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INTRODUCTION

The design team began working with the State College Area School District in the fall of 2018 to develop a master plan to address the district’s outdoor play spaces. Metcalfe is a firm of experience designers – architects, exhibit and graphic designers, and play professionals. We have devoted our practice to playful learning opportunities in schools, gardens, museums, and other cultural institutions. We regard play as a primary way humans learn and we deeply appreciate the District’s desire to invest in this critical part of student life.

We have worked in concert with Studio Ludo on this project. Studio Ludo is a 501(c)3 organization devoted to building better play through research, design, and advocacy. The center of their research is their focus on examining play value, safety in the context of risk/benefit and they are extremely sensitive to the entire environment in which the invitation to play takes place.

Think Green, LLC is a landscape design and construction firm with a deep connection to children’s play environments. They have provided technical construction advice and cost estimating for the master planning project.

Stahl Sheaffer Engineering, LLC is a State College, PA based civil engineering firm with experience working with the State College Area School District. We have recruited them to help us identify critical civil engineering issues that may confront the project at an individual school basis as the District moves from planning to implementation.

Our team has made it our mission to craft remarkable environments that support the innovation, creativity, discovery, and joy that can be found only through play. We are excited about the potential of the State College Area School District Master Plan to not only address the state of its current play venues, but to rethink the future of its outdoor environments through the lens of play-based learning.

Metcalfe’s and Studio Ludo’s combined design experience is well versed in current trends in play and learning environment design, from the integration of risk into play, to the importance of nature in school settings. We believe strongly in the correlation between joy and play and success in learning in the words of Fred Rogers, “Play is often talked about as if it were a relief from serious learning. But for children play is serious learning. Play is really the work of childhood.”

PROJECT GOALS

Metcalfe was asked to develop holistic playgrounds that emphasized naturalized play spaces and learning opportunities and, where applicable, integration of physical and visual play and traditional play equipment towards those aims and to ensure ADA access as outlined in the play area guidelines supplement to the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and the 2010 ADA Standards for Accessible Design.

In order to understand what existed and what was needed, we developed a base knowledge of each school through:

- Documenting existing conditions
- Performing playground safety and play value audits
- Establishing programming needs
- Providing recommendations for the findings

As part of the development and iterative process of design, we lead several community based engagement meetings. We worked with the following stakeholders to gather input and critique during the design process:

- SC ASD Board of School Directors
- SC ASD Administrative and Professional Staff
- SC ASD Designated Playground Task Force
- State College Community At-Large

This document intends to summarize the masterplan process through discovery and analysis, design and suggested phasing for implementation for the following schools:

- Corl Street Elementary School
- Easterly Parkway Elementary School
- Ferguson Township Elementary School
- Gray’s Woods Elementary School
- Mount Nittany Elementary School
- Park Forest Elementary School
- Radio Park Elementary School
- Spring Creek Elementary School (future)
- Mount Nittany Middle School
- Park Forest Middle School
- Delta Program
The goal of the play report is to lay the foundation upon which recommendations for the design of existing and future play areas for the State College Area School District (SCASD) will be developed. The report begins with an overview and then addresses the following safety topics: Kimberly-Clark's playground Safety Audits. Next, the Playground Safety Audits are undertaken for each of the ten play areas. The Playground Safety Audits include a Priority Ranking System to then provide an overview of each of the ten sites, with photographs, recommendations for the design of existing and future play areas, and which among our priority rankings might be the best priority for each site. The goal of the play report is to lay the foundation upon which recommendations for the design of existing and future play areas for the State College Area School District (SCASD) will be developed. The report begins with an overview and then addresses the following safety topics: Kimberly-Clark's playground Safety Audits. Next, the Playground Safety Audits are undertaken for each of the ten play areas. The Playground Safety Audits include a Priority Ranking System to then provide an overview of each of the ten sites, with photographs, recommendations for the design of existing and future play areas, and which among our priority rankings might be the best priority for each site.

OVERVIEW


PRIOIRITY 1

Non-compliant safety concern that is likely to cause a minor injury. Condition should be corrected immediately.

PRIOIRITY 2

Non-compliant safety concern that is likely to cause a minor disability. Condition should be corrected within the next 1-2 years.

PRIOIRITY 3

Non-compliant safety concern that potential cause injury to any minor. Condition should be corrected if warranted.

PRIOIRITY 4

Non-compliant safety concern that is likely to cause a non-disabling injury. Condition should be corrected when time permits.

PRIOIRITY 5

Non-compliant safety concern that is likely to cause a minor disability. Condition should be corrected if it worsens.

The Playground Safety Audits were undertaken for each of the ten play areas in the State College Area School District (SCASD) through the National Recreation and Park Association (NRPA).

The Playground Safety Audits assess for compliance with ASTM F1487 (Standard Consumer Safety Performance Specification for Playground Equipment for Public Use), CPG 120 (U.S. Consumer Product Safety Commission, Public Emergency Use Zones), and the American with Disabilities Act of 1990 (ADA). The Playground Safety Audits include a Priority Ranking System to then provide an overview of each of the ten sites, with photographs, recommendations for the design of existing and future play areas, and which among our priority rankings might be the best priority for each site.

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PARK FOREST ELEMENTARY

- Building was built in 2005.
- Most equipment was installed at time of construction.
- No equipment does not have correct use zone.

PARK FOREST MIDDLE

- Limited playground (no compliance issues)

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PARK FOREST MIDDLE

- Limited playground (no compliance issues)
NATURE PLAY

Successful nature play fosters a love of the outdoors, while also supporting children’s need for active and passive play.

Vestibular stimulation (spinning, swinging, and being upside down) support. These physical sensations also help with emotional regulation, supporting children’s need for active and passive play.

Successful nature play fosters a love of the outdoors, while also supporting children’s need for active and passive play.

C. PLAYFUL LEARNING: A few schools seemed to have a culture of nature play, including plants, climbing, digging, and rolling.

A culture of nature play isexperimented on both the installations provided, as well as unplanned policies regarding play throughout the District.

Some schools were relaxed in their policies related to nature play, while others were more strict, explicitly stating that natural areas were not to be used, and even removing similar areas. Some of these spaces are not easily visible. If these types of spaces are to be used as educational signage.

DIGGING: Every school within the District had evidence of digging throughout the District.

Children were frequently seen collecting sticks, pebbles, rocks, and stone. Loose parts (sticks, acorns, leaves, and rocks) were a crucial part of the nature play experience and are recommended. Stumps and tree trunks were also a great addition to the District should be related as much as possible.

Vestibular stimulation (spinning, swinging, and being upside down) support. These physical sensations also help with emotional regulation, supporting children’s need for active and passive play.

Successful nature play fosters a love of the outdoors, while also supporting children’s need for active and passive play.

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Successful nature play fosters a love of the outdoors, while also supporting children’s need for active and passive play.

Vestibular stimulation (spinning, swinging, and being upside down) support. These physical sensations also help with emotional regulation, supporting children’s need for active and passive play.
EASTERY PARKWAY ELEMENTARY SCHOOL

- Replace all surfacing, not compliant with ADA guidelines.
- Accessible path, ensure compliant route to play equipment.
- Grass area potential for nature play: topographic changes, edged with mature trees and shrubs.

CORL ELEMENTARY SCHOOL

- Remove all existing equipment and surfacing, non-compliant with CPSC, ASTM, and ADA guidelines.
- No equipment is currently at hazard, replacement should occur within 1-2 years.
- Potential accessible path, ensure compliant route to play equipment.
- Grass area potential for nature play: topographic changes, edged with mature trees and shrubs.

PRIORITY ONE

- None

PRIORITY TWO

- Swings
- Slide

PRIORITY THREE

- Fitness Area

PRIORITY FOUR

- Steppers
- Climber
- Rocker

PRIORITY FIVE

- Safety Labels
ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant; however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FENCING: Playground is near an adjacent high volume street. It is recommended that fencing or a barrier be installed between the play area and the street.

PRIORITY ONE: None.

PRIORITY TWO:

FITNESS EQUIPMENT: Does not appear to be made of treated wood, has visible rust, has some wood degradation, and could fail. Either remove equipment or replace elements.

PRIORITY THREE:

SLIDE: Structure has visible rust. Solder rust has compromised the structural integrity of the metal and could fail. Either remove equipment or replace elements.

PRIORITY FOUR

STEPPERS: Steppers plastic shell is cracked. Recommend replacement within the next 1-2 years, or when equipment breaks.

RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced. Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

PRIORITY FIVE

SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:

• Age ranges (2-5 and 5-12)
• Adult supervision recommended
• Manufacturer’s identification
• Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
• Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (touching paint is to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

FENCING: Recommend installing fencing or a barrier between the play area and parking lot.
FERGUSON ELEMENTARY SCHOOL

PRIORITY ONE: None.

PRIORITY TWO:

SLIDE: Sides are deformed and conduct rust. Guides for the slides must be reinstalled, as well as replacement of all loose, broken, or rusted connectors.

PRIORITY THREE:

SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.

SANDBOX: Mid box wood is degraded and should be replaced as soon as possible.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended in the play area.

PRIORITY FIVE:

SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
• Age ranges (2-5 and 5-12)
• Adult supervision recommended
• Manufacturer’s identification
• Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
• Warning about removing helmets and drawstrings
• Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant, however, and is recommended to be replaced by Engineered Wood Fiber or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FEASIBILITY: Replacement of surfacing, not compliant with ADA guidelines.

Consider fence between play area and parking.

Grass/tree area potential for nature play: topography, edged with mature trees and shrubs.

SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended in the play area.

PRIORITY FIVE:

SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
• Age ranges (2-5 and 5-12)
• Adult supervision recommended
• Manufacturer’s identification
• Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
• Warning about removing helmets and drawstrings
• Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant, however, and is recommended to be replaced by Engineered Wood Fiber or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FEASIBILITY: Replacement of surfacing, not compliant with ADA guidelines.

Consider fence between play area and parking.

Grass/tree area potential for nature play: topography, edged with mature trees and shrubs.

FEASIBILITY: None.

PRIORITY TWO:

SLIDE: Slide is weathered and needs to be replaced. All rusted metal and connectors need to be replaced. Some rust has compromised the structural integrity of the metal and could fail if not replaced as soon as possible.

PRIORITY THREE:

SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended in the play area.

PRIORITY FIVE:

SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
• Age ranges (2-5 and 5-12)
• Adult supervision recommended
• Manufacturer’s identification
• Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
• Warning about removing helmets and drawstrings
• Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant, however, and is recommended to be replaced by Engineered Wood Fiber or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FEASIBILITY: Replacement of surfacing, not compliant with ADA guidelines.

Consider fence between play area and parking.

Grass/tree area potential for nature play: topography, edged with mature trees and shrubs.

GRAY’S WOODS ELEMENTARY SCHOOL

PRIORITY ONE: None.

PRIORITY TWO:

TRUCK: Several instances of rusted metal and connectors. Recommend sand and repaint, as well as replacement of all loose, broken, or rusted connectors.

PRIORITY THREE:

SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (2x height) and 6’ on each end of the swing. Areas that are fine, but kickout areas under bottom swing need to be topped off.

GRAY’S WOODS ELEMENTARY SCHOOL

PRIORITY ONE: None.

PRIORITY TWO:

TRUCK: Several instances of rusted metal and connectors. Recommend sand and repaint, as well as replacement of all loose, broken, or rusted connectors.

PRIORITY THREE:

SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended in the play area.

PRIORITY FIVE:

SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
• Age ranges (2-5 and 5-12)
• Adult supervision recommended
• Manufacturer’s identification
• Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
• Warning about removing helmets and drawstrings
• Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant, however, and is recommended to be replaced by Engineered Wood Fiber or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FEASIBILITY: Replacement of surfacing, not compliant with ADA guidelines.

Consider fence between play area and parking.

Grass/tree area potential for nature play: topography, edged with mature trees and shrubs.

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HOUSERVILLE ELEMENTARY SCHOOL

STAGE COLLEGE AREA SCHOOL DISTRICT

PRIORITY ONE: None.

PRIORITY TWO:

CLIMBER: Structure has flaking paint and rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.

NOTED AREAS OF RUST: Bottoms of steppers, all swing attachments, and some swing chains, stairs at newer (orange plastic) composite structure, and hardware at backboard of basketball hoops.

These areas did not appear to have advanced rust that compromised the metal.

RECOMMENDATIONS: Recommended to be replaced by Engineered Wood Fiber, or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FENCING: Playground is near an adjacent parking area. It is recommended than fencing or a barrier be installed between the play area and the parking area.

PRIORITY THREE:

SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings. No surfacing deficiencies are currently in hazard, recommended replacement in the next 1-2 years.

ACCESSIBILITY: Surfacing should be full depth, recommended replacement in front and rear (for 2x height) and 6’ on each end of swings. No surfacing deficiencies are currently in hazard, recommended replacement in the next 1-2 years.

FINISH: Elements with areas of worn paint are recommended for repainting (finishing paint is to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

SCHOOL BUILDING

PRIORITIES:

1. Truck climber does not have compliant area and contains areas of head entrapment. It should be removed as soon as possible.

2. CLIMBER: Structure has flaking paint and rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.

3. HORIZONTAL: Frame is broken (bottom step of composite climber), another fastener is loose (panel on composite climber). Recommend replacement as soon as possible.

4. RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced. Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

5. SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
   - Age ranges (2-5 and 5-12)
   - Adult supervision recommended
   - Manufacturer’s identification
   - Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
   - Warning about removing helmets, drawstrings, and items around the neck
   - Warning about hot surfaces and burns

HOUSERVILLE ELEMENTARY SCHOOL

PRIORITY ONE: None.

PRIORITY TWO:

TRUCK: Truck climber does not have compliant area and contains areas of head entrapment. It should be removed as soon as possible.

FINISH: Elements with areas of worn paint are recommended for repainting (finishing paint is to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

FINISH: Elements with areas of worn paint are recommended for repainting (finishing paint is to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

SCHOOL BUILDING

PRIORITY ONE: None.

PRIORITY TWO:

CLIMBER: Structure has flaking paint and rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.

PRIORITY FOUR:

FENCING: Playground is near an adjacent parking area. It is recommended than fencing or a barrier be installed between the play area and the parking area.

PRIORITY FIVE:

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended.
PRIORITY ONE:
COMPOSITE STRUCTURE: Multiple locations (at wheel connection and on underside of platform) where bolts have more than 2 threads showing. This has a very high likelihood of injury and must be remedied immediately.

PRIORITY TWO:
COMPOSITE STRUCTURE: Almost all connections on structure are rusted. Play reconfiguration shows metal rust must be remedied as soon as possible.

PRIORITY THREE:
CLIMBER: Structure is aged with visible rust, that could have compromised the metal. Recommend replacement in 1-2 years.
SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.
ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface. An accessible path of travel must connect the building to each piece of play equipment designated as accessible.
FENCING: Playground is near an adjacent parking area. It is recommended than fencing or a barrier be installed between the play area and the parking area.

PRIORITY FOUR:
RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced. Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

PRIORITY FIVE:
SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
• Age ranges (2-5 and 5-12)
• Adult supervision recommended
• Manufacturer’s identification
• Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth to the manufacturer’s specifications
• Warning about removing helmets and drawstrings
• Warning about hot surfaces and burns
FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).
RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.
**Mt Nittany Middle School**

- Play area consists of surface lot and tetherball. No compliance issues.
- Accessible path, ensure compliant route to play equipment.
- Grass area potential for nature play: topographic changes, mature trees.
- Accessible ramp potential for play: parkour/skating.

**Park Forest Elementary School**

- Replace all surfacing, not compliant with ADA guidelines.
- Accessible path, ensure compliant route to play equipment.
- Grass area potential for nature play: large open area edged with mature trees and shrubs.
- Wooded area potential for nature play: boulders, mature trees, and topography.

- Replace all surfacing, not compliant with ADA guidelines.
- Accessible path, ensure compliant route to play equipment.
- Grass area potential for nature play: large open area edged with mature trees and shrubs.
- Wooded area potential for nature play: boulders, mature trees, and topography.
PRIORITY ONE: None.

PRIORITY TWO:

COMPOSITE STRUCTURE 1: Structure does not have compliant use zone, has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal. It should be removed within the next 1-2 years.

COMPOSITE STRUCTURE 2: Structure has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal. It should be removed within the next 1-2 years. Order the replacement, advise or consider alternative uses. This should be removed immediately.

FITNESS EQUIPMENT: Fitness equipment does not have correct use zone for child. Recommended installation of surfacing or pruning adjacent shrubs as soon as possible.

PRIORITY THREE:

SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings. Recommended installation of surfacing as soon as possible at swings near building.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surfacing.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

PRIORITY FOUR:

RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced.

Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

NOTED AREAS OF RUST: Rocker connections, swing chains and connectors. These areas did not appear to have advanced rust that compromised the metal.

PRIORITY FIVE:

SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:
- Age ranges (2-5 and 5-12)
- Adult supervision recommended
- Manufacturer’s identification
- Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
- Warning about removing helmets and drawstrings
- Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries.

PARK FOREST MIDDLE SCHOOL

PARK FOREST ELEMENTARY SCHOOL

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries.

FITNESS EQUIPMENT: Fitness equipment does not have correct use zone for child. Recommended installation of surfacing or pruning adjacent shrubs as soon as possible.
RADIO PARK ELEMENTARY SCHOOL

Building under construction. Future court and play areas identified on construction plans. No play equipment currently on site.

Potential accessible path, ensure compliant route to play equipment.

Wooded area potential for nature play: dense canopy of mature trees, grass, and boulders.
COMMUNITY ENGAGEMENT
STAKEHOLDER MEETING: JAN 16, 2019

Metcalfe and Studio Ludo conducted a meeting with the district appointed stake holders – a group that consists of a cross section of representation for each of the schools. This group of 50, worked through the above manner to develop a list of ideas of how children play. The Delta program did not participate in this exercise. The intent of this meeting was to solicit feedback from the stakeholders about their overall ideas of what play could be or shouldn’t be within the district. This wasn’t about what equipment should be at each school, but NOW the children play or HOW they should not play.

The approximately 50 stakeholders received a number randomly at the door upon entering the meeting room to “mix up” the attendees at each table – there were six tables in all.

For the first exercise, each participant was to write down or use one of the provided images to explain their fondest play memory from their childhood. They then posted their memory in the center of the table. After their turn at posting their memory, the larger group would then talk about their memory, with the larger group. Many (not much of the memorials of play) shared them, but even on playgrounds. Playing in the backyard, creeks, woods, riding lines and climbing trees were very popular. Kickball, swings and merry-go-rounds were also mentioned often.

WHAT IS YOUR FAVORITE PLAY MEMORY?
For the second half of the meeting, each table was to write down, list or use provided images to describe what they thought “Play is,” and what “Play is Not” for the district. The attendees at each table were to discuss, agree, argue, disagree – but come to some conclusion for each category. Each table then had a volunteer or two present their boards to the larger group as a summary of their table’s discussion.

PLAY AT STATE COLLEGE IS...

Some of the major “Play is Not” concepts include water play and hazardous play. While many thought water would be fun and educational, the consensus was that water and mud would be tough for teachers and staff to deal with coming back into the classroom. “Play is” themes included physically challenging the children and risk taking, imaginative play and using natural play elements such as rocks, logs and hideouts.
As part of the student survey process of the Masterplan, students were asked to draw pictures and fill out a “mad lib” of what their new play space could be. Examples of those drawings are on the following page.

The results show that the students, using what they know of playgrounds and adding in their imaginations of what could be, focused on “woo” spaces, risky spaces, and social spaces in particular.

*Woo spaces* give us awareness of our bodies in an environment. The special pattern of those spaces, such as sliding and swinging, make us feel our surroundings in ways that are atypical to our everyday movement.

*Risky spaces* help us challenge ourselves…at our own pace. We develop physically as we conquer those challenges and develop mentally as well. We are not depending on someone else to assess a situation for us, but understanding our own abilities in the process.

As humans, we are social beings. Whether we are playing a ball game on the blacktop or grass or nestled close to our friends in a treefort, social cues and communication are developed in these environments.

### WHAT KIND OF ADVENTURES COULD YOU HAVE HERE?

<table>
<thead>
<tr>
<th>Type</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woo Spaces</td>
<td>Vestibular, proprioceptive, ability to sit</td>
</tr>
<tr>
<td>Risky Spaces</td>
<td>Critical thinking, confidence</td>
</tr>
<tr>
<td>Social Spaces</td>
<td>Communication, empathy, social cues</td>
</tr>
<tr>
<td>Build Spaces</td>
<td>Creativity, collaboration</td>
</tr>
<tr>
<td>Solitary Spaces</td>
<td>Mental health, emotional regulation</td>
</tr>
</tbody>
</table>

**SWINGS ADVENTURE COURSE**

- Blacktop/Field
- Sandbox/Ball Pit Bench
- Other
- Treehouse
- Hideout
- Bench
- Other

**SLIDES**

- Jungle Gym
- Other
- Treehouse
- Bench
- Other

**MONKEY BARS**

- Outdoor
- Jungle Gym
- Other
- Treehouse
- Bench
- Other

**SWING**

- Jungle Gym
- Other
- Treehouse
- Bench
- Other

**SLIDES**

- Jungle Gym
- Other
- Treehouse
- Bench
- Other

**BASKETBALL COURSE**

- Basketball Court
- Other
- Treehouse
- Bench
- Other

**TREES**

- Jungle Gym
- Other
- Treehouse
- Bench
- Other

**OTHER**

- Jungle Gym
- Other
- Treehouse
- Bench
- Other

**WHAT KIND OF ADVENTURES COULD YOU HAVE HERE?**

**TELL US A STORY ABOUT WHAT WILL HAPPEN IN YOUR PLAY SPACE:**

![Image of a playground drawing]
What is your favorite play memory?

"Digging in the dirt, constructing, I loved the open palate of making anything I wanted. It was so much imagination."

"I loved that we had a free secret space to hang out in after we had worked out all our energy."

"In the yard, all street kids of all ages came together..."

