENT**

- 7.1 See drawings for type, style, configuration, size and height of playground equipment, structure or modular unit to be provided.

**8. COLOR SCHEDULES**

Item	Component	Color	
<b>Playstructure</b>	Posts	Sand	
	Decks	Brown	
	Roofs	Green Panels with Sand Trim	
	Plastic Slither/Glide Slide	Medallion	
	Plastic Cliff Hanger	Beige	
	All Other Plastic	Green	
	90 degree Loop Ladders	Sand	
	Sliding Poles	Sand	
	Silo Climber	Sand	
	Spiral Climber	Medallion	
	All Other Components	Green	
	<b>Arch Swing</b>		
		Posts and Top Rail	Sand
<b>Tire Swing</b>			
	Posts and Top Rail	Sand	
<b>Duo Seesaw</b>			
	Plastic	Beige	
	Components	Green	
<b>Free Standing Flip Flop</b>			
	Posts	Sand	
	Accents	Green/Sand	
<b>Rubber Safety Surfacing</b>			
	24" X 24" X 2.25" Tiles	Black	
	48" X 8" X 2.25" Ramp Tiles	Black	
	24" X 24" X 2.25" ADA Ramp Tiles with 1 in 12 pitch	Black	

## **9. SPECIFICATIONS**

- 9.1 Designs and specifications are based upon equipment from Playworld Systems.
- 9.2 Equals will be considered against this standard of quality, design and play value and will be determined at the Owner's discretion.
- 9.3 General Play Equipment Specifications.
  - 9.3.1 Vendors must offer both "stand alone" and "modular equipment.
  - 9.3.2 Quality, durability, creative design, variety of options and pricing structure will be considered in the analysis of the manufacturer's offered.
  - 9.3.3 The modular equipment shall be composed of similar elements which can be configured in a variety of ways.
  - 9.3.4 Maintenance, expansion and modification shall be easily accomplished.
  - 9.3.5 A limited five (5) year minimum warranty is required.
- 9.4 Powder Coating
  - 9.4.1 All metal components to be offered with a powder-coating and free of excess weld and splatter.
  - 9.4.2 Parts to be cleaned and sealed with a non-chrome seal for corrosion resistance.
  - 9.4.3 Powder coating to be electrostatically applied (or applied via a durable long-lasting method) and oven cured at 450 degrees.
- 9.5 Decks, Platforms and Bridges
  - 9.5.1 Are to be constructed of perforated steel, minimum twelve (12) gauge, and reinforced as necessary to insure structural integrity.
- 9.6 Posts
  - 9.6.1 Post lengths to vary depending upon intended use.
  - 9.6.2 All posts shall have a "finish grade marker" to identify the bury line required for correct installation.
  - 9.6.3 Post may be offered in a variety of shapes and dimensions including: round, square, 5" diameter and 3" diameter.
  - 9.6.4 Posts to be offered in powder coated O.D. steel tubing with a wall thickness of 0.120" and shall be galvanized after rolling and shall have both the I.D. and cut ends sprayed with a corrosion resistant coating.

## 9.7 End Caps

- 9.7.1 Caps for posts shall be aluminum die casting powder-coated to match post color or approved alternate.
- 9.7.2 All caps are to be factory installed and secured in place with three (3) rivets which are self-sealing.
- 9.7.3 P.V.C. caps may be slipped onto the bottom ends of the post to increase the footing area from 2" square to 20" square and serve as a moisture barrier.

## 9.8 Climber Rung Size

- 9.8.1 Are to be a minimum of ¾" to a maximum of 1 ½" in diameter to allow proper grip for differing age groups.
- 9.8.2 Rails and grips on climbers should be between 1" and 1 ¼" in diameter.

## 9.9 Slides

- 9.9.1 Average incline of sliding surfaces should not exceed thirty (30) degrees.
- 9.9.2 All slides over 4' height must have slides of at least 2 ½" high along the entire length of the sliding surface.
- 9.9.3 Slide access decks 4' high or more should have protective non-climbable barriers at least 38" high.
- 9.9.4 Steps and rungs on slides (and other equipment) should be evenly spaced, with at least 7" and not more than 11" between them.
- 9.9.5 They must be at least 15" wide, horizontal, and corrugated, grooved or covered with a slip-resistant finish that is effective under both wet and dry conditions.
- 9.9.6 Non-metal one-piece slides or slides with lap joints rather than butt joints.

## 9.10 Attachment Hardware

- 9.10.1 There shall be as few types of attaching hardware as possible (i.e., one or two bolt sizes).
- 9.10.2 All hardware shall be of a vandal resistant type.
- 9.10.3 Hex-head type bolts are not recommended; bolts and nuts which use uncommon fastening methods are preferred.
- 9.10.4 All hardware shall meet or exceed the CPSC and ASTM Safety and Performance Guidelines.

- 9.11 Plastics
  - 9.11.1 All plastics shall be high grade nylon, polyethylene or polycarbonate.
  - 9.11.2 They are to be stabilized against ultra-violet light degradation and shall be non- combustible.
- 9.12 Chain and Cable Climbing Apparatus
  - 9.12.1 All chain or cable climbing apparatus shall be covered with a durable plastic coating which is cut resistant.
  - 9.12.2 Joints shall be smooth and free of burrs.
- 9.13 Safety and Performance Guidelines
  - 9.13.1 All playground equipment offered shall meet or exceed the CPSC and ASTM Safety and
- 9.14 Performance Guidelines.
  - 9.14.1 Platted Equipment for On-Concrete Slab Installation
  - 9.14.2 All center modular platform playground equipment shall be platted for installation on concrete 5" slab.
  - 9.14.3 All anchor plates shall be designed to provide safe operation of the play equipment and to resist wind loads, rain, snow, ice, etc.
- 9.15 Synthetic Surfacing
  - 9.15.1 Synthetic surfacing shall be offered in a variety of thicknesses to accommodate a range of applications.
  - 9.15.2 Product offered must accommodate a fall from 3 to 7 feet, and comply with ADA and CPSC guidelines.
  - 9.15.3 Product offered may be available in panels requiring adhesive or mechanical attachment to an underlying prepared surface.
  - 9.15.4 Product to be weather resistant, allowing for proper surface and ground-base drainage.
  - 9.15.5 The Manufacturers standard color selection must be provided upon request.
  - 9.15.6 A minimum of five (5) year limited warranty is required.
- 9.16 Park Benches, Trash Receptacles And Picnic Tables
  - 9.16.1 All park benches, trash receptacles and picnic tables shall be manufactured by Wabash Valley, Contractors shall give pricing on this manufacturer only.

**10. PLAY STRUCTURE COMPONENT LIST**

Ref. No.	Part Number	Description	Qty.
<b>Posts</b>			
1	ZZPM0008GZ	5in OD X 108in Post with (Ground Zero)	2
2	ZZPM0026	5in OD X 132in Steel Post with Riveted Cap	4
3	ZZPM0036	5in OD X 144in Steel Post with Riveted Cap	4
4	ZZPM0046	5in OD X 156in Steel Post with Riveted Cap	11
5	ZZPM0066	5in OD X 180in Steel Post with Riveted Cap	4
6	ZZUN0870	48in Deck Steel Filler Post	2
<b>Decks &amp; Kick Plates</b>			
7	ZZPM0616	Square Vinyl Deck Assembly	2
8	ZZPM0617	Triangular Vinyl Deck Assembly	1
9	ZZPM0618	½ Hex Vinyl Deck Assembly	2
10	ZZPM0629	Long Vinyl Deck Assembly	1
<b>ADA Items</b>			
11	ZZPM2027	Transfer Station (48in Deck)	1
12	ZZPM8230	Deck to Deck Accessible Climber	1
13	ZZUN2019	Approach Step for Transfer Station	1
<b>Slides</b>			
14	ZZPM2736	One Piece 360 degree Plastic Spiral Slide	1
15	ZZPM3126	Glide Slide (48in Deck)	1
16	ZZPM3136	Slither Slide Entry/Exit	1
17	ZZPM8070	Sliding Pole (48" deck)	1
18	ZZPM8090	Sliding Pole (72" deck)	1
19	ZZUN3157	Slither Slide (Right Section)	2
20	ZZUN3158	Slither Slide (Left Section)	2
21	ZZUN3169	Slither Slide Support Leg 3ft-6in	1
<b>Climber</b>			
22	ZZPM6976	Cliff Hanger (72in Deck)	1
23	ZZPM7950	Silo Climber (48in Deck)	1
24	ZZPM8170	Spiral Climber (72in Deck)	1
25	ZZPM8190	Tree Climber (48in Deck)	1
<b>Overhead Events</b>			
26	ZZPM5850	90 degree Horizontal Loop Ladder	2
27	ZZPPM5960	Overhead Event Access Ladder (24in Deck)	2
<b>Balance</b>			
28	ZZPM6906	Flip Flop	1
<b>Roofs &amp; Arches</b>			
29	ZZPM9828	Carnival Roof – Small Perforations (Square)	2
30	ZZPM9856	Carnival Roof Square Cap	2
31	ZZPM9896	Carnival Roof Small Perforations (Extended Hex)	1
32	ZZPM9906	Carnival Roof Extended Hex Cap	2
<b>Stairs and Ladders</b>			
33	ZZPM9157	Vinyl Coated Stairs (24in Deck)	1
34	ZZPM9170	24in Accessible Stepped Platform (Deck to Deck)	2

10.1 See Playworld Systems Product Specifications for additional specifications on the play equipment required for this project.

## **11. INSTALLATION**

### **11.1 Instructions**

11.1.1 Explicit, printed installation instructions 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.

11.1.2 Equipment must be installed by a manufacturer-certified installer and must be installed in accordance with the manufacturer's installation instructions.

11.1.3 Installation crew leader must be CPSI-certified.

11.1.3.1 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.

### **11.2 Close-out**

11.2.1 Contractor shall provide the Owner with one copy of complete manufacturer's installation instructions and maintenance kit.

11.2.2 Must send at least two (2) sets of manufacturers' installation manuals.

11.2.3 Additional sets of installation instructions should be purchased from the manufacturer if originals are lost or damaged.

11.2.4 It is the Contractor's responsibility to secure the installation instructions from the installer.

### **11.3 Clean-up**

11.3.1 The site shall be kept clean and free of tools, trash, debris and installation materials on a daily basis.

11.3.2 Material may be stored on site during installation with appropriate protective measures and approval by the Owner's representative.

# INSTRUCTIONS TO BIDDERS

## CITY OF LINCOLN, NEBRASKA

### BIDDING PROCEDURE

- 1.1 Bidder shall submit one (1) complete set of the bid documents and all supporting material, unless otherwise stipulated. All appropriate blanks shall be completed. Any interlineation, alteration or erasure on the specification document shall be initiated by the signer of the bid. Bidder shall not change the proposal form nor make additional stipulations on the specification document. Any amplified or qualifying information shall be on the bidder's letterhead and firmly attached to the specification document.
- 1.2 Bid prices shall be submitted on the Proposal Form included in the bid document.
- 1.3 Bidders may submit a bid on an "all or none" or "lump sum" basis, but should also submit a quotation on an item-by-item basis. Bidding documents shall be clearly marked indicating the kind of proposal being submitted.
- 1.4 Any person signing a bid for a firm, corporation, or other organization must show evidence of his authority so to bind such firm, corporation, or organization.
- 1.5 Bids received after the time and date established for receiving bids will be rejected.
- 1.6 If bidding on a Construction Contract, the City of Lincoln's Standard Specifications for Municipal Construction 2006 shall apply.
  - 1.6.1 Bidders may obtain this document from the City's Design Engineering Division of Public Works & Utilities for a small fee.
  - 1.6.2 Said document can be reviewed at Design Engineering or the Purchasing Division.
  - 1.6.3 The Standard Conditions are available on the web site.  
<http://www.lincoln.ne.gov/city/pworks/engine/dconst/standard/stndspec/index.htm>

### BIDDER'S SECURITY

- 2.1 Bid security, as a guarantee of good faith, in the form of a certified check, cashier's check, or bidder's bond, may be required to be submitted with this bid document, as indicated on the Proposal Form.
- 2.2 If alternates are submitted, only one bid security will be required, provided the bid security is based on the amount of the highest gross bid.
- 2.3 Such bid security will be returned to the unsuccessful bidders when the award of bid is made.
- 2.4 Bid security will be returned to the successful bidder(s) as follows:
  - 2.4.1 For single order bids with specified quantities: upon the delivery of all equipment or merchandise, and upon final acceptance by the City.
  - 2.4.2 For all other contracts: upon approval by the City of the executed contract and bonds.
- 2.5 City shall have the right to retain the bid security of bidders to whom an award is being considered until either:
  - 2.5.1 A contract has been executed and bonds have been furnished.
  - 2.5.2 The specified time has elapsed so that the bids may be withdrawn.
  - 2.5.3 All bids have been rejected.
- 2.6 Bid security will be forfeited to the City as full liquidated damages, but not as a penalty, for any of the following reasons, as pertains to this specification document:
  - 2.6.1 If the bidder fails to deliver the equipment or merchandise in full compliance with the accepted proposal and specifications.
  - 2.6.2 If the bidder fails or refuses to enter into a contract on forms provided by the City, and/or if the bidder fails to provide sufficient bonds or insurance within the time period as established in this specification document.

### BIDDER'S REPRESENTATION

- 3.1 Each bidder by signing and submitting a bid, represents that the bidder has read and understands the specification documents, and the bid has been made in accordance therewith.
- 3.2 Each bidder for services further represents that the bidder has examined and is familiar with the local conditions under which the work is to be done and has correlated the observations with the requirements of the bid documents.

### CLARIFICATION OF SPECIFICATION DOCUMENTS

- 4.1 Bidders shall promptly notify the Purchasing Agent of any ambiguity, inconsistency or error which they may discover upon examination of the specification documents.
- 4.2 Bidders desiring clarification or interpretation of the specification documents shall make a written request which must reach the Purchasing Agent at least five (5) calendar days prior to the date and time for receipt of bids.

- 4.3 Changes made to the specification documents will be made by written addenda to all known prospective bidders and posted on the City-County website at [lincoln.ne.gov](http://lincoln.ne.gov) Keyword - Bid.
- 4.4 Oral interpretations or changes to the Specification Documents made in any other manner, will not be binding on the City; and bidders shall not rely upon such interpretations or changes.

### 5. ADDENDA

- 5.1 Addenda are written instruments issued by the City prior to the date for receipt of bids which modify or interpret the specification document by addition, deletion, clarification or correction.
- 5.2 Copies of addenda will be made available for inspection at the office of the Purchasing Agent and on the City-County website.
- 5.3 No addendum will be issued later than forty-eight (48) hours prior to the date and time for receipt of bids, except an addendum withdrawing the invitation to bid, or an addendum which includes postponement of the bid.
- 5.4 Bidders shall ascertain prior to submitting their bid that they have received all addenda issued, and they shall acknowledge receipt of addenda on the proposal form.

### 6. INDEPENDENT PRICE DETERMINATION

- 6.1 By signing and submitting this bid, the bidder certifies that the prices in this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor; unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder prior to bid opening directly or indirectly to any other bidder or to any competitor; no attempt has been made, or will be made, by the bidder to induce any person or firm to submit, or not to submit, a bid for the purpose of restricting competition.

### 7. ANTI-LOBBYING PROVISION

- 7.1 During the period between the bid advertisement date and the contract award, bidders, including their agents and representatives, shall not lobby or promote their bid with any member of the City Council or City Staff except in the course of City-sponsored inquiries, briefings, interviews, or presentations, unless requested by the City.

