

APPENDIX A

PLAYGROUND EQUIPMENT



The play components identified on this plan are IPEMA certified. (Unless model number is preceded with *) The use and layout of these components conform to the requirements of ASTM F1487. To verify product certification, visit www.ipema.org

THIS PLAY AREA & PLAY EQUIPMENT IS DESIGNED FOR AGES 2-5 YEARS UNLESS OTHERWISE NOTED ON PLAN.

IT IS THE MANUFACTURER'S OPINION THAT THIS PLAY AREA DOES CONFORM TO THE A.D.A. ACCESSIBILITY STANDARDS, ASSUMING AN ACCESSIBLE PROTECTIVE SURFACING IS PROVIDED, AS INDICATED, OR WITHIN THE ENTIRE USE ZONE.

THIS CONCEPTUAL PLAN WAS BASED ON INFORMATION AVAILABLE TO US, PRIOR TO CONSTRUCTION. DETAILED SITE INFORMATION INCLUDING SITE DIMENSIONS, TOPOGRAPHY, EXISTING UTILITIES, SOIL CONDITIONS, AND DRAINAGE SOLUTIONS SHOULD BE OBTAINED, EVALUATED, & UTILIZED IN THE FINAL DESIGN. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION, AND LOCATION OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

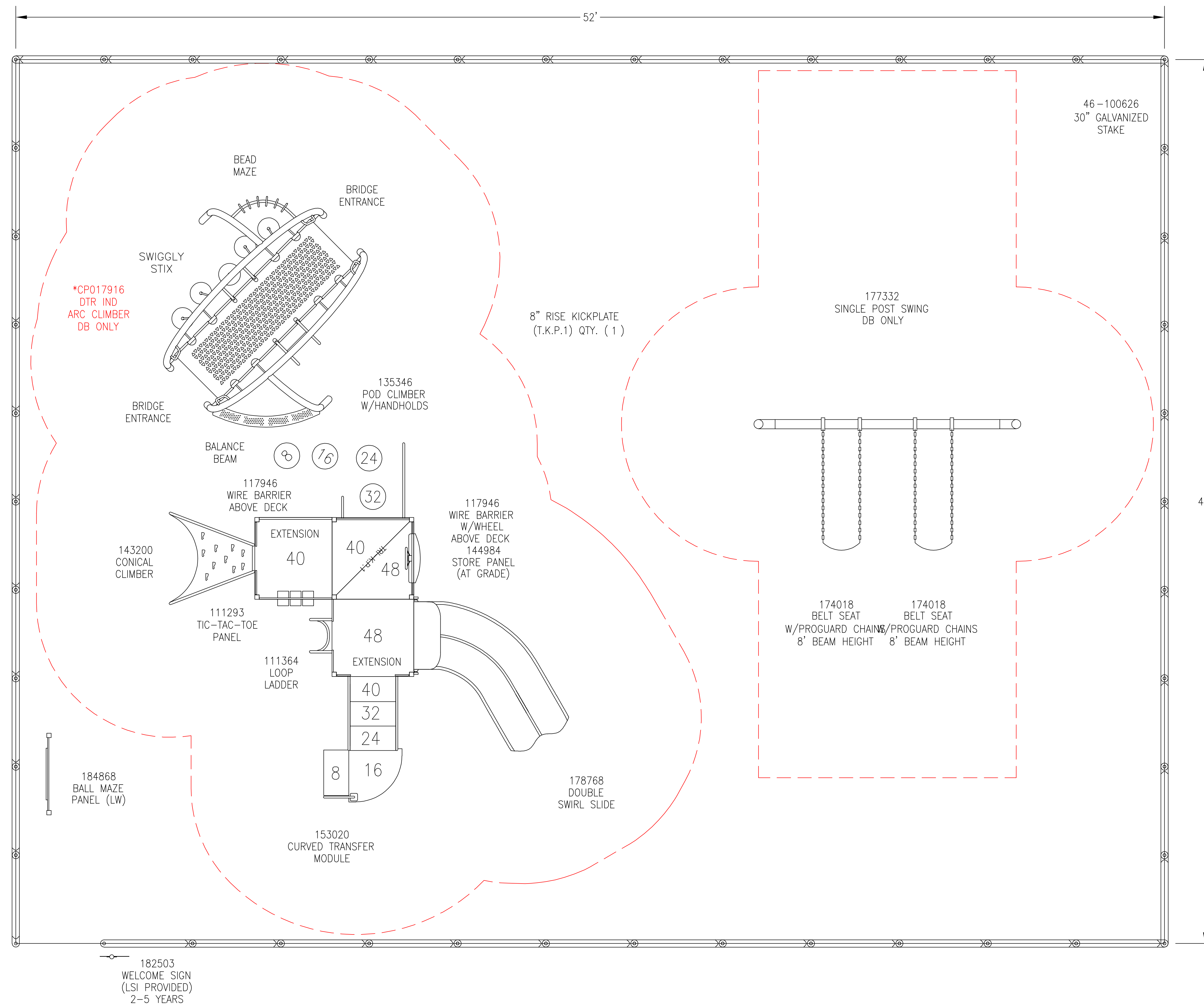
CHOOSE A PROTECTIVE SURFACING MATERIAL THAT HAS A CRITICAL HEIGHT VALUE TO MEET THE MAXIMUM FALL HEIGHT FOR THE EQUIPMENT (REF. ASTM F1487 STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE, SECTION 8 CURRENT REVISION). THE SUBSURFACE MUST BE WELL DRAINED. IF THE SOIL DOES NOT DRAIN NATURALLY IT MUST BE TILED OR SLOPED 1/8" TO 1/4" PER FOOT TO A STORM SEWER OR A "FRENCH DRAIN".

IT IS THE MANUFACTURER'S OPINION AND INTENT THAT THE LAYOUT OF THESE COMPONENTS CONFORM WITH THE U.S. CONSUMER PRODUCT SAFETY COMMISSION'S (CPSC) "HANDBOOK FOR PUBLIC PLAYGROUND SAFETY".

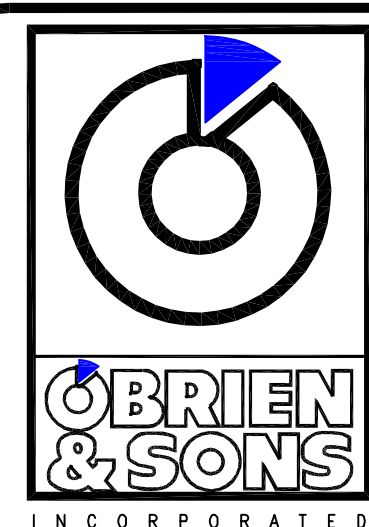
DESIGNED BY:

JRA
 COPYRIGHT: 3.01.2023
 LANDSCAPE STRUCTURES, INC.
 601 7th STREET SOUTH - P.O. BOX 198
 DELANO, MINNESOTA 55328
 PH: 1-800-328-0035 FAX: 1-763-972-6091

Date	Previous Drawing #	Initials



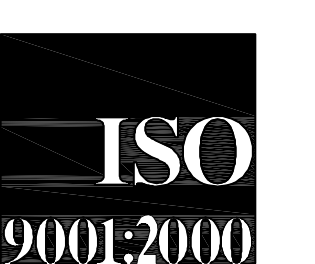
TOTAL ELEVATED PLAY COMPONENTS	6		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	6	REQUIRED	3
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	7	REQUIRED	2
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	4	REQUIRED	4

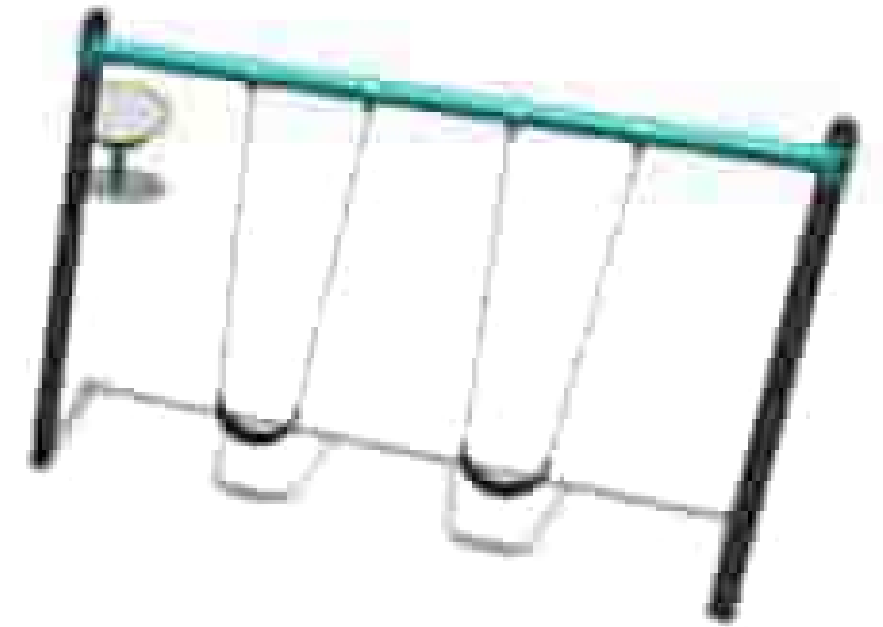
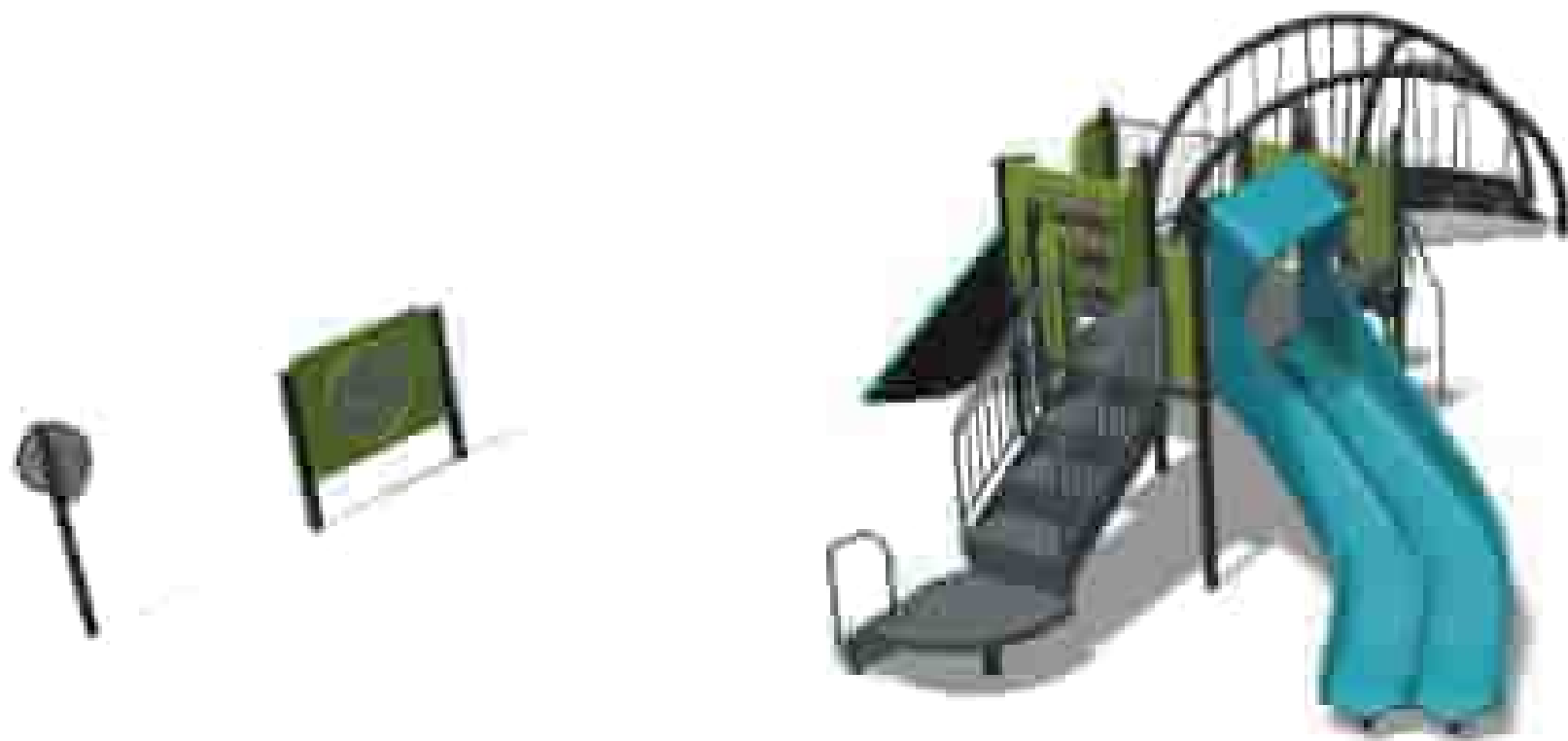


PROVIDENCE AVENUE PARKING LOT
 PROVIDENCE, RI

M.E. O'BRIEN & SONS, INC.
 MEGHAN O'BRIEN

SYSTEM TYPE:
 PLAYSHAPER/IND
 DRAWING #:
 ME023211







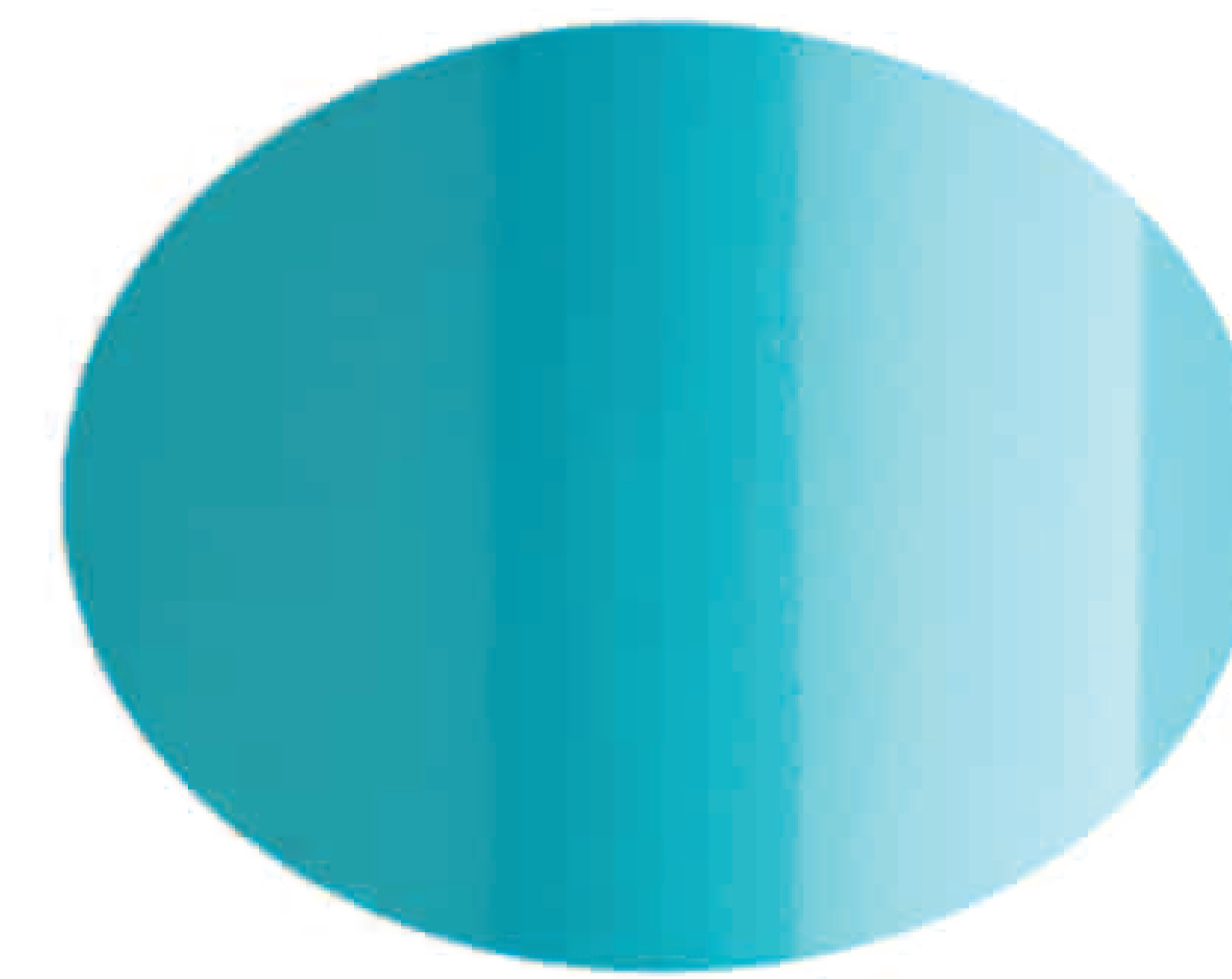
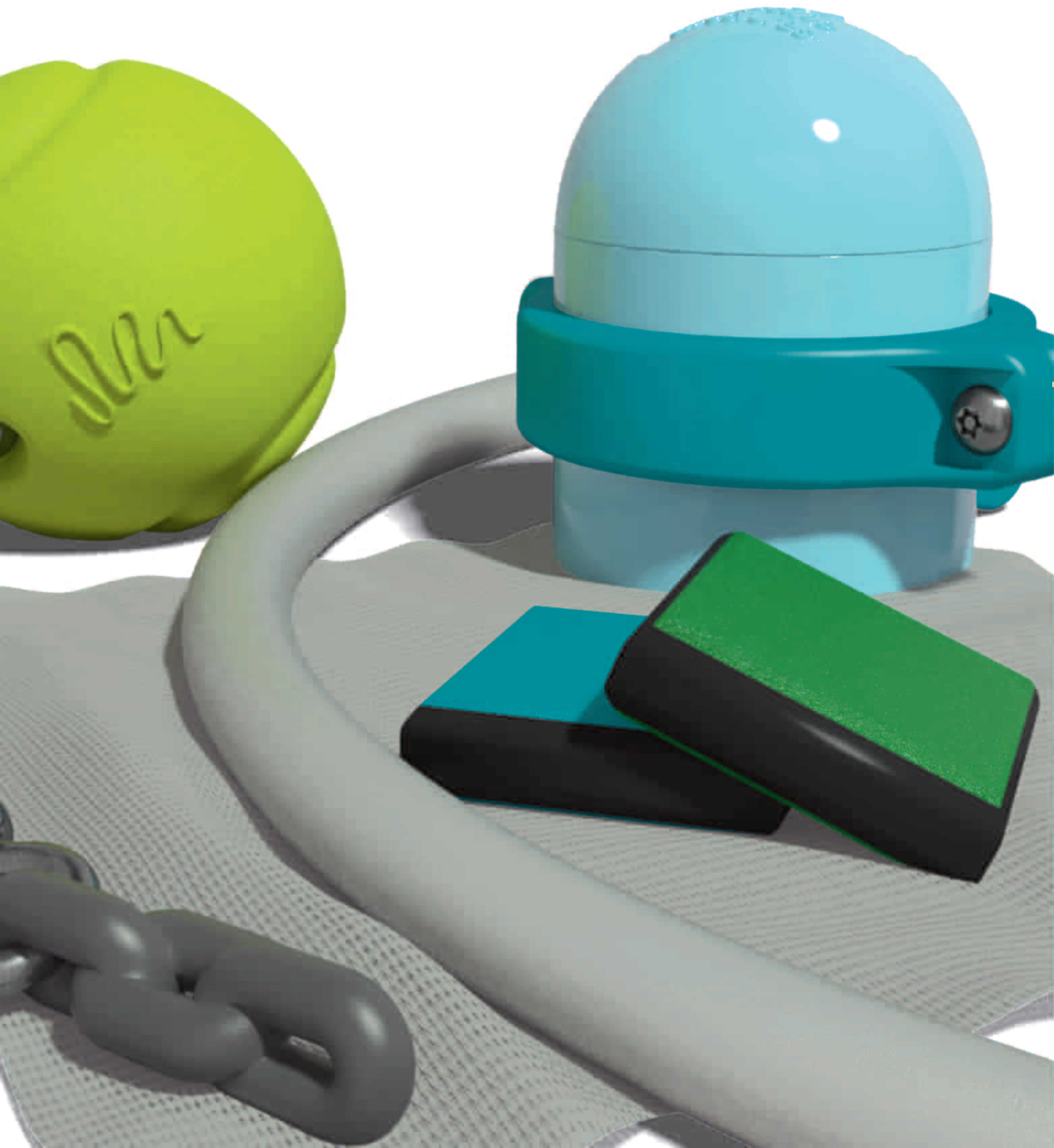
PROVIDENCE AVENUE PARKING LOT