"I worked in special ed. Kids with wheelchairs are so limited with the other kids. There is a need to have a special place under the equipment that these kids can sit and have the opportunity to interact with their peers."

"Space for quieter kids to feel comfortable in...definitely a quiet, personal area with seating for more than one or two kids at a time."
Following a small group design meeting several weeks earlier, we conducted a design input meeting with approximately 50 parents and staff and 30 students. The meeting consisted of two groups working concurrently then coming together at the end.

The students were set up in five groups and given a fictitious site with a single nature play design element with which to work. Three elements were the base components the design teams were using for each of the schools. The groups consisted of boulders, logs, vertical sticks, stumps and hills. After designing in their assigned groups with their singular element, they were then tasked with combining their thoughts, elements and designs on a singular site. They then presented their designs to the larger parent/staff group. Some of the major points from the students’ presentations included designing for inclusivity, desire for secret spaces, problem-solving and group play opportunities.

The combination model showing the 5 design elements of boulders, logs, vertical sticks, stumps and hills working together.

While the students were exploring the relationships of the nature play elements, Metcalfe and Studio Ludo presented the current in-process designs for each of the schools, fielding questions and comments throughout the evening. Some of the major points of conversation with the parents and staff included reinforcing inclusivity as a driver of design, gardens, quieter areas for kids who don’t want to play, importance of asphalt for play during snow/rain and enough green space for ball play.

Racing slides, tree stump paths, a log maze, secret cave hide out, log piles, and balancing logs were used by the students to design their playground.

DESIGN MEETING
The design team conducted four community engagement meetings in April 2019, each meeting focusing on about three schools per meeting. The meeting focus of only a few schools at a time was structured to encourage more direct and specific feedback from community members and staff of those schools. Not all of the discussion for each of the school communities.

### COMMUNITY ENGAGEMENT MEETING

**APRIL 10, 2019**

The design team discussed Grays Woods Elementary, Park Forest Elementary, and Park Forest Middle School. A small group of community members participated in the conversation providing insight. A few of the comments included encouraging play in the neighborhood area of Grays Woods as a response for the area’s concern for vehicles obstructing view of adjacent classrooms and considering benches as social spaces/feeding areas combined for Park Forest Middle School. The design team is proposing stainless steel group slides, as well as a slide, a hill, and a “boulder” as a playground. In a “classroom,” the design team worked with the community to remove those mounds to allow for an open flat space for group play events. The team was asked to remove the area where group slides are proposed on the playground as well as add a group swing. The design team worked with the community to include a more individual swing, but still include a group swing. The team also commented on having basketball hoops and confirming the number of swings. Many of the proposed designs for the district included group swings. The design team worked with the community to include more individual swings, but still include a group swing. The second evening we engaged with about ten community members from Radio Park Elementary and Corl Street Elementary. The design team worked with the community to include more individual swings, but still include a group swing. The second evening we engaged with about ten community members from Radio Park Elementary and Corl Street Elementary. The team was asked to remove the areas where the group slides are proposed on the playground as well as add a group swing. The design team worked with the community to include more individual swings, but still include a group swing.
COMMUNITY ENGAGEMENT MEETING
APRIL 17, 2019

The first evening approximately 15-20 community members attended the conversation about Delta Park and Ferguson township. Community Engagement comments and discussion tended toward ADA accessibility and encouraging more interactive play for children with sensory issues. Music devices, a play house and textures were mentioned as more interactive play for children with sensory issues.

There was limited discussion on Mount Nittany Park and Middle schools. The main concern was about the proposed zipline. Some of the favorite design proposal of the Delta students in attendance included the group swing and the group slide. The students appreciated the design for the nature climbers as they also encourage socializing and connecting with friends. It was mentioned that the fields at the top of the hill would accommodate any ball field play. Ferguson Elementary mentioned a concern for stick play in the area designated for small parts play for building animal architecture or stacking sculpture. We discussed that there are several other area designated for small parts play for building animal architecture or stacking sculpture. We discussed that there are several other

COMMUNITY ENGAGEMENT MEETING
APRIL 11, 2019

The last evening included conversation about Mount Nittany Elementary School, Mount Nittany Middle School and Spring Creek Elementary. There were about 10-15 community members in attendance including several from the Radio Park community. They were limited comments on Mount Nittany Elementary and Middle schools. The main comment was that they were happy to have the conversation and were hoping to see the proposed trees were native species, a slide and more climbing (traditional equipment type). Radio Park comments included removing the proposed zipline, including a slide and climbing equipment, more vertical play and that it felt too spread out.
ONLINE COMMENTS

The State College Area School District provided a link on the district’s website for those community members who could not attend any of the four community meetings held in early/mid April, 2019. While not all of the comments could be incorporated into the master plan process, the team took care to review with the district what could be considered during the implementation design process for each phase. Not all comments/suggestions were implemented due to restraints and considerations not specified in the section and due to the fact that some comments/suggestions conflict with others. However, it is a great feature to promote conversation and input and goes a long way to ensure many points of interest are considered. 


OVERALL NARRATIVE

We propose creating nature-based playful interactions that find inspiration in the regional landscape of the ridge-and-valley topography of the Appalachian mountains. The opportunity for play in the landscape is highlighted by operations of modification, addition, deletion and opportunistic interventions on the land. The region’s long, even ridges and continuous valleys and the challenges of moving against them perpendicularly are reimagined at a different scale and playfully reinterpreted. Each site has a slightly different approach based on the individual landscape and spirit of the community. These influences are expressed in the experiential, play and learning opportunities on each site.

We have used landforms, boulders, logs, trees and grasses – among other things – to create full body interactions, social spaces and pensive opportunities. Group play is emphasized with slides and swings for more than one to use at a time. Open-ended play is at the heart of this process.
PLAYGROUND MASTER PLANS
Group Swings
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Rod Forest
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit

Group Embankment Slide
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Landscape Mounds
- Vestibular, Proprioceptive, Ability to sit

ADA Path

Wheelchair Swing
- Vestibular, Proprioceptive, Ability to sit

Existing Swings (8), Slide, & Seesaw to Remain

Teacher Lookout

Playhouse

Balance Logs
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit

Existing Balance Beam and Steppers to Remain

Existing Swings (15) to Remain

Existing Asphalt to Remain

Ball Play Area

### ACTIVITY DIAGRAM

### ACCESSIBILITY DIAGRAM
PHASE A PLAN

1. Ada Paths
2. Relocated Wheelchair Swing
3. Existing Swings (15) to Remain
4. Shade Trees
5. Grass Mounds
6. Log Climber Wall
7. Mound with Pathway Climber
8. Existing Swings (8), Slide, and Seesaw to Remain
9. Existing Equipment (Balance Beam, Steppers) to Remain
10. Grass Mound with Boulder Seating

COMPLETED MASTER PLAN

1. Group Embankment Slide
2. Accessible Surfacing (EWF)
3. Balance Logs
4. Rod Forest
5. Log Scramble
6. Group Swings
Landscape Mounds
- Vestibular, Proprioceptive, Ability to sit, Creativity

Rod Forest
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit

Lookout platform/Tinkerscape
- Creativity, Collaboration, Creativity

Tree unsafe path
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit

Teacher Landing

Equipment

Instructor Garden
- Communication, Empathy, Social Cues

Skated Seating
- Mental Health, Emotional Regulation

Roller Rink

Group Swings
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Shaded Seating

Pollinator Garden
- Communication, Empathy, Social Cues

Group Embankment Slide
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Recommended Asphalt Area

Ball Play Area

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
PHASE A PLAN

1. Group Swings
2. Swings
3. Rod Forest
4. ADA Path
5. Shade Trees & Benches
6. Mound with Pathway Climber
7. Rock Climber
8. Tree Climber Equipment
9. Twister Equipment
10. Basketball Hoops (2)
11. Tree Cookie Path

COMPLETED MASTER PLAN

1. Lookout platform/Tinkerscape
2. Group Embankment Slide
3. Log Stepper Mound
4. Grass Mound
5. Boulder Mound
Group Embankment Slide
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Fractured Climber
- Critical Thinking, Confidence, Communication, Empathy, Social Cues

Log and Boulder Scrable
- Critical Thinking, Confidence, Creativity, Collaboration

Boulder Seating
- Mental Health, Emotional Regulation

ADA Path
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit

Existing Equipment (Gymnastics Bars) to Remain

Teacher Lookout
- Physical Activity, Communication, Vestibular, Proprioceptive, Ability to sit

Existing Equipment (Composite Structure, Swings (8)) to Remain

Existing Equipment (Composite Structure, Tunnel, & Swings (6)) to Remain

Existing Asphalt Area

Ball Play Area
LOG & BOLDER SCRAMBLE
GROUP EMBANKMENT SLIDE
ADA PATH
SHADE TREES
EXISTING EQUIPMENT (COMPOSITE STRUCTURE, TUNNEL, & SWINGS (6)) TO REMAIN
EXISTING EQUIPMENT (GYMNASTICS BARS) TO REMAIN
EXISTING EQUIPMENT (COMPOSITE STRUCTURE, SWINGS (8)) TO REMAIN

FRACURED CLIMBER/OUTDOOR CLASSROOM
TREE COOKIE PATH
ADA SURFACING (EWF)
HILLSIDE STONE SLAB SEATING
LOG AND BOLDER SCRAMBLE
NATURE PLAY & EQUIPMENT PLAY DIAGRAM

CORL STREET ELEMENTARY SCHOOL
Landscape Mounds - Vestibular, Proprioceptive, Ability to Sit, Creativity
Log and Boulder Scramble - Critical Thinking, Confidence, Collaboration
Boulder Seating - Mental Health, Emotional Regulation
Group Embankment Slide - Communication, Empathy, Social Cues
Pollinator Garden
Equipment
Teacher Lookout
Kick Path
Log Scramble
Stacked Log Mound
Tree Cookie Path
Recommended Asphalt Area
Ball Play Area

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
PHASE A PLAN

1. Group Swings
2. Swings
3. Shade Trees
4. Log & Boulder Scramble
5. Grass Mound
6. Stacked Log Mound
7. Parkour Climber
8. Twister Equipment
9. Pollinator Garden
10. Grass Mound with Stone Slab Seating
11. Basketball Hoops (2)

COMPLETED MASTER PLAN

1. Group Embankment Slide
2. Log Stepper
3. Hillside Stone Slab Seating
4. Tree Cookie Path
5. Accessible Path
Outdoor Classroom
- Communication, Empathy, Social Cues

Tree Cookie Path
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit

Tinkerscape
- Creativity, Collaboration

Landscape Mounds
- Vestibular, Proprioceptive, Creativity, Ability to sit

Log & Boulder Scramble
- Creativity, Collaboration, Vestibular, Proprioceptive

Existing Equipment (Gymnastics Bar, Slide (2), Tunnel, Rocker) to Remain

Teacher Lookout

Existing Asphalt Area

Stacked Log Mound

Boulder Mound

Ball Play Area

Relocated Playhouse

Existing Swings (8) to Remain

Existing Equipment (Gymnastics Bars, Slide, Swings (6)) to Remain

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
**PHASE A PLAN**

- Log & Boulder Scramble
- Stacked Log Mound
- Tinkerscape
- Shade Trees
- Relocated Playhouse
- Mound with Pathway
- Climber
- Grass Mound
- Boulder Mound
- Balance Log
- Existing Equipment (Gymnastics Bar, Slides (2), Tunnel, Rocker) to Remain
- Existing Swings (8) to Remain

**COMPLETED MASTER PLAN**

- Wood Bridge
- Tree Cookie Path
- Accessible Surfacing
- Outdoor Classroom
Rod Forest
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit

Landscape Mounds
- Vestibular, Proprioceptive, Ability to sit, Creativity

Recommended Asphalt Area

Log & Boulder Scramble
- Critical Thinking, Confidence, Creativity, Collaboration

Equipment

Teacher Lookout

Group Embankment Slide
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Ball Play Area

Existing Equipment to be reinstalled

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM

Transfer Station
Accessible Equipment
Accessible Path
Accessible Surfacing
PHASE A PLAN

- Group Swings
- Swings
- Rock Forest
- Shade Trees & Benches
- Stacked Log Climber
- Mound with Pathway Climber
- Log & Boulder Scramble
- Basketball Court
- Twister Equipment
- Existing Equipment to be reinstalled

COMPLETED MASTER PLAN

- Group Embankment Slide
- Parkour Equipment
- Log Stepper Mound
PARK FOREST ELEMENTARY SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM
Log and Boulder Scramble
- Critical Thinking, Confidence, Creativity, Collaboration

Group Embankment Slide
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social

Landscape Mounds
- Vestibular, Proprioceptive, Ability to sit, Creativity

ADA Path

Bulldozer Pathway
- Confidence, Collaboration, Vestibular, Proprioceptive, Ability to sit

Stacked Log Mound
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social

Group Swings
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social

Existing Equipment (Swings (2), Not Climb) to Remain

Teacher Lookout

Tree Cookie Path
- Confidence, Collaboration, Vestibular, Proprioceptive, Ability to sit

Outdoor Classroom

Existing Asphalt Area

Ball Play Area

Existing Equipment (Slide, Seesaw, Rock Climber) to Remain

Existing Equipment (Gymnastics Bars, Balance Beam) to Remain

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
**PHASE A PLAN**

1. ADA Path
2. Mound with Pathway Climber
3. Grass Mound
4. Stone Mound and Outdoor Classroom
5. Log & Boulder Scramble
6. Red Forest
7. Existing Equipment (Swings (12) Net Climber) to Remain
8. Existing Equipment (Slide, Seesaw, Rock Climber) to Remain
9. Existing Equipment (Gymnastics Bars, Balance Beam) to Remain

**COMPLETED MASTER PLAN**

1. Group Swings
2. Accessible Surfacing
3. Stacked Log Mound
4. Tree Cookie Path
5. Group Embankment Slide
6. Log Steppers
7. Boulder Mound
NATURE PLAY & EQUIPMENT PLAY DIAGRAM

PARK FOREST MIDDLE SCHOOL
Log and Boulder Scramble
- Critical Thinking, Confidence, Creativity, Collaboration

Group Embankment Slide
- Fine Motor, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Tentstacle
- Creativity, Collaboration, Communication

Hillside Hangout
- Communication, Empathy, Social Cues

Tinkerscape
- Creativity, Collaboration, Communication

Hammock Hangout
- Communication, Empathy, Social Cues

Swings
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Existing Asphalt Area
PHASE A PLAN

1. Group Swings
2. Swings
3. Log & Boulder Scramble
4. ADA Path
5. Shade Trees & Benches
6. Group Embankment Slide
7. Log Scramble

COMPLETED MASTER PLAN

1. Group Embankment Slide
2. Log Scramble
3. Stone Slab Seating
4. Hammock Hangout
MT. NITTANY ELEMENTARY SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM
Landscape Mounds
- Vestibular, Proprioceptive, Ability to sit, Creativity
Log & Boulder Scramble
- Critical Thinking, Confidence, Creativity, Collaboration
Tree Cookie Path
- Collaboration, Vestibular, Proprioceptive, Ability to sit
Log Mound
- Vestibular, Proprioceptive, Ability to sit, Creativity
Existing Swings (4) and Wheelchair Swing to Remain
Parkour Equipment
Teacher Lookout
Existing Equipment (Slide, Swing, Climber, Group Swing, gymnastics Bar, Seesaw) to Remain
Existing Swings (10) to Remain
Existing Swings (4) to Remain
Existing Asphalt Area
Ball Play Area

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
PHASE A PLAN

- Parkour Climber
- ADA Access
- Shade Trees
- Grass Mound with Stone Slab Seating
- Grass Mound
- Mound with Pathway Climber
- Split Log Mound
- Log and Boulder Scramble
- Balance Beam
- Existing Swings (4) to Remain
- Existing Swings (10) to Remain
- Existing Swings (4) and Wheelchair Swing to Remain
- Existing Equipment (Slide, Spinners, Climber, Group Swing, Gymnastics Bars, Seesaw) to Remain

COMPLETED MASTER PLAN

- ADA Surfacing (EWF)
- Tree Cookie Path
CONCEPT RENDERING

MODEL IMAGERY
Landscape Mounds
- Vestibular, Proprioceptive, Ability to sit, Creativity

Fractured Climber
- Critical Thinking, Confidence, Communication, Empathy, Social Cues

Benches

Art Zone
- Creativity, Collaboration

Ball Play Area
- Communication, Empathy, Social Cues

Group Swings
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Seating/Hang-out
- Communication, Empathy, Social Cues

Tree cookie path
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit

Existing Asphalt Area

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
DELTA PROGRAM

NATURE PLAY & EQUIPMENT PLAY DIAGRAM
Group Embankment Slides
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues

Log and Bolder Scramble
- Critical Thinking, Confidence, Creativity, Collaboration

Tree Climbing Climber
- Critical Thinking, Confidence, Communication, Empathy, Social Cues

Garden Seating Steps
- Mental Health, Emotional Regulation

Red Fristed
- Critical Thinking, Confidence, Vehicle, Proprioceptive, Ability to sit

Aqua Park
- Equipment

Log Steppers
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit

Recommended Asphalt Area

ACTIVITY DIAGRAM

ACCESSIBILITY DIAGRAM
MAINTENANCE OVERVIEW
PLANTS AND VEGETATION

Plants attracting creatures, such as birds, butterflies, and insects, can enable children to interact with nature, discover, and learn about natural systems. They also provide supply of live elements and demonstrate seasonal changes.

Visual Inspections: Playgrounds should have a daily visual inspection, followed by a weekly inspection for special equipment, and monthly inspections of all equipment. The inspections should include records of equipment, plans and specifications, maintenance records, and vandalism. The staff should be trained in plant care and be able to identify issues related to health and safety, such as structural integrity of the metal, and can significantly shorten its lifespan. Additionally, fasteners and bolts should be checked for rust. A level surface is required for wheelchair access and ADA-compliant playgrounds.

Annual inspections: Playgrounds should have annual inspections, including visual inspections, to check the structural integrity of the metal, and to replace any boards that are broken or missing. This table should be monitored daily, at a part of the visual inspection, in case weather and use modifies the environment. In general, the inspections should include removal of debris, sharp objects, and fallen objects.

Trees and Climbing

Children naturally want to climb trees, and loose boulders offer rich opportunities for climbing. The State College Area School District (SCASD) should determine if trees within the playgrounds are allowed to be climbed during school and recess times.

Risk benefit assessment is a good practice to determine if trees are acceptable play elements within a playground. The Building Design and Construction advises that playgrounds should be designed to meet the USA standard for safety, which includes proper drainage, accessibility, and ADA compliance.

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SITE NARRATIVES

Corl Street Elementary

This site is located at 235 S. Corl St., State College, PA 16801, in State College Borough. The proposed playground is located to the east of the building. Proposed playground area includes a wedge shaped high flat area with existing playground in place, with partial wood chip ground cover and partial asphalt cover. From there, a steep sloped hill continues downward to a parking lot on one side, the school in the center, and the low proposed playground area to the far side. The hill is currently fenced off for safety, with dirt ground cover due to active construction in the area. The low area of proposed playground is a flat dirt and gravel mixture, with dirt mounds and construction debris due to active construction. Stormwater is managed at the site via overland sheet flow from high playground area, downhill, then through existing one to two storm grates. One grate is in a low area near the parking lot and the other is located on the far end of the low playground area. Based on a review of the approved land development plans for the current construction project, the inlets appear to be part of two separate subsurface stormwater management facilities. The final placement of the proposed mounds and tree plantings should be designed to allow for positive drainage and not interfere with the function of the subsurface stormwater facility.
Delta Program

The site is located at 650 Westerly Pkwy, State College, PA 16801 (North of Westerly Parkway) in State College Borough. The proposed playground is located to the North of the building. The proposed playground area consists of a steeply sloped, densely wooded hill adjacent to the building. The density of the woods made it challenging to identify additional features or challenges on the hillside. Directly next to the building are concrete platforms near doorways, and an asphalt driveway extending part way across the site. The lowest grades are at two separate doorways. Beyond the site, on the high side of the hill, are flat, grass sports fields. The site slopes towards the building and all stormwater from the hill is directed back to the building. There are floor drains near the doors of the buildings at multiple locations, intended for a collection and carry off of the stormwater runoff from the hill. It is unclear where the drains direct the stormwater.

The grading, directing stormwater towards the building, creates design challenges. The playground design appears to envision clearing much of the tree and brush cover from the hillside, which will increase runoff towards the building. In order to accomplish this, it is anticipated that a considerable amount of additional excavation will be necessary, which will also exacerbate the drainage issue. The stormwater drainage and conveyance system will need to be redesigned to minimize the potential of runoff entering the building.

There are also overhead power lines and poles in the area of the proposed playground. The Borough does not allow development within the right-of-way easements of utilities but it is unclear how large the easements are for these power lines and poles or whether they will directly conflict with the design layout. There will be an impact on aesthetics regardless.

Easterly Parkway Elementary

The site is located at 234 Easterly Parkway, State College, PA 16801 in State College Borough. The proposed playground is located to the northeast of the building. This large site includes a set of existing playground areas in an open space on the high area above a athletic field. The proposed playground is intended to be located in the existing and new grass open space, and an asphalt walkway cutting through the site. This provides access to the park and trail below, all on campus properties. The playground is managed at the site by the school and is to be located in the existing playground area. The new playground will provide additional open space and create new multipurpose spaces for students and faculty.

At the high south end of this area, the proposed design includes a series of large trees that are a running renovation. It is noted that just south of the swing set in proximity of the proposed trees are existing garden boxes, which are proposed to remain. It is anticipated that the proposed trees may block sunlight to the garden boxes.
The proposed playground is located in the core area and continuing to the east of the building.

The center of the core area consists of a mowed grass landscape, with tree and shrub ground cover towards the west. Stormwater runs towards the center of the core area, as well as to the north. The proposed playground is split into two locations, one in the core area of the site and the other to the north of the core area.

To the north of the building in the location of the proposed playground is an existing grass swale, which receives an outflow pipe delivering stormwater from the parking lot. The proposed playground development for this site appears to be more southerly in feature and around the location of this grate may manage the area's stormwater.

