



A **PLAYCORE** Company
1-800-235-2440

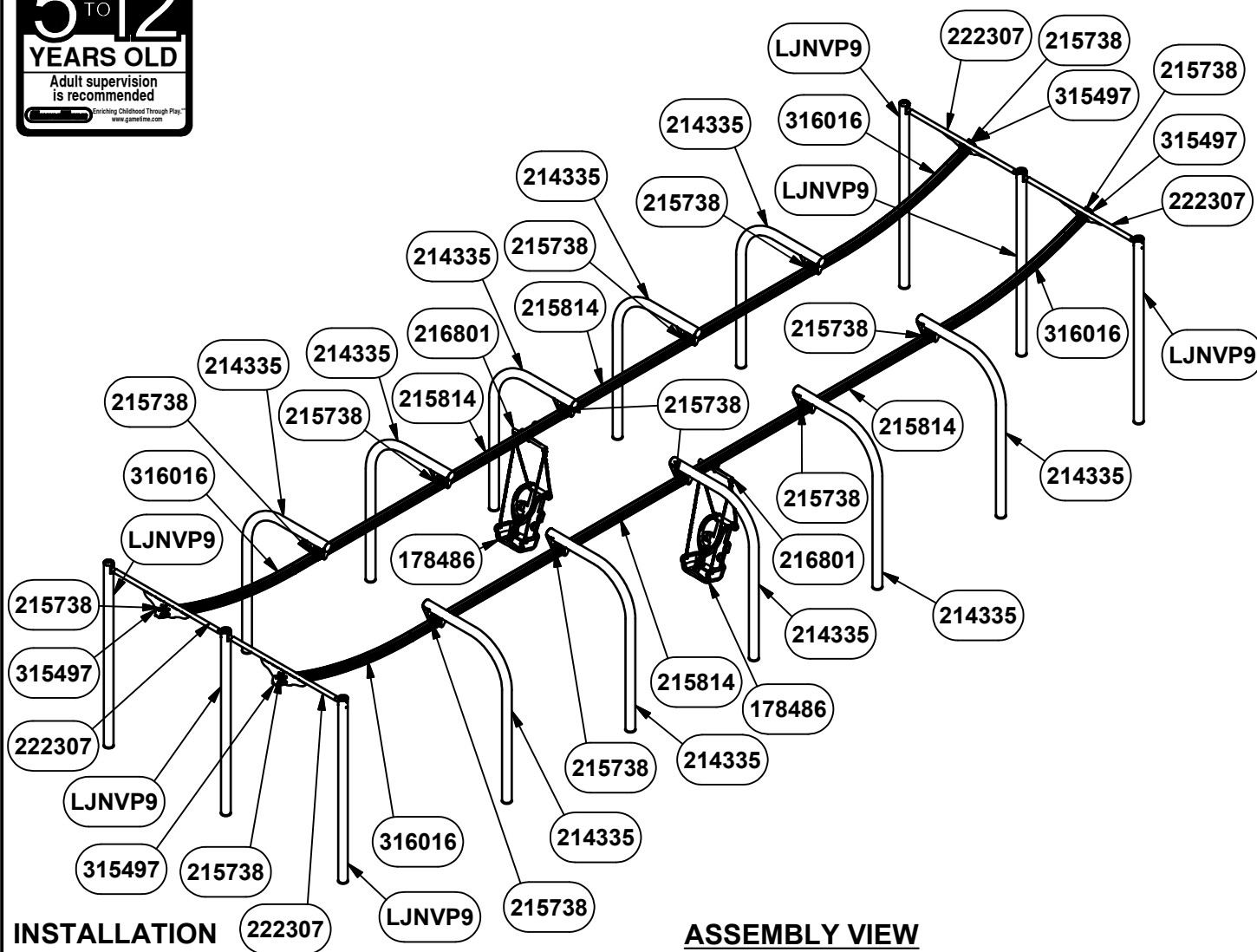
91783

SKYRUN ZIP TRACK DOUBLE 50FT

ISSUED/REVISED: 7/3/2024



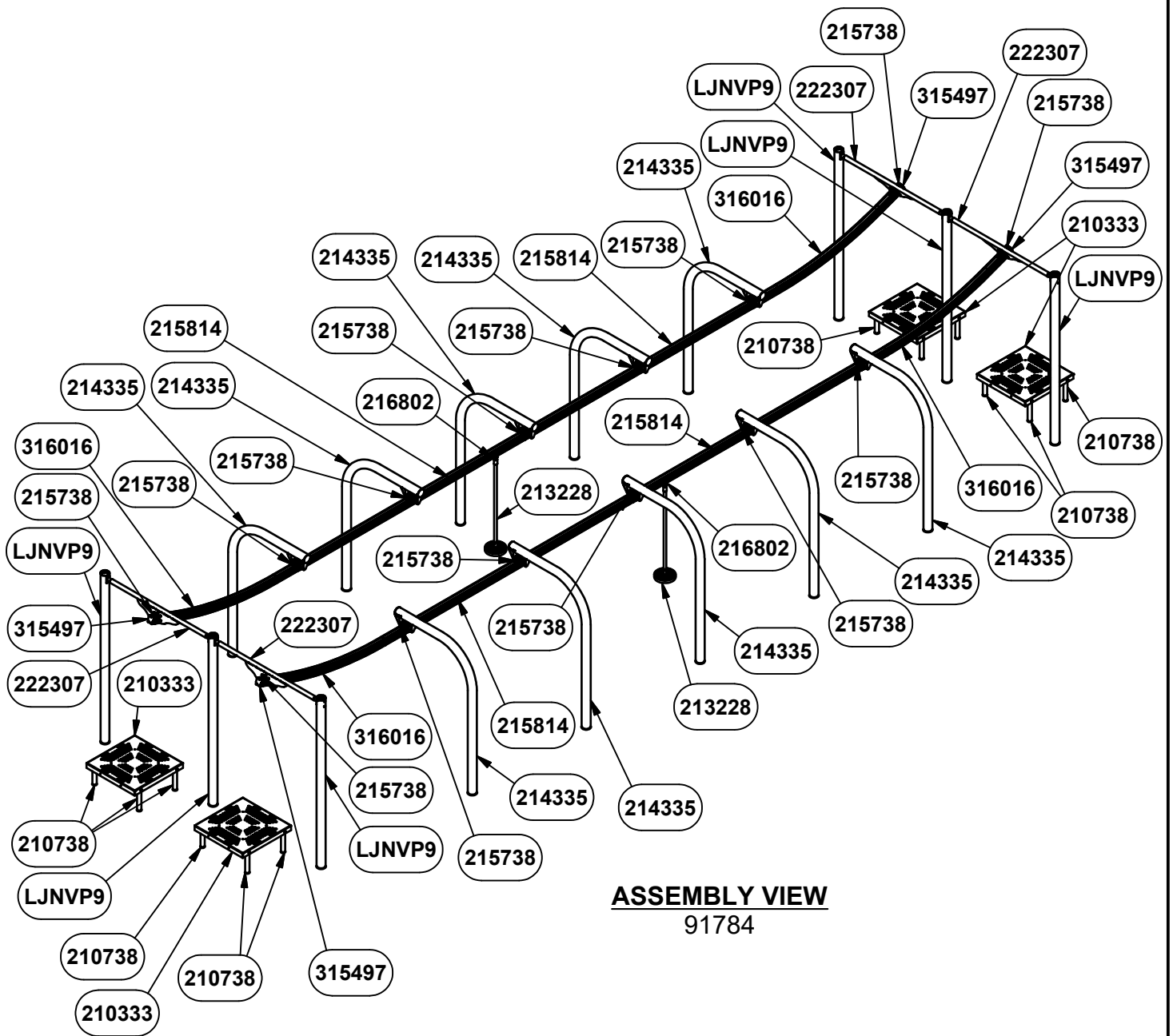
ZERO G SEAT 91783
ZIP SEAT 91784
ZERO G & ZIP SEAT 91863



INSTALLATION INSTRUCTIONS

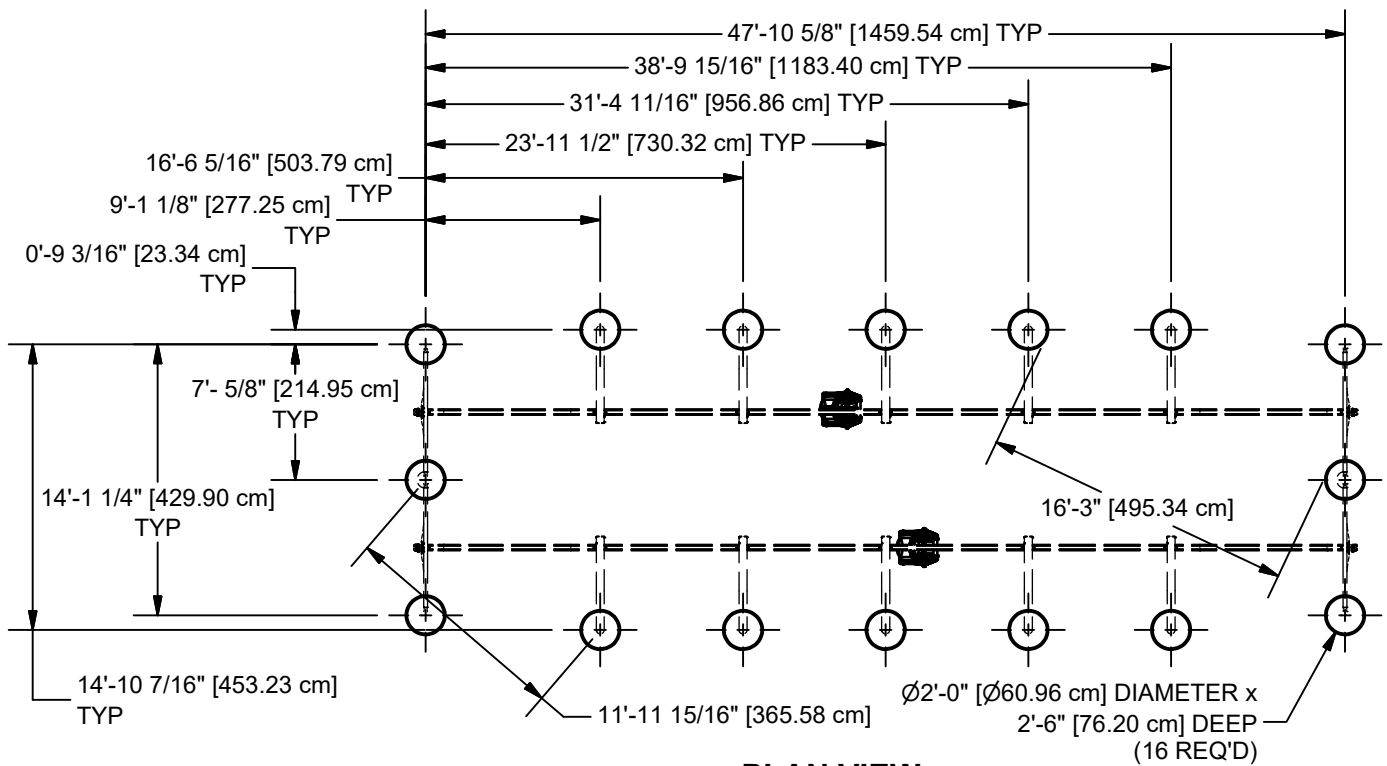
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

ASSEMBLY VIEW 91783



ASSEMBLY VIEW
91784

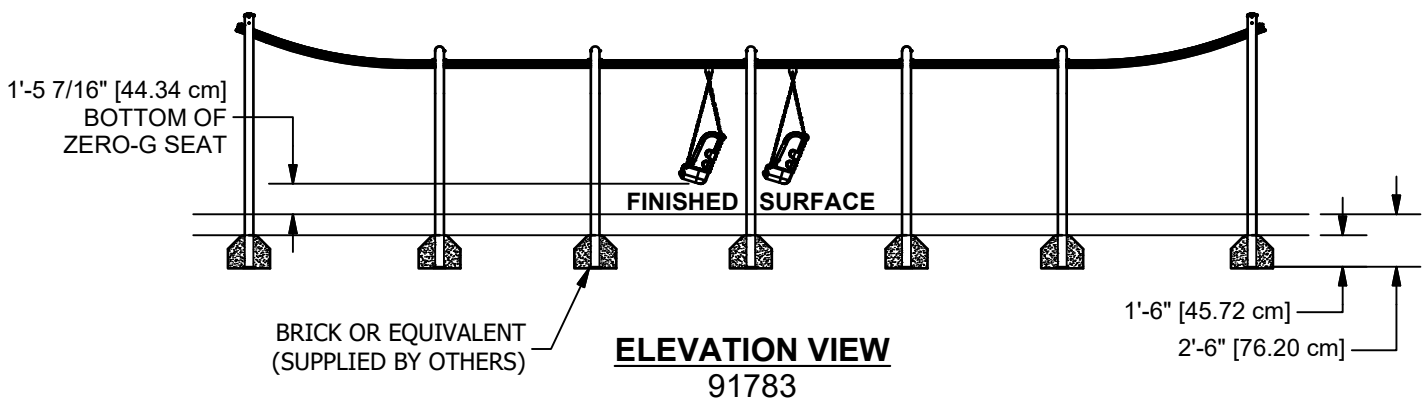




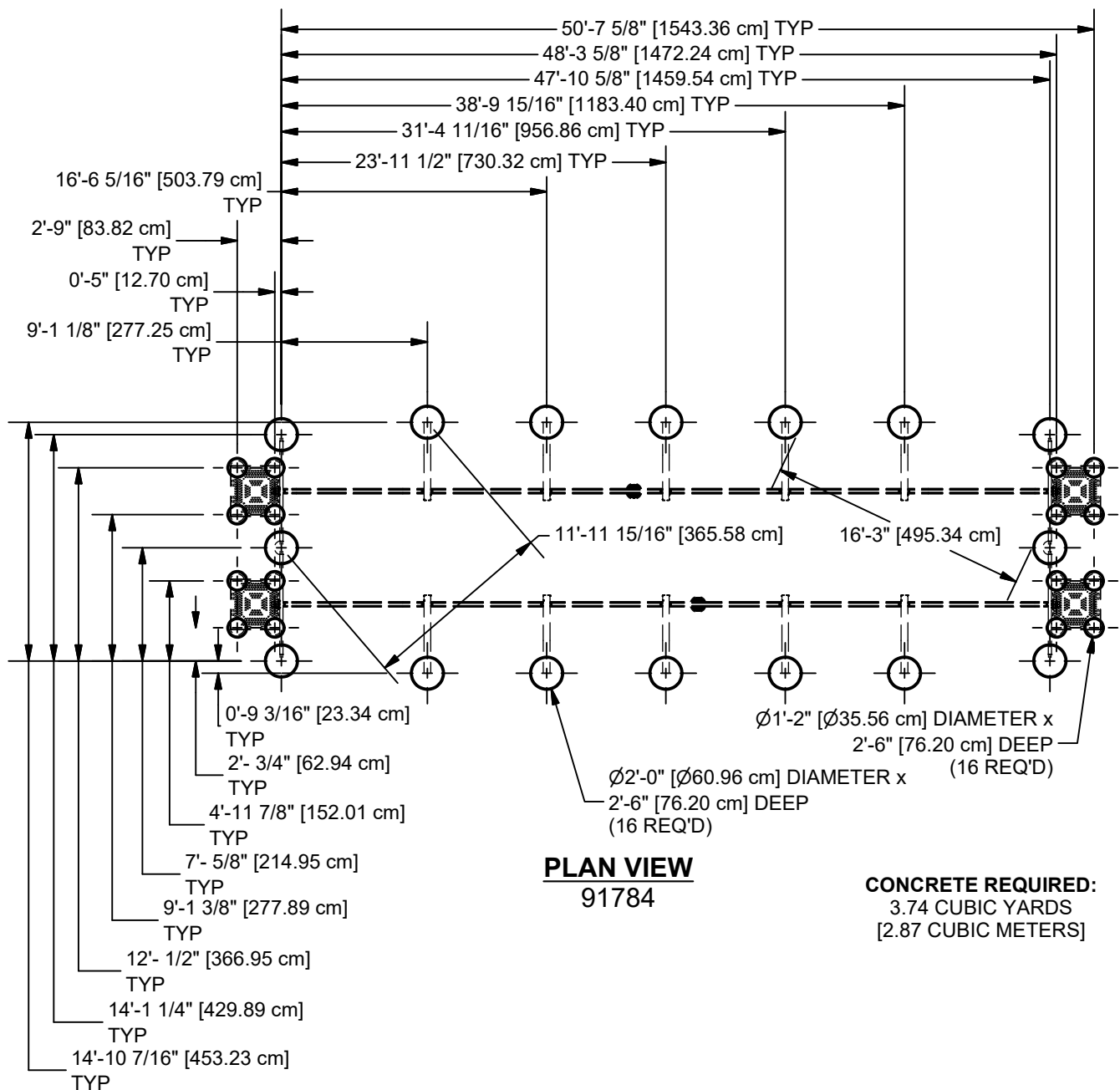
PLAN VIEW
91783

NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

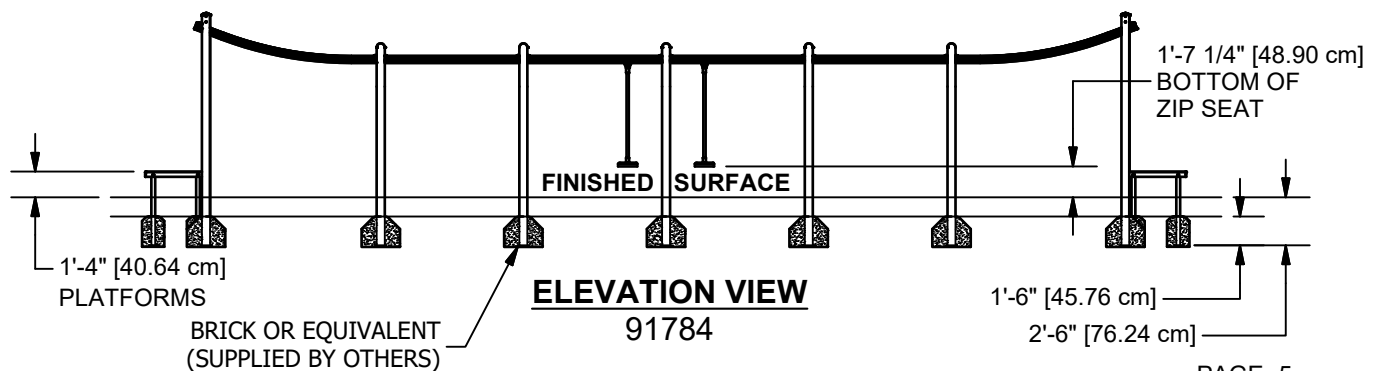
CONCRETE REQUIRED:
2.79 CUBIC YARDS
[2.14 CUBIC METERS]

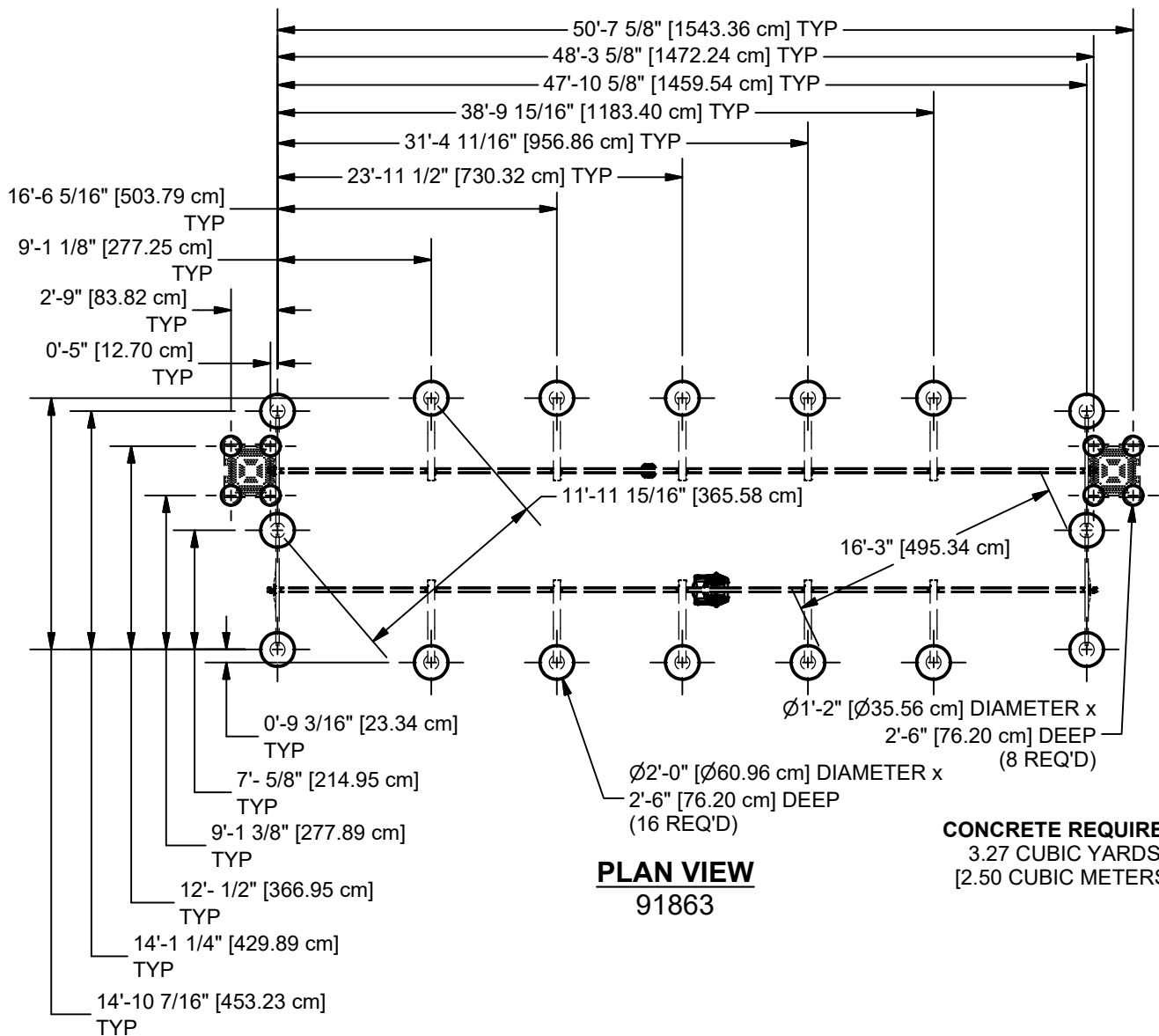


ELEVATION VIEW
91783



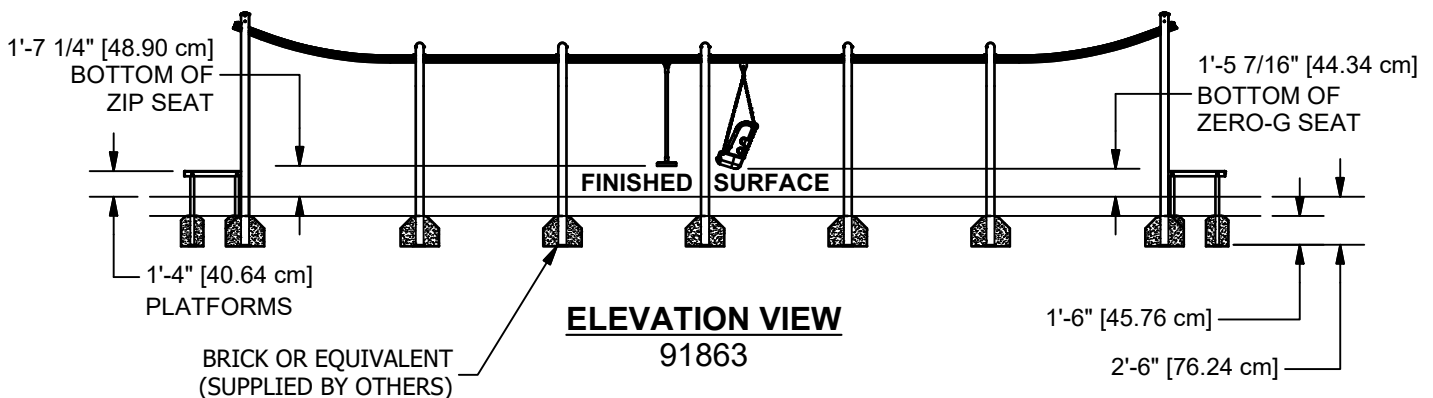
NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

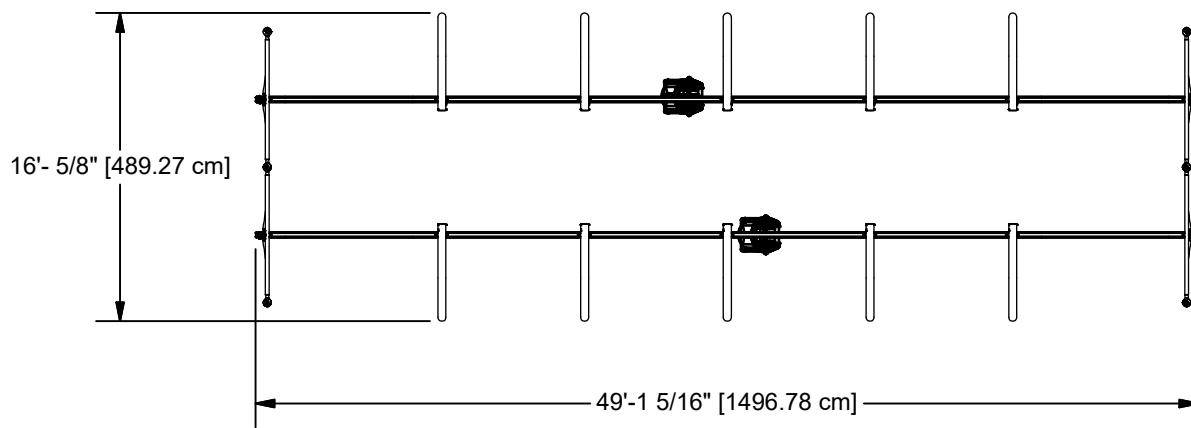




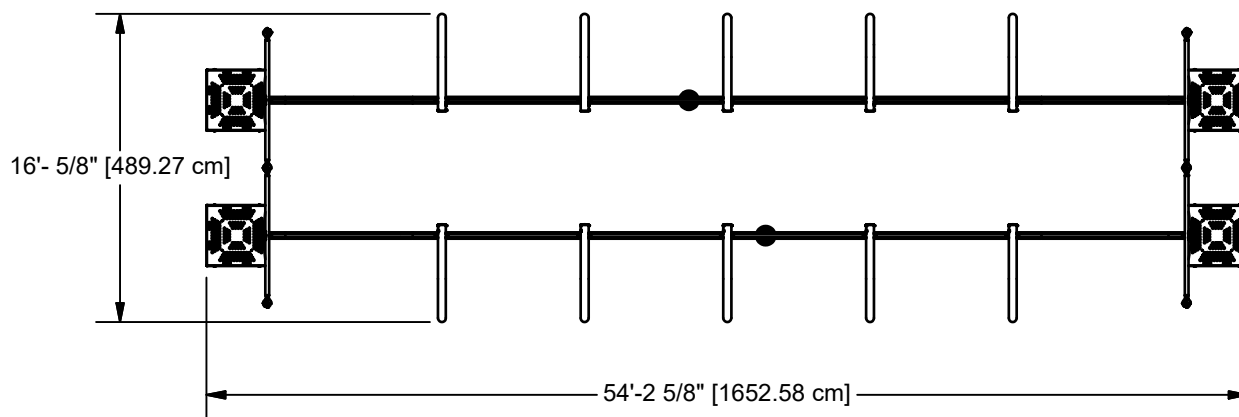
PLAN VIEW
 91863

NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

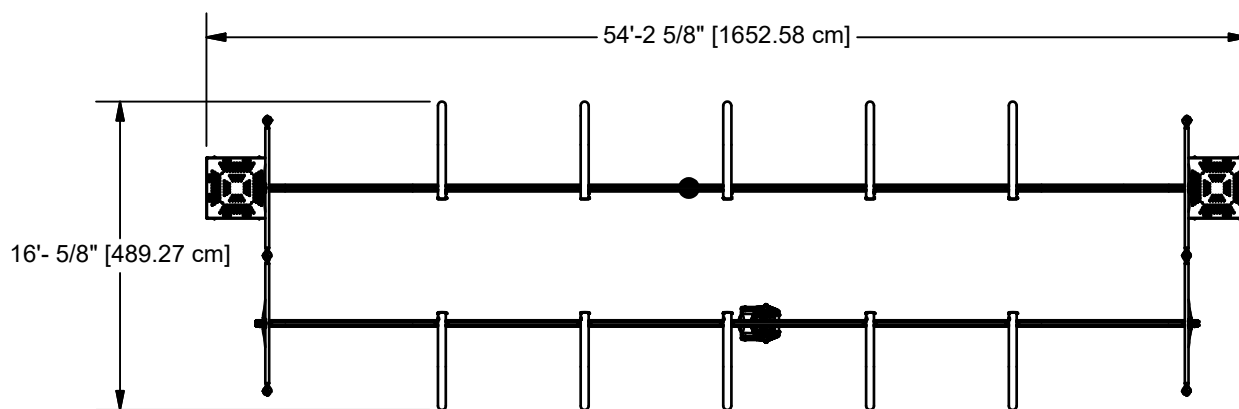




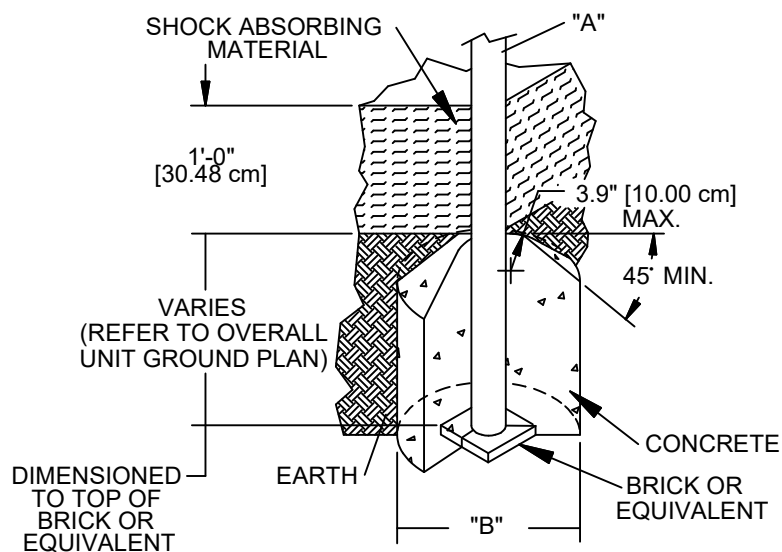
TOP VIEW
91783



TOP VIEW
91784



TOP VIEW
91863



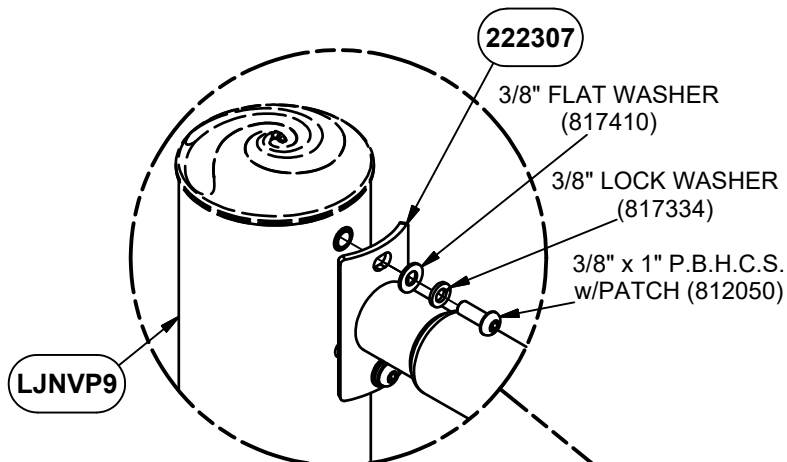
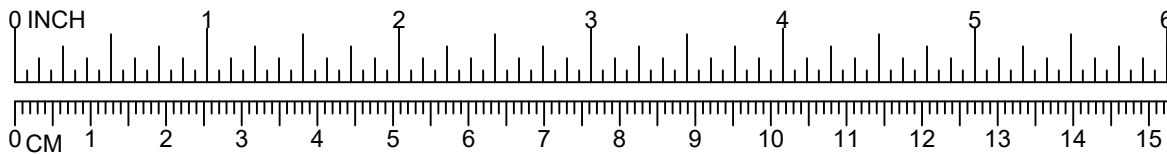
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

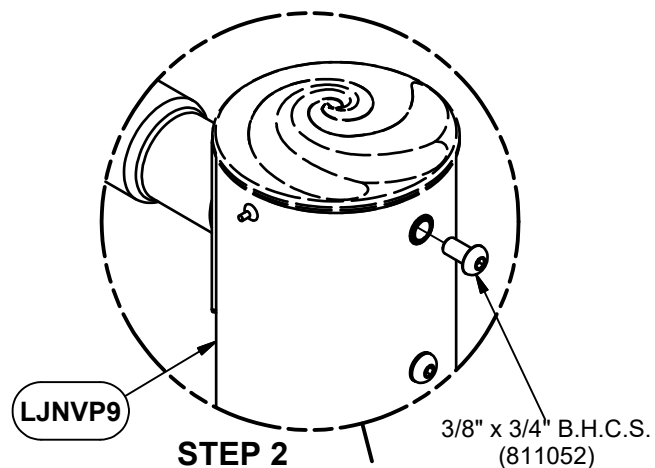
SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

FOOTING DETAIL



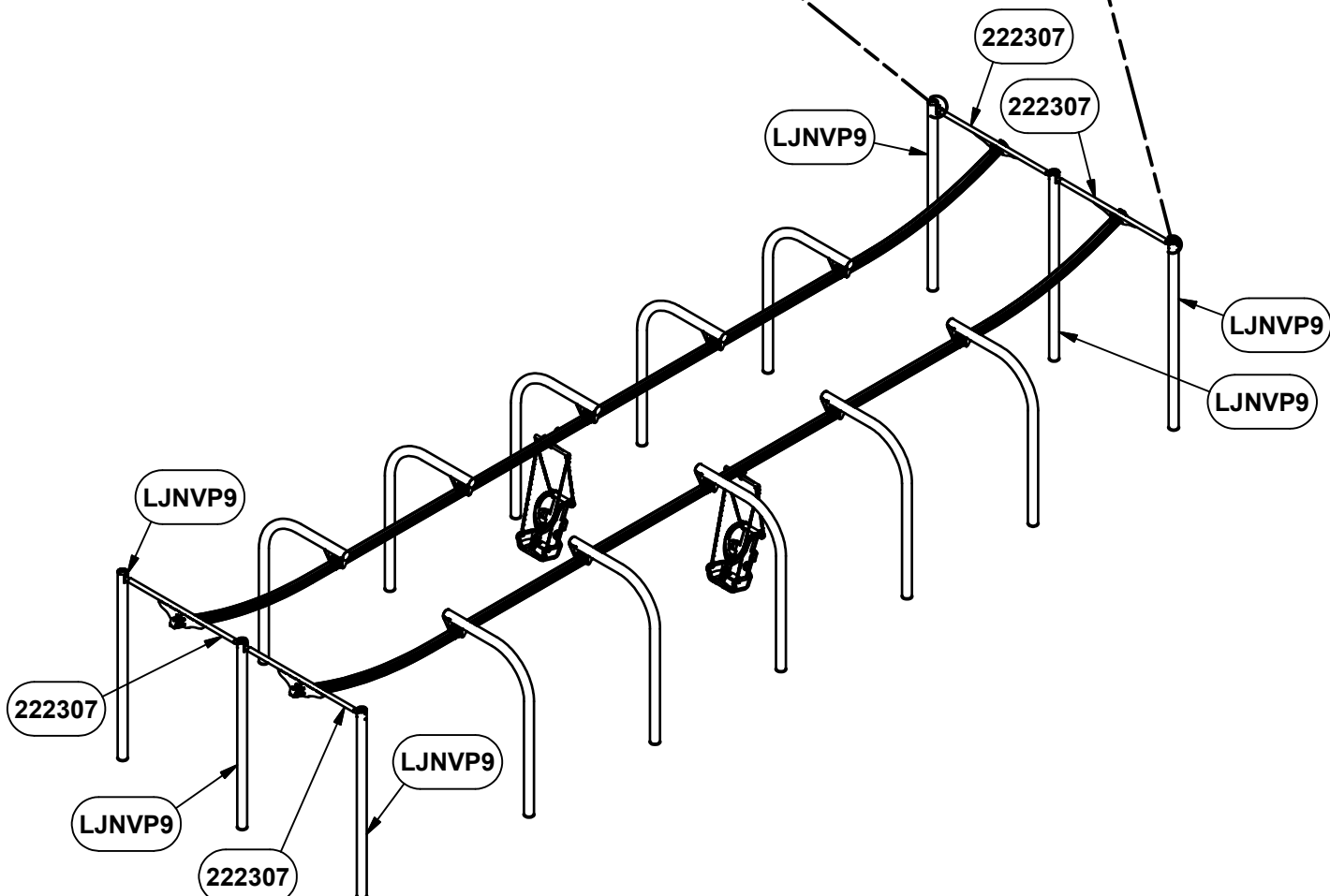
STEP 1

91783 - 16 PLACES
91784 - 16 PLACES
91863 - 16 PLACES



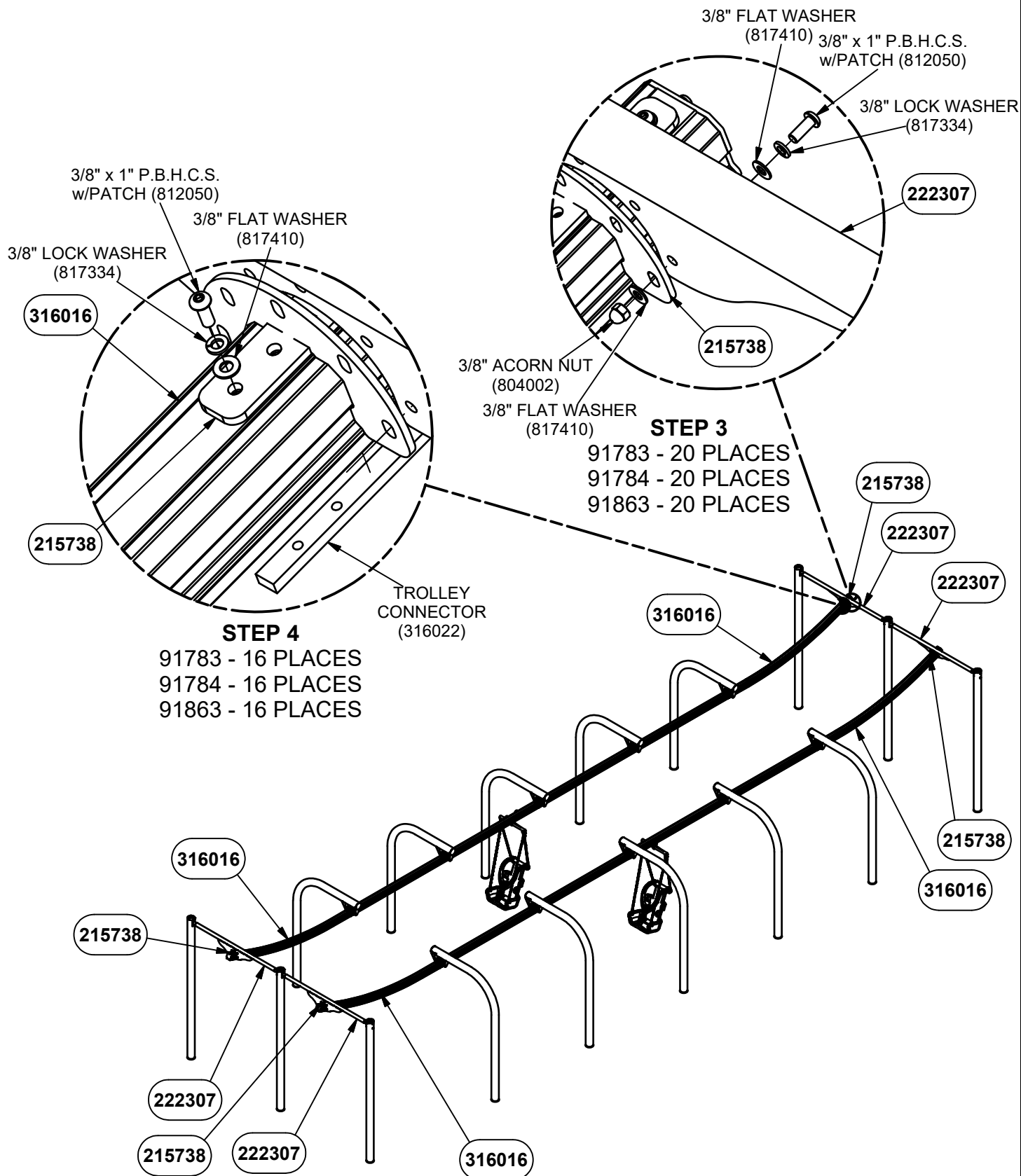
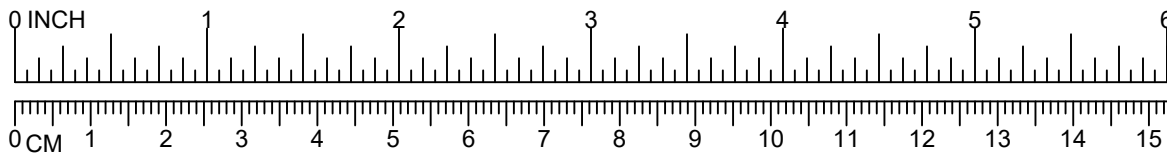
STEP 2

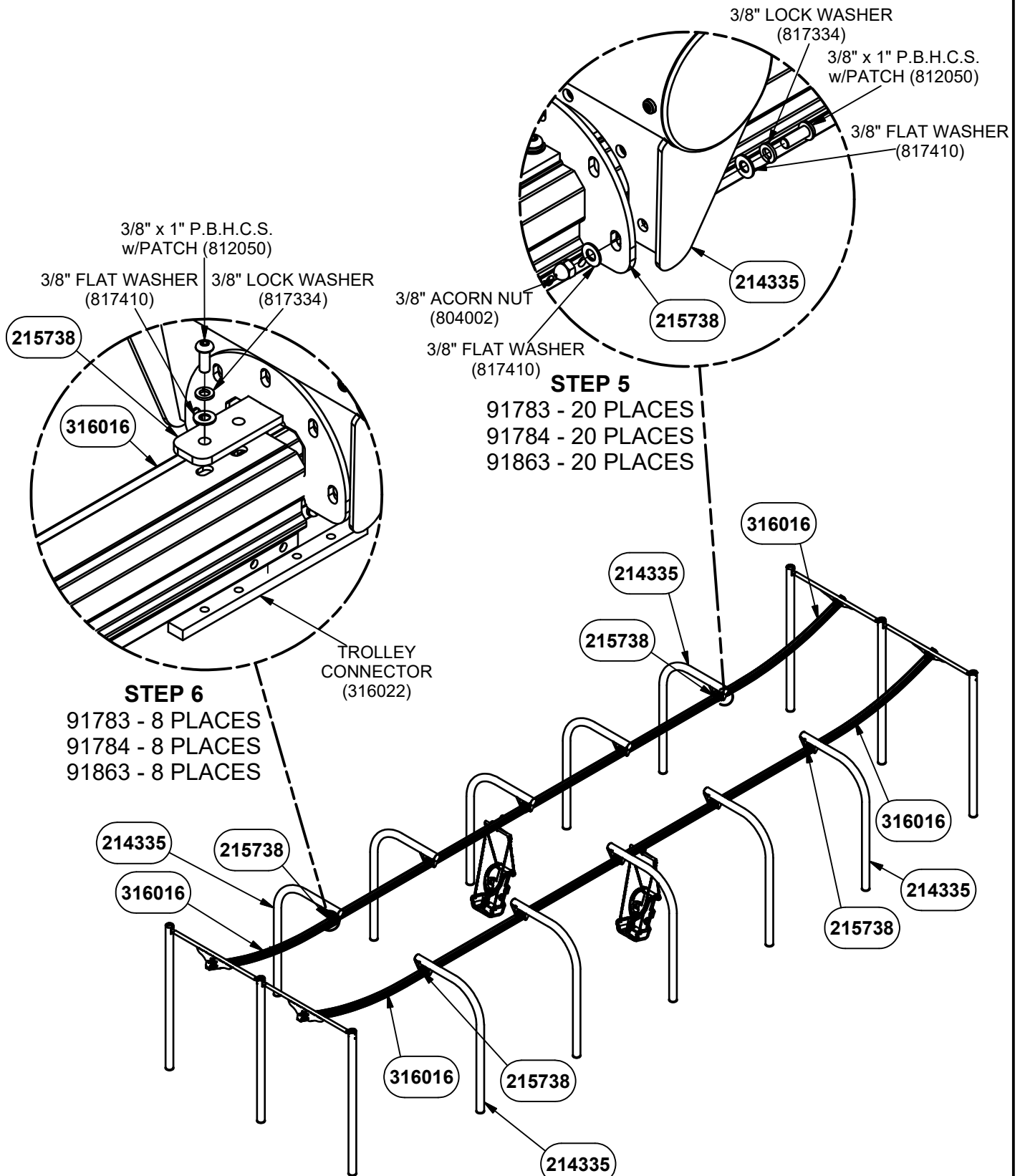
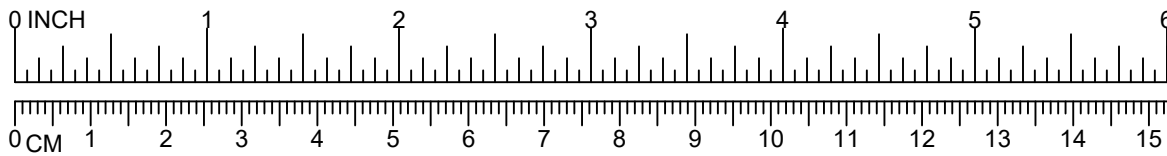
91783 - 8 PLACES
91784 - 8 PLACES
91863 - 8 PLACES



**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL**

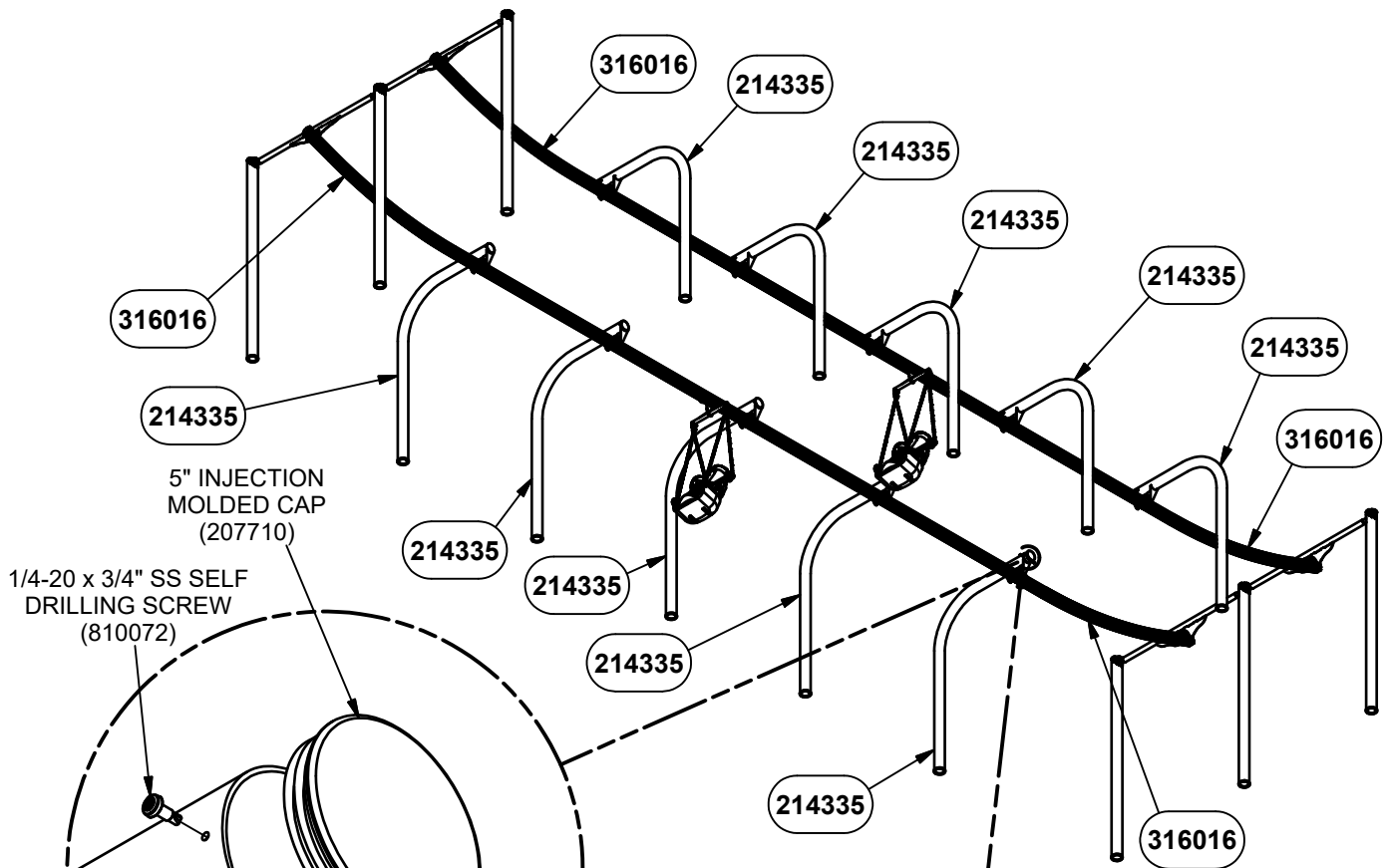
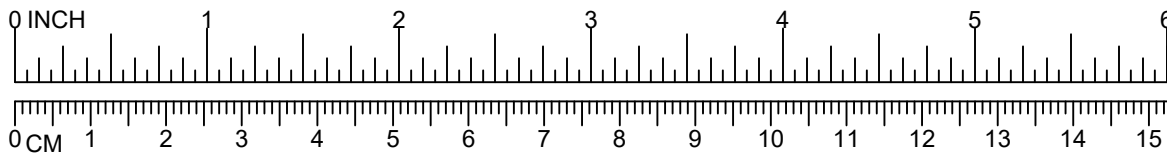
DETAIL VIEW





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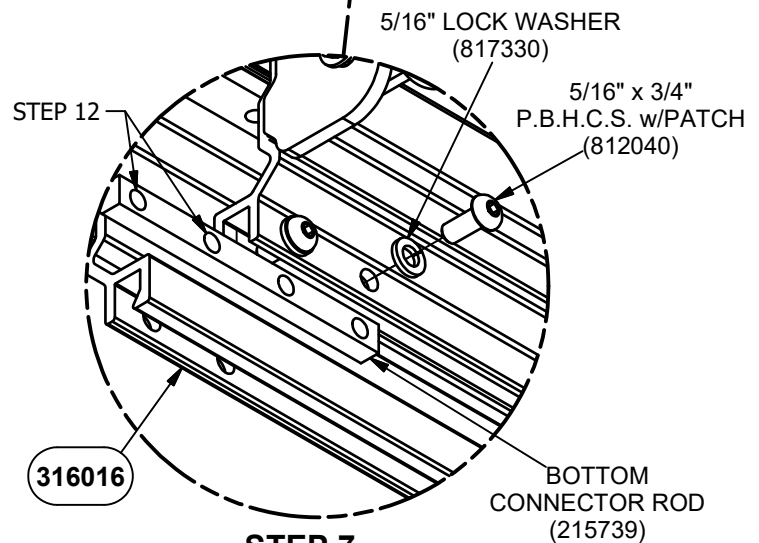
DETAIL VIEW



214335

STEP 8

91783 - 20 PLACES
91784 - 20 PLACES
91863 - 20 PLACES

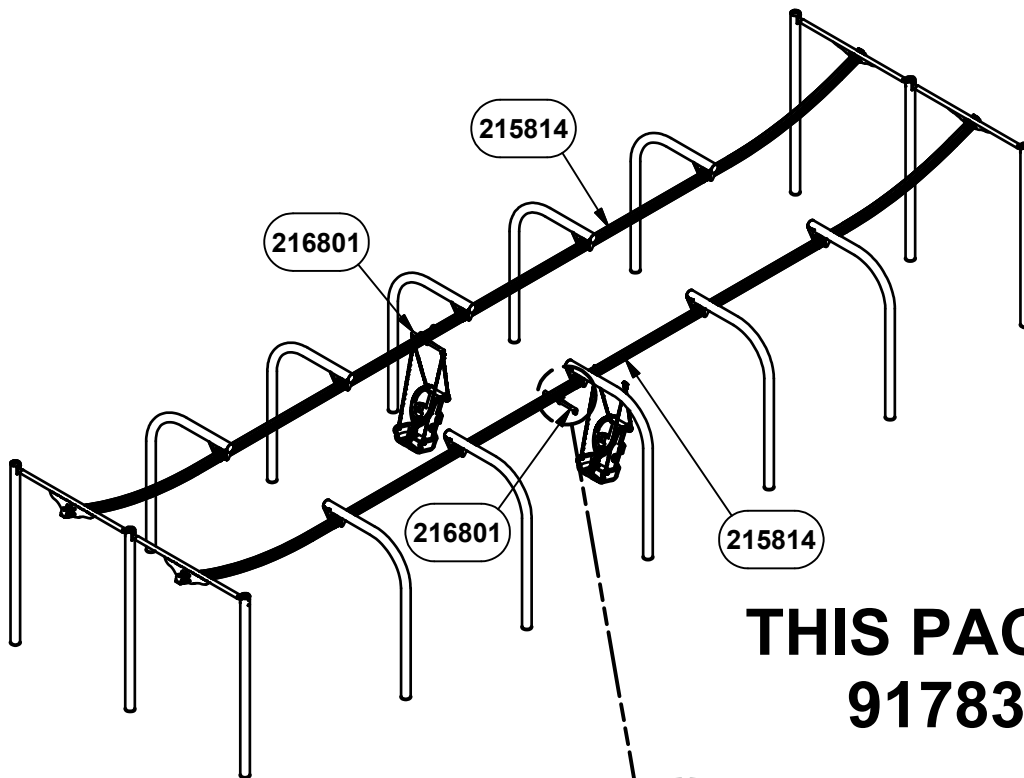
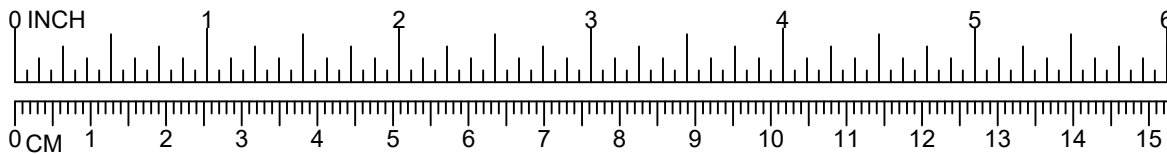


STEP 7

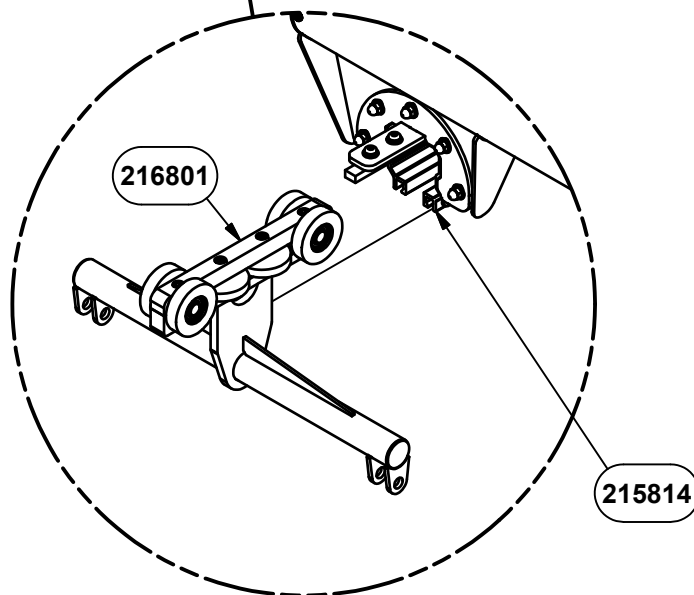
91783 - 16 PLACES
91784 - 16 PLACES
91863 - 16 PLACES

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL**

DETAIL VIEW



**THIS PAGE IS FOR
91783 ONLY**

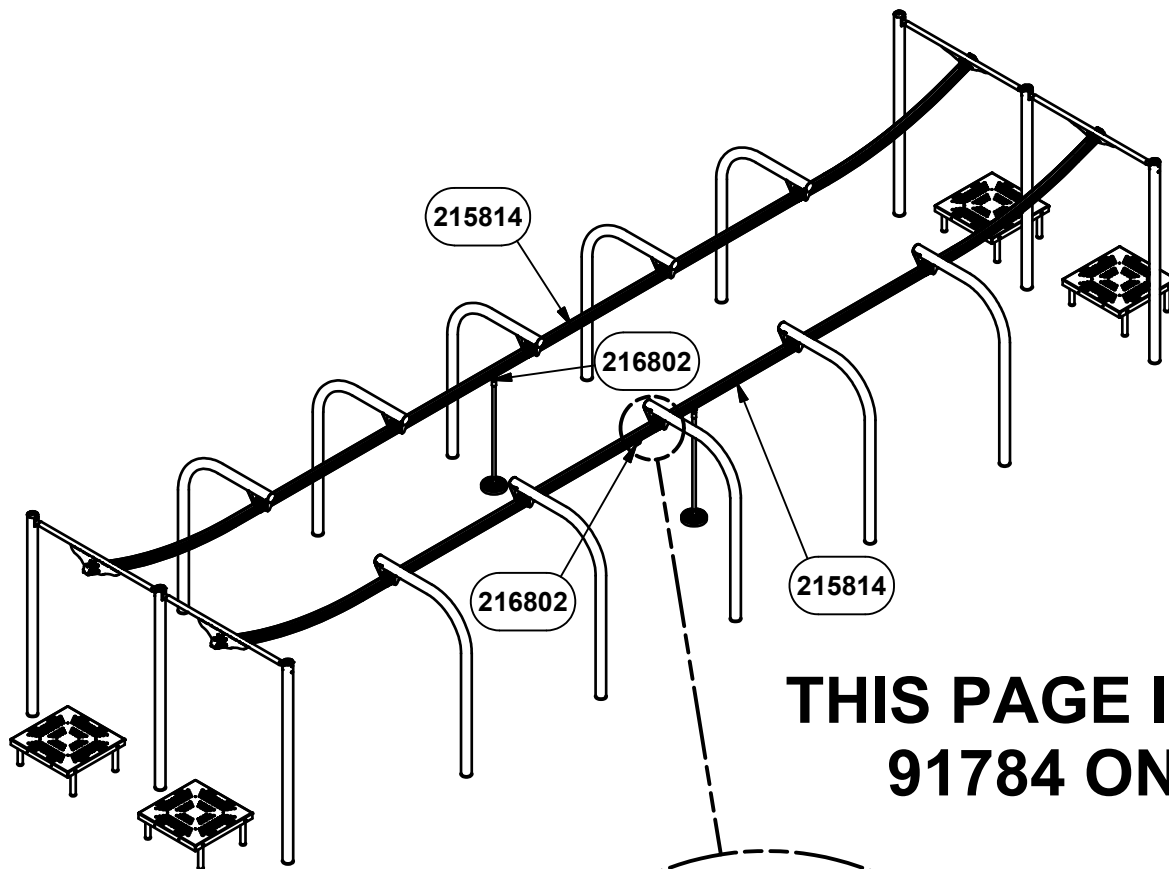
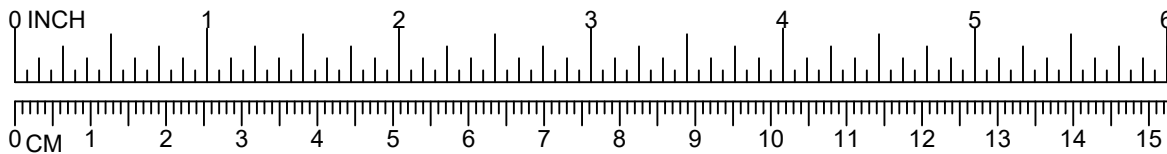


**STEP 9
91783 ONLY**

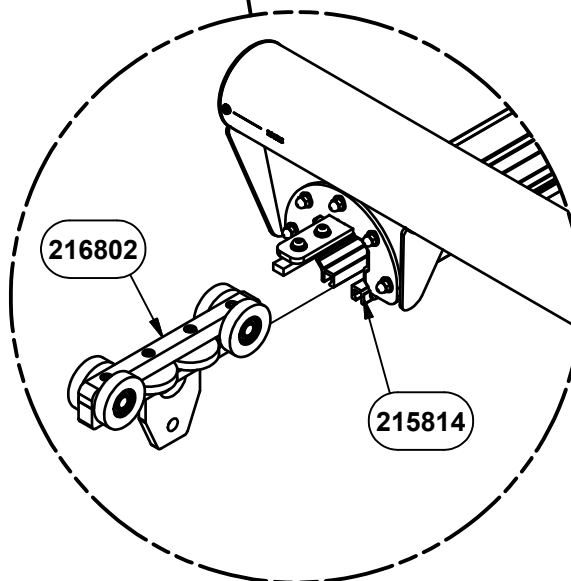
NOTE: INSERT ZERO-G CARRIAGE
ASSEMBLY INTO TRACK BEFORE ATTACHING
STRAIGHT SECTION DURING STEP 10.