MED23180 + 2.17.2023

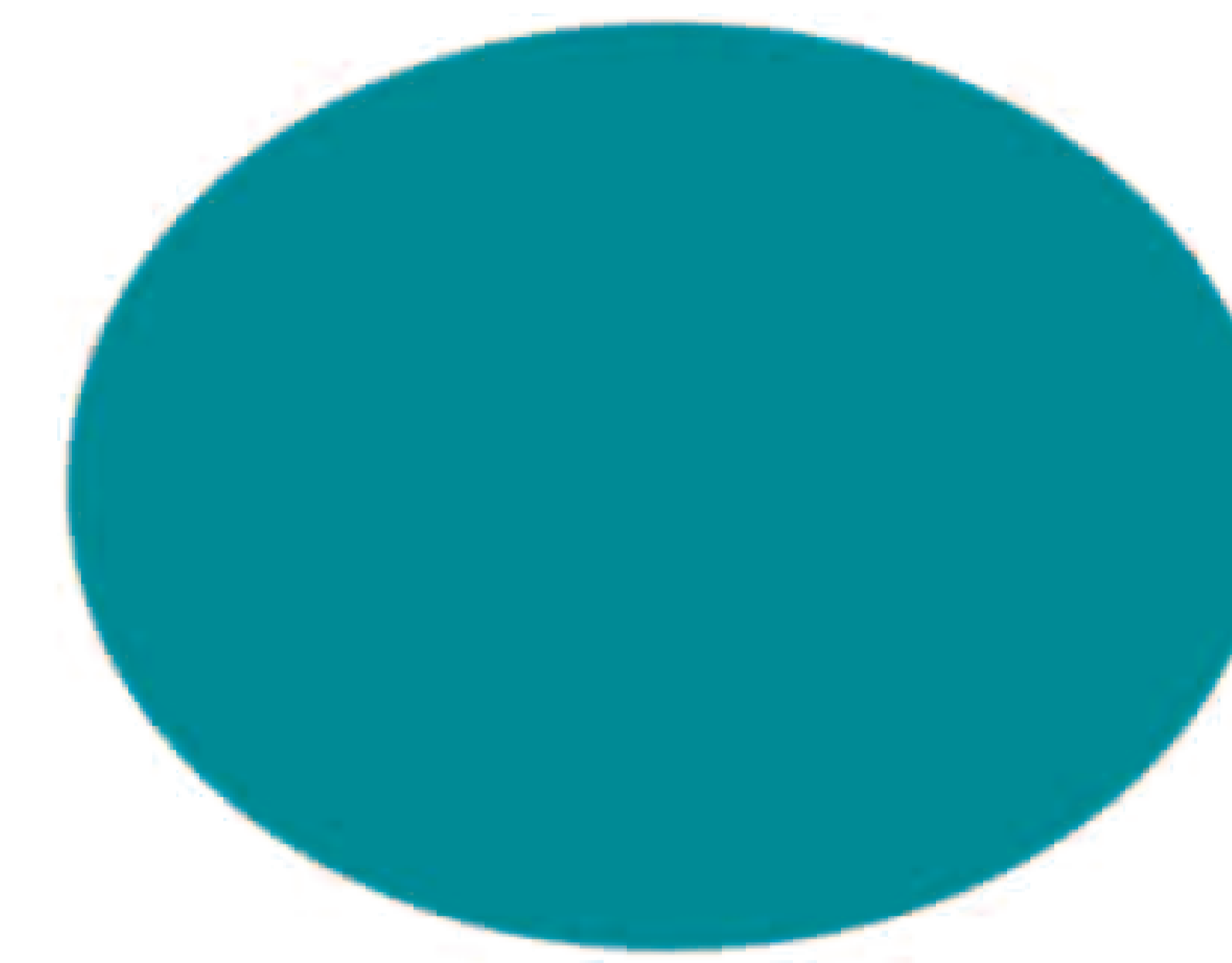


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Palette **BN**



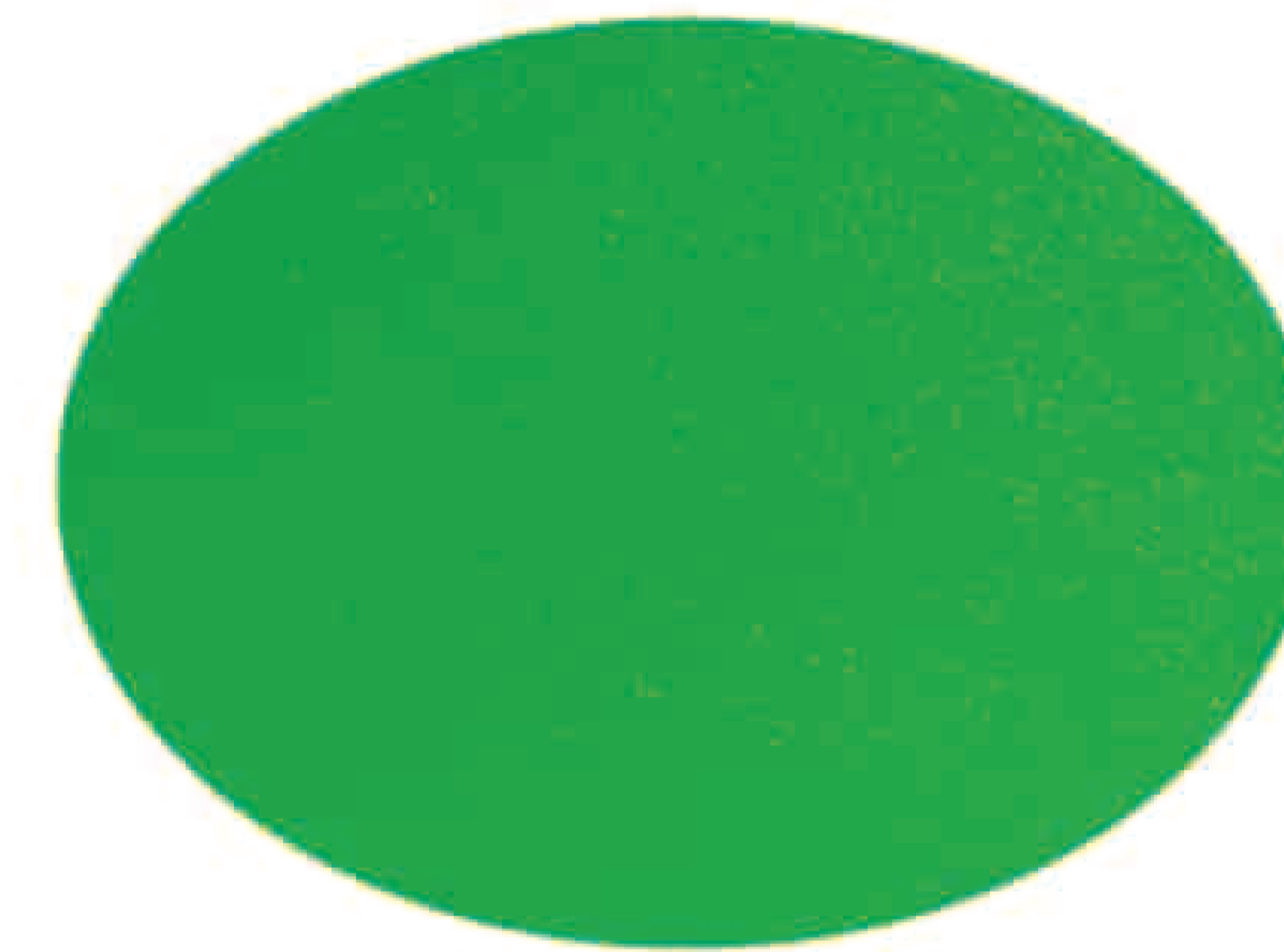
ProShield[®]
Post
Sky



ProShield[®]
Clamp
Lagoon



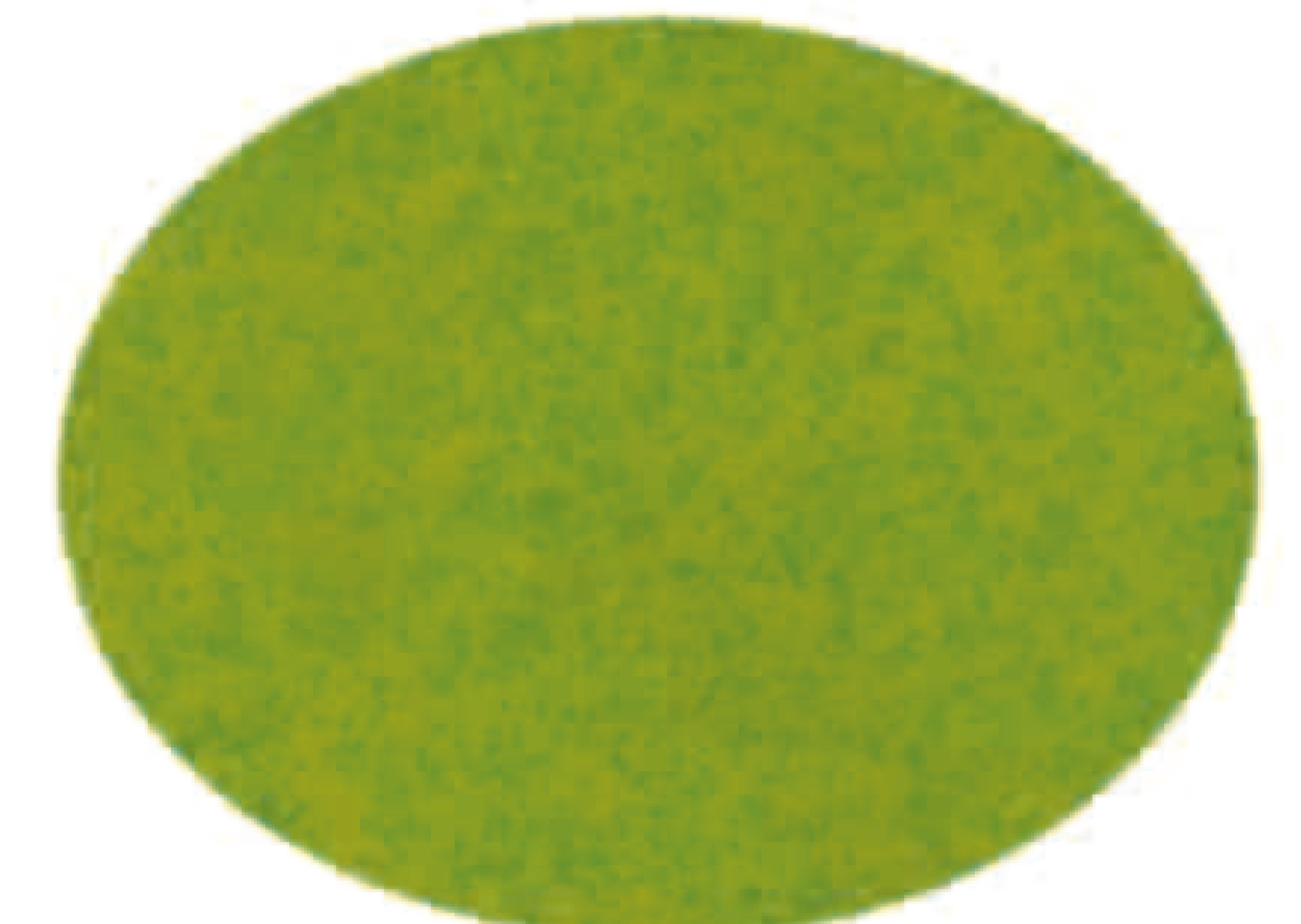
ProShield[®]
Component
Metallic Silver



Permalene[®]
Primary
Grass



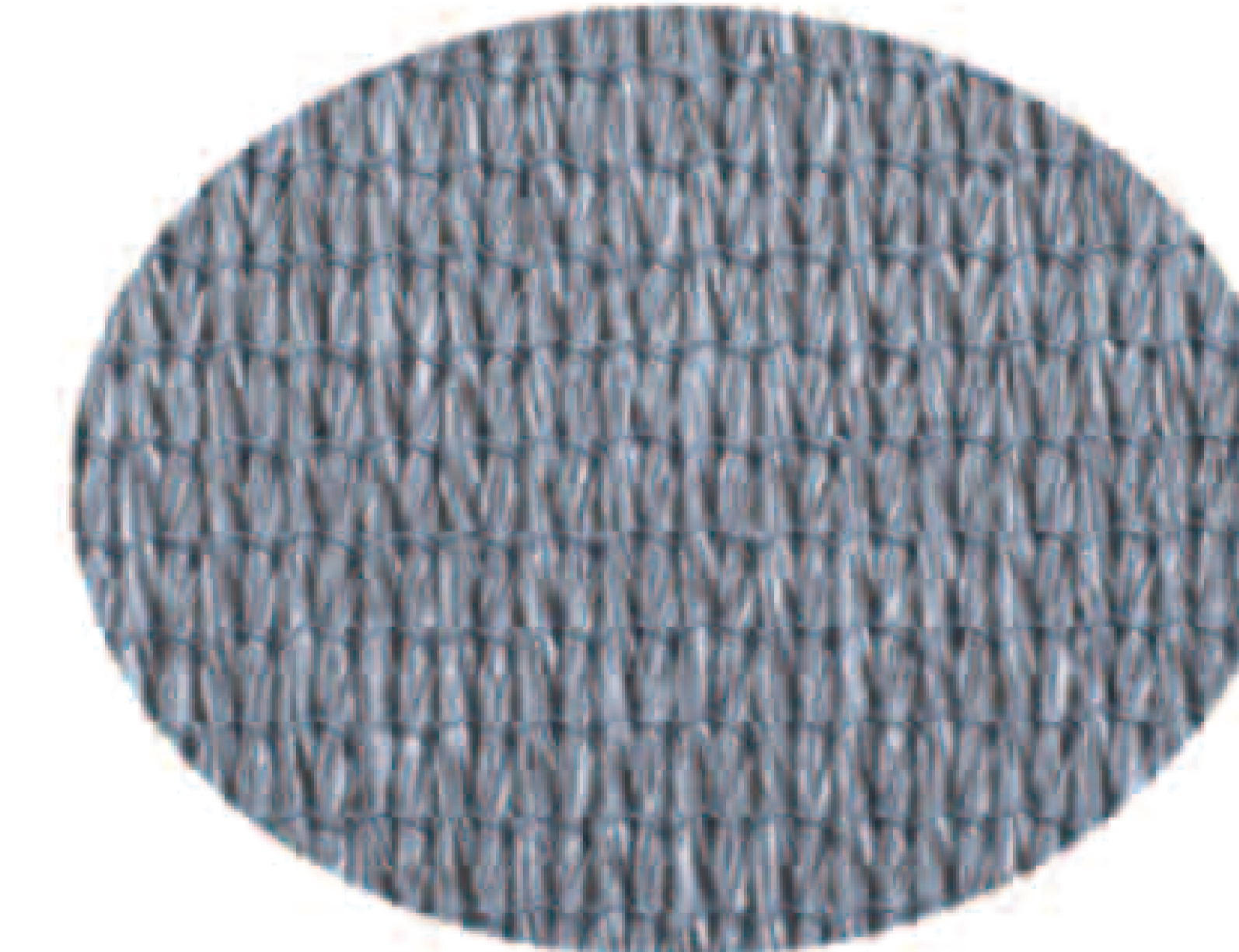
Permalene[®]
Secondary
Lagoon



Polyethylene[®]
Primary
Limon



TenderTuff™
Gray



Shade Fabric[®]
Primary
Metallic Silver

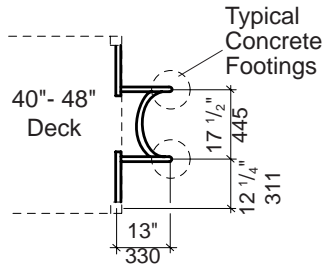
MEO23211 PlayShaper® (2-5 years).QSD



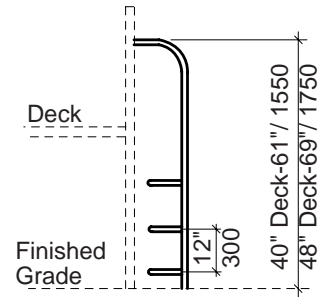
SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

14548500

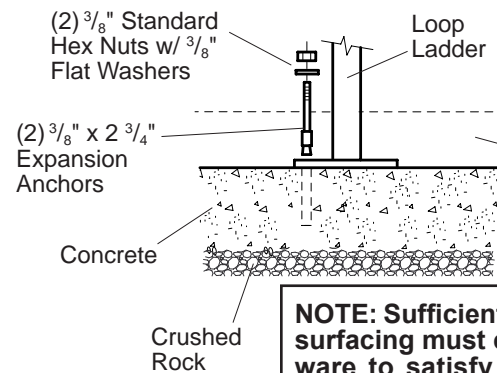
**PLAN VIEW/
FOOTING LAYOUT**



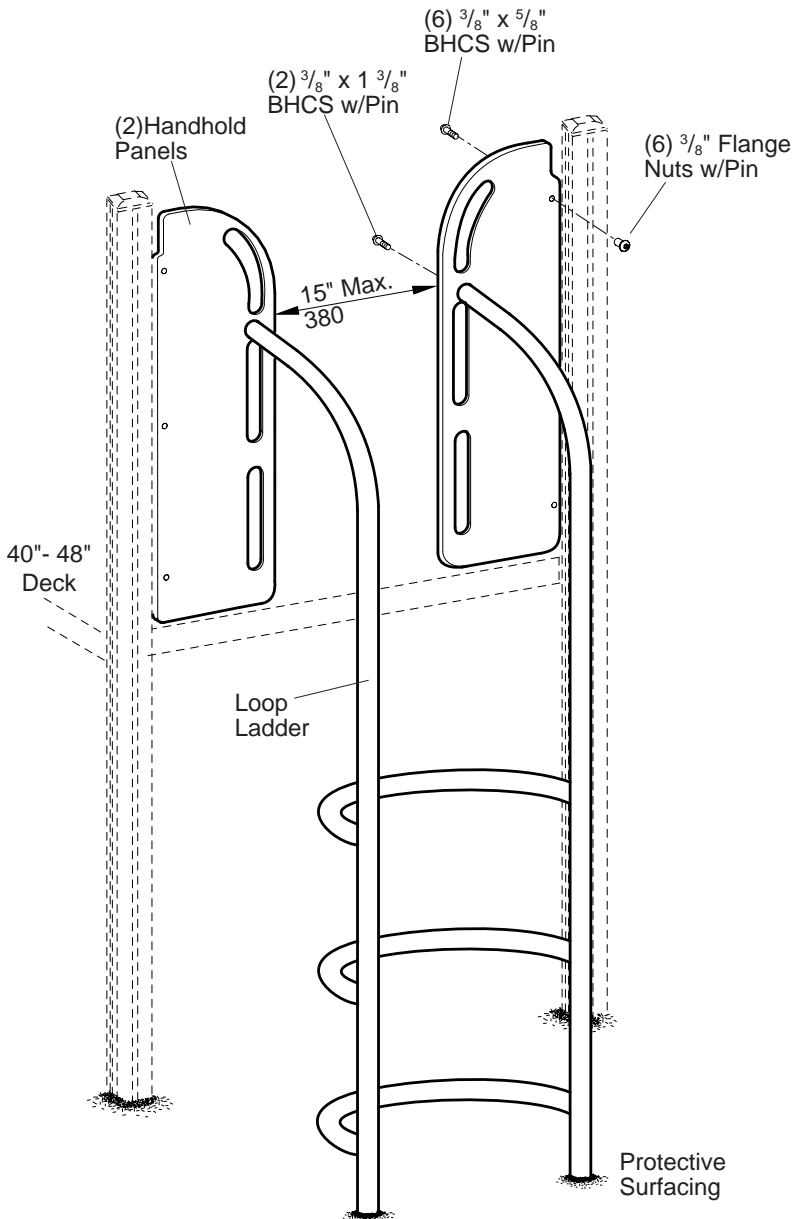
ELEVATION



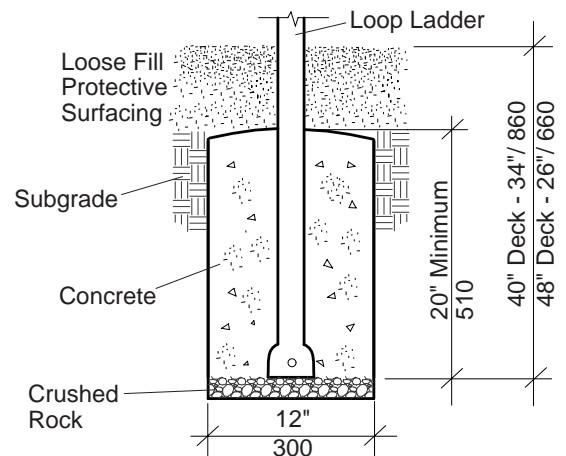
**DETAIL
SURFACE MOUNT**



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.



**DETAIL
DIRECT BURY**



Parts List

Part#	Description	Qty.
113558	Loop Ladder (40" & 48"), DB, Specify Color	1
112913	Loop Ladder 40", SM, Specify Color.....	1
113567	Loop Ladder 48", SM, Specify Color.....	1
145466	Handhold Panel, Specify Color	2
121264	Loop Ladder, Hardware Package	1
113027	3/8" x 1 3/8" BHCS w/Pin, SST	2
100195	3/8" x 5/8" BHCS w/Pin, SST	6
100353	3/8" Flange Nut w/Pin, SST	6
121256	2-Hole (SM) Hardware Package	1
100263	3/8" x 2 3/4" Expansion Anchor	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST	2

DB = Direct Bury
SM = Surface Mount

Specifications

Loop Ladder: Weldment comprised of 1.125" O.D. 11 GA (.120") black steel tubing. Finish: TenderTuff®, color specified.

Handhold Panel: Solid color Permalene®, color specified.

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

Installation Time: Approx. 1 man hour

Concrete Req: 26" - Approx. 2.6 cu. ft.

34" - Approx. 3 cu. ft.

Weight: (40" & 48") **DB** - 59 lbs.

40" **SM** - 52 lbs.

48" **SM** - 56 lbs.

Fall Height: 40" (1,02 m)

48" (1,22 m)

Installation Instructions

Direct Bury

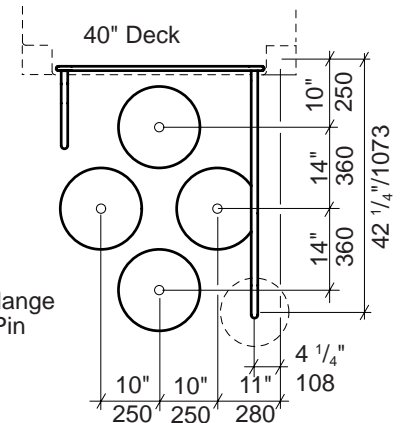
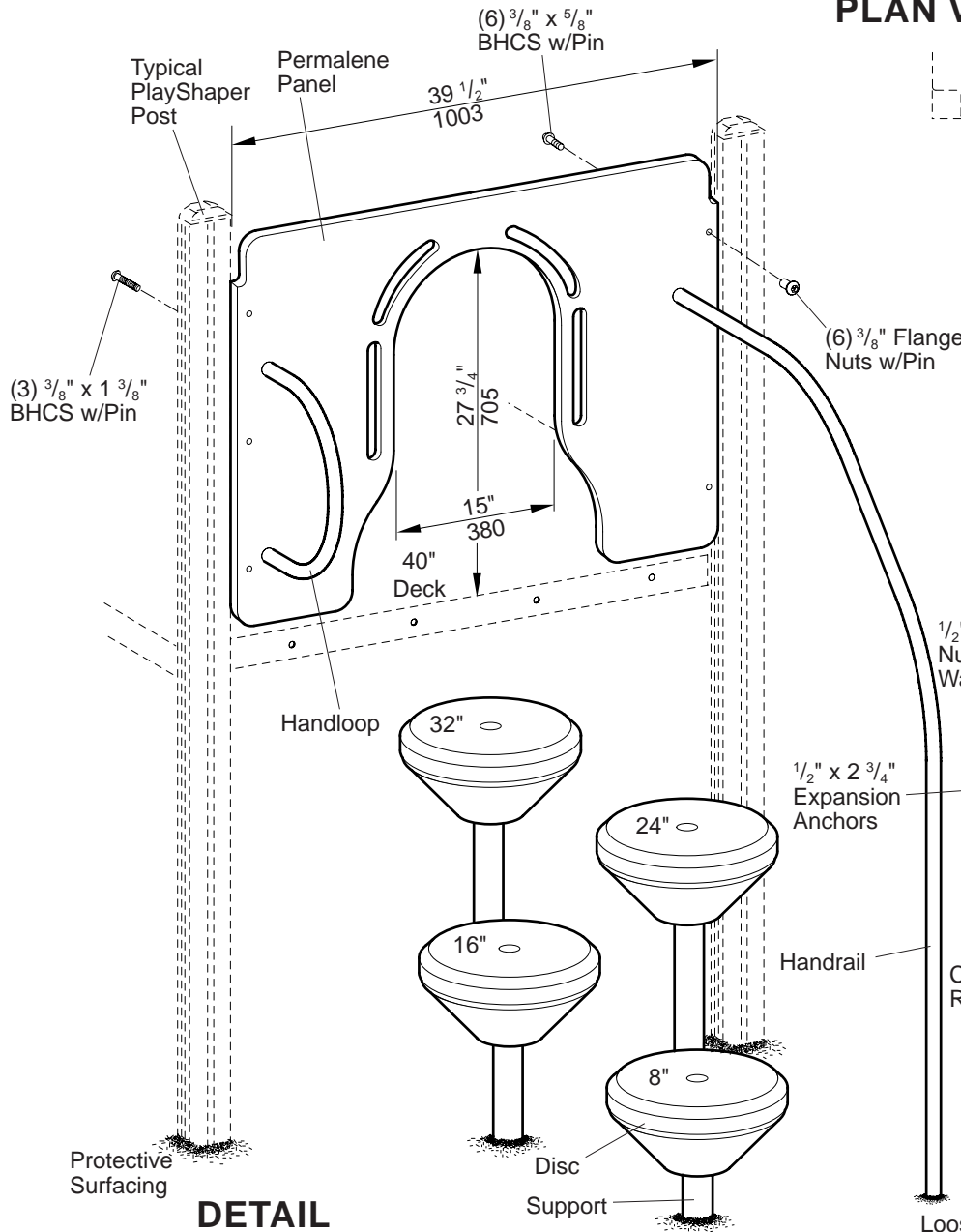
- 1) Dig footings spaced as shown.
- 2) Attach handhold panels to post flanges using 3/8" x 5/8" BHCS w/pin with 3/8" flange nuts w/pin.
- 3) Using a 7/16" drill bit, drill out the two 1/8" pilot holes in each handhold panel for attachment of loop ladder.
- 4) Position loop ladder in footing holes and line up holes in loop ladder with drilled holes in handhold panels. Attach to handhold panels using 3/8" x 1 3/8" BHCS w/pin.
- 5) With ladder side rails plumb, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
- 6) Install protective surfacing before users are allowed to play on the structure.

Surface Mount

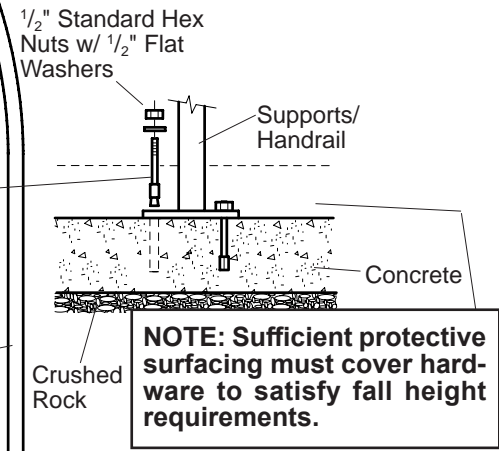
- 1) Attach handhold panels to post flanges using 3/8" x 5/8" BHCS w/pin with 3/8" flange nuts w/pin.
- 2) Using a 7/16" drill bit, drill out the two 1/8" pilot holes in each handhold panel for attachment of loop ladder.
- 3) Position loop ladder in footing holes and line up holes in loop ladder with drilled holes in handhold panels. Attach to handhold panels using 3/8" x 1 3/8" BHCS w/pin.
- 4) With ladder side rails plumb, drill through holes in footer plate 3" deep into concrete slab using 3/8" masonry bit.
- 5) Tap 3/8" x 2 3/4" expansion anchors through footer plate holes and into concrete. Secure with 3/8" SAE flat washers and 3/8" standard hex nuts screwed down tight.
- 6) Install protective surfacing before users are allowed to play on the structure.