### 8. BRAND NAMES

- 8.1 Wherever in the specifications or proposal form brand names, manufacturer, trade name, or catalog numbers are specified, it is for the purpose of establishing a grade or quality of material only; and the term "or equal" is deemed to follow.
- 8.2 It is the bidder's responsibility to identify any alternate items offered in the bid, and prove to the satisfaction of the City that said item is equal to, or better than, the product specified.
- 8.3 Bids for alternate items shall be stated in the appropriate brand on the proposal form, or if the proposal form does not contain blanks for alternates, bidder MUST attach to the specification documents on Company letterhead a statement identifying the manufacturer and brand name of each proposed alternate, plus a complete description of the alternate items including illustrations, performance test data and any other information necessary for an evaluation. The bidder must indicate any variances by item number from the specification document no matter how slight. Bidder must fully explain the variances from the specification document, since brochure information may not be sufficient.
- 8.4 If variations are not stated in the proposal, it will be assumed that the item being bid fully complies with the City's specifications.

### 9. DEMONSTRATIONS/SAMPLES

- 9.1 Bidders shall demonstrate the exact item(s) proposed within seven (7) calendar days from receipt of such request from the City.
- 9.2 Such demonstration can be at the City delivery location or a surrounding community.
- 9.3 If bidder does not have an item in the area, it will be at the bidder's expense to send appropriate City personnel to the nearest location to view and inspect proposed item(s).
- 9.4 If items are small and malleable, the bidder is proposing an alternate product, the bidder MUST supply a sample of the exact item. Samples will be returned at bidder's expense after receipt by the City of acceptable goods. Bidders must indicate how samples are to be returned.

### 10. DELIVERY (Non-Construction)

- 10.1 Each bidder shall state on his proposal form the date upon which he can make delivery of all equipment or merchandise.
- 10.2 The City reserves the right to cancel orders, or any part thereof, without obligation, if delivery is not made within the time(s) specified on the proposal form.

- 10.3 All bids shall be based upon **inside** delivery of the equipment/ merchandise F.O.B. the City at the location specified by the City, with all transportation charges paid.
- 10.4 At the time of delivery, a designated City of Lincoln employee will sign the invoice/packing slip. The signature will only indicate that the order has been received and the items actually delivered agree with the delivery invoice. This signature does not indicate all items met specifications, were received in good condition and/or that there is not possible hidden damage or shortages.

**11. WARRANTIES, GUARANTEES AND MAINTENANCE**

- 11.1 Copies of the following documents must accompany the bid proposal for all items being bid:
  - 11.1.1 Manufacturer's warranties and/or guarantees.
  - 11.1.2 Bidder's maintenance policies and associated costs.
- 11.2 As a minimum requirement of the City, the bidder will guarantee in writing that any defective components discovered within a one (1) year period after the date of acceptance shall be replaced at no expense to the City. Replacement parts of defective components shall be shipped at no cost to the City. Shipping costs for defective parts required to be returned to the bidder shall be paid by the bidder.

**12. ACCEPTANCE OF MATERIAL**

- 12.1 All components used in the manufacture or construction of materials, supplies and equipment, and all finished materials, shall be new, the latest make/model, of the best quality, and the highest grade workmanship.
- 12.2 Material delivered under this proposal shall remain the property of the bidder until:
  - 12.2.1 A physical inspection and actual usage of this material is made and found to be acceptable to the City; and
  - 12.2.2 Material is determined to be in full compliance with the specifications and accepted proposal.
- 12.3 In the event the delivered material is found to be defective or does not conform to the specification documents and accepted proposal, then the City reserves the right to cancel the order upon written notice to the bidder and return materials to the bidder at bidder's expense.
- 12.4 Successful bidder shall be required to furnish title to the material, free and clear of all liens and encumbrances, issued in the name of the City of Lincoln, Nebraska, as required by the specification documents or purchase orders.
- 12.5 Selling dealer's advertising decals, stickers or other signs shall not be affixed to equipment. Vehicle mud flaps shall be installed blank side out with no advertisements. Manufacturer's standard production forgings, stampings, nameplates and logos are acceptable.

**13. BID EVALUATION AND AWARD**

- 13.1 The signed bid proposal shall be considered an offer on the part of the bidder. Such offer shall be deemed accepted upon issuance by the City of purchase orders, contract award notifications, or other contract documents appropriate to the work.
- 13.2 No bid shall be modified or withdrawn for a period of ninety (90) calendar days after the time and date established for receiving bids, and each bidder so agrees in submitting the bid.
- 13.3 In case of a discrepancy between the unit prices and their extensions, the unit prices shall govern.
- 13.4 The bid will be awarded to the lowest responsible, responsive bidder whose proposal will be most advantageous to the City, and as the City deems will best serve its requirements.
- 13.5 The City reserves the right to accept or reject any or all bids; to request rebids; to award bids item-by-item, with or without alternates, by groups, or "lump sum"; to waive minor irregularities in bids; such as shall best serve the requirements and interests of the City.
- 13.6 In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit additional information as deemed necessary by the City. Failure to provide the information requested to make this determination may be grounds for a declaration of non-responsive with respect to the Bidder.
- 13.7 The City reserves the right to reject irregular bids that contain unauthorized additions, conditions, alternate bids, or irregularities that make the Bid Proposal incomplete, indefinite or ambiguous.
- 13.8 Any governmental agency may piggy back on any contract entered into from this bid.

**14. INDEMNIFICATION**

- 14.1 The bidder shall indemnify and save harmless the City of Lincoln, Nebraska from and against all losses, claims, damages, and expenses, including, attorney's fees arising out of or resulting from the performance of the contract that results in bodily injury, sickness, disease, death, or to injury to or destruction of tangible property, including the loss of use resulting therefrom and is caused in whole or in part by the Bidder, any subcontractor, any directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. This section will not require the Bidder to indemnify or hold harmless the City of Lincoln for any losses, claims damages, and expenses arising out of or resulting from the sole negligence of the City of Lincoln, Nebraska.
- 14.2 In any and all claims against the City or any of its members, officers or employees by an employee of the bidder, any subcontractor, anyone directly or indirectly employed by any of them or by anyone for whose acts made by any of them may be liable, the indemnification obligation under paragraph 13.1 shall not be limited in any way by any limitation of the amount or type of damages, compensation or benefits payable by or for the bidder or any subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts.

**15. TERMS OF PAYMENT**

- 15.1 Unless stated otherwise, the City will begin processing payment within thirty (30) calendar days after all labor has been performed and all equipment or other merchandise has been delivered, and all such labor and equipment and other materials have met all contract specifications.

**16. LAWS**

- 16.1 The Laws of the State of Nebraska shall govern the rights, obligations, and remedies of the Parties under this proposal and any agreement reached as a result of this process.
- 16.2 Bidder agrees to abide by all applicable State and Federal laws and regulations concerning the handling and disclosure of private and confidential information concerning individuals and corporations as to inventions, copyrights, patents and patent rights.

**17. AFFIRMATIVE ACTION**

- 17.1 The City of Lincoln-Lancaster County Purchasing Division provides equal opportunity for all bidders and encourages minority businesses and women's business enterprises to participate in our bidding process.

**18. LIVING WAGE**

- 18.1 The bidders agree to pay all employees employed in the performance of this contract, a base wage of not less than the City Living Wage per section 2.81 of the Lincoln Municipal Code. This wage is subject to change every July.

**19. EXECUTION OF AGREEMENT**

- 19.1 Depending on the type of service provided, one of the following three (3) methods will be employed. The method applicable to this contract will be checked below:
  - a. This Contract shall consist of a **PURCHASE ORDER** and a copy of the suppliers signed bid (or referenced bid number) attached and that the same, in all particulars, becomes the agreement and contract between the parties hereto: that both parties thereby accept and agree to the terms and conditions of said bid documents, and that the parties are bound thereby and the compensation to be paid the Supplier is as set forth in the Supplier's Bid. Items not awarded, if any, have been deleted.
  - b. The contract shall consist of a **YEARLY AGREEMENT** and a copy of the suppliers signed bid attached and that the same, in all particulars, becomes the agreement and contract between the parties hereto. That both parties thereby accept and agree to the terms and conditions of said bid documents, and that the parties are bound thereby and the compensation to be paid the Supplier is as set forth in the Suppliers' Bid. Items not awarded, if any, have been deleted.
  - c. Three (3) copies of the **CONTRACT**, unless otherwise noted.
    - 1. City will furnish three (3) copies of the Contract to the successful Bidder who shall prepare attachments as required. Insurance as evidenced by a Certificate of insurance, surety bonds properly executed, and Agreement signed with the date of signature shall be attached.
    - 2. The prepared documents shall be delivered to the City within 10 days (unless otherwise noted).
    - 3. The City will sign the Contract Agreement, insert the date of signature at the beginning of the Contract Agreement, prepare an Executive Order to go the Mayor for signature.
    - 4. Upon approval and signature from the Mayor, the City will return one copy to the Contractor.

# **SPECIAL CONDITIONS**

**Land and Water Conservation Funds Requirements**

**Pioneers Park Playground Renovation**

**Bid Section  
Lincoln Parks & Recreation Department**

**Specifciation No. 07-101**

**NEBRASKA GAME AND PARKS COMMISSION  
LAND AND WATER CONSERVATION FUND**

**PROCUREMENT BY SEALED BIDS**

**I. GENERAL**

In Nebraska a project item that will cost \$25,000 or more, in the aggregate, must be procured by the method of sealed bids (formal advertising). To determine the project item's aggregate cost, the sponsor or engineer must add the sum of all of the parts of the item that will make it a whole, usable and functional facility. A shelter project, for example, might consist of components such as the structure, concrete and electrical whose total combined (aggregate) estimated cost is \$25,000 or more. As such, the facility must be publicly advertised for sealed bids. **THE SPONSOR MAY NOT SEPARATE THE AGGREGATE ITEMS TO AVOID ADVERTISING A PROJECT ITEM.**

**II. SEALED BID STANDARDS**

Sealed bids are defined as bids that are publicly solicited and a firm fixed-price contract (lump sum or unit price) is awarded to the responsible bidder whose bid, conforming with all the material terms and conditions of the invitation for bids, is the lowest in price. All sealed bid procurement transactions will be conducted in a manner providing full and open competition. In order for sealed bids to be feasible, the following conditions should be present:

- A. A complete, adequate and realistic specification or purchase description is available;
- B. Two or more responsible bidders are willing and able to compete effectively for the business; and
- C. The procurement lends itself to a firm fixed-price contract and the selection of the successful bidder can be made principally on the basis of price.

When sealed bids are used, the following requirements apply:

- A. The invitation for bids will be publicly advertised and bids shall be solicited from an adequate number of known suppliers, providing them sufficient time prior to the date set for opening the bids;
- B. The invitation for bids, which will include any specifications and pertinent attachments, shall define the items or services in order for the bidder to properly respond;
- C. All bids will be publicly opened at the time and place prescribed in the invitation for bids;
- D. A firm fixed-price contract award will be made in writing to the lowest responsive and responsible bidder. Where specified in bidding documents, factors such as discounts, transportation costs and life cycle costs shall be considered in determining which bid is lowest. Payment discounts will only be used to determine the low bid when prior experience indicates that such discounts are usually taken advantage of; and
- E. Any or all bids may be rejected if there is a sound documented reason.

**III. SPONSOR'S RESPONSIBILITIES**

- A. **Plans and Specifications and Bid Documents.** The sponsor will be required to have prepared proper bid documents and plans and specifications for obtaining sealed bids for a project item that is estimated to cost \$25,000 or more or as required by state law. Such plans and specifications will be prepared by a Nebraska licensed and qualified architect or engineer. The sponsor, or the designated consultant, will submit two (2) sets of plans and specifications to the Nebraska Game and Parks Commission for review and approval **prior** to opening the sealed bids. The sponsor will receive an approval letter with additional procedural instructions.

**NOTE:** G & PC's review of the plans and specifications will be restricted to proper federal contract procurement provisions. The principal architect or engineer is ultimately responsible for the performance and safety of the facility or project items that are specified in the plans and specifications document. The NGPC reserves the right to require plans and specifications for any project item.

B. **Reviews and Approvals by Other Agencies.**

1. **State Electrical Division.** Construction projects involving major electrical work will be inspected by an inspector of the State Electrical Division upon project completion. There is a fee charged for this service and it is eligible for funding. IF your community has an electrical inspector, your inspector should do the inspection. Submit one (1) copy of their final inspection report. You or your consultant is responsible for contacting division personnel.
2. **Department of Environmental Quality.** Construction projects involving septic tank/tile fields or sanitary sewers should be forwarded directly to the Department of Environmental Quality, Wastewater Facilities Section, PO Box 98922, Lincoln NE 68509-8922. Submit one (1) copy of their review and approval. There is a fee charged for this service and it is eligible for funding.
3. **Department of Health.** Projects involving underground irrigation projects should be sent directly to the Department of Health, Division of Environmental Health and Housing Surveillance, PO Box 95007, Lincoln NE 68509-5007. Submit one (1) copy of their review and approval. There is a fee charged for this service and it is eligible for funding.

Generally approvals by either the Department of Environmental Quality or the Department of Health will be granted prior to opening any sealed bids. If this is not possible, a Change Order will be necessary to incorporate their comments into the plans and specifications. No review is required for projects involving water fountains or yard hydrants. However, it is expected that the local sponsor provide safe and sanitary delivery facilities for public use and that, where possible, they be made accessible and usable by the handicapped.

- C. **Handicapped Accessibility Requirements.** All facilities subject to Title II of the Americans with Disabilities Act (A.D.A.) must be designed and constructed in conformance with the Accessibility Guidelines for Buildings and Facilities. These design guidelines were modeled on the Uniform Federal Accessibility Standards that were previously required on Land and Water Conservation Fund projects. Upon request the NGPC can provide guidelines, however, your consultant should already have them.
- D. **Awarding a Contract.** Contracts must be awarded to the low, qualified bidder, whose bid conforms with all of the terms and conditions of the invitation for bids. Submit one (1) signed contract to NGPC.
- E. **Change Orders.** All change orders will be reviewed and approved by NGPC. Submit one (1) copy for staff review, if possible, prior to signing, then forward one (1) copy of the fully executed order.

**IMPORTANT NOTE: The sponsor must first obtain written permission from the Nebraska Game and Parks Commission to award any contract to a bidder whose bid is:**

1. **Higher than the apparent low bidder; or**
2. **When only one bid is received in response to the bid solicitation.**
3. **See I. Below.**

**Written approval to award a contract under these circumstances will be given by the Nebraska Game and Parks Commission prior to actual award of the contract.**

- F. **Debarred/Suspended Contractors.** Under no circumstances will a contract be awarded to any bidder who is debarred or suspended from doing business with the Federal government. The contractor must sign the certificate that is included with these instructions (See Attachment A). The signed certificate must be returned to this office, along with the signed contract. Each prospective contractor should sign the form and provide it with the proposal as assurance to the project sponsor that the contractor is not debarred or suspended from doing business with the federal government.
- G. **Notice of Contract Award.** The sponsor must submit the Notice of Contract Award found on page 6 to the address given within ten (10) days after the award when the contract is \$25,000 or more.
- H. **Conflict of Interest.** No employee, office or agent of the project sponsor shall participate in selection, or in the award or administration of a contract supported by Federal funds if a conflict of interest, real or apparent, would be involved. Such a conflict would arise when: 1) the employee, officer or agent; 2) any member of his immediate family; 3) his or her partner; or 4) an organization which employs, or is about to employ, any of the above, has a financial or other interest in the firm selected for award. The project sponsor's officers, employees or agents will neither solicit nor accept gratuities, favors or anything of monetary value from contractors, potential contractors, or parties to subagreements.
- I. **Responsible Contractors.** Project sponsors will make awards only to responsible contractors possessing the ability to perform successfully under the terms and conditions of a proposed procurement. Consideration will be given to such matters as contractor integrity, compliance with public policy, record of past performance and financial and technical resources. If necessary, the sponsor may be required to submit the appropriate documentation that substantiates the reasons for not awarding a contract to such a contractor.
- J. **Record Retention.** Project sponsors will maintain records sufficient to detail the significant history of a procurement. These records will include, but are not limited to the following: rationale for the method of procurement, selection of contract type, contractor selection or rejection and the basis for the contract price.
- K. **Contracting with Small and Minority Business Firms, Women's Business Enterprises and Labor Surplus Area Firms.** (From OMB Circular A-102, 43 CFR, Part 12. Federal Register, Vol. 53, No. 48, Friday, March 11, 1988, Rules and Regulations).

The sponsor will take all necessary affirmative steps to assure that minority firms, women's business enterprises and labor surplus area firms are used when possible. Affirmative steps shall include:

1. **Placing qualified small and minority business and women's business enterprises on solicitation lists.**

2. **Assuring that small and minority business and women's business enterprises are solicited whenever they are potential sources.**
3. **Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority business and women's business enterprises.**
4. **Establishing delivery schedules, where the requirement permits, which encourages participation by small and minority business and women's business enterprises.**
5. **Using the services and assistance of the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.**
6. **Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed above.**

**NOTE: See Attachment B.**

**SEND TO:**

**U.S. Department of Labor  
Office of Federal Contract Compliance  
106 South 15th Street - Room 808  
Omaha NE 68102**

**NOTICE OF CONTRACT AWARD**

1. **CONTRACTOR'S NAME:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
**PHONE NUMBER:** \_\_\_\_\_
  
2. **EMPLOYER IDENTIFICATION NUMBER:** \_\_\_\_\_  
**(Social Security Number)**
  
3. **DOLLAR AMOUNT OF CONTRACT:** \_\_\_\_\_
  
4. **ESTIMATED STARTING DATE:** \_\_\_\_\_
  
5. **GEOGRAPHIC AREAS IN WHICH CONTRACT IS TO BE PERFORMED:**

\_\_\_\_\_

<b>County</b>	<b>City (If Applicable)</b>	<b>State</b>
---------------	-----------------------------	--------------

\_\_\_\_\_ **Sponsors Name**

\_\_\_\_\_ **Signature**

\_\_\_\_\_ **Title**

\_\_\_\_\_ **Date**

#### IV. ARCHITECT/ENGINEER RESPONSIBILITIES

The following items, where required, are to be in the specification document for construction or for material only projects. Refer to Attachment C for a checklist of requirements that need to be in the specification document for projects of varying estimated costs. Material only contracts, of course, do not need employment provisions, so only the provisions of A, C, D & E apply to a project of that nature.

- A. Notice to Bidders. The public notice that will be in the newspaper must contain the following things:
1. Project Name
  2. Project Number - NPS 31-00--- (NPS stands for National Park Service)
  3. This statement Verbatim: "Federal Funds will be used to assist with the development of this project."
- B. Copeland Anti-Kickback Act (18 U.S.C. 874) and as Supplemented in Department of Labor Regulations (29 CFR, Part 3). Include the following statement verbatim in the specification for all contracts for construction and repair regardless of contract cost:
- "The contractor agrees that he will not induce, by any means, any person employed in the construction, completion or repair of public work to give up any part of the compensation to which he is otherwise entitled."
- C. Breach of Contract. Contracts shall contain such contractual provisions or conditions which allow for administrative, contractual or legal remedies in instances in which contractors violate or breach contract terms, and provide for such sanctions and penalties as may be appropriate (AIA or NSPE Standard General Conditions are acceptable standards for this purpose).
- D. Access to Records. Include the following statement verbatim in the specification document:
- "The contractor agrees that the owners, the Federal grantor agency (NPS), the Comptroller General of the United States, or any of their duly authorized representatives shall have access to any books, documents, papers and records of the contractor which are directly pertinent to a specific program for the purpose of making audit, examination, excerpts and transcriptions.
- E. Termination. All contracts in excess of \$25,000 shall contain suitable provisions for termination by the grantee including the manner by which it will be effected and the basis for settlement. In addition, such contracts shall describe conditions under which the contract may be terminated for default as well as conditions where the contract may be terminated because of circumstances beyond the control of the contractor. (Again, AIA or NSPE Standard General Conditions are acceptable.)
- F. Bonding Requirements (For Contracts or Subcontracts Exceeding \$100,000).
1. A bid guarantee from each bidder equivalent to five percent of the bid price. The "bid guarantee" shall consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of his bid, executes such contractual documents as may be required with the time specified.

2. A performance bond on the part of the contractor for 100 percent of the contract price. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such a contract.
3. A payment bond on the part of the contractor for 100 percent of the contract price. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

G. Federal Water Pollution Control Act (For Contracts Exceeding \$100,000). The contractor is required to comply with the provisions of the Clean Air Act of 1970 (42 U.S.C. 1857 et. seq.).

H. Equal Employment Opportunity Contract Compliance. These contractor requirements are applicable to construction subcontracts to be awarded that involve workers and that exceed \$25,000. Include all of Attachment B in the specification document.

I. Debarment and Suspension Form. For all contracts which are expected to equal \$25,000 or more, the contractor must complete the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion" form with the bid. Project sponsors must not make any award or permit any award (subgrant or contract) at any tier to any party which is debarred or suspended or is otherwise excluded from or ineligible for participation in Federal assistance programs under Executive Order No. 12549, "Debarment and Suspension" (see Attachment A).

J. Contract Work Hours and Safety Standards Act. Include the following statement verbatim in the specification documents for construction contracts awarded by sponsors in excess of \$2,000, and in excess of \$2,500 for other contracts which involve the employment of mechanics or laborers:

"Compliance with Sections 103 & 107 of the Act (40 U.S.C. 327-330) as supplemented by Department of Labor Regulations (29 CFR, Part 5). The provisions of the Act are as follows:

1. **Overtime Requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek, whichever is greater.
2. **Violation.** Liability for unpaid wages; liquidated damages in the event of any violation of the clauses set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefore to be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards employed in violation of the clause set forth in subparagraph (1) of this paragraph in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard work week of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

3. **Withholding for Unpaid Wages and Liquidated Damages.** The National Park Service, or its designee, shall, upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.
4. **Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this paragraph, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontract. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

### **HEALTH AND SAFETY**

1. No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.
  2. The contractor shall comply with regulations issued by the Secretary of labor pursuant to Title 29, Part 1926 (formerly part 1518) and failure to comply may result in imposition of sanctions pursuant to the Contract work Hours and Safety Standards Act (P.L. 91-54.83, Stat 96).
  3. The contractor shall include the provisions of this Article in every subcontract so that such provisions will be binding on each subcontractor. The contractor will take such action with respect to any subcontract as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.
- K. **Davis-Bacon Act.** The provisions of this Act do not apply to the Land and Water Conservation Fund program.
- L. **Executive Order No. 11246.** The provisions of this order must be included in the specifications verbatim as found on pages 11-22. Such provisions include the Certification of Non-Segregated Facilities, the Equal Opportunity Clause, Notice of Requirement for Affirmative Action to Ensure Equal Opportunity, Standard Federal Equal Employment Opportunity Construction Contract Specifications and Reporting Requirements for all projects over \$25,000 that are all included in the instructions.

- M. **Copyrights.** The Federal awarding agency (NPS) reserves a royalty-free, non-exclusive, and irrevocable license to reproduce, publish or otherwise use, and to authorize others to use, for Federal Government purposes:
1. The copyright in any work developed under a grant, subgrant, or contract under a grant or subgrant; and
  2. Any rights of copyright to which a grantee, subgrantee or a contractor purchases ownership with grant support.
- N. **Brand Name.** Specifying brand name only is prohibited. Instead, the term "or equal" should be provided in the specification. Inform the G & PC if the item is available only from a single source.

# CERTIFICATION OF NON-SEGREGATED FACILITIES

The federally-assisted construction contractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments and that he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for such employees which are segregated by explicit directive, or are in fact segregated on the basis of race, creed, color or national origin, because of habit, local custom or otherwise. The federally-assisted construction contractor agrees that (except where he has obtained identical certifications from proposed contractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$25,000 which are not exempt from the provisions of the Equal Opportunity clause, and that he will retain such certification in his files.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Name and Title of Signer - Please Type or Print)

**NOTE:** The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

# EQUAL OPPORTUNITY CLAUSE

During the performance of this contract, the contractor agrees as follows:

- A. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, creed, color or national origin, such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this non-discrimination clause.
- B. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex or national origin.
- C. The contractor will send to each labor union or representative of workers which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union, or worker's representative of the contractor's commitments under this section, and shall post copies of notices in conspicuous places available to employees and applicants for employment.
- D. The contractor will comply with all provisions of Executive Order No. 11246, as amended, and the rules, regulations and relevant orders of the Secretary of Labor.
- E. The contractor will furnish all information and reports required by Executive Order No. 11246, as amended, and by the rules, regulations and orders of the Secretary of Labor or pursuant thereto, and will permit access to his books, records and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.
- F. In the event of the contractor's non-compliance with the non-discrimination clauses of this contract or with any such rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with the procedures authorized in Executive Order No. 11246, as amended, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246, as amended, or by rules, regulations or order of the Secretary of Labor, or as otherwise provided by law.
- G. The contractor will include the provisions of Paragraphs (A) - (G) in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246, as amended, so that such provisions will be binding upon each subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions, including sanctions for non-compliance: Provided, however, that in the event the contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interest of the United States.

**STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY  
CONSTRUCTION CONTRACT SPECIFICATIONS  
(EXECUTIVE ORDER NO. 11246)**

- 1 As used in these specifications:
  - a "Covered Area" means the geographical area described in the solicitation from which this contract resulted;
  - b "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
  - c "Employer Identification Number" means the Federal Social Security Number used on the employer's Quarterly Federal Tax Return, U.S. Treasury Department, Form 941;
  - d "Minority" includes:
    - i Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
    - ii Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish cultures or origin, regardless of race);
    - iii Asian or Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent or the Pacific Islands); and
    - iv American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2 Whenever the contractor or subcontractor, at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$25,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which the contract resulted.
- 3 Whenever the contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

**The contractor shall implement the specific affirmative action standards provided in paragraphs (7a) through (7p) of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The contractor is expected to make substantially uniform progress towards its goal in each craft during the period specified.**

**Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the contractor's obligation under these specifications. Executive Order No. 11246, or the regulations promulgated pursuant thereto.**

**In order for the non-working training hours of apprentices and trainees to be counted in meeting goals, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.**

**The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from these actions. The contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:**

- a**     **Ensure and maintain a working environment free of harassment, intimidation and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all foremen, superintendents and other on-site supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.**
- b**     **Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.**
- c**     **Maintain a current file of the name, address and telephone numbers of each minority and female off-the-street applicant and minority and female referral from a union, a recruitment source or community organization and of what action was taken with respect to each individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union, or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the contractor may have taken.**
- d**     **Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or woman sent by the contractor, or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligation.**
- e**     **Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor**

shall provide notice of these programs to the sources compiled under (7b) above.

- f** Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting its EEO obligations by including it in any policy manual and collective bargaining agreement, by publicizing it in the company newspaper, annual report, etc., by specific review of the policy with all management personnel and with all minority and female employees at least once a year, and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g** Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of those items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed and disposition of the subject matter.
- h** Disseminate the contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.
- i** Direct its recruitment efforts, both oral and written, to minority, female and community organizations to schools with minority and female students and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment sources, the contractor shall send written notification to organizations such as the above, describing the opening, screening procedures and tests to be used in the selection process.
- j** Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide school, summer and vacation employment to minority and female youth both on the site and in other areas of a contractor's work force.
- k** Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR, Part 60-3.
- l** Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m** Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.
- n** Ensure that all facilities and company activities are non-segregated except that separate or singular-use toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o** Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

- p Conduct a review, at least annually, of all supervisor's adherence to and performance under the contractor's EEO policies and affirmative action obligations.**
- 3 Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of the affirmative action obligations (7a) through (7p). The efforts of a contractor association, joint contractor-union, contractor-community and other similar groups of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under (7a) through (7p) of these specifications provided that the contractor actively participates in the group, makes an effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's non-compliance.**
- 9 A single goal for minorities and separate single goal for women have been established. The contractor, however, is required to provide equal employment opportunity and take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally, the contractor may be in violation of the Executive Order if a specific minority group of women is under-utilized).**
- 10 The contractor shall not use the goals and timetables of affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.**
- 11 The contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order No. 11246, as amended.**
- 12 The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed for ordered pursuant to Executive Order No. 11246, as amended, and its implementing regulations, by the office of Federal Contract Compliance Program. Any contractor who fails to carry out such sanction and penalties shall be in violation of these specifications and Executive Order No. 11246, as amended.**
- 13 The contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to employ with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.**
- 14 The contractor shall designate a responsible official to monitor all employment-related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof, as may be required by the Government and to keep records. Records shall at least include for each employee, the name, address, telephone numbers, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic, apprentice, trainee, helper or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay and locations at which work was performed. Records shall be maintained in an easily understandable and retrievable form, however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.**
- 15 Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for hiring of local**

**or other area residents (e.g. those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).**

## **REPORTING REQUIREMENTS FOR ALL PROJECTS OVER \$25,000 Monthly Employment Utilization Report**

**All prime contractors and subcontractors having 50 or more employees and performing work on federally-assisted projects are required to complete cc 257, listing their aggregate work force in each trade on all projects both federally and non-federally funded in the designated area. Each prime and subcontractor must also attach a listing of projects (both federal and non-federal in the designated area must be included. The accompanying list must provide the following information:**

- 1 Name and location of the project.**
- 2 Owner of the project (City, County or Private).**
- 3 Project Number, if any.**
- 4 Percentage complete.**
- 5 Dollar amount of contract.**
- 6 Estimated date of completion.**

**Prime contractors are responsible for collecting cc257 and the listing of all projects (both federal and non-federal in excess of \$25,000) from each of his subcontractors performing work on this project. The prime contractors will then forward their cc 257 and all of the subcontractor's cc257s as well as project list information to the U.S. Department of Labor, Federal Office Building, Room 2000, 911 Walnut street, Kansas City MO 64106**

### **PLEASE NOTE:**

**Failure to submit the cc 257 by the fifth day of each month constitutes non-compliance with Executive Order No. 11246, as amended. Non-compliance is grounds for the issuance of a legal show cause notice for an informal hearing, authorized by OFCCP Rules and Regulations 41 CFR 60-1.7. Such a hearing could result in cancellation, termination or suspension of the contract.**

## **EEO-1 REPORTING REQUIREMENTS**

- 1 Each construction and non-construction prime contractor and first tier subcontractor who has 50 or more employees on total corporate or company payroll and signs a direct federal or financially-assisted contract, subcontract or purchase order in the amount of \$50,000 or more, shall file annually, in triplicate, on or before the 31st day of March, complete and accurate reports on Standard Form 100, Employer Information Reports (EEO-1) to the Joint Reporting Committee.**

- 2 **Each contractor or subcontractor required in paragraph (1) above shall submit an EEO-1 to the Joint Reporting Committee WITHIN 30 DAYS after award of such contract, subcontractor or purchase order as mentioned in paragraph (1) above, UNLESS such contractor or subcontractor has already submitted an EEO-1 report to the Joint Reporting Committee within 12 months preceding the date of award of a financially-assisted contract.**
- 3 **Failure to file timely, complete and accurate reports, as required in paragraphs (1) and (2) above constitutes non-compliance with the contractor's or subcontractor's obligations under Executive Order No. 11246, as amended, and is grounds for the imposition by the U.S. Department of Labor of any sanctions authorized by Executive Order No. 11246, as amended, and other rules and regulations pursuant thereto.**

**NOTE:**

**Contractors and subcontractors may obtain EEO-1 reporting forms by writing to: Joint Reporting Committee, 2401 " E" Street, Northwest Washington DC 20506.**

### **POSTING REQUIREMENTS**

**Immediately after construction begins and for the duration of construction the successful bidder, prime contractor or subcontractor must post in conspicuous places at the project site available to employees and applicants for employment, EEO notices which shall be provided by the owner after contract award.**

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION  
TO  
ENSURE EQUAL EMPLOYMENT OPPORTUNITY  
(EXECUTIVE ORDER NO. 11246)**

1. The Offerer's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" as set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

**GOALS FOR FEMALE PARTICIPATION IN EACH TRADE**

Until further notice, the goal of 6.9% for each trade is applicable statewide.