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL

DETAIL VIEW
91783 ONLY



**THIS PAGE IS FOR
91784 ONLY**

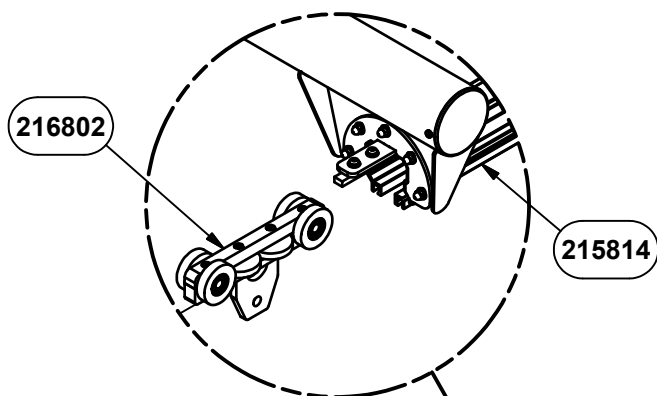
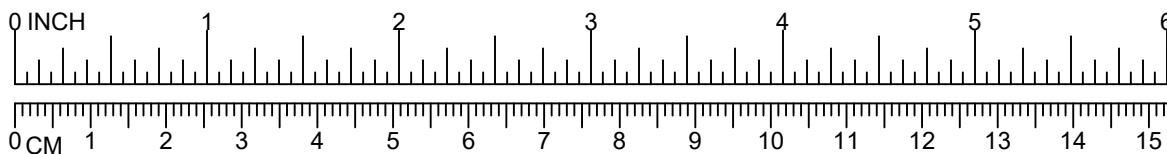


**STEP 9
91784 ONLY**

NOTE: INSERT ZIP SEAT CARRIAGE
ASSEMBLY INTO TRACK BEFORE ATTACHING
STRAIGHT SECTION DURING STEP 10.

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL

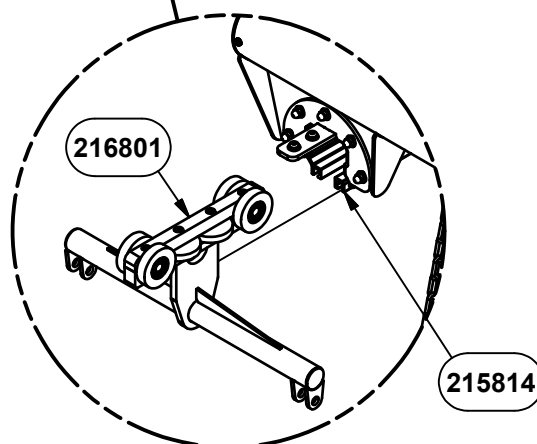
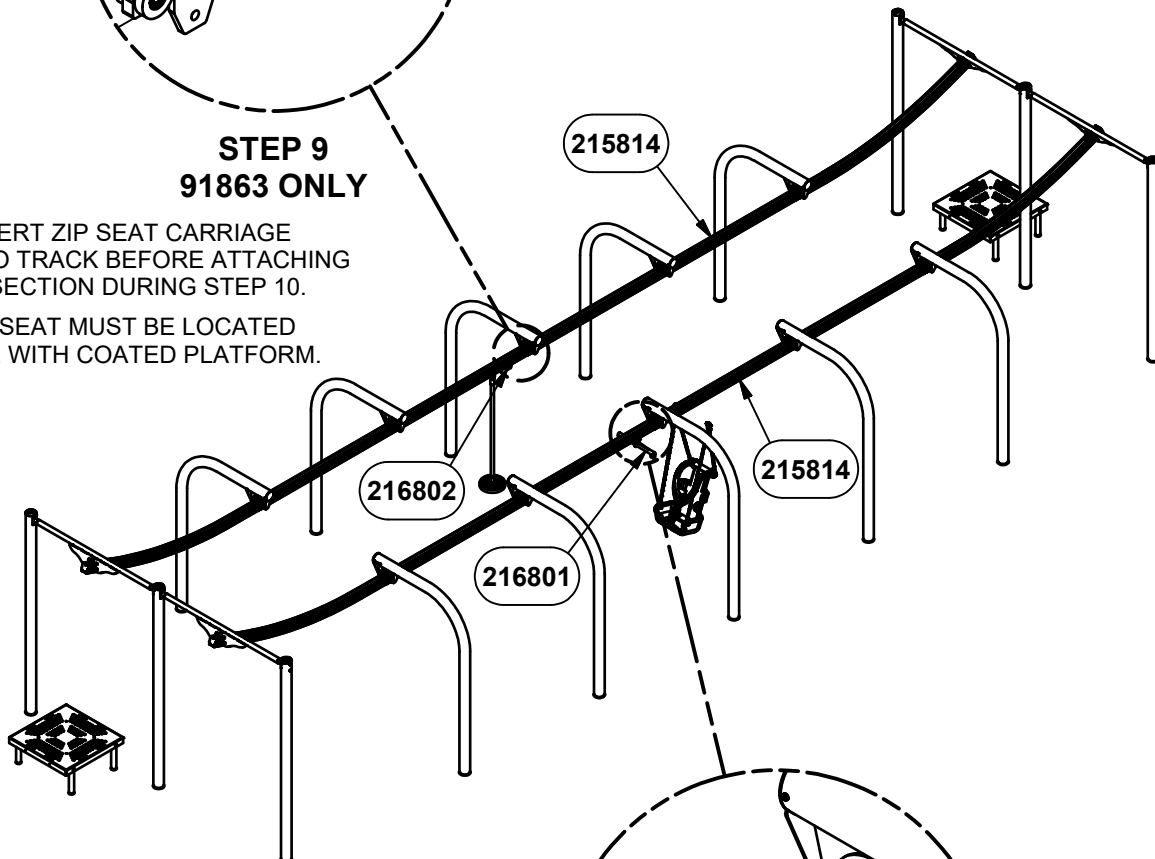
DETAIL VIEW
91784 ONLY



**STEP 9
91863 ONLY**

NOTE: INSERT ZIP SEAT CARRIAGE ASSEMBLY INTO TRACK BEFORE ATTACHING STRAIGHT SECTION DURING STEP 10.

NOTE: ZIP SEAT MUST BE LOCATED ON THE SIDE WITH COATED PLATFORM.



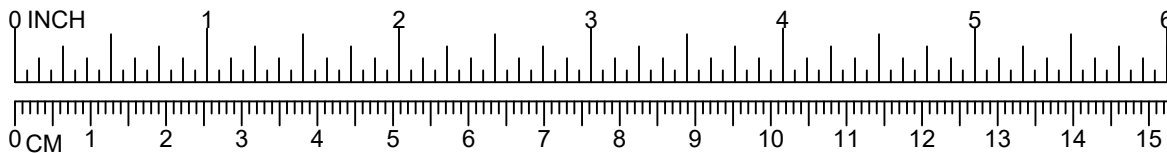
**STEP 9
91863 ONLY**

NOTE: INSERT ZERO-G CARRIAGE ASSEMBLY INTO TRACK BEFORE ATTACHING STRAIGHT SECTION DURING STEP 10.

**THIS PAGE IS FOR
91863 ONLY**

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**DETAIL VIEW
91863 ONLY**



3/8" x 1" P.B.H.C.S.
w/PATCH (812050)

3/8" LOCK WASHER
(817334)

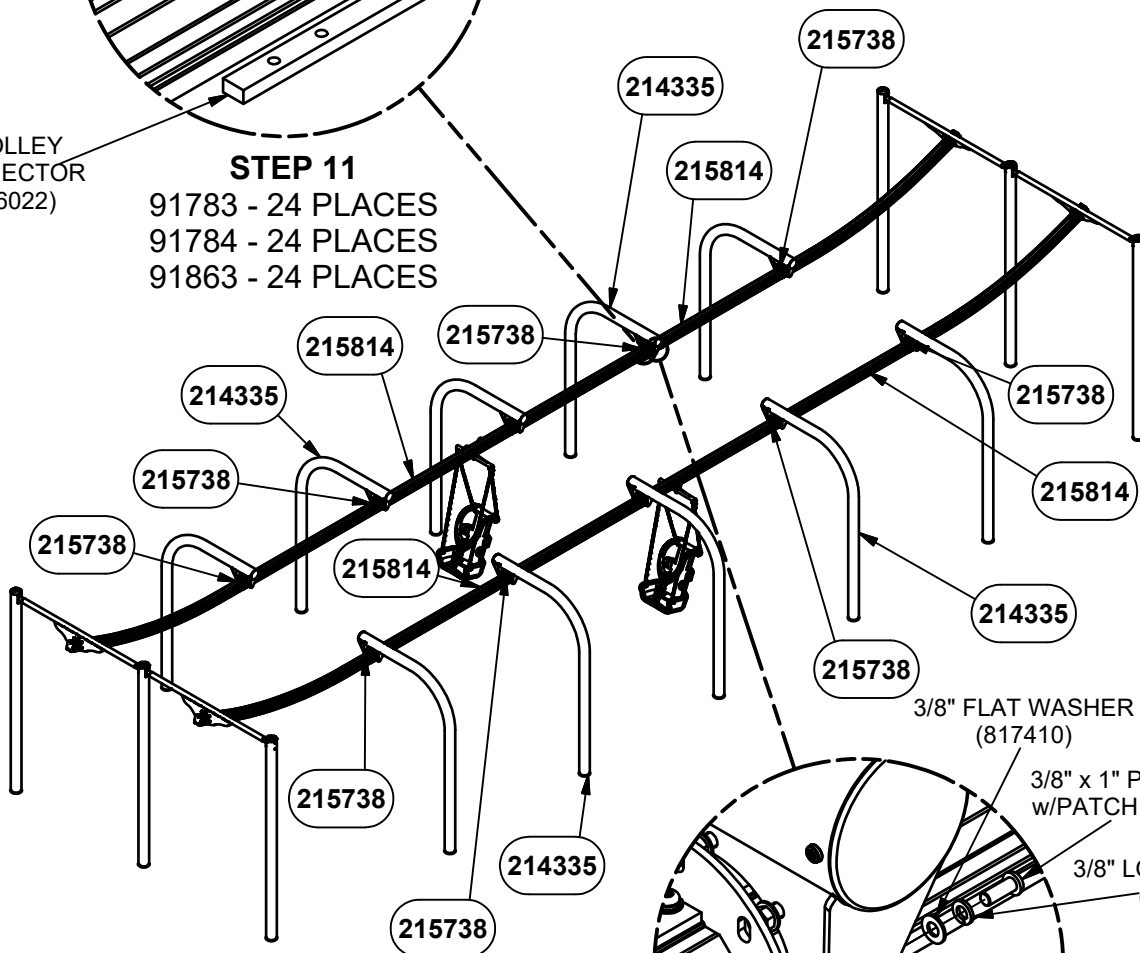
3/8" FLAT WASHER
(817410)

215814

TROLLEY
CONNECTOR
(316022)

STEP 11

91783 - 24 PLACES
91784 - 24 PLACES
91863 - 24 PLACES



3/8" FLAT WASHER
(817410)

3/8" x 1" P.B.H.C.S.
w/PATCH (812050)

3/8" LOCK WASHER
(817334)

3/8" ACORN NUT
(804002)

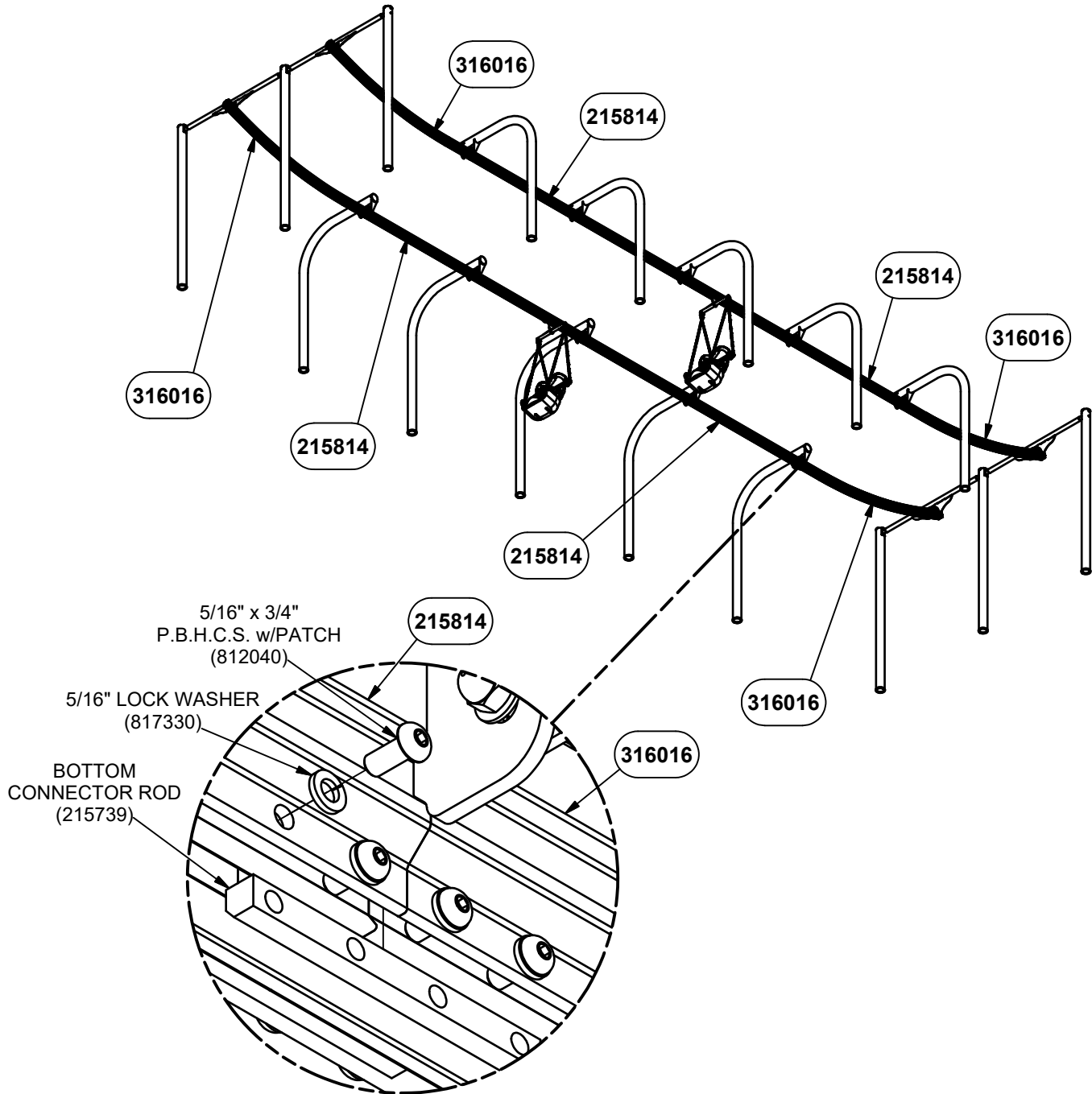
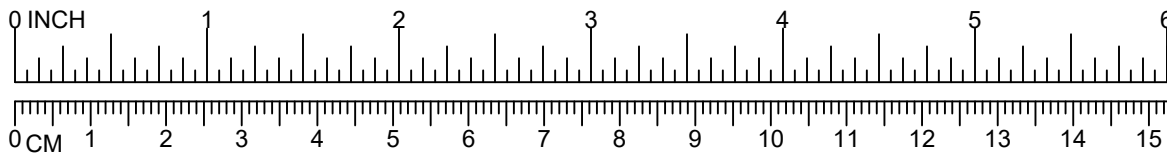
3/8" FLAT WASHER
(817410)

STEP 10

91783 - 20 PLACES
91784 - 20 PLACES
91863 - 20 PLACES

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STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL**

DETAIL VIEW



STEP 12

91783 - 16 PLACES

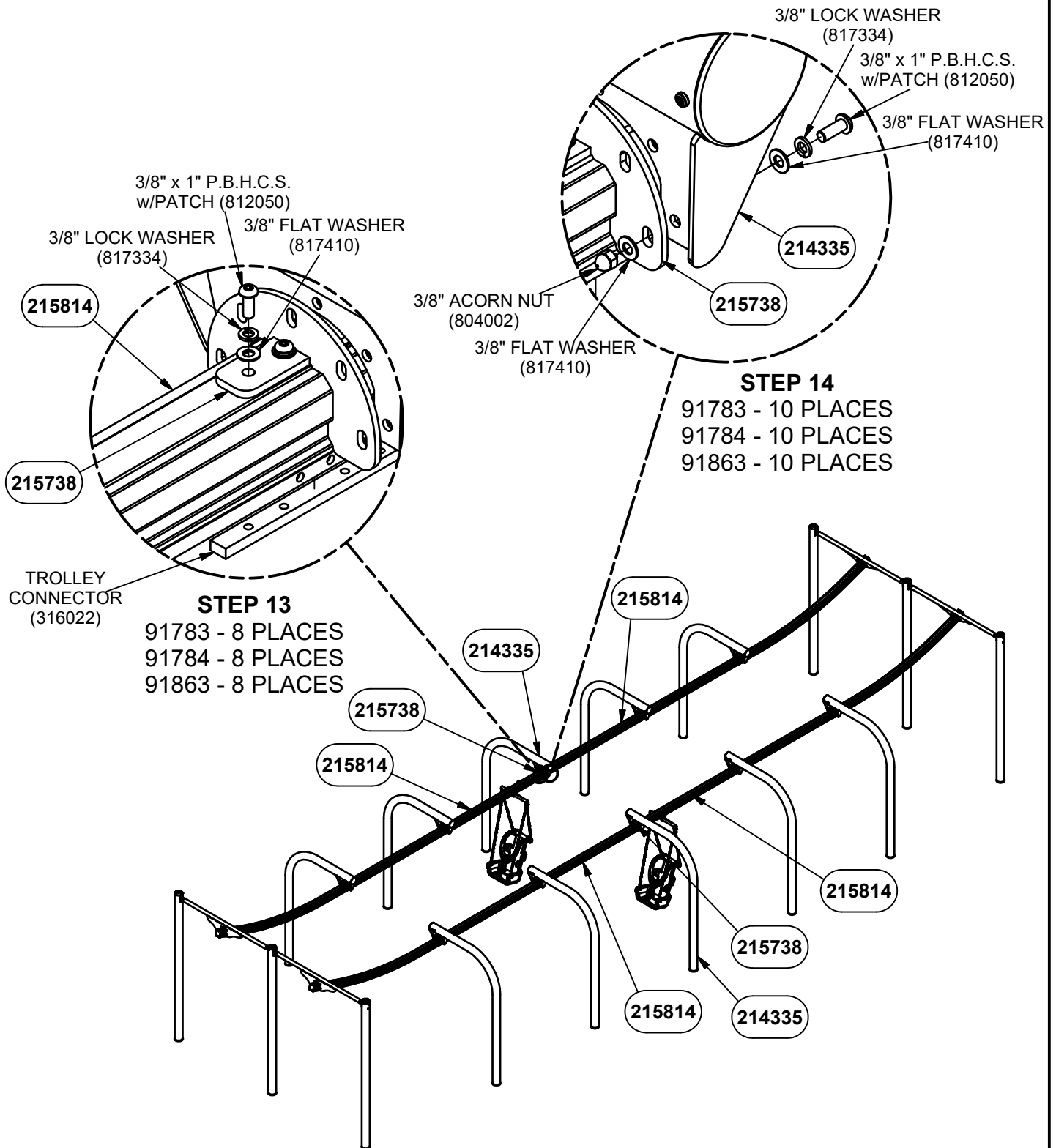
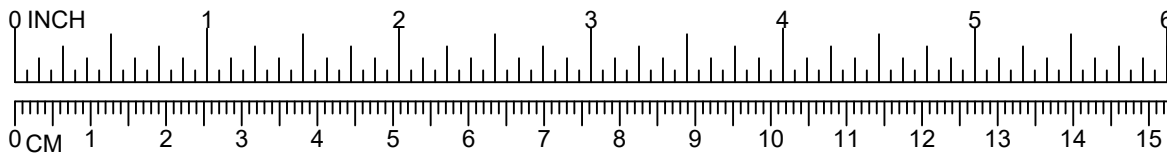
91784 - 16 PLACES

91863 - 16 PLACES

NOTE: TWO CONNECTIONS ON BOTTOM CONNECTOR ROD WERE USED DURING STEP 7.

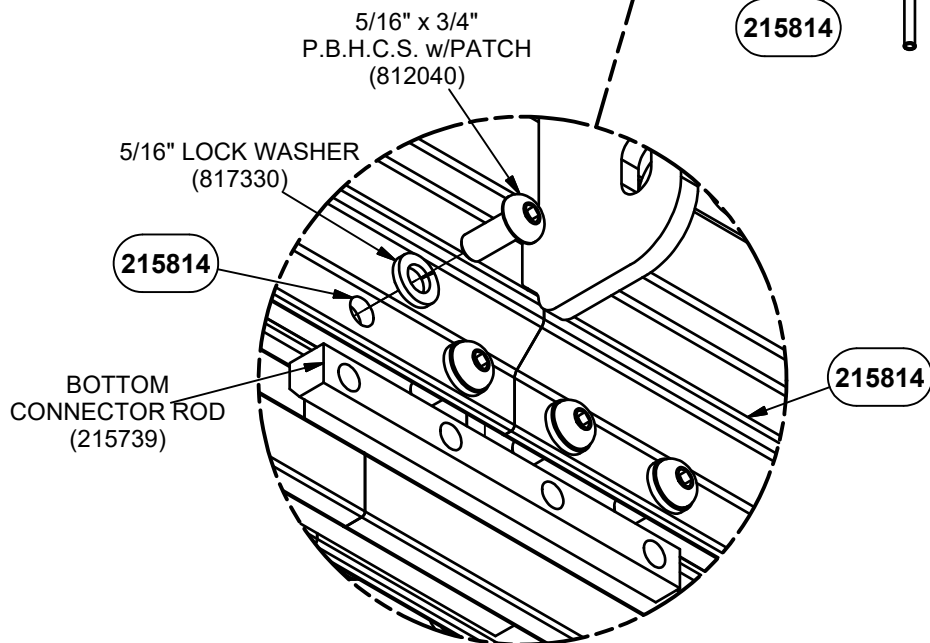
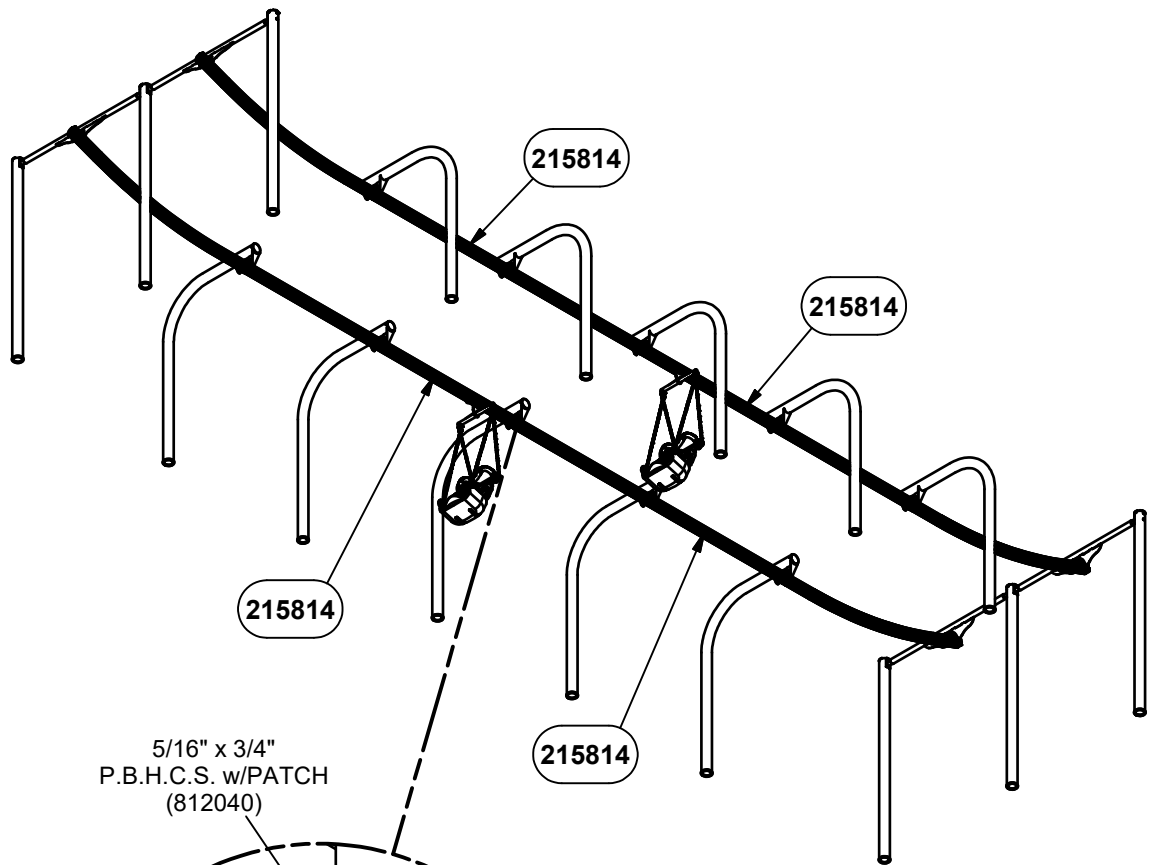
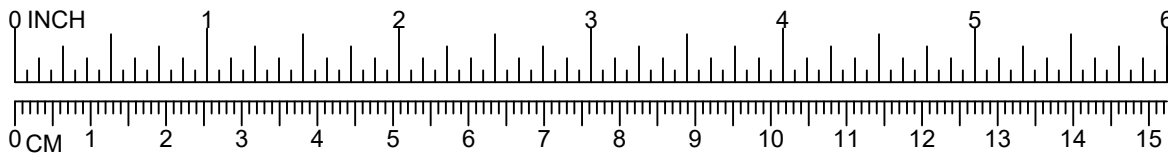
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DETAIL VIEW



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DETAIL VIEW



STEP 15

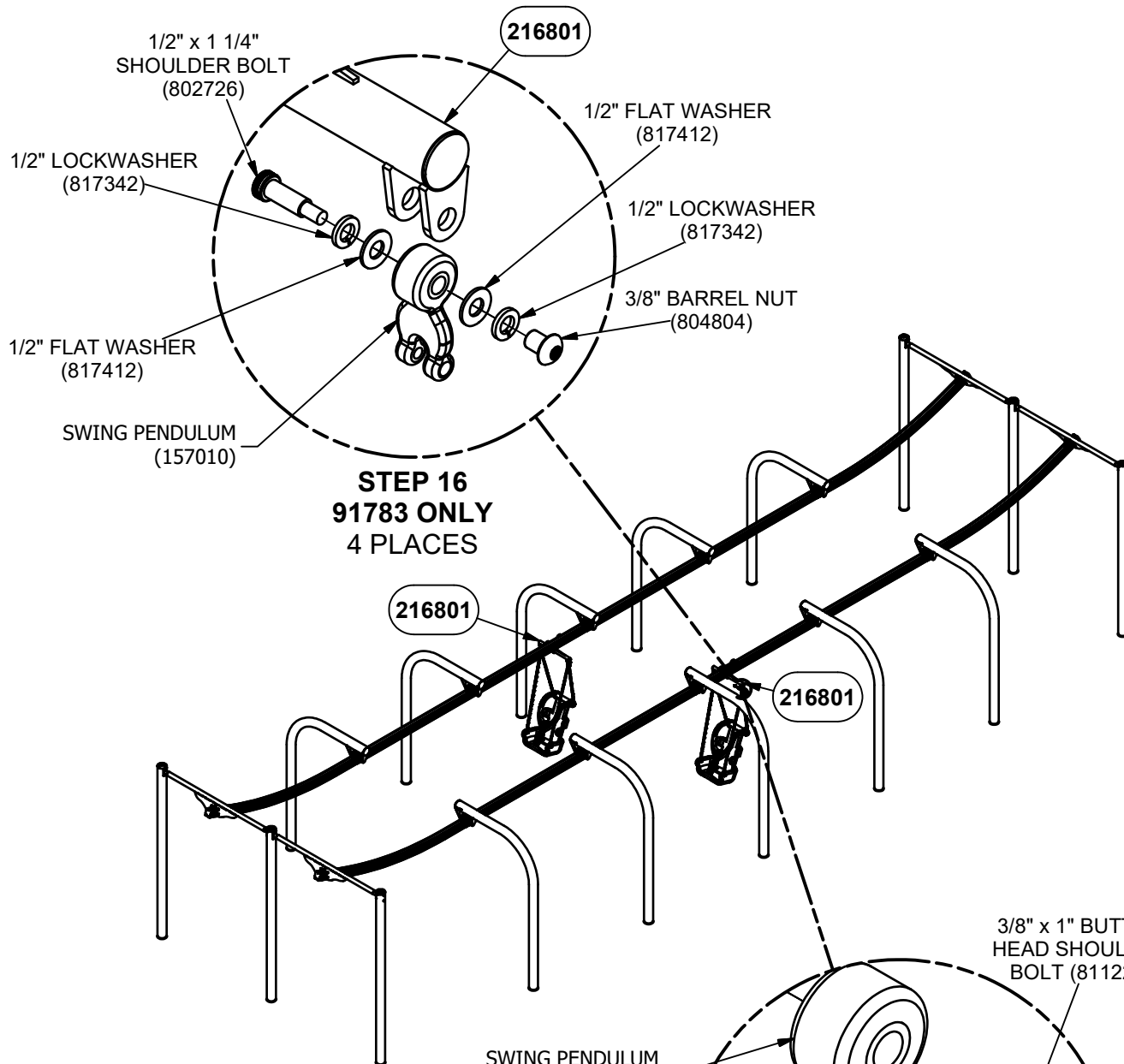
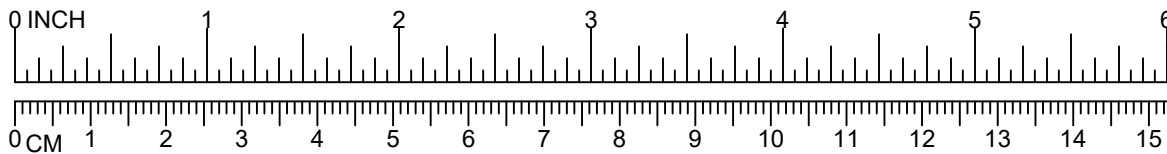
91873 - 16 PLACES

91874 - 16 PLACES

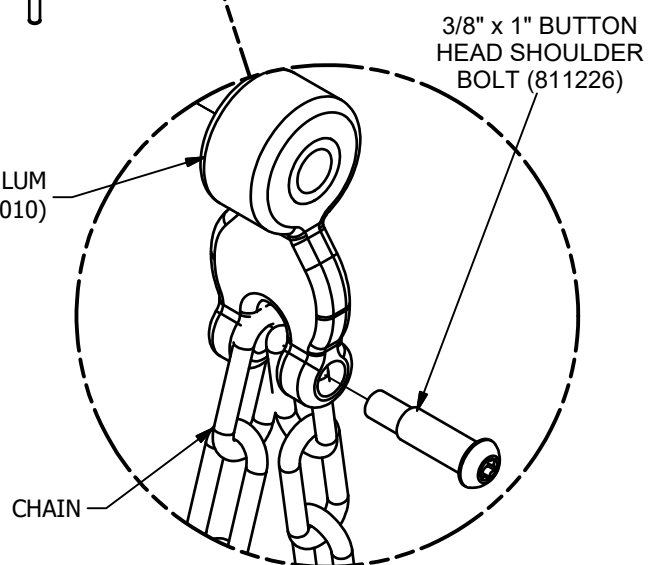
91863 - 16 PLACES

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DETAIL VIEW



STEP 16
91783 ONLY
4 PLACES

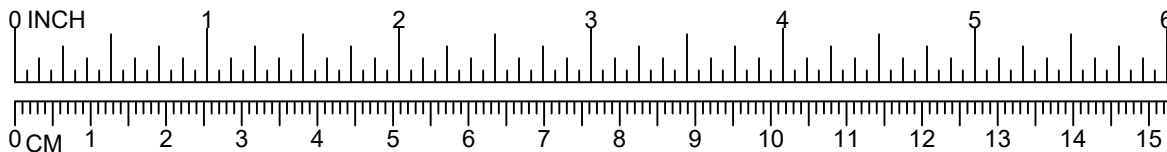


STEP 17
91783 ONLY
4 PLACES

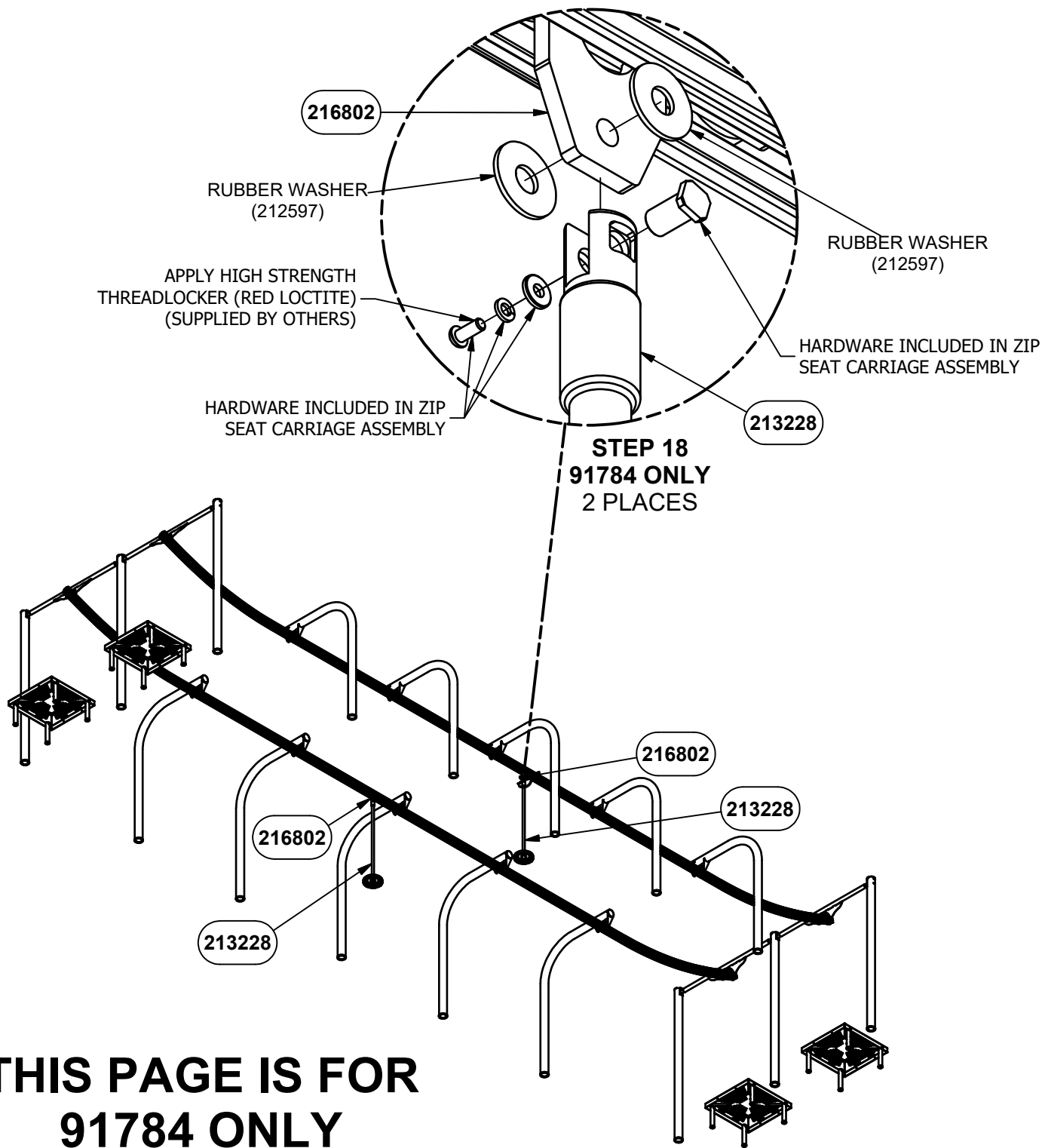
THIS PAGE IS FOR
91783 ONLY

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DETAIL VIEW
91783 ONLY



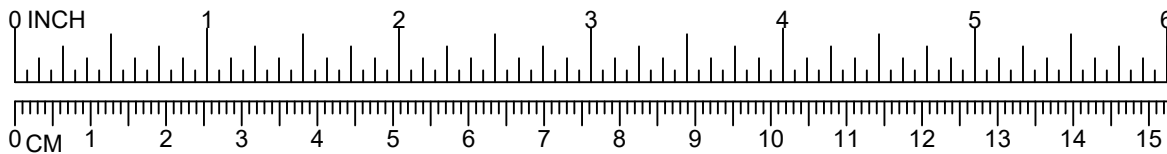
NOTE: RUBBER WASHERS FILL GAP BETWEEN ROPE FORK AND TRUCK.



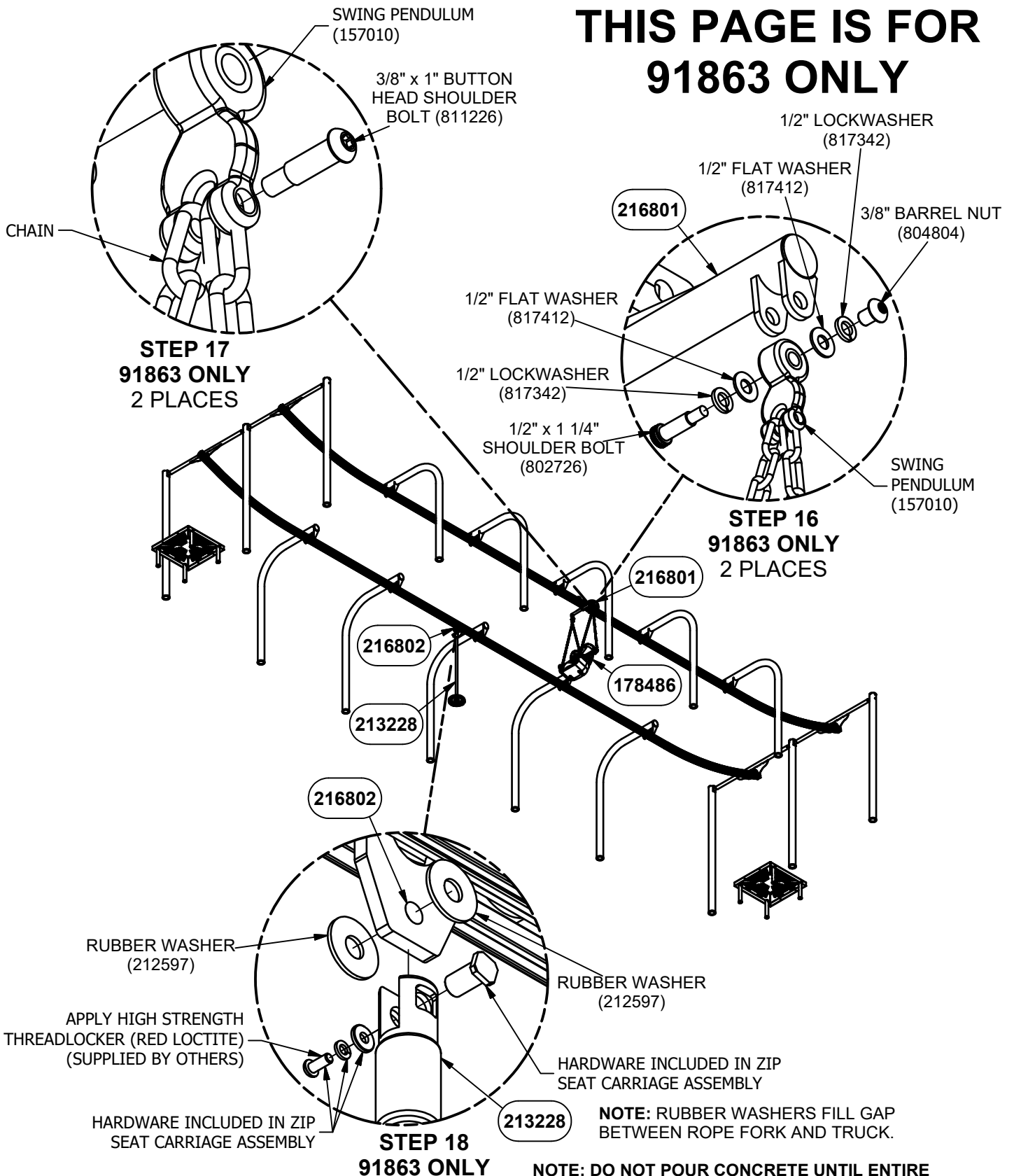
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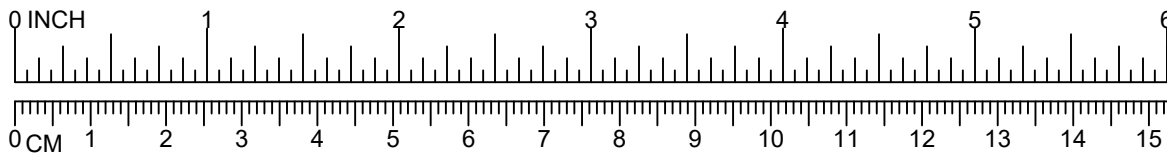
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**DETAIL VIEW
91784 ONLY**

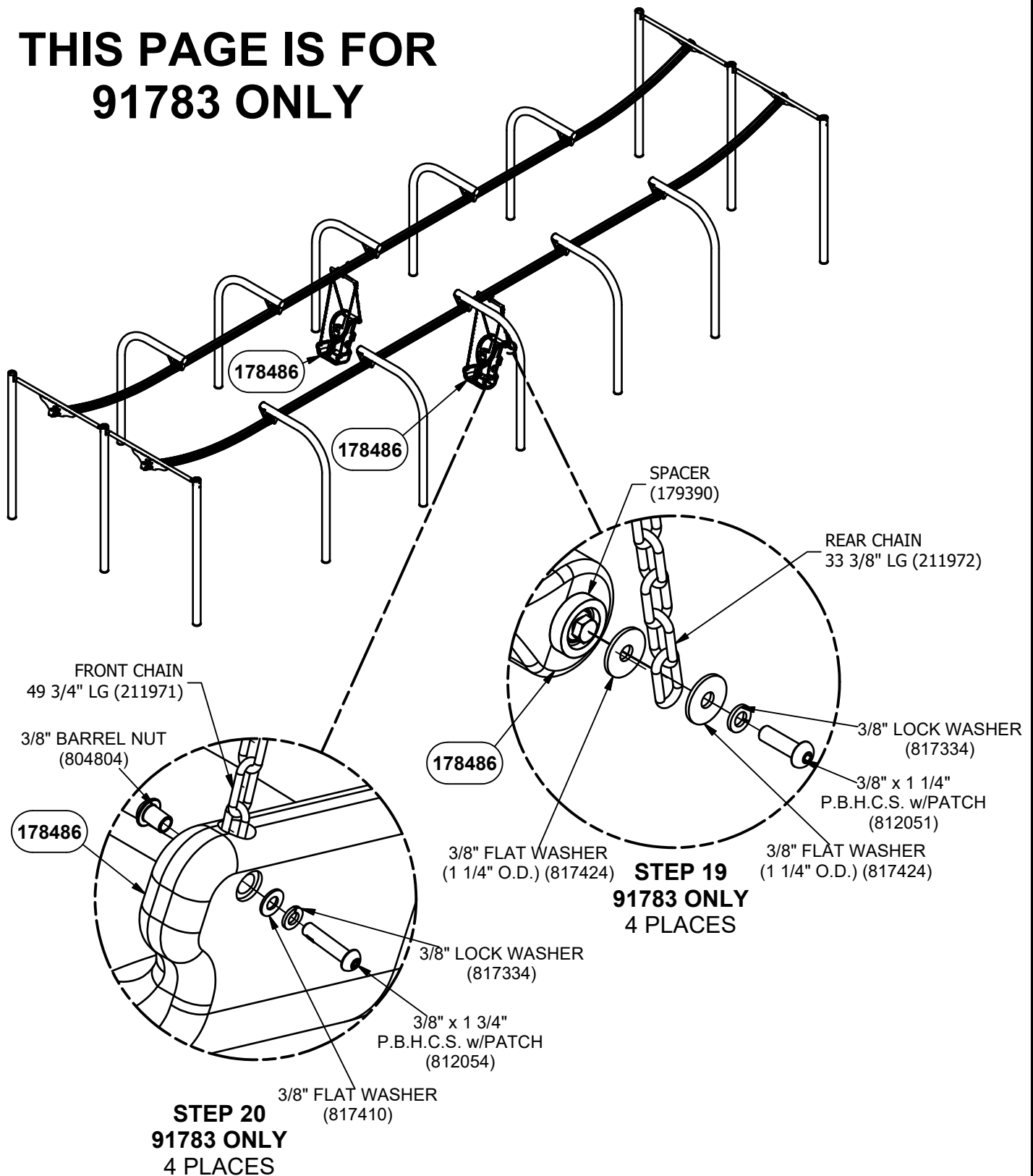


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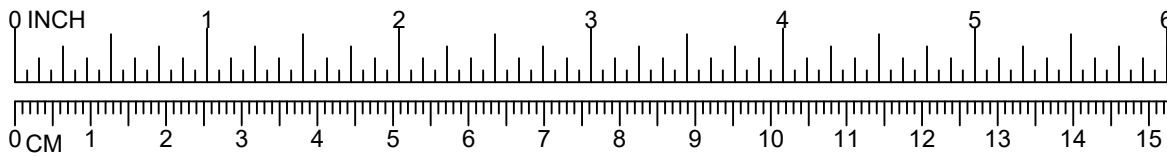


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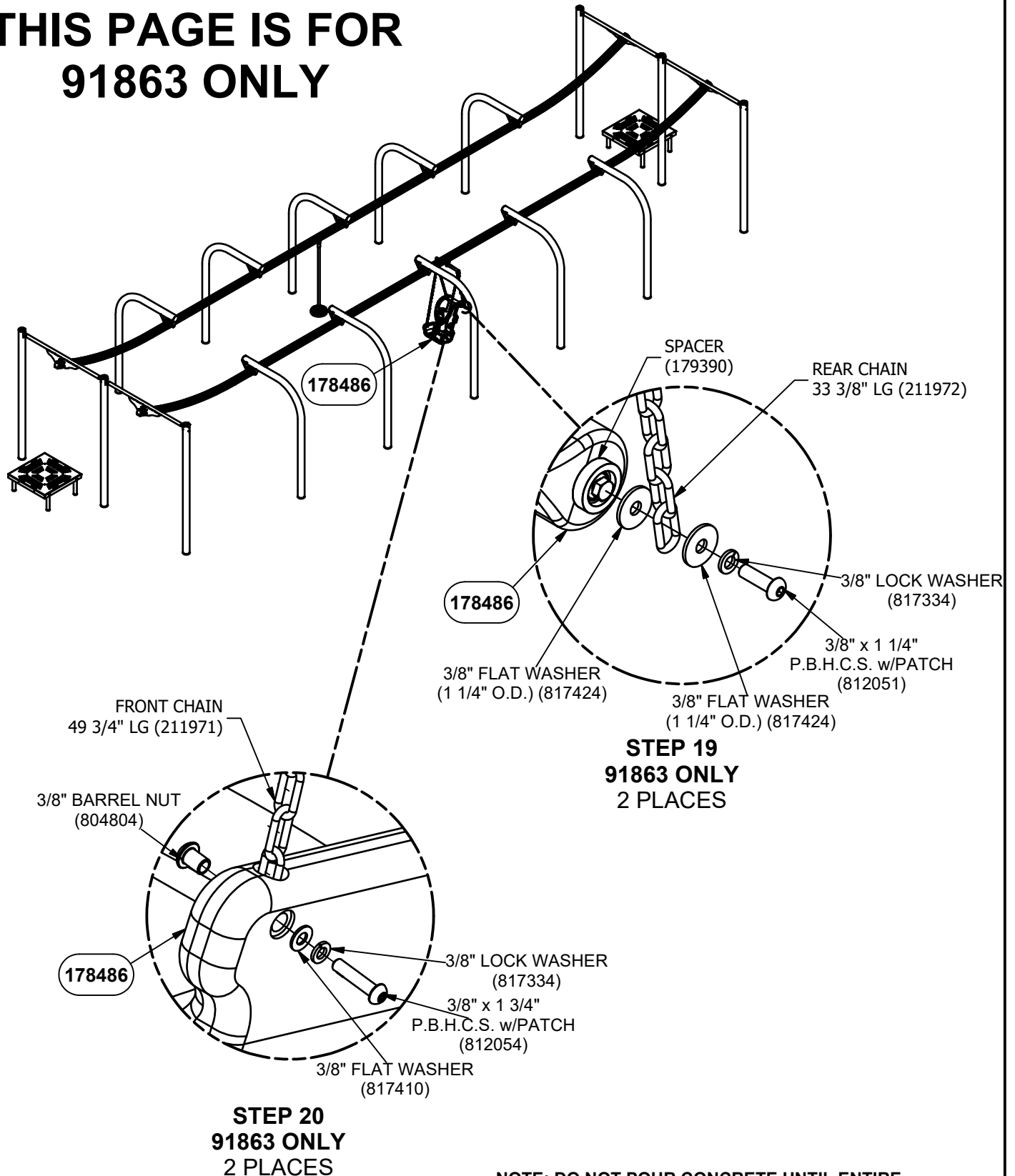


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**DETAIL VIEW
91783 ONLY**

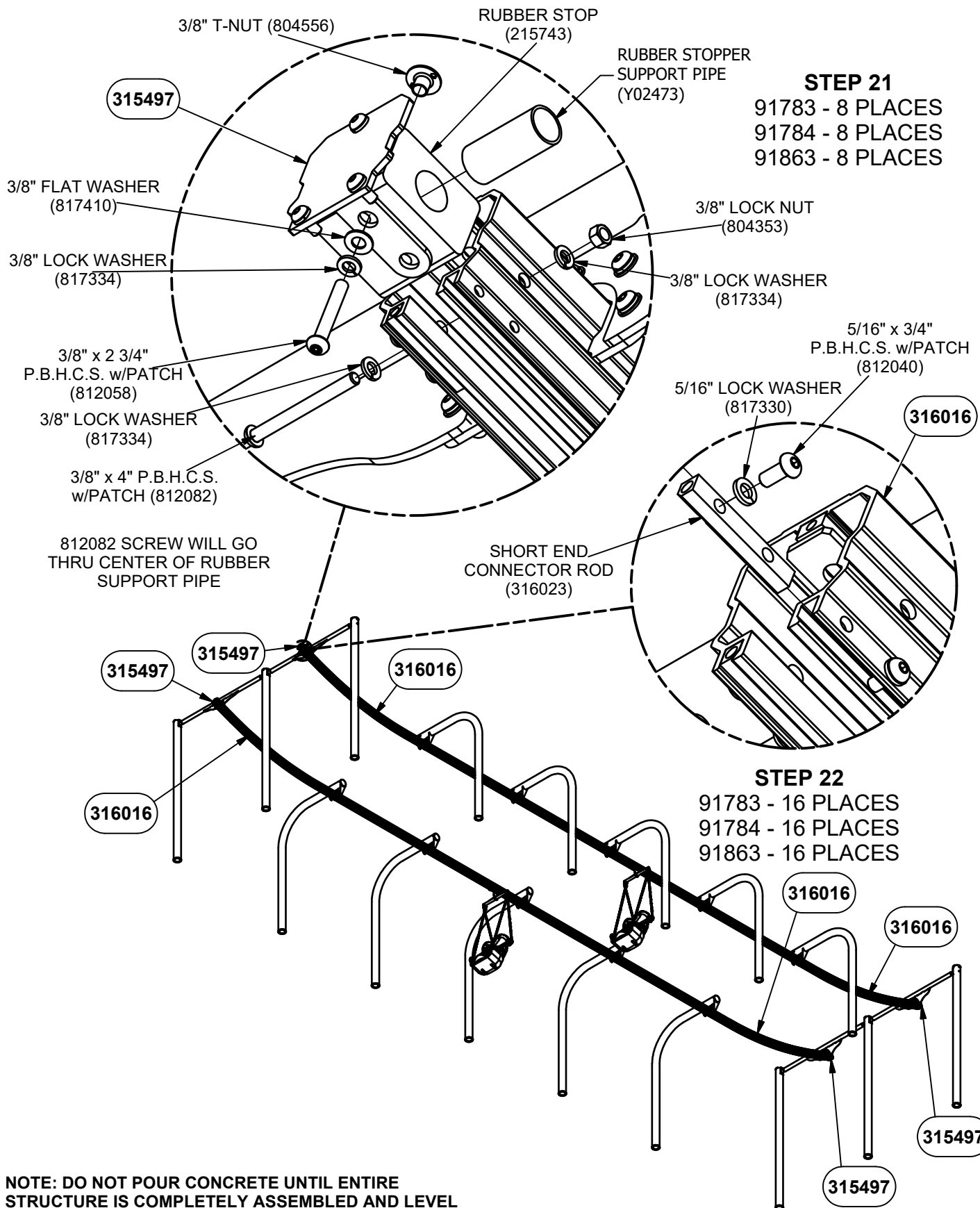
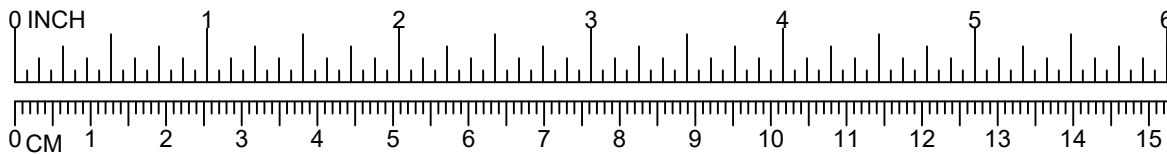


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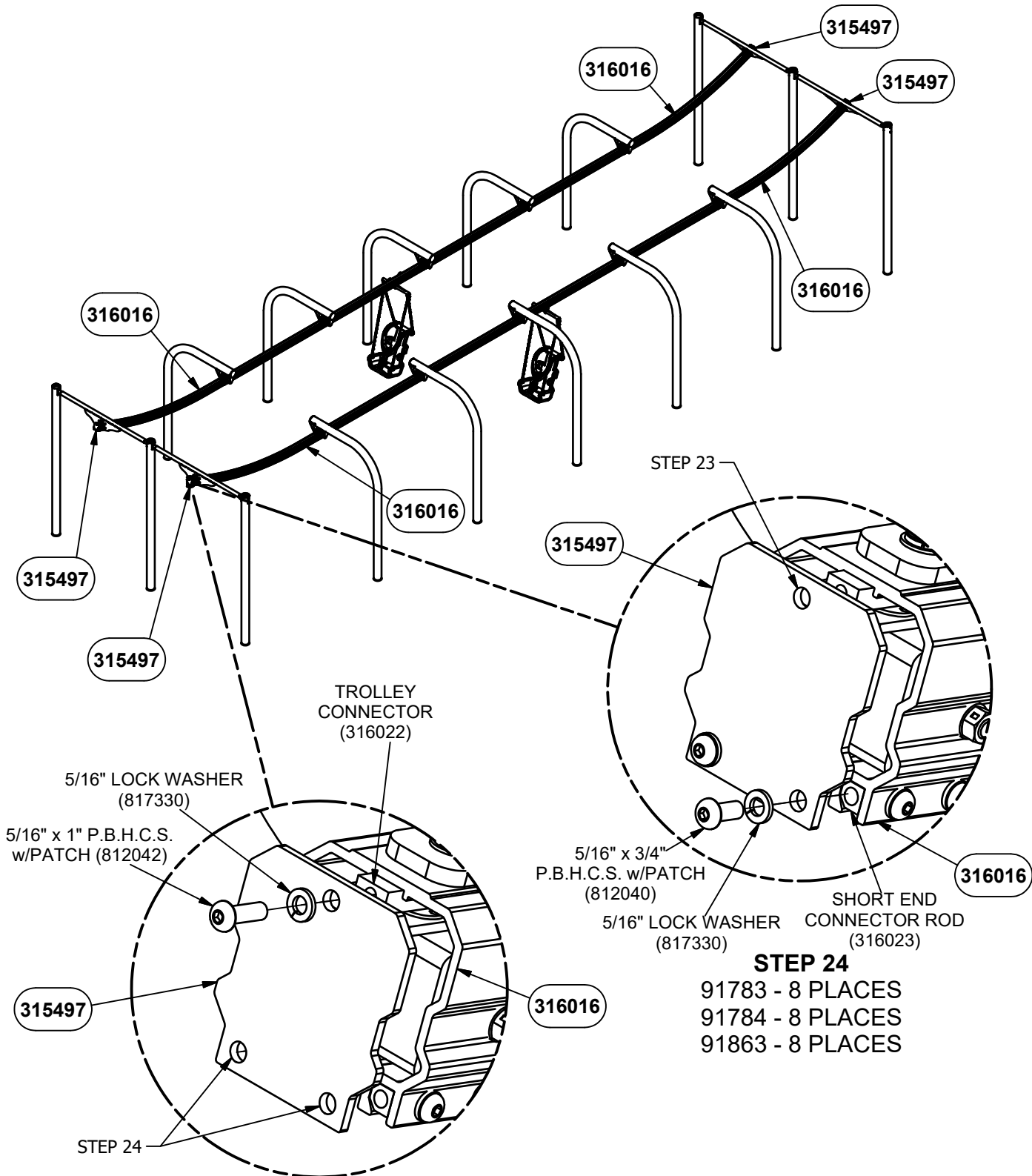
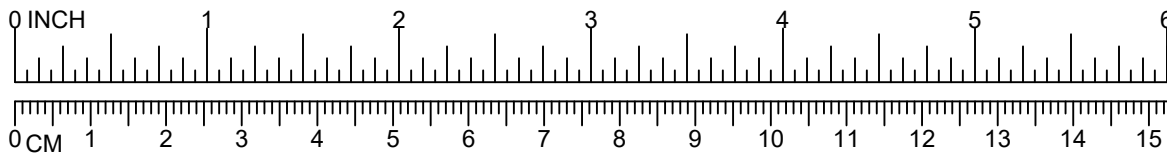
NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
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DETAIL VIEW
91863 ONLY



NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL

DETAIL VIEW

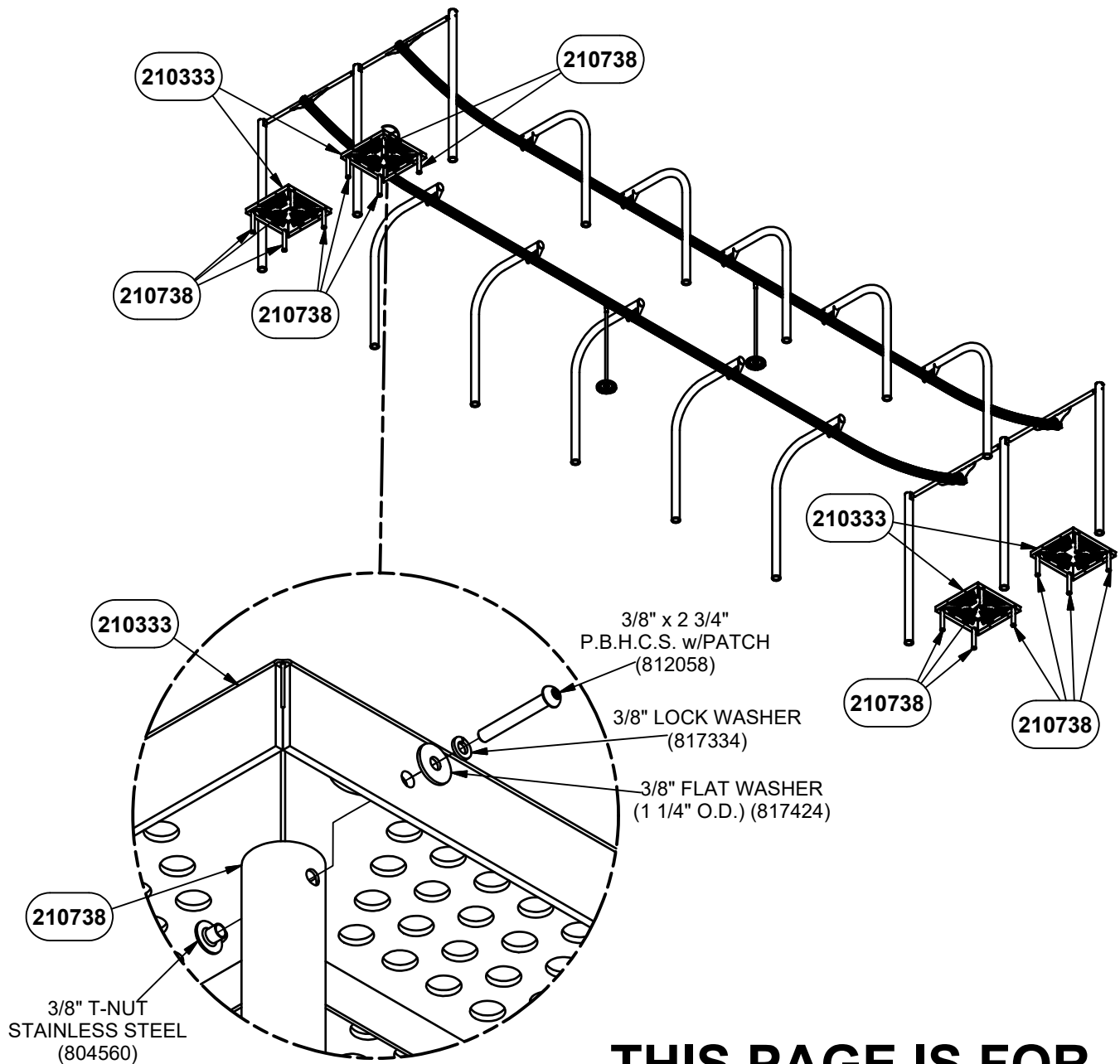
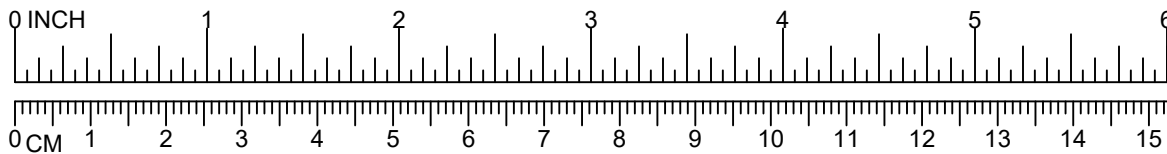


STEP 23
 91783 - 4 PLACES
 91784 - 4 PLACES
 91863 - 4 PLACES

STEP 24
 91783 - 8 PLACES
 91784 - 8 PLACES
 91863 - 8 PLACES

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DETAIL VIEW



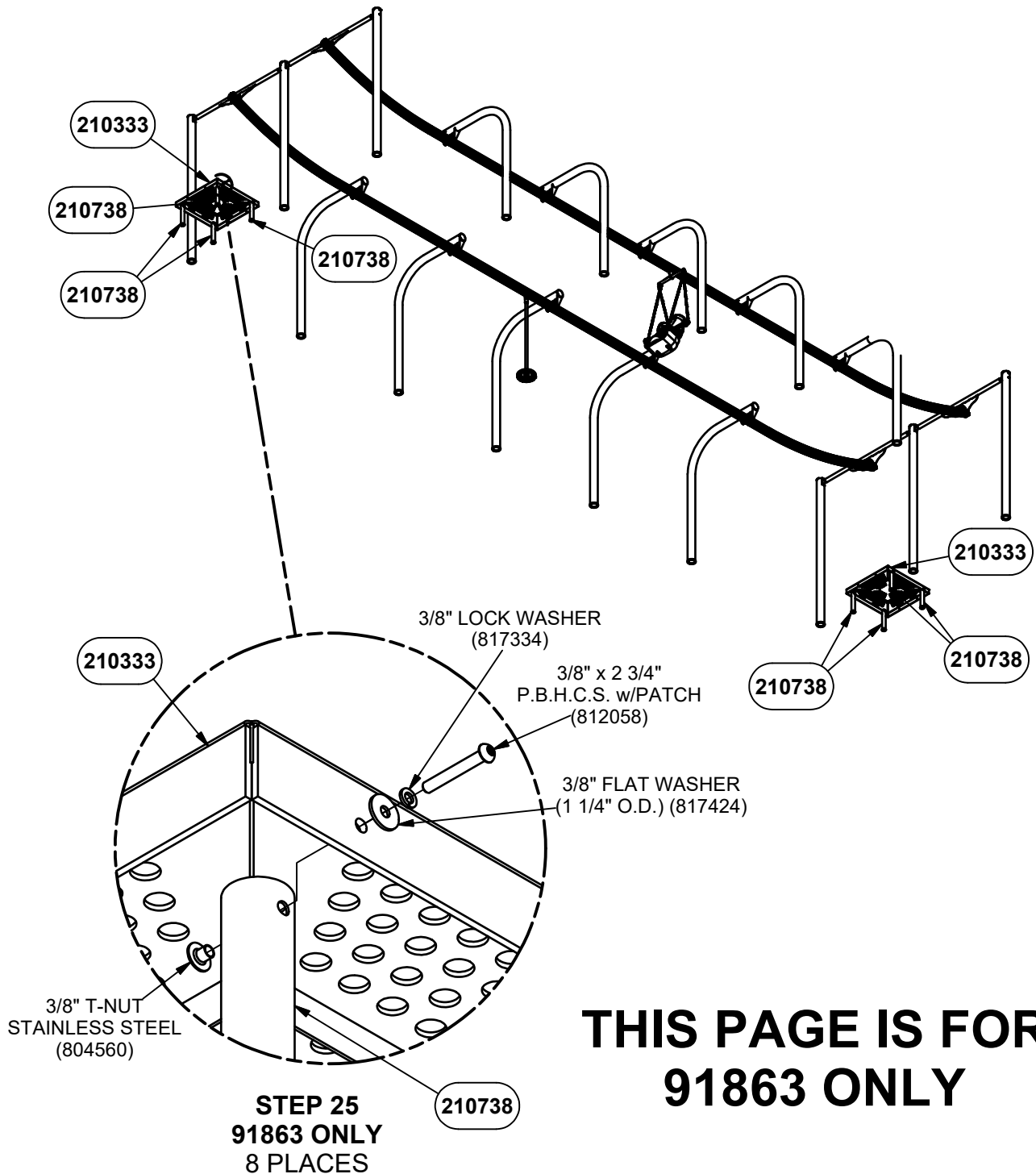
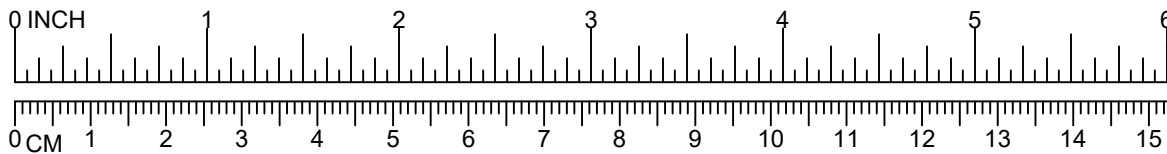
STEP 25
91784 ONLY
 16 PLACES

THIS PAGE IS FOR
91784 ONLY

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DETAIL VIEW
91784 ONLY

PAGE 27



**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
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**DETAIL VIEW
91863 ONLY**

Parts List				
DESCRIPTION	91783	91784	91863	PART NUMBER
STRAIGHT TRACK 178 3/8" LG	4	4	4	215814
CONNECTION PLATE	14	14	14	215738
UPRIGHT	6	6	6	LJNVP9
END PLATE WELDMENT	4	4	4	315497
FORMED TRACK	4	4	4	316016
END MOUNTING BAR WELD ASSEMBLY	4	4	4	222307
ZERO-G SEAT	2	0	1	178486
ZERO-G CARRAIGE ASSEMBLY	2	0	1	216801
ZIP SEAT CARRIAGE ASSEMBLY	0	2	1	216802
ZIP SEAT 63 1/2" ROPE ASSEMBLY	0	2	1	213228
COATED PLATFORM	0	4	2	210333
FOOTBUCK WELD ASSEMBLY	0	16	8	210738
FORMED UPRIGHT WELD ASSEMBLY	10	10	10	214335
HARDWARE COMPLETE	1	0	0	223232
HARDWARE COMPLETE	0	1	0	223233
HARDWARE COMPLETE	0	0	1	223234
RUBBER STOPPER SUPPORT PIPE	4	4	4	Y02473*
5" INJECTION MOLDED CAP	10	10	10	207710*
5/16" x 3/4" P.B.H.C.S. w/PATCH	72	72	72	812040*
5/16" x 1" P.B.H.C.S. w/PATCH	4	4	4	812042*
5/16" LOCK WASHER	76	76	76	817330*
3/8" x 3/4" B.H.C.S.	8	8	8	811052*
3/8" x 1" P.B.H.C.S. w/PATCH	142	142	142	812050*
3/8" x 1" BUTTON HEAD SHOULDER BOLT	4	0	2	811226*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	0	2	812051*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	0	2	812054*
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	8	24	16	812058*
3/8" x 4" P.B.H.C.S. w/PATCH	4	4	4	812082*
3/8" FLAT WASHER	224	220	222	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	8	16	12	817424*
3/8" LOCK NUT	4	4	4	804353*
3/8" LOCK WASHER	166	166	162	817334*
3/8" ACORN NUT	70	70	70	804002*
3/8" BARREL NUT	8	0	4	804804*
3/8" T-NUT	8	8	8	804556*
3/8" T-NUT STAINLESS STEEL	0	16	8	804560*
1/2" x 1 1/4" SHOULDER BOLT	4	0	2	802726*
1/2" FLAT WASHER	8	0	4	817412*
1/2" LOCKWASHER	8	0	4	817342*
1/4-20 x 3/4" SS SELF DRILLING SCREW	20	20	20	810072*

**HARDWARE CONTINUED
ON NEXT PAGE**

Parts List				
DESCRIPTION	91783	91784	91863	PART NUMBER
FRONT CHAIN	4	0	2	211971*
REAR CHAIN	4	0	2	211972*
SPACER	4	0	2	179390*
SWING PENDULUM	4	0	2	157010*
RUBBER STOP	4	4	4	215743*
RUBBER WASHER	0	4	2	212597*
BOTTOM CONNECTOR ROD	12	12	12	215739*
SHORT END CONNECTOR ROD	8	8	8	316023*
TROLLEY CONNECTOR	14	14	14	316022*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

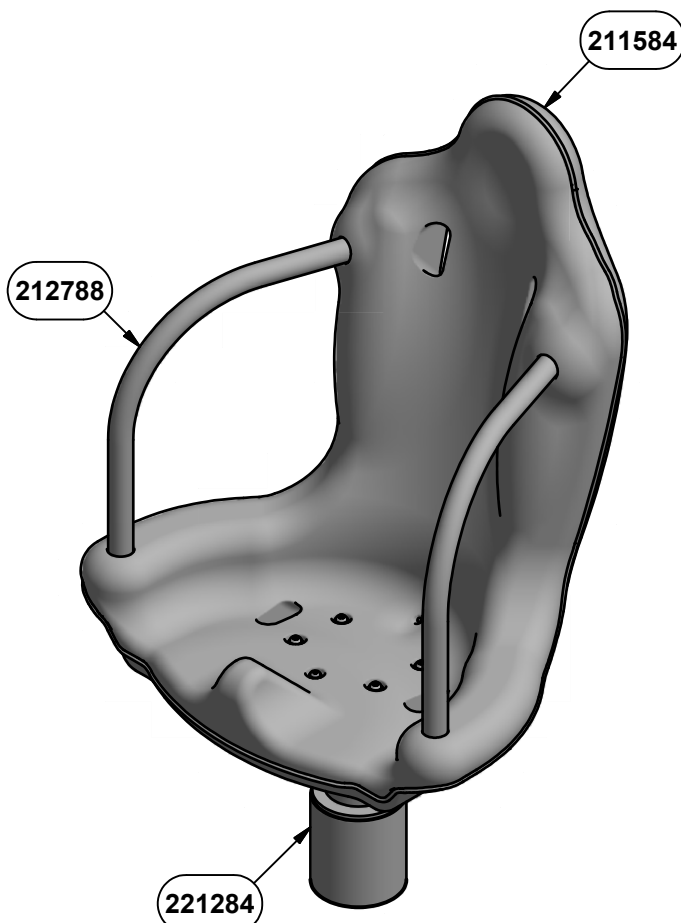


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3274

SENSORY WAVE SEAT

ISSUED/REVISED: 11/15/2021

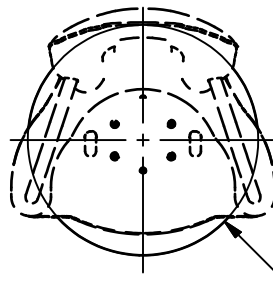


ASSEMBLY VIEW

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

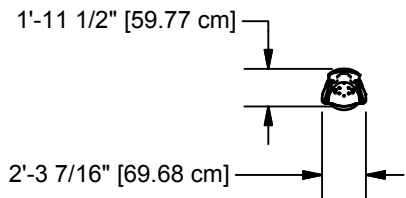
NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.



PLAN VIEW

CONCRETE REQUIRED:
.29 CUBIC YARDS
[.22 CUBIC METERS]

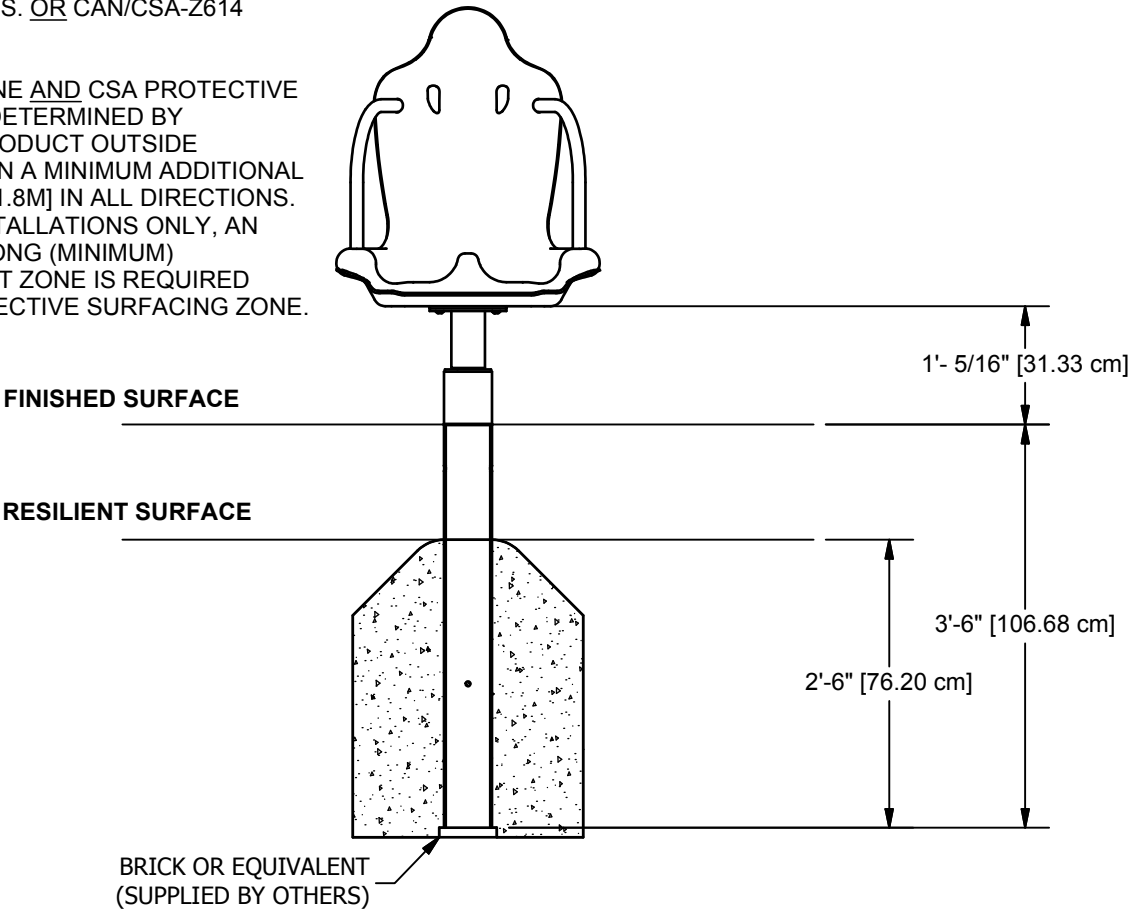
Ø2'-0" [Ø60.96 cm] DIAMETER x
3'-6" [106.68] DEEP



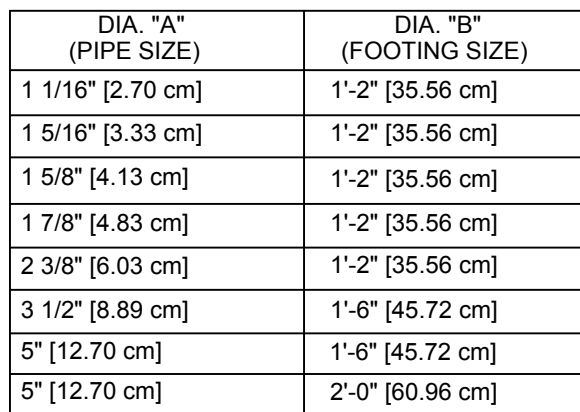
TOP VIEW

*OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F1292 AND ASTM F1487 (U.S. OR CAN/CSA-Z614 (CANADA))

*THE ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE DETERMINED BY EXTENDING THE PRODUCT OUTSIDE DIMENSIONS SHOWN A MINIMUM ADDITIONAL DISTANCE OF 6'-0" [1.8M] IN ALL DIRECTIONS. FOR CANADIAN INSTALLATIONS ONLY, AN ADDITIONAL 1.8M LONG (MINIMUM) NO-ENCROACHMENT ZONE IS REQUIRED BEYOND THE PROTECTIVE SURFACING ZONE.

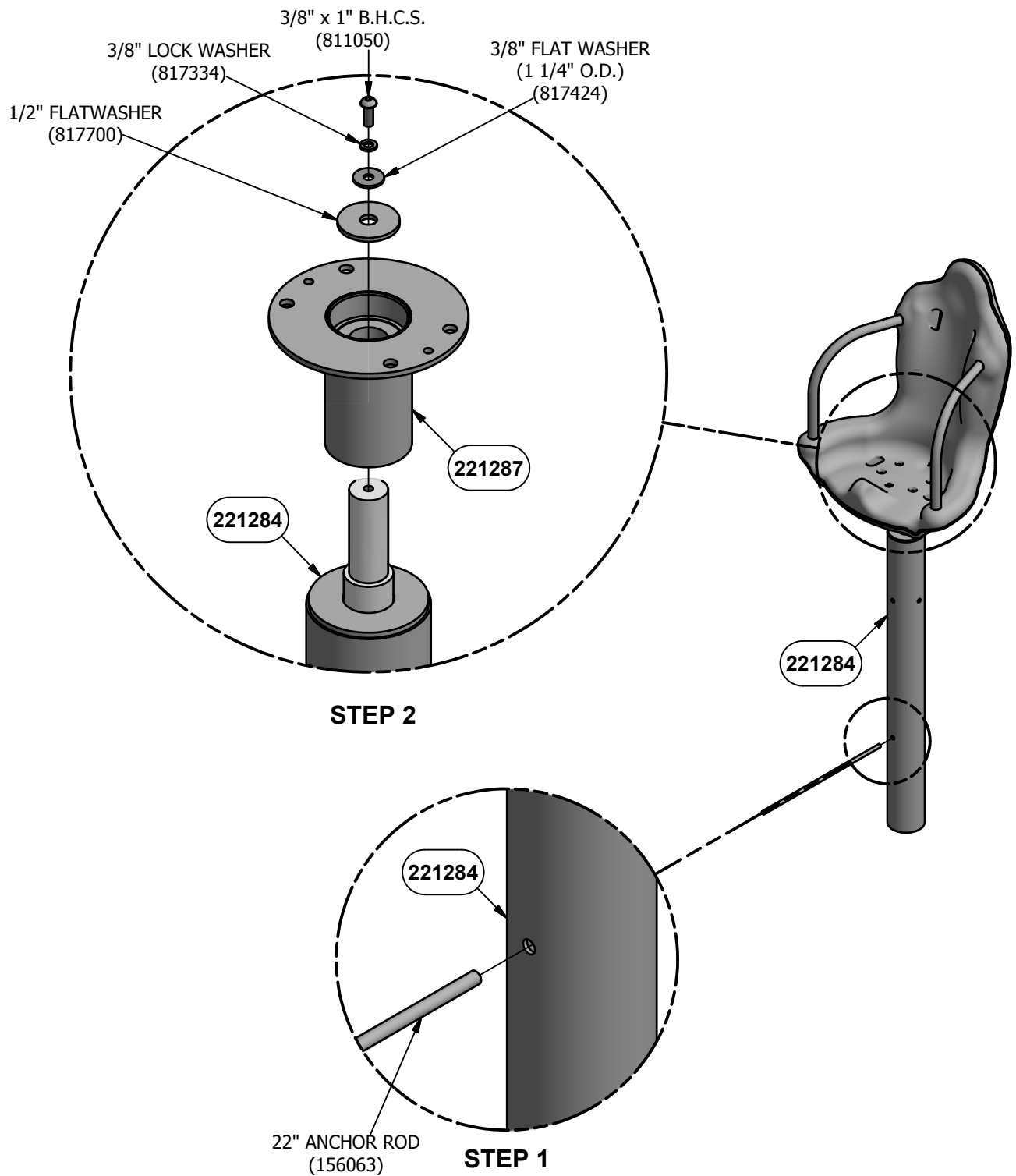
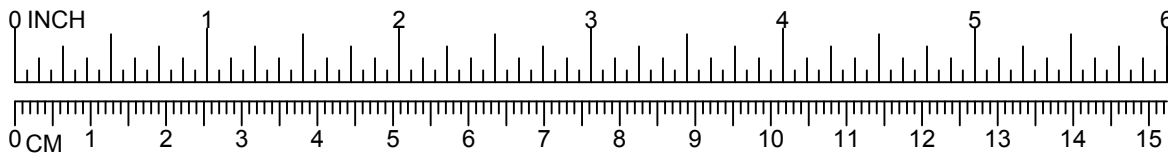


ELEVATION VIEW



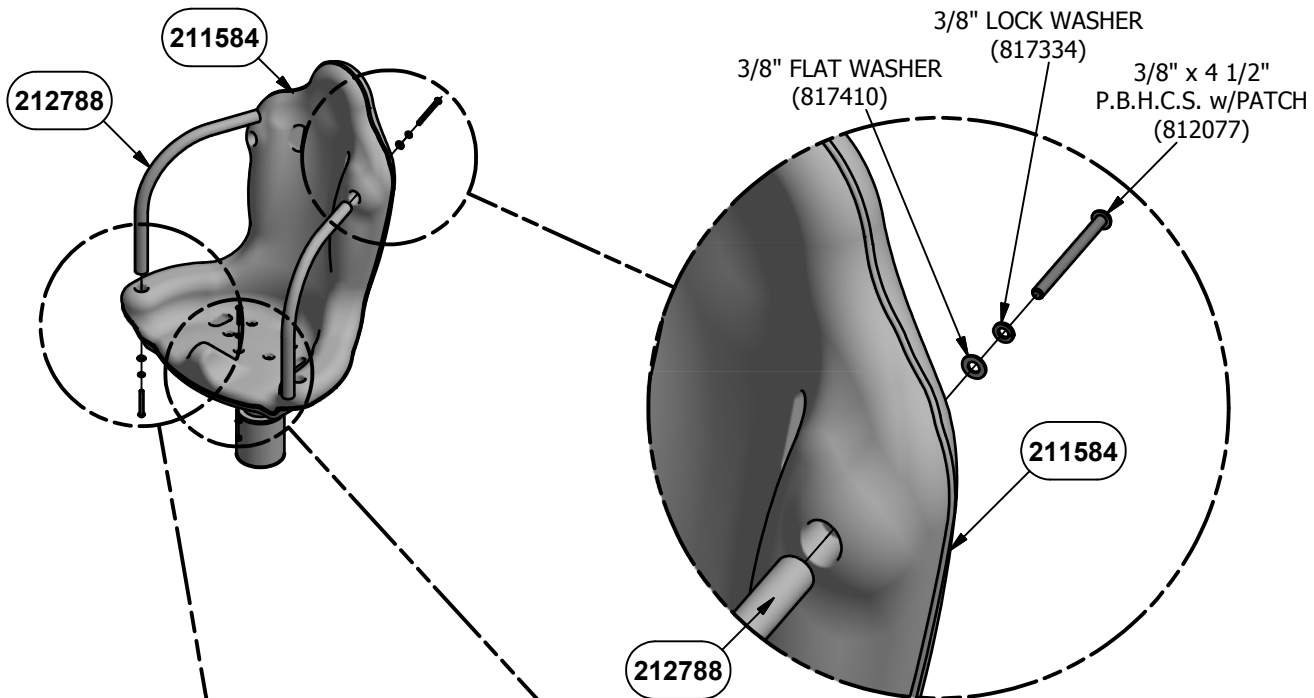
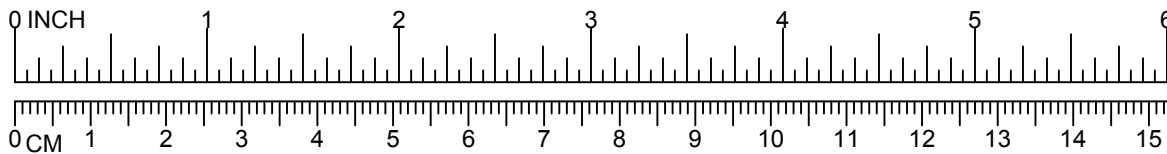
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

FOOTING DETAIL

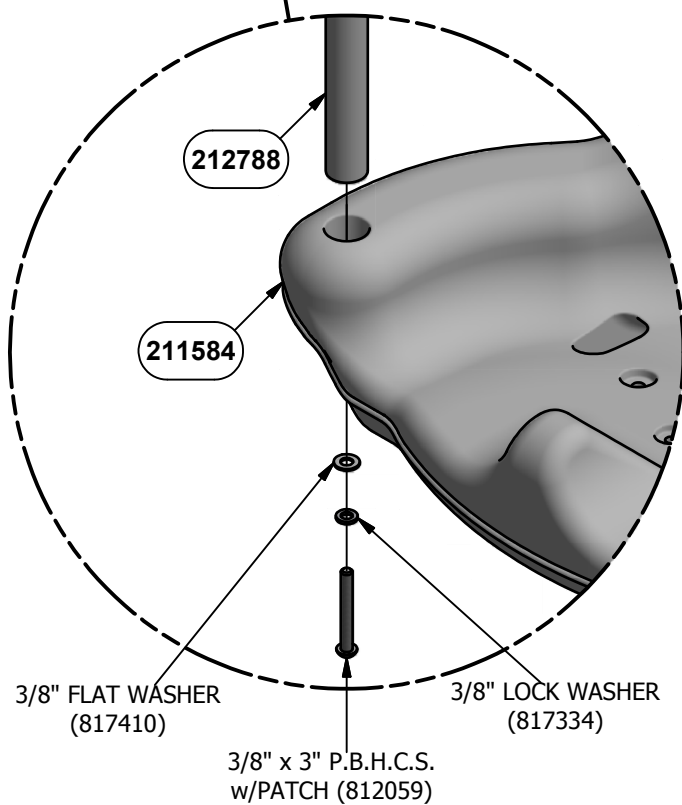


**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

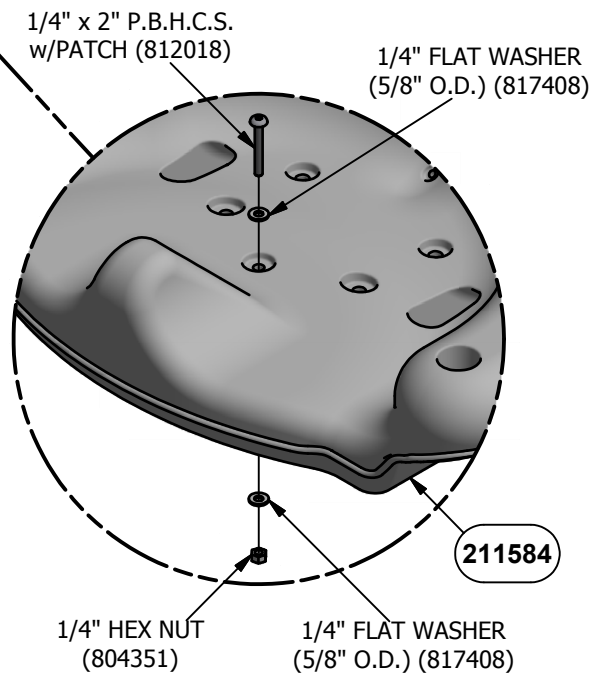
DETAIL VIEW



STEP 3
2 PLACES

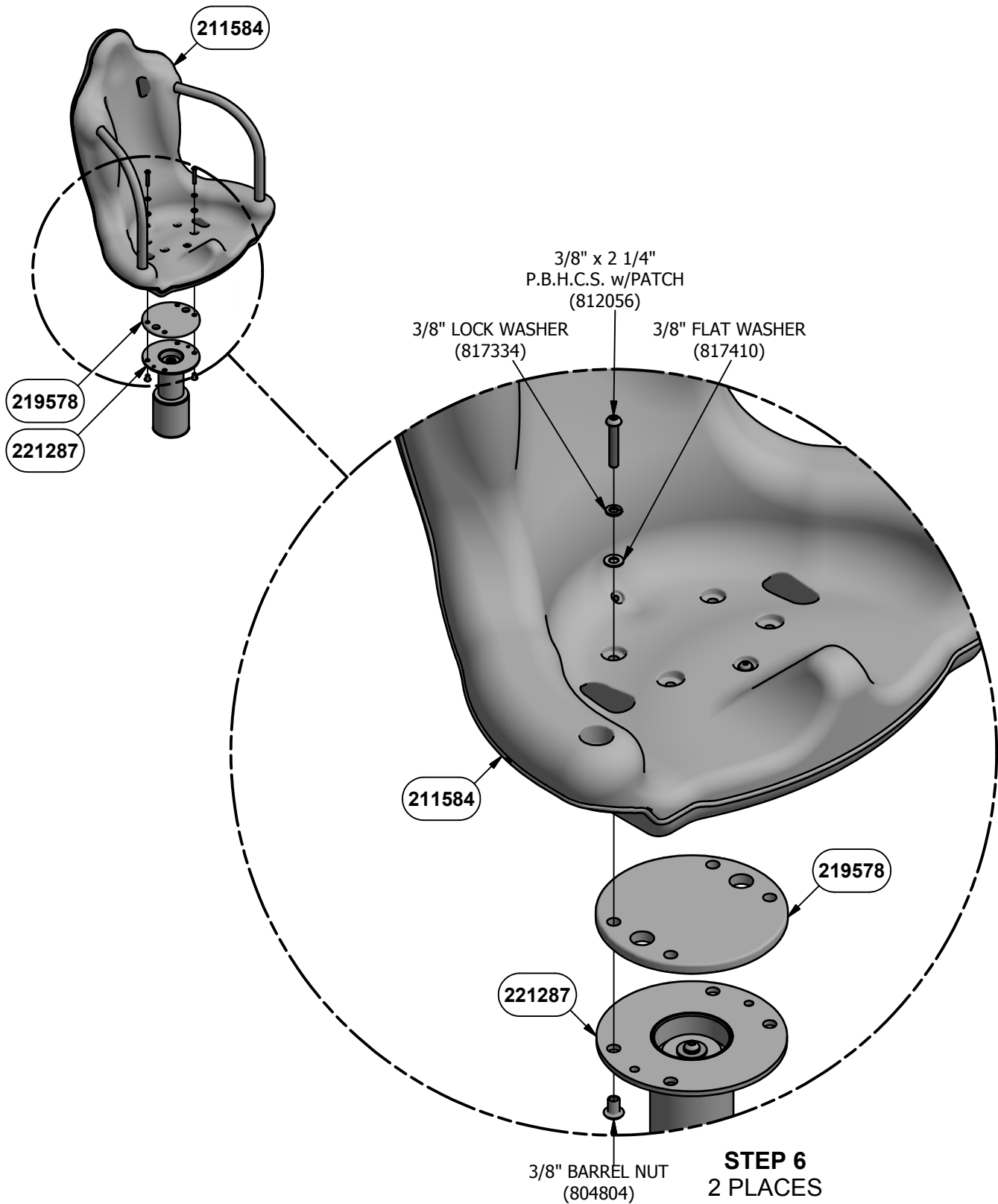
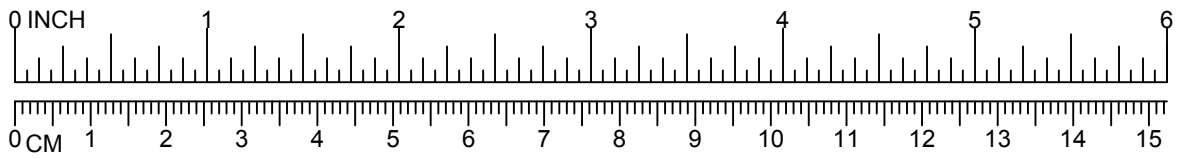


STEP 4
2 PLACES



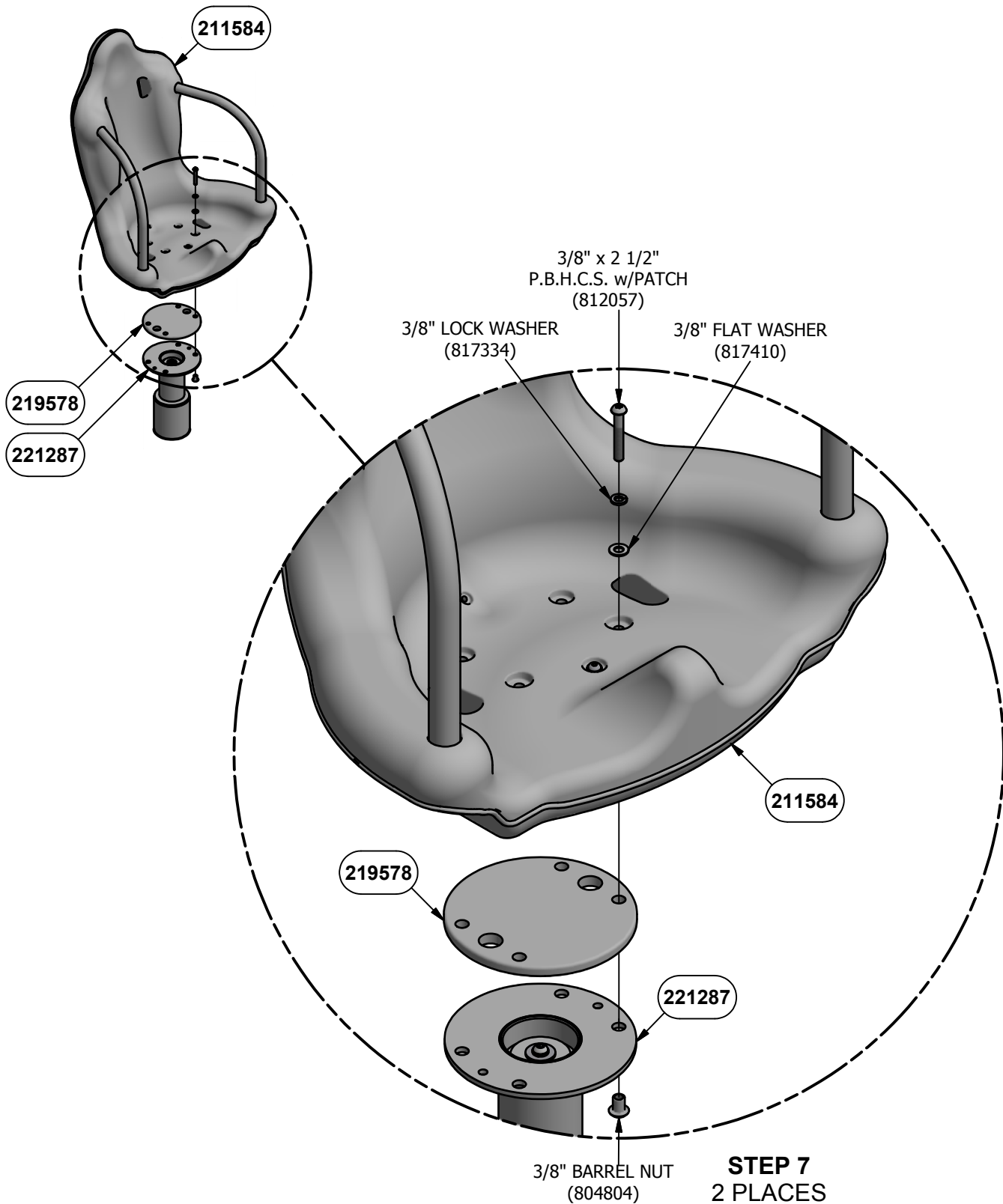
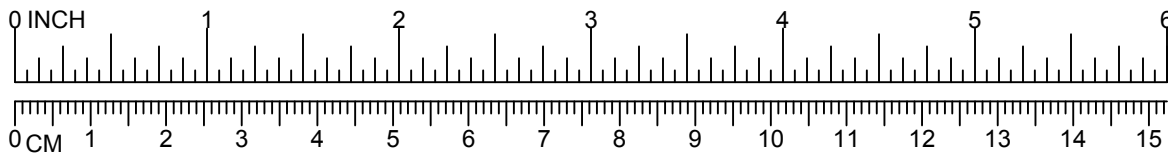
STEP 5

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.



**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW



**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: Refer to the Detail Views for the specific hardware required in each connection.

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

STEP 1: Attach 22" Anchor Rod (156063) to Ground Shaft Weld Assembly. **REFER TO PAGE 4.**

STEP 2: Attach Hub Bearing Assembly to Ground Shaft Weld Assembly. **REFER TO PAGE 4.**

STEP 3: Attach Spinning Seat Handhold Assembly to Sensory Wave Seat. **REFER TO PAGE 5.**

STEP 4: Attach Spinning Seat Handhold Assembly to Sensory Wave Seat. **REFER TO PAGE 5.**

STEP 5: Attach 1/4" x 2" P.B.H.C.S. w/Patch, 1/4" Flat Washer (5/8" O.D.) (817408), 1/4" Flat Washer (5/8" O.D.) (817408), & 1/4" Hex Nut (804351) to Sensory Wave Seat. **REFER TO PAGE 5.**

STEP 6: Attach Sensory Wave Seat, & Cover Plate to Hub Bearing Assembly. **REFER TO PAGE 6.**

STEP 7: Attach Sensory Wave Seat, & Cover Plate to Hub Bearing Assembly. **REFER TO PAGE 7.**

NOTE: After installation, the height from bottom of the seat should be 1'- 5/16" [31.33 cm] above the Finished Surface.

SPECIFICATIONS

SENSORY WAVE SEAT: Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

HUB BEARING ASSEMBLY: Shall be fabricated from a machined 3 1/2" O.D. x .300" wall black steel tubing (SCH 80), 1/4" Thick H.R. Steel, and have two bearings press fit into the Weld Assembly. Assembly shall be an all weld assembly coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

GROUND SHAFT WELD ASSEMBLY: Shall be fabricated from a machined 2" O.D. cold rolled steel Shaft, 3-1/2" O.D. x .180" (7 Gauge) wall galvanized steel tubing, and 1/4" Thick H.R. Steel. Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

SPINNING SEAT HANDHOLD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing and threaded crimped insert. Fabricated Part shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

COVER PLATE: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

Parts List		
DESCRIPTION	QTY	PART NUMBER
SENSORY WAVE SEAT	1	211584
HUB BEARING ASSEMBLY	1	221287
GROUND SHAFT WELD ASSEMBLY	1	221284
SPINNING SEAT HANDHOLD ASSEMBLY	2	212788
COVER PLATE	1	219578
HARDWARE COMPLETE	1	221292
1/4" x 2" P.B.H.C.S. w/PATCH	1	812018*
1/4" FLAT WASHER (5/8" O.D.)	2	817408*
1/4" HEX NUT	1	804351*
3/8" x 1" B.H.C.S.	1	811050*
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056*
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	2	812057*
3/8" x 3" P.B.H.C.S. w/PATCH	2	812059*
3/8" x 4 1/2" P.B.H.C.S. w/PATCH	2	812077*
3/8" BARREL NUT	4	804804*
3/8" FLAT WASHER	8	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	1	817424*
3/8" LOCK WASHER	9	817334*
1/2" FLAT WASHER	1	817700*
22" ANCHOR ROD	1	156063*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.





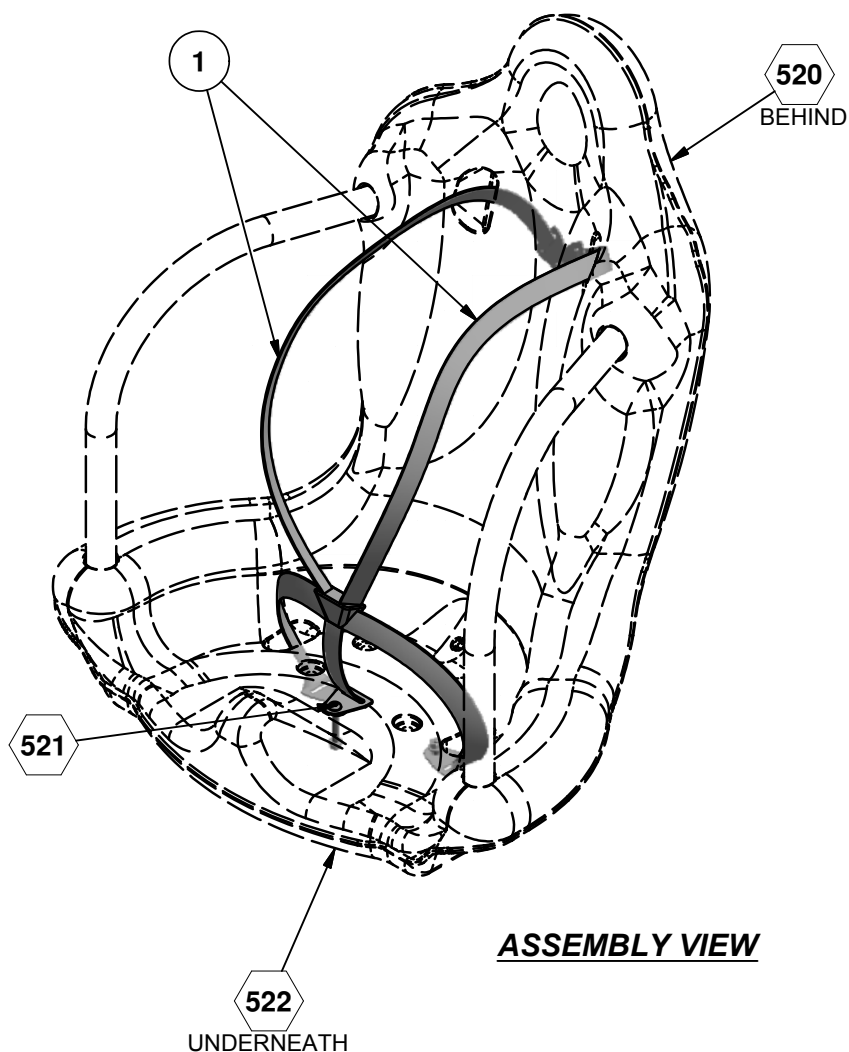
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17257

SENSORY WAVE SAFETY BELT KIT

ISSUED/REVISED: 7/11/2016

-  = INSTALLATION
DETAIL
-  = PARTS LIST
REFERENCE



INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all the instructions during assembly.
2. Assemble parts as shown in the *Assembly Drawing*. Refer to the assembly details for the specific hardware required in each connection.

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	ADAPTIVE SWING SAFETY BELