



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**DNR210030**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

RFQ COPY  
 TYPE NAME/ADDRESS HERE

KELLY ROBINSON  
 7574310057  
 SOUTHERN PLAYGROUND  
 500 CENTRAL DRIVE  
 VIRGINIA BEACH VA 23454

DIVISION OF NATURAL RESOURCES  
 NORTH BEND STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 ROUTE 1, BOX 221  
 CAIRO, WV  
 26337  
 304-643-2931

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
08/27/2009				

BID OPENING DATE: **09/17/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		650-38	49503.56	49503.56
<p>PLAYGROUND EQUIPMENT NORTH BEND STATE PARK</p> <p>REQUEST FOR QUOTATION (RFQ)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING BIDS FROM RESPONSIBLE VENDORS FOR NEW PLAYGROUND EQUIPMENT FOR NORTH BEND STATE PARK PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 09/08/2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE HAS LAPSED.</p> <p>QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT MAY BE DEEMED NULL AND VOID, AND TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH</p>						

RECEIVED  
 2009 SEP 17 A 10:33  
 DIVISION OF NATURAL RESOURCES  
 STATE OF WEST VIRGINIA

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: **757 943 1225** DATE: **9-15-09**

TITLE: **PRESIDENT** FEIN: **54-0983230** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free workplace policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

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PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

RFQ COPY  
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VENDOR

SHIP TO

**DIVISION OF NATURAL RESOURCES  
 NORTH BEND STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 ROUTE 1, BOX 221  
 CAIRO, WV  
 26337  
 304-643-2931**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
<b>08/27/2009</b>				

BID OPENING DATE: **09/17/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.</p> <p>VENDORS MUST PROVIDE UNIT PRICES FOR ALL LINE ITEMS. FAILURE TO PROVIDE UNIT PRICES WILL RESULT IN THE DISQUALIFICATION OF THE VENDORS BID.</p> <p>VENDORS MUST SUBMIT ALL UNIT PRICES IN THE UNIT OF MEASURE REQUESTED BY THE AGENCY. FAILURE TO PROVIDE UNIT PRICES IN THE GIVEN UNIT OF MEASURE WILL RESULT IN THE DISQUALIFICATION OF THE VENDOR'S BID.</p> <p>VENDORS MUST SUBMIT PRICING ON THE PRICING SHEET PROVIDED IN THIS REQUEST FOR QUOTATION. FAILURE TO USE THIS FORM WILL RESULT IN THE DISQUALIFICATION OF THE VENDOR'S BID.</p> <p style="text-align: center;"><b>NOTICE</b></p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION        PURCHASING DIVISION        BUILDING 15        2019 WASHINGTON STREET, EAST        CHARLESTON, WV 25305-0130</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>A. Duban</i>	TELEPHONE <i>757-943-1225</i>	DATE <i>9-15-09</i>
TITLE <i>PRESIDENT</i>	FEIN <i>54-0983230</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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# Request for Quotation

RFQ NUMBER  
**DNR210030**

PAGE  
**3**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES  
 NORTH BEND STATE PARK  
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08/27/2009				

BID OPENING DATE: **09/17/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UCP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>RFQ. NO.: DNR210030</p> <p>BID OPENING DATE: 09/17/2009</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:            ----- <b>757 431-0036</b> -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):            ----- <b>SCOTT DuBois</b> -----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE <b>757 431 0057</b>	DATE <b>9-15-09</b>
TITLE <b>PRESIDENT</b>	FEIN <b>54-0983230</b>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**WVDNR210030**  
**North Bend State Park**  
**Playground Equipment**

To supply playground equipment to offer play activities for children ages five (5) to twelve (12) at North Bend State Park, Cairo, West Virginia. Playground equipment will be purchased for two separate areas in the park. Park personnel will install all playground equipment. The award may be split if it is in the best interest of the West Virginia Division of Natural Resources. All items must be F.O.B. Destination. Freight or delivery charges must be included in the price of the goods. Delivery must be made within thirty (30) days of purchase order award.

**RECREATION AREA PLAYGROUND**

PowerScape plus Fitness Fair, Item #85214, or equal. Structure must include the following components:

- One (1) stepped platform or equal. Platform must be constructed of a minimum 11 gauge punched steel.
- One (1) double wilder slide or equal. Must be constructed of color impregnated linear low density polyethylene.
- One (1) zip slide or equal. Must be constructed of color impregnated linear low density polyethylene.
- One (1) crunch bar or equal. Bar must be constructed of galvanized steel tubing.
- One (1) wavy tree climber or equal. Climber must be one-piece welded assembly.
- One (1) ADA gizmo panel or equal. Panel must be a minimum of 2 ½" in thickness.
- Two (2) slate roof or equal. Roof must be one-piece and constructed of double-wall rotationally molded linear low-density polyethylene.
- One (1) wishbone slide or equal. Slide must be constructed of color impregnated linear low density polyethylene.
- One (1) giant wave climber or equal. Climber must be constructed of color impregnated linear low density polyethylene.
- One (1) overhead ladder access package or equal.

**WVDNR210030**  
**North Bend State Park**  
**Playground Equipment**

- One (1) triangle transfer platform or equal. Platform must have a one-piece welded assembly.
- One (1) arch bridge or equal. Bridge must be fabricated from punched steel.
- One (1) flip slide with universal hood or equal. Slide must be constructed of color impregnated linear low density polyethylene.
- One (1) rockwall climber or equal. Climber must frame assembly must be an all-welded construction.
- One (1) cargo net wall attachment (single and double) or equal.
- One (1) overhead tree climber or equal. Climber must be all-welded construction.
- One (1) track ride or equal. Track ride must have an aluminum track system.
- One (1) challenge station base or equal. Main climber must be all-welded construction.
- One (1) crazy eight climber or equal. Climber must be all-welded construction.
- One (1) poly climbing wall or equal. Wall must be constructed of color impregnated polyethylene.
- One (1) clover climber or equal. Climber must be a one-piece welded assembly.
- One (1) 8' cosmix climber or equal. Climber must be one-piece with color impregnated linear low density polyethylene.
- One (1) bubble climber or equal. Climber must be all welded construction.
- One (1) cargo net wall attachment or equal. Cargo net assembly must be constructed of galvanized welded link chain.

PrimeTime swing, Item #12583, or equal. Top rail and arch must have a minimum 3 ½ " OD; arch must be a minimum of 11 gauge galvanized steel tubing; must include a minimum of 3 ½ " OD galvanized steel sleeve; must be polyester powder coat; must be a minimum of 8 foot high with finished surface; must have a minimum of a 12 foot top rail; and must accommodate two (2) free standing swings.

**WVDNR210030  
North Bend State Park  
Playground Equipment**

PrimeTime swing add-a-bay, Item #12584, or equal. Top rail and arch must have a minimum 3 ½ " OD; arch must be a minimum of 11 gauge galvanized steel tubing; must include a minimum of 3 ½ " OD galvanized steel sleeve; must be polyester powder coat; must be a minimum of 8 foot high with a finished surface; must have a minimum of a 12 foot top rail; and must accommodate two (2) free standing swings.

PrimeTime tot seat package 3 ½" OD, Item #8696, or equal. Package must include all hardware necessary to attach seat to a minimum of a 3 ½ " top rail.

PrimeTime swing belt seat package 3 ½" OD, item #8910, or equal. Package must include all hardware necessary to attach to a minimum of a 3 ½ " top rail.

GameTime tuffclad 6' bench with back in-ground (PS), Item #28009, or equal. Bench must have a minimum of 2 3/8 " OD galvanized powder coat; and seat bench and back must have punched steel with a plastic coating.

One (1) day of supervision by successful vendor. Park personnel will install all playground equipment and this will provide oversight to ensure that all equipment is assembled and installed properly according to manufacturer's guidelines.

**LODGE AREA PLAYGROUND**

PrimeTime kid coral, Item #g11823, or equal. Structure must include the following components:

- One (1) crunch bar or equal. Bar must be constructed of galvanized steel tubing.
- One (1) nature panel or equal. Panel must be a minimum of 2 ½" in thickness.
- One (1) transfer point with access attachment or equal. Must be constructed of a minimum of 11 gauge punched steel.
- One (1) wallcano vert wall climber or equal. Climber must be constructed of color impregnated rotationally molded linear low density polyethylene.
- One (1) slate roof or equal. Roof must be one-piece and constructed of double-wall rotationally molded linear low-density polyethylene.
- One (1) mini arch bridge or equal. Bridge must be fabricated from punched steel.

**WVDNR210030  
North Bend State Park  
Playground Equipment**

- One (1) clover leaf climber or equal. Climber must be one-piece welded assembly.
- One (1) double zip slide or equal. Slide must be constructed of color impregnated linear low-density polyethylene.
- One (1) ADA gizmo panel with three (3) gizmos or equal. Panel must be a minimum of 2 ½" in thickness.
- One (1) double steering wheel enclosure or equal. Steering wheel must withstand an impact of a minimum of 250 foot-pounds.

PrimeTime swing, Item #12583, or equal. Top rail and arch must have a minimum 3 ½ " OD; arch must be a minimum of 11 gauge galvanized steel tubing; must include a minimum of 3 ½ " OD galvanized steel sleeve; must be polyester powder coat; must be a minimum of 8 foot high with finished surface; must have a minimum of a 12 foot top rail; and must accommodate two (2) free standing swings.

PrimeTime swing add-a-bay, Item #12584, or equal. Top rail and arch must have a minimum 3 ½ " OD; arch must be a minimum of 11 gauge galvanized steel tubing; must include a minimum of 3 ½ " OD galvanized steel sleeve; must be polyester powder coat; must be a minimum of 8 foot high with a finished surface; must have a minimum of a 12 foot top rail; and must accommodate two (2) free standing swings.

PrimeTime swing belt seat package 3 ½" OD, item #8910, or equal. Package must include all hardware necessary to attach to a minimum of a 3 ½ " top rail.

PrimeTime tot seat package 3 ½" OD, Item #8696, or equal. Package must include all hardware necessary to attach seat to a minimum of a 3 ½ " top rail.

GameTime tuffclad 6' bench with back in-ground (PS), Item #28009, or equal. Bench must have a minimum of 2 3/8" OD galvanized powder coat; and seat bench and back must have punched steel with a plastic coating.

One (1) day of supervision by successful vendor. Park personnel will install all playground equipment and this will provide oversight to ensure that all equipment is assembled and installed properly according to manufacturer's guidelines.



**WVDNR210030**  
**North Bend State Park**  
**Playground Equipment**

All playground equipment and engineered wood fiber must meet the following requirements:

- Compliance with U.S. Consumer Product Safety Commission, Handbook for Public Playground Safety.
- Compliance with ASTM Standard F 1487.
- Compliance with Architectural and Transportation Barriers Compliance Board, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Play Areas.
- Compliance with Consumer Product Safety Improvement Act (CPSIA) Section 101 lead limits.

Vendors must submit the following attachments:

- Complete manufacturer's parts specifications and warranties.
- Layout drawing to scale of the proposed play structure or equipment.
- ASTM and CPSC Statement of Compliance

Warranties:

- All equipment and engineered wood fiber must be guaranteed to be free of defects in workmanship and material for a minimum of one year from date of acceptance. However, if manufacturer warranty periods are longer than the required minimum one year warranty, those warranties shall apply.

Color scheme of equipment must be coordinated with North Bend State Park. Color of items will be selected from manufacturer's standard colors.

WVDNR210030  
North Bend State Park  
**PLAYGROUND EQUIPMENT SHEET**

Please complete the below information concerning the brand(s) of equipment being bid in relation to this project. If bidding "or equal" brands, please attach manufacturer's literature documenting that it meets the mandatory requirements stated in the specifications. Vendors should note the areas of the provided manufacturer's literature that adheres to the mandatory requirements outlined in the Request For Quotation.

Item No.	Equipment	Manufacturer	Item
1	Recreation Area Playground PowerScape plus Fitness Fair, Item #85214, or equal.	PLAY + PARK STRUCTURES	6219-48140
	One (1) stepped platform or equal, gauge punched steel.	"	61110 - DECK TO DECK STAIRS
	One (1) double wilder slide or equal.	"	6131 - DUELING LANDSLIDE
	One (1) zip slide or equal.	"	6135 - VELOCITY SLIDE
	One (1) crunch bar or equal.	"	60197 - LEG LIFT
	One (1) wavy tree climber or equal.	"	60176 - LOOP ARCH
	One (1) ADA gizmo panel or equal.	"	61226 - TRIPLE ACTIVITY PANEL
	Two (2) slate roof or equal.	"	61056 - CURVED CANOPY
	One (1) wishbone slide or equal.	"	61311 - DOUBLE LANDSLIDE
	One (1) giant wave climber or equal.	"	61059 - APEX CLIMBING LINK
	One (1) overhead ladder access package or equal.	"	60453 - 2'8" LADDER
	One (1) triangle transfer platform or equal.	"	61046 - TRIANGLE TRANSFER PLATFORM
	One (1) arch bridge or equal.	"	60188 - ARCH BRIDGE
	One (1) flip slide with universal hood or equal.	"	60000 - LANDSLIDE
	One (1) rockwall climber or equal.	"	60083 - SIGNAL MOUNTAIN
	One (1) cargo net wall attachment (single and double) or equal.	"	60136 + 60076 - VERTICAL CHAIN NET RADIUS CHAIN NET
	One (1) overhead tree climber or equal.	"	60453 - 8" HORIZONTAL
	One (1) track ride or equal.	"	60087 - TRACK RIDE

WVDNR210030  
North Bend State Park  
**PLAYGROUND EQUIPMENT SHEET**

Item No.	Equipment	Manufacturer	Item
	One (1) challenge station base or equal.	PLAY & PARK STRUCTURES	60114-TEX DECK
	One (1) crazy eight climber or equal.	"	60965-COIL CLIMB
	One (1) poly climbing wall or equal.	"	60357-SIDE CLIMBER
	One (1) clover climber or equal.	"	60964-VERTICAL RINGS
	One (1) 8' cosmix climber or equal.	"	60957-MAXCLIMB
	One (1) bubble climber or equal.	"	60962-LOOP POLE
	One (1) cargo net wall attachment or equal.	"	61267-MOUNT EVEREST
2	Recreation Area Playground PrimeTime swing frame, Item #12583, or equal.	"	67558-ARCH SWING
3	Recreation Area Playground PrimeTime swing add-a-bay, Item #12584, or equal.	"	67626-ADD A BAY
4	Recreation Area PrimeTime tot seat package 3 1/2" OD, Item #8696, or equal.	"	67591- <del>TOT</del> ENCLOSED TOT SEAT
5	Recreation Area Playground PrimeTime swing belt seat package 3 1/2" OD, item #8910, or equal.	"	67597-BELT SEAT
6	Recreation Area Playground GameTime tuffclad in-ground bench, Item #28009, or equal.	"	8F126-BENCH
7	Recreation Area Playground one (1) day of supervision by successful vendor. Park personnel will install all playground equipment and this will provide oversight to ensure that all equipment is assembled and installed properly according to manufacture's guidelines.	SOUTHERN PLAYGROUND INC	SCOTT DUBOIS, PRESIDENT
8	Lodge Area Playground PrimeTime kid coral, Item #g11823, or equal.	PLAY & PARK STRUCTURES	619-48142
	One (1) crunch bar or equal.	"	62243-LEG LIFT

WVDNR210030  
North Bend State Park  
**PLAYGROUND EQUIPMENT SHEET**

Item No.	Equipment	Manufacturer	Item
	One (1) nature panel or equal.	"	62452 - WATER CYCLE
	One (1) transfer point with access attachment or equal.	"	62350 - TRIANGLE TRANSFER
	One (1) wallcano vert wall climber or equal.	"	62408 - INCLINED WALL CLIMBER
	One (1) slate roof or equal.	"	62359 - FUN VISOR
	One (1) mini arch bridge or equal.	"	62374 - ARCH BRIDGE
	One (1) clover leaf climber or equal.	"	62288 - VERTICAL RING
	One (1) double zip slide or equal.	"	63993 - DOUBLE VELOCITY SLIDE
	One (1) ADA gizmo panel with three (3) gizmos or equal.	"	62373 - MINI AMAZE
	One (1) double steering wheel enclosure or equal.	"	62363 - BARRIER W/ STEERING WHEEL
9	Lodge Area Playground PrimeTime swing frame, Item #12583, or equal.	"	67558 - ARCH SWINGS
10	Lodge Area Playground PrimeTime swing-a-bay, item #12584, or equal.	"	67620 - ARCH SWINGS AAB
11	Lodge Area PrimeTime tot seat package 3 1/2" OD, Item #8696, or equal.	"	67591 - ENCL SEAT
12	Lodge Area Playground PrimeTime swing belt seat package 3 1/2" OD, Item #8910, or equal.	"	67597 - BELT SEAT
13	Lodge Area Playground GameTime tuffclad in-ground bench Item #28009, or equal.	"	85126 - BENCH
14	Lodge Area Playground one (1) day of supervision by successful vendor. Park personnel will install all playground equipment and this will provide oversight to ensure that all equipment is assembled and installed properly according to manufacture's guidelines.	SOUTHERN PLAYGROUND, INC	SCOTT DuBOIS

North Bend State Park Playground Equipment  
PRICING SHEET

Item No.	Quantity	Description	Unit Price	Amount
1	1	Recreation Area Playground PowerScape plus Fitness Fair, Item #85214, or equal.	32703.60	32703.60
2	1	Recreation Area Playground PrimeTime swing frame, Item #12583, or equal.	596.16	596.16
3	1	Recreation Area Playground PrimeTime swing add-a-bay, Item #12584, or equal.	369.90	369.90
4	2	Recreation Area PrimeTime tot seat package 3 1/2" OD, Item #8696, or equal.	162.43	324.86
5	2	Recreation Area Playground PrimeTime swing belt seat package 3 1/2" OD, item #8910, or equal.	226.37	452.74
6	4	Recreation Area Playground GameTime tuffclad in-ground bench Item #28009, or equal.	363.74	1454.96
7	1	Recreation Area Playground one (1) day of supervision by successful vendor. Park personnel will install all playground equipment and this will provide oversight to ensure that all equipment is assembled and installed properly according to manufacture's guidelines.	1000.00	1000.00
8	1	Lodge Area Playground PrimeTime kid coral, Item #g11823, or equal.	9130.19	9130.19
9	1	Lodge Area Playground PrimeTime swing frame, Item #12583, or equal.	596.16	596.16
10	1	Lodge Area Playground PrimeTime swing-a-bay, item #12584, or equal.	369.90	369.90
11	2	Lodge Area Playground PrimeTime tot seat package 3 1/2" OD, Item #8696, or equal.	<del>324.86</del> 226.37	<del>324.86</del> 452.74

North Bend State Park Playground Equipment  
PRICING SHEET

Item No.	Quantity	Description	Unit Price	Amount
12	2	Lodge Area Playground PrimeTime swing belt seat package 3 ½" OD, item #8910, or equal.	162.43	324.86
13	1	Lodge Area Playground GameTime tuffclad in-ground bench Item #28009, or equal.	363.74	727.48
14	1	Lodge Area Playground one (1) day of supervision by successful vendor. Park personnel will install all playground equipment and this will provide oversight to ensure that all equipment is assembled and installed properly according to manufacture's guidelines.	1000.00	1000.00
		<b>TOTAL</b>		49503.56

State of West Virginia  
**VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts) *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §81-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Southern Playgroup Signed: A. Dubon  
 Date: 9-15-09 Title: RESIDENT

\*Check any combination of preference consideration(s) indicated above which you are entitled to receive.

RFQ No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

## PURCHASING AFFIDAVIT

### VENDOR OWING A DEBT TO THE STATE:

*West Virginia Code* §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

### PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

### ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

### LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

### CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: SCOTT DUBOIS, SOUTHERN PLAYGROUND  
Authorized Signature: [Signature] Date: 9-15-09





P.O. Box 680121  
Fort Payne, AL 35967  
256-997-5212 – phone  
256-997-5312 – fax  
mikeh@playcore.com

September 16, 2009

State of West Virginia  
Division of Purchasing  
Attn: Krista Ferrell  
2019 Washington Street East  
Charleston, WV 25305

RE: Park Structures Drawings # 619-48140 and 619-48142

Ms Ferrell:

This letter will serve to confirm that the equipment referenced above was designed to conform to or exceed the applicable ASTM standards (F1487-07). Further, some units have specific play events, platforms, and routes of travel for the differently abled. Those events conform to the applicable portions of ADA. Additionally, ASTM compliance has been certified by IPEMA (for a full listing of IPEMA certified products, please see Park Structures' product listing at the IPEMA website at [www.IPEMA.org](http://www.IPEMA.org))

Sincerely,

**PlayCore**








A handwritten signature in black ink, appearing to read "Mike Hawkins", is written over a faint, larger version of the same signature.

Mike Hawkins  
Vice President,  
Corporate Risk Management,  
Insurance and Legal Affairs

MH/mt

# North Bend Park Cairo, WV

## Northwoods Color Theme

-  Belge Accent Metals
-  Green HDPE Plastic
-  Green Posts
-  Green Roofs
-  Brown Decks
-  Green Plastic Slides
-  Green Tubes



**SOUTHERN  
PLAYGROUND**

P.O. Box 4505

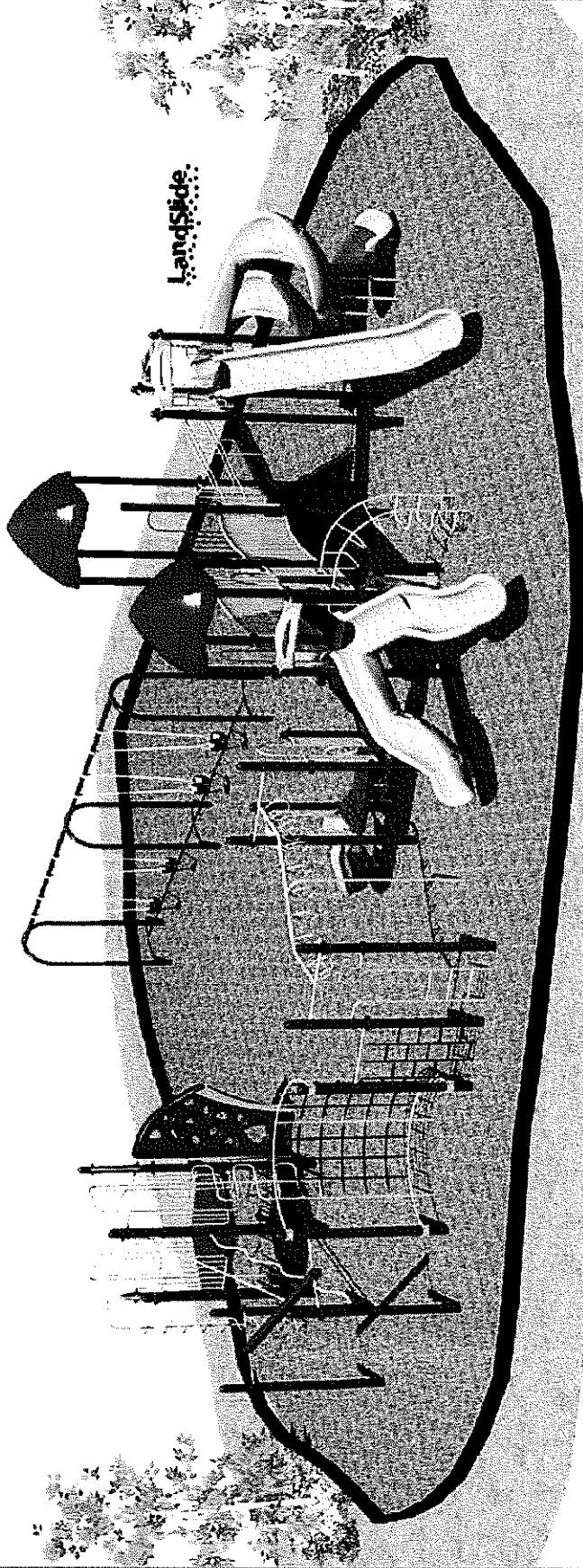
500 Central Drive #109

Virginia Beach, VA 23454

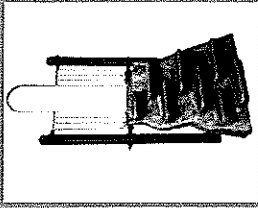
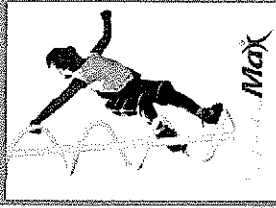
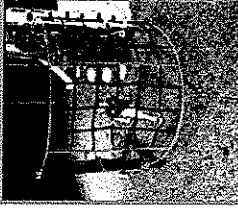
1-757-431-0057

**1-800-257-1314**

info@southernplayground.com



LandSlide



**play&park  
structures**  
Gateway to Imaginative Play

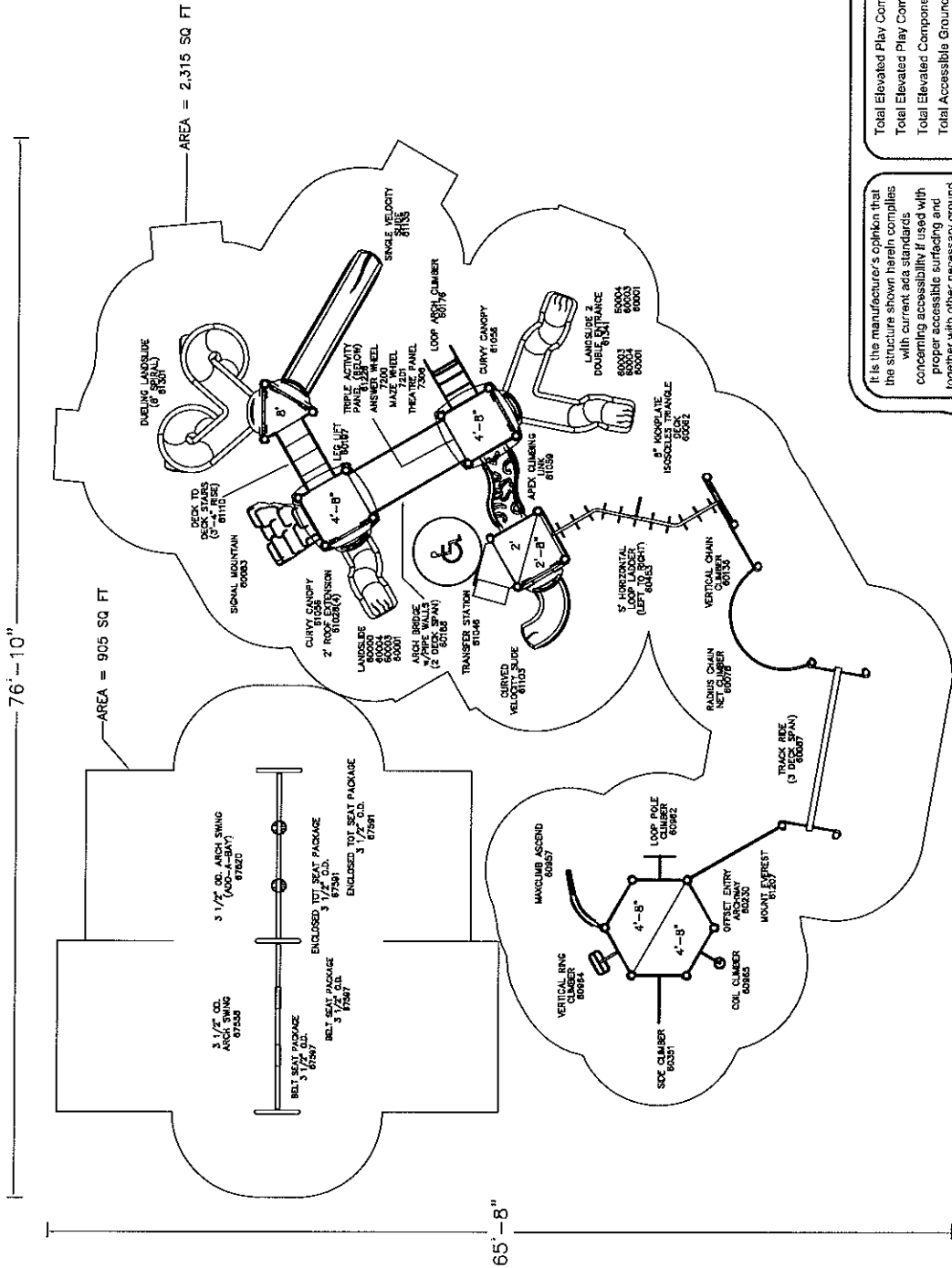


Age	5-12 years
Activities	25 events
Use Zone	76'-10" x 65'-8"
Capacity	70-80 kids

Maximizing the Potential of Play

playandpark.com

1-800-727-1907



76'-10"

AREA = 905 SQ FT

AREA = 2,315 SQ FT

65'-8"

Total Elevated Play Components	16
Total Elevated Play Components Accessible By Ramp	0
Total Elevated Components Accessible By Transfer	10
Total Accessible Ground Level Components Shown	8
Total Different Types Of Ground Level Components	4
Required	0
Required	6
Required	5
Required	3

It is the manufacturer's opinion that the structure shown herein complies with current area standards concerning accessibility. It is the owner's responsibility to ensure proper accessible surfacing and level play equipment together with other necessary ground level play equipment.

Minimum Area Required:  
76'-10" x 65'-8"

Scale: 1/8" = 1'  
This drawing can be scaled only when in an 11" x 17" format.

This play equipment is recommended for children ages 5-12

IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

Drawn By:  
J. Swiechowski

Date:  
9/11/09

Drawing Name:  
619-48140

North Bend Park  
Recreation Area Playground  
Cairo, WV 26337  
Representative:  
Southern Playground

play&park structures  
401 Chestnut St., Ste. 310  
Chattanooga, TN 37402  
800-727-1907  
www.playandpark.com

9/11/2009

**North Bend Park  
Recreation Area Playground  
Drawing #619-48140**

**Park Play Specifications**

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**General System Specifications:**

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

**Arch Swing Structures**

Arch Swing - (3 1/2" O.D. Toprail)

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

**Seat Packages**

Strap & Tot Seats

Rights are reserved to discontinue or change specifications without notice

Bucket Seats shall be fabricated with .020" thick stainless steel inserts covered by a dark green colored EPDM rubber

Fully Enclosed Seats shall be fabricated with .025" thick stainless steel inserts covered by a dark green colored EPDM rubber

Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper.

## Other

### Small Amaze Activity

Small Activity: The Triangle Housing and Caps shall be injection molded from color impregnated high density polyethylene. The Maze Bubble shall be injection molded from clear ABS plastic. The Echo Chamber, Answer Wheel, Knob and Maze shall be injection molded from color impregnated ABS plastic. The Flat Mirror shall be 1/8" thick Polycarbonate with a mirror finish applied to one side. The Stained Glass shall be 3/16" translucent Polycarbonate.

## SuperMax Specifications

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### General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified.

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

### General Specifications of Materials

#### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790)

#### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 100% at 400 degrees Fahrenheit.

#### Hardware

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated

#### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

#### Uprights, Aluminum

The posts shall be 5" outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

#### Entry Archway

Entry Archway shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. L-Fitting is fabricated from 3/16" thick stainless steel for attachment to clamp. The Entry Archway shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

#### Thermoformed Plastics

All polyethylene shall be an ultra high molecular weight material. All thermoformed molded products shall meet or exceed the following specifications: ASTM D-1248, Type III, Class A, Category 5 and ASTM D-4976 PE235; Density (ASTM D-1505); Melt Flow (ASTM D-1238); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); ESCR Value (ASTM D-1693); Vicat Temperature (ASTM D-1525); Brittleness Temperature (ASTM D-746). Complies with FDA Regulation 21 CFR 177.1520. Complies with FMVSS #302 @ > 060".

#### HDPE Components

##### HDPE Panels

Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft<sup>3</sup> and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiused and all corners rounded for safe play.

#### Metal Components

##### Coil Climber

Coil Climber consists of a 1-5/8" O.D. galvanized steel center tube with a 1-5/16" reduced end fitting for insertion into Vertical Pole Barrier. The coil is fabricated from a continuous 1-5/16" O.D. galvanized steel tube coiled to form a 10" diameter with maximum 11" clear spacing between each turn. Each open end of coiled tubing is welded shut, and the entire coiled tubing is welded to the 1-5/8" center pole at intervals using 1" O.D. galvanized tubing for connections. The entire Coil Climber is polyester powder-coated after fabrication.

##### Sided Entrance Barrier

Pipe Wall is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing steel welded to L-Fittings and 3/16" x 2" x 27" Arch Side Entrance Plate. The entire Pipe Wall is coated with a baked on polyester powder-coated finish.

##### Loop Arch

Loop Arch Climber Frame is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing using steel welds with a baked on polyester powder-coat finish after fabrication. Panels are cut from a single sheet of high-density .850" thick extruded solid polyethylene with color molded in and UV-stabilized.

#### Loop Pole

Vertical Pole Barrier is fabricated from 1-5/16" O.D. , 1-5/8" O.D. galvanized steel tubing, and galvanized tabs, and all welded. The entire barrier is coated after fabrication with a baked on polyester powder-coat finish. Loop Pole consists of a straight 1-5/8" O.D. galvanized steel tube with a 1-5/16" reduced end fitting for insertion into Vertical Pole Barrier overhead extension. Loops are fabricated from a 1-5/16" O.D. tube bent to form 12" loops and welded to the center pole

#### Side Climber

Vertical Pole Barrier is fabricated from 1-5/16" O.D. and 1-5/8" O.D. galvanized steel tubing, with galvanized tabs. The entire Barrier is coated after fabrication with a baked on polyester powder-coated finish. Side Climber Frame consists of 1-5/8" O.D. galvanized steel tube and 1-5/8" O.D. galvanized steel tube with a 1-5/16" reduced end fitting for insertion into Vertical Pole Barrier overhead extension. Rungs are formed from 1-5/16" O.D. galvanized steel tubing. All parts are welded and receive a baked-on polyester powder-coated finish after fabrication.

#### Vertical Ring Climber

Vertical Ring Climber Frame is fabricated from 1-5/16" O.D. galvanized steel tube with a bake on polyester powder-coat finish after fabrication.

Vertical Pole Barrier is fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with interior vertical members fabricated of 1-1/16" O.D. x .075" (15 gauge) wall galvanized steel tubing. The Pole Barrier is a welded assembly and receives a baked-on powder coat finish.

#### Leg Lift

Leg Lift is formed from 4-1/2" x 2" x 3/16" steel welded to 1" O.D. 14-gauge galvanized tubing, polyester powder-coated after fabrication. Half Clamp is cast from a 356 high-strength aluminum alloy with a baked-on polyester powder-coated finish.

#### Mount Everest Climber

CLIMBING BAR ASS'Y: 1 1/4" I.D. galvanized pipe, formed, with 3/16" Stainless Steel U-Fittings, all in a welded and powder coated assembly.

GUIDE ASS'Y: 1 3/15" O.D. Ga. Formed Rail with 3/16" Stainless Steel U-Fittings, all in a welded and powder coated assembly.

FINISH: Galvanized or powder coat over galvanized pipes

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.



#### Radius Chain Net Climber

Radius Chain Net Climber Upper & Lower Frames with loops is fabricated from 3/16" thick steel Half-Clamps stainless steel welded to 1-7/8" O.D. galvanized steel tubing with loops. Entire Frame receives a baked-on polyester powder-coated finish. Center, Side and In-ground Support Posts are fabricated from 1-5-16" O.D. 14-gauge galvanized steel tubing with loops bent from 3/8" stainless steel rod and welded to tubing. Entire Support Posts receive a baked-on polyester powder-coated finish after fabrication. Chain Assembly is factory-assembled using 1/4" Grade-30 ISO Proof Coil Galvanized Chain. Heavy-duty 3/8" x 3" plated "S" hooks are crimped at the end of the chain, and the entire assembly is plastisol-coated.

#### Track Ride

Track Ride Beams are made of seamless extruded aluminum tube 5" wide. Tube walls are 3/16" to 1/4" thick. Round aluminum collars are welded to the end of the Track Segment for fastening. Track sections are polyester powder-coated after fabrication. Track Ride trolley is a steel welded and powder-coated assembly with 8 nylon roller-skate wheels with ball bearings to facilitate smooth movement through the track. Rubber bumpers on either end cushion stops inside the tube when striking on stoppers. Stoppers are made of rubber (Butyl 70-durometer). The 1" O.D. handle is welded to the trolley prior to yellow-zinc plating and powder coating. 49" Rung is a 1- 5/16 " O.D. 14-gauge galvanized steel tube and polyester powder-coated after fabrication.

#### Vertical Chain Climber

Chain Climber Lower Pipe with Loops and Vertical Chain Climber w/4Loops are fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing with loops bent from 3/8" stainless steel rod and stainless steel welded to tubing. Chain Climber Assembly is factory-assembled using 1" O.D. 14-gauge galvanized steel tubing as rungs mechanically fastened to 1/4" grade-30 ISO proof coil galvanized Chain. Heavy-duty 3/8" x 3" plated "S" hooks are crimped at the end of the Chain. Entire assembly is plastisol-coated.

#### "S" Horizontal Loop Ladder

S Horizontal Loop Ladder consists of 2-3/8" O.D. 10-gauge galvanized steel tubing for the center beam and 1" O.D. 14-gauge galvanized steel tubing for the loops. Rungs and sockets are 1-5/8" O.D. 14-gauge galvanized tubes with 1-5/16" O.D. swaged ends welded to center beam. Vertical Ladder is made of 1-5/16" O.D. galvanized tube with 1" O.D. Galvanized tube rungs, and 3/16" thick steel tabs. All metal parts are steel welded and shall be coated with a custom formula TGIC polyester powder coating.

### Rotomolded Components

#### Curvy Canopy

Roof shall be a single piece rotationally molded from an extremely durable low-density polyethylene with ultraviolet (UV) light stabilizers and color molded in. This material complies with ASTM-D-1248, Type 2, Class A, and Federal Specification LP-390C, Type 1, Class M, Grade 2, Category 3, and has a minimum 3/16" wall thickness.

#### MaxClimb

SIDE ENTRY ARCHWAY shall be fabricated of 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. L-Fitting is fabricated from 3/16" thick hot rolled steel for attachment to clamp. The Entrance Enclosure shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

CLIMBING WALLS shall be rotationally molded from an extremely durable double-walled low-density polyethylene with (UV) light stabilizers and color molded in. This material complies with SIM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade2, Category 3, and has a minimum 1/4" wall thickness

SUPPORTS are fabricated from .120 (11 gauge) hot-rolled flat steel, and 2-1/2" X 1-1/2" black steel tubing. Supports shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

CABLES are 5/8" galvanized wire reinforced cable with a urethane coated polyester cover.

#### Signal Mountain

Signal Mountain is Thermal formed ergonomically design with real rock color and texture. Climbing Barrier is made from 1-5/16" O.D. galvanized tubing with 3/16" "L" brackets and receives a baked-on polyester powder-coated finish after fabrication. Upper Brackets and U-Supports are formed from 1-5/16" O.D. tubing.

#### Apex Climber - Standard

ENTRY ARCHWAY shall be fabricated of 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. L-Fitting is fabricated from 3/16" thick steel for attachment to clamp. The Entry Archway shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

MOUNTING BRACKET shall be formed from 1/4" x 2" hot-rolled steel plate. The Mounting Bracket shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

CLIMBER shall be rotationally molded from an extremely durable double-walled low-density polyethylene with (UV) light stabilizers and color molded in. This material complies with STM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade2, Category 3, and has a minimum 1/4" wall thickness.

FOOTBUCKS are fabricated from 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with smashed end for attachment to climber. Footbuck shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

#### Avalanche & Landslide Slides

Slide footbuck is fabricated from 1 5/16" O.D. 14-gauge galvanized steel tubing and 1/4" steel plate. Slide supports are fabricated from 1 5/8" O.D. 14-gauge galvanized steel tubing. Cross Bar is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing. Handhold assembly is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing and 3/16" steel mounting tab. Vertical rung assembly is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing and 1/8" steel mounting tab. Collar Plate is fabricated from 1/8" sheet steel and 2 1/8" O.D. steel collar. Deck Center Support is fabricated from 2 3/8" O.D. 13-gauge galvanized steel tubing. Support Rung is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing with 3/8" crimped insert. All metal parts receive a baked-on polyester powder-coat finish after fabrication.

Slide Sections, Entrance Section and Visor Hood shall be rotationally molded from an extremely durable double-walled low density polyethylene with (UV) light stabilizers and color molded in. This material complies with SIM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade2, Category 3, and has a minimum 1/4" wall thickness (3/16" for Visor Hood). Steel inserts are molded in to receive fastening bolts. Slide side rails are a minimum 12" high from the inside slide surface, and slide bed-way is designed to have a 20" minimum width.

Half Flat Cap is an all-welded assembly fabricated from 1/4" and 1/8" thick Hot Rolled Steel. Half Flat Cap shall be coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating with a minimum coating thickness of .080". The PVC coating shall have a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating.

#### Single Slides - Roto-Molded

Slide foot buck is fabricated from 2 3/8" O.D. 13 gauge galvanized steel tubing with a welded 12 gauge steel plate. Cross Bar is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing. Barrier assembly is fabricated from 1 5/16" O.D. 14-gauge and 1" O.D. 15 gauge galvanized tubing, and 1/8" steel mounting tab. Collar Plate is fabricated from 1/8" sheet steel and 2 1/8" O.D. steel collar. All metal parts shall be coated with a custom formula TGIC polyester powder coating. Slide sections and Visor Hood shall be rotationally molded from an extremely durable double-walled low density polyethylene with (UV) light stabilizers and color molded in. This material complies with STM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade 2 < Category 3, and has a minimum 1/4" wall thickness (3/16" for Visor Hood). Steel inserts are molded in to receive fastening bolts. Slide side rails are a minimum 12" high from the inside slide surface, and slide bed-way is designed to have a 20" minimum width.

#### Activity Panel (Below Deck)

Activity Panel shall be 2-1/2" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16" wall thickness. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

Bracket shall be 3/16" X 1 3/4" stainless steel. The bracket shall be coated after fabrication with a custom formula of IGIC polyester powder in conformance with the specifications outlined herein.

## Deck Components

#### Deck Platforms

Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

#### Isosceles Triangle Deck

Metal decks shall be a one-piece construction and shall be designed to maintain a 48" on center post spacing on two sides with a 90° corner between the two 48" sides and a 67-7/8" center post spacing on the final side. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

#### Arch Bridge w/ Pipe Wall

The Arch Bridge is fabricated from pre-punched steel sheet with steel flat support bars welded underneath to increase strength. After welding, the entire bridge is Plastisol coated with a minimum thickness 80 mils on top wear surface. Average perforation size is 0.35" diameter after coating. The Pipe Wall is fabricated from 1-5/16" O.D. galvanized steel tubing with 'L' fitting stainless steel welded for attachment. The entire Pipe Wall receives a baked on polyester powder-coated finish.








#### Transfer Station (Triangle)

The Platform and Step shall each be made from 12 gauge punched steel with a protective p&o finish. The Platform and Step shall each be a one-piece welded assembly finished with the matte PVC coating. The step shall have a minimum of 355 square inches of area per step and shall descend in increments of 8" or less, as specified by the Americans with Disabilities Act (ADA). Handhold and Platform Supports shall be fabricated from 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing, and 1 1/4" (14 gauge) pipe cap. Handhold and platform supports shall be all-welded assemblies and shall be coated with a custom formula of TGIC polyester powder.

#### Kickplate - Isosceles

Kickplate measures 9-1/2" x 58", and is cut from galvanized sheet metal with (10) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Edges are ground smooth and receives a baked-on polyester powder-coated finish after fabrication.

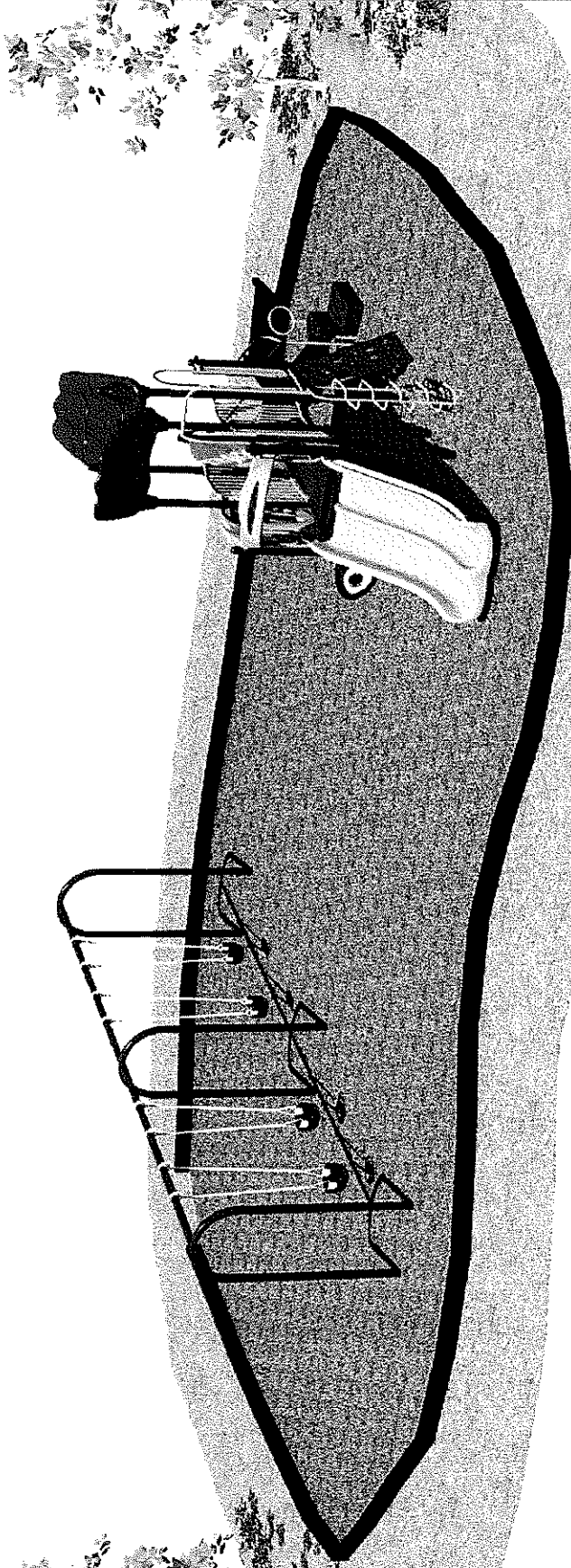
# North Bend Park Cairo, WV

- Northwoods Color Theme
-  Beige Accent Metals
  -  Green HDPE Plastic
  -  Green Posts
  -  Green Roofs
  -  Brown Decks
  -  Green Plastic Slides
  -  Green Tubes



P.O. Box 4505  
500 Central Drive, #109  
Virginia Beach, VA 23454  
1-757-431-4057 info@southernplayground.com

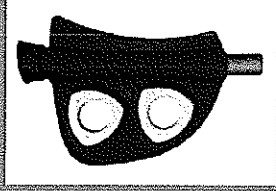
**1-800-257-1314**



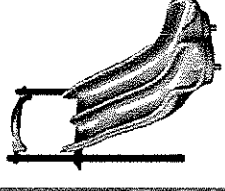
**play&park structures**  
Catering to Inquisitive Play



Age	2-5 or 5-12 years
Activities	11 events
Use Zone	37'-2" x 51'-2"
Capacity	20-30 kids



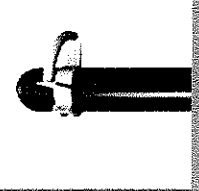
**amaze**



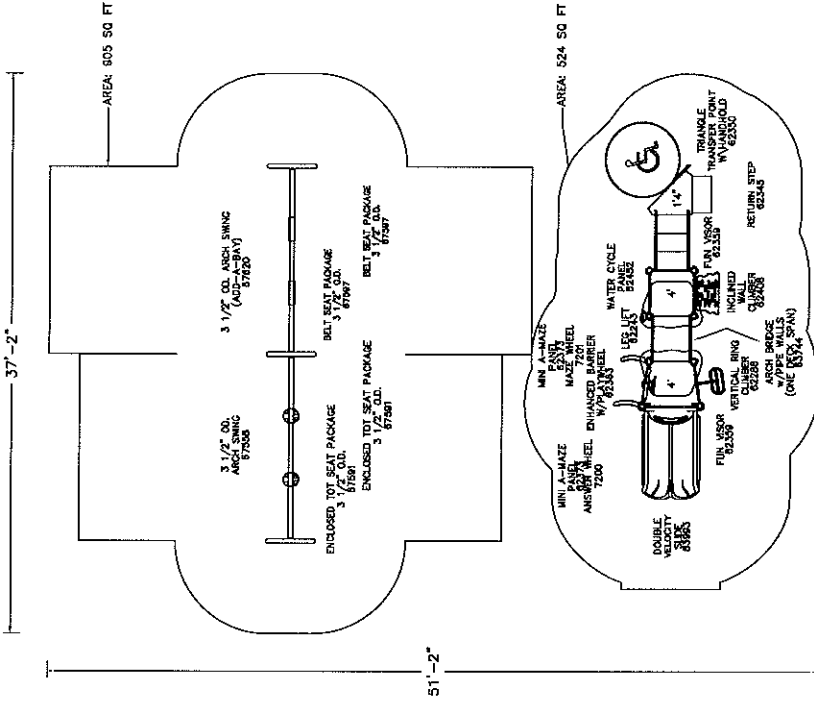
**Velocity Slides**



**Max**



**Max**



It is the manufacturer's opinion that the structure shown herein complies with current ADA standards concerning accessibility. If used with proper accessible surfacing and together with other necessary ground level play equipment.

Minimum Area Required:  
 37'-2" x 51'-2"  
 Scale: 1/8" = 1'  
 This drawing can be scaled only when in an 11" x 17" format.

This play equipment is recommended for children ages 2-5 or 5-12

North Bend Park  
 Lodge Area Playground  
 Cairo, WV 26337  
 Representative  
 Southern Playground

**play&park** structures  
 401 Chestnut St., Ste. 310  
 Chattanooga, TN 37402  
 800-727-1907  
 www.playandpark.com

IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

Minimum Area Required:  
 37'-2" x 51'-2"  
 Scale: 1/8" = 1'  
 This drawing can be scaled only when in an 11" x 17" format.

This play equipment is recommended for children ages 2-5 or 5-12

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 800-727-1907  
 www.playandpark.com

Total Elevated Play Components	6	0	Required	0
Total Elevated Play Components Accessible By Ramp	0	0	Required	3
Total Elevated Components Accessible By Transfer	6	6	Required	3
Total Accessible Ground Level Components Shown	5	5	Required	2
Total Different Types Of Ground Level Components	4	4	Required	2

Drawn By:  
 J. Swieclchowski  
 Date:  
 9/11/09  
 Drawing Name:  
 619-48142

9/11/2009

**North Bend Park  
Lodge Area Playground  
Drawing #619-48142**

**Park Play Specifications**

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**General System Specifications:**

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01

**Arch Swing Structures**

Arch Swing - (3 1/2" O.D. Toprail)

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

**Seat Packages**

Strap & Tot Seats

Rights are reserved to discontinue or change specifications without notice.

Bucket Seats shall be fabricated with .020" thick stainless steel inserts covered by a dark green colored EPDM rubber.

Fully Enclosed Seats shall be fabricated with .025" thick stainless steel inserts covered by a dark green colored EPDM rubber.

Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper

## Other

### Small Amaze Activity

Small Activity: The Triangle Housing and Caps shall be injection molded from color impregnated high density polyethylene. The Maze Bubble shall be injection molded from clear ABS plastic. The Echo Chamber, Answer Wheel, Knob and Maze shall be injection molded from color impregnated ABS plastic. The Flat Mirror shall be 1/8" thick Polycarbonate with a mirror finish applied to one side. The Stained Glass shall be 3/16" translucent Polycarbonate

## DuraMax Specifications

### General System Specifications:

DuraMax features 3 1/2" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat and utilizing stainless steel tabs on component connections. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01

### General Specifications of Materials

#### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %



#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of IGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fathometer 300 hrs with no loss of gloss), Oven-bake Stability 100% at 400 degrees Fahrenheit.

#### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid polyvinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

- Tensile Strength - 2,800 psi
- Elongation - 290 %
- Tear Strength - 420 lbs/in

#### Uprights - Steel

Shall be 3 5" outside diameter, 13 gauge (.095") galvanized round tubing, manufactured to ASTM A-500 Section II tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for Steel Coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi.

The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5 2.4, Type D. All upright posts shall have a finished grade line marking to indicate the correct playground safety surface level. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

## **HDPE Components**

### **HDPE Panels**

Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft<sup>3</sup> and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiused and all corners rounded for safe play.

### **Inclined Wall Climber**

Inclined Wall shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft<sup>3</sup> and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiused and all corners rounded for safe play. Frame Assembly shall be an all welded assembly fabricated from 1.315" O.D. galvanized steel tubing (.083" wall thickness). This assembly shall have a powder coat finish.

## **Metal Components**

### **Vertical Ring Climber**

Vertical Pole Barrier is fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with interior vertical members fabricated of 1 1/16" O.D. x .075" (15 gauge) wall galvanized steel tubing. The Barrier is a welded assembly and receives a baked-on powder coat finish.

Vertical Ring Climber consists of a 1-5/8" O.D. galvanized steel tubing with reduced end fitting for insertion into Vertical Pole Barrier overhead extension. Rungs are fabricated from a 1-5/16" O.D. 14-gauge. The entire frame receives a baked-on polyester powder-coated finish after fabrication.

### **Leg Lift**

Leg Lift is formed from 4-1/2" x 2" x 3/16" steel welded to 1" O.D. 14-gauge galvanized tubing, polyester powder-coated after fabrication. Half Clamp is cast from a 356 high-strength aluminum alloy with a baked-on polyester powder-coated finish.

## **Roto-Molded Components**

### **Double Slides - Roto-Molded**

Slide foot buck is fabricated from 2 3/8" O.D. galvanized steel tubing and 12 gauge stainless steel plate. Cross Bar is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing. Barrier assembly is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing and 1 1/4" O.D. galvanized end cap. Collar Plate is fabricated from 1/8" sheet steel and 2 1/8" O.D. steel collar. All metal parts shall be coated with a custom formula IGIC polyester powder coating. Slide sections and Visor Hood shall be rotationally molded from an extremely durable double-walled low density polyethylene with (UV) light stabilizers and color molded in. This material complies with ASTM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade 2 < Category 3, and has a minimum 1/4" wall thickness (3/16" for Visor Hood). Steel inserts are molded in to receive fastening bolts. Slide side rails are a minimum 12" high from the inside slide surface, and slide bed-way is designed to have a 20" minimum width.

#### FunVisor

Roof shall be a single piece rotationally molded from an extremely durable low-density polyethylene with ultraviolet (UV) light stabilizers and color molded in. This material complies with ASTM-D-1248, Type 2, Class A, and Federal Specification LP-390C, Type 1, Class M, Grade 2, Category 3, and has a minimum 3/16" wall thickness.

#### Enhanced Barrier

Enhanced Barrier: Shall be 3-1/2" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16" wall thickness. Smashed pipe is made from 1.029" (15 gauge) O.D. galvanized pipe. Barrier slides over smashed pipe that is attached to deck. Barrier attaches to uprights using panel clamps.

Panel Cap is made from Butyl / 90 Durometer Black Rubber and attaches to Barrier via molded in inserts. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

#### Mini Amaze Panel

Mini A-Maze: Panel shall be 3" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16" wall thickness. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). Panel shall attach to upright clamp using a one piece formed 3/16" stainless steel tab.

## Deck Components

#### Deck Platforms

Metal decks shall be a one-piece construction and shall be designed to maintain a full 36" on center post spacing. Metal decks shall be fabricated from 12 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 12 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

#### Kickplates

Kickplate measures 9-1/2" x 29", and is cut from galvanized sheet metal with (4) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Edges are ground smooth and Kick plate is powder-coated after fabrication with a baked on polyester finish.

#### Arch Bridge w/ Pipe Wall

The Arch Bridge is fabricated from pre-punched steel sheet with steel flat support bars welded underneath to increase strength. After welding, the entire bridge is Plastisol coated with a minimum thickness 80 mils on top wear surface. Average perforation size is 0.35" diameter after coating. The Pipe Wall is fabricated from 1-5/16" O.D. galvanized steel tubing with 'L' fitting stainless steel welded for attachment. The entire Pipe Wall receives a baked on polyester powder-coated finish.

#### Triangle Transfer Point with Handhold

##### Triangle Transfer with Handhold

The Triangle Transfer shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Triangle Transfer shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Handhold shall be fabricated from 1 7/8" O.D. x .12" (11 gauge) wall and 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Handhold and Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

#### Return Step

##### Return Step

The Return Step shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Return Steps shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.