**GOALS FOR MINORITY PARTICIPATION IN EACH TRADE**

Until further notice, the goals for each trade are shown by Area and County. All counties are in Nebraska unless otherwise shown.

**103 South Sioux City, IA (Parts in IA, NE & SD):**

Dakota	1.9
All Other Counties	1.2

Antelope	Madison
Cedar	Pierce
Cuming	Stanton
Dakota	Thurston
Dixon	Wayne
Knox	

**142 LINCOLN AREA**

Lancaster	2.8
All Other Counties	1.9

Butler	Pawnee
Fillmore	Polk
Gage	Richardson
Jefferson	Saline
Johnson	Seward
Nemaha	Thayer
Otoe	York

**143 OMAHA AREA:**

Douglas, Sarpy and Pottawattamie IA	7.6
All Other Counties	5.3

Cass	Adams IA
Burt	Audubon IA
Colfax	Fremont IA
Dodge	Harrison IA
Platte	Mills IA
Saunders	Montgomery IA
Washington	Page IA
	Shelby IA
	Taylor IA

**144 GRAND ISLAND AREA:**

All Counties	1.4	Furnace
Adams		Garfield
Arthur		Gosper
Blaine		Grant
Boone		Greeley
Boyd		Hall
Brown		Hamilton
Buffalo		Harlan
Chase		Hayes
Cherry		Hitchcock
Clay		Holt
Custer		Hooker
Dawson		Howard
Dundy		Kearney
Franklin		Keith
Frontier		Keya Paha

**SCOTTSBLUFF AREA:**

All Counties	5.3	Lincoln	Banner	Kimball
		Logan	Box Butte	Morrill
		Loup	Cheyenne	Scotts Bluff
		McPherson	Dawes	Sheridan
		Merrick	Deuel	Sioux
		Nance	Garden	
		Nuckolls		
		Perkins		
		Phelps		
		Red Willow		
		Rock		
		Sherman		
		Thomas		
		Valley		
		Webster		
		Wheeler		

These goals are applicable to all the contractor's construction work (whether or not it is federal or federally-assisted) performed in the covered area.

The contractor's compliance with the Executive Order and the regulations in 41 CFR, Part 60-4 shall be based on its implementation of the Equal Employment Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 50-4.3(a), and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR, Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance program within ten (10) working days of award of any construction subcontract in excess of \$25,000 in any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number, estimated dollar amount of the subcontract, estimated starting and completion dates of the subcontract, and the geographical area in which the contract is to be performed.
  
4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is:
 

*	<u>6.9</u>	<u>142</u>	<u>2.8</u>
	(State)	(City)	(County)

**\*(NOTE TO ARCHITECTS/ENGINEERS: FILL IN THE BLANKS BEFORE SENDING SPECIFICATIONS FOR REVIEW.)**

U.S. DEPARTMENT OF THE INTERIOR

CERTIFICATION REGARDING  
DEBARMENT, SUSPENSION, INELIGIBILITY AND  
VOLUNTARY EXCLUSION

LOWER TIER COVERED TRANSACTIONS

=====  
This certification is required by the regulations implementing Executive Order No. 12549, Debarment and Suspension, 43 CFR, Part 12, Section 12.510, Participants' responsibilities. The regulations were published as Part VII of the May 26, 1988 Federal Register (pages 19160-19211). Copies of the regulations are included in the proposal package. For further assistance in obtaining a copy of the regulations, contact the U.S. Department of the Interior, Acquisition and Assistance Division, Office of Acquisition and Property Management, 18th and C Streets, N.W., Washington DC 20240.

BEFORE COMPLETING CERTIFICATION:  
READ INSTRUCTION ON REVERSE SIDE

(1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal department or agency.

(2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participants shall attach an explanation to this proposal.

=====  
NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

=====  
SIGNATURE

DATE

## INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated, may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction", "debarred", "suspended", "ineligible", "lower tier covered transaction", "participant", "person", "primary covered transaction", "principal", "proposal", and "voluntarily excluded", as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order No. 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal, that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transactions with a person who is debarred, suspended, declared ineligible or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction" without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Non-procurement List (Tel.#).
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal

Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

**REQUIREMENTS FOR EQUAL EMPLOYMENT OPPORTUNITY  
AND CONTRACT COMPLIANCE**

**CONTRACTING WITH SMALL AND MINORITY FIRMS, WOMEN'S BUSINESS  
ENTERPRISES AND LABOR SURPLUS AREA FIRMS  
(FROM ATTACHMENT "O" OMB CIRCULAR A-102)**

If any subcontracts are to be awarded, the prime contractor shall take affirmative steps to include the following:

1. Include qualified small and minority businesses on solicitation lists.
2. Assure that small and minority businesses are solicited whenever they are potential sources.
3. When economically feasible, divide the total requirements into smaller tasks or quantities so as to permit maximum small and minority business participation.
4. Where the requirements permit, establish schedules which will encourage participation by small and minority businesses.
5. Use the services and assistance of the Small Business Administration, the Office of Minority Business Enterprise of the Department of Commerce and the Community Services Administration as required.

**CONTRACTORS PLEASE NOTE:** A listing of potential sources to inform Minority/Women Contractors and a list of Minority-owned Construction Firms may be obtained from the Engineer or Architect.

LAND AND WATER CONSERVATION FUND  
COMPLIANCE CHECKLIST

REQUIREMENTS	Less Than \$25,000	Contract Amount \$25,000 to \$99,000	\$100,000 to \$1,000,000
<b>SPONSOR'S RESPONSIBILITIES</b>			
A. Contracting with Small and Minority or Women's Business		X	X
B. Handicapped Compliance	X	X	X
C. Notice of Contract Award		X	X
<b>MINIMUM SPECIFICATION ELEMENTS - CONSULTANT RESPONSIBILITIES</b>			
A. Notice to Bidders		X 5	X
B. Copeland Anti-Kickback Act	X	X	X
C. Breach of Contract Provisions	X	X 5	X
D. Contract Works Hours Act	X	X	X
E. Access to Records Provisions	X	X 5	X
F. Copyright Provisions	X	X	X
G. Contract Termination Provisions		X 5	X
H. Suspension and Debarment		X 5	X
I. Affirmative Action Requirements		X	X
J. Bond Requirements			X
K. Water Pollution Control Act			X
L. Clean Air Act			X

NOTE: For all contracts less than \$25,000 whether formally advertised or not, the items listed above, "Less than \$25,000" column, **must be** included in the contract. Material only contracts do not need labor provisions in the specification.

5 Include these in the specifications for material only procurements.

## DOCUMENT SUBMITTAL CHECK LIST

**PLANS AND SPECIFICATIONS** - Send two (2) copies to the NGPC for review and further guidance.

**SIGNED CONTRACT** - Send one (1) signed contract, and bonds if required, for each successful bidder.

**CHANGE ORDER** - Send one (1) copy of each Change Order for review and approval.

**DEPARTMENT OF ENVIRONMENTAL QUALITY APPROVAL** - Send one (1) copy of the approval letter.

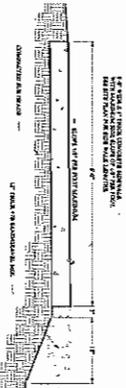
**STATE ELECTRICAL DIVISION REPORT** - Send one (1) copy of the final inspection.

**DEPARTMENT OF HEALTH APPROVAL** - Send one (1) copy of the approval letter.

**DEBARMENT/SUSPENSION CERTIFICATE** - Send one (1) copy having the signature of the successful contractor(s).

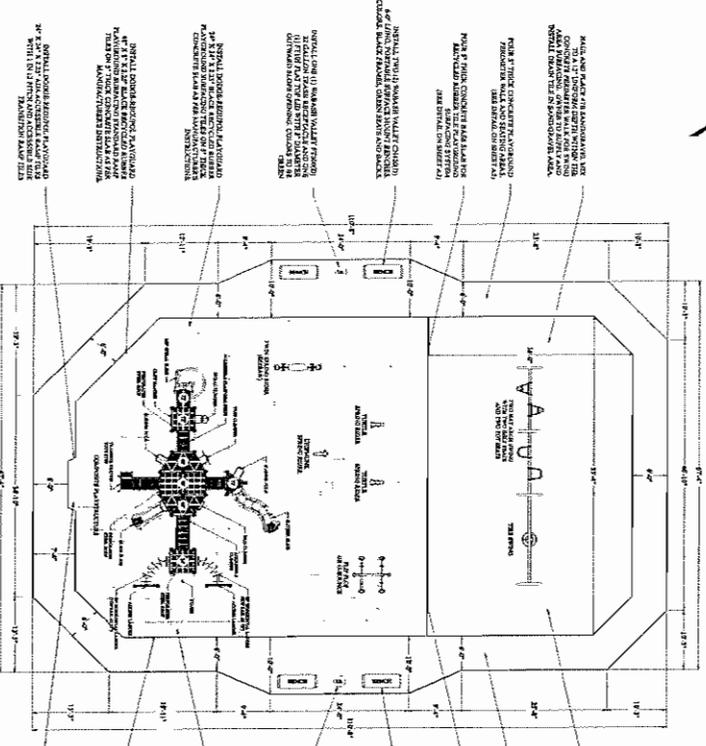


**BASE BID:**  
 NEW PLAYGROUND FACILITY ON PREPARED SITE AT PIONEER PARK IN LINCOLN, NEBRASKA'S DEANS AND SPECTER. WORK TO INCLUDE FINAL GRADE ADJUSTMENTS, CONCRETE CONSTRUCTION, PURCHASE AND INSTALLATION OF FURNITURE AND EQUIPMENT, FINISHES AND FINISH GRADING. BACK FILL AND FINISH GRADING.



**NOTE:**  
 THE PLAYGROUND EQUIPMENT SHOWN IS MANUFACTURED BY THE MANUFACTURER SHOWN. THE CONTRACTOR WILL CONSIDER OTHER EQUIPMENT MANUFACTURERS THAT MEET OR EXCEED THE TECHNICAL SPECIFICATIONS.

**TYPICAL SIDEWALK DETAIL @ PLAYGROUND**  
 NOT TO SCALE



**PLAYGROUND LAYOUT PLAN**  
 SCALE: 1/8" = 1'-0"

**PROJECT NOTES:**

1. Location of improvements as shown and specified shall be as shown by the Contractor through discussion between field construction and those shown on the Owner's representation for field construction.
2. Contractor responsible for all field utility. Contractor to contact Owner's representative for field utility.
3. For a list of approved equipment manufacturers, see City of Lincoln, Nebraska, All City of Lincoln Standard Specification and Addendum 000-000.
4. Contractor responsible for providing barriers and signage on private public access to the construction site.
5. Prior to starting work on this site, the Contractor shall notify the Owner's representative to the field.
6. The Contractor will be required to make any further grading adjustments, which will be required by the field.
7. Contractor responsible for providing all materials and equipment for the construction. Contractor to provide materials with any necessary permit information at the Contractor's request.

**PRODUCT MANUFACTURERS:**

Playground Systems  
 202 East 14th Street  
 Lincoln, NE 68502  
 (402) 441-1111  
 (402) 441-1111  
 (402) 441-1111



DATE	1/15/2024
DRAWN BY	J.A.
CHECKED BY	J.A.
IN CHARGE	J.A.
PROJECT NO.	23
PROJECT NAME	PLAYGROUND





# Product Specifications

©Playworld Systems, Inc. Thursday, March 01, 2007

## 5" O.D. X 108" GROUND ZERO POST

### **5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

### **Crown/Post/End Cap**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

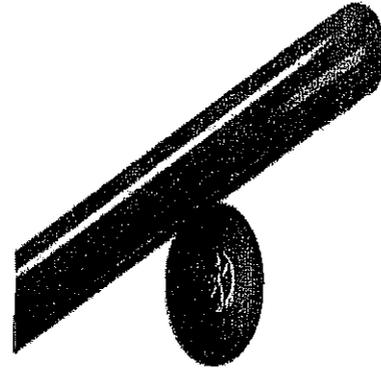
### **Drive Rivet**

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

### **Steel Tubing - 5 in. OD, 11 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

## ZZPM0008GZ



\* See Note

<b>Component Number:</b>	<b>ZZPM0008GZ</b>
<b>Specification Rev:</b>	<b>ECN343</b>
<b>Component Weight:</b>	<b>60.6 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.18 Yrds.</b>

## 5in OD X 132in STEEL POST W/ RIVETED CAP

### **5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

### **Crown/Post/End Cap**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

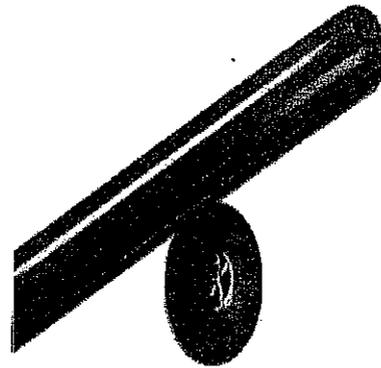
### **Drive Rivet**

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

### **Steel Tubing - 5 in. OD, 11 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

## ZZPM0026



\* See Note

<b>Component Number:</b>	<b>ZZPM0026</b>
<b>Specification Rev:</b>	<b>ECN605</b>
<b>Component Weight:</b>	<b>74.2 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.12 Yrds.</b>

## 5in OD X 156in STEEL POST W/ RIVETED CAP

### **5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel

## ZZPM0046

tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Crown/Post/End Cap**

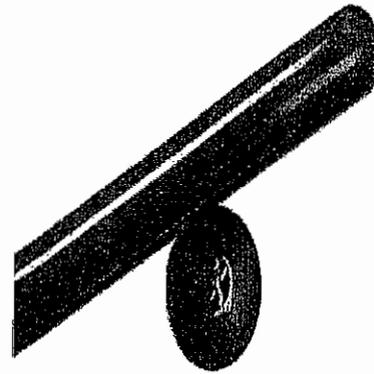
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

**Steel Tubing - 5 in. OD, 11 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Drive Rivet**

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.



\* See Note

**Component Number:** ZZPM0046  
**Specification Rev:** ECN343  
**Component Weight:** 87.7 Lbs.  
**Amount of Concrete:** 0.13 Yrds.

**5in OD X 168in STEEL POST W/ RIVETED CAP**

**5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Crown/Post/End Cap**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

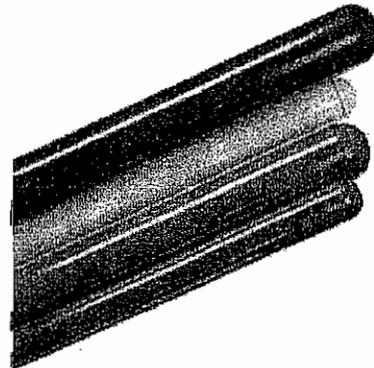
**Drive Rivet**

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

**Steel Tubing - 5 in. OD, 11 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**ZZPM0056**



\* See Note

**Component Number:** ZZPM0056  
**Specification Rev:** ECN343  
**Component Weight:** 92.5 Lbs.  
**Amount of Concrete:** 0.13 Yrds.

**5in OD X 180in STEEL POST W/ RIVETED CAP**

**5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Crown/Post/End Cap**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Each crown and post cap shall be fastened to the end of the tubing with drive rivets. Plastic post end caps and plastic rivets are unacceptable. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat

**ZZPM0066**

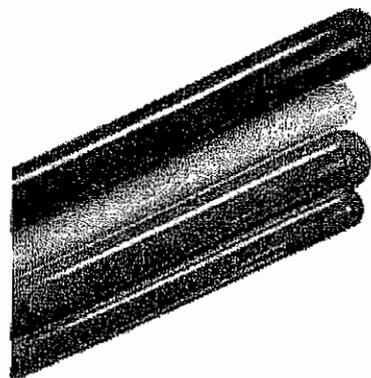
Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

#### ***Drive Rivet***

The rivet shall be fabricated of 2117 aluminum alloy. The pin shall be fabricated of 7075 aluminum alloy.

#### ***Steel Tubing - 5 in. OD, 11 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.



\* See Note

<b>Component Number:</b>	<b>ZZPM0066</b>
<b>Specification Rev:</b>	<b>ECN343</b>
<b>Component Weight:</b>	<b>100.8 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.13 Yrds.</b>

### **SQUARE VINYL DECK ASSEMBLY**

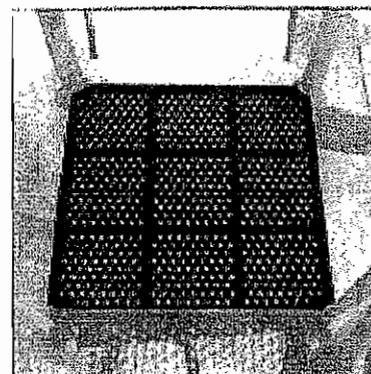
#### ***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

#### ***PM Square PlayArmour Platform***

Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9 mm) diameter perforated holes. Decks shall have slots along each face to accommodate face mounting of components. The flange formed decks shall also incorporate the use of underdeck support struts to insure structural integrity. Square deck shall have 2226 square inches (1436215 square mm) of surface area. Entire deck weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)

### **ZZPM0616**



\* See Note

<b>Component Number:</b>	<b>ZZPM0616</b>
<b>Specification Rev:</b>	<b>PA704</b>
<b>Component Weight:</b>	<b>105.45 Lbs.</b>
<b>Number of Users:</b>	<b>4</b>

### **TRIANGULAR VINYL DECK ASSEMBLY**

#### ***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

### **ZZPM0617**

***PlayArmour Deck / Platform - 12 ga***

Shall be an all welded assembly fabricated of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)



\* See Note

**Component Number:** ZZPM0617  
**Specification Rev:** PA705  
**Component Weight:** 59.88 Lbs.  
**Number of Users:** 2

**1/2 HEX VINYL DECK ASSEMBLY*****5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

***PlayArmour Deck / Platform - 12 ga***

Shall be an all welded assembly fabricated of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)



\* See Note

**Component Number:** ZZPM0618  
**Specification Rev:** PA706  
**Component Weight:** 143.41 Lbs.  
**Number of Users:** 6

**LONG VINYL DECK ASSEMBLY*****5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

***PlayArmour Deck / Platform - 12 ga***

Shall be an all welded assembly fabricated of 12 gauge hot rolled,

**ZZPM0629**

pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)

\* See Note

**Component Number:** ZZPM0629  
**Specification Rev:** PA704  
**Component Weight:** 207.39 Lbs.  
**Number of Users:** 7

## **TRANSFER STATION (48in DECK)**

### ***Step Support Leg***

Shall be fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; and .188 in. hot rolled flat steel. (See Tubing.) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### ***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

### ***Protective Barrier - Coped***

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge and 1.315 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing.) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

### ***Grabbit***

Shall be an all welded assembly fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and .188 in. zinc plated, hot rolled, pickled and oiled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### ***PlayArmour® Transfer Deck - sm holes***

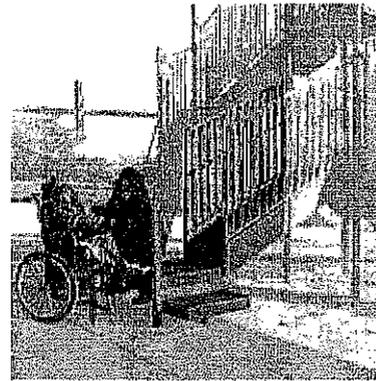
Shall be an all welded assembly die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .344 in. diameter perforated holes. Entire deck weldment shall have a protective coating of PlayArmour®. (See PlayArmour® Finish)

### ***PlayArmour® Perf. Stair / Accessible Stair***

Shall be an all welded assembly fabricated of 14 gauge hot rolled, pickled, and oiled flat steel and 11 gauge hot rolled, pickled and oiled flat steel. Stair surface shall have .34 in. (9 mm) perforated holes. Entire stair assembly shall have a protective coating of PlayArmour®. (See PlayArmour® Finish)

### ***Steel Tubing - 1.029 in. OD, 14 ga.***

## **ZZPM2027**



\* See Note

**Component Number:** ZZPM2027  
**Specification Rev:** PA765  
**Component Weight:** 355.39 Lbs.  
**Number of Users:** 3  
**Amount of Concrete:** 0.09 Yrds.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**ONE PIECE 360 DEGREE PLASTIC SPIRAL SLIDE**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Slide Gate**

Shall be an all welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing and 14 gauge hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating (See Superdurable Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

**Barrier Gate**

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; .25 in. Hot rolled, pickled and oiled flat steel and 8 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Exit Support Post - 3.5 in. w/plate**

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing; .25 in. hot rolled flat steel and 11 gauge zinc plated steel. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

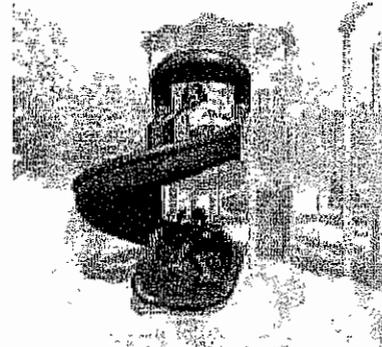
**5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Spiral Slide & Canopy - plastic**

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Cross-sectional design shall be .25 in. (6 mm) nominal thickness, double wall construction with molded-in longitudinal ribs and textured outside surfaces. Spiral slide shall have a minimum side rail height of 15.5" (394 mm). Shall have a canopy designed to channel the user into a sitting position for slide entry.

**ZZPM2736**



\* See Note

<b>Component Number:</b>	<b>ZZPM2736</b>
<b>Specification Rev:</b>	<b>ECN593</b>
<b>Component Weight:</b>	<b>906.38 Lbs.</b>
<b>Number of Users:</b>	<b>3</b>
<b>Amount of Concrete:</b>	<b>0.19 Yrds.</b>

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**ONE PIECE 360 DEGREE PLASTIC SPIRAL SLIDE**

**ZZPM2736**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.



\* See Note

**Slide Gate**

Shall be an all welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing and 14 gauge hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating (See Superdurable Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

<b>Component Number:</b>	<b>ZZPM2736</b>
<b>Specification Rev:</b>	<b>ECN593</b>
<b>Component Weight:</b>	<b>906.38 Lbs.</b>
<b>Number of Users:</b>	<b>3</b>
<b>Amount of Concrete:</b>	<b>0.19 Yrds.</b>

**Barrier Gate**

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; .25 in. Hot rolled, pickled and oiled flat steel and 8 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Exit Support Post - 3.5 in. w/plate**

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing; .25 in. hot rolled flat steel and 11 gauge zinc plated steel. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Spiral Slide & Canopy - plastic**

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Cross-sectional design shall be .25 in. (6 mm) nominal thickness, double wall construction with molded-in longitudinal ribs and textured outside surfaces. Spiral slide shall have a minimum side rail height of 15.5" (394 mm). Shall have a canopy designed to channel the user into a sitting position for slide entry.

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 14 ga.**

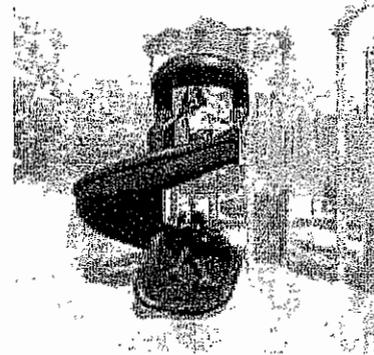
Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**ONE PIECE 360 DEGREE PLASTIC SPIRAL SLIDE**

**ZZPM2736**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.



\* See Note

**Slide Gate**

Shall be an all welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing and 14 gauge hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating (See Superdurable Polyester Powder Coat Finish) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tubing weld connections are not acceptable.

<b>Component Number:</b>	<b>ZZPM2736</b>
<b>Specification Rev:</b>	<b>ECN593</b>
<b>Component Weight:</b>	<b>906.38 Lbs.</b>
<b>Number of Users:</b>	<b>3</b>
<b>Amount of Concrete:</b>	<b>0.19 Yrds.</b>

**Barrier Gate**

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; .25 in. Hot rolled, pickled and oiled flat steel and 8 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Exit Support Post - 3.5 in. w/plate**

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing; .25 in. hot rolled flat steel and 11 gauge zinc plated steel. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**5 in. Support Post**

Shall be fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Spiral Slide & Canopy - plastic**

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Cross-sectional design shall be .25 in. (6 mm) nominal thickness, double wall construction with molded-in longitudinal ribs and textured outside surfaces. Spiral slide shall have a minimum side rail height of 15.5" (394 mm). Shall have a canopy designed to channel the user into a sitting position for slide entry.

Entrance platform design that allows full view of users at the slide exit region.

***PlayArmour Deck / Platform - 12 ga***

Shall be an all welded assembly fabricated of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface and sides shall be die formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Deck surface shall have .34 in. (9mm) diameter perforated holes. Entire weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)

***Steel Tubing - 1.029 in. OD, 14 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

***Steel Tubing - 1.315 in. OD, 14 ga.***

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

***Steel Tubing - 3.5 in. OD, 13 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

***Steel Tubing - 5 in. OD, 11 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**GLIDE SLIDE (48in DECK)**

***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

***Barrier - PM w/inserts & tabs***

Shall be an all welded assembly fabricated of 1.315 in. Outside diameter, 14 gauge galvanized steel tubing and 7 gauge hot rolled, pickled and oiled flat steel. (See Tubing) Shall have factory installed crimped threaded inserts. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

***Exit Support Post - 3.5 in.***

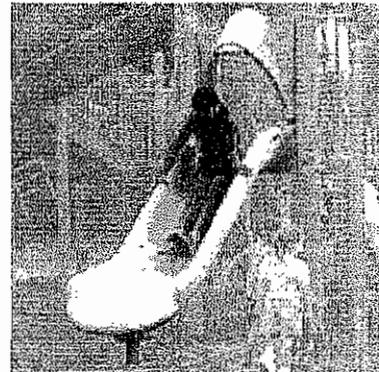
Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

***Glide Slide***

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

***Glide Slide Canopy***

**ZZPM3126**



\* See Note

<b>Component Number:</b>	<b>ZZPM3126</b>
<b>Specification Rev:</b>	<b>ECN1508</b>
<b>Component Weight:</b>	<b>131.39 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.03 Yrds.</b>

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Shall have molded in threaded inserts, and 1.315 in. outside diameter, 14 gauge galvanized steel tubing color matched to the plastic. Tubing shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 3.5 in. OD, 13 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**SLITHER SLIDE ENTRY/EXIT**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Barrier - PM w/inserts & tabs**

Shall be an all welded assembly fabricated of 1.315 in. Outside diameter, 14 gauge galvanized steel tubing and 7 gauge hot rolled, pickled and oiled flat steel. (See Tubing) Shall have factory installed crimped threaded inserts. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Exit Support Post - 3.5 in.**

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

**Rotomolded Slide**

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

**Glide Slide Canopy**

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Shall have molded in threaded inserts, and 1.315 in. outside diameter, 14 gauge galvanized steel tubing color matched to the plastic. Tubing shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**ZZPM3136**



\* See Note

<b>Component Number:</b>	<b>ZZPM3136</b>
<b>Specification Rev:</b>	<b>ECN1508</b>
<b>Component Weight:</b>	<b>99.72 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>
<b>Amount of Concrete:</b>	<b>0.03 Yrds.</b>

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Shall have molded in threaded inserts, and 1.315 in. outside diameter, 14 gauge galvanized steel tubing color matched to the plastic. Tubing shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 3.5 in. OD, 13 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**SLITHER SLIDE ENTRY/EXIT**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Barrier - PM w/inserts & tabs**

Shall be an all welded assembly fabricated of 1.315 in. Outside diameter, 14 gauge galvanized steel tubing and 7 gauge hot rolled, pickled and oiled flat steel. (See Tubing) Shall have factory installed crimped threaded inserts. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Exit Support Post - 3.5 in.**

Shall be an all welded assembly fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing and 11 gauge zinc plated hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-36,

**Rotomolded Slide**

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

**Glide Slide Canopy**

Shall be rotationally molded from Exxon CP-812 polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable. Shall have molded in threaded inserts, and 1.315 in. outside diameter, 14 gauge galvanized steel tubing color matched to the plastic. Tubing shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**ZZPM3136**



\* See Note

<b>Component Number:</b>	<b>ZZPM3136</b>
<b>Specification Rev:</b>	<b>ECN1508</b>
<b>Component Weight:</b>	<b>99.72 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>
<b>Amount of Concrete:</b>	<b>0.03 Yrds.</b>

**Steel Tubing - 3.5 in. OD, 13 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**90 DEGREE HORIZONTAL LOOP LADDER****5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**T Connector Clamp**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Support Rod**

Shall be fabricated of 1.315 in. outside diameter, 12 gauge galvanized steel tubing (See Tubing). ASTM Specifications: A-90, B-117, and E-8. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Loop Ladder**

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; and 3.5 in. outside diameter, 13 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Steel Tubing - 1.029 in. OD, 14 ga.**

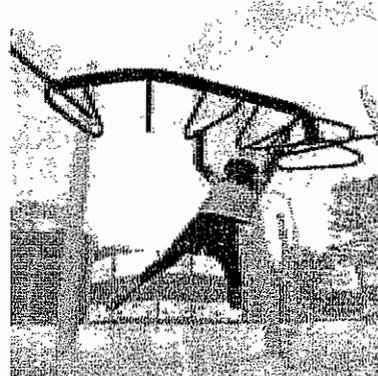
Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 12 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 3.5 in. OD, 13 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**ZZPM5850**

\* See Note

<b>Component Number:</b>	<b>ZZPM5850</b>
<b>Specification Rev:</b>	<b>ECN268</b>
<b>Component Weight:</b>	<b>72.65 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>

**OVERHEAD EVENT ACCESS LADDER (24in DECK)****ZZPM5960****5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt

though" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

#### **Access Ladder**

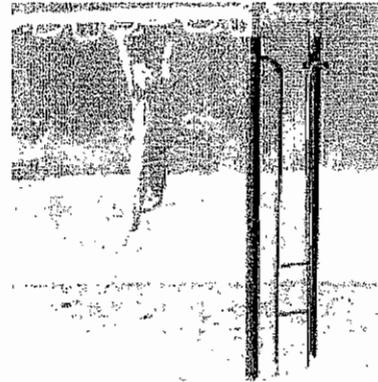
Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; and 1.029 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

#### **Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.



\* See Note

<b>Component Number:</b>	<b>ZZPM5960</b>
<b>Specification Rev:</b>	<b>ECN556</b>
<b>Component Weight:</b>	<b>26.95 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.06 Yrds.</b>

## **FLIP FLOP**

#### **Seat - Cast Alum**

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601

#### **5 in. Cast Clamp Band**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

#### **Torsion Housing - 4" hd**

Shall be an all welded assembly fabricated of .25 in. hot rolled flat steel; 11 gauge hot rolled, pickled and oiled flat steel; and 4 in. x 4 in. x .25 in. square galvanized steel tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Frame - Flip Flop**

Shall be an all welded assembly of 1.029 in. outside diameter, 14 gauge galvanized steel tubing; 1.66 in. outside diameter x .191 wall steel tubing, 2.875 in. outside diameter, 8 gauge galvanized steel tubing; 4 in. outside diameter, 8 gauge galvanized steel tubing; 2 in. x 2 in., 7 gauge square galvanized steel tubing; .1875 in. hot rolled pickled and oiled flat steel plate; .25 in. hot rolled pickled and oiled flat steel plate; and .5 in. hot rolled pickled and oiled flat steel plate, and 1006 cold rolled steel. (See Tubing) Entire assembly shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

#### **Urethane Bumper**

Shall be fabricated of black santoprene 101. Durometer 80A.

#### **Bushing - nylon**

Shall be injection molded black nylon. Grade Capron 8202

## **ZZPM6906**



\* See Note

<b>Component Number:</b>	<b>ZZPM6906</b>
<b>Specification Rev:</b>	<b>ECN884</b>
<b>Component Weight:</b>	<b>266.81 Lbs.</b>
<b>Number of Users:</b>	<b>4</b>

**Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.66 in. OD x 191 wall**

Tensile strength shall be 58,000 psi. Yield strength shall be 46,000 psi.

**Steel Tubing - 2 in. x 2 in., 7 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 2.875 in. O.D., 8 ga.**

Minimum yield strength shall be 50,000 psi. with a maximum tensile strength at least 13% higher. Material ASTM Designation: A1011/A 1011/M Ola Commerical Steel CS Type B Mn content 0.6% max. Carbon Content (0.07 to 0.11) % vs. (0.02 to 0.15) % per ASTM Specs.

**Steel Tubing - 4 in. OD, 8 ga.**

Tensile strength shall be 48,000 psi. Yield strength shall be 45,000 psi.

**Steel Tubing - 4 in. x 4 in. x .25 in.**

A500 Grade B Black Steel Yield strength shall be 65,000 psi. Tensile strength shall be 78,000 psi.

**CLIFF HANGER (72in DECK)*****Handhold - Climbing Wall***

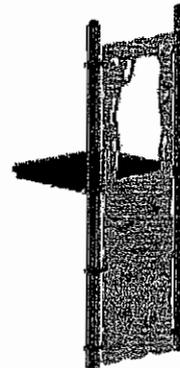
Hand grips shall be manufactured of polyurethane and are uniquely textured for slip resistance. Hand grips must be also formulated to withstand extreme impacts and be highly resistant to ultraviolet light and chemicals. Hand grip material must be manufactured from materials having a proven record in the climbing industry. Each hand grip shall be recessed into the climbing structure with a shape unique to the individual hand grip. Hand grips not recessed can rotate or turn and are not acceptable. Hand grips shall have a Lifetime Warranty. Anything other than a Lifetime Warranty is not acceptable.

***Spring Rider Handle***

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

***Panel Connector*****ZZPM6976**

\* See Note

<b>Component Number:</b>	<b>ZZPM6976</b>
<b>Specification Rev:</b>	<b>ECN1119</b>
<b>Component Weight:</b>	<b>113.05 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Plastic Panel - .75 in.**

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

**SILO CLIMBER (48in DECK)**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Barrier Gate**

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; .25 in. Hot rolled, pickled and oiled flat steel and 8 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Silo Climber**

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing; 11 gauge hot rolled flat steel and 8 gauge galvanized hot rolled steel. (See Tubing) Finished with a baked on polyester powder coating. (See SuperDurable Polyester Powder Coat Finish) ASTM Specifications: A-135, A-500 and E-8.

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 1.029 in. OD, 14 ga.**

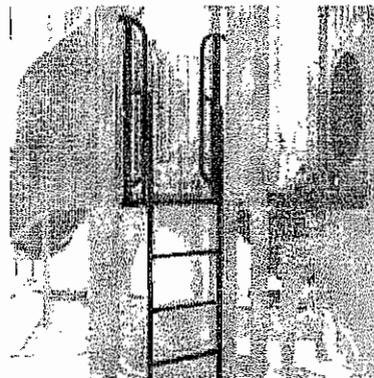
Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**SLIDING POLE (48in DECK)**

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an

**ZZPM7950**



\* See Note

<b>Component Number:</b>	<b>ZZPM7950</b>
<b>Specification Rev:</b>	<b>ECN485</b>
<b>Component Weight:</b>	<b>76.59 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>
<b>Amount of Concrete:</b>	<b>0.07 Yrds.</b>

**ZZPM8070**

S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

#### ***Climber Connector***

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### ***Arch Entry Barrier / Pipe Wall Barrier***

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .188 in. hot rolled, pickled and oiled flat steel. Shall be finished with a baked-on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

#### ***Sliding Pole Surface Mount***

Shall be fabricated of 1.9 in. outside diameter, 13 gauge galvanized steel tubing and .25 in. hot rolled flat steel. (See Tubing) ASTM: A-135, E-8 and A-500. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### ***Steel Tubing - 1.029 in. OD, 14 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

#### ***Steel Tubing - 1.315 in. OD, 14 ga.***

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

#### ***Steel Tubing - 1.9 in. OD, 13 ga.***

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

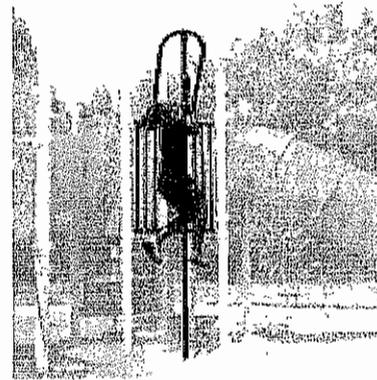
### **SLIDING POLE (72in DECK)**

#### ***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

#### ***Climber Connector***

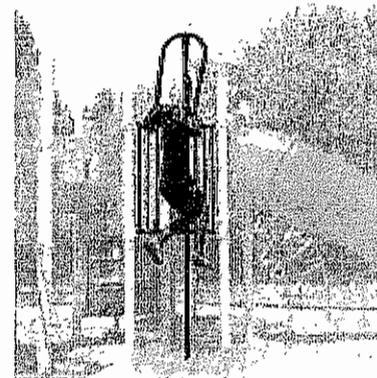
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)



\* See Note

<b>Component Number:</b>	<b>ZZPM8070</b>
<b>Specification Rev:</b>	<b>ECN1359</b>
<b>Component Weight:</b>	<b>68.41 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.03 Yrds.</b>

### **ZZPM8090**



\* See Note

<b>Component Number:</b>	<b>ZZPM8090</b>
<b>Specification Rev:</b>	<b>ECN1359</b>
<b>Component Weight:</b>	<b>71.61 Lbs.</b>

**Arch Entry Barrier / Pipe Wall Barrier**

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .188 in. hot rolled, pickled and oiled flat steel. Shall be finished with a baked-on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

**Number of Users:** 1  
**Amount of Concrete:** 0.03 Yrds.

**Sliding Pole Surface Mount**

Shall be fabricated of 1.9 in. outside diameter, 13 gauge galvanized steel tubing and .25 in. hot rolled flat steel. (See Tubing) ASTM: A-135, E-8 and A-500. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 1.9 in. OD, 13 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**SPIRAL CLIMBER (72in DECK)****5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Climber Connector**

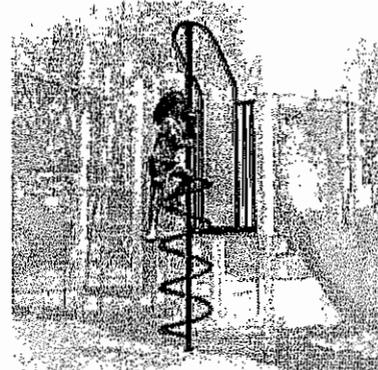
Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Spiral Climber**

Shall be an all welded assembly fabricated of 1.9 in. outside diameter, 13 gauge galvanized steel tubing; and 1.315 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing) ASTM Specifications: A-135, E-8 and A-500. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Arch Entry Barrier / Pipe Wall Barrier**

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .188 in. hot rolled, pickled and oiled flat steel. Shall be finished with a baked-on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

**Spacer - 13 ga.\*****ZZPM8170**

\* See Note

**Component Number:** ZZPM8170  
**Specification Rev:** ECN486  
**Component Weight:** 110.29 Lbs.  
**Number of Users:** 2  
**Amount of Concrete:** 0.04 Yrds.

Shall be fabricated of 1.9 in. outside diameter, 13 gauge galvanized steel tubing (See Tubing). ASTM Specifications: A-135, E-8 and A-500. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 1.9 in. OD, 13 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

## **TREE CLIMBER (48in DECK)**

### **5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

### **Climber Connector**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### **Tree Climber**

Shall be fabricated of 1.9 in. outside diameter, 13 gauge galvanized steel tubing and 1.029 in. outside diameter, 14 gauge galvanized steel tubing (See Tubing). ASTM: A-135, E-8 and A-500. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### **Arch Entry Barrier / Pipe Wall Barrier**

Shall be an all-welded assembly fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. outside diameter, 14 gauge galvanized steel tubing and .188 in. hot rolled, pickled and oiled flat steel. Shall be finished with a baked-on polyester powder coat. (See Superdurable Polyester Powder Coat Finish)

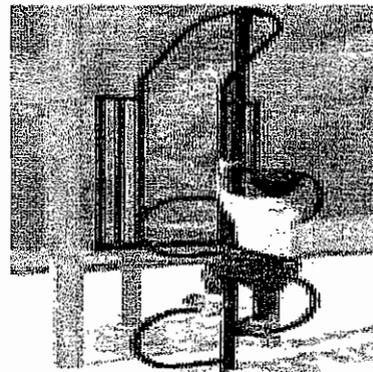
### **Spacer - 13 ga.\***

Shall be fabricated of 1.9 in. outside diameter, 13 gauge galvanized steel tubing (See Tubing). ASTM Specifications: A-135, E-8 and A-500. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### **Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

## **ZZPM8190**



\* See Note

<b>Component Number:</b>	<b>ZZPM8190</b>
<b>Specification Rev:</b>	<b>ECN489</b>
<b>Component Weight:</b>	<b>85.79 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>
<b>Amount of Concrete:</b>	<b>0.04 Yrds.</b>

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 1.9 in. OD, 13 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**DECK TO DECK ACCESSIBLE CLIMBER****Panel - Sheet Plastic - Access**

Containment panel shall be fabricated from .75 in. high density colored polyethylene and machined to size and shape. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-790 (Flexural Modulus), D-1693 (Environmental Stress Crack Resistance)

**Rotomolded Accessible Climber Base (Steps)**

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable

**5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Panel Connector**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Accessible Climber Pipe Wall Barrier**

An all-welded assembly fabricated of 1.125 in. x 1.75 in. oval, 14 gauge steel tubing (side rails), .188 in. x 8 gauge galvanized steel plate with slots (deck mounting plates), and 1.029 in. outside diameter, 14 gauge galvanized steel tubing (rungs) (See Tubing). Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Contained Accessible Climber Base Frame**

An all-welded assembly fabricated of 2 in. x 3 in. x 11 gauge galvanized rectangular steel tubing (side rails), 4" x 28" x 8 gauge galvanized steel plate (deck mounting plates), and 2 in. x 2 in. x .563 in. steel plate with a 1 in. slot (climber base mounting tabs). Finished with a baked-on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**ZZPM8230**

\* See Note

<b>Component Number:</b>	<b>ZZPM8230</b>
<b>Specification Rev:</b>	<b>ECN258</b>
<b>Component Weight:</b>	<b>283.47 Lbs.</b>
<b>Number of Users:</b>	<b>3</b>

**Steel Tubing - 1.125 in. X 1.75 in. Oval, 15 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**VINYL COATED STAIRS (24in DECK)****5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Barrier Gate**

Shall be fabricated of 1.315 in. outside diameter, 14 gauge galvanized steel tubing; 1.029 in. Outside diameter, 14 gauge galvanized steel tubing; .25 in. Hot rolled, pickled and oiled flat steel and 8 gauge galvanized hot rolled steel. (See Tubing) All tube to tube weld connections shall be coped before welding to provide a clean look and the strongest joint possible. Flattened or partially flattened tube weld connections are not acceptable. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**Stair / Ladder Footing Leg**

Shall be fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing.) Finished with a polyester powder coating. (See SuperDurable Polyester Powder Coat Finish).

**PlayArmour® Perf. Stair / Accessible Stair**

Shall be an all welded assembly fabricated of 14 gauge hot rolled, pickled, and oiled flat steel and 11 gauge hot rolled, pickled and oiled flat steel. Stair surface shall have .34 in. (9 mm) perforated holes. Entire stair assembly shall have a protective coating of PlayArmour®. (See PlayArmour® Finish)

**Steel Tubing - 1.029 in. OD, 14 ga.**

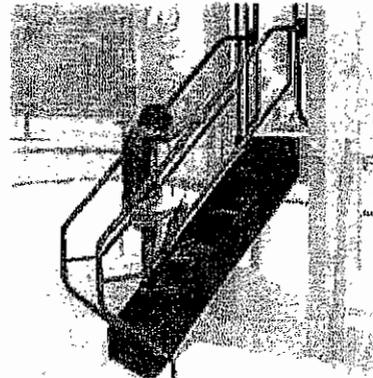
Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.315 in. OD, 14 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**24in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)****5 in. Die Cast Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half

**ZZPM9157**

\* See Note

<b>Component Number:</b>	<b>ZZPM9157</b>
<b>Specification Rev:</b>	<b>PA739</b>
<b>Component Weight:</b>	<b>95.59 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.06 Yrds.</b>

**ZZPM9170**

clamps are not acceptable due to poor weatherability and inherent rust problem.

#### ***Stair / Ladder Handrail***

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing and 1.315 in. outside diameter, 14 gauge galvanized steel tubing. (See Tubing) Shall be finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

#### ***PlayArmour® Perf. Stair / Accessible Stair***

Shall be an all welded assembly fabricated of 14 gauge hot rolled, pickled, and oiled flat steel and 11 gauge hot rolled, pickled and oiled flat steel. Stair surface shall have .34 in. (9 mm) perforated holes. Entire stair assembly shall have a protective coating of PlayArmour®. (See PlayArmour® Finish)

#### ***Angle Clip / Plank***

Shall be fabricated of 12 gauge hot rolled, pickled, and oiled flat steel. Angle clip / plank shall have a protective PlayArmour coating. (See PlayArmour Finish)

#### ***Steel Tubing - 1.029 in. OD, 14 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

#### ***Steel Tubing - 1.315 in. OD, 14 ga.***

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.



\* See Note

<b>Component Number:</b>	<b>ZZPM9170</b>
<b>Specification Rev:</b>	<b>PA756</b>
<b>Component Weight:</b>	<b>220.88 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>

### **CARNIVAL ROOF - SMALL PERF (SQUARE)**

#### ***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

#### ***Roof Panel (small perf)***

Shall be fabricated from 14 gauge hot rolled flat steel. Panel shall have 0.25 in. O.D. perforated holes. Panel shall be free of sharp edges. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

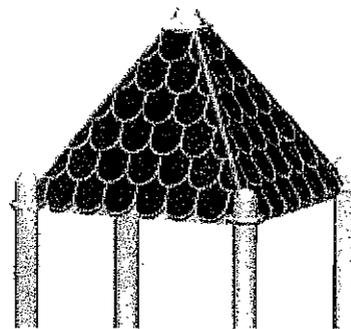
#### ***Frame - Roof***

Shall be an all welded assembly fabricated from 10 gauge hot rolled flat steel and 14 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

#### ***Frame - End***

Shall be fabricated from 14 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester

### **ZZPM9828**



\* See Note

<b>Component Number:</b>	<b>ZZPM9828</b>
<b>Specification Rev:</b>	<b>PA0994</b>
<b>Component Weight:</b>	<b>133.25 Lbs.</b>

Powder Coat Finish)

### **CARNIVAL ROOF SQUARE CAP**

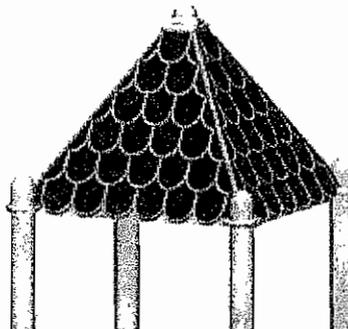
#### ***Casting - Roof Cap***

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

#### ***Plate - 14 gauge***

Shall be fabricated from 14 gauge galvanized hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

### **ZZPM9856**



\* See Note

**Component Number:** ZZPM9856  
**Specification Rev:** PA0994  
**Component Weight:** 5.1 Lbs.

### **CARNIVAL ROOF - SMALL PERF (EXTENDED HEX)**

#### ***5 in. Die Cast Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating. (See Superdurable Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

#### ***Cap - Ridge***

Shall be fabricated 14 gauge galvanized hot rolled flat steel. Finished with a baked on polyester powder coating. (See Polyester Powder Coat Finish)

#### ***Roof Panel (small perf)***

Shall be fabricated from 14 gauge hot rolled flat steel. Panel shall have 0.25 in. O.D. perforated holes. Panel shall be free of sharp edges. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

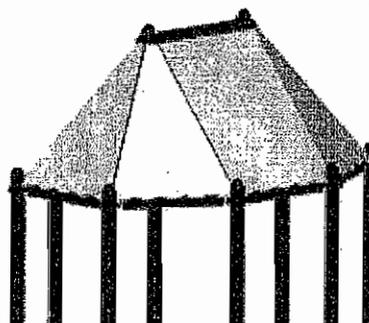
#### ***Frame - Roof***

Shall be an all welded assembly fabricated from 10 gauge hot rolled flat steel and 14 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

#### ***Frame - End***

Shall be fabricated from 14 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

### **ZZPM9896**



\* See Note

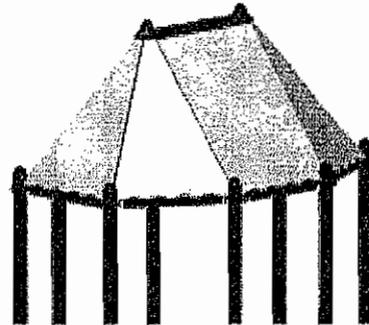
**Component Number:** ZZPM9896  
**Specification Rev:** PA1010  
**Component Weight:** 429.75 Lbs.

**CARNIVAL ROOF EXTENDED HEX CAP*****Casting - Roof Cap***

Cast of regular 319 (319.0-F) aluminum. Ultimate tensile strength shall be 27 ksi. Yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601.

***Plate - 14 gauge***

Shall be fabricated from 14 gauge galvanized hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**ZZPM9906**

\* See Note

**Component Number:** ZZPM9906  
**Specification Rev:** PA1010  
**Component Weight:** 6.67 Lbs.

**48in DECK STEEL FILLER POST*****3.5 in. Steel Filler Post***

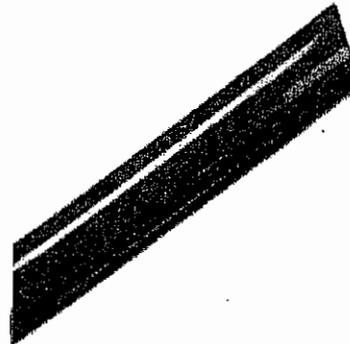
Shall be fabricated of 3.5 in. outside diameter, 13 gauge galvanized steel tubing, and .188 in. hot rolled flat steel plate. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) (See PrismCoat / Polyester Powder Coat Finish)

***Deck Filler Plate - steel***

Shall be fabricated of 7 in. diameter, 11 gauge galvanized steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***Steel Tubing - 3.5 in. OD, 13 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**ZZUN0870**

\* See Note

**Component Number:** ZZUN0870  
**Specification Rev:** PA428  
**Component Weight:** 26.21 Lbs.  
**Amount of Concrete:** 0.111 Yrds.

**APPROACH STEP FOR TRANSFER STATION*****Kickplate / Nose Bracket***

Shall be fabricated from a single sheet of 14 gauge galvanized sheet steel. Shall have a minimum G60 galvanizing and regular spangle commercial quality. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***2.375 in. Support Post with Plate***

Shall be fabricated of 2.375 in. outside diameter, 12 gauge galvanized steel tubing; and .125 in. zinc plated, hot rolled flat steel. (See Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

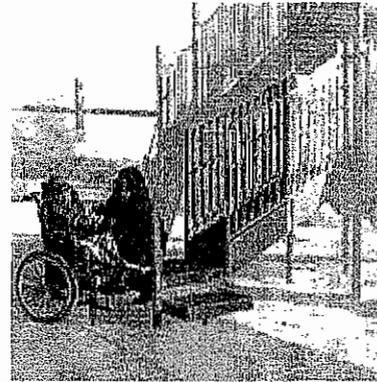
**ZZUN2019**

**Approach Step**

Approach step shall be an all-welded assembly fabricated of 11 gauge and 14 gauge hot rolled, pickled and oiled flat steel. Approach step surface and sides shall be die-formed from a single sheet of 12 gauge hot rolled, pickled and oiled flat steel. Approach step surface shall have .344 in. (8 mm) diameter perforated holes. Entire deck weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)

**Steel Tubing - 2.375 in. OD, 12 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.



\* See Note

**Component Number:** ZZUN2019  
**Specification Rev:** PA769  
**Component Weight:** 40.42 Lbs.  
**Number of Users:** 1  
**Amount of Concrete:** 0.04 Yrds.

**VINYL DECK TO DECK CONNECTION KIT**

**Hardware Reference**

See General Hardware Spec .

**ZZUN2290**



\* See Note

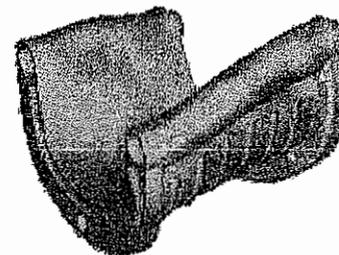
**Component Number:** ZZUN2290  
**Specification Rev:** ECN176  
**Component Weight:** 0.28 Lbs.

**SLITHER SLIDE (RIGHT SECTION)**

**Rotomolded Slide**

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

**ZZUN3157**

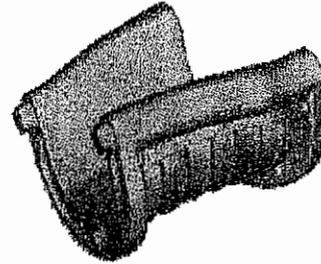


\* See Note

**Component Number:** ZZUN3157  
**Specification Rev:** PA1019  
**Component Weight:** 21.14 Lbs.

**SLITHER SLIDE (LEFT SECTION)*****Rotomolded Slide***

Shall be rotationally molded from linear low density polyethylene. (See Rotationally Molded Plastic Parts) Dry-blended or molded-in color resins are not acceptable.

**ZZUN3158**

\* See Note

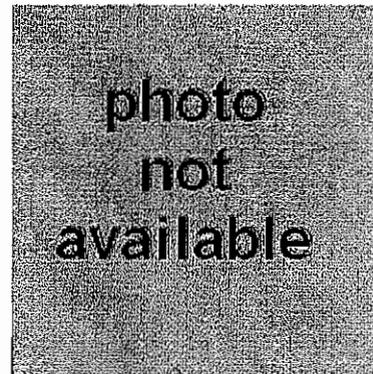
**Component Number:** ZZUN3158  
**Specification Rev:** PA1019  
**Component Weight:** 21.14 Lbs.

**SLITHER SLIDE SUPPORT LEG 3ft-6in*****Casting / Almag 35***

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***Slide Support Post (w/o plate)***

Shall be fabricated from 2.375 in. Outside diameter, 12 gauge galvanized steel tubing. (See Tubing) Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**ZZUN3169**

\* See Note

**Component Number:** ZZUN3169  
**Specification Rev:** PA1019  
**Component Weight:** 18.44 Lbs.  
**Amount of Concrete:** 0.03 Yrds.

**SURFACING WARNING LABEL KIT*****Surfacing Warning Label***

Shall be a pressure sensitive adhesive white vinyl label laminated with clear mylar for weather resistance. Shall contain the following text: Warning! Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls. Shall be tamper resistant to deter removal.

**ZZUN9910**

photo  
not  
available

\* See Note

**Component Number:** ZZUN9910  
**Specification Rev:** ECN774  
**Component Weight:** 0.04 Lbs.

## **PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL**

### ***Surfacing Warning Label***

Shall be a pressure sensitive adhesive white vinyl label laminated with clear mylar for weather resistance. Shall contain the following text: Warning! Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls. Shall be tamper resistant to deter removal.

### ***CD***

Contains all installation and maintenance information for the ordered equipment. Also contains web links and other pertinent information.

### ***Aerosol Paint***

4.5 oz can of aerosol spray paint matching the component / post color to be used for touch-up purposes.

### ***Aerosol Primer***

4.5 oz can of rust resistant gray primer spray aerosol to be used as a first coat for component touch-up.

### ***Graffiti Remover Towels***

Shall be an container of 12 premoistened towelettes. Ingredients are environmentally safe, biodegradable and VOC compliant. Manufactured by SEI Chemical. Shall be shipped as part of the structure maintenance kit.

### ***Sandpaper - Maint. Kit***

Shall consist of 1 sheet each of 80, 100, and 150 grit sandpaper.

### ***Hardware - Pipe Systems***

Shall be a bag of assorted hardware, hex wrenches and screw driver bits common to most composite playground structures. (See General Hardware Reference)

### ***Maintenance Program Box***

Shall be a 3 piece box shipped to the end user of recreational equipment. Shall contain all appropriate documentation and repair materials. Shall be properly identified with the installation location.

## **ZZUN9930**



\* See Note

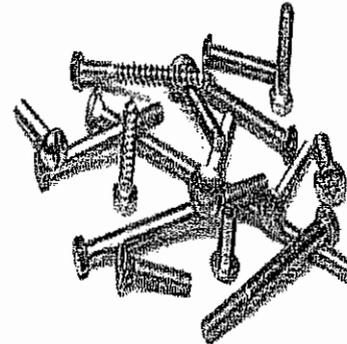
**Component Number:** ZZUN9930  
**Specification Rev:** ECN1125  
**Component Weight:** 6.07 Lbs.

**TOOL AND ADDITIONAL PARTS KIT- W/ AEROSOL*****Aerosol Paint***

4.5 oz can of aerosol spray paint matching the component / post color to be used for touch-up purposes.

***Hardware - Pipe Systems***

Shall be a bag of assorted hardware, hex wrenches and screw driver bits common to most composite playground structures. (See General Hardware Reference)

**ZZUN9990**

\* See Note

**Component Number:** ZZUN9990  
**Specification Rev:** ECN677  
**Component Weight:** 3.46 Lbs.

**BELT SEAT W/ VINYL CHAIN TO 8ft TOP RAIL*****PlayArmour Chain 4/0***

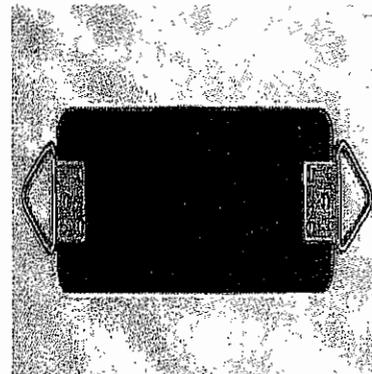
Shall be 4/0 welded link chain coated with PlayArmour. The chain links are zinc coated low carbon 1008 steel. PlayArmour coating shall have a thickness of 60-100 mils. (See PlayArmour Finish) The Rockwell would be on the B scale @ 90. The working load limit for this chain is 670 lbs.

***Swing Seat - belt***

Shall be fabricated from .5 in. (13 mm) thick ethylene propylene diene monomer with a T-301 full hard .020 in. (.51 mm) carbon steel insert. A triangular galvanized steel bracket and plate shall be secured to seat with galvanized rivets for chain attachments. Seat shall be slash-proof.

***Spacer - Aluminum Alloy***

Shall be fabricated of T6061-T6 aluminum alloy. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

**ZZXX0278**

\* See Note

**Component Number:** ZZXX0278  
**Specification Rev:** ECN1566  
**Component Weight:** 10.69 Lbs.  
**Number of Users:** 1

**5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL*****5 in. Arch Post - Alum.***

Shall be an all welded assembly fabricated of 5 in. outside diameter, .125 in. wall extruded 6061-T6 aluminum alloy tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***5 in. Top Rail***

Shall be fabricated of 5 in. outside diameter 11 gauge galvanized steel tubing. (See Tubing). Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**ZZXX0287**

**5 in. Swing Hanger / Band Clamp**

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

**Swing Clevis**

Shall be formed of .313 in. cold rolled steel rod with a hot dipped galvanized finish.

**Steel Tubing - 5 in. OD, 11 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**5 in. Arch Post - Alum.**

Shall be an all welded assembly fabricated of 5 in. outside diameter, .125 in. wall extruded 6061-T6 aluminum alloy tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**5in OD ALUMINUM ARCH TIRE SWING**

**Tire Mounting Strap**

Shall be fabricated of .375 in. outside diameter cold rolled steel. Finished with a zinc coating.

**Swing Tire**

Shall be a 205/75 D15 nylon belted tire. Steel belted tires are not acceptable.

**Backup Washer**

Shall be a 2.5 in. (64mm) outside diameter, steel flat washer

**5 in. Arch Post - Alum.**

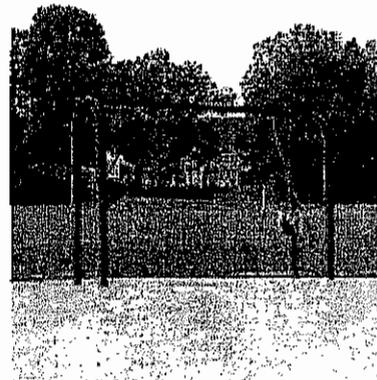
Shall be an all welded assembly fabricated of 5 in. outside diameter, .125 in. wall extruded 6061-T6 aluminum alloy tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Tire Swing Top Rail**

Shall be an all welded assembly fabricated of 5 in. outside diameter, 11 gauge galvanized steel tubing; and 8 gauge galvanized flat steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Tire Swing Swivel Assembly**

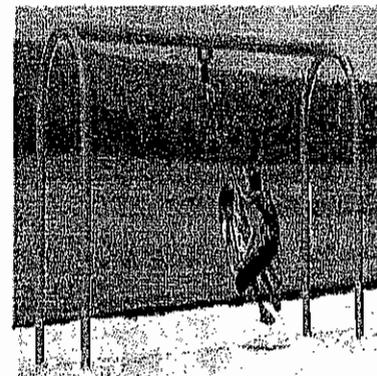
Shall be a factory assembly which shall be fabricated of the following materials: a steel universal joint, neoprene bellows, oilite bronze bushings, a grease fitting, hardware (see Hardware), a tire swing swivel pin fabricated of grade 5 forged steel, and a swivel hub weldment. The swivel hub weldment shall be an all welded assembly



\* See Note

<b>Component Number:</b>	<b>ZZXX0287</b>
<b>Specification Rev:</b>	<b>ECN597</b>
<b>Component Weight:</b>	<b>224.59 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.518 Yrds.</b>

**ZZXX0298**



\* See Note

<b>Component Number:</b>	<b>ZZXX0298</b>
<b>Specification Rev:</b>	<b>ECN849</b>
<b>Component Weight:</b>	<b>254.15 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.5 Yrds.</b>

fabricated of .375 in. round cold rolled steel and 2 in. diameter, 1215 round cold rolled steel. Shall be greased at factory after assembly process.

***PlayArmour Chain 4/0***

Shall be 4/0 welded link chain coated with PlayArmour. The chain links are zinc coated low carbon 1008 steel. PlayArmour coating shall have a thickness of 60-100 mils. (See PlayArmour Finish) The Rockwell would be on the B scale @ 90. The working load limit for this chain is 670 lbs.

***Steel Tubing - 5 in. OD, 11 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

***Aluminum Tubing - 5 in. OD, .125 in. W***

Shall be 6061-T6 alloy tubing having a Tensile strength of 38,000 psi. and a Yield strength of 35,000 psi. (See Tubing)

**5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY ZZXX0370**

***5 in. Arch Post - Alum.***

Shall be an all welded assembly fabricated of 5 in. outside diameter, .125 in. wall extruded 6061-T6 aluminum alloy tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***5 in. Top Rail***

Shall be fabricated of 5 in. outside diameter 11 gauge galvanized steel tubing. (See Tubing). Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***5 in. Swing Hanger / Band Clamp***

Shall be die cast of high strength 380 aluminum alloy. Clamps shall be provided as hinged assemblies to facilitate structure assembly and an S-lap design to eliminate string entanglement. (See Die Cast Clamps) Finished with a shot blast and a powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) Because a hinged clamp design provides the easiest and most flexible installation, clamps which incorporate a slip-through design or clamping devices that use a "bolt through" design are not acceptable. The use of two (2) piece steel half clamps are not acceptable due to poor weatherability and inherent rust problem.

***Swing Clevis***

Shall be formed of .313 in. cold rolled steel rod with a hot dipped galvanized finish.

***Steel Tubing - 5 in. OD, 11 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

***5 in. Arch Post - Alum.***

Shall be an all welded assembly fabricated of 5 in. outside diameter, .125 in. wall extruded 6061-T6 aluminum alloy tubing. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)



\* See Note

<b>Component Number:</b>	<b>ZZXX0370</b>
<b>Specification Rev:</b>	<b>ECN597</b>
<b>Component Weight:</b>	<b>156.19 Lbs.</b>
<b>Amount of Concrete:</b>	<b>0.259 Yrds.</b>

**ACCESSIBLE E-Z DIGGER****ZZXX0421*****E-Z Digger Center Post***

Shall be an all welded assembly fabricated of 2.375 in. outside diameter, 10 gauge galvanized steel tubing, and 2.5 in. round cold rolled steel (See Tubing). Finished with a baked on powder coating. (See Superdurable Polyester Powder Coat Finish)

***E-Z Digger Bucket***

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See Superdurable Polyester Powder Coat Finish)

***E-Z Digger Handle Support Frame (Accessible)***

Shall be an all welded assembly fabricated of 2.875 in. outside diameter, 8 gauge galvanized steel tubing, 2 in. round cold rolled steel, 2 in. outside diameter x 1.5 in. inside diameter D.O.M. steel tubing (See Tubing), and a 1.5 in. outside diameter x 1.25 in. inside diameter oilite bearing w/ 1.75 in. outside diameter flange. Finished with a baked on polyester powder coating. (See PrismCoat / Polyester Powder Coat Finish)

***E-Z Digger Handle (Right-new)***

Shall be an all welded assembly fabricated of 1.315 in. outside diameter, 12 gauge galvanized steel tubing, 1.375 in. outside diameter x .625 in. inside diameter DOM cold rolled steel, 7gauge hot rolled, pickled and oiled flat steel, and a 1.315 in. cast 319 aluminum pipe cap (See Tubing). Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

***E-Z Digger Handle (Left-new)***

Shall be an all welded assembly fabricated of 1.315 in. outside diameter, 12 gauge galvanized steel tubing, 1.029 in. outside diameter, 14 gauge galvanized steel tubing, 1.375 in. outside diameter x .625 in. inside diameter DOM cold rolled steel, 12 gauge hot rolled, pickled and oiled flat steel, #1018 cold rolled steel, a 3/8 in. inside diameter x 1/2 in. outside diameter oilite steel bearing, and a 1.315 in. cast 319 aluminum pipe cap (See Tubing). Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

***E-Z Digger Bucket Arm w/bearing***

Shall be an all welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing, 1.06 in. round cold rolled steel, #1018 cold rolled steel,(See Tubing), a 0.38 in. inside diameter x 0.5 in. outside diameter oilite bearing, and a 0.5 in. inside diameter oilite bronze bearing. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

***Ball Bearing - 1.5 in. Dia.***

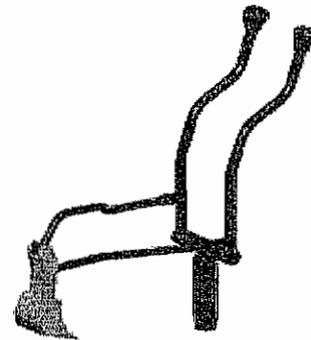
Shall be a 1.5 in. diameter be manufactured from GR200 stainless steel with a polished finish.

***Steel Tubing - 1.029 in. OD, 14 ga.***

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

***Steel Tubing - 1.315 in. OD, 12 ga.***

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.



\* See Note

<b>Component Number:</b>	<b>ZZXX0421</b>
<b>Specification Rev:</b>	<b>ECN1123</b>
<b>Component Weight:</b>	<b>41.38 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.1 Yrds.</b>

**Steel Tubing - 1.9 in. OD, 13 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 2.375 in. OD, 10 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 2.875 in. O.D., 8 ga.**

Minimum yield strength shall be 50,000 psi. with a maximum tensile strength at least 13% higher. Material ASTM Designation: A1011/A 1011/M Ola Commerical Steel CS Type B Mn content 0.6% max. Carbon Content (0.07 to 0.11) % vs. (0.02 to 0.15) % per ASTM Specs.

**SPRING RIDER - DINO RIDER*****Footrest / Gate Adapter***

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***Handhold w/ 12 ga. Plate***

Shall be an all-welded assembly fabricated of 1.029 in. outside diameter, 14 gauge galvanized steel tubing and 12 gauge hot rolled pickled and oiled flat steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***Spring Rider Seat Bracket***

Shall be an all welded assembly fabricated from 11 gauge hot rolled flat steel, and 3/8 in. threaded studs and nuts. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

***Spring Rider Coil Spring***

Shall be a factory assembly fabricated of 20 mm diameter steel rod; wound to a 180 mm center-line diameter. Coil spring wedge shall be fabricated of 100% polyamid 6. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***Spring Rider Coil Spring Clamp***

Shall be fabricated of 10 gauge hot rolled flat steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

***Surfacing Warning Label***

Shall be a pressure sensitive adhesive white vinyl label laminated with clear mylar for weather resistance. Shall contain the following text: Warning! Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls. Shall be tamper resistant to deter removal.

***Plastic Panel - .5 in.***

Shall be fabricated of .50 in. (12 mm) high density sheet polyethylene. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790

**ZZXX0592**

\* See Note

<b>Component Number:</b>	<b>ZZXX0592</b>
<b>Specification Rev:</b>	<b>ECN806</b>
<b>Component Weight:</b>	<b>64.9 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.074 Yrds.</b>

(Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact), D-746 (Brittleness), D-1525 (Vicat Softening Point).

#### **Spring Rider Perf. Seat**

Shall be an all welded assembly fabricated of 14 gauge hot rolled flat steel, and threaded nuts. Seat top surface shall be perforated with .625 in. holes. Entire weldment shall have a protective coating of PlayArmour. (See PlayArmour Finish)

#### **Steel Tubing - 1.029 in. OD, 14 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

### **DUO SEE-SAW WITH BACKREST**

### **ZZXX0596**

#### **Spring Wedge (Almag)**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Casting / Almag 35**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. Ultimate tensile strength shall be 40 ksi. Yield strength shall be 21 ksi. Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Handle - Almag 35**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Bracket - 12 ga.**

Shall be fabricated of 12 gauge hot rolled flat steel. Finished with a baked on polyester powder coating. (See Superdurable Polyester Powder Coat Finish)

#### **Frame - Anchor - See-Saw**

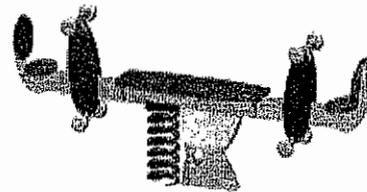
Shall be an all welded assembly fabricated of 2 in. x 4 in. x 11 gauge galvanized rectangular steel tubing, 1.66 in. O.D. x 13 gauge galvanized steel tubing, 1.75 in. O.D. x 5/16 in. thick D.O.M. seamless steel tubing, 10 gauge galvanized hot rolled flat steel, .188 in. hot rolled, pickled and oiled flat steel, and .25 in. hot rolled, pickled and oiled flat steel. (See Steel Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Frame - Beam - See-Saw**

Shall be an all welded assembly fabricated of 2 in. x 4 in. x 11 gauge galvanized rectangular steel tubing, 10 gauge galvanized hot rolled steel plate, and .25 in. hot rolled, pickled and oiled flat steel. (See Steel Tubing) Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

#### **Spring - 400 mm**

Shall be manufactured from stainless steel 20 mm diameter wire. Shall



\* See Note

<b>Component Number:</b>	<b>ZZXX0596</b>
<b>Specification Rev:</b>	<b>ECN1533</b>
<b>Component Weight:</b>	<b>200.61 Lbs.</b>
<b>Number of Users:</b>	<b>2</b>
<b>Amount of Concrete:</b>	<b>0.12 Yrds.</b>

have an outside diameter of 180 mm Coil direction shall be right-handed. Complies to ASTM A-227 / A-227M-90 standard specifications for steel wire, cold drawn for mechanical springs.

**Plate - .188"**

Shall be fabricated from a single sheet of .188" hot rolled, pickled and oiled flat steel. Shall be finished with a baked-on polyester powder coat. (See Powder Coat Finish)

**Plastic Panel - .75 in.**

Shall be fabricated from colored marine grade, .75 in. high density polyethylene and machined. Shall be ultraviolet (UV) stabilized. Meets FDA requirements. ASTM Specifications: D-1238 (Melt Index), D-1505 (Material Density), D-638 (Tensile Strength), D-648 (Heat Distortion Temperature) D-790 (Flexural Modulus), D-1693 and D-2561 (Environmental Stress Crack Resistance), D-2240 (Hardness), D-1822 (Tensile Impact) D-746 (Brittleness), D-1525 (Softening Point).

**Steel Tubing - 1.66 in. OD, 13 ga.**

Tensile strength shall be 75,000 psi. Yield strength shall be 60,000 psi.

**Steel Tubing - 2 in. x 4 in., 11 ga.**

Tensile strength shall be 55,000 psi. Yield strength shall be 50,000 psi.

**Steel Tubing - 1.75 in. O.D. x .313 in. wall**

Tensile strength shall be 64,670 psi. Yield strength shall be 80,910 psi.

**CHIPMUNK WITH COIL SPRING**

**Spring Mate Body**

Shall be cast from Regular 319 aluminum alloy. Tenzalloy (40-E, 315.0) shall not be acceptable as a load bearing clamp material. Aluminum Association number 319.0-F. Minimum tensile strength shall be 27 psi. Minimum yield strength shall be 18 psi. Finished with a 420 micro finish and a baked-on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601

**Spring Mate Transition Casting**

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Spring Rider Coil Spring**

Shall be a factory assembly fabricated of 20 mm diameter steel rod; wound to a 180 mm center-line diameter. Coil spring wedge shall be fabricated of 100% polyamid 6. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Spring Rider Coil Spring Clamp**

Shall be fabricated of 10 gauge hot rolled flat steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

**Spring Mate Foot Rest**

**ZZXX0737**



\* See Note

<b>Component Number:</b>	<b>ZZXX0737</b>
<b>Specification Rev:</b>	<b>PA639</b>
<b>Component Weight:</b>	<b>68.63 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.074 Yrds.</b>

Shall be an all welded assembly, fabricated of 3/16 in. x 4 in. hot rolled galvanized steel, .50 in. round cold rolled steel and 3.128 in. x 16.125 in. galvanized steel plate. Finished with a baked on powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

## **TURTLE WITH COIL SPRING**

### ***Spring Mate Body***

Shall be cast from Regular 319 aluminum alloy. Tenzalloy (40-E, 315.0) shall not be acceptable as a load bearing clamp material. Aluminum Association number 319.0-F. Minimum tensile strength shall be 27 ksi. Minimum yield strength shall be 18 ksi. Finished with a 420 micro finish and a baked-on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish) ASTM Specifications: B-26. Federal Specifications: QQ-A-601

### ***Spring Mate Transition Casting***

Shall be cast of high strength Almag 35 (535.0-F) aluminum alloy. (See Cast Almag Clamps) Finished with a 420 micro finish and a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### ***Spring Rider Coil Spring***

Shall be a factory assembly fabricated of 20 mm diameter steel rod; wound to a 180 mm center-line diameter. Coil spring wedge shall be fabricated of 100% polyamid 6. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### ***Spring Rider Coil Spring Clamp***

Shall be fabricated of 10 gauge hot rolled flat steel. Finished with a baked on polyester powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

### ***Spring Mate Foot Rest***

Shall be an all welded assembly, fabricated of 3/16 in. x 4 in. hot rolled galvanized steel, .50 in. round cold rolled steel and 3.128 in. x 16.125 in. galvanized steel plate. Finished with a baked on powder coating or PrismCoat. (See PrismCoat / Polyester Powder Coat Finish)

## **ZZXX0741**



\* See Note

<b>Component Number:</b>	<b>ZZXX0741</b>
<b>Specification Rev:</b>	<b>PA640</b>
<b>Component Weight:</b>	<b>65.51 Lbs.</b>
<b>Number of Users:</b>	<b>1</b>
<b>Amount of Concrete:</b>	<b>0.074 Yrds.</b>

\* The photos shown are for product representation only. The actual products may vary in size and color depending upon application.