The site is located at 215 W. Pine Grove Rd., Pine Grove Mills, PA 16868, in Ferguson Township. The proposed playground is located at 100 Hornbeck Road, Dallastown, PA 17313, in the Township Elementary School District.
The site is located at 656 Brandywine Dr., State College, PA 16801, in College Township.

The proposed main playground area is located to the north of the building, with a small extension located to the east of the building.

The proposed playground area is currently a grass-covered island of open space bordered by curbing and surrounded by paved roadway. The open space is adjacent to its high point in the center and continues to slope away towards the road on all sides, forming a soft- rounded area. "Platform area" slopes toward the road on all sides and is surrounded by curbing and a small extension located to the east of the building. To the south of the island is a concrete sidewalk, then a slope leading up to a concrete pedestrian area abutting the building, and to the east is a concrete pedestrian area abutting the building. The main proposed playground area is located to the north of the building, with a small extension located to the east of the building.

The main proposed playground area is currently a grass-covered island of open space bordered by curbing and surrounded by paved roadway. The open space is adjacent to its high point in the center and continues to slope away towards the road on all sides, forming a soft-rounded area. "Platform area" slopes toward the road on all sides and is surrounded by curbing and a small extension located to the east of the building. To the south of the island is a concrete sidewalk, then a slope leading up to a concrete pedestrian area abutting the building, and to the east is a concrete pedestrian area abutting the building. The main proposed playground area is located to the north of the building, with a small extension located to the east of the building.

The only challenge noted for this site is associated with the proposed changes in the concrete pedestrian area abutting the building. The design of the proposed improvements will need to consider the existing stormwater drainage features, within the pedestrian area, and may require alterations to those systems to accommodate the new design requirements for the site.

The site is located at 700 Brandywine Dr., State College, PA 16801, College Township. The proposed playground is located to the west of the building.

The proposed location for this playground is the location of an existing playground consisting of a large asphalt play surface, playground equipment, and grass cover. The site slopes slightly away from the building, and stormwater drains to a small swale located to the southeast of the building. The only challenge noted for this site is associated with the proposed changes in the concrete pedestrian area abutting the building. The design of the proposed improvements will need to consider the existing stormwater drainage features, within the pedestrian area, and may require alterations to those systems to accommodate the new design requirements for the site.
Park Forrest Elementary

The site is located at 2181 School Dr., State College, PA 16803, in Patton Township. The proposed playground is to the east of the building.

The site, near to the building, consists of a large existing playground area, including playground equipment with wood chip ground cover, asphalt play surfaces and walkways, and grass covered areas. The portion of the site to the east is steeply sloped away from the building. Beyond this area is a large, moderate to significantly sloped hillside, sloping down away from the building elevation in a choppy, inconsistent pattern. The hillside contains many mature trees, the remnants of old asphalt walkways, curbs and platforms, and an existing playground area at the bottom of the hill. The hill side is partially grass covered, with exposed rocks and boulders, dirt and sand. Stormwater runs overland away from the building towards the hill, then down the hillside and away from the site after the wooded area beyond the site. There are signs of erosion in areas where the disturbative force is encountered.

The signs of erosion create a concern for improvements proposed on the hillside and therefore the design will need to adequately address stormwater to avoid further erosion. Also, on the hillside the proposed embankment slide appears to carry the proposed embankment slide directly into the existing rock-lined swale. The top of the proposed slide is also in close proximity to an existing sanitary manhole. The final location of the proposed improvements should take into consideration the location and function of the existing stormwater management basin.

To the east of the building, the area of the proposed improvements is an existing stormwater management basin. Beyond a narrow walkway lining the building, the site slopes steeply away from the building into the basin. The basin is grass covered, with eastern facing slopes to the basin that is rock lined. In the basin is an east-west extrusion which discharges to the densely wooded area to the south of the basin. The initial concern noted for the section of the proposed improvements is the proximity to the existing and functioning stormwater management basin. The proposed embankment slide appears to be positioned directly into the existing rock-lined swale. The top of the proposed slide is also in close proximity to an existing sanitary manhole. The final location of the proposed improvements should take into consideration the location and function of the existing stormwater management basin.

To the north of the building, the proposal area is at a lower elevation directly next to the building, with steep hillside slopes from high to low towards the building. The hillside is grass covered, with signs of erosion. There is a storm grate near the elevation, which may pose a safety concern. The proposed embankment slide appears to carry the proposed embankment slide directly into the existing rock-lined swale. The top of the proposed slide is also in close proximity to an existing sanitary manhole. The final location of the proposed improvements should take into consideration the location and function of the existing stormwater management basin.
Radio Park Elementary

The site is located at 800 W. Cherry Ln., State College, PA 16803, in State College Borough. The proposed playground is located to the east of the building.

This is an active construction site. The main asphalt play surface is existing and directly next to the building, with fenced construction zones on the remaining 3 sides. The construction zones are currently used for storage and eventual installation of the required play equipment. The areas are temporarily used as staged construction equipment. Beyond the construction zone is an asphalt roadway leading around the building to fire stations. The final roadway is not yet complete and will likely be extended beyond the existing road beyond the construction zone to the open area beyond the road. The same is true for the area beyond the construction zone in the same direction. Beyond the main roadway to the north is a field covered in dirt that is fenced off. Beyond the construction zone in the same direction is an asphalt roadway extending in both directions. The roadway is fenced off beyond the construction zone without any access to the street. Beyond the roadway is a wooded area 10-15 yards deep, beyond which there is an open grassy area of approximately the same width, then more woods beyond that. In the transition area beyond the site exists a large sink hole that is fenced off. The proposed site generally slopes away from the building to allow overland stormwater flow towards the wooded area and ultimately the sink hole. The areas of active construction do not appear to be at final grade elevations but we assume the final grade will provide adequate drainage away from the building. There are two headwalls with stormwater outflow piping on the site. The one to the north appears to collect stormwater from storm grates to the north of the building and carry stormwater under the proposed playground to the outflow, which is positioned just beyond the asphalt roadway. The headwall to the south is similarly positioned just beyond the asphalt roadway and appears to collect stormwater from the building. Both headwalls are located within the footprint of the proposed playground, creating a risk of washout resulting from concentrated flow in those areas. Additionally, a portion of the property is within the FEMA designated 100-year floodplain. Based on the depiction of the floodway found on the approved land development plans for the current project, some of the proposed improvements may be located within the 100-year floodplain.

Spring Creek (Hovener) Elementary

The site is located at 875 Elmwood St., State College, PA 16801, in College Township. The proposed playground is located within the courtyard and to the east of the building.

This is an active construction site. The core area of the building is currently dirt-covered due to construction and is graded such that stormwater flows into the core and is collected in a storm inlet on the site. Beyond the core area there is a high flat area, dirt-covered, which appears to be planned for an asphalt or concrete play surface. On the building side, this flows towards the core area to the north, the building on either side of the core opening, with storm inlets to collect stormwater in the area. On the building side, the area beyond the core appears to be planned for an asphalt or concrete play surface. On the building side, this flows towards the core area to the north, the building on either side of the core opening, with storm inlets to collect stormwater in the area. The high flat area is also the storm inlet on the site. The sloped area to the north is a drainage swale on the site located at the front of the site, which contains on-site soil erosion management structures. The only concern noted for this site is the location of the storm inlet on the site, which is located at the high flat area, which appears to be an existing stormwater management structure. The only concern noted for this site is the location of the storm inlet on the site, which is located at the high flat area, which appears to be an existing stormwater management structure.
PERMITTING

Centre Region COG

All playground sites are within the Centre Regions and Centre Region Council of Governments’ (COG) Permitting requirements apply to all sites. For playgrounds, applicants are required to obtain a commercial building permit for playground equipment. Under current administrative guidelines, compliance with ERSA-Chapter 111 (2011 May 1) ERSA Accessible Sections and ADA’s Code for Facilities (ADA 1992) is mandatory. Site plans of plans on, application fees and fire department, School District compliance certificate are required. A list of approved providers of services within the municipality indicating that no permit is required.

Paton Township

Glen Woods Elementary, Park Forest Elementary and Park Forest Middle Schools are in Patton Township. The Patton zoning department has indicated that for a playground on a school site, intended for use by the school only, no permit would be necessary from the Township. Applicants will need to obtain a signature from Patton Township indicating this. This can be obtained by scheduling an appointment by being the Centre Region building department and bringing into the Township for their signature and to provide them with a copy for their file.

Ferguson Township

We have made numerous attempts to contact the Township but at this point we have been unable to confirm the permitting requirements.

College Township

Spring Creek Elementary, Mount Nittany Elementary and Mount Nittany Middle schools are in College Township. College Township generally requires zoning permits for land development projects. The zoning office has indicated that, when moving forward with a playground project in the municipality, applicants should schedule a meeting with the zoning department to present and discuss the project. The Township would then make a determination of whether a zoning permit application would require the submission of a minor plan or could be submitted without a plan. In either case, a zoning permit would thereafter be issued for the project.

State College Borough

Corl Street Elementary, Easterly Parkway Elementary, Radio Park Elementary, and the Delta Program are located in State College Borough. The Borough generally requires zoning permits for land development projects. However, a request has been made that, when moving forward with a playground project in the municipality, application should schedule a meeting with the Borough before proceeding. The Borough would then determine whether a minor plan or a full plan would need to be submitted for Borough review. The plans will be reviewed, depending on the scope, the Borough will either issue a zoning permit or a notice that no permit is required. A full land development plan is not required for any of the playgrounds included in this project.

PA Department of Environmental Protection (DEP)

A few of the sites are currently under active construction and presumed to have active PA DEP National Pollution Elimination System (NPDES) permits for the discharge of water associated with construction activities. While playground projects should not add any of their filters and construction plans to their permit, a modification to the permit may be necessary to accommodate the development of the proposed playground improvements.

PLAYGROUND SAFETY AUDITS
### General Environment

<table>
<thead>
<tr>
<th>Category</th>
<th>Element</th>
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**Playground Safety Compliance Audit Form**

**Background Information**

- The playground safety audit form is a compliance audit tool that can be used to assess playground safety.
- It is designed to help identify potential safety hazards and ensure compliance with relevant standards and regulations.
- The checklist is used to evaluate various aspects of playground equipment and environmental conditions to ensure a safe play environment for children.

**Environmental Factors**

- **Easterly Parkway Elementary School**
  - **Composite Structure, Swings, Climbers, Slide, Fitness**

**Equipment Inventory**

- **indicate the number of equipment pieces that exist**

**Equipment Compliance**

- **exempt from ASTM F1487**

**General Environment**

- **motorists that a playground is nearby.**

**Comments**

- **trash receptacles are provided and**
- **signs on all bordering streets advise**
- **under no circumstances should a child be left unattended at any time**
- **gym equipment**

**Compliance**

- **not a regulatory standard, but a compilation**
- **of suggested guidelines based upon the**
- **issues of child development that pertain to play.**

- **Do not release to any person except an agency official, insurance representative, or an investigating police officer.**

**References**

- **ASTM F1487: Standard Practice for Safety Requirements for Play Structures for Recreation**
- **CPSC 2.3.1: Physical Activity Equipment (CPSC 2000)**
- **CPSC 2.4.1: Amusement Park Equipment (CPSC 2000)**
- **CPSC 2.7: Fitness Equipment (CPSC 2000)**
- **CPSC 2.8: Gym Equipment (CPSC 2000)**

**Additional Information**

- **The owner/operator shall evaluate each border concern for possible mitigation.**

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<td>Horizontal Ladders</td>
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<tr>
<td>Transfer Station</td>
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<td>Slides</td>
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<td>Other</td>
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**General Environment (continued)**

- **Playground Safety Compliance Audit Form**

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**Compliance**

- **Playground Safety Compliance Audit Form**

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**General Environment (continued)**

- **Playground Safety Compliance Audit Form**

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<td>Other</td>
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Playground Safety Is No Accident

1. Playground equipment is manufactured to comply with the Consumer Product Safety Commission (CPSC) requirements. (ASTM 4.1.1; CPSC 2.5.1)

2. No other play structure overlaps the use zone of equipment. (ASTM 9.2.1)

3. No other structure overlaps the use zone. (ASTM 9.2.2)

4. Equipment intended for toddler play (i.e. play activities, slide beds) is compliant and priority for replacement. (ASTM 9.2.2)

5. Use zone width is at least as wide as equipment play zone. (ASTM 4.2.3)

6. Equipment w/ limited movement or eqpt use zone may overlap. Clearance zones for converging slide beds may vary. (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)

7. Surfacing should be full depth to front and sides of occupied sitting surface. (ASTM 9.6.1; CPSC 5.3.6.5)

8. Use zones for rotating eqpt are designated play surfaces > 30" high in all directions from perimeter. No other play structure may overlap. (ASTM 9.3.2; CPSC 5.3.4.1)

9. Threads on hardware do not protrude beyond the threads. (ASTM 9.4.2.1; CPSC 5.3.8.3.3)

10. Play structures are anchored to the ground and not intended to be relocated. (ASTM 5.3)

3. Materials and Manufacture

1. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.2; CPSC 2.5.1)

2. Structures that are play-functionally exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)

3. Fitness equipment does not appear to be made of treated wood, has removal recommended. (ASTM 9.3.5)

4. Steel cable permanently affixed to a hanger or excessive shifting. (ASTM 4.2.3.1)

5. Users cannot ingest, inhale, or absorb substances through body surfaces as soon as possible. (ASTM 9.3.2; CPSC 5.3.8.4.1)

6. Equipment w/ special conditions. (ASTM 9.4.1.4)

7. Support structure use zones for adjacent equipment w/ min. 108" between pivot point and surfacing by width of beam. (ASTM 9.4.3)

8. Surfacing should be full depth to front and sides of occupied sitting surface. (ASTM 9.6.1; CPSC 5.3.6.5)

9. Steel cable securely fastened to a hanger and not intended to be relocated. (ASTM 5.3.2; CPSC 5.3.9)

10. Fitness equipment does not appear to be made of treated wood, has removal recommended. (ASTM 9.3.5)

Materials and Manufacture

1. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.2; CPSC 2.5.1)

2. Structures that are play-functionally exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)

3. Fitness equipment does not appear to be made of treated wood, has removal recommended. (ASTM 9.3.5)

4. Steel cable permanently affixed to a hanger or excessive shifting. (ASTM 4.2.3.1)

5. Users cannot ingest, inhale, or absorb substances through body surfaces as soon as possible. (ASTM 9.3.2; CPSC 5.3.8.4.1)

6. Equipment w/ special conditions. (ASTM 9.4.1.4)

7. Support structure use zones for adjacent equipment w/ min. 108" between pivot point and surfacing by width of beam. (ASTM 9.4.3)

8. Surfacing should be full depth to front and sides of occupied sitting surface. (ASTM 9.6.1; CPSC 5.3.6.5)

9. Steel cable securely fastened to a hanger and not intended to be relocated. (ASTM 5.3.2; CPSC 5.3.9)

10. Fitness equipment does not appear to be made of treated wood, has removal recommended. (ASTM 9.3.5)
Recommend installing labels.

4. Overhead obstructions within play zone, or the pivot point of swings.

5. Freestanding signs are located outside the play area use zone, or packed earth may result in serious injury or death from falls.” (ASTM 14.2.5)

C. Labeling

1. Use zone is min. 72" from structure or death from falls.” (ASTM 14.2.5)

X X X X X

D. Information Signage

1. Outside the play area the Accessible Route parallel to the 24" W of the transfer platform.

2. Signs or labels provide information about hot play surfaces and surfacing replacement.

3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)

4. Sign posted to communicate warning of the concern in time to take action.

5. Freestanding signs are located outside the play area use zone, or packed earth may result in serious injury or death from falls.” (ASTM 14.2.5)

X X X X X

Surfacing depth is less than the manufacturer’s recommended surfacing depth per manufacturer.

A. Maintenance

1. Outside the play area the Accessible Route parallel to the 24" W of the transfer platform.

2. Professional judgment may be used to resolve conflicts or adjacent structures that are not capable of being modified.

3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)

4. Sign posted to communicate warning of the concern in time to take action.

5. Freestanding signs are located outside the play area use zone, or packed earth may result in serious injury or death from falls.” (ASTM 14.2.5)

X X X X X

Surfacing depth is less than the manufacturer’s recommended surfacing depth per manufacturer.

B. Protective Surfacing

1. Outside the play area the Accessible Route parallel to the 24" W of the transfer platform.

2. Professional judgment may be used to resolve conflicts or adjacent structures that are not capable of being modified.

3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)

4. Sign posted to communicate warning of the concern in time to take action.

5. Freestanding signs are located outside the play area use zone, or packed earth may result in serious injury or death from falls.” (ASTM 14.2.5)

X X X X X

Surfacing depth is less than the manufacturer’s recommended surfacing depth per manufacturer.

H. Composite Structures

1. Outside the play area the Accessible Route parallel to the 24" W of the transfer platform.

2. Professional judgment may be used to resolve conflicts or adjacent structures that are not capable of being modified.

3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)

4. Sign posted to communicate warning of the concern in time to take action.

5. Freestanding signs are located outside the play area use zone, or packed earth may result in serious injury or death from falls.” (ASTM 14.2.5)

X X X X X

Surfacing depth is less than the manufacturer’s recommended surfacing depth per manufacturer.

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Playground Revitilization Programming Document | Stage College Area School District

Page 160
<table>
<thead>
<tr>
<th>Number of Ground Level Play Components Required to be on Accessible Routes</th>
<th>Number of Elevated Play Components Required to be on Accessible Routes</th>
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<tr>
<td>26 and over 8, plus 1 for each additional 3, 5</td>
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**Minimum Number of Ground Level and Different Types of Play Components**

- **Table 240.2.1.2**

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**Access and Egress**

1. **Steps/rungs are evenly spaced within ± .25" (ASTM 7.4.3; CPSC 5.2.1)**
2. **Steps do not allow accumulation of water**
3. **Stairways, step/rung ladders conform to CPSC 5.2.4**
4. **Continuous handrails are provided on the designated play surface they serve.**
5. **Landings w/ play components include arch and flexible climbers.**
6. **Stairways and stepladders have a max. horizontal run of 144".**
7. **Ramps intended for access have a transfer point.**
8. **Continuous handrails from access to wheelchair parking space w/ an adjacent circulation path ≥ 36".**
9. **Stairways and stepladders have a max. horizontal run of 144".**
10. **Stairways and stepladders have a max. horizontal run of 144".**
11. **Wheelchair accessible ramps have 2" of rent/chipping paint.**
12. **Barriers contain no designated surface other than the play component” for 5-12. (ASTM 7.5.5.4; CPSC 5.1.3)**
13. **Head Entrapment… All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)**
14. **Sharp Points and Edges… Eqpt free of rust/chipping paint.**
15. **Protrusions… All components pass dimensional test (CPSC 2.5.4)?**
16. **Entanglements… No protrusions project > 1/8" from horizontal plane; ramps, landings, steps, etc. have no protrusions project > 1/8" from horizontal plane.**
17. **Entanglements… All connecting devices are completely infilled are exempt. (ASTM 6.4.5.2.1)**
18. **Hardware/General Concerns**
19. **Tires do not trap water; tires have no means to prevent detachment.**
20. **Fasteners are corrosion-resistant.**
21. **Fasteners are self-locking or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts/bolts are self-locking or have a corrosion-resistant coating.**
22. **Components whose interior spaces are accessible to users are completely infilled are exempt. (ASTM 6.4.5.1)**
23. **Connectors whose interior spaces are accessible to users are completely infilled are exempt. (ASTM 6.4.3)**
24. **S-hooks, C-hooks, etc.) are closed to the designated play surface they serve.**
25. **Components whose interior spaces are accessible to users are completely infilled are exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)**
26. **One loop of S-hooks does not overlap. (ASTM 6.4.5.1)**
27. **Interloop diameters of S-hooks does not overlap. (ASTM 6.4.5.1)**
28. **Interloop diameters of S-hooks does not overlap. (ASTM 6.4.5.1)**
29. **Rungs have parallel edges at a max. 2º. (ASTM 7.5.1; CPSC 5.1.1)**
30. **Guardrails surround elevated surface except for access and egress openings; ramp surface, or ramp has 2 rails and a curb at both edges, unless guardrails may be reduced to 32" for max. 24".**
31. **Guardrails surround elevated surface except for access and egress openings; ramp surface, or ramp has 2 rails and a curb at both edges, unless guardrails may be reduced to 32" for max. 24".**
32. **Guardrails surround elevated surface except for access and egress openings; ramp surface, or ramp has 2 rails and a curb at both edges, unless guardrails may be reduced to 32" for max. 24".**
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### General Equipment Conditions

<table>
<thead>
<tr>
<th>Section</th>
<th>Category</th>
<th>Equipment</th>
<th>Condition</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>23. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>22. Entanglements... All connecting devices loop does not overlap. (ASTM 6.4.5.1)</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>21. Entanglements... No protrusions project upwards &gt; 1/8&quot; from horizontal plane; recessed, covered, or sanded smooth</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>19. Sharp Points and Edges... Eqpt free of sharp points and edges</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>18. Edges and Corners... Sharp or rough edges are not exposed on the upper 1/4&quot; of the surface</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>17. Edges and Corners... Edges must be rounded and corners must be radiused</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>16. Top surface of barrier is 29&quot; min. when intended for 2-5. 38&quot; max. when intended for 5-12. (ASTM 7.5.6.1)</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>15. Barriers surround elevated surface when intended for 5-12. (ASTM 7.5.6.1)</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>14. Barriers provided on elevated surfaces when intended for 2-5. 38&quot; max. when intended for 5-12. (ASTM 7.5.6.1)</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>13. Barriers have one handrail on both sides</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td>12. Barriers must be placed in sections long enough to keep children from dropping between sections</td>
<td></td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
</tbody>
</table>

#### Platforms, Landings, and Walkways

<table>
<thead>
<tr>
<th>Section</th>
<th>Category</th>
<th>Equipment</th>
<th>Condition</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platforms, Landings, and Walkways</td>
<td>Platforms</td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td></td>
<td>Landings</td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
<tr>
<td></td>
<td>Walkways</td>
<td></td>
<td></td>
<td>(YES)</td>
</tr>
</tbody>
</table>

#### General Information

The playground safety compliance audit form is not a regulatory standard, but a compilation of suggested guidelines based upon the Public Play Equipment Safety Code (US Pharmacopoeia, 2004), the American Society for Testing and Materials (ASTM F1487-07ae¹) Standards, and the Consumer Product Safety Commission (CPSC) 1990 Standards. It is an overview of most known playground safety concerns. The checklist on the following pages will help you to assess and correct safety concerns in a children's environment, it is an overview of most known playground safety concerns.

Injuries to children may occur from many types of playground equipment and environmental conditions. This checklist includes criteria to assess and correct safety concerns that must be present as soon as playgrounds are used. While it covers every potential injury concern on children's playgrounds, it is not an exhaustive list of all safety concerns. The checklist does not apply to leisure playground equipment, amusement park equipment, or Congo jungles or similar equipment. It is not intended to address the many important issues of child development that pertain to play. The checklist also does not address the many important issues of accessible design that pertain to play. The checklist includes accessibility requirements based on the Public Play Equipment Safety Code (US Pharmacopoeia, 2004), the American Society for Testing and Materials (ASTM F1487-07ae¹) Standards, and the Consumer Product Safety Commission (CPSC) 1990 Standards.

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### General Environment (continued)

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<table>
<thead>
<tr>
<th>Distance Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;100'</td>
<td></td>
</tr>
<tr>
<td>50'</td>
<td></td>
</tr>
<tr>
<td>6'</td>
<td></td>
</tr>
</tbody>
</table>

#### Materials and Manufacture

<table>
<thead>
<tr>
<th>General Conditions</th>
<th>Use Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Use Zones

<table>
<thead>
<tr>
<th>General Conditions</th>
<th>Use Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
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<td></td>
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</table>

#### Use Zones

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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Use Zones (Continued)</td>
<td>General Conditions</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>C. Labeling</td>
<td></td>
</tr>
<tr>
<td>1. On or near all play structures where safety alert symbol (triangle w/ exclamation mark) is likely, a supplemental circulation area is established for individual types of equipment. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)</td>
<td></td>
</tr>
<tr>
<td>D. Information Signage</td>
<td></td>
</tr>
<tr>
<td>1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)</td>
<td></td>
</tr>
<tr>
<td>E. Slides</td>
<td></td>
</tr>
<tr>
<td>1. Use zone is min. 72&quot; from structure perimeter, and complies w/ use zones for sitting is min. 72&quot; in all directions (ASTM 9.5.2.1)</td>
<td></td>
</tr>
<tr>
<td>2. Overhead obstructions within play area are min. 21&quot; from inside of each side wall vertical distance from highest point of slide use zone. Clearance zones for converging slides may overlap. Clearance zones for spiral slides is min. 72&quot; from perimeter. (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)</td>
<td></td>
</tr>
<tr>
<td>F. Rocking/ Springing Equipment</td>
<td></td>
</tr>
<tr>
<td>1. Use zone of rocking/springing eqpt may overlap. (ASTM 9.5.2.2)</td>
<td></td>
</tr>
<tr>
<td>2. Use zone of adjacent eqpt may overlap. (ASTM 9.1.3; CPSC 5.3.8.3.3)</td>
<td></td>
</tr>
<tr>
<td>3. Use zone of rocking/springing eqpt may overlap (6' apart). (ASTM 9.4.2.1; CPSC 5.3.8.4.1)</td>
<td></td>
</tr>
<tr>
<td>4. Use zone width is at least as wide as seat. (ASTM 9.4.2.2; CPSC 5.3.8.4.1)</td>
<td></td>
</tr>
<tr>
<td>5. No other play structure use zone overlaps. (ASTM 8.5.6, 9.6.3)</td>
<td></td>
</tr>
<tr>
<td>6. Equipment w/ limited movement or eqpt that can cause severe burns to young children. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)</td>
<td></td>
</tr>
<tr>
<td>G. Track Rides</td>
<td></td>
</tr>
<tr>
<td>1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)</td>
<td></td>
</tr>
<tr>
<td>2. Protective surfacing is maintained free from contamination and/or designated playing surface of less than depth per manufacturer. (ASTM 13.2.1; CPSC 2.4)</td>
<td></td>
</tr>
<tr>
<td>H. Surfacing W/ Engineered Wood Fiber (EWF)</td>
<td></td>
</tr>
<tr>
<td>1. Owner/Operator maintains the protective surfacing w/ Engineered Wood Fiber (EWF) that is durable, and is placed on the play surface w/ all local, state, and national codes per applicable have posted a warning label w/ DOJ 2010 Standard (Section 1008.2.6). (ASTM 13.2, 13.3)</td>
<td></td>
</tr>
<tr>
<td>2) safety alert symbol (triangle w/ exclamation mark)</td>
<td></td>
</tr>
<tr>
<td>3) If the built-up surfacing is required, it's must not exceed a critical height of 30&quot; and/or shall not exceed a critical height appropriate for the fall clearance. (ASTM 13.3; CPSC 4)</td>
<td></td>
</tr>
<tr>
<td>I. Water Play Equipment</td>
<td></td>
</tr>
<tr>
<td>1. Owner/Operator maintains the protective surfacing w/ Engineered Wood Fiber (EWF) that is durable, and is placed on the play surface w/ all local, state, and national codes per applicable have posted a warning label w/ DOJ 2010 Standard (Section 1008.2.6). (ASTM 13.2, 13.3)</td>
<td></td>
</tr>
<tr>
<td>2) safety alert symbol (triangle w/ exclamation mark)</td>
<td></td>
</tr>
<tr>
<td>3) If the built-up surfacing is required, it's must not exceed a critical height of 30&quot; and/or shall not exceed a critical height appropriate for the fall clearance. (ASTM 13.3; CPSC 4)</td>
<td></td>
</tr>
<tr>
<td>J. Swing Set</td>
<td></td>
</tr>
<tr>
<td>1. Combination Swing Use Zone as defined in 9.4.1 and 9.4.2 or both have special conditions. (ASTM 9.4.1.4)</td>
<td></td>
</tr>
</tbody>
</table>
**Use Flow Chart for Accessibility Section Questions 18 and 19**

### Table 1: Number and Types of Ground Level Play Components Required to be on Accessible Routes

<table>
<thead>
<tr>
<th>Minimum Number of Ground Level Play Components</th>
<th>Minimum Number of Different Types of Ground Level Play Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 7</td>
<td>2 to 4</td>
</tr>
<tr>
<td>17 to 19</td>
<td>3</td>
</tr>
<tr>
<td>23 to 25</td>
<td>7</td>
</tr>
</tbody>
</table>

### Table 2: Number and Types of Elevated Play Components Required to be on Accessible Routes

<table>
<thead>
<tr>
<th>Minimum Number of Elevated Play Components</th>
<th>Minimum Number of Different Types of Elevated Play Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 7</td>
<td>2 to 4</td>
</tr>
<tr>
<td>17 to 19</td>
<td>3</td>
</tr>
<tr>
<td>23 to 25</td>
<td>7</td>
</tr>
</tbody>
</table>

**Notes:***

- **X** indicates compliance with standards.
- **NA** indicates information not available.
- **Blank** indicates component not applicable.

---

**General Conditions**

<table>
<thead>
<tr>
<th>Access and Egress</th>
<th>Compliant Non-comp Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Playground Safety Compliance Audit Form**

**General Conditions**

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<tr>
<th>Access and Egress</th>
<th>Compliant Non-comp Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Access and Egress (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. Barriers contain no designated surface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Wheelchair accessible ramps requiring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Lower edge of guardrails max. 23&quot; when</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Guardrails surround elevated surface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Guardrails are present on elevated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Guardrails contain no designated play</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Platforms, landings, and ramps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Platforms, landings, and ramps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Platforms are horizontal w/in a tolerance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Platforms, Landings, and Walkways

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>22. Entanglements… All connecting devices</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. Entanglements… No protrusions project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20. Protrusions… All components pass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19. Sharp Points and Edges… Eqpt free of</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Platforms, Landings, and Walkways (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>24. Ground level and beneath protective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23. Connectors whose interior spaces</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. Connectors whose interior spaces</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. S-hooks, C-hooks, etc.) are closed to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20. Fasteners are corrosion-resistant or have</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19. Fasteners are corrosion-resistant or have</td>
<td></td>
<td></td>
</tr>
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<td></td>
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<table>
<thead>
<tr>
<th>General Conditions</th>
<th>Holes in Metal or Plastic</th>
<th>Nails Used</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Metal platforms or structures must be free from holes that will allow children to pass through and fall through. (CPSC 5.4.2; ASTM 5.3.7)</td>
<td>X</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2. Metal structures are constructed with holes which may result in injury. (CPSC 5.4.2; ASTM 5.3.7)</td>
<td>X</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3. Metal structures are constructed with large holes which may result in injury. (CPSC 5.4.2; ASTM 5.3.7)</td>
<td>X</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4. Any visible rust. Some rust has developed and needs to be painted. (ASTM 4.1.2; CPSC 5.3.1)</td>
<td>X</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5. Users cannot ingest, inhale, or absorb wood dust from the equipment. (ASTM 4.1.1; CPSC 5.3.1)</td>
<td>X</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6. Equipment is manufactured and constructed only of materials that are free from any potentially hazardous amounts of metals, such as lead, chromium, or other compounds that may leach out and create a health risk. (CPSC 5.3.2)</td>
<td>X</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7. Steel cable permanently affixed to a hanger. (ASTM 4.5.1; CPSC 5.3.2)</td>
<td>X</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8. Creosote-treated wood and coatings are avoided. (ASTM 4.5.2; CPSC 5.3.2)</td>
<td>X</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>9. CCA-treated wood is not used, or is regularly coated (min. once/year) with a material that will inhibit the growth of mold and not intended to be relocated. (ASTM 4.5.3; CPSC 5.3.2)</td>
<td>X</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

### Playground Equipment

#### General Conditions

- **Stationary Equipment**
  - Use zones for 2 or more stationary structures that are play-functionally linked are treated as if separate structures. (ASTM 4.3.1.3)
  - Support structure use zones may overlap. (ASTM 4.3.1.3; CPSC 5.3.9.4)

- **Rotating Equipment**
  - Use zones of stationary equipment and spaces that serve to reduce friction and prevent tangling shall be at least 72" apart. (ASTM 4.5.1; CPSC 5.3.8.4.1)

#### Use Zones

- **A. Stationary Equipment**
  - The min. distance between equipment is 72". If adjacent designated play surfaces of each structure have special conditions, (ASTM 9.4.1.4)
  - Support structure use zones for adjacent equipment may overlap. If adjacent equipment may overlap. If adjacent structures that are play-functionally linked are treated as if separate structures. (ASTM 9.4.1.5; CPSC 5.3.8.3.3)

- **B. Rotating Equipment**
  - Use zones of stationary equipment and spaces that serve to reduce friction and prevent tangling shall be at least 72" apart. (ASTM 4.5.1; CPSC 5.3.8.4.1)

- **C. Rocking/Springing Equipment**
  - Use zones of rocking/springing eqpt may overlap when adjacent designated play surfs are > 30" high. (ASTM 9.5.1.1; CPSC 5.3.7.3.3)

- **D. Rotating Swings**
  - Use zones of stationary equipment and spaces that serve to reduce friction and prevent tangling shall be at least 72" apart. (ASTM 4.5.1; CPSC 5.3.8.4.1)

- **E. Slides**
  - Use zones of stationary equipment and spaces that serve to reduce friction and prevent tangling shall be at least 72" apart. (ASTM 4.5.1; CPSC 5.3.8.4.1)
### Use Zones (continued)

<table>
<thead>
<tr>
<th>General Conditions</th>
<th>VH</th>
<th>BCC</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Outside the play area, the use zone is at least 72&quot; from structure. Use zone is min. 36&quot; from structures if vertical equipment is 54&quot; or less in height.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>2. Adequate buffer in a zone of the equipment so the use zone is at least 72&quot; from structure.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>3. Elevated equipment such as swings and slide have buffer zones that are 72&quot; from structure.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>4. In settings where periodic overcrowding is expected, additional buffer zones are recommended.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>5. Overhead utility line clearances comply with ASTm 14.25 and CPSC 4.3.1.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Maintenance, Surfacing, Labeling, Signage

<table>
<thead>
<tr>
<th>General Conditions</th>
<th>VH</th>
<th>BCC</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Use zone is min. 72&quot; from structure.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>2. Protective surfacing is maintained free from excessive wear, cracks, holes, or sharp edges.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>3. Surfacing is well-drained and free of puddles, ruts, or debris.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>4. Written documentation available of laboratory testing of surfacing materials.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Accessibility

<table>
<thead>
<tr>
<th>General Conditions</th>
<th>VH</th>
<th>BCC</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Outside the play area, the access route is adjacent to the area and is min. 60&quot; wide.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>2. Accessible upper body equipment, such as climbers, are min. 24&quot; high, 17&quot; deep.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
<tr>
<td>3. Elevated ramps are 36&quot; min. w/ a max. running slope no steeper than (1:16 within) and 80&quot; overhead clearance with max. 1/4&quot; + 1/4&quot; beveled, and &gt; 1/2&quot; must be ramp wide w/ max. abrupt vertical rise – 1/4&quot;, or 1/4&quot; + 1/4&quot; beveled, and &gt; 1/2&quot; must be ramp wide w/ max. abrupt vertical rise.</td>
<td>X</td>
<td>X</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Comments

N/A

**Recommend installing labels.**

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Playground Revitalization Programming Document | Stage College Area School District

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### Use Flow Chart for Accessibility Section Questions 18 and 19

#### Number and Types of Ground Level Play Components Required to be on Accessible Routes

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Minimum Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Elevated Play Components Required to be on Accessible Routes</td>
<td>11 to 13</td>
</tr>
<tr>
<td>Minimum Number of Ground Level Play Components</td>
<td>23 to 25</td>
</tr>
<tr>
<td>Minimum Number of Different Types</td>
<td>8 to 10</td>
</tr>
</tbody>
</table>

---

### Number and Types of Ground Level Play Components Required to be on Accessible Routes

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Minimum Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Elevated Play Components Required to be on Accessible Routes</td>
<td>11 to 13</td>
</tr>
<tr>
<td>Minimum Number of Ground Level Play Components</td>
<td>23 to 25</td>
</tr>
<tr>
<td>Minimum Number of Different Types</td>
<td>8 to 10</td>
</tr>
</tbody>
</table>

---

### Platforms, Landings, and Walkways

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Minimum Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platforms, landings, and ramps provided to be horizontal within ± 2º.</td>
<td>1. Platforms are horizontal within a tolerance of ± 2º. (ASTM 7.5.1; CPSC 5.1.1)</td>
</tr>
<tr>
<td>Guardrails surround elevated surfaces.</td>
<td>2. Guardrails surround elevated surfaces. (ASTM 7.5.3; CPSC 5.1.3)</td>
</tr>
<tr>
<td>Guardrails contain no designated play components</td>
<td>3. Guardrails contain no designated play components. (ASTM 7.5.2; CPSC 5.1.1)</td>
</tr>
<tr>
<td>Turning and parking spaces provided</td>
<td>4. Turning and parking spaces provided. (ASTM 7.5.4; CPSC 5.1.1)</td>
</tr>
<tr>
<td>Stairways and stepladders have alternate hand gripping components</td>
<td>5. Stairways and stepladders have alternate hand gripping components. (ASTM 7.4.3; CPSC 5.2.1)</td>
</tr>
<tr>
<td>Stairways, step/rung ladders conform to ASTM 7.4.2</td>
<td>6. Stairways, step/rung ladders conform to ASTM 7.4.2 (CPSC 5.2.4)</td>
</tr>
<tr>
<td>Stepping surface for final access on stairways and stepladders</td>
<td>7. Stepping surface for final access on stairways and stepladders. (ASTM 7.4.3; CPSC 5.2.1)</td>
</tr>
<tr>
<td>Accesses w/o handrails (rung ladders, arch climbers, flexible components, etc.)</td>
<td>8. Accesses w/o handrails. (rung ladders, arch climbers, flexible components, etc.) (ASTM 7.4.3; CPSC 5.2.4)</td>
</tr>
<tr>
<td>Landings w/ play components include a min. 36” clear width; clear width may be reduced to 32” for max. 24”</td>
<td>9. Landings w/ play components include a min. 36” clear width; clear width may be reduced to 32” for max. 24”. (ASTM 7.5.2; CPSC 5.1.1)</td>
</tr>
<tr>
<td>Play area is free of tripping hazards.</td>
<td>10. Play area is free of tripping hazards. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)</td>
</tr>
<tr>
<td>Equipment is free of rust/chipping paint.</td>
<td>11. Equipment is free of rust/chipping paint. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)</td>
</tr>
<tr>
<td>Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)</td>
<td>12. Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)</td>
</tr>
<tr>
<td>Anchoring devices are installed below ground line.</td>
<td>13. Anchoring devices are installed below ground line. (ASTM 6.1, 6.1.4, 6.1.4.7(3))</td>
</tr>
<tr>
<td>Fastener is broken, another fastener is loose, recommend replacement.</td>
<td>14. Fastener is broken, another fastener is loose, recommend replacement. (ASTM 6.5; CPSC 3.1)</td>
</tr>
<tr>
<td>Stairs are rusting, recommend replacement.</td>
<td>15. Stairs are rusting, recommend replacement. (ASTM 6.5; CPSC 3.1)</td>
</tr>
<tr>
<td>Connectors whose interior spaces are not connected above or below</td>
<td>16. Connectors whose interior spaces are not connected above or below. (ASTM 6.5; CPSC 3.1)</td>
</tr>
<tr>
<td>Connectors whose interior spaces are not connected above or below</td>
<td>17. Connectors whose interior spaces are not connected above or below. (ASTM 6.5; CPSC 3.1)</td>
</tr>
<tr>
<td>X</td>
<td>18. Connectors whose interior spaces are not connected above or below. (ASTM 6.5; CPSC 3.1)</td>
</tr>
<tr>
<td>Compliant Non-comp Priority</td>
<td>19. Compliant Non-comp Priority</td>
</tr>
</tbody>
</table>
20. Protrusions… All components pass
19. Sharp Points and Edges… Eqpt free of
17. Adjacent platforms w/ height difference
15. Barriers surround elevated surface
13. Barriers provided on elevated surfaces

Crush shear tests. (ASTM 6.5; CPSC 3.1)
Connectors whose interior spaces
loop does not overlap. (ASTM 6.4.5.1)
(S-hooks, C-hooks, etc.) are closed to
(ASTM 6.4.2, 6.4.3, 6.4.4)
from initial surface less than or equal to
any protrusion increasing in diameter
any nut perpendicular to initial surface;
upwards > 1/8” from horizontal plane;
and level. (ASTM 6.3; CPSC 3.2)
protrusion test. Nuts, bolts, screws
and edges. (ASTM 6.2; CPSC 3.4)
splinters, sharp points, edges; tubing is
exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))
entrapment and partially-bounded opening
component. (ASTM 7.5.7.1)
Intended for 2-5, and 38” max. when
between 20-28” H. (DOJ 2010 Standard
barriers have one handrail on both sides
> 30” when intended for 2-5, and > 48”

The playground safety compliance audit form is not a regulatory standard but a compilation of equipment guidelines published by the Public Playground Safety Association webinar for the A Commerce Product Safety Consortium (CPSC) Revised November 2010; American Society for Testing and Materials (ASTM) F1487-11 Standard; Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Section 504 and 508 Play Areas (These accessibility standards published in the Federal Register September 15, 2010 can be found at: http://www.access-board.gov/regulations/design-guidelines/adaag/design-guide-04.html and expert opinions from individuals with a vast amount of experience in the field

Acknowledgments:
• Revised September 2008 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director
• Excel™ formatted 2004, revised citations to 2008 CPSC Handbook
• Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM,
• Edited and updated June, 1992, by Ken Kutska, CPRP, and Kevin Hoffman, ARM,
• Adapted as Wheaton Park District’s “Initial Playground Safety Audit” September, 1989,

Playground Safety Compliance Audit Form

General Equipment Conditions

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Playground Safety Compliance Audit Form
### General Environment (continued)

<table>
<thead>
<tr>
<th>Playground Perimeter Concerns</th>
<th>Selection</th>
<th>Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basketball court</td>
<td>1st public street</td>
<td>25'</td>
<td>X</td>
</tr>
<tr>
<td>Swimming pool</td>
<td>1st public street</td>
<td>25'</td>
<td>X</td>
</tr>
<tr>
<td>Sand box</td>
<td>1st public street</td>
<td>25'</td>
<td>N/A</td>
</tr>
<tr>
<td>Skateboard</td>
<td>1st public street</td>
<td>25'</td>
<td>X</td>
</tr>
<tr>
<td>Storage yard</td>
<td>1st public street</td>
<td>25'</td>
<td>X</td>
</tr>
</tbody>
</table>

**Check all potential concerns that exist, and indicate the actual distance item is from play area border.**

**General Environment**

<table>
<thead>
<tr>
<th>Area</th>
<th>Condition</th>
<th>Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playground</td>
<td>Safe surfacing</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Playground</td>
<td>Equipment not recommended on public</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Playground</td>
<td>Equipment to provide shaded area</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Playground</td>
<td>Equipment to provide visibility</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Playground</td>
<td>Equipment to provide access to playground</td>
<td>1</td>
<td>X</td>
</tr>
</tbody>
</table>

**Compliant Non-comp Priority**

<table>
<thead>
<tr>
<th>Area</th>
<th>Condition</th>
<th>Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Environment</td>
<td>Trash receptacles recommended</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>General Environment</td>
<td>Signs on all bordering streets advise motorists that a playground is nearby</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>General Environment</td>
<td>Equipment not secured at both ends, trampolines, play surfaces that serve to reduce friction and trapeze bars</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>General Environment</td>
<td>Surfaces that serve to reduce friction</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>General Environment</td>
<td>Equipment not recommended on public</td>
<td>1</td>
<td>X</td>
</tr>
</tbody>
</table>

**Use Zones**

<table>
<thead>
<tr>
<th>Area</th>
<th>Condition</th>
<th>Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playground</td>
<td>Use zones of stationary equipment</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Playground</td>
<td>Use zones of rotating equipment</td>
<td>1</td>
<td>X</td>
</tr>
</tbody>
</table>

**Materials and Manufacture**

<table>
<thead>
<tr>
<th>Area</th>
<th>Condition</th>
<th>Priority</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>Wood materials are naturally rot-resistant</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Equipment</td>
<td>Metals subject to structural degradation or treated to avoid deterioration</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Equipment</td>
<td>Plastics and other materials that experience ultraviolet (UV) degradation</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Equipment</td>
<td>Users cannot ingest, inhale, or absorb potentially hazardous amounts of surfacing</td>
<td>1</td>
<td>X</td>
</tr>
<tr>
<td>Equipment</td>
<td>Any potentially hazardous amounts of surfacing</td>
<td>1</td>
<td>X</td>
</tr>
</tbody>
</table>

**Note:**
- Each playground is evaluated for compliance with the Universal Design for Accessible Playgrounds (exempt from ASTM F1487). All materials that are UV protected. (ASTM 4.1.1)
## Use Zones (continued)

<table>
<thead>
<tr>
<th>General Conditions</th>
<th>Swing</th>
<th>Ladder</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Combination Swing Use Zone</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Use zone for combination swing is min. 5' in all directions</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Use zone is 2W where W = distance between pivot point and surfacing by width of beam.</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Use zone for the individual suspended elements.</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Use zone is 2X where X = distance between pivot point inside) preceding signal word, and other required information.</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments

- **Combination Swing Use Zone**
  - Use zone for combination swing is min. 5' in all directions.
  - Use zone is 2W where W = distance between pivot point and surfacing by width of beam.
  - Use zone for the individual suspended elements.
  - Use zone is 2X where X = distance between pivot point inside) preceding signal word, and other required information.

---

## Maintenance, Surfacing, Labeling, Signage

### Recommendations

- **Surfacing**
  - Surfacing depth is less than 10" below max. seat height of any swing. Recommend installing labels.
  - Surfacing within the use zone of each play structure is not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)
  - Seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)
  - Seat bays clearances (Y+30") are established for individual types of eqpt.
  - Seat bays clearances (Y+30") are min. 21" from inside of each side wall and periphery away from circulation routes. (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)

- **Surfacing**
  - Surfacing depth is less than 10" below max. seat height of any swing. Recommend installing labels.
  - Surfacing within the use zone of each play structure is not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)
  - Seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)
  - Seat bays clearances (Y+30") are established for individual types of eqpt.
  - Seat bays clearances (Y+30") are min. 21" from inside of each side wall and periphery away from circulation routes. (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)

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## Maintenance, Surfacing, Labeling, Signage

### Recommendations

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1. Inside the play area the AR is at least 60" wide (W), has max. cross-slope of 1:48, and a minimum of 60" horizontal (H) dimension must be centered w/in 1" of ramp surface extending to w/in 1" of ramp surface beyond the ramp edge, or barriers not extending to ≥ 2" above the ramp. (DOJ 2010 Standard Sec. 1008.2.4.1)

2. Elevated ramp is 36" min. w/ a max. run of 144" and running slope less than 1:20 and max. abrupt vertical rise – 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp depth per manufacturer. (DOJ 2010 Standard – Section 240.2 Play Components)

3. Elevated AR connects minimum 50% (YES) (NO) Rating

4. All ramp landings w/ play components include a max. horizontal run of 144" and a max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp depth per manufacturer. (DOJ 2010 Standard – Section 240.2 Play Components)

5. Landings w/ play components include a max. horizontal run of 144" and a max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp depth per manufacturer. (DOJ 2010 Standard – Section 240.2 Play Components)

6. Continuous handrails are provided on ramp landings w/ play components. (DOJ 2010 Standard – Section 240.2 Play Components)

7. Arch and flexible climbers not sole means of access and egress points are ≤ 15". (ASTM 7.4.3; CPSC 5.2.1)

8. Arch and flexible climbers not sole means of access and egress points, such as slides, allow user to return to original transfer point. (DOJ 2010 Standard – Section 302.2 and .3)

9. Transfer Point has min. clear space of 60" (YES) (NO) Rating

10. Play area use zone has accessible safety (YES) (NO) Rating

11. Stairways, step/rung ladders conform to ASTM 7.2.6 and CPSC 5.2.3 (Step Platforms, Ramps, and Components require minimum of 25% of their overall area to be accessible surface.

12. Stepping surface for final access on stairways and stepladders have abrupt vertical rise - 1/4", (YES) (NO) Rating

13. Accessible Ramps and Platforms have –

14. Elevated accessible play opportunities are ≥ 12' (YES) (NO) Rating

15. Vertical Knee clearance is min. 24"H, 17"D, horizontal ladders and rings, are < 54" H. (DOJ 2010 Standard – Advisory Section 1008.3)

16. Accessible upper body eqpt, such as horizontal ladders and rings, are < 54" H. (DOJ 2010 Standard – Advisory Section 1008.3)

17. Ramps have handrails (0.95" to 1.55") on parallel to the 24" W of the transfer platform.

18. A. Where ground level components are not accessible they are compliant. Recommend replacement by Engineered Wood (YES) (NO) Rating

19. Elevated AR connects minimum 50% (YES) (NO) Rating

20. All access points along AR conform to ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 (ASTM 7.1.1) and compliant w/ DOJ 2010 Standards.

21. Steps do not allow accumulation of water upon use (YES) (NO) Rating

22. Components exempt.) (ASTM 7.5.5.2(3)) (Step Platforms, Ramps, and Components require minimum of 25% of their overall area to be accessible surface.

23. Landings w/ play components include a max. horizontal run of 144" and a max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp depth per manufacturer. (DOJ 2010 Standard – Section 240.2 Play Components)

24. Continuous handrails are provided on ramp landings w/ play components. (DOJ 2010 Standard – Section 240.2 Play Components)

25. Arch and flexible climbers not sole means of access and egress points, such as slides, allow user to return to original transfer point. (DOJ 2010 Standard – Section 302.2 and .3)

26. Components and Play Types on AR.

27. Number and Types of Ground Level Play Components Required to be on Accessible Routes

28. Number of Elevated Play Components Required to be on Accessible Routes

29. Number and Types of Elevated Play Components Required to be on Accessible Routes

30. Number and Types of Vertical Knee Clearances Required to be on Accessible Routes

31. Number and Types of Wheelchair Parking Spaces Required to be on Accessible Routes

32. Number and Types of Unassisted to Original Transfer Points Required to be on Accessible Routes

33. Each original transfer point is accessible w/ an adjacent wheelchair parking space w/ an adjacent accessible surface.

34. General Equipment Conditions

35. Number of Accessible Routes

36. Number and Types of Unassisted to Original Transfer Points Required to be on Accessible Routes

37. Each original transfer point is accessible w/ an adjacent wheelchair parking space w/ an adjacent accessible surface.

38. General Equipment Conditions

39. Number of Accessible Routes

40. Number and Types of Unassisted to Original Transfer Points Required to be on Accessible Routes

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42. General Equipment Conditions
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<td>2. Playground is accessed safely by a well-maintained paved pathway.</td>
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<td>3. Play area has a perimeter that is clearly visible to motorists.</td>
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<td>Wood materials are naturally rot-resistant</td>
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<td>Plastics and other materials that experience ultraviolet (UV) degradation</td>
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<td>Users cannot ingest, inhale, or absorb</td>
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**Use Zones**

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<td>B. Rocking/Springing Equipment use zones</td>
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<td><strong>Item 3</strong></td>
<td>C. Slides use zones</td>
<td>X</td>
</tr>
<tr>
<td><strong>Item 4</strong></td>
<td>D. Rotating Swings use zones</td>
<td>X</td>
</tr>
<tr>
<td><strong>Item 5</strong></td>
<td>E. Rocking/Springing Equipment use zones</td>
<td>X</td>
</tr>
<tr>
<td><strong>Item 6</strong></td>
<td>F. Steps and other climbing equipment use zones</td>
<td>X</td>
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**Use Zones (continued)**

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<tr>
<td>Sufficient space is provided between track ride use zones and has structural compliance to the appropriate ASTM Standards.</td>
<td>X</td>
<td>N/A</td>
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<tr>
<td>Installation compliance to the appropriate ASTM Standards.</td>
<td>X</td>
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</tr>
<tr>
<td>On or near all play structures where play equipment for the purposes of play and safety is likely, a supplemental circulation area beyond the use zone is provided, using professional judgement of owner/operator.</td>
<td>X</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Protective surfacing is maintained free from standing water.</td>
<td>X</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Protective surfacing to all accessible play components.</td>
<td>X</td>
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Playground Safety Is No Accident

Use Flow Chart for Accessibility Section Questions 18 and 19

Number of Elevated Play Components Required to of Ground Level Play Components

20 to 22
14 to 16
11 to 13
5 to 7
1 Not applicable Not applicable

or fraction thereof, over 25

50
Page 12 August 2011

11. Accesses w/o handrails (rung ladders, 10. Stairways and stepladders have
9. Climbers used as access provide a means 8. Arch and flexible climbers not sole means
7. Handrails have diameter between 6. Ramps intended for access have
5. Landings w/ play components include 4. Stairways, step/rung ladders conform
3. Steps do not allow accumulation of water 2.arch climbers, flexible components, etc.)
1. Handrails have diameter between of access for users 2-5. (ASTM 7.3.2.1; CPSC 5.2.3)
0.04; lower loop of S-hooks does 1/8" in width and 1/8" in depth is exempt.
max. 2 fastener threads protrude through upwards > 1/8" from horizontal plane; 
24" H. (DOJ 2010 Standard
2. Platforms, landings, walkways, and ramps 
1. Guardrails surround elevated surface 
8. Top surface of guardrails min. 29" when 
7. Guardrails surround elevated surface 
6. Guardrails are present on elevated 
5. Turning and parking spaces provided 
4. Turning and parking spaces provided 
3. Platforms, landings, walkways, and 
2. Platforms, landings, walkways, and ramps 
1. Guardrails are present on elevated 

CPSC 5.1.3)

and barriers don't extend to w/in 1" of 

CPSC 5.1.3)

CPSC 5.1.3)

CPSC 5.1.3)

CPSC 5.1.3)

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CPSC 5.1.3)

CPSC 5.1.3)
## Platforms, Landings, and Walkways

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<td>13. Barriers provided on elevated surfaces &gt; 30&quot; when intended for 2-5, and &gt; 48&quot; when intended for 5-12. (ASTM 7.5.6.1)</td>
<td>X</td>
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<td>14. Wheelchair accessible ramps that require barriers have one handrail on both sides between 20-28&quot; H. (DOJ 2010 Standard Section 1008.2.5)</td>
<td>X</td>
<td></td>
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<td>15. Barriers surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15&quot;. (ASTM 7.5.6.3)</td>
<td>X</td>
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<td>16. Top surface of barrier is 29&quot; min. when intended for 2-5, and 38&quot; max. when intended for 5-12. (ASTM 7.5.6.4)</td>
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<td>17. Adjacent platforms w/ height difference &gt; 12&quot; when intended for 2-5 or &gt; 18&quot; when intended for 5-12 have an access component. (ASTM 7.5.7.1)</td>
<td>X</td>
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<td>18. Head Entrapment… All components pass entrapment and partially-bounded opening tests. Partially bounded openings &lt; 24&quot; H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))</td>
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<td>19. Sharp Points and Edges… Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)</td>
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<tr>
<td>20. Protrusions… All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>21. Entanglements… No protrusions project upwards &gt; 1/8&quot; from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8&quot; in width and 1/8&quot; in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>22. Entanglements… All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04”; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>23. Crush/Shear… All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### Hardware/General Concerns

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>24. Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Equipment is free of rust/chipping paint. (CPSC 2.5.4)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### ADDENDUM : EXISTING EQUIPMENT
### Corl Street Elementary School

#### Challenger

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZZCH0009</td>
<td>3-1/2&quot; X 112&quot; STEEL POST W/ RIVETED CAP</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ZZCH0028</td>
<td>3-1/2&quot; X 136&quot; STEEL POST W/ RIVETED CAP</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ZZCH6970</td>
<td>CLIMB ACROSS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ZZCH6441</td>
<td>10' VINYL COATED CHAIN BRIDGE</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ZZCH9990</td>
<td>CHALLENGER &quot;TOOLS &amp; ADDITIONAL PARTS KIT&quot;</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ZZUN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ZZUN9930</td>
<td>MAINTENANCE KIT</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

This modular unit contains 02 active play components that will accommodate approximately 5 users, and take approximately 12.0 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.77 yards of concrete for footings.

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### Corl Street Playground

#### Challenger

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH0028</td>
<td>3-1/2&quot; x 136&quot; Steel Post w/ Riveted Cap</td>
<td>1</td>
</tr>
<tr>
<td>CH6980</td>
<td>SPRING TRAINING</td>
<td>2</td>
</tr>
<tr>
<td>CH9990</td>
<td>CHALLENGER Tools &amp; Additional Parts Kit</td>
<td>1</td>
</tr>
<tr>
<td>UN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
</tr>
<tr>
<td>UN9930</td>
<td>MAINTENANCE KIT</td>
<td>1</td>
</tr>
</tbody>
</table>

The modular unit contains 01 active play component that will accommodate approximately 1 user, and take approximately 5.5 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.13 yards of concrete for footings.
**Coral Street Elementary**

<table>
<thead>
<tr>
<th>CHALLENGER</th>
<th>DRAWING NUMBER: 980654A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part No.</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>CH0795</td>
<td>Triangular Vinyl Coated Deck Assembly</td>
</tr>
<tr>
<td>CH0805</td>
<td>Vinyl Coated Half Hex Deck Assembly</td>
</tr>
<tr>
<td>CH0920</td>
<td>156&quot; Support Post w/Riveted Cap</td>
</tr>
<tr>
<td>CH2530</td>
<td>12' Deck to Deck Kick Plate</td>
</tr>
<tr>
<td>CH1850</td>
<td>Cantilever Post</td>
</tr>
<tr>
<td>CH2930</td>
<td>Lightning Slide w/Hood (72&quot; Deck)</td>
</tr>
<tr>
<td>CH4090</td>
<td>Centerline Pipe Wall Barrier</td>
</tr>
<tr>
<td>UN6990</td>
<td>Monorail</td>
</tr>
<tr>
<td>CH7240</td>
<td>Chain Net Climber (60&quot; Deck)</td>
</tr>
<tr>
<td>CH9325</td>
<td>Vinyl Coated Ladder (60&quot; Deck)</td>
</tr>
<tr>
<td>UN7640</td>
<td>Mountain Climber (60&quot; Deck)</td>
</tr>
<tr>
<td>UN7670</td>
<td>Tree Climber Assembly (60&quot; Deck)</td>
</tr>
<tr>
<td>CH9990</td>
<td>Challenger Tools &amp; Additional Parts Kit</td>
</tr>
<tr>
<td>UN9910</td>
<td>Surfacing Warning Label Kit</td>
</tr>
<tr>
<td>UN9930</td>
<td>Maintainence Kit</td>
</tr>
</tbody>
</table>

The modular unit will accommodate approximately 23 users and take approximately 21.4 hours to install by a professional installation team of 3 people. The modular unit will require approximately 1.28 yards of concrete for footings.
**LIGHTNING SLIDE**

**12" (30.5 cm) KICK PLATE**

**MODEL CH2530**

**CHALLENGER**

**12" (30.5 cm) KICK PLATE**

**MODEL CH2530**

**LIGHTNING SLIDE**

**72" (182.9 cm) DECK**

**MODEL CH2930**

**CENTERLINE PIPE WALL BARRIER**

**MODEL CH4090**

**PIPE WALL BARRIER**

**CHALLENGER**

**MODEL CH5790**

---

**Installation Instructions**

**CHALLENGERS**

Model CH5790

10 FT. (3048 mm) HORIZONTAL LOOP LADDER

**Torque Specification:**

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.

Set Screws: Snug tighten and tighten an additional full turn.

**Assembly View**

**Maintenance . . .**

Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Installation Preparation . . .**

Installation Time: Approx. 1 hour

Weight: 74 Lbs. (34 Kilos)

Concrete Required: Approx. 2 cubic feet

Use Zone: 6 ft. (1829 mm) all sides

User Group: Ages 5 - 12 years
Assembly View

Torque Specification:

Bolts & Nuts:
Snug tighten and
then tighten an additional one-half turn.

Set Screws:
Snug tighten and
then tighten an additional full turn.

Maintenance:

• Playworld Systems strongly recommends the use of protective surfacing within the
use zone of each play structure in accordance with ASTM specification F1292
appropriate for the fall height of each structure.

• Playworld Systems strongly recommends close supervision of children as they play.
The owners of playground equipment and the parents or guardians of children are
responsible for this proper supervision. Do not use playground equipment when it is
wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of
the equipment and surrounding play area. A comprehensive maintenance and
inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation:

Installation Time:
Approx. 1 hour

Weight:
27 Lbs. (12 Kilos)

Concrete Required:
Approx. .16 cubic feet
**SPRING TRAINING**

Model CH6980

Dimensions:
- Bottom of Clamp: 63" (160 cm)
- Top of Impact Attenuating Surfacing: 149" (378.5 cm)
- Assembly View: See Detail 'A'

**CHAIN NET CLIMBER**

Model CH7240

Dimensions:
- Deck: 60" (152.4 cm)
- Footing Diagram: 41" (103.3 cm) and 38" (97.7 cm)
- Anchor Rod Footing: 12" (30.5 cm) Diameter
- Impact Attenuating (Resilient) Surfacing Level: 30" (76.2 cm)
- Footing Detail: 24" (61 cm)

**VINYL LADDER**

Model CH9325

Dimensions:
- Deck: 60" (152.4 cm)
- Assembly View: See Detail 'A' and 'B'
- Footing Leg: 26" (66 cm)
- Footing Leg: 1" O.D. Flatwasher
- 3/8" Locknut
- Vinyl Ladder Section: 3/8" x 3-1/4" Button Head Bolt
- Footing Leg: Handrail Spacer
- Handrail: See Detail 'D'

**INSTALLATION INSTRUCTIONS**

UNIVERSAL MODEL UN6500

DURA BALANCE BEAM

Torque Specification:
- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

Assembly View

Maintenance . . .
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation . . .
- Recommended Crew: Two (2) adults
- Installation Time: 1 man-hour
- Weight: 58.5 Lbs. (26.3 Kilos)
- Concrete Required: 0.11 cubic yard
- Use Zone: 6 ft. (1829 mm) all sides
- User Group: Ages 2 - 12
INSTALLATION INSTRUCTIONS

PLAYWORLD SYSTEMS

MODEL XX0260

BELT SWING WITH GALVANIZED CHAIN

8 ft. (2438 mm) Top Rail Height

Installation Preparation . . .

Installation Time: Approx. 1/4 hours

6 Lbs. (3 Kilos)

Use Zone: 16 ft. (4877 mm) Front and Back

Ages 5 - 12 years

User Group:

Torque Specification:

Snug tighten and tighten an additional full turn.

Bolts & Nuts:

Snug tighten and

Set Screws:

Snug tighten and tighten an additional full turn.

Maintenance . . .

• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

MODEL XX0400

SUPER DOME

Installation Preparation . . .

Approx. 5 hours

Installation Time: 2 man-hours

Weight: 400 Lbs. (180 Kilos)

Approx. 4 cubic feet Concrete Required:

Use Zone:

6 ft. (1829 mm) all sides

User Group:

Ages 5 - 12

Torque Specification:

Snug tighten and tighten an additional one-half turn.

Bolts & Nuts:

Set Screws:

Snug tighten and tighten an additional full turn.

Maintenance . . .

• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

MODEL XX1079

TETHERBALL POST AND BALL

Installation Preparation . . .

Two (2) adults

Recommended Crew: 3 man-hours

Installation Time: 1 man-hour

Weight: 34.3 Lbs. (15.6 Kilos)

0.14 cubic yard Concrete Required:

Torque Specification:

Snug tighten and tighten an additional one-half turn.

Bolts & Nuts:

Set Screws:

Snug tighten and tighten an additional full turn.

Maintenance . . .

• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

MODEL XX1455

PIPE FRAME SWINGING BENCH

Installation Preparation . . .

Two (2) adults

Recommended Crew: 3 man-hours

Installation Time: 1 man-hour

Weight: 130 Lbs. (58.5 Kilos)

Concrete Required: .26 cubic yard

Use Zone:

6 ft. (1829 mm) all sides

16 ft. (6096 mm) front and back of top rail

Total:

21 ft. (6401 mm) x 32-1/2 ft. (9906 mm)

Torque Specification:

Snug tighten and tighten an additional one-half turn.

Bolts & Nuts:

Set Screws:

Snug tighten and tighten an additional full turn.

Maintenance . . .

• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
### EASTERLY PARKWAY ELEMENTARY SCHOOL

#### CHALLENGER Play Structure: 034212

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZZCH0009GZ</td>
<td>3-1/2&quot; O.D. X 112&quot; GROUNDZERO POST</td>
<td>2</td>
</tr>
<tr>
<td>ZZCH6860</td>
<td>CHALLENGE WALK</td>
<td>2</td>
</tr>
<tr>
<td>ZZCHGUID</td>
<td>CHALLENGER GUIDELINES</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9936</td>
<td>MAINTENANCE BOOK</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9990</td>
<td>TOOL &amp; ADDITIONAL PARTS KIT W/AEROSOL</td>
<td>1</td>
</tr>
</tbody>
</table>

This modular unit contains 01 active play components that will accommodate approximately 2 users and take approximately 5.5 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.25 yards of concrete for footings.

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#### EASTERLY PARKWAY ELEMENTARY SCHOOL

#### CHALLENGER Play Structure: 033278A

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZZCH0028</td>
<td>3-1/2&quot; O.D. X 136&quot; STEEL POST W/RIVETED CAP</td>
<td>4</td>
</tr>
<tr>
<td>ZZCH0038GZ</td>
<td>3-1/2&quot; O.D. X 148&quot; GROUNDZERO POST</td>
<td>2</td>
</tr>
<tr>
<td>ZZCH1850</td>
<td>3-1/2&quot; O.D. CANTILEVER POST FOR MONORAILS</td>
<td>3</td>
</tr>
<tr>
<td>ZZCH6970</td>
<td>CLIMB ACROSS</td>
<td>1</td>
</tr>
<tr>
<td>ZZCH5736</td>
<td>CHINNING/TURNING BAR</td>
<td>1</td>
</tr>
<tr>
<td>ZZCH5780</td>
<td>6' HORIZONTAL LOOP LADDER</td>
<td>1</td>
</tr>
<tr>
<td>ZZCH5960</td>
<td>OVERHEAD EVENT ACCESS LADDER (24&quot; DECK)</td>
<td>2</td>
</tr>
<tr>
<td>ZZUN6990</td>
<td>MONORAIL SECTION FOR CANTILEVER POSTS</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN7000</td>
<td>MONORAIL EXTENSION FOR CANTILEVER POSTS</td>
<td>1</td>
</tr>
<tr>
<td>ZZCH6608</td>
<td>LIFT-ME-UP</td>
<td>1</td>
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<td>ZZCHGUID</td>
<td>CHALLENGER GUIDELINES</td>
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</tr>
<tr>
<td>ZZUN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9930</td>
<td>PIPE SYSTEM MAINTENANCE KIT W/AEROSOL</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9990</td>
<td>TOOL &amp; ADDITIONAL PARTS KIT W/AEROSOL</td>
<td>1</td>
</tr>
</tbody>
</table>

This modular unit contains 07 active play components that will accommodate approximately 9 users and take approximately 26.5 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 1.34 yards of concrete for footings.
Footing Notes:
A. If play unit is installed on uneven terrain, maintain support post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
B. Footing size may vary due to local soil and weather conditions.
C. Base of footing must be below frost line.
**CHALLENGERS® MODEL CH1850 CANTILEVER POST**

**Installation Preparation**
- Two (2) adults

**Recommended Crew:**
- Installation Time: 2 man-hours

**Weight:**
- 78.2 Lbs. (35.2 Kilos)

**Concrete Required:**
- .18 cubic yards

**Torque Specification:**
- Snug tighten and
- Bolts & Nuts: tighten an additional one-half turn.

**Set Screws:**
- Snug tighten and
- tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Assembly View**

---

**CHALLENGERS® MODEL CH5736 CHINNING / TURNING BAR**

**Installation Preparation**
- One (1) adult

**Recommended Crew:**
- Installation Time: .5 man-hour

**Weight:**
- 5.9 Lbs. (2.7 Kilos)

**User Group:**
- Ages 6 and up

**Torque Specification:**
- Bolts & Nuts: Snug tighten and
- tighten an additional one-half turn.

**Set Screws:**
- Snug tighten and
- tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Assembly View**

---

**CHALLENGERS® MODEL CH5780 6 ft. (1829 mm) HORIZONTAL LOOP LADDER**

**Installation Preparation**
- Three (3) adults

**Recommended Crew:**
- Installation Time: 1 man-hour

**Weight:**
- 55.7 Lbs. (25.3 Kilos)

**Use Zone:**
- 72 in. (1829 mm) all sides

**User Group:**
- Ages 5 - 12 years

**Torque Specification:**
- Bolts & Nuts: Snug tighten and
- tighten an additional full turn.

**Set Screws:**
- Snug tighten and
- tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Assembly View**

---

**CHALLENGERS® MODEL CH5960 OVERHEAD EVENT ACCESS LADDER**

**Installation Preparation**
- One (1) adult

**Recommended Crew:**
- Installation Time: Approx. 1-1/2 hour

**Weight:**
- 26 Lbs. (12 Kilos)

**Use Zone:**
- Approx. .06 cubic yard

**User Group:**
- Ages 5 - 12

**Torque Specification:**
- Snug tighten and
- tighten an additional one-half turn.

**Set Screws:**
- Snug tighten and
- tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Assembly View**
**UNIVERSAL MODEL UN7000 MONORAIL EXTENSION**

**Installation Preparation**

Recommended Crew: One (1) adult

Installation Time: 15 to 20 minutes

**Maintenance**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**SURFACING WARNING LABEL**

**INSTALLATION INSTRUCTIONS**

**UNIVERSAL MODEL UN910 SURFACING WARNING LABEL**

**WARNING**

INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PAVED EARTH MAY RESULT IN DEATH OR INJURY ON FALLS.

**PLAYWORLD SYSTEMS**

**ECN-774**

**PLAYWORLD SYSTEMS®**

**10 ft. (3048 mm) STANDARD DUTY SWING ADD-A-BAY**

**Assembly View**

**Installation Preparation**

Recommended Crew: Two (2) adults

Installation Time: 3 man-hours

**Maintenance**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Installation Instructions**

**UNIVERSAL MODEL XX0231**

**Assembly View**

**Installation Preparation**

Recommended Crew: Three (3) adults

Installation Time: 3 man-hours

**Maintenance**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Model XX0249**

**Assembly View**

**Installation Preparation**

Recommended Crew: Two (2) adults

Installation Time: 3 man-hours

**Maintenance**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
Installation Instructions

**PLAYWORLD SYSTEMS®**

**MODEL XX0295**

Single Post Swing Assembly

**8 ft. (2438 mm)**

**Installation Preparation**

- **Recommended Crew:** Two (2) adults
- **Installation Time:** 2.5 hours
- **Concrete Required:** 308 lbs. (139 Kilos)
- **Use Zone:** 6 ft. (1829 mm) all sides
- **User Group:** Age (years): ASTM/CSA: 1.5-12, EN: 2-14

**Torque Specification:**

- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance:**

- The swing frame is designed for outdoor play and requires regular maintenance.
- Playworld Systems recommends inspecting the frame and hardware at least twice a year.
- Always replace any damaged or worn parts.
- Never use playground equipment when it is wet or snow covered.
- Keep the area around the swing frame clear of debris and litter.

**Assembly View**

Refer to the elevation view for critical fall height for the component.
CHALLENGER

Play Structure: 020281

LILY PODS

Part No. Description Qty.

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This modular unit contains 01 active play components that will accommodate approximately 3 users and take approximately 9.4 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.75 yards of concrete for footings.

Thursday, January 24, 2002

Torque Specification:

Bolts & Nuts:
Snug tighten and tighten an additional one-half turn.

Set Screws:
Snug tighten and tighten an additional full turn.

Maintenance . . .

Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Assembly View

Ground Zero® 112 in. (2845 mm)

Steel Support Post with Cap

Recommended Crew:
Two (2) adults

Installation Time:
1 man-hour

Weight:
35.1 Lbs. (16 Kilos)

Concrete Required:
0.18 cubic yard
**INSTALLATION INSTRUCTIONS**

**CHALLENGERS®**

**MODEL CH0018**

124 in. (3150 mm) STEEL SUPPORT POST WITH CAP

**Installation Preparation . . .**

Two (2) adults

**Recommended Crew:**

**Installation Time:**

38.9 Lbs. (17.5 Kilos)

**0.13 cubic yard Concrete Required:**

**Torque Specification:**

Snug tighten and tighten an additional one-half turn.

**Bolts & Nuts:**

Snug tighten and tighten an additional full turn.

**Set Screws:**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**MODEL CH0028**

136 in. (3454 mm) STEEL SUPPORT POST WITH CAP

**Installation Preparation . . .**

Two (2) adults

**Recommended Crew:**

**Installation Time:**

**Weight:**

**0.5 man-hour**

**Torque Specification:**

Snug tighten and tighten an additional one-half turn.

**Bolts & Nuts:**

Snug tighten and tighten an additional full turn.

**Set Screws:**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**MODEL CH0038GZ**

148 in. (3759 mm) GROUNDZERO STEEL SUPPORT POST WITH CAP

**Installation Preparation . . .**

Two (2) adults

**Recommended Crew:**

**Installation Time:**

**Weight:**

**Concrete Required:**

**0.18 cubic yard**

**Torque Specification:**

Snug tighten and tighten an additional one-half turn.

**Bolts & Nuts:**

Snug tighten and tighten an additional full turn.

**Set Screws:**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**MODEL CH0048**

160 in. (4064 mm) STEEL SUPPORT POST WITH CAP

**Installation Preparation . . .**

Two (2) adults

**Recommended Crew:**

**Installation Time:**

**Weight:**

**Concrete Required:**

**0.1 cubic yards**

**Torque Specification:**

Snug tighten and tighten an additional one-half turn.

**Bolts & Nuts:**

Snug tighten and tighten an additional full turn.

**Set Screws:**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
INSTALLATION INSTRUCTIONS

CHALLENGERS®

STEEL SUPPORT POST

Installation Preparation

- Concrete Required: Approx. 1.1 cubic feet
- Set Screws: Tighten an additional one-half turn
- Torque Specification: Snug tighten and
- bolts & nuts: Tighten an additional one-half turn.

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play.

Assembly View

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
**INSTALLATION INSTRUCTIONS**

**CHALLENGERS**

**MODEL CH2736**

**ONE PIECE 360° PLASTIC SPIRAL SLIDE**

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### Installation Preparation

- **Recommended Crew:** Four (4) adults
- **Installation Time:** 6 man-hours
- **Torque Specification:** Snug tighten and tighten an additional full turn.
- **Weight:** 584.3 Lbs. (262.9 Kilos)
- **Concrete Required:** 0.2 cubic yards
- **Use Zone:** 6 ft. (1829 mm) in front of slide exit, 6 ft. (1829 mm) all other sides
- **User Group:** Ages 2 - 12 years

---

### Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Assembly View**

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**INSTALLATION INSTRUCTIONS**

**CHALLENGERS**

**MODEL CH2758**

**72 in. (1829 mm) LIGHTNING SLIDE**

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### Installation Preparation

- **Recommended Crew:** Three (3) adults
- **Installation Time:** Approx. 2 man-hours
- **Torque Specification:** Snug tighten and tighten an additional one-half turn.
- **Weight:** 173 Lbs. (78 Kilos)
- **Concrete Required:** Approx. .09 cubic yard
- **Use Zone:** 10 ft. (3048 mm) in front of slide exit, 6 ft. (1829 mm) all other sides
- **User Group:** Ages 2 - 12 years

---

### Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Assembly View**

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**INSTALLATION INSTRUCTIONS**

**CHALLENGERS**

**MODEL CH3520**

**36 in. (914 mm) LIGHTNING WIDE SLIDE**

---

### Installation Preparation

- **Recommended Crew:** Approx. 2 hours
- **Installation Time:** 77 Lbs. (35 Kilos)
- **Concrete Required:** Approx. 2 cubic feet
- **Use Zone:** 6 ft. (1829 mm) all sides, 7 ft. (2140 mm) in front of slide exit
- **User Group:** Ages 2 - 12 years

---

### Maintenance

- Torque Specification: Snug tighten and tighten an additional one-half turn. Snug tighten and tighten an additional full turn.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Assembly View**

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**INSTALLATION INSTRUCTIONS**

**CHALLENGERS**

**MODEL CH3530**

**36 in. (914 mm) LIGHTNING WIDE SLIDE**

---

### Installation Preparation

- **Recommended Crew:** Approx. 2 hours
- **Installation Time:** 77 Lbs. (35 Kilos)
- **Concrete Required:** Approx. 2 cubic feet
- **Use Zone:** 6 ft. (1829 mm) all sides, 7 ft. (2140 mm) in front of slide exit
- **User Group:** Ages 2 - 12 years

---

### Maintenance

- Torque Specification: Snug tighten and tighten an additional one-half turn. Snug tighten and tighten an additional full turn.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Assembly View**

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**INSTALLATION INSTRUCTIONS**

**CHALLENGERS**

**MODEL CH4366**

**EAGLE'S PERCH**

---

### Installation Preparation

- **Recommended Crew:** Approx. 2 hours
- **Installation Time:** 147.1 Lbs. (66.2 Kilos)
- **Concrete Required:** 6 ft. (1829 mm) all sides
- **User Group:** Ages 2 - 12 years

---

### Maintenance

- Torque Specification: Snug tighten and tighten an additional one-half turn. Snug tighten and tighten an additional full turn.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**Assembly View**

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**INSTALLATION INSTRUCTIONS**

**CHALLENGERS**

**MODEL CH4366**

**EAGLE'S PERCH**

---

### Installation Preparation

- **Recommended Crew:** Approx. 2 hours
- **Installation Time:** 147.1 Lbs. (66.2 Kilos)
- **Concrete Required:** 6 ft. (1829 mm) all sides
- **User Group:** Ages 2 - 12 years

---

### Maintenance

- Torque Specification: Snug tighten and tighten an additional one-half turn. Snug tighten and tighten an additional full turn.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Assembly View**

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Page 1 of 7 Model CH4366
INSTALLATION INSTRUCTIONS

MODEL CH4646
STOREFRONT PANEL

Installation Preparation . . .
Recommended Crew:
Two (2) adults
Installation Time:
1 man-hour
Weight:
34 Lbs. (15.3 Kilos)
Use Zone:
6 ft. (1829 mm) all sides
Ages 2 - 5 years
Torque Specification:
Snug tighten and tighten an additional one-half turn.
Snug tighten and tighten an additional full turn.
Set Screws:

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

Assembly View

MODEL CH5190
OVAL CRAWL THRU PANEL

Installation Preparation . . .
Recommended Crew:
One (1) Adult
Installation Time:
0.5 hour
Weight:
Torque Specification:
Bolts & Nuts:
Snug tighten and tighten an additional full turn.
Set Screws:

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

Assembly View
**INSTALLATION INSTRUCTIONS**

**CHALLENGERS®**

**MODEL CH5807**

10 ft. (3048 mm) WAVE LADDER

**Installation Preparation . . .**

**Recommended Crew:** Three (3) adults

**Installation Time:**

**Weight:** 64.8 Lbs. (29.5 Kilos)

**Use Zone:** 6 ft. (1829 mm) all sides

**Ages 5 - 12**

**User Group:**

**Torque Specification:**

**Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.

**Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**OVERHEAD EVENT ACCESS LADDER**

**MODEL CH5970**

**Installation Preparation . . .**

**Recommended Crew:** One (1) adult

**Installation Time:** 1.5 hour

**Weight:** 25.1 Lbs. (11.3 Kilos)

**Concrete Required:** 0.06 cubic yard

**Use Zone:** 6 ft. (1829 mm) all sides

**User Group:** Ages 5 - 12

**Torque Specification:**

**Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.

**Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**LILY PODS**

**Installation Preparation . . .**

**Recommended Crew:** Four (4) adults

**Installation Time:** 3 hours

**Weight:** 169 Lbs. (76.1 Kilos)

**Concrete Required:** .05 cubic feet

**Use Zone:** 6 ft. (1829 mm) all sides

**User Group:** Ages 5 - 12 years

**Torque Specification:**

**Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.

**Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

---

**U-BOUNCE**

**Installation Preparation . . .**

**Recommended Crew:** Two (2) adults

**Installation Time:** 3 man-hours

**Weight:** 102.7 Lbs. (46.2 Kilos)

**Use Zone:** 7 ft. (2134 mm) all sides

**Ages 5 - 12 years**

**User Group:**

**Torque Specification:**

**Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.

**Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
**CHALLENGERS®**

**MODEL CH6860**

**CHALLENGE WALK**

**Torque Specification:**

- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Assembly View**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Installation Preparation . . .**

- **Recommended Crew:** One (1) adult
- **Installation Time:** 2 hours
- **Weight:** 59.2 Lbs. (26.7 Kilos)
- **Use Zone:** 7 ft. (2134 mm) all sides
- **User Group:** Ages 5 - 12 years

---

**MODEL CH6886**

**SHORTY SKY ROCKER**

**Torque Specification:**

- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Assembly View**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Installation Preparation . . .**

- **Recommended Crew:** Two (2) adults
- **Installation Time:** 1 man-hour
- **Weight:** 38.9 Lbs. (17.7 Kilos)
- **Use Zone:** 72 in. (1829 mm) all sides
- **User Group:** Ages 5 - 12 years

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**MODEL CH7080**

**6 ft. (1829 mm) CATWALK**

**Torque Specification:**

- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Assembly View**

**Maintenance . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Installation Preparation . . .**

- **Recommended Crew:** Three (3) adults
- **Installation Time:** Approx. 1-1/2 man-hours
- **Weight:** 277 Lbs. (126 Kilos)
- **Use Zone:** 6 ft. (1829 mm) all sides
- **User Group:** Ages 2 - 12
INSTALLATION INSTRUCTIONS
CHALLENGERS
MODEL CH17430
32 in. (813 mm) DEEP PLUNG ARCH CLIMBER

Assembly View

Torque Specification:
Bolts & Nuts:
Snug tighten and tighten an additional one-half turn.
Set Screws:
Snug tighten and tighten an additional full turn.

Maintenance:
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS
CHALLENGERS
MODEL CH1717
36 in. (914 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

Assembly View

Torque Specification:
Bolts & Nuts:
Snug tighten and tighten an additional one-half turn.
Set Screws:
Snug tighten and tighten an additional full turn.

Maintenance:
• PlayDesigns strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• PlayDesigns strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS
UNIVERSAL
MODEL UN2019
PLATFORM - APPROACH STEP

Assembly View

Torque Specification:
Bolts & Nuts:
Snug tighten and tighten an additional one-half turn.
Set Screws:
Snug tighten and tighten an additional full turn.

Maintenance:
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
INSTALLATION INSTRUCTIONS

PLAYWORLD SYSTEMS®
MODEL UN4280
PIPE WALL MOUNT TELESCOPE

Torque Specifications:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance:
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation:
Recommended Crew: One (1) adult
Installation Time: 1 hour
Weight: 9.5 Lbs. (4.3 Kilos)
User Group: Ages 2 - 12 years

Assembly View

INSTALLATION INSTRUCTIONS

UNIVERSAL
MODEL UN4340
STEERING WHEEL
Oval Panel Mount

Torque Specifications:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance:
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation:
Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Weight: 5.1 Lbs. (2.3 Kilos)
User Group: Ages 2 - 12 years

Assembly View

INSTALLATION INSTRUCTIONS

UNIVERSAL
MODEL UN9910
SURFACING WARNING LABEL

Maintenance:
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation:
Recommended Crew: One (1) adult
Installation Time: 15 to 20 minutes

Assembly View

INSTALLATION INSTRUCTIONS

CHALLENGERS® CLAMP ASSEMBLIES

We have provided the following typical assembly drawings of the Challengers clamps for your reference. These assemblies are performed throughout the installation of your structure.

Centerline Clamp Assemblies
Pipe Clamp Assembly
Component
Drive Rivet
3/8" x 1/2" Set Screw
3/8" x 1-1/4" Tamper Resistant Bolt
Pipe Clamp
Pipe Clamp Assembly
Component
Drive Rivet
3/8" x 1/2" Set Screw
3/8" x 1-1/4" Tamper Resistant Bolt
Centerline Clamp

Band Clamp Assembly
Component
Drive Rivet
3/8" Flat Washer
Housing
Pipe Clamp Assembly
Component
Drive Rivet
3/8" Flat Washer
Housing
Pipe Clamp Assembly
HARDWARE

During installation, misaligned drawings are quick reference.

**INSTALLATION INSTRUCTIONS**

**PLAYWORLD SYSTEMS**

**MODEL XX0244**

ACCESSIBLE SWING SEAT

8 ft. (2438 mm) TOP SWING HEIGHT

**Torque Specification:**

- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Assembly View**

Installation Preparation...

- **Recommended Crew:** One (1) adult
- **Installation Time:** 0.25 hour
- **Weight:** 29.9 lbs. (13.6 Kilos)
- **Use Zone:** 26 ft. (7925 mm) Total Front and Back
- **User Group:** Ages 5 and up

Maintenance...

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**INSTALLATION INSTRUCTIONS**

**PLAYWORLD SYSTEMS**

**MODEL XX0252**

8 ft. (2438 mm) 4-UNIT STANDARD SWING

**Torque Specification:**

- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Assembly View**

Installation Preparation...

- **Recommended Crew:** Three (3) adults
- **Installation Time:** 5 man-hours
- **Weight:** 359.6 Lbs. (163.5 Kilos)
- **Concrete Required:** 0.78 cubic yard
- **Use Zone:** See page 5 for Swing Use Zone Information.
- **User Group:** Ages 2-12

Maintenance...

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
PLAYWORLD SYSTEMS

8 ft. (2438 mm) 8-UNIT STANDARD SWING

Installation Preparation . . .
Recommended Crew: Three (3) adults
Installation Time: 9 man-hours
Weight: 639.9 Lbs. (290.6 Kilos)
Concrete Required:
Use Zone: See page 1 for Swing Use Zone information.
User Group: Ages 2-12
Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional full turn.
Set Screws: Snug tighten and tighten an additional one-half turn.

Maintenance . . .
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Assembly View

PLAYWORLD SYSTEMS

BELT SWING WITH GALVANIZED CHAIN

Installation Preparation . . .
Recommended Crew: Installation Time: 3 man-hours
Weight: 8.3 lbs. (3.8 Kilos)
Concrete Required:
Use Zone: 32 ft. (9754 mm) Total Front and Back
User Group: Ages 5 and up
Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional full turn.
Set Screws: Snug tighten and tighten an additional one-half turn.

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Assembly View

PLAYWORLD SYSTEMS

HYPERRAY

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 3 man-hours
Weight: 64.4 Lbs. (29 Kilos)
Concrete Required:
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 5 - 12 years
Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
### Installation Instructions

**Model XX0729: Zebra w/ Coil Spring**

**Installation Preparation**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** 2 man-hours
- **Weight:** 68 Lbs. (31 Kilos)
- **Concrete Required:** .07 cubic yard
- **Use Zone:** 72 in. (1829 mm) all sides

**User Group:**
- **Torque Specification:**
  - **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
  - **Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

**As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.**

---

**Model XX0737: Chipmunk w/ Coil Spring**

**Installation Preparation**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** Approx. 2 man-hours
- **Weight:** 61 Lbs. (28 Kilos)
- **Concrete Required:** Approx. 2 cubic feet
- **Use Zone:** 6 ft. (1829 mm) all sides

**User Group:** Ages 2 - 12 years

**Torque Specification:**
- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

**As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.**

---

**Model XX0741: Turtle w/ Coil Spring**

**Installation Preparation**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** 2.5 man-hours
- **Weight:** 65.5 Lbs. (29.8 Kilos)
- **Concrete Required:** .07 cubic yard
- **Use Zone:** 6 ft. (1829 mm) all sides

**User Group:** Ages 2 - 12 years

**Torque Specification:**
- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

**As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.**

---

**Model XX1013: Tri-Level Bars**

**Installation Preparation**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** 2.5 man-hours
- **Weight:** 53.7 Lbs. (24.2 Kilos)
- **Concrete Required:** 0.12 cubic yards
- **Use Zone:** 6 ft. (1829 mm) all sides

**User Group:** Ages 5 - 12 years

**Torque Specification:**
- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

**As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.**
### Playworld Equipment

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>ZZCH0028</td>
<td>3.5in OD x 136in STEEL POST W/ RIVETED CAP</td>
<td>4</td>
</tr>
<tr>
<td>ZZCH0049</td>
<td>3.5in OD x 160in STEEL POST W/O CAP</td>
<td>12</td>
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<tr>
<td>ZZCH0059</td>
<td>3.5in OD x 172in STEEL POST W/O CAP</td>
<td>13</td>
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<tr>
<td>ZZCH0077</td>
<td>3.5in OD x 200in STEEL POST W/O CAP</td>
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<tr>
<td>ZZCH0616</td>
<td>SQUARE COATED DECK ASSEMBLY</td>
<td>15</td>
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<tr>
<td>ZZCH0619</td>
<td>FULL HEX COATED DECK ASSEMBLY</td>
<td>16</td>
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<tr>
<td>ZZCH0678</td>
<td>NUVO- 48in TRANSFER STATION</td>
<td>17</td>
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<tr>
<td>ZZCH3126</td>
<td>GLIDE SLIDE (48in DECK)</td>
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<tr>
<td>ZZCH3537</td>
<td>SLIDE- NUVO 360 SPIRAL SLIDE</td>
<td>19</td>
</tr>
<tr>
<td>ZZCH4290</td>
<td>POST MOUNTED STEERING WHEEL</td>
<td>110</td>
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<tr>
<td>ZZCH4646</td>
<td>STORE FRONT PANEL</td>
<td>111</td>
</tr>
<tr>
<td>ZZCH4807</td>
<td>OVAL INSERT PANEL (DECK MOUNT)</td>
<td>112</td>
</tr>
<tr>
<td>ZZUN4796</td>
<td>OVAL BUBBLE PANEL INSERT</td>
<td>113</td>
</tr>
<tr>
<td>ZZCH7160</td>
<td>6ft TWISTED CLIMBER</td>
<td>114</td>
</tr>
<tr>
<td>ZZCH7227</td>
<td>ROPE CLIMBER (48in DECK)</td>
<td>115</td>
</tr>
<tr>
<td>ZZCH8280</td>
<td>HOPSCOTCH CLIMBER (72in DECK)</td>
<td>116</td>
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<tr>
<td>ZZCH4557</td>
<td>8in BELL (POST MOUNT)</td>
<td>117</td>
</tr>
<tr>
<td>ZZCH9848</td>
<td>MEDIUM LOLLITOPS</td>
<td>118</td>
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<tr>
<td>ZZCH9849</td>
<td>LARGE LOLLITOPS</td>
<td>119</td>
</tr>
<tr>
<td>ZZCH9868</td>
<td>NUVO SWIRL ROOF</td>
<td>120</td>
</tr>
<tr>
<td>ZZCH9170</td>
<td>24in ACCESS STEPPED PLATFORM (DECK TO DECK)</td>
<td>121</td>
</tr>
</tbody>
</table>

### Installation Instructions

**Challengers® Models CH0007, CH0009, CH0018, CH0028, CH0038, CH0048, CH0058, CH0068, CH0076, CH0256, CH0258**

**Steel Support Post w/ Cap**
- 100 in. (2540 mm) to 224 in. (5690 mm)

**Installation Preparation**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** 1 man-hour
- **Concrete Required:** 0.13 cubic yard (0.10 cubic meters)

**Assembly View**
(Representative model)

---

**Models CH0019, CH0029, CH0039, CH0049, CH0059, CH0069, CH0077, CH0137, CH0139, CH0257, CH0259**

**Steel Support Post w/o Cap**
- 100 in. (2540 mm) to 224 in. (5690 mm)

**Installation Preparation**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** 1 man-hour
- **Concrete Required:** 0.13 cubic yard (0.10 cubic meters)

**Assembly View**
(Representative model)
Installation Instructions

Challengers® Models: CH0019, CH0029, CH0039, CH0049, CH0059, CH0069, CH0077, CH0137, CH0139, CH0257, CH0259
Steel Support Post w/o Cap
103 in. (2540 mm) to 224 in. (5690 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Concrete Required: 0.13 cubic yard (0.10 cubic meters)

Assembly View (representative model)
Installation Instructions
Challengers® Models CH0678, CH0678S, CH0679 and CH0679S
Nuvo™ Transfer Station
48 in. (1219 mm) and 36 in. (914 mm) Decks
In-Ground and Surface Mount

Installation Preparation
- Drill
- Dig Footing Holes
- Hammer
- Pour Concrete

Critical Fall Height

Assembly View (representative model)

Model Deck Height
- CH3128 24-30" (610-762 mm)
- CH3127 36" (915 mm)
- CH3126 48" (1220 mm)
- CH2658 60" (1525 mm)
- CH2696 72" (1830 mm)

Recommended Crew: Two (2) adults
Installation Time (In-ground): 3.5 man-hours
Installation Time (Surface Mount): 1.5 man-hours
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

Installation Instructions
Challengers® Models CH2658, CH2696, CH3126-CH3128
24”-72” (610-1829 mm) Glide Slides

Installation Preparation
- Drill
- Dig Footing Holes
- Hammer
- Pour Concrete

Critical Fall Height

Assembly View (representative model)

Model Deck Height
- CH3128 24-30" (610-762 mm)
- CH3127 36" (915 mm)
- CH3126 48" (1220 mm)
- CH2658 60" (1525 mm)
- CH2696 72" (1830 mm)

Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
User Group Age (years): ASTM/CSA: 1.5-12, EN: 2-14
48”-72”: ASTM/CSA: 5-12, EN: 6-14

Installation Instructions
Challengers® Models CH3537 and CH3537S
Nuvo™ 360 ° Spiral Slide
In-Ground and Surface Mount

Installation Preparation
- Drill
- Dig Footing Holes
- Hammer
- Pour Concrete

Critical Fall Height

Assembly View (representative model)

Model CH4290

Recommended Crew: One (1) adult
Installation Time: 0.25 man-hours
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14
Installation Instructions
Challengers® Models CH4556, CH4557, CH4558, and CH4559
7 in. (178 mm), 8 in. (203 mm), 9 in. (229 mm), and 10 in. (254 mm)

Installation Preparation
Recommended Crew: One (1) adult
Installation Time: 0.25 hour

Assembly View (representative model)

<table>
<thead>
<tr>
<th>Model</th>
<th>Bell Diameter</th>
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<td>CH4556</td>
<td>7&quot; (178 mm)</td>
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<tr>
<td>CH4557</td>
<td>8&quot; (203 mm)</td>
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<tr>
<td>CH4558</td>
<td>9&quot; (229 mm)</td>
</tr>
<tr>
<td>CH4559</td>
<td>10&quot; (254 mm)</td>
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</tbody>
</table>

Installation Instructions
Challengers® Model CH4646
Storefront Panel

Installation Preparation
Recommended Crew: Two (2) adults
Installation Time: 1 hour

Assembly View

Installation Instructions
Challengers® Model CH4807
Oval Insert Panel (Deck Mount)

Installation Preparation
Recommended Crew: One (1) adult
Installation Time: 0.5 hour

Assembly View

Installation Instructions
Challengers® Models CH7160, CH7166, and CH7167
Twisted Climber
6 ft. (1829 mm), 7 ft. (2134 mm), and 8 ft. (2438 mm)

Installation Preparation
Recommended Crew: Two (2) adults
Installation Time: 2 hours

Assembly View (representative model)

<table>
<thead>
<tr>
<th>Model</th>
<th>Deck Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH7160</td>
<td>72&quot; (1830 mm)</td>
</tr>
<tr>
<td>CH7166</td>
<td>84&quot; (2134 mm)</td>
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<tr>
<td>CH7167</td>
<td>96&quot; (2743 mm)</td>
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</table>
Installation Instructions

Challengers® Models CH9226 and CH9227
Rope Climber
36 in. (914 mm) and 48 in. (1219 mm) Decks

Installation Preparation

- Recommended Crew: One (1) adult
- Installation Time: 2 hours
- Concrete Required: 0.06 cubic yards
- User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

Assembly View (representative model)

Installation Instructions

Challengers® Models CH8260, CH8270, and CH8280
Hopscotch Climber
48 in. (1219 mm), 54 in. (1372 mm), 60 in. (1524 mm), 66 in. (1676 mm), 72 in. (1829 mm)

Installation Preparation

- Recommended Crew: Two (2) adults
- Installation Time: 2 hours
- Concrete Required: 0.06 cubic yards
- User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

Assembly View (representative model)

Installation Instructions

Challengers® Models CH9168, CH9170, and CH9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and 36” (914 mm) Rise Height

Installation Preparation

- Recommended Crew: Two - Three (2-3) adults
- Installation Time: 0.5 installation-hour
- Use Zone: Refer to Master Drawing

Assembly View (representative model)

Installation Instructions

Challengers® Models CH9847-9849
Small, Medium, and Large Lollitops Roof

Installation Preparation

- Recommended Crew: Two (2) adults
- Installation Time: 0.5 installation-hour
- Use Zone: Refer to Master Drawing

Assembly View (representative model)
Installation Instructions

**Challengers® Model CH9847-9849**

Small, Medium, and Large

Lollitops Roof

**Assembly View**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
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<tbody>
<tr>
<td>CH9847</td>
<td>Small</td>
</tr>
<tr>
<td>CH9848</td>
<td>Medium</td>
</tr>
<tr>
<td>CH9849</td>
<td>Large</td>
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</tbody>
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**Installation Preparation**

<table>
<thead>
<tr>
<th>Recommended Crew</th>
<th>Time</th>
<th>Use Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two (2) adults</td>
<td>0.5 installation-hour</td>
<td>Refer to Master Drawing</td>
</tr>
</tbody>
</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View (representative model)**

---

Installation Instructions

**Challengers® Model CH9868**

Nuvo Swirl Roof

**Assembly View**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
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**Installation Preparation**

<table>
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<tr>
<th>Recommended Crew</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Two (2) adults</td>
<td>1 man-hour</td>
<td>Refer to Master Drawing</td>
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</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View**

---

Installation Instructions

**Universal Model UN4796**

Oval Bubble Panel Insert

**Assembly View**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
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<tbody>
<tr>
<td>UN4796</td>
<td>Universal</td>
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**Installation Preparation**

<table>
<thead>
<tr>
<th>Recommended Crew</th>
<th>Time</th>
<th>Use Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) adult</td>
<td>0.5 hour</td>
<td>Refer to Master Drawing</td>
</tr>
</tbody>
</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View**

---

Installation Instructions

**Universal Model UN9910**

Surface Warning Label

**Assembly View**

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<thead>
<tr>
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**Installation Preparation**

<table>
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<th>Use Zone</th>
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<tr>
<td>One (1) adult</td>
<td>15 to 20 min</td>
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**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View**

---

Installation Instructions

**Challengers® Model CH9847-9849**

Small, Medium, and Large

Lollitops Roof

**Assembly View**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
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<tbody>
<tr>
<td>CH9847</td>
<td>Small</td>
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<tr>
<td>CH9848</td>
<td>Medium</td>
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<tr>
<td>CH9849</td>
<td>Large</td>
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**Installation Preparation**

<table>
<thead>
<tr>
<th>Recommended Crew</th>
<th>Time</th>
<th>Use Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two (2) adults</td>
<td>0.5 installation-hour</td>
<td>Refer to Master Drawing</td>
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</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View (representative model)**

---

Installation Instructions

**Challengers® Model CH9868**

Nuvo Swirl Roof

**Assembly View**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
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<tbody>
<tr>
<td>CH9868</td>
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**Installation Preparation**

<table>
<thead>
<tr>
<th>Recommended Crew</th>
<th>Time</th>
<th>Use Zone</th>
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<tbody>
<tr>
<td>Two (2) adults</td>
<td>1 man-hour</td>
<td>Refer to Master Drawing</td>
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</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View**

---

Installation Instructions

**Universal Model UN4796**

Oval Bubble Panel Insert

**Assembly View**

<table>
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<th>Size</th>
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<tr>
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**Installation Preparation**

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<thead>
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<th>Recommended Crew</th>
<th>Time</th>
<th>Use Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) adult</td>
<td>0.5 hour</td>
<td>Refer to Master Drawing</td>
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</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View**

---

Installation Instructions

**Universal Model UN9910**

Surface Warning Label

**Assembly View**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN9910</td>
<td>Universal</td>
</tr>
</tbody>
</table>

**Installation Preparation**

<table>
<thead>
<tr>
<th>Recommended Crew</th>
<th>Time</th>
<th>Use Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) adult</td>
<td>15 to 20 min</td>
<td>Refer to Master Drawing</td>
</tr>
</tbody>
</table>

**ICON KEY**

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer
- Critical Fall Height

**Assembly View**

---
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.

The following are full scale drawings of the hardware commonly used in structure assembly. During installation, use these drawings as a quick reference.

- 3/8" Hex Head Bolt
- 3/8" Barrel Nut
- 1/2" Hex Head Bolt
- 3/8" Thin Series Lock Nut
- 1/2" Hex Head Bolt
- 3/8" Carriage Bolt
- 3/8" Lock Nut
- 3/8" x 1-1/4" Tamper Resistant Bolt
- Bolt Cap & Washer
- 3/8" x 1-1/4" Set Screw
- 1/2" Flat Washer
- 1/2" Flat Washer
- 3/8" Flat Washer
- 1/4" Flat Washer
- 7/16" Flat Washer
- 1/2" Flat Washer
- Centerline Clamp
- Wide Band Clamp
- Band Clamp Assembly
- Drive Rivet
- Pipe Clamp
- AAU0625 Panel Connector
- Drive Rivet BAE0020
- Drive Rivet BAE0595
- Drive Rivet BAE0664
- 1/2 Hex Vinyl Deck Assembly
- ZZUN9990 Tool and Additional Parts Kit w/ Aerosol
- ZZUN9930 Maintenance Kit
- ZZUN9910 Surfacing Warning Label Kit
- ZZCHGUID General Guidelines for Challengers
- ZZCH9177 36" Accessible Tiered Platform (Deck to Deck)
- ZZCH7430 Deep Rung Arch Climber (72" Deck)
- ZZCH7220 Chain Net Climber (36" Deck)
- ZZCH7080 6' Catwalk
- ZZCH6886 Shorty Sky Rocker
- ZZCH5970 Overhead Event Access Ladder (36")
- ZZCH5807 10' Wave Ladder
- ZZCH5190 Crawl Thru Panel (Ground Level)
- ZZUN4340 Steering Wheel (Oval Panel Mount)
- ZZUN4280 Telescope (Pipe Wall Mount)
- ZZCH4646 Storefront Panel
- ZZCH4366 Eagle’s Perch
- ZZCH3520 Lightning Wide Slide (36" Deck)
- ZZUN2019 Approach Step For Transfer Station
- ZZCH2026 Transfer Station (36" Deck)
- ZZCH0618 1/2 Hex Vinyl Deck Assembly
- ZZCH0038GZ 3-1/2" x 148" Steel GroundZerO Post w/Riveted Cap
- ZZCH0009GZ 3-1/2" x 112" GroundZerO Post
- ZZCH0068 3-1/2" x 184" Steel Post w/ Riveted Cap
- ZZCH0028 3-1/2" x 136" Steel Post w/ Riveted Cap
- ZZCH0018 3-1/2" x 124" Steel Post w/ Riveted Cap
Installation Instructions

Challengers® Models CH0009GZ, CH0038GZ, CH0058GZ, & CH0068GZ

Assembly View

- GroundZero® Steel Support Post w/ Cap -
  - 112 in. (2845 mm), 148 in. (3759 mm),
  - 172 in. (4369 mm) & 184 in. (4674 mm)

Installation Preparation

- Recommended Crew: Two (2) adults
- Installation Time: 1 man-hour
- Weight: (refer to table on the next page)
- Concrete Required: 0.18 cubic yard (0.14 cubic meters)

Assembly View (representative model)

- Model CH8390
- ECN 1880

Installation Instructions

Challengers® Model CH8390

Assembly View

- GroundZerO® Adventure Stump Jump

Installation Preparation

- Recommended Crew: Two (2) adults
- Installation Time: 3 man-hours
- User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

Assembly View

- Icons:
  - Fully Tighten Hardware
  - Add 1 Drop of Thread Locking Adhesive
  - Do Not Fully Tighten Hardware

Models CH8398-CH8400, CH8406, & CH8408

Models Climber Name | Weight
--- | ---
ZZCH8398 Helix | 81.8 lbs. (37.2 kg)
ZZCH8399 Wave | 66.6 lbs. (30.3 kg)
ZZCH8400 Warp | 90.8 lbs. (41.3 kg)
ZZCH8406 X Factor | 48 lbs. (21.8 kg)
ZZCH8408 Grid | 103.7 lbs. (47.1 kg)

Installation Instructions

Challengers® Models CH8450 & CH8456

Assembly View

- The Sky Link & The Sky Arch

Installation Preparation

- Recommended Crew: Two (2) adults
- Installation Time: 0.5 man-hours
- User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

Assembly View (representative model)

- Icons:
  - Fully Tighten Hardware
  - Add 1 Drop of Thread Locking Adhesive
  - Do Not Fully Tighten Hardware

Models Climber Name | Weight
--- | ---
ZZCH8450 The Sky Link | 45.7 lbs. (20.8 kg)
ZZCH8456 The Sky Arch | 40.3 lbs. (18.3 kg)
**Installation Instructions**

**Challengers® Models CH9070 and CH9070S**

**Oval Crater Junction**

**In-Ground and Surface Mount**

**Installation Preparation**

- Recommended Crew: Two (2) adults
- Installation Time (in-ground): 3 man-hours
- Installation Time (surface mount): 2 man-hours

**Concrete Required (in-ground):** 0.06 cubic yard (0.04 cubic meter)

**User Group Age (years):** ASTM/CSA: 5-12, EN: 6-14

**User Group Size:** 3 adults

**Critical Fall Height:** 3.0 feet

**Assembly View**

---

**Installation Instructions**

**Challengers® Models CH9079 and CH9080**

**Adventure Series**

**Tri-Junction and Quad Junction Climbers**

**Installation Preparation**

- Recommended Crew: Two (2) adults
- Installation Time: 0.5 man-hour

**Concrete Required:** 0.06 cubic yard (0.04 cubic meter)

**User Group Age (years):** ASTM/CSA: 5-12, EN: 6-14

**User Group Size:** 3 adults

**Critical Fall Height:** 3.0 feet

**Assembly View**

---

**Installation Instructions**

**Challengers® Models CH9087 and CH9087S**

**Adventure Series**

**Crossover Climber**

**In-Ground and Surface Mount**

**Installation Preparation**

- Recommended Crew: Two (2) adults
- Installation Time (in-ground): 1.5 man-hours
- Installation Time (surface mount): 0.5 man-hour

**Concrete Required (in-ground):** 0.06 cubic yard (0.04 cubic meter)

**User Group Age (years):** ASTM/CSA: 5-12, EN: 6-14

**Assembly View**

---

**Installation Instructions**

**Universal Model UN9910**

**Surface Warning Label**

**Installation Preparation**

- Recommended Crew: One (1) adult
- Installation Time: 15 to 20 min

**Concrete Required:** 0.06 cubic yard (0.04 cubic meter)

**User Group Age (years):** 5-12

**Assembly View**

---
Installation Instructions
Playworld Systems® Model ZZX0065
Spincup

Installation Preparation
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Concrete Required: 0.06
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

Assembly View

_ICON KEY_

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer

Critical Fall Height
A - ASTM: 72 in. (1830 mm)
A - CSA: 1800 mm
A - EN: 2000 mm

Installation Instructions
Playworld Systems® Model ZZK0151
Spinami

Installation Preparation
Recommended Crew: Three (3) adults
Installation Time: 6 ...
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

Assembly View

_ICON KEY_

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer

Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)  (CSA) 1800 mm (EN) 2000 mm

Installation Instructions
Models XX0199 and XX0199S
Hoopla Swing

Installation Preparation
Recommended Crew: Two (2) adults
Installation Time (In-Ground): ...
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

Assembly View (representative structure)

_ICON KEY_

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer

Critical Fall Height
A

Installation Instructions
Models XX0182 and XX0182S
Unity Teeter Tunnel

Installation Preparation
Recommended Crew: Four (4) adults
Installation Time: ...
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

Assembly View (representative structure)

_ICON KEY_

- Fully Tighten Hardware
- Add 1 Drop of Thread Locking Adhesive
- Do Not Fully Tighten Hardware
- Pour Concrete
- Drill
- Dig Footing Holes
- Hammer

Critical Fall Height
A

Rocking/Springing Equipment Intended for Standing Use Zones
A =  ASTM: 84 in. (2134 mm)  CSA: 2100 mm  EN: 1500 mm
The modular unit will accommodate approximately 67 users and take approximately 64.4 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 3.84 yards of concrete for footings.

**Model XX9110**

**6 FT. (1829 mm) RECYCLED PLASTIC HEAVY DUTY PICNIC TABLE**

**Torque Specification:**
- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.

**Installation Preparation . . .**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** Approx. 1 hour
- **Weight:** 218 Lbs. (99 Kilos)

**Maintenance . . .**
- Playworld Systems strongly recommends routine inspection to insure that all fasteners are secure and that there is no damage that would cause injury or improper function of the equipment.

**Design No: 350-FF_C - Bill of Materials**

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posts</td>
<td>ZZCH0009GZ</td>
<td>3.5in OD x 112in GROUND ZERO POST</td>
<td>2</td>
</tr>
<tr>
<td>Balance</td>
<td>ZZCH6906</td>
<td>FLIP FLOP</td>
<td>1</td>
</tr>
<tr>
<td>Additional Tool &amp; Maintenance Kits</td>
<td>ZZCHGUID CHALLENGER GUIDELINES</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ZZUN9910 SURFACING WARNING LABEL KIT</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ZZUN9936 MAINTENANCE BOOK</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ZZUN9990 TOOL AND ADDITIONAL PARTS KIT W/AEROSOL</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Design No: VIP-601 - Bill of Materials**

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climbers</td>
<td>ZZUN0176 ROCKBLOCKS Z SUPPORT (60in WALL)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ZZUN0177 ROCKBLOCKS Z SUPPORT (84in WALL)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ZZUN8356 ROCKBLOCKS TRI LADDER (84in WALL)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ZZUN8357 ROCKBLOCKS KINKED WALL (84in)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ZZUN8360 ROCKBLOCKS END WALL (60in)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ZZUN8369 ROCKBLOCKS END WALL (84in)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ZZUN8370 ROCKBLOCKS 90 DEGREE WALL (84in TO 60in) RIGHT</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ZZUN8376 ROCKBLOCKS LADDER (60in TO 84in WALL)</td>
<td>1</td>
</tr>
</tbody>
</table>

<p>| Additional Tool &amp; Maintenance Kits | ZZCHGUID CHALLENGER GUIDELINES | 1 |
|                                   | ZZUN9910 SURFACING WARNING LABEL KIT | 1 |
|                                   | ZZUN9930 PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL | 1 |
|                                   | ZZUN9990 TOOL AND ADDITIONAL PARTS KIT W/AEROSOL | 1 |</p>
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZZCH0048</td>
<td>3.5in OD x 160in STEEL POST W/ RIVETED CAP</td>
<td>1</td>
</tr>
<tr>
<td>ZZCH0068</td>
<td>3.5in OD x 184in STEEL POST POST W/RIVETED CAP</td>
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</tr>
<tr>
<td>ZZCH0617</td>
<td>TRIANGULAR VINYL DECK ASSEMBLY</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN3157</td>
<td>SLITHER SLIDE BALCONY ENTRY/EXIT</td>
<td>3</td>
</tr>
<tr>
<td>ZZUN3158</td>
<td>SLITHER SLIDE (LEFT SECTION)</td>
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</tr>
<tr>
<td>ZZUN3167</td>
<td>SLITHER SLIDE SUPPORT LEG 5ft-6in</td>
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</tr>
<tr>
<td>ZZUN3176</td>
<td>SLITHER SLIDE SUPPORT LEG 2ft-6in</td>
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</tr>
<tr>
<td>ZZCH4095</td>
<td>CENTERLINE PIPE WALL BARRIER</td>
<td>1</td>
</tr>
<tr>
<td>ZZCH6190</td>
<td>24in DECK TO DECK CLIMBER</td>
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<tr>
<td>ZZCH9166</td>
<td>VINYL COATED LADDER (72in DECK)</td>
<td>1</td>
</tr>
<tr>
<td>ZZCHGUID</td>
<td>CHALLENGER GUIDELINES</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9910</td>
<td>SURFACING WARNING LABEL KIT</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9930</td>
<td>PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL</td>
<td>1</td>
</tr>
<tr>
<td>ZZUN9990</td>
<td>TOOL AND ADDITIONAL PARTS KIT W/AEROSOL</td>
<td>1</td>
</tr>
</tbody>
</table>
INSTALLATION INSTRUCTIONS

CHALLENGERS®

MODEL CH0007
STEEL SUPPORT POST
100 in. (2540 mm) with Cap

Installation Preparation

- Installation Time: Approx. 1 hour
- Concrete Required: Approx. 3.4 cubic feet
- Weight: 33 Lbs. (15 Kilos)

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Torque Specification

- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

---

INSTALLATION INSTRUCTIONS

CHALLENGERS®

MODEL CH0028
STEEL SUPPORT POST
136 in. (3454 mm) with Cap

Installation Preparation

- Installation Time: Approx. 1 hour
- Concrete Required: Approx. 3.4 cubic feet
- Weight: 49 Lbs. (22 Kilos)

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Torque Specification

- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

---

INSTALLATION INSTRUCTIONS

CHALLENGERS®

MODEL CH0038
STEEL SUPPORT POST
148 in. (3759 mm) with Cap

Installation Preparation

- Installation Time: Approx. 1 hour
- Concrete Required: Approx. 3.4 cubic feet
- Weight: 52 Lbs. (23 Kilos)

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Torque Specification

- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

---

INSTALLATION INSTRUCTIONS

CHALLENGERS®

MODEL CH0048
STEEL SUPPORT POST
160 in. (4064 mm) with Cap

Installation Preparation

- Installation Time: Approx. 1 hour
- Concrete Required: Approx. 3.4 cubic feet
- Weight: 60 Lbs. (27 Kilos)

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Torque Specification

- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.
INSTALLATION INSTRUCTIONS

CHALLENGERS

MODEL CH0068

STEEL SUPPORT POST

184 in. (4674 mm) with Cap

Torque Specification:

Bolts & Nuts:

Snug tighten and tighten an additional one-half turn.

Set Screws:

Snug tighten and tighten an additional full turn.

Installation Preparation . . .

Recommended Crew:

Two (2) adults

Installation Time:

1 man-hour

Weight:

57.1 Lbs. (26 Kilos)

Concrete Required:

0.13 cubic yards

User Group:

Ages 2 - 12 years

Maintenance . . .

• Playworld Systems ® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems ® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 4 Model CH0058

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INSTALLATION INSTRUCTIONS

CHALLENGERS

MODEL CH0058

STEEL SUPPORT POST

172 in. (4369 mm) with cap

Torque Specification:

Bolts & Nuts:

Snug tighten and tighten an additional one-half turn.

Set Screws:

Snug tighten and tighten an additional full turn.

Maintenance . . .

• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation . . .

Installation Time:

Approx. 1 hour

Weight:

56 Lbs. (25 Kilos)

Concrete Required:

Approx. 3.4 cubic feet

Use Zone:

6 ft. (1829 mm) all sides

Page 1 of 2 PA483

CHALLENGER

Model CH0775

SQUARE VINYL DECK

SQUARE VINYL DECK

MODEL CH0775

See Detail 'A'

ASSEMBLY VIEW

Square Deck

1/2" x 2-3/4" Button Head Bolt

1/2" Flatwasher

1/2" Flatwasher

Hanger Clamp

1/2" Locknut

3/8" x 1-1/4"

Tamper Resistant Bolt

3/8" Tee-Nut

Drive Rivet

DETAIL 'A'

Page 1 of 4 Model CH0617

ECN1068

INSTALLATION INSTRUCTIONS

CHALLENGERS

MODEL CH0617

TRIANGULAR PLAYARMOUR ® PERFORATED DECK

Torque Specification:

Bolts & Nuts:

Snug tighten and tighten an additional one-half turn.

Set Screws:

Snug tighten and tighten an additional full turn.

Installation Preparation . . .

Recommended Crew:

Two (2) adults

Installation Time:

1 man-hour

Weight:

38.4 Lbs. (17.4 Kilos)

Use Zone:

72 in. (1829 mm) all sides

User Group:

Ages 2 - 12 years

Maintenance . . .

• Playworld Systems ® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems ® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 3 of 4 Model CH0068

PA-644

INSTALLATION INSTRUCTIONS

CHALLENGERS

MODEL CH0058

STEEL SUPPORT POST

172 in. (4369 mm) with cap

Torque Specification:

Bolts & Nuts:

Snug tighten and tighten an additional one-half turn.

Set Screws:

Snug tighten and tighten an additional full turn.

Maintenance . . .

• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation . . .

Installation Time:

Approx. 1 hour

Weight:

56 Lbs. (25 Kilos)

Concrete Required:

Approx. 3.4 cubic feet

Use Zone:

6 ft. (1829 mm) all sides

Page 1 of 2 PA483

CHALLENGER

Model CH0775

SQUARE VINYL DECK

SQUARE VINYL DECK

MODEL CH0775

See Detail 'A'

ASSEMBLY VIEW

Square Deck

1/2" x 2-3/4" Button Head Bolt

1/2" Flatwasher

1/2" Flatwasher

Hanger Clamp

1/2" Locknut

3/8" x 1-1/4"

Tamper Resistant Bolt

3/8" Tee-Nut

Drive Rivet

DETAIL 'A'

Page 1 of 4 Model CH0617

ECN1068

INSTALLATION INSTRUCTIONS

CHALLENGERS

MODEL CH0617

TRIANGULAR PLAYARMOUR ® PERFORATED DECK

Torque Specification:

Bolts & Nuts:

Snug tighten and tighten an additional one-half turn.

Set Screws:

Snug tighten and tighten an additional full turn.

Installation Preparation . . .

Recommended Crew:

Two (2) adults

Installation Time:

1 man-hour

Weight:

38.4 Lbs. (17.4 Kilos)

Use Zone:

72 in. (1829 mm) all sides

User Group:

Ages 2 - 12 years

Maintenance . . .

• Playworld Systems ® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.

• Playworld Systems ® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.

• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
**TRIANGULAR VINYL DECK**

MODEL CH0795

**CHALLENGER**

**Model CH0795**

**TRIANGULAR VINYL DECK**

**ASSEMBLY VIEW**

**DETAIL A**

**assess**

**Tamper Resistant Bolt**

**Drive Rivet**

**3/8" Tee-Nut**

**3/8" x 1-1/4"**

**Square Deck**

**ASSEMBLY VIEW**

See Detail ‘A’

**1/2" x 2-3/4" Button Head Bolt**

**1/2" Flatwasher**

**1/2" Flatwasher**

**1/2" Locknut**

**FAX: 717 966-3030**

**NEW BERLIN, PA  17855**

**800 233-8404**

**Impact Attenuating**

**WITH RIVETED CAP**

**MODEL CH0920**

**PA436**

**Varies**

**Ground Level**

**Support Post**

**Diameter**

**18”**

**4"**

**Level Sticker**

**Impact Surfacing**

**Factory Applied**

**36"**

**42"**

**Footing Notes:**

A.  Footing depth equals 42” less the depth of the impact attenuating surfacing, the footing depth would be 30”.

B.  All 3-1/2” O.D. Challenger support posts shall have a factory applied sticker with line designating placement of post in surfacing, the footing depth would be 30”.

C.  If play unit installed on uneven terrain, maintain support post mark at impact attenuating surface level at lowest grade.  Adjust other footings accordingly.  Support Posts and all attaching decks and play components must be plumb and level.

D.  Footing size may vary due to local soil and weather conditions.

E.  Base of footing must be below frost line.


**Footing Size:**

**156” (396.2 cm) POST**

**139” (353.1 cm) POST**

**108” (274.3 cm) POST**
HORIZONTAL LOOP LADDER
MODEL CH5790

CHALLENGER

NOTE: Grasping bars should be a maximum of 80" (203.2 cm) above the protective surfacing.

ASSEMBLY VIEW

See Detail 'A'

Impact Attenuating Surfacing
Material Level

DETAIL 'A'

3/8" x 1-1/4" Tamper Resistant Bolt
3/8" x 1/2" Drive Rivet
Pipe Clamp
Support Rod
3/8" Tee-Nut
3/8" x 4" Hex Head Bolt
3/8" x 1/2" Set Screws
Support Rod
Top Rail Assembly
3/8" Locknut
Connecting Cap

DETAIL 'B'

3/8" x 4" Hex Head Bolt
3/8" x 1/2" Set Screws
Support Rod

Installation Instructions

PARALLEL BARS

Recommended Crew: One (1) adult
Installation Time: 2 hours
Weight: 103 Lbs. (46.8 Kilos)
Concrete Required: .12 cubic yard
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 5 and up

Maintenance

• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation

Installation Time: Approx. 3/4 hour
Weight: 42 Lbs. (19 Kilos)
User Group: Ages 2 - 12 years
INSTALLATION INSTRUCTIONS

CHALLENGERS®

MODEL CH6890

10 ft. (3048 mm) CATWALK

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Installation Preparation . . .
Recommended Crew: Four (4) adults
Installation Time: 5 man-hours
Weight: 471.2 Lbs. (212 Kilos)
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 2 - 12 years

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Assembly View

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Weight: 263.1 Lbs. (119.6 Kilos)
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 2 - 12 years
CATWALK OVERPASS KIT
MODEL CH7030

ASSEMBLY VIEW

Installation Preparation

• Surface should be level and free of holes or uneven areas.
• Conduct necessary utility location before installation.
• Install surface before the equipment is installed.

Installation Time:
Approx. 2 hours

Weight:
187 Lbs. (84.1 Kilos)

Concrete Required:
Approx. 9 cubic feet

Use Zone:
6 ft. (1829 mm) all sides

User Group:
Ages 5 - 12

Torque Specification:

Bolts & Nuts:
Snug tighten and
tighten an additional one-half turn.

Set Screws:
Snug tighten and
tighten an additional full turn.

Maintenance:

• Playworld Systems strongly recommends the use of protective surfacing within the
use zone of each play structure in accordance with ASTM specification F1292
appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play.
The owners of playground equipment and the parents or guardians of children are
responsible for this proper supervision.  Do not use playground equipment when it is
wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of
the equipment and surrounding play area.  A comprehensive maintenance and
inspection schedule must be developed and all equipment inspected frequently.
**CHALLENGER**

**Model CH7500**

- **FAX:** 717 966-3030
- **NEW BERLIN, PA  17855       800 233-8404**

**LADDER CLIMBER**

**48" (121.9 cm) DECK**

**MODEL CH7500**

- **TORQUE SPECIFICATION:**
  - **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
  - **Set Screws:** Snug tighten and tighten an additional full turn.

**MAINTENANCE . . .**

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**INSTALLATION INSTRUCTIONS**

- **ASSEMBLY VIEW**

**Pipe Clamp**

**Tie Rod**

**3/8” T ee-Nut**

**Drive Rivet**

**3/8” x 1-1/4” Tamper Resistant Bolt**

**3/8” x 1/2” Set Screw**

- **See Detail 'A'**
- **See Detail 'B'**

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**CHALLENGER**

**Model CH7550**

- **FAX:** 717 966-3030
- **NEW BERLIN, PA  17855       800 233-8404**

**LADDER CLIMBER**

**1 CLIMBING RUNGS**

**24" (61 cm) DECK**

**MODEL CH7550**

- **ASSEMBLY VIEW**

**Pipe Clamp**

**Tie Rod**

**3/8” T ee-Nut**

**Drive Rivet**

**3/8” x 1-1/4” Tamper Resistant Bolt**

**3/8” x 1/2” Set Screw**

- **See Detail 'B'**
- **See Detail 'A'**

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**CHALLENGER**

**Model CH7510**

- **FAX:** 717 966-3030
- **NEW BERLIN, PA  17855       800 233-8404**

**LADDER CLIMBER**

**LADDER CLIMBER**

**60" (152.4 cm) DECK**

**MODEL CH7510**

- **ASSEMBLY VIEW**

**Pipe Clamp**

**Tie Rod**

**3/8” T ee-Nut**

**Drive Rivet**

**3/8” x 1-1/4” Tamper Resistant Bolt**

**3/8” x 1/2” Set Screw**

- **See Detail 'B'**
- **See Detail 'A'**

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**CONNECTION INSTRUCTIONS**

**UNIVERSAL MODEL UN6500 DURA BALANCE BEAM**

**Torque Specification:**
- **Bolts & Nuts:** Snug tighten and tighten an additional one-half turn.
- **Set Screws:** Snug tighten and tighten an additional full turn.

**Assembly View**

**Maintenance . . .**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**Installation Preparation . . .**
- **Recommended Crew:** Two (2) adults
- **Installation Time:** 1 man-hour
- **Weight:** 58.5 Lbs. (26.3 Kilos)
- **Concrete Required:** 0.11 cubic yard
- **Use Zone:** 6 ft. (1829 mm) all sides
- **User Group:** Ages 2 - 12
**INSTALLATION INSTRUCTIONS**

**UNIVERSAL MODEL UN9910**

**SURFACING WARNING LABEL**

**Installation Preparation**

- **Recommended Crew:** One (1) adult
- **Installation Time:** 0.5 hour

**Maintenance**

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**ACCESSIBLE SWING SEAT**

**MODEL XX0244**

**Installation Preparation**

- **Recommended Crew:** One (1) adult
- **Installation Time:** 2 hours
- **Concrete Required:** 2.6 cubic yards
- **Use Zone:** 26 ft. (6706 mm) Total Front and Back
- **User Group:** Ages 3 and up

**Maintenance**

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**2-UNIT HEAVY DUTY SWING**

**MODEL XX0270**

**Installation Preparation**

- **Recommended Crew:** Three (3) adults
- **Installation Time:** 3.5 man-hours
- **Weight:** 333.4 lbs. (151.5 Kilos)
- **Concrete Required:** 0.78 cubic yard
- **Use Zone:** See page 1 for Swing Use Zone information.
- **Ages:** 2-12

**Maintenance**

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
**INSTALLATION INSTRUCTIONS**

**PLAYWORLD SYSTEMS**

**MODEL XX0278**

**8 ft. (2438 mm) Top Rail Height**

**Installation Preparation**
- **Installation Crew**: One (1) adult
- **Installation Time**: 0.25 hour
- **Weight**: 8.7 lbs. (4.0 Kilos)
- **Use Zone**: 384 in. (9754 mm) Total Front and Back
- **User Group**: Ages 5 and up

**Torque Specification**
- **Bolts & Nuts**: Snug tighten and tighten an additional full turn.
- **Set Screws**: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**MODEL XX0400**

**SUPER DOME**

**Installation Preparation**
- **Installation Crew**: Four (4) adults
- **Installation Time**: 10 man-hours
- **Weight**: 400 Lbs. (180 Kilos)
- **Concrete Required**: 0.15 cubic yard
- **Use Zone**: 6 ft. (1829 mm) all sides
- **User Group**: Ages 5 - 12 years

**Torque Specification**
- **Bolts & Nuts**: Snug tighten and tighten an additional one-half turn.
- **Set Screws**: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**MODEL XX0605**

**4-SEAT SEE-SAW WITH FIXED FULCRUM**

**Installation Preparation**
- **Recommended Crew**: Two (2) adults
- **Installation Time**: 4 man-hours
- **Weight**: 323.6 Lbs. (145.6 Kilos)
- **Concrete Required**: 0.06 cubic yards (0.05 cubic meters)
- **Use Zone**: 72 in. (1829 mm) all sides
- **User Group**: Ages 5 - 12 years

**Torque Specification**
- **Bolts & Nuts**: Snug tighten and tighten an additional one-half turn.
- **Set Screws**: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**MODEL XX1013**

**TRI-LEVEL BARS**

**Installation Preparation**
- **Recommended Crew**: Two (2) adults
- **Installation Time**: 2.5 man-hours
- **Weight**: 104.1 Lbs. (47.3 Kilos)
- **Concrete Required**: 0.12 cubic yards
- **Use Zone**: 72 in. (1829 mm) all sides
- **User Group**: Ages 5 - 12 years

**Torque Specification**
- **Bolts & Nuts**: Snug tighten and tighten an additional one-half turn.
- **Set Screws**: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

**MODEL XX1013**

**TR-LEVEL BAR**
**Model XX1020**

**CURVED BALANCE BEAM**

*Assembly View*

**Installation Preparation**
- Recommended Crew: Two (2) adults
- Installation Time: 30 min.
- Weight: 62 Lbs. (27.9 Kilos)
- Concrete Required: 0.11 cubic yard
- Use Zone: 6 ft. (1829 mm) all sides
- User Group: Ages 2 - 12 years

**Torque Specification**
- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Model XX1015**

**LARGE HORIZONTAL LADDER**

*Assembly View*

**Installation Preparation**
- Recommended Crew: Two (2) adults
- Installation Time: 2.5 man-hours
- Weight: 230 Lbs. (104 Kilos)
- Concrete Required: 0.12 cubic yard
- Use Zone: 72 in. (1829 mm) all sides
- User Group: Ages 5 - 12 years

**Torque Specification**
- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Model XX1051**

**TRIPLE SHOOTOUT**

*Assembly View*

**Installation Preparation**
- Recommended Crew: Two (2) adults
- Installation Time: 2 man-hours
- Weight: 359.2 Lbs. (163.3 Kilos)
- Concrete Required: 0.34 cubic yard
- Use Zone: 72 in. (1829 mm) all sides
- User Group: Ages 2 - 12 years

**Torque Specification**
- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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**Model XX1079**

**TETHERBALL POST AND BALL**

*Assembly View*

**Installation Preparation**
- Recommended Crew: Two (2) adults
- Installation Time: 1 man-hour
- Weight: 34.3 Lbs. (15.6 Kilos)
- Concrete Required: 0.14 cubic yard
- Use Zone: 48 in. (1219 mm) all sides
- User Group: Ages 2 - 12 years

**Torque Specification**
- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

**Maintenance**
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.
Installation Instructions

Playworld Systems® Models XX1425 and XX1425S
6 ft. (1829 mm) Permanent Bench w/ Lettered Back
(Coated Planks & Frame)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (in-ground): 1.5 man-hours
Installation Time (surface mount): 0.5 man-hours
Concrete Required: 0.16 cubic yard (0.12 cubic meters)

Assembly View

Torque Specification:

- Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
- Set Screws: Snug tighten and tighten an additional full turn.

Maintenance

- As the owner of equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Assembly View (representative model)