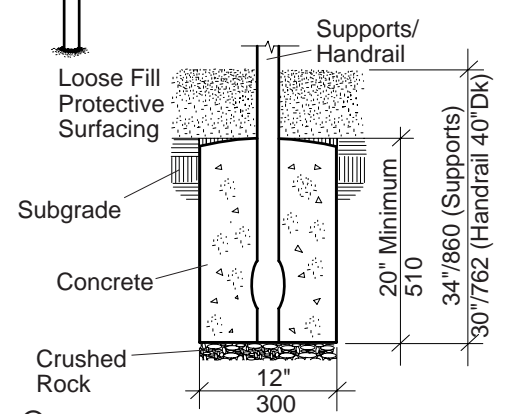
PLAN VIEW/FOOTING LAYOUT



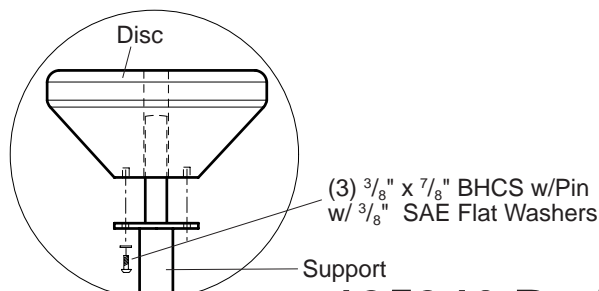
DETAIL SURFACE MOUNT



DETAIL DIRECT BURY



DETAIL DISC ATTACHMENT



PlayShaper® 135346 Pod Climber®, 40"

Parts List

Part#	Description	Qty.
126956	Disc, Specify Color	4
145467	Permalene Panel, Specify Color.....	1
135553	Handloop, Specify Color.....	1
135075	Handrail (DB), (40" Deck), Specify Color.....	1
135076	Handrail (SM), (40" Deck, Specify Color.....	1
120603	Support 8" (SM), Specify Color.....	1
120599	Support 8" (DB), Specify Color.....	1
120604	Support 16" (SM), Specify Color.....	1
120600	Support 16" (DB), Specify Color.....	1
120605	Support 24" (SM), Specify Color.....	1
120601	Support 24" (DB), Specify Color.....	1
120606	Support 32" (SM), Specify Color.....	1
120602	Support 32" (DB), Specify Color.....	1
106480	Panel Hardware Package	1
100195	3/8" x 5/8" BHCS w/Pin, SST.....	6
100353	3/8" Flange Nut w/Pin, SST.....	6
184986	Disc Climber Hardware Package	4
100196	3/8" x 7/8" BHCS w/Pin, SST.....	12
100365	3/8" SAE Flat Washer, SST.....	12
135605	Handloop Hardware Package	1
113027	3/8" x 1 3/8" BHCS w/Pin, SST.....	3
111392	2-Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor.....	2
100322	1/2" Standard Hex Nut, SST.....	2
100363	1/2" Flat Washer, SST.....	2
121348	4 Hole (SM) Hardware Package	4
100266	1/2" x 2 3/4" Expansion Anchor.....	16
100322	1/2" Standard Hex Nut, SST.....	16
100363	1/2" Flat Washer, SST.....	16

DB = Direct Bury
SM=Surface Mount

Specifications

- Disc:** Rotationally molded from U.V. stabilized linear low density polyethylene, disc measures 14" in diameter x 7" high, color specified.
- Panel:** Solid color Permalene®, color specified.
- Handloop:** Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with 3/8" internal thread. Finish: TenderTuff™, color specified.
- Handrail:** Weldment comprised of 1.125" O.D. 11 GA (.120") steel tubing with 203 or 303 stainless steel inserts, with 3/8" internal thread. Finish: TenderTuff, color specified.
- Support:** Weldment comprised of 1.900" O.D. RS-20 (.090" - .100"), 1.315" O.D. RS-20 (.080" - .090") and 3/16" x 5" diameter plate. Finish: Proshield®, color specified.
- Fasteners:** Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

- Installation Time:** SM - Approx. 2 1/2 man hour
DB - Approx. 3 3/4 man hour
- Concrete Req.:** 40" Deck Approx. 7.5 cu. ft.
- Weight:** 40" Deck - 94 lbs. (DB) 74 lbs. (SM)
- Fall Height:** 40" (1,02 m) Deck Height

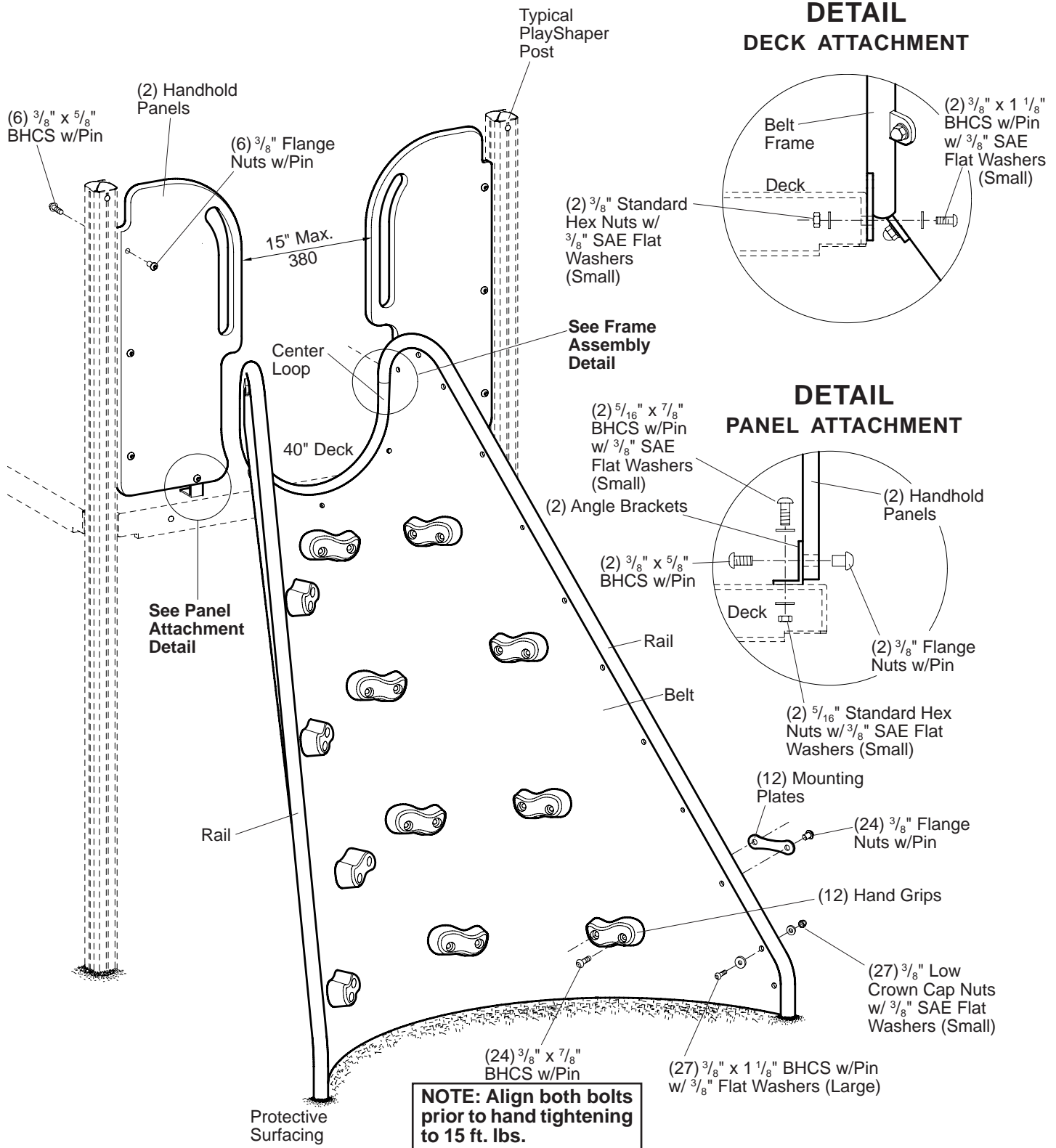
Installation Instructions

- (Direct Bury)** Dig footings spaced as shown. See your Plan View/Footing Layout.
 - Attach discs to supports using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers, as shown.
 - (Direct Bury)** Position supports in footing holes and pour concrete footings. With support posts plumb, prop supports to hold in position. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
- (Surface Mount)** Mark anchor bolt locations on concrete slab through holes in anchor plates. Remove supports with disc. Drill 1/2" x 3" deep holes on marks into concrete using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Fasten anchor plates to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.
- Attach panel to post flanges using 3/8" x 5/8" BHCS w/pin and 3/8" flange nuts w/pin. Using a 7/16" drill bit, drill out 1/8" pilot holes in each handhold panel to attach handloop & handrail.
 - Position handrail and attach to panel using 3/8" x 1 3/8" BHCS w/pin.
 - Attach handloop to panel using 3/8" x 1 3/8" BHCS w/pin.
 - Install protective surfacing before users are allowed to play on the structure.



SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

16007800



PlayShaper® **143200 Conical Climber™, 40" Deck**

Sheet 1 of 2



PlayShaper® 143200 Conical Climber™, 40" Deck

Parts List

Part#	Description	Qty.
236063	Belt	1
160052	Rail, Specify Color	2
151244	Center Loop, Specify Color.....	1
143087	Footer, DB,	2
143166	Footer, SM, Specify Color.....	2
143605	Handhold Panel, Specify Color	2
142878	Mounting Plate, Black.....	12
143492	Hand Grip Set	1
143110	Hand Grip, Blue	3
143110	Hand Grip, Yellow.....	3
143110	Hand Grip, Red.....	3
143110	Hand Grip, Green	3
151646	Conical Climber Hardware Package	1
100195	3/8" x 5/8" BHCS w/Pin, SST	8
100196	3/8" x 7/8" BHCS w/Pin, SST	24
100198	3/8" x 1 1/8" BHCS w/Pin, SST	31
100326	5/16" Standard Hex Nut, SST	2
100327	3/8" Standard Hex Nut, SST	2
100349	3/8" Low Crown Cap Nut, SST	27
100353	3/8" Flange Nut w/Pin, SST	34
100362	3/8" Flat Washer, SST	27
100365	3/8" SAE Flat Washer, SST.....	33
106187	Angle Bracket, SST	2
132626	5/16" x 7/8" BHCS w/Pin, SST	2
100609	1/4" x 3/16" Drive Rivet, AL/AL.....	2
121348	4-Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	4
100322	1/2" Standard Hex Nut, SST	4
100363	1/2" Flat Washer, SST	4

DB = Direct Bury
SM = Surface Mount

Specifications

Center Loop:	Weldment comprised of 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing, 1/4" x 1 1/4" HR flat steel and 1/4" x 2 3/4" HR flat steel. Finish: ProShield®, color specified.
Rails:	Weldment comprised of 1.315" O.D. RS-20 (.080" - .090") galvanized steel tubing, and 1/4" x 1 1/4" HR flat steel. Finish: ProShield, color specified.
Footer:	Fabricated from 1.125" O.D. 11 GA. (.120") galvanized steel tubing. Finish: ProShield, color specified.
Mounting Plate:	Fabricated from 1/8" HR flat steel. Finish: ProShield, black.
Hand Grip:	Made from Polyester Resin. Hand Grips measure approx. 5 3/4" long x 2 1/4" wide x 1 3/4" high.
Handhold Panel:	Solid color Permalene®, color specified.
Belt:	.315" (8,00 mm) Thick mini rough top rubber belting with polyester fabric ply, black in color.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

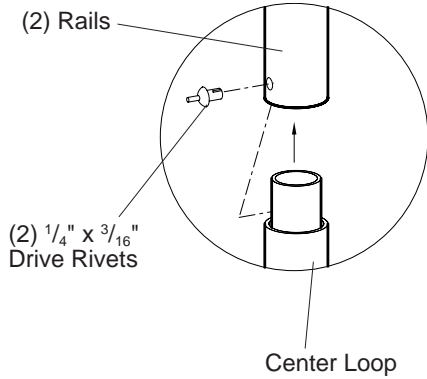
installation/specifications).

Installation Time: SM - Approx. 2 1/2 hours
DB - Approx. 3 1/2 hours
Concrete Req.: Approx. 2.6 cu. ft.
Weight: SM - 108 lbs.
DB - 112 lbs.
Fall Height: Deck Height

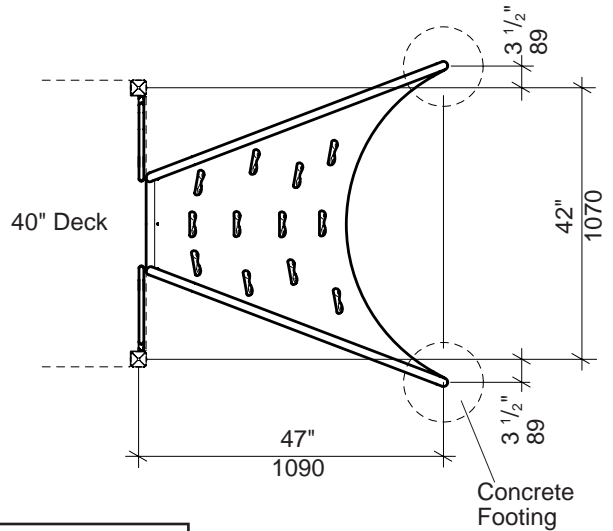
Installation Instructions

- (Direct Bury)** Dig footing holes spaced as shown.
- Insert upper loop onto rails.
- Drill through holes in rails into center loop with a 1/4" or "F" (only) drill bit. Insert 1/4" x 3/16" drive rivets in holes and hammer drive rivet pin in until flush with head. Refer to the Frame Assembly Detail.
- Attach belt to framework using 3/8" x 1 1/8" BHCS w/pin with 3/8" flat washers (large) and 3/8" low crown cap nuts with 3/8" SAE flat washers (small). Begin at the center of the upper loop on the frame assembly, continuing down both side rails. **NOTE: Use a center punch to stretch the belt into position on bolt flange. Refer to the Belt Attachment Detail.**
- Attach footers to belt frame using 3/8" x 1 1/8" BHCS w/pin and 3/8" flange nuts w/pin.
- Attach hand grips to belt using 3/8" x 7/8" BHCS w/pin and mounting plates with 3/8" flange nuts w/pin.
- Attach handhold panels to post flanges using 3/8" x 5/8" BHCS w/pin and 3/8" flange nuts w/pin.
- Attach angles to handhold panels using 3/8" x 5/8" BHCS w/pin and 3/8" flange nuts w/pin.
- Using the hole in the angle as a guide, drill through the deck using a 3/8" drill bit. Attach angles to deck using 5/16" x 7/8" BHCS w/pin with 3/8" SAE flat washers (small) and 5/16" standard hex nuts with 3/8" SAE flat washers (small).
- (Direct Bury)** With belt climber in final position, pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.
(Surface Mount) Drill 1/2" x 3" deep holes through footer plates using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Fasten footer plates to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.
- Install protective surfacing before users are allowed to play on the structure.

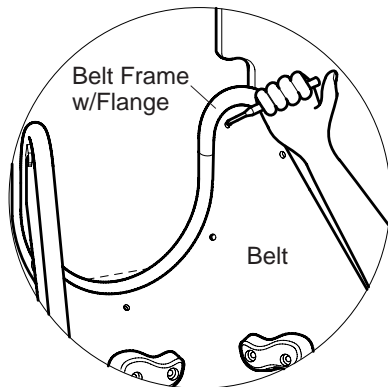
**DETAIL
 FRAME ASSEMBLY**



PLAN VIEW/FOOTING LAYOUT

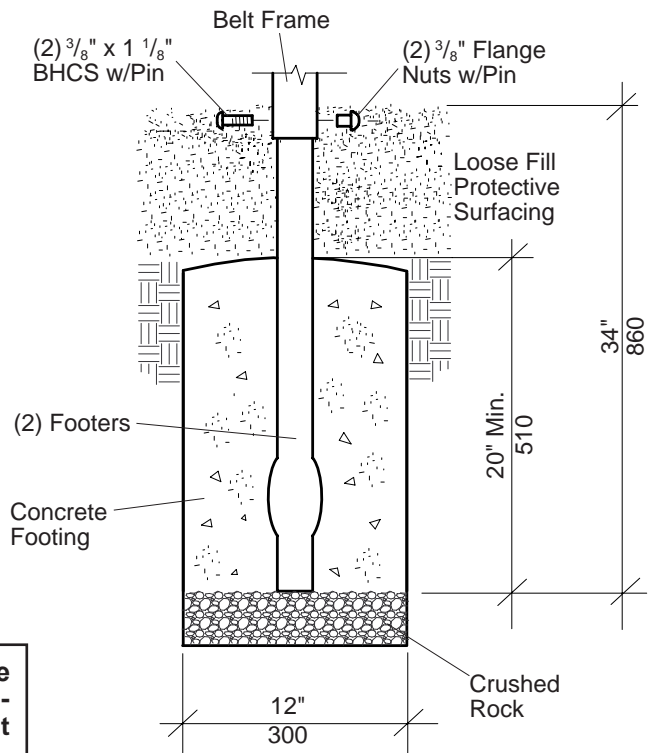


**DETAIL
 BELT ATTACHMENT**

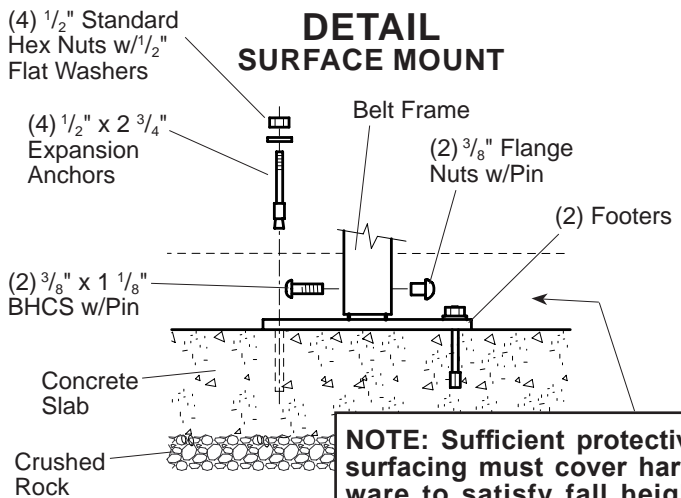


NOTE: Use a center punch to stretch the belt into position on bolt flange.

**DETAIL
 DIRECT BURY**

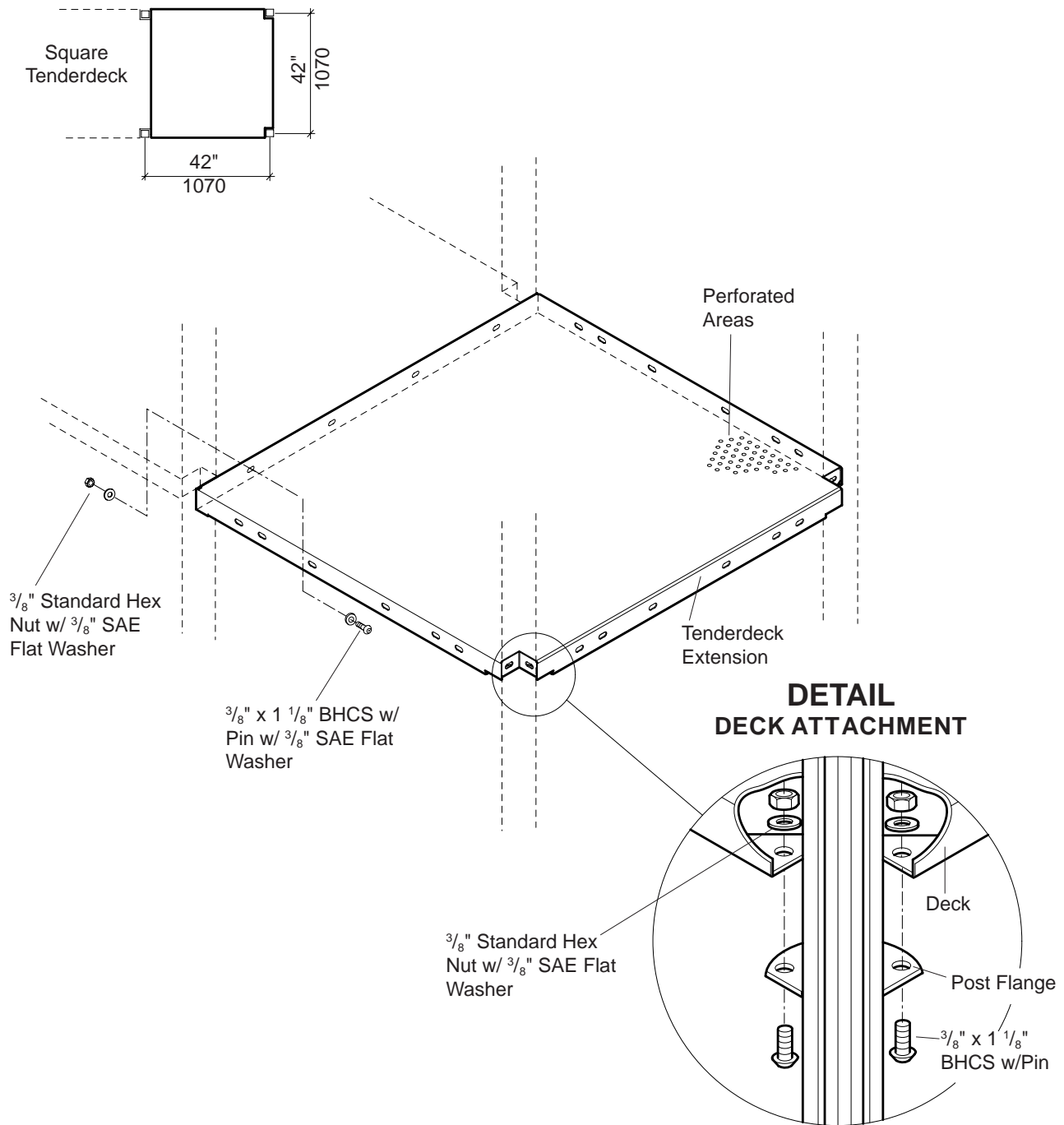


**DETAIL
 SURFACE MOUNT**



NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

PLAN VIEW/ FOOTING LAYOUT





PlayShaper® 111239 Tenderdeck, Extension

Parts List

Part#	Description	Qty.
153300	Tenderdeck Extension, Specify Color	1
106697	Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	8
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	8
100365	$\frac{3}{8}$ " SAE Flat Washer, SST.....	12

Specifications

Sq. Deck Extension: Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1011. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Deck face has (6) slotted holes for face mounting components. The finished size measures $2\frac{5}{8}$ " x 42" x $44\frac{3}{8}$ ". Finish: TenderTuff™, color specified.

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

Installation Time: Approx: $\frac{3}{4}$ man hour
Weight: 97 lbs.

Installation Instructions

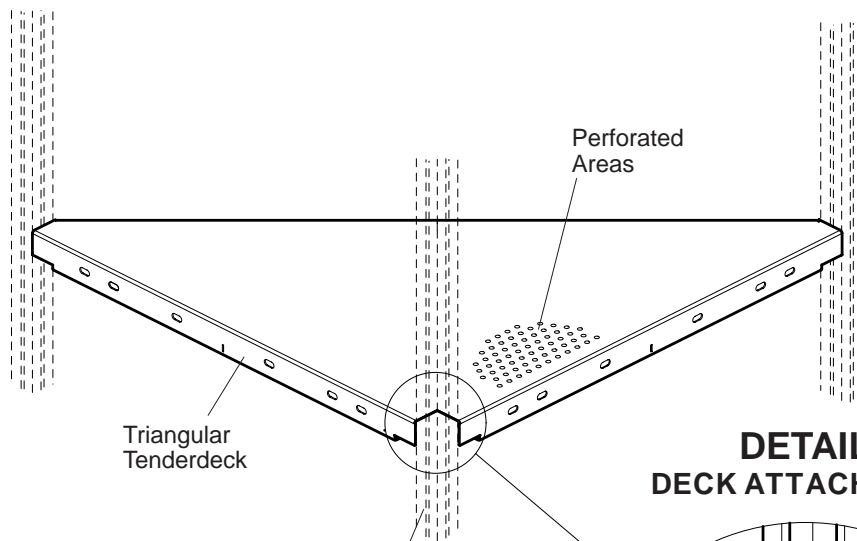
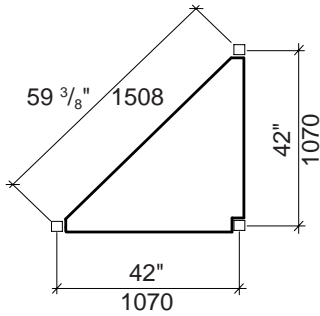
- 1) Orient posts correctly according to labeled post letters and set in proper footing holes.
- 2) Position deck on post flanges and attach using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/ pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. See Deck Attachment Detail.
- 3) Attach extension to tenderdeck using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers.
- 4) Level deck and plumb posts.
- 5) Install other panels/ components according to their respective installation sheets.
- 6) Pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before user are allowed to play on the structure.
- 7) Install protective surfacing before users are allowed to play on the structure.



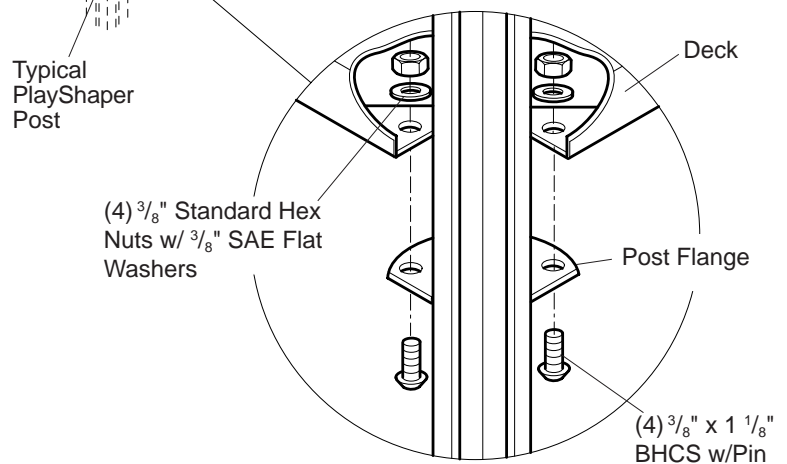
SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

15330500

**PLAN VIEW
 FOOTING LAYOUT**



**DETAIL
 DECK ATTACHMENT**





PlayShaper® 117495 Tenderdeck, Triangular

Parts List

Part#	Description	Qty.
153299	Tri-Deck, Specify Color	1
117406	Tri-Deck Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST	4
100327	$\frac{3}{8}$ " Standard Hex Nut, SST	4
100365	$\frac{3}{8}$ " SAE Flat Washer, SST.....	4

Specifications

Triangular Deck: Flange formed from 12 GA (.105") sheet steel conforming to ASTM A1010. Standing surface is perforated with $\frac{5}{16}$ " diameter holes. Deck face has (6) slotted holes for face mounting components. The finished size of two of the three sides measures $2\frac{5}{8}$ " x $39\frac{1}{4}$ " on the face of the deck and the other side measures $2\frac{5}{8}$ " x $55\frac{1}{2}$ ". Finish: TenderTuff™, color specified.

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

Installation Time: Approx. $\frac{1}{2}$ man hour
Weight: 60 lbs.

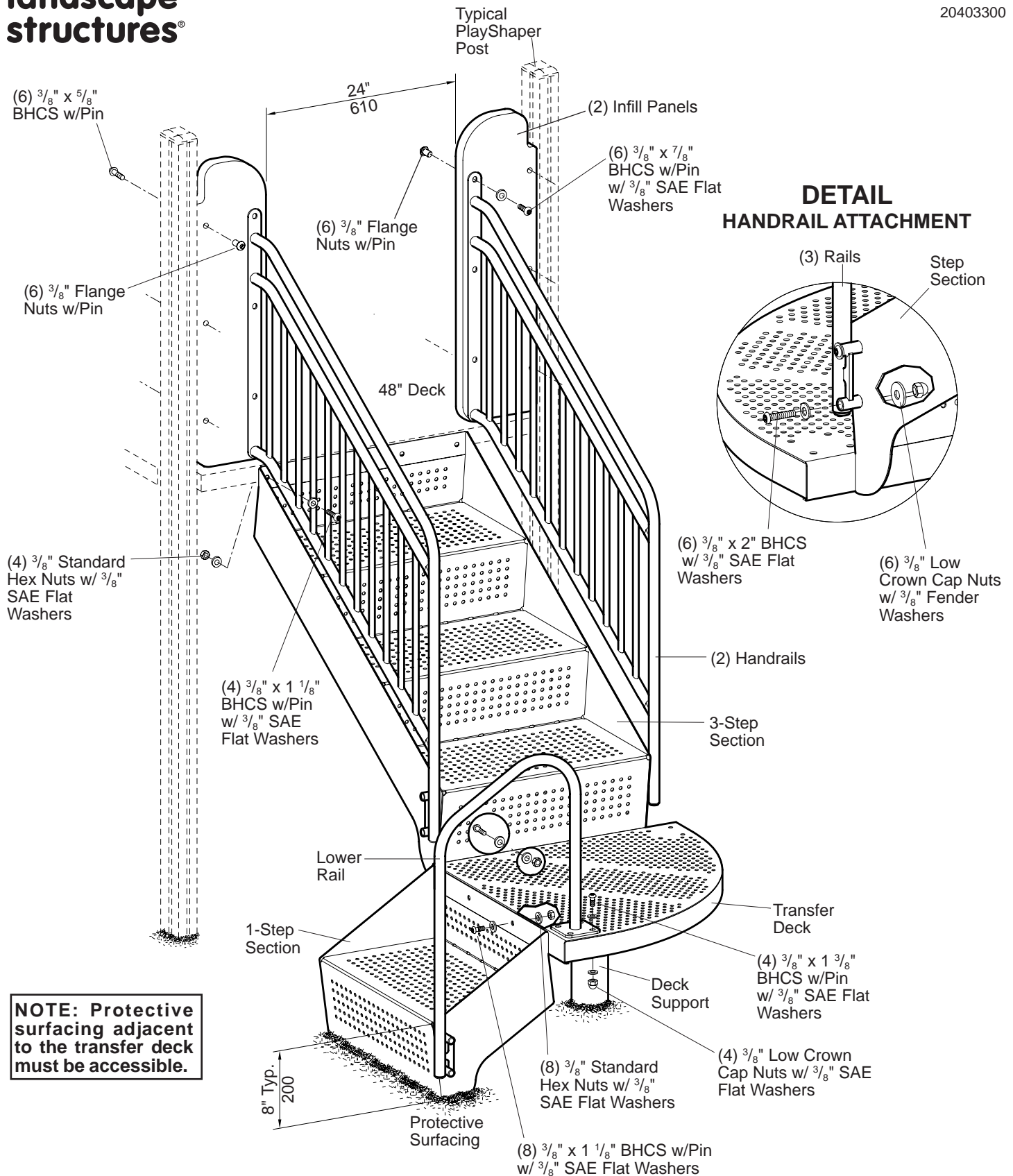
Installation Instructions

- 1) Orient posts correctly according to labeled post letters and set in proper footing holes.
- 2) Position deck on post flanges and attach using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/ pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. See Deck Attachment Detail.
- 3) Plumb posts and level deck. After components and enclosures are in place, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.
- 4) Install protective surfacing before users are allowed to play on the structure.



SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

20403300



NOTE: Protective surfacing adjacent to the transfer deck must be accessible.



PlayShaper® 153020 Transfer Module, 48", w/Handrails

Parts List

Part#	Description	Qty.
144696	1-Step Section, Specify Color	1
144700	3-Step Section, Specify Color	1
153398	Transfer Deck, Specify Color	1
175883	3-Step Handrail, Specify Color	2
152641	Lower Rail, Specify Color	1
181371	Deck Support (DB), Specify Color	1
181373	Deck Support (SM), Specify Color	1
181374	Step Support (DB), Specify Color	1
181376	Step Support (SM), Specify Color	1
175530	Infill Panel, Specify Color	2
204036	Transfer Module Hardware Package	1
100173	3/8" x 2" BHCS w/Pin, SST	6
100195	3/8" x 5/8" BHCS w/Pin, SST	6
100196	3/8" x 7/8" BHCS w/Pin, SST	12
100198	3/8" x 1 1/8" BHCS w/Pin, SST	12
100327	3/8" Standard Hex Nut, SST	16
100353	3/8" Flange Nut w/Pin, SST	12
100365	3/8" SAE Flat Washer, SST	50
113027	3/8" x 1 3/8" BHCS w/Pin, SST	4
100378	3/8" Fender Washer, SST	6
100349	3/8" Low Crown Cap Nut, SST	12
111393	4-Hole (SM) Hardware Package	1
100263	3/8" x 2 3/4" Expansion Anchors	4
100327	3/8" Standard Hex Nut, SST	4
100365	3/8" SAE Flat Washers, SST	4
121256	2-Hole (SM) Hardware Package	1
100263	3/8" x 2 3/4" Expansion Anchors	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washers, SST	2

DB=Direct Bury
SM=Surface Mount

Specifications

Deck:	Flange formed from 12 GA (.105") HRPO sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" diameter holes and measure 29" per (2) sides. Finish: TenderTuff®, color specified.
Railings:	Weldment comprised of formed 1 1/8" O.D. x 11 GA (.120") steel tubing, 5/8" O.D. steel rod, 3/16" thick HRPO flat steel, 3/16" thick HRPO steel plate and 3/4" O.D. x 11 GA (.120") stainless steel tubing. Finish: TenderTuff, color specified.
Step Sections:	Formed from 12 GA (.105") HRPO sheet steel conforming to ASTM A1011. Standing surface is 24 3/8" wide x 14" deep and is perforated with 5/16" diameter holes. Finish: TenderTuff, color specified.
Deck Support:	Weldment comprised of 3 1/2" O.D. RS20 (.125") galvanized steel tubing and 3/8" O.D. x 5" long rod. Finish: ProShield®, color specified.
Step Support:	Weldment comprised of 1.660 O.D. RS20 (.080"-.095) and 1 3/4" x 1 3/4" x 1/8" HR angle. Finish: ProShield, color specified.
Panel:	Solid color Permalene®, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	SM - Approx. 3 man hours DB - Approx. 4 man hours
Concrete Req.:	Approx. 3.4 cu. ft.
Weight:	SM - 284 lbs. DB - 299 lbs.
Fall Height:	Deck Height

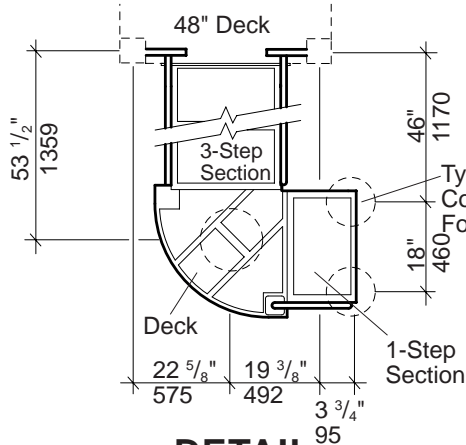
Installation Instructions

- 1) **(Direct Bury)** Dig footings as shown. Refer to your Plan View/Footing Layout.
- 2) Attach the deck support to the transfer deck using 3/8" x 7/8" BHCS w/pin and 3/8" low crown cap nuts with 3/8" SAE flat washers. **NOTE: Make sure 3/8" rod on support is under support strap on deck as shown.** Refer to the Deck Support Attachment Detail.
- 3) Attach the 3-step section to the transfer deck using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers.
- 4) Attach the 3-step section to the face of the mainstructure deck using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers.
- 5) Attach the step support to the 1-step section using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts. Refer to the Step Support Attachment Detail.
- 6) Attach the 1-step section to the transfer deck using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers.
- 7) Attach infill panels to the posts using 3/8" x 5/8" BHCS w/pin with 3/8" flange nuts w/pin.
- 8) Attach the handrails to the steps using 3/8" x 2" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" fender washers. Refer to the Handrail Attachment Detail.
- 9) Attach handrails to the infill panels using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin.
- 10) Attach the lower rail to the transfer deck using 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers.
- 11) Attach the lower rail to the 1-step section using 3/8" x 2" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" fender washers. Refer to the Handrail Attachment Detail.
- 12) **(Direct Bury)** With transfer deck and steps level and supports plumb, pour concrete footings. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.

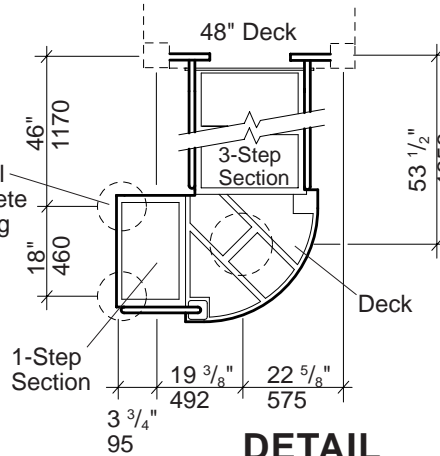
(Surface Mount) Mark holes for expansion anchors on concrete slab through support plates. Detach the module from the mainstructure and slide module aside, drill 3/8" x 3" deep holes on marks using hammer drill and 3/8" masonry bit. Reposition module over drilled holes and tap expansion anchors into drilled holes. Fasten support plates to expansion anchors using 3/8" standard hex nuts with 3/8" SAE flat washers. Reattach module to structure.

- 13) Install protective surfacing before users are allowed to play on the structure.

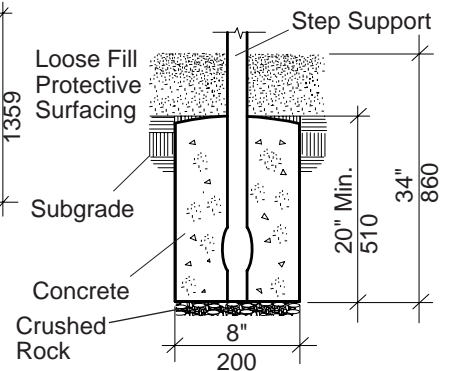
**PLAN VIEW
FOOTING LAYOUT
RIGHT HAND STEP**



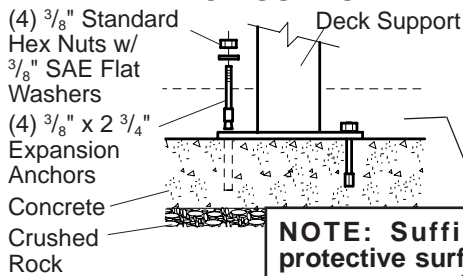
**PLAN VIEW
FOOTING LAYOUT
LEFT HAND STEP**



**DETAIL
STEP SUPPORT BURY**

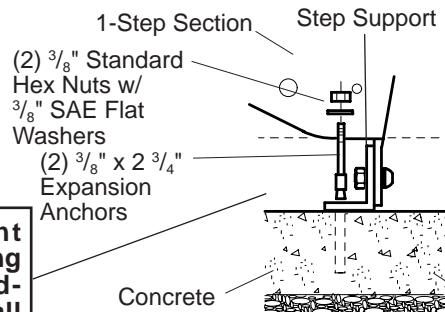


**DETAIL
SURFACE MOUNT
DECK SUPPORT**

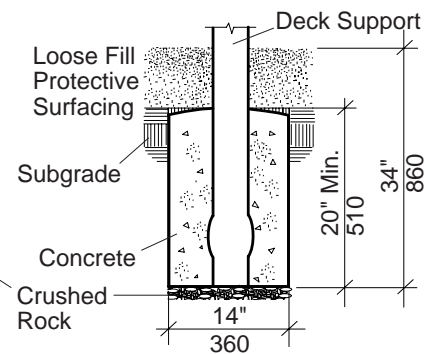


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

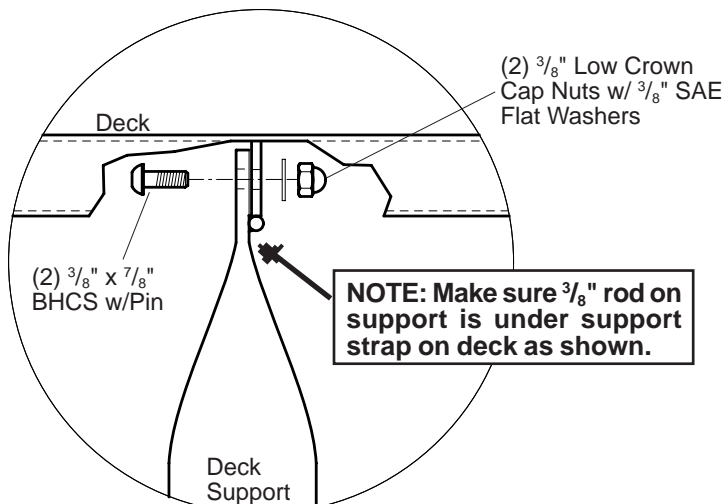
**DETAIL
SURFACE MOUNT
STEP SUPPORT**



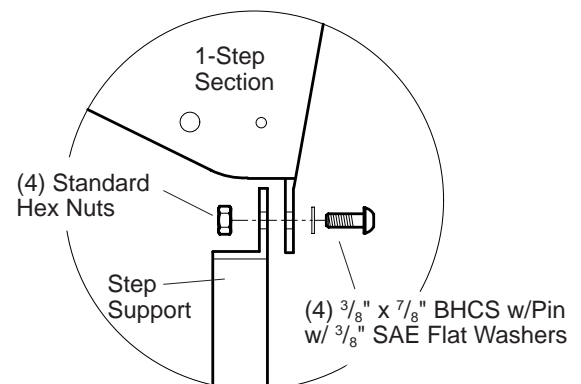
**DETAIL
DECK SUPPORT BURY**



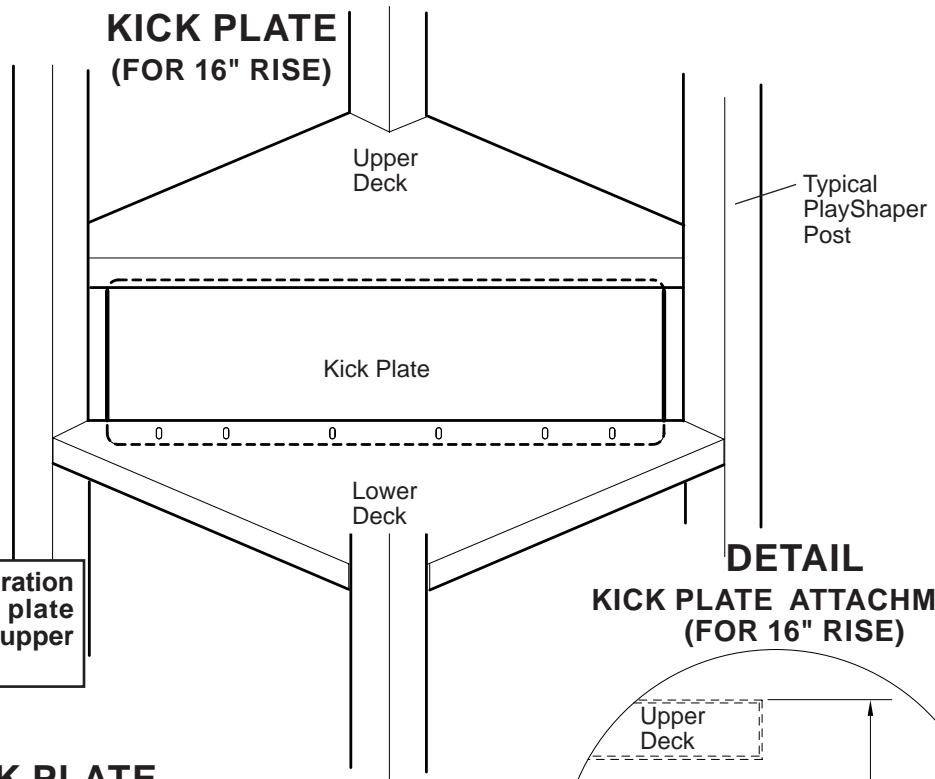
**DETAIL
DECK SUPPORT ATTACHMENT**



**DETAIL
STEP SUPPORT ATTACHMENT**

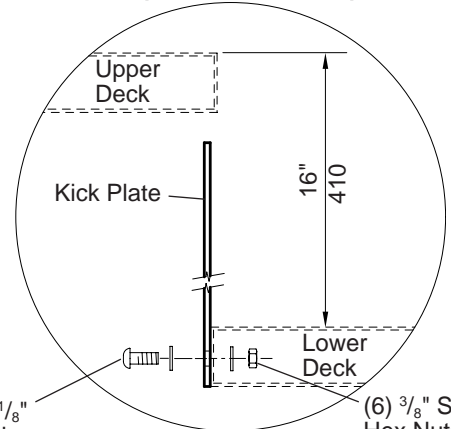


**KICK PLATE
(FOR 16" RISE)**



NOTE: Tri-Deck configuration may require the kick plate to be mounted to the upper deck.

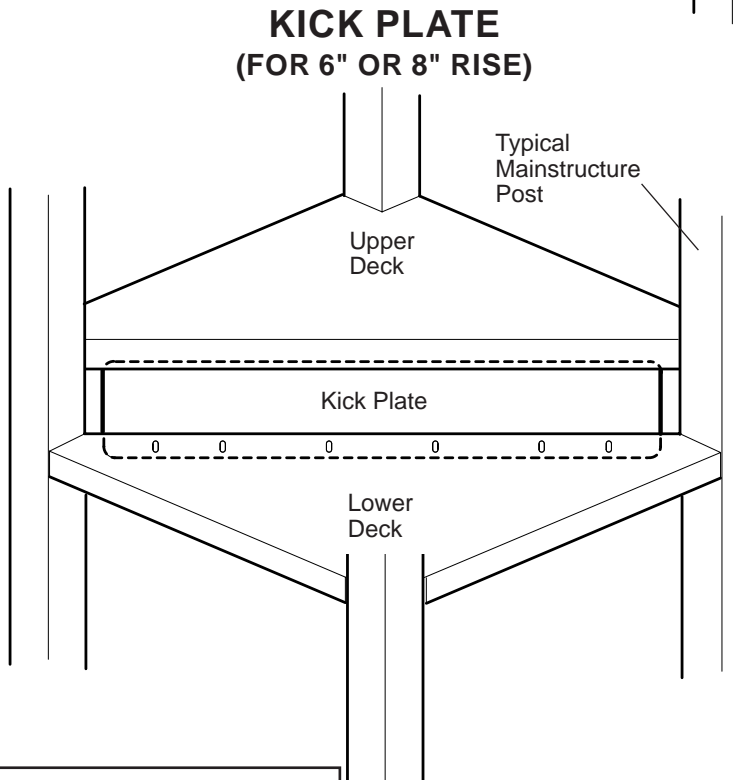
**DETAIL
KICK PLATE ATTACHMENT
(FOR 16" RISE)**



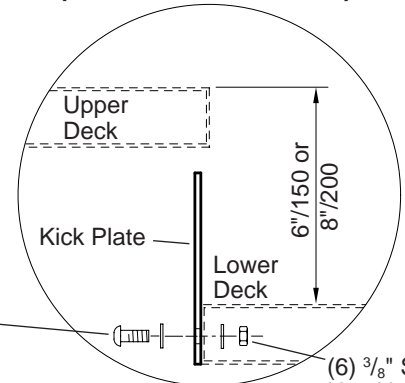
(6) $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin w/ $\frac{3}{8}$ " Flat Washers

(6) $\frac{3}{8}$ " Standard Hex Nuts w/ $\frac{3}{8}$ " Flat Washers

**DETAIL
KICK PLATE ATTACHMENT
(FOR 6" OR 8" RISE)**



NOTE: Kick Plates mount to face of lower deck.



(6) $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin w/ $\frac{3}{8}$ " Flat Washers

(6) $\frac{3}{8}$ " Standard Hex Nuts w/ $\frac{3}{8}$ " Flat Washers

PlayShaper® 179362 Kick Plates, 90° Tri-Decks, 6", 8" & 16"



PlayShaper® 179362 Kick Plates, 90° Tri-Decks, 6", 8" & 16"

Parts List

Part#	Description	Qty.
121820	Kick Plate (For 6" or 8" Rise), Specify Color	1
121822	Kick Plate (For 16" Rise), Specify Color	1
156059	Kick Plate Tenderdeck Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	6
100327	3/8" Standard Hex Nut, SST.....	6
100362	3/8" Flat Washer, SST.....	12

Specifications

Kick Plate: Fabricated from 11 GA (.120") HR flat steel. Finish: TenderTuff™, color specified.

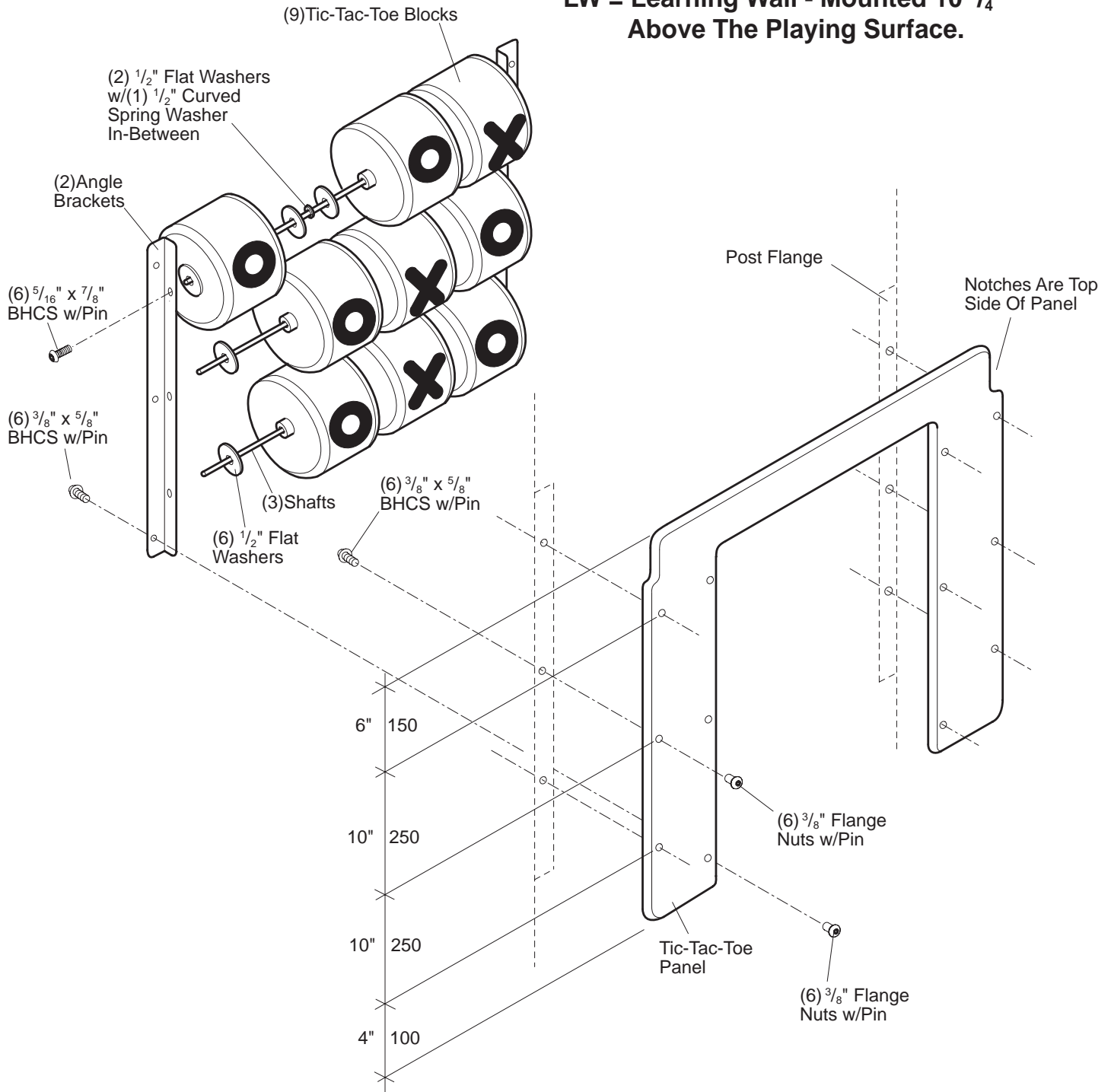
Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).

Installation Time: Approx. 1/4 labor hour
Weight: Kick Plate (For 6" or 8" Rise) 13 lbs.
 Kick Plate (For 16" Rise) 33 lbs.

Installation Instructions

- 1) Locate kick plates as labeled on your plan drawing.
- 2) Attach kick plate using 3/8" x 1 1/8" BHCS w/pin with 3/8" flat washers and 3/8" standard hex nuts with 3/8" flat washers, as shown. **NOTE:** *Kick plates mount to face of lower deck.*
- 3) Install protective surfacing before users are allowed to play on the structure.

PS = Playshaper
LW = Learning Wall - Mounted 10 3/4" Above The Playing Surface.





PlayShaper® 111293/184862 Tic-Tac-Toe Panel

Parts List

Part#	Description	Qty.
130642	Tic-Tac-Toe Block, Tan	9
137157	Shaft Set	1
106174	Shaft 1/2" Dia x 20.75" Set, SST.....	3
104715	Angle Bracket, Specify Color.....	2
108866	Tic-Tac-Toe Panel, Specify Color	1
134721	Attachment Hardware	1
132626	5/16" x 7/8" BHCS w/Pin, SST	6
100195	3/8" x 5/8" BHCS w/Pin, SST	12
100353	3/8" Flange Nut w/Pin, SST.....	12
100363	1/2" Flat Washer, SST	18
100380	1/2" Curved Spring Washer.....	6

Specifications

Permalene® Panel: Solid color panel measures 39 1/2" wide x 30" high, color specified.

Tic-Tac-Toe Blocks: Rotationally molded from U.V. stabilized linear low density polyethylene, tan in color with brown molded-in symbols.

Tic-Tac-Toe Brkt: Formed from .125" thick 5052 aluminum. Finish: ProShield®, color specified.

Shafts: Fabricated from 1/2" diameter stainless steel with ends tapped 5/16" 18UNC-2B.

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

Installation Time: Approx. 1/2 man hour

Weight: 40 lbs.

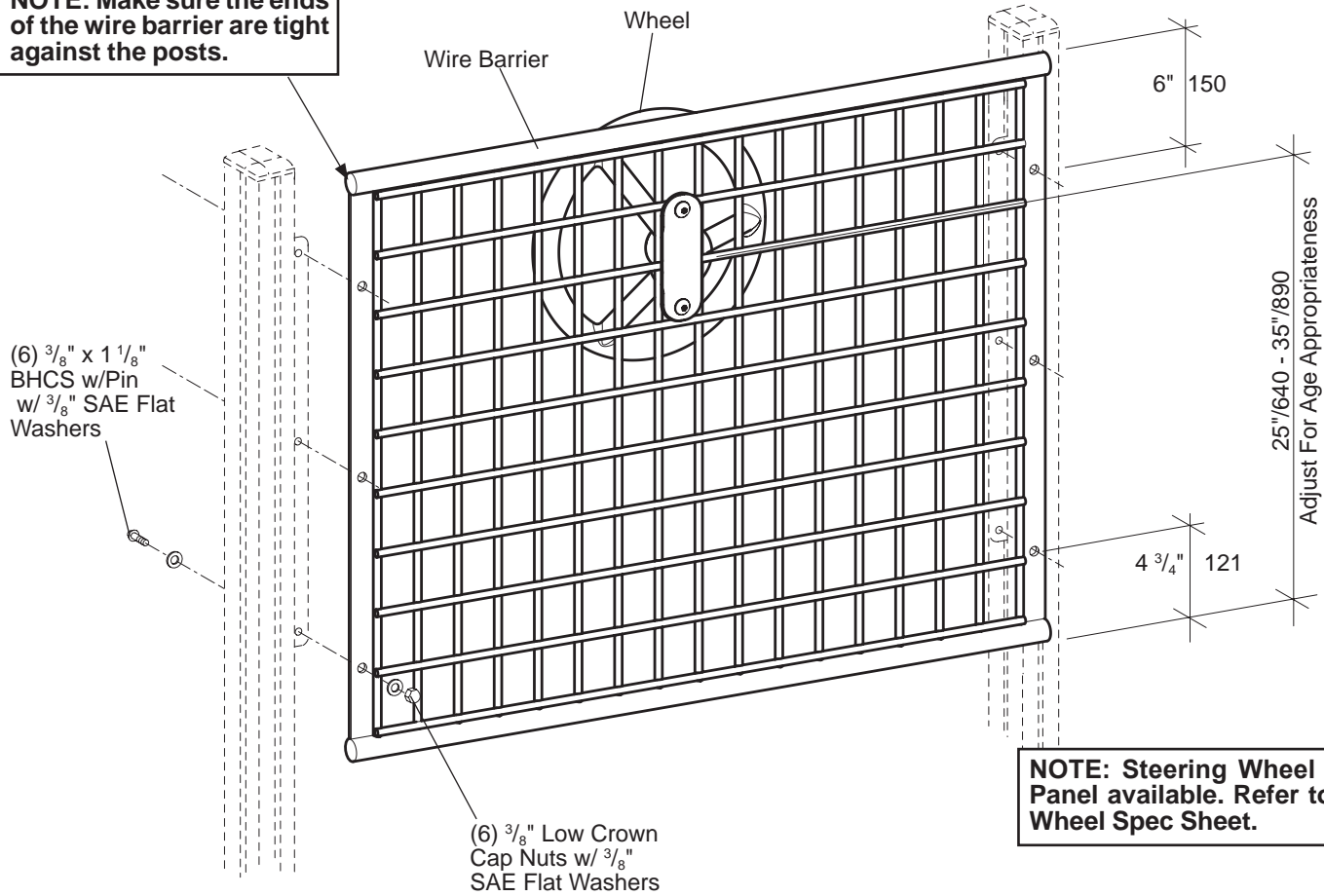
Installation Instructions

- 1) Attach shafts to one angle bracket, as shown, using 5/16" x 7/8" BHCS w/pin.
- 2) Thread a 1/2" flat washer onto shaft, then one block over shaft followed by a 1/2" flat washer, 1/2" curved spring washer, and 1/2" flat washer, another block etc., ending with a 1/2" flat washer. Continue in this sequence until all blocks are on shafts. Fasten other angle bracket to shafts as previous.
- 3) Attach tic-tac-toe block assembly to panel using 3/8" x 5/8" BHCS w/pin through angle brackets and 3/8" flange nuts w/pin through panel.
- 4) Attach panel to post flanges using 3/8" x 5/8" BHCS w/pin and 3/8" flange nuts w/pin.
- 5) Install protective surfacing before users are allowed to play on the structure.



SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

NOTE: Make sure the ends of the wire barrier are tight against the posts.



NOTE: Steering Wheel Infill Panel available. Refer to the Wheel Spec Sheet.

Parts List

Part#	Description	Qty.
143725	Wire Barrier, Specify Color.....	1
108432	Wheel, Specify Color	1
127242	Steering Wheel Bracket, Tan	1
222309	Wire Bracket, Black	1
143724	Wire Barrier Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST.....	6
100365	3/8" SAE Flat Washer, SST.....	12
100349	3/8" Low Crown Cap Nuts, SST.....	6
240354	Steering Wheel Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100353	3/8" Flange Nut w/Pin, SST.....	2
237528	3/16" x 7/8" Spring Pin, SST	1
234353	Cap, White.....	1
100365	3/8" SAE Flat Washer, SST.....	2

Specifications

Barrier:	Weldment comprised of 1 1/8" O.D. steel horizontal rails with 203 or 303 stainless steel welded inserts with 5/8" internal threads, 1/4" x 1 1/4" HRPO flat steel and 1/4" diameter wire. Barrier measures 39 1/4" wide x 30 13/16" high. Finish: TenderTuff, color specified.
Wheel:	12" diameter cast 319.1 aluminum alloy. Shaft-303 stainless steel. Finish: TenderTuff, color specified.
Wire Bracket:	3/16" (4,74 mm) Thick HRPO flat steel. Finish: ProShield®, black in color.
Wheel Bracket:	Weldment comprised of formed 3/16" plate and 5/8" O.D. shaft. Finish: ProShield®, tan in color.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	Approx. 3/4 man hour
Weight:	29 lbs.

Installation Instructions

- 1) Attach wire barrier to post flanges using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers, as shown.
- 2) Attach wheel bracket and wire bracket to barrier in desired position. Slide wheel and cap onto wheel bracket shaft and tap 3/16" x 7/8" spring pin through cap and shaft. Refer To The Wheel Assembly Details on sheets 2.
- 3) Install protective surfacing before users are allowed to play on the structure.

**DETAIL
WHEEL ASSEMBLY**

3/16" x 7/8"
Spring Pin

Cap

Wheel
Bracket

Wheel

**DETAIL
SPRING PIN INSERTION
(CAP BACK VIEW)**

3/16" x 7/8"
Spring Pin

1/16"

Cap

NOTE: To assist in the alignment of the cap to the wheel bracket shaft, tap spring pin through cap approximately 1/16". Orient spring pin to groove on wheel bracket shaft. Slide cap in place and tap spring pin through cap and shaft until flush.

**DETAIL
WHEEL ASSEMBLY**

3/16" x 7/8"
Spring Pin

Cap

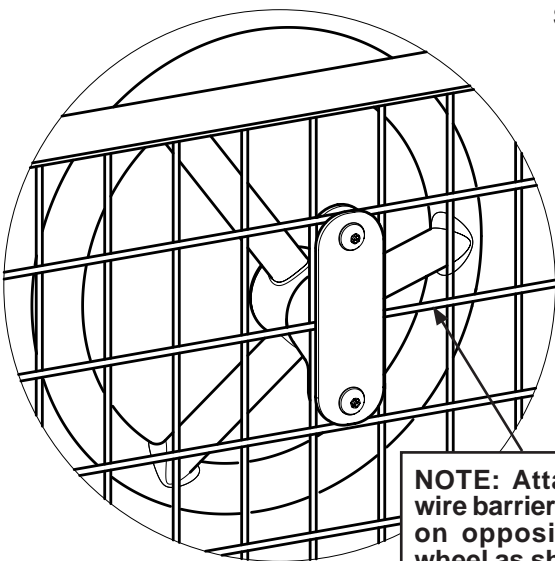
Wheel

(2) 3/8" x 7/8"
BHCS w/Pin
w/ 3/8" SAE Flat
Washers

Wire Bracket

Wheel Bracket

(2) 3/8" Flange
Nuts w/Pin

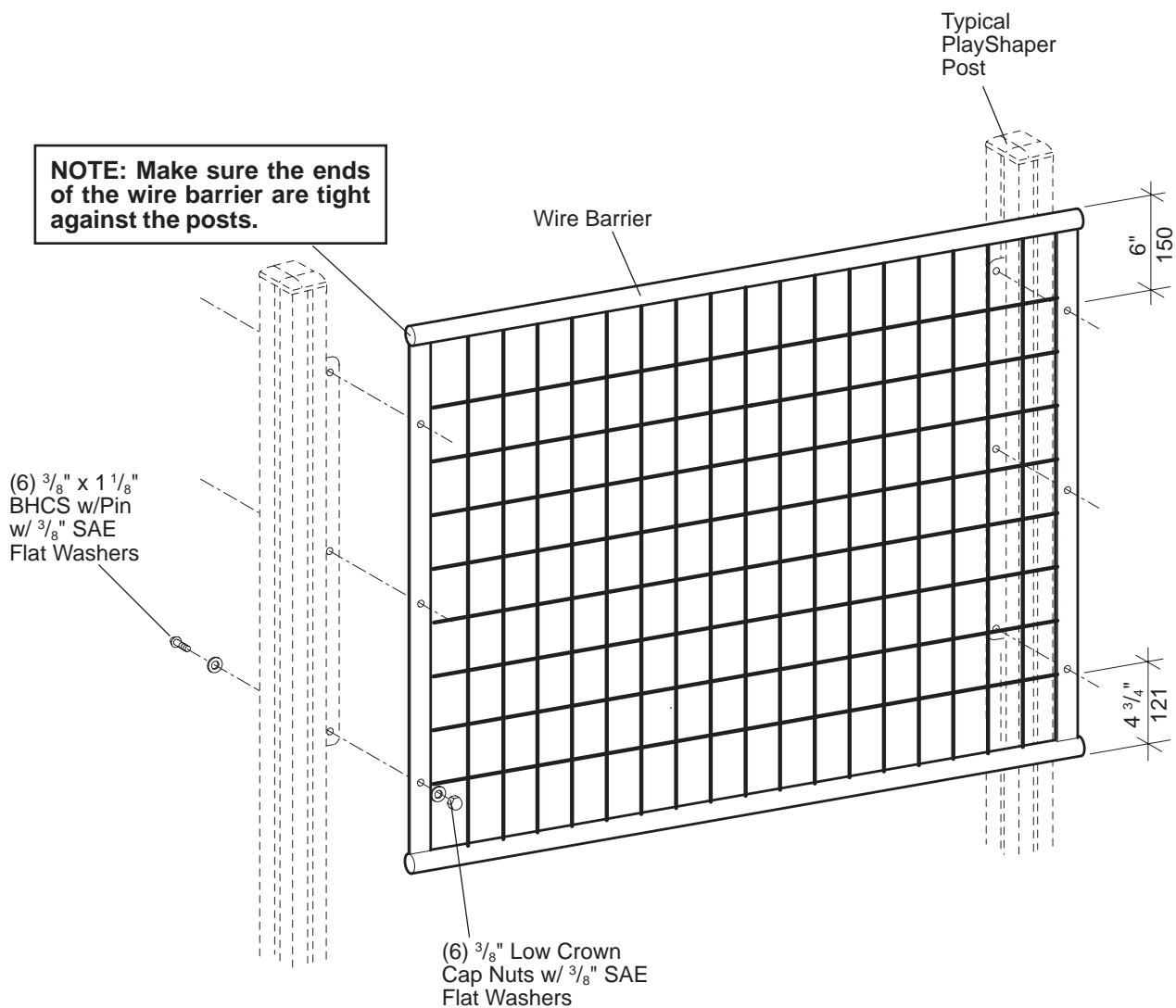


NOTE: Attach wire bracket to wire barrier with horizontal wires on opposite side of steering wheel as shown.



SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

26527200a





PlayShaper® 117946 Wire Barrier

Parts List

Part#	Description	Qty.
143725	Wire Barrier, Specify Color.....	1
143724	Wire Barrier Hardware Package	1
100198	$\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/Pin, SST.....	6
100365	$\frac{3}{8}$ " SAE Flat Washer, SST.....	12
100349	$\frac{3}{8}$ " Low Crown Cap Nuts, SST.....	6

Specifications

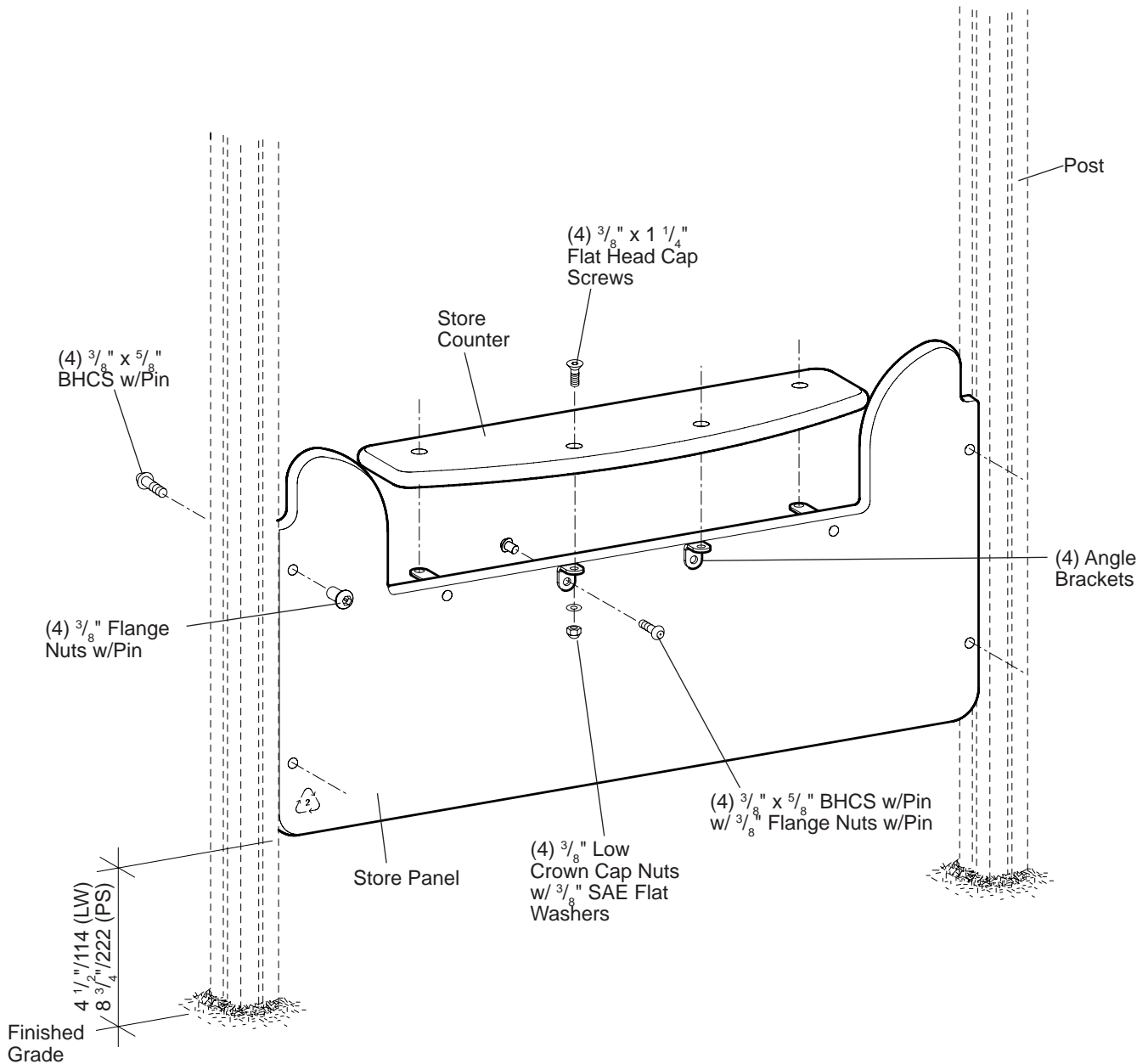
Barrier: $1\frac{1}{8}$ " O.D. steel horizontal rails with 203 or 303 stainless steel welded inserts with $\frac{5}{8}$ " internal threads, $\frac{1}{4}$ " x $1\frac{1}{4}$ " HRPO flat steel and $\frac{1}{4}$ " diameter wire. Barrier measures $39\frac{1}{4}$ " wide x $30\frac{13}{16}$ " high. Finish: TenderTuff™, color specified.

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

Installation Time: Approx. $\frac{1}{2}$ man hour
Weight: 24 lbs.

Installation Instructions

- 1) Attach wire barrier to post flanges using $\frac{3}{8}$ " x $1\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers, as shown.
- 2) Install protective surfacing before users are allowed to play on the structure.



LW = Learning Wall
PS = PlayShaper

NOTE: This Panel is used at ground level only.



PlayShaper® 144984/184887 Storefront Panel

Parts List

Part#	Description	Qty.
144981	Storefront Panel, Specify Color.....	1
144580	Store Counter, Specify Color.....	1
188683	Store Counter Top Hardware Package	1
100195	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	4
100252	$\frac{3}{8}$ " x $1\frac{1}{4}$ " Flat Head Cap Screw, SST	4
100349	$\frac{3}{8}$ " Low Crown Cap Nut, SST	4
100353	$\frac{3}{8}$ " Flange Nut w/Pin, SST	4
188664	Steel Angle Bracket, Silver.....	4
100365	$\frac{3}{8}$ " SAE Flat Washer, SST.....	4
112518	Panel Hardware Package	1
100195	$\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/Pin, SST	4
100353	$\frac{3}{8}$ " Flange Nut w/Pin, SST.....	4

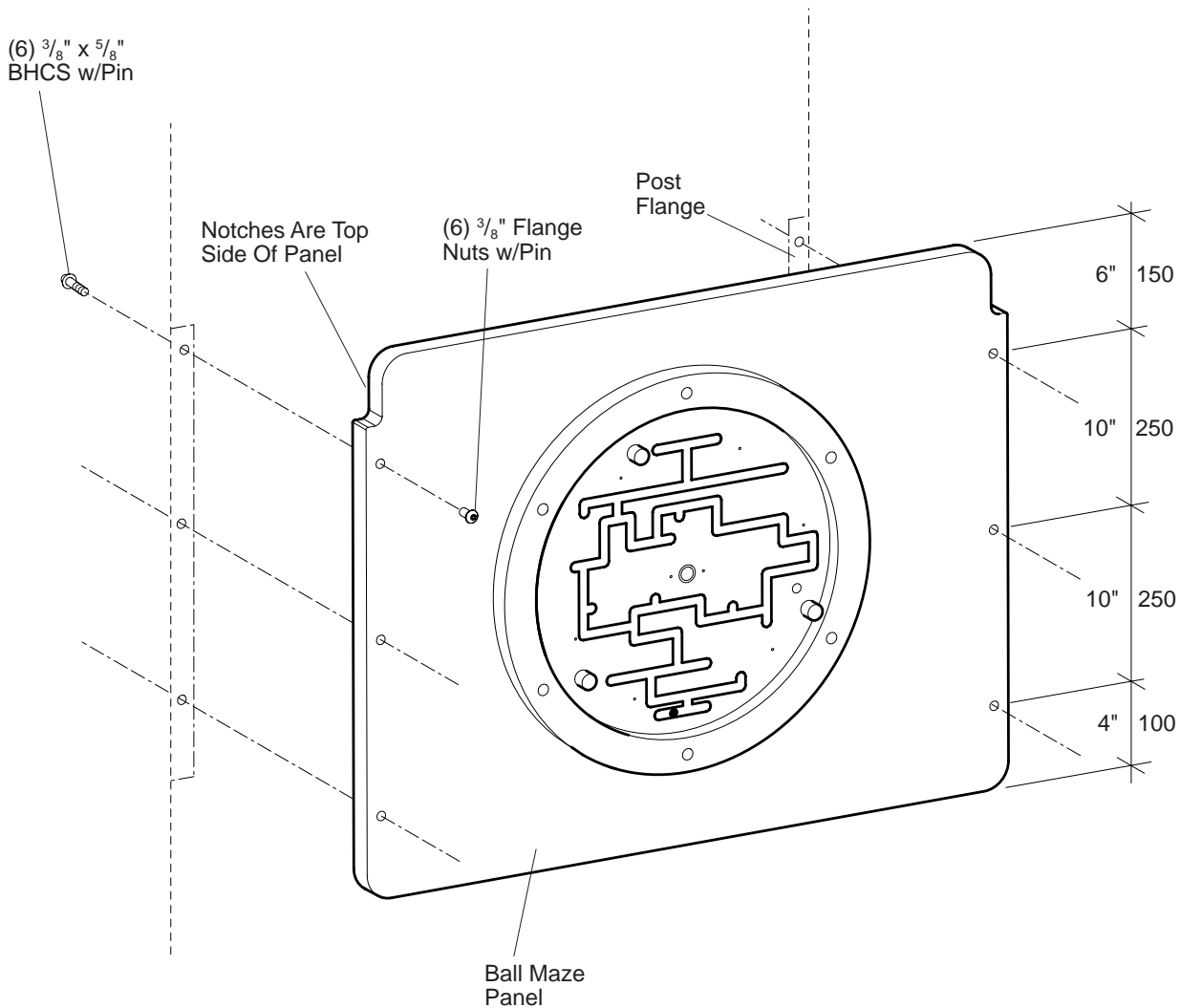
Specifications

- Store Panel:** Solid color Permalene®, color specified.
- Fasteners:** Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
- Installation Time:** Approx. $\frac{1}{2}$ man hour
- Weight:** 19 lbs.

Installation Instructions

- 1) Attach angle brackets to store front panel using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin through angles and $\frac{3}{8}$ " flange nuts w/pin through panel. Attach store counter top to angle brackets using $\frac{3}{8}$ " x $1\frac{1}{4}$ " flat head cap screws through counter top and $\frac{3}{8}$ " low crown cap nuts with $\frac{3}{8}$ " SAE flat washers underneath angle.
- 2) Attach panel to post flanges using $\frac{3}{8}$ " x $\frac{5}{8}$ " BHCS w/pin and $\frac{3}{8}$ " flange nuts w/pin.
- 3) Install protective surfacing before users are allowed to play on the structure.

PS = Playshaper
LW = Learning Wall - Mounted 10 3/4" Above The Playing Surface.



NOTE:
 The Ball Maze Panel is pre-assembled at the factory.



PlayShaper® 111300/184868 Ball Maze Panel

Parts List

Part#	Description	Qty.
133220	Ball Maze Panel Assy., Specify Color.....	1
106480	Ball Maze Hardware Package	1
100195	³ / ₈ " x ⁵ / ₈ " BHCS w/Pin, SST	6
100353	³ / ₈ " Flange Nut w/Pin, SST	6

Specifications

- Permalene® Panel:** Two color panel measures 39 1/2" wide x 30" high, color specified.
- Cover:** Made from .177" thick x 18 5/16" diameter clear polycarbonate.
- Ball:** 1/2" Diameter, stainless steel.
- Fasteners:** Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
- Installation Time:** Approx. 1/4 man hour
- Weight:** 52 lbs.

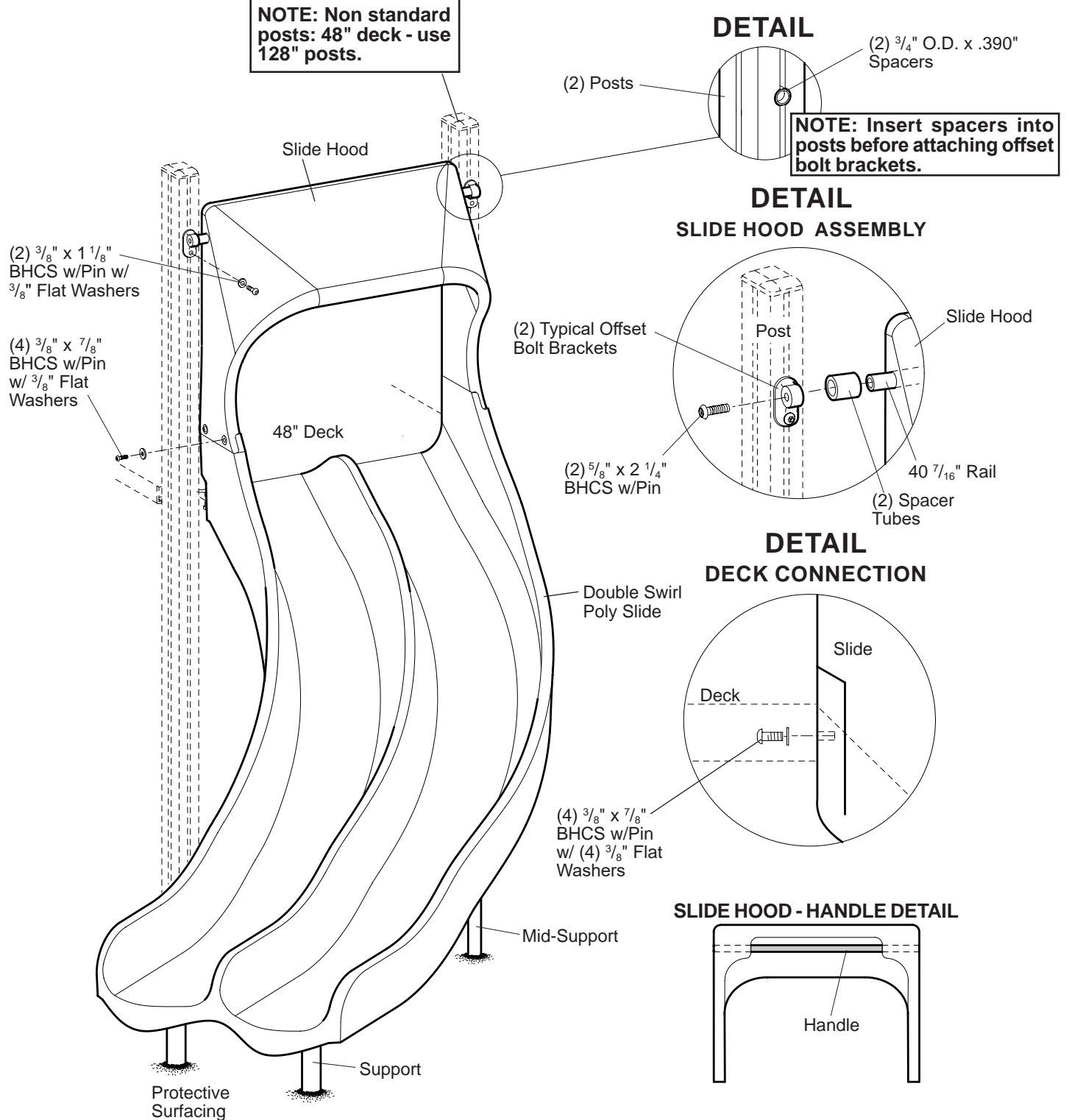
Installation Instructions

- 1) Attach panel to post flanges using ³/₈" x ⁵/₈" BHCS w/pin and ³/₈" flange nuts w/pin.
- 2) Install protective surfacing before users are allowed to play on the structure.



SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

NOTE: Non standard posts: 48" deck - use 128" posts.

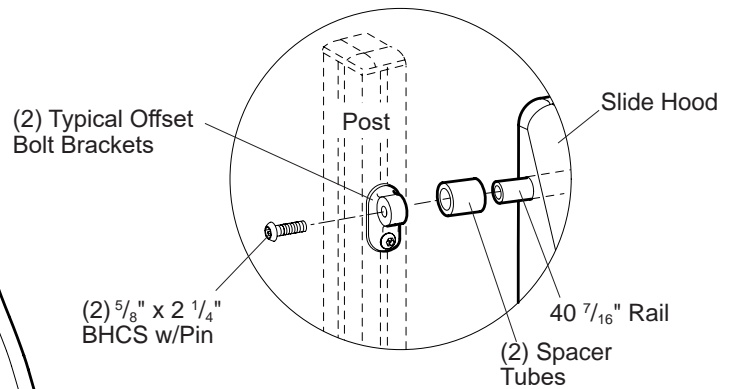


DETAIL

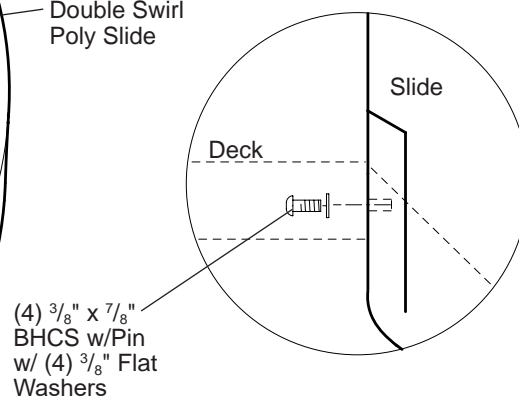


NOTE: Insert spacers into posts before attaching offset bolt brackets.

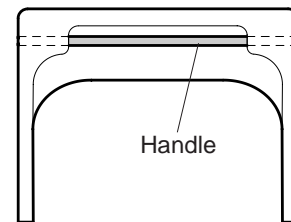
**DETAIL
SLIDE HOOD ASSEMBLY**



**DETAIL
DECK CONNECTION**



SLIDE HOOD - HANDLE DETAIL



Parts List

Part#	Description	Qty.
127404	Double Swirl Slide, Specify Color.....	1
128777	Slide Hood, Specify Color.....	1
100583	40 7/16" Aluminum Rail, Specify Color.....	1
113895	Offset Bolt Bracket, Specify Color.....	2
132443	Spacer Tubes, Specify Color.....	2
150941	Support (DB), Specify Color.....	2
128517	Mid-Support (DB), Specify Color.....	1
151028	Support 48" Deck (SM), Specify Color.....	2
128518	Mid-Support 48" Deck (SM), Specify Color.....	1
255919	Double Swirl Slide Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST.....	8
100198	3/8" x 1 1/8" BHCS w/Pin, SST.....	2
100203	5/8" x 2 1/4" BHCS w/Pin, SST.....	2
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread Bolt, SST.....	6
100362	3/8" Flat Washer, SST.....	22
111442	Rubber Bushing.....	6
166868	3/4" O.D. x .390" Spacer, Aluminum.....	2
111392	2-Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor.....	2
100322	1/2" Standard Hex Nut, SST.....	2
100363	1/2" Flat Washer, SST.....	2
121348	4 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor.....	4
100322	1/2" Standard Hex Nut, SST.....	4
100363	1/2" Flat Washer, SST.....	4

DB=Direct Bury
SM=Surface Mount

Specifications

Slide:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Hood:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Spacer Tube:	Fabricated from 1.3125 O.D. x 16 Ga. (.065) steel tubing. Finish: ProShield®, color specified.
Rail:	Extruded from 1.125" O.D. x .312" W. 6005-T5 aluminum. Finish: ProShield, color specified.
Mid-Support:	Weldment comprised of 1.660" O.D. RS-20 (.085" - .095") galvanized steel tubing and 1/4" x 3" mounting plate. Finish: ProShield, color specified.
Support:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" x 3" mounting plate. Finish: ProShield, color specified.
Offset Bolt Bracket:	Cast from 356-T6 aluminum alloy. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	SM - Approx. 2 man hours DB - Approx. 3 man hours
Concrete Req.:	Approx. 2.6 cu. ft.
Area Req.:	6' (1,83 m) minimum use zone at exit
Weight:	176 lbs. DB 164 lbs. SM
Fall Height:	48" (1,22 m) Deck Height

Installation Instructions

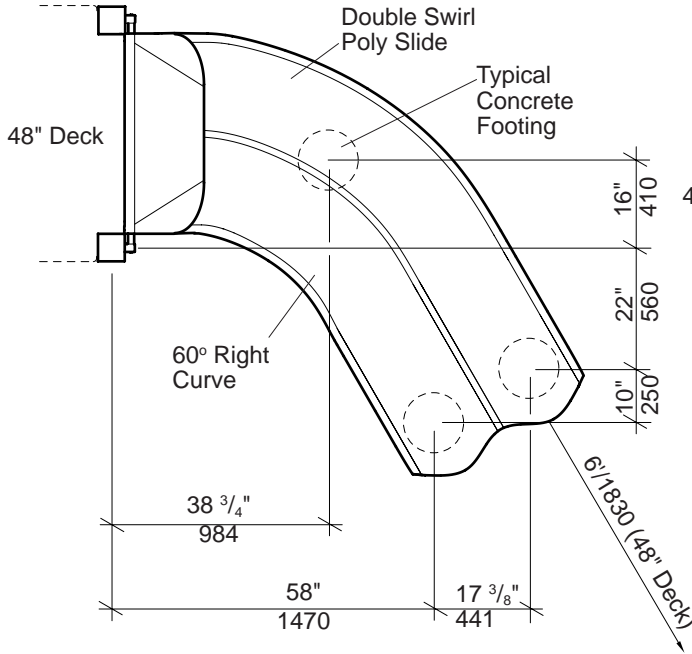
Direct Bury

- 1) Dig footings spaced as shown.
- 2) Attach the supports to the slide using 3/8" x 1 1/4" BHCS w/pin limited thread bolts, 3/8" flat washers, rubber bushings and 3/8" flat washers. Refer to the Support Attachment Detail. **NOTE: Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only, do not overtighten!**
- 3) Attach offset bolt brackets to posts using 3/4" O.D. x .390" spacers and 3/8" x 1 1/8" BHCS w/pin with 3/8" flat washers, as shown. Refer to Details.
- 4) Attach the slide to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers. Refer to the Deck Connection Detail.
- 5) Attach the slide hood to the slide using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers.
- 6) Insert 40 7/16" rail through top of hood, place spacer tubes over each end of the 40 7/16" rail and attach to the offset bolt brackets using 5/8" x 2 1/4" BHCS w/pin.
- 7) Prop the end of the slide according to the proper deck height. With supports plumb pour concrete footings. Allow concrete footing to cure for a minimum of 72 hours before users are allowed to play on the structure.
- 8) Install protective surfacing before users are allowed to play on the structure.

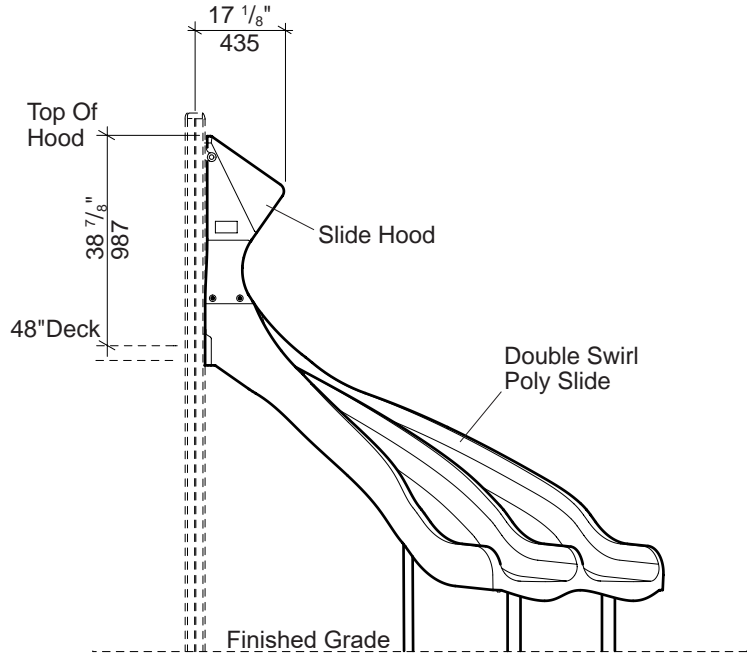
Surface Mount

- 1) Attach the supports to the slide using 3/8" x 1 1/4" BHCS w/pin limited thread bolts, 3/8" flat washers, rubber bushings and 3/8" flat washers. Refer to the Support Detail. **NOTE: Attach bolts in the center of the slots to allow for expansion and contraction. Snug bolts down only, do not overtighten!**
- 2) Attach the slide to the face of the deck using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers. Refer to the Deck Connection Detail.
- 3) Mark anchor bolt locations on concrete slab through holes in anchor plates and disconnect slide from the face of the deck. Drill 1/2" x 3" deep holes on marks into concrete using a hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Reposition slide and reattach to the face of the deck following step 2. Fasten support to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.
- 4) Attach offset bolt brackets to posts using 3/4" O.D. x .390" spacers and 3/8" x 1 1/8" BHCS w/pin with 3/8" flat washers, as shown. Refer to Details.
- 5) Attach the slide hood to the slide using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers.
- 6) Insert 40 7/16" rail through top of hood, place spacer tubes over each end of the 40 7/16" rail and attach to the offset bolt brackets using 5/8" x 2 1/4" BHCS w/pin.
- 7) Install protective surfacing before users are allowed to play on the structure.

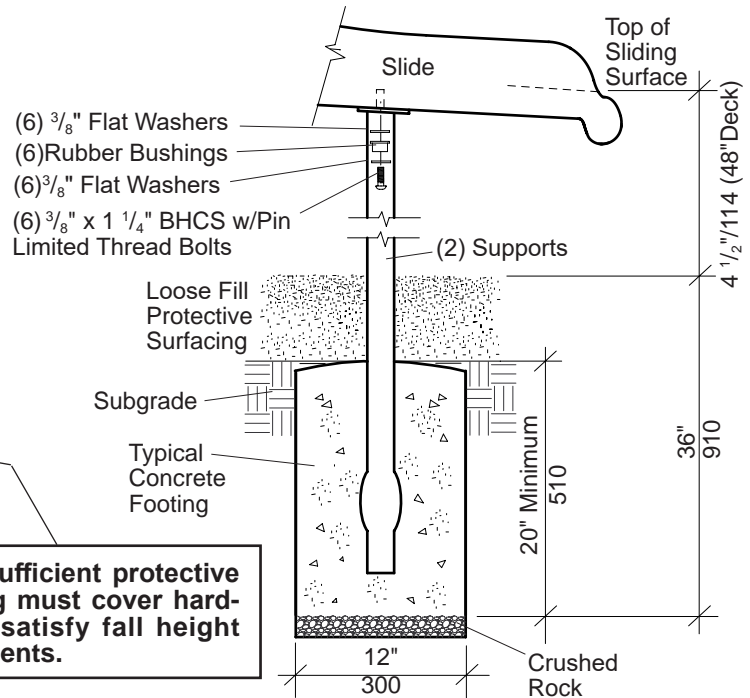
PLAN VIEW/FOOTING LAYOUT



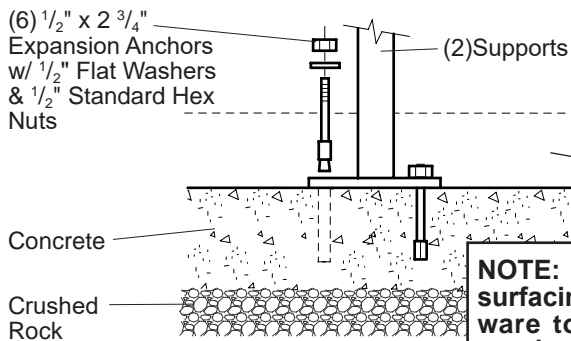
ELEVATION



**DETAIL
 SUPPORT ATTACHMENT**



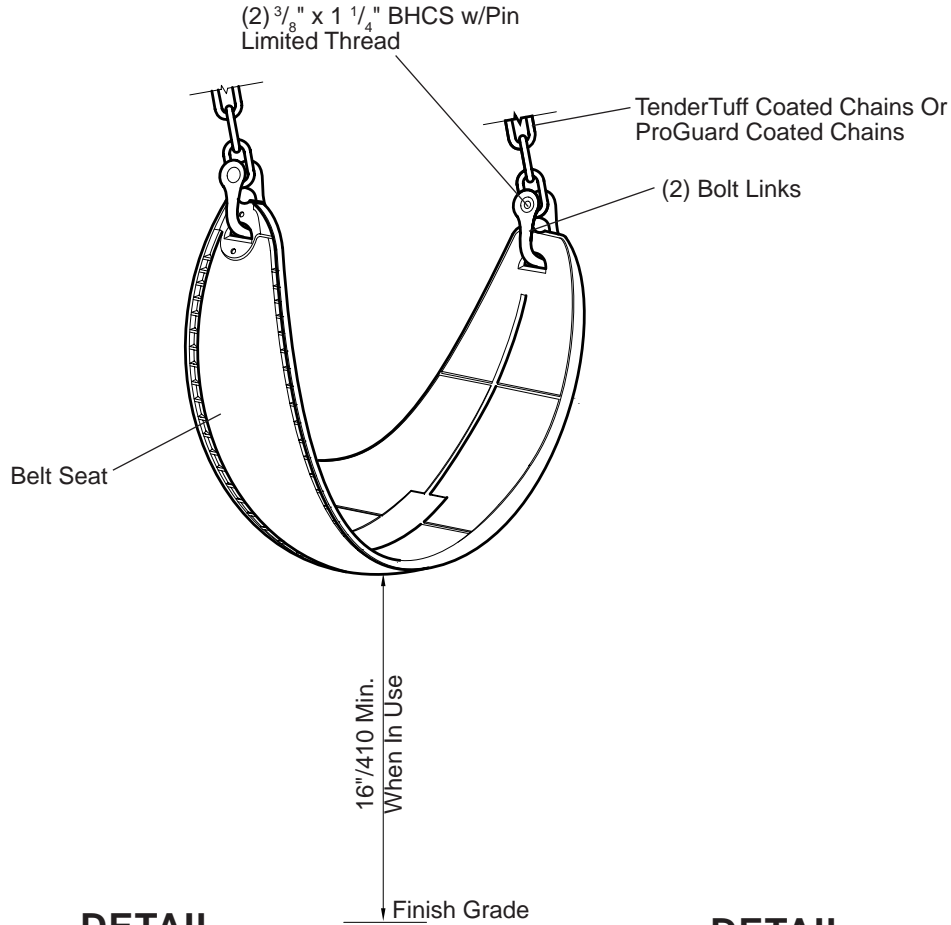
**DETAIL
 SURFACE MOUNT**



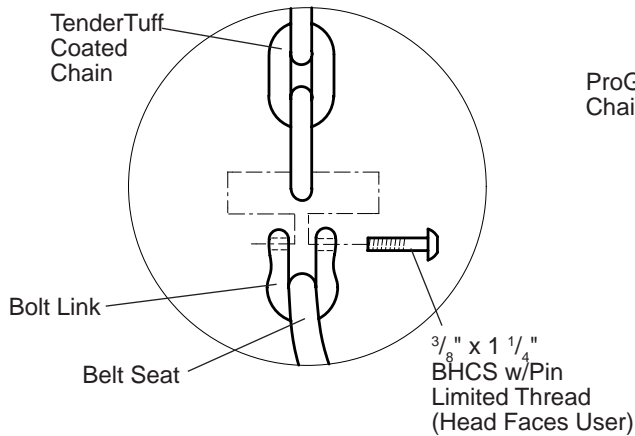
NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.



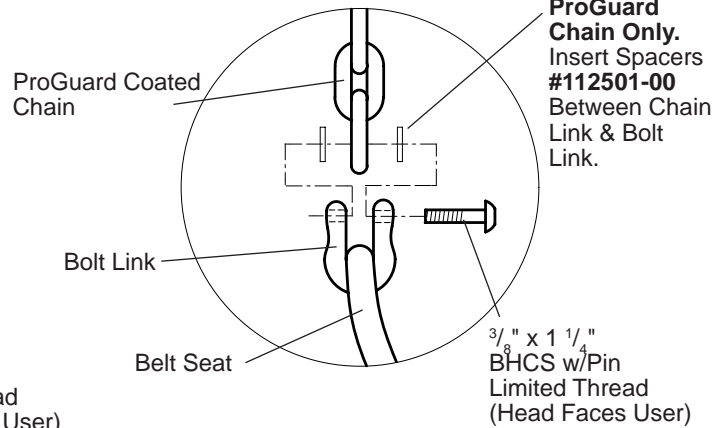
SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



**DETAIL
BOLT LINK**



**DETAIL
BOLT LINK**



Swings

174018 Belt Seat

Parts List

Part #	Description	Qty.
7 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
178679	57 7/16" Chain, TenderTuff, Specify Color.....	2
175251	57 7/16" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292-00	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
8 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
152050	67 7/8" Chain, TenderTuff, Specify Color	2
174404	67 7/8" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
10 Ft. High Beam		
128842	Belt Swing Seat, Black.....	1
152052	90 11/16" Chain, TenderTuff, Specify Color.....	2
174884	90 11/16" Chain, ProGuard.....	2
132672	Bolt Link w/Bolt & Spacers	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2
112501	Chain Spacer.....	4
132635	Bolt Link w/Bolt Hardware Package	1
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	2
138915	Bolt Link, SST.....	2

Specifications

Chain Spacer: Made from white nylon measuring .080" x .785" O.D.

Chain/ProGuard: Steel 3/16" straight link chain, 800 lb. working load limit. Finish: ProGuard.

Chain/Coated: Steel 3/16" straight link chain, 800 lb. working load limit. Finish: TenderTuff®, color specified.

Belt Seats: Molded from U.V. stabilized black EPDM rubber encapsulating a weldment comprised of a 22 GA (.029") spring stainless steel sheet, and (4) .105" thick stainless steel washers. The belt seat elliptical shape measures 7" wide x 26" long x .700" thick.

Bolt Link: Stainless Steel.

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

Installation Time: 1/4 man hour per seat

Weight: 8 lbs. (7 Ft. Beam w/ProGuard Chains)
9 lbs. (7 Ft. Beam w/TenderTuff Chains)
8 lbs. (8 Ft. Beam w/ProGuard Chains)
9 lbs. (8 Ft. Beam w/TenderTuff Chains)
10 lbs. (10 Ft. Beam w/ProGuard Chains)
11 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation

Swing Hangers With Double Clevis

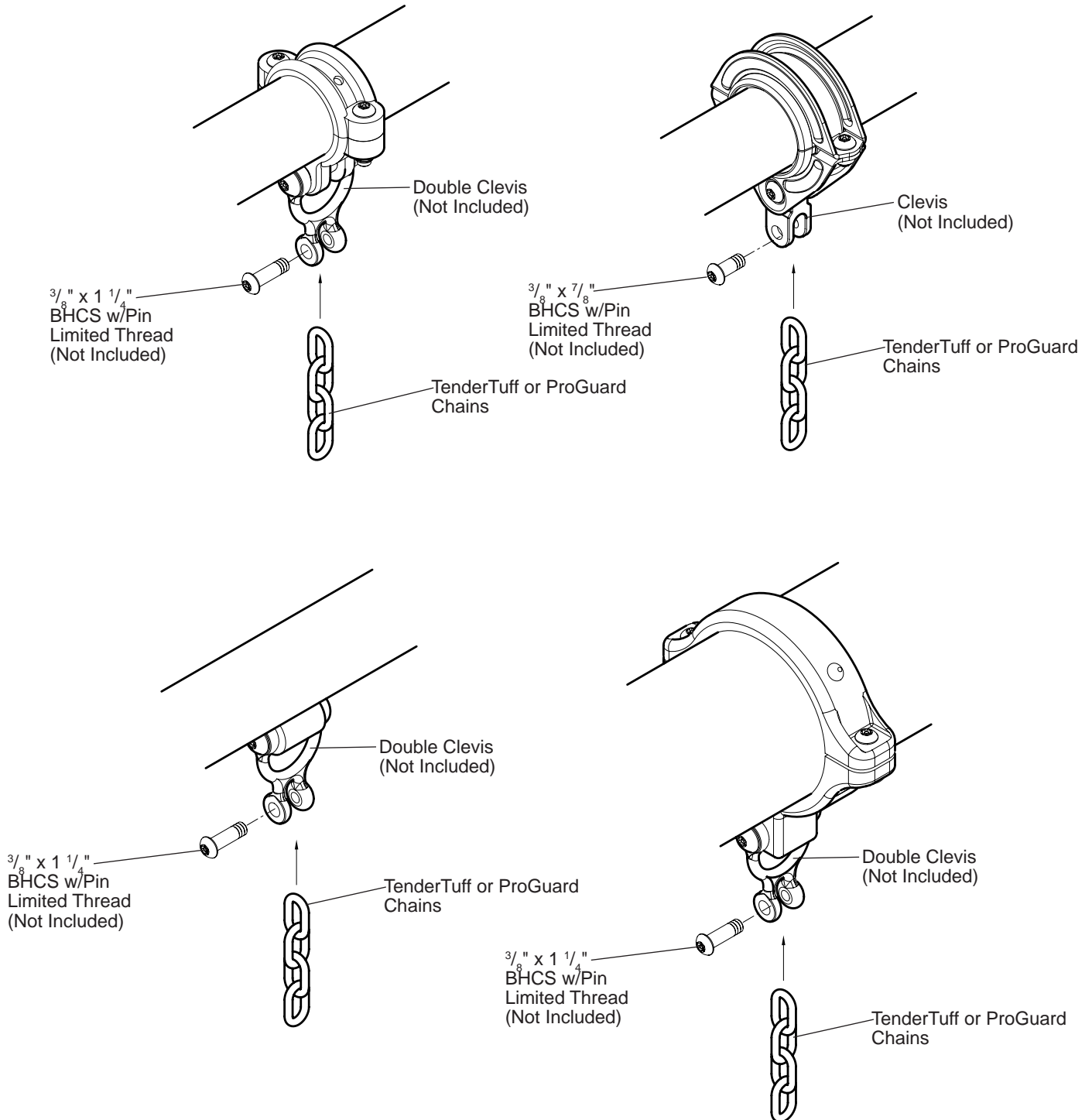
- 1) Attach chains to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

Anti-wrap Swing Hangers

- 1) Attach chains to aluminum clevis using 3/8" x 7/8" BHCS w/pin limited thread, as shown.
- 2) Attach chains to belt seat using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread. Be sure bolt heads face user. **NOTE:** Use chain spacers as shown when installing ProGuard chains.
- 3) Install protective surfacing before users are allowed to play on the structure.

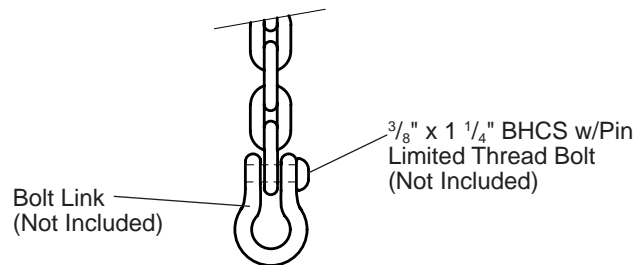
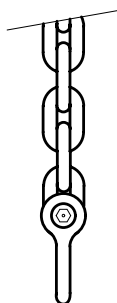
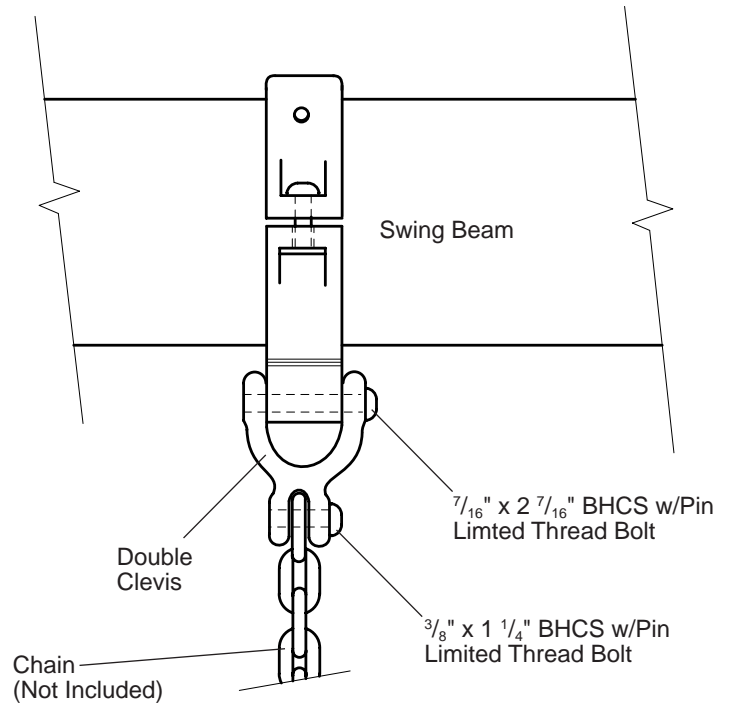
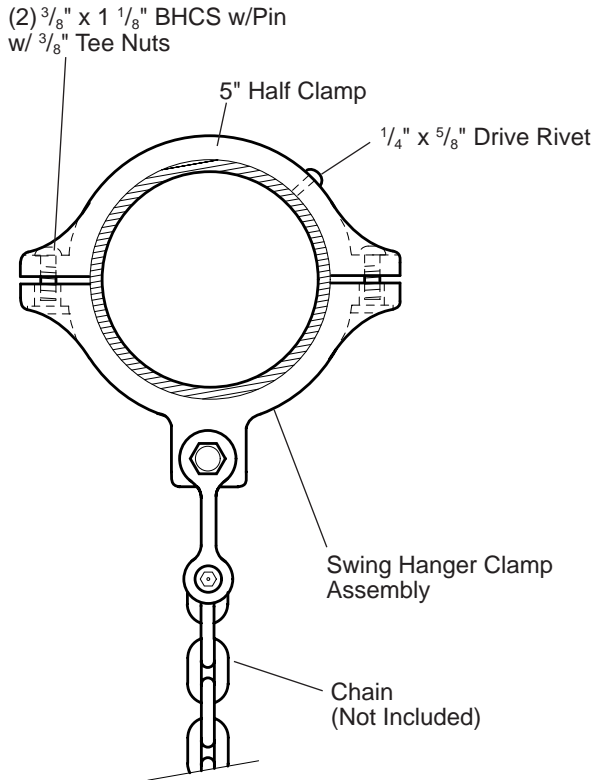


SWING HANGER OPTIONS





SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



NOTE:
Do Not Over-Tighten Limited Thread Bolt! Threads Should Not Protude Past Bolt Link.

NOTE:
Position Bolt Head Inward Facing User.

Swings

111418 Swing Hanger, Belt Swing

Parts List

Part#	Description	Qty.
105327-01	5" Half Clamp, Specify Color	1
100198-00	$\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/Pin, SST	2
100351-00	$\frac{3}{8}$ " Tee Nut, SST.....	2
100610-00	$\frac{1}{4}$ " x $\frac{5}{8}$ " Drive Rivet, AL/SST	1
100292-00	$\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/Pin Ltd. Thread Bolt, SST.....	1
121291-00	Swing Hanger Clamp Assy. Specify Color	1
121289-00	Swing Hanger Clamp, Specify Color	1
127068-00	$\frac{7}{16}$ " x 2 $\frac{7}{16}$ " BHCS w/Pin Ltd. Thread Bolt, SST	1
138917-00	Swing Hanger Double Clevis SST	1
100667-00	Oilite Bushing.....	1

Specifications

Hanger Clamp

Assembly: Cast aluminum. Finish: ProShield®, color specified.

Double Clevis: Stainless Steel.

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

Installation Time: Approx. $\frac{1}{2}$ man hour

Weight: 6 lbs.

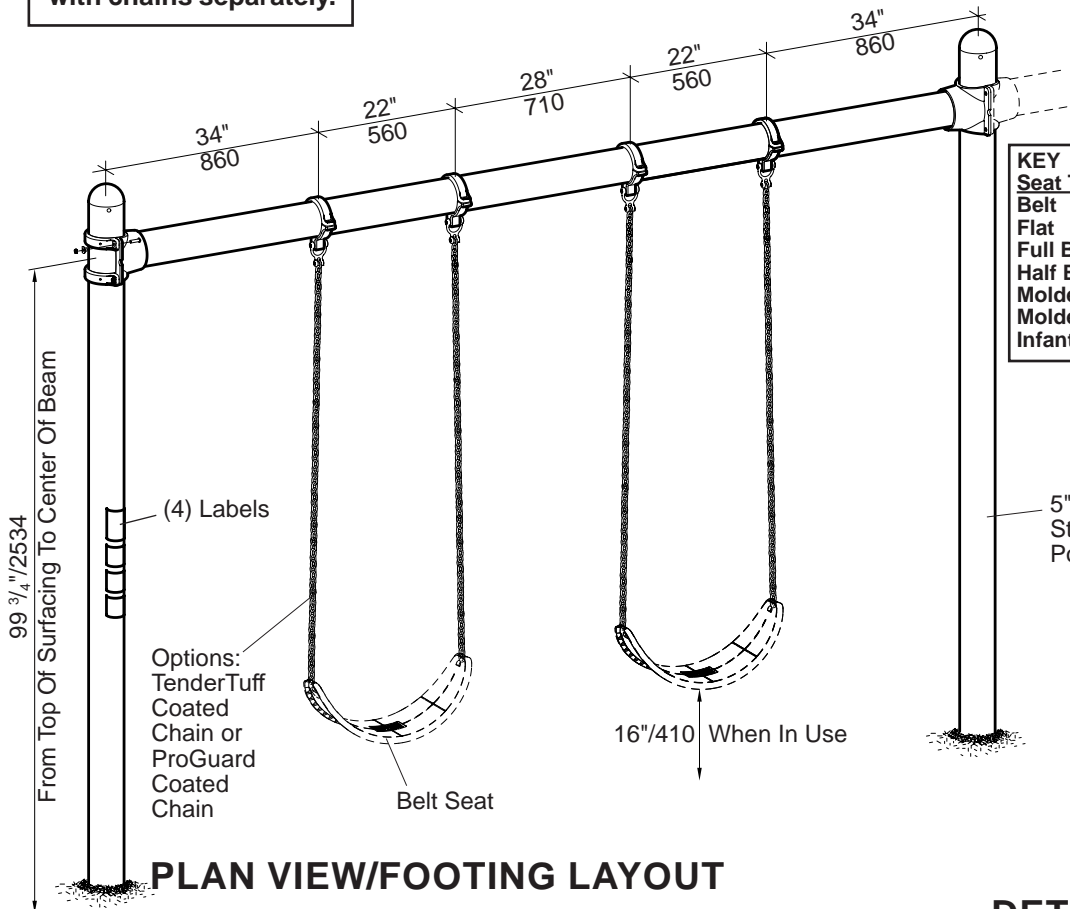
Installation Instructions

- 1) Locate and mark location of clamp on beam.
- 2) Attach 5" half clamp and swing hanger clamp to beam using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " tee nuts. *Tighten evenly.*
- 3) **IMPORTANT:** *Drill through holes in 5" half clamps and into 5" pipe with a $\frac{1}{4}$ " or "F" (only) drill bit, tap $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets through 5" half clamps and into pipe, to ensure that clamps remain secure.*
- 4) Attach swing chain to double clevis using $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts.
- 5) Attach swing seat to chains using bolt links with $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " BHCS w/pin limited thread bolts. **NOTE:** *Do not over-tighten limited thread bolt. Threads should not protrude past bolt link. Position bolt head inward facing user.*



SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

NOTE: Model numbers are for swing frames only, order swing seats with chains separately.

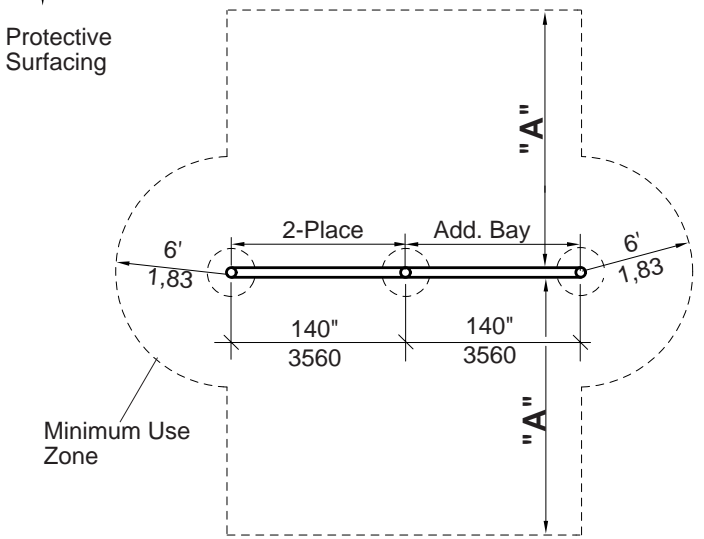
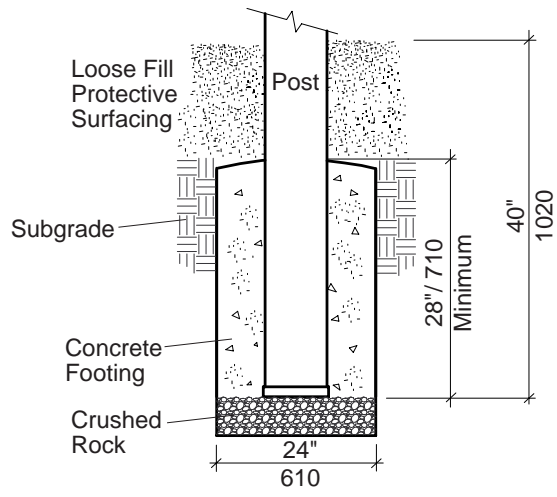


KEY	Dimension "A"
Seat Type	
Belt	16'-0" (4,88 m)
Flat	16'-0" (4,88 m)
Full Bucket	12'-0" (3,66 m)
Half Bucket	16'-0" (4,88 m)
Molded Bucket	16'-0" (4,88 m)
Molded Bucket/Harness	16'-0" (4,88 m)
Infant Full Bucket	N/A

PLAN VIEW/FOOTING LAYOUT

DETAIL

CONCRETE FOOTING



Model #177333 Additional Bay

Swings 177332/177333 Single Post Swing Frame



Swings 177332/177333 Single Post Swing Frame

Parts List

Part#	Description	Qty.	
		2 Pl	Add Bay
216492	Swing Beam, Specify Color	1	1
220966	148" Steel Post Assy., Specify Color.....	2	1
105327	5" Half Clamp, Specify Color	8	4*
100610	1/4X5/8i DRV, Rivet, AS.....	8	8
121291	Swing Hanger Clamp Assy. Specify Color	4	4
121289	Swing Hanger Clamp, Specify Color	4	4
127068	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread, SST	4	4
138917	Swing Hanger Double Clevis	4	4
100667	Oilite Bushing.....	4	4
243802	Hdw Pkg 5iOD Swing Beam.	1	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8	8
234397	BHCS 6LP LTHD 7/16 x 1 11/16i, SSTST	8	8
100292	3/8" x 1 1/4" BHCS w/Pin Ltd. Thread, SST	4	4
100351	3/8" Tee Nut, SST.....	8	8
156846	Play Safe Label, 2-12 Yrs.....	1	1
234937	7/16" D Cut Washer, SST.....	16	16
182213	Hot Surface Warning Label	1	1
182212	Entanglement Warning Label	1	1
115176	Hard Surface Warning Label	1	1
100330	7/16" Nylok Hex Nut	8	8

* = 5" Half Clamps From 2 PL. End Of Beam Need To Be Used.

Specifications

Post: See PlayBooster® (PB) General Specifications.

Swing Beam: Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" wall. Finish: ProShield®, color specified.

Clamp: Cast aluminum. Finish: ProShield,, color specified.

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

Installation Time: **2-Place** - Approx. 6 man hours
Additional Bay - Approx. 3 man hours

Concrete Req.: **2-Place** - Approx. 14 cu. ft.
Additional Bay - Approx. 7 cu. ft.

Area Req: **2-Place** - 24'-1" x 24' (7,3 m x 7,31 m) Full bucket seats.
2-Place - 24'-1" x 32' (7,3 m x 9,75 m) For all other seats.
Additional Bay - 11'-8" x 24' (3,56 m x 7,31 m) Full bucket seats.
Additional Bay - 11'-8" x 32' (3,56 m x 9,75 m) For all other seats.

Weight: **2-Place** - 206 lbs.
Additional Bay - 122 lbs.

Installation Instructions

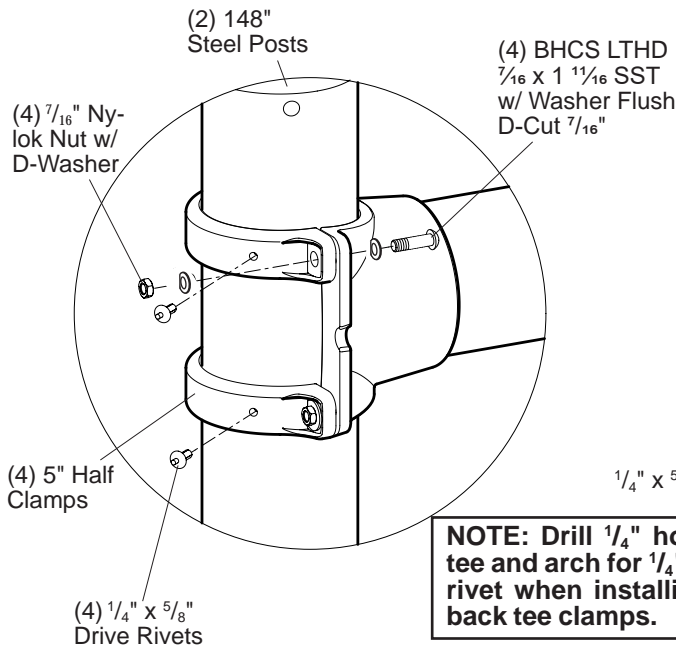
- 1) Dig footings spaced as shown. Refer to Concrete Footing Detail.
- 2) Set posts in footing holes and attach swing beam using 5" half clamps with 7/16" BHCS w/Pin, 7/16" D-Cut Washers, and 7/16" Nylok nuts. Refer to the Swing Beam Attachment Detail. Center of beam should be 99 3/4" above finished grade. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail. **NOTE: Tighten all BHCS w/ pin equally.**
- 3) Level beam and plumb posts and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- 4) Locate, mark and attach swing hanger clamps to beam in locations shown. Refer to the Swing Hanger Clamp Attachment Detail.
- 5) **NOTE: Refer to specific swing seat installation document for attaching chains and seats.**
- 6) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- 7) Apply Play Safe and Warning Labels, as shown.
- 8) Install protective surfacing before users are allowed to play on the swing.

ECO# 0102179 Document 30164000 replaces
24382000 Change to molded seat w/harness use zone

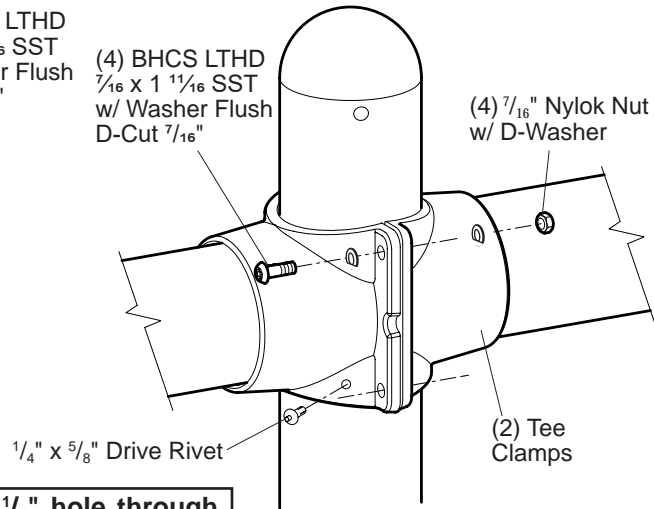


SAFETY NOTE
 Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

**DETAIL
 BEAM ATTACHMENT**



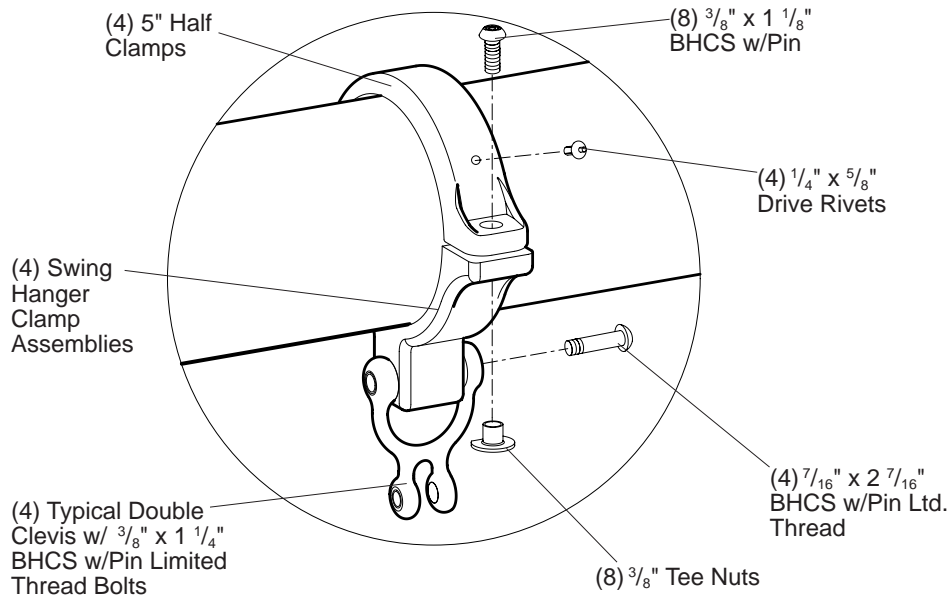
**DETAIL
 BACK TO BACK
 TEE CLAMPS**



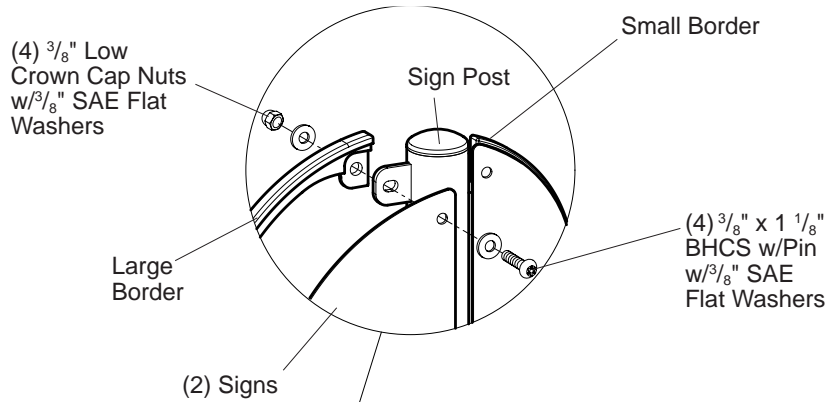
NOTE: Drill 1/4" hole through tee and arch for 1/4" x 5/8" drive rivet when installing back to back tee clamps.

NOTE: Tighten all BHCS w/Pin equally.

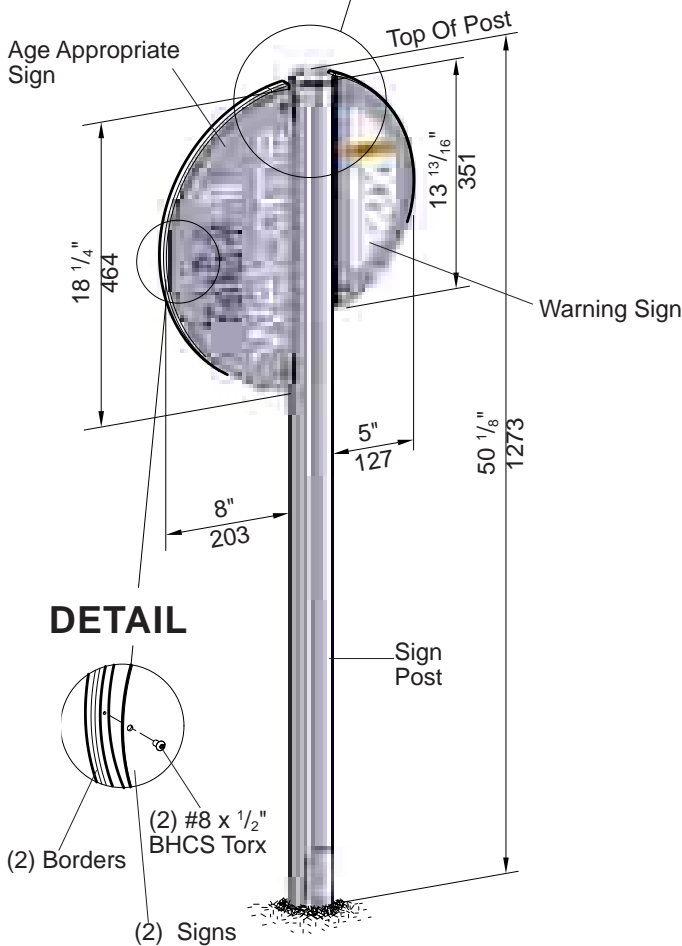
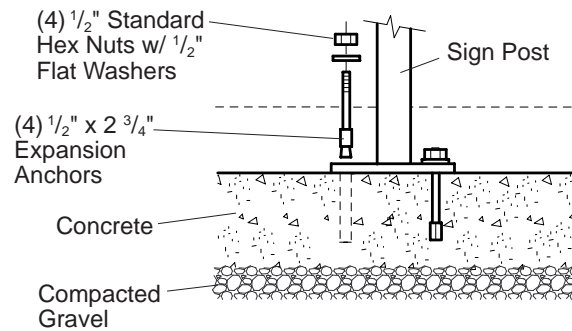
**DETAIL
 SWING HANGER ATTACHMENT**



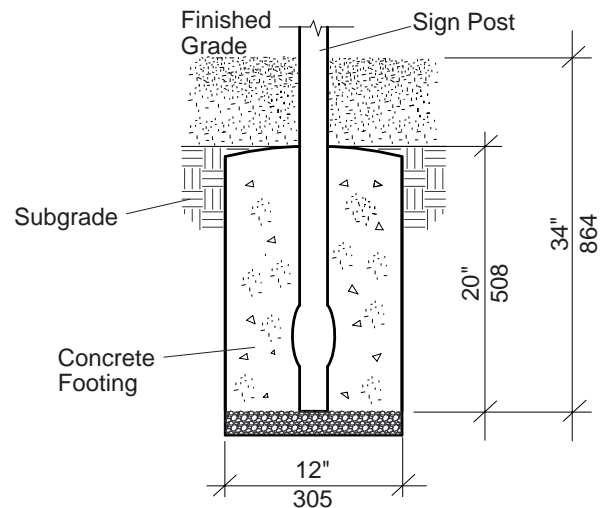
**DETAIL
SIGN ATTACHMENT**



**DETAIL
SURFACE MOUNT**



**DETAIL
DIRECT BURY FOOTING**



Model 182503 - Landscape Structures Provided Welcome Sign
Model 182504 - Welcome Sign

Signs

Welcome Sign

Parts List

Part#	Description	Qty.
219911	Warning Sign, Gray	1
219912	Age Appropriate Sign, 2-12 Years, Gray	*
219913	Age Appropriate Sign, 2-5 Years, Gray	*
219914	Age Appropriate Sign, 5-12 Years, Gray	*
219915	Age Appropriate Sign, 1 1/2-5 Years, Gray	*
219916	Age Appropriate Sign, 1 1/2-12 Years, Gray	*
219918	Age Appropriate Sign, 6-23 Months, Gray	*
180598	Sign Post (DB), Specify Color	*
181119	Sign Post (SM), Specify Color	*
193782	Large Border, Black	1
193783	Small Border, Black	1
213258	Age/Warning Sign Hardware Package	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	4
100349	3/8" Low Crown Cap Nut, SST	4
100365	3/8" SAE Flat Washer, SST	8
168323	#8 x 1/2" BHCS Torx, SST	2
169413	1/4-6 Lobe T-15 Tamp. Bit	1
121348	4 Hole (SM) Hardware Package	1
100266	1/2" x 2 3/4" Expansion Anchor	4
100322	1/2" Standard Hex Nut, SST	4
100363	1/2" Flat Washer, SST	4

DB = Direct Bury

SM = Surface Mount

* = Quantity Determined By Your Order

Specifications

Sign Panel: Panel is fabricated from 1/8" (.125")(3,17 mm) aluminum plate. Finish: ProShield®, gray in color. **(Sign)** Digital image is transferred to a 1/8" (.125")(3,17 mm) ProShield coated aluminum plate, then infused into the ProShield.

Border: Permalene, black in color.

Post: Weldment comprised 2.375" (60,33 mm) O.D. RS20 (.095-.105) (2,41 mm-2,67 mm) wall galvanized tube, 1/4" (6,35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

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

Installation Time: **(DB)** Approx. 1 man hour
(SM) Approx. 1/2 man hour

Concrete Req: Approx. 1.31 cu. ft.

Weight: **(DB)** - 24 lbs.
(SM) - 27 lbs.

Installation Instructions

Direct Bury

- 1) Dig footing hole to depth and diameter shown.
- 2) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 3) Set sign assembly in footing hole and temporarily brace in plumb position.
- 4) Pour concrete footing. After concrete has cured, remove bracing.

Surface Mount

- 1) Attach sign panels and borders to post as shown, using 3/8" x 1 1/8" BHCS with 3/8" SAE flat washers and 3/8" low crown cap nuts with 3/8" SAE flat washers. Attach signs to borders using #8 x 1/2" BHCS Torx.
- 2) With sign in proper position, using a 1/2" masonry bit and hammer drill, drill 3" deep holes into concrete slab through holes in post plate. Tap 1/2" x 2 3/4" expansion anchors into holes and secure using 1/2" standard hex nuts with 1/2" flat washers.

Material Specifications

Quote: MEO23211 PlayShaper® (2-5 years)
3/1/2023

Material Specifications:

111364A

Loop Ladder 48"Dk DB

Handhold Panel: Permalene, color specified.

Loop Ladder: Weldment comprised of 1.125" (28,58 mm) O.D. x 11 GA (.120") (3,04 mm) black steel tubing. Finish: TenderTuff, color specified.

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

135346D

Pod Climber 40"Dk DB

Panel: Permalene, color specified.

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

Disc: Rotationally molded from U.V. stabilized linear low-density polyethylene, disc measures 14" (356 mm) in diameter x 7" (178 mm) high, color specified.

Handloop: Weldment comprised of 1.125" (28,58 mm) O.D. x 11 GA (.120") (3,04 mm) steel tubing with 203 or 303 stainless steel inserts, with 3/8" (9,53 mm) internal thread. Finish: TenderTuff, color specified.

Handrail: Weldment comprised of 1.125" (28,58 mm) O.D. x 11 GA (.120") (3,04 mm) steel tubing with 203 or 303 stainless steel welded inserts with 3/8" (9,53 mm) internal threads. Finish: TenderTuff, color specified.

Support: Weldment comprised of 1.900" (48,26 mm) O.D. RS-20 (.090" - .100") (2,28 mm-2,54 mm), 1.315" (33,40 mm) O.D. RS-20 (.080" - .090") (2,03 mm-2,28 mm) and 3/16" x 5" (4,75 mm x 127 mm) diameter plate. Finish: ProShield, color specified.

143200A

Conical Climber DB

Belt: PVC belting, 5/16" (7,92 mm) thick, 300 PIW tension rating.

Center Loop: Weldment comprised of 1.315" (33,40 mm) O.D. RS-20 (.080" - .090") (2,03 mm-2,28 mm) galvanized steel tubing, 1/4" x 1 1/4" (6,35 mm x 31,75 mm) HR flat steel and 1/4" x 2 3/4" (6,35 mm x 69,85 mm) HR flat steel. Finish: ProShield, color specified.

Footer: Fabricated from 1.125" (28,58 mm) O.D. x 11 GA (.120") (3,04 mm) galvanized steel tubing. Finish: ProShield, color specified.

Hand Grip: Made from Polyester Resin. Hand Grips measure 5 3/4" (146,05 mm) long x 2 1/2" (63,5 mm) wide x 1 3/4" (44,45 mm) high.

Mounting Plate: Fabricated from 1/8" (3,17 mm) HR flat steel. Finish: ProShield, green in color.

Rails: Weldment comprised of 1.315" (33,40 mm) O.D. RS-20 (.080" - .090") (2,03 mm-2,28 mm) galvanized steel tubing, and 1/4" x 1 1/4" (6,35 mm x 31,75 mm) HR flat steel. Finish: ProShield, color specified.

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

Handhold Panel: Recycled Permalene, color specified.

No Material Spec for 017916A

111239A

Square Deck Extension

Square Deck Extension: Flange formed from 12 GA (.105") (2,66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7,92 mm) diameter holes. Deck face has (6) slotted holes for face mounting components. The finished size measures 2 5/8" x 42" x 44 3/8" (66,68 mm x 1067 mm x 1127,13 mm). Finish: TenderTuff, color specified.

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

117495A

Triangular Tenderdeck

Triangular Deck: Flange formed from 12 GA (.105") (2,66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7,92 mm) diameter holes. Deck face has (6) slotted holes for face mounting components. The finished size of two of the three sides measures 2 5/8" x 39 1/4" (66,68 mm x 996,95 mm) on the face of the deck and the other side measures 2 5/8" x 55 1/2" (66,68 mm x 1409,7 mm). Finish: TenderTuff, color specified.

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

153020C

Curved Transfer Module 48"Dk Left DB

Step Support: Weldment comprised of 1.660" (42,16 mm) O.D. RS-20 (.080" - .095") (2,03 mm-2,41 mm) galvanized steel tubing and 1 3/4" x 1 3/4" x 1/8" (44,45 mm x 44,45 mm x 3,17 mm) HR angle. Finish: ProShield, color specified.

Step Sections/Top Step Section: Formed from 12 GA (.105") (2,66 mm) HRPO sheet steel conforming to ASTM A1011. Standing surface is 24 3/8" (619,13 mm) wide x 14" (355,6 mm) deep and is perforated with 5/16" (7,92 mm) diameter holes. Finish: TenderTuff, color specified.

Railings: Weldment comprised of formed 1 1/8" (28,58 mm) O.D. x 11 GA (.120") (3,04 mm) steel tubing, 5/8" (15,88 mm) O.D. steel rod, 3/16" (4,75 mm) thick HRPO flat steel, 3/16" (4,75 mm) thick HRPO steel plate and 3/4" (19,05 mm) O.D. x 11 GA. (.120") (3,04 mm) stainless steel tubing. Finish: TenderTuff, color specified.

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

Panels: Permalene, color specified.

Deck Support: Weldment comprised of 3 1/2" (88,9 mm) O.D. RS-20 (.125") (3,17 mm) galvanized steel tubing and 3/8" (9,53 mm) O.D. x 5" (127 mm) long CRS rod. Finish: ProShield, color specified.

Deck: Flange formed from 12 GA (.105") (2,66 mm) HRPO sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7,92 mm) diameter holes and measures 29" (737 mm) per (2) sides. Finish: TenderTuff, color specified.

179362A

Tri-Deck Kick Plate 8"Rise

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

Kick Plate: Fabricated from 11 GA (.120") (3,04 mm) HR flat steel.
Finish: TenderTuff, brown or gray in color.

111293A

Tic-Tac-Toe Panel Above Deck

Shafts: Fabricated from 1/2" (12,7 mm) diameter 203 stainless steel with ends tapped 5/16" (7,92 mm) 18UNC-2B.

Tic Tac Toe Blocks: Rotationally molded from U.V. stabilized linear low-density polyethylene, yellow in color with brown molded-in symbols.

Tic Tac Toe Bracket: Formed from .125" (3,17 mm) thick 5052 aluminum.
Finish: ProShield, color specified.

Permalene Panel: Panel measures 39 1/2" (1003,3 mm) wide x 30" (762 mm) high, color specified.

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

117946B

Wire Barrier w/Wheel Above Deck

Wheel: 12" (305 mm) diameter cast A319.1 aluminum alloy. Shaft-303 stainless steel. Finish: TenderTuff, color specified.

Wheel Bracket: Weldment comprised of formed 3/16" (4,75 mm) plate and 5/8" (15,88 mm) O.D. shaft. Finish: ProShield, tan in color.

Barrier: Weldment comprised of 1 1/8" (28,58 mm) O.D. steel horizontal rails with 203 or 303 stainless steel welded inserts with 5/8" (15,88 mm) internal threads, 1/4" x 1 1/4" (6,35 mm x 31,75 mm) HRPO flat steel and 1/4" (6,35 mm) diameter wire. Barrier measures 39 1/4" (996,95 mm) wide x 30 13/16" (782,62 mm) high. Finish: TenderTuff, color specified.

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

117946A

Wire Barrier Above Deck

Wire Bracket: 3/16" (4,74 mm) Thick HRPO flat steel. Finish: ProShield®, black in color.

Barrier: Weldment comprised of 1 1/8" (28,58 mm) O.D. steel horizontal rails with 203 or 303 stainless steel welded inserts with 5/8" (15,88 mm) internal threads, 1/4" x 1 1/4" (6,35 mm x 31,75 mm) HRPO flat steel and 1/4" (6,35 mm) diameter wire. Barrier measures 39 1/4" (996,95 mm) wide x 30 13/16" (782,62 mm) high. Finish: TenderTuff, color specified.

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

144984A

Storefront Panel

Store Panel: One-color Permalene, color specified.

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

184868A

Ball Maze Panel

Ball: 1/2" (12,7 mm) diameter, SST.

Cover: Made from .177" (4,50 mm) thick x 18 5/16" (465,12 mm) diameter clear polycarbonate.

Permalene Panel: Two color panel measures 39 1/2" (1003,3 mm) wide x 30" (762 mm) high, color specified.

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

115201A

LW Post 10"Panel DB

Post: See PlayShaper (PS) General Specifications.

111397C

106"Post DB

Post: See PlayShaper (PS) General Specifications.

111397B

114"Post DB

Post: See PlayShaper (PS) General Specifications.

111397A

128"Post DB

Post: See PlayShaper (PS) General Specifications.

182503A

Welcome Sign (LSI Provided) Ages 2-5 years Direct Bury

Border: Permalene, black in color.

Sign Panel: Panel is fabricated from 1/8" (.125")(3,17 mm) aluminum plate. Finish: ProShield®, gray in color. (Sign) Digital image is transferred to a 1/8" (.125")(3,17 mm) ProShield coated aluminum plate, then infused into the ProShield.

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

Post: Weldment comprised 2.375" (60,33 mm) O.D. RS20 (.095-.105) (2,41 mm-2,67 mm) wall galvanized tube, 1/4" (6,35 mm) HRPO steel sheet and aluminum post cap. Finish: ProShield, color specified.

178768A

Double Swirl Slide 48"Dk DB

Mid-Support: Weldment comprised of 1.660" (42,16 mm) O.D. RS-20 (.085" - .095") (2,16 mm-2,41 mm) galvanized steel tubing and 1/4" x 3" (6,35 mm x 76 mm) mounting plate. Finish: ProShield, color specified.

Rail: Extruded from 1.125" ((28,58 mm) O.D. x .312" (7,92 mm) wall. 6005-T5 aluminum. Finish: ProShield, color specified.

Slide Hood: Rotationally molded from U.V. stabilized linear low-density polyethylene, color specified.

Slide Support: Weldment comprised of 2.375" (60,33 mm) O.D. RS-20 (.095" - .105") (2,41 mm-2,66 mm) galvanized steel tubing and 1/4" x 3" (6,35 mm x 76 mm) mounting plate. Finish: ProShield, color specified.

Offset Bolt Bracket: Cast aluminum. Finish: ProShield, color specified.

Slide: Rotationally molded from U.V. stabilized linear low-density polyethylene, color specified.

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

Rail Spacer: Fabricated from 1.312" (33,32 mm) O.D. x 16 GA (.065") (1,65 mm) steel tubing. Finish: ProShield, color specified.

100626A

30" Galvanized Stake

Stake: Made from 3/4" (19,05 mm) diameter x 30" (762 mm) long shaft. Finish: Dacromet.

119214A

Tuff-Timber 4'

Stake: Made from 3/4" (19,05 mm) diameter x 30" (762 mm) long shaft. Finish: Dacromet.

TuffTimber: Blow-molded from U.V. stabilized 25% recycled/reclaimed linear high-density polyethylene. Walls are minimum .080" (2,03 mm) thick x 4" (102 mm) wide x 12" (305 mm) high x 4'-4" (1321 mm) long, black in color.

174018A

Belt Seat ProGuard Chains for 8' Beam Height

Chain/ProGuard: Steel 3/16" (4,75 mm) straight link chain, 800 lb. (362,87 kilograms) working load limit. Finish: ProGuard.

Belt Seat: Molded from UV stabilized black EPDM rubber encapsulating a weldment comprised of a 22 GA (.029") (0,74 mm) spring stainless steel sheet and (4) .105" (2,67 mm) thick stainless steel washers. The belt seat elliptical shape measures 7" (178 mm) wide x 26" (660 mm) long x .700" (17,78 mm) thick.

Bolt Link: Stainless Steel

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

177332A

Single Post Swing Frame 8' Beam Height Only

Post: See PlayBooster (PB) General Specifications.

Half Clamp: Cast aluminum. Finish: ProShield, color specified.

Beam: Weldment comprised of tee clamps and 5" O.D. extruded 6005-T5 aluminum alloy tube with a .125" wall. Finish: ProShield®, color specified.

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

Landscape Structures Inc. ("Manufacturer") warrants that all playstructures and/ or equipment sold will conform in kind and in quality to the specifications manual for the products identified in the Acknowledgment of Order and will be free of defects in manufacturing and material. Manufacturer further warrants:

100-YEAR LIMITED WARRANTY

On all PlayBooster® and PlayShaper® aluminum posts, stainless steel fasteners, clamps, beams and caps against structural failure due to corrosion/natural deterioration or manufacturing defects, and on PlayBooster steel posts against structural failure due to material or manufacturing defects.

15-YEAR LIMITED WARRANTY

On all Evos® and Weevos® steel arches, all plastic components (including TuffTimbers™ edging), all aluminum and steel components not covered above, Mobius® climbers, Rhapsody® Outdoor Musical Instruments, decks and TenderTuff™ coatings (except Wiggle Ladders, Chain Ladders and Swing Chain) against structural failure due to material or manufacturing defects.

10-YEAR LIMITED WARRANTY

On concrete products against structural failure due to natural deterioration or manufacturing defects. Does not cover minor chips, hairline cracks or efflorescence.

8-YEAR LIMITED WARRANTY

On Aeronet® climbers and climbing cables against defects in materials or manufacturing defects.

5-YEAR LIMITED WARRANTY

On Rhapsody® cables and mallets against defects in materials or manufacturing defects, on polycarbonate panels against defects in materials or manufacturing defects, and on bamboo panels against delamination due to defects in materials or manufacturing defects. Does not cover damage which may be associated with the natural characteristics of bamboo aging, including but not limited to discoloration, splitting, cracking, warping or twisting, nor the formation of algae, mold and other forms of fungal-type bodies on bamboo.

3-YEAR LIMITED WARRANTY

On all other parts, i.e.: Pulse® products, all swing seats and hangers, Mobius climber handholds, Wiggle Ladders, Chain Ladders and ProGuard™ Swing Chain, Track Ride trolleys and bumpers, all rocking equipment including Sway Fun® gliders, belting material, HealthBeat® resistance mechanism, Seesaws, etc., against failure due to corrosion/ natural deterioration or manufacturing defects.

The environment near a saltwater coast can be extremely corrosive. Some corrosion and/or deterioration is considered "normal wear" in this environment. Product installed within 500 yards (457 meters) of a saltwater shoreline will only be covered for half the period of the standard product warranty, up to a maximum of five years, for defects caused by corrosion. Products installed in direct contact with saltwater or that are subjected to salt spray are not covered by the standard warranty for any defects caused by corrosion.

This warranty does not include any cosmetic issues or wear and tear from normal use of the product, or misuse or abuse of the product. It is valid only if the playstructures and/or equipment are erected to conform with Landscape Structures' installation instructions and maintained according to the maintenance procedures furnished by Landscape Structures Inc.



IPEMA

INTERNATIONAL
PLAY EQUIPMENT
MANUFACTURERS
ASSOCIATION



IPPEA STIP 2014 CERTIFICATE OF COMPLIANCE

Issue DATE: March 2, 2017
Requested By: [Name]
Product: [Name]

In the course of product approval, IPEMA provides a full range of compliance services covering IPPE 2014 Annex 1 and 2
providing independent verification of the IPPE Parts of Annex 1 and 2 for the use of
Playground Safety Standard IPPE 2014 Annex 1 and 2.

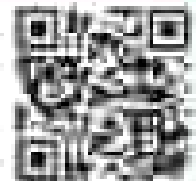
The manufacturer shall take full responsibility for compliance with IPPE 2014 Annex 1 and 2 and shall be held liable for
any non-compliance with IPPE 2014.

Model / Commercial Name of Product	Product Line	IPPE Part Manufactured
[Name]	[Name]	[Name]





IPEMA INTERNATIONAL
PUMP EQUIPMENT
MANUFACTURERS
ASSOCIATION



IPEMA ASTM F1501-11 (SECTION 1.0) LIQUOR ASTM F1501-11 CERTIFICATE OF COMPLIANCE

Issue Date: March 2, 2022

Prepared By: Gianni Pavesi

Project No: 01808

In the absence of (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) (180) (181) 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The manufacturer hereby certifies that the product complies with the requirements of ASTM F1501-11, Section 1.0 (under ASTM F1501-11)

This certificate is valid for the product as described in the attached documents, and is not valid for any other product. The manufacturer is not responsible for any damage or injury caused by the use of the product. The manufacturer is not responsible for any damage or injury caused by the use of the product.

MODEL	COMMERCIAL NAME OF PRODUCT	PRODUCT LAW	TRADE MANUFACTURER
1	Flowing Pumped Delivery	Regulation Delivery	12 / 12 Flowing Pumped Delivery

IPEMA

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IPEMA



National "Standard of Care" Performance Requirements and Specifications for Engineered Wood Fiber to be used as a Playground Safety Surfacing

The Engineered Wood Fiber should meet or exceed

1. CPSC Guidelines
2. IPEMA Certification Requirements
3. Impact Attenuation ASTM F-1252.13
4. Sieve analysis ASTM F-2075.15a
5. Heavy Metals ASTM F-2075.15a
6. Tramp Metals ASTM F-2075.15a
7. ADA Accessibility ASTM F1951-14b Wheel Chair Accessibility
8. CPSIA 2008 (Consumer Product Safety Improvement Act of 2008)
9. Carry \$15 million in Product Liability Insurance
10. Be 100% natural, renewable, and green
11. Have a 15 year Limited Warranty
12. All test results must be in writing and from a certified test lab.
13. Supplier will certify all Engineered Wood Fiber being supplied will be from same manufacturing facility as the attached test data.





Playground Surfacing

15 YEARS PERFORMANCE LIMITED WARRANTY

This limited warranty applies to the DUNNING PLAYGROUND SURFACING Material known as PLAYGROUND SAFETY SURFACING.

PLAYGROUND SAFETY SURFACING is warranted by DUNNING PLAYGROUND SURFACING to the original purchaser to meet or exceed Playground Safety Guidelines of U.S. Consumer Product Safety Commission published in 1991 using ASTM Standard F1287-96 for a period of fifteen (15) years from the installed date of delivery subject to the conditions and exclusions listed below.

WARRANTY MATERIAL REPLACEMENT ONLY

The entire liability of DUNNING PLAYGROUND SURFACING and the Purchaser's sole remedy in the event the PLAYGROUND SAFETY SURFACING does not conform to the Limited Warranty shall be limited to replacement of any defective material and shall not include removal, installation or consequential damages or any refund.

SITE INVALIDATING WARRANTY

Incorrect installation (including failure to provide adequate drainage), failure to install all material delivered, failure to maintain a minimum depth of 12" use of the Material with other products not provided by DUNNING PLAYGROUND SURFACING, abnormal use, lack of or improper maintenance, or vandalism shall void the Limited Warranty and DUNNING PLAYGROUND SURFACING shall have no responsibility with respect to damage or loss resulting there from.

In addition, changed impact absorption characteristics created by sand or other materials tracked into the System are not covered by this Warranty.

DISCLAIMER

DUNNING PLAYGROUND SURFACING disclaims all other Warranties expressed or implied, including but not limited to implied Warranties of fitness or merchantability and fitness for a particular purpose.

In no event shall DUNNING PLAYGROUND SURFACING or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, costs for personal injury or property damage or other pecuniary loss) arising out of the use or inability to use the Material, even if DUNNING PLAYGROUND SURFACING has been advised of the possibility of such loss. Because some states do not allow the exclusion of limitations of liability for consequential or incidental damages, the above limitation may not apply to you.

Acceptance of the Material shall constitute acceptance of the terms of this LIMITED WARRANTY.

860-677-1616



1000 Dunning Road, Memphis, TN 38117

Gilberta Price (800) 670-3222

www.DunningPlaygroundSurfing.com

GPrice@DunningInc.com

Playground Surfacing

We supply the highest quality, most economical and fully
IPEMA Certified Engineered Wood Fiber

Please note, not only do we have the best Playground Safety Surfacing available,

it also carries the most complete product certification and specifications:

1. Our Safety Surfacing is fully IPEMA Certified Engineered Wood Fiber and meets or exceeds all ASTM (F-1292-13, F-2075-13, F-2833-14), CPSC and ADA guidelines.
2. Additionally our Safety Surfacing is certified to conform to the requirements of CPSIA 2008 (Consumer Product Safety Improvement Act of 2008).
3. More importantly, our Safety Surfacing has also been tested to and exceeds the ASTM F1951-14 Wheel Chair Accessibility standard required by the ADA law.
4. It is also a 100% natural, renewable, green and a safe product.
5. Comes with \$10 million in Product Liability Insurance.
6. Comes with a written 15 year Limited Warranty.
7. And finally, our prices include everything; we have no hidden or additional charges for fuel or freight!

To inquire more about our products or to receive a FREE
quote Please call us at 860-670-3222

Thank you for your consideration - we look forward to assisting you! Best Regards,

Gilberta Price

Account Specialist

Providing Quality materials Since 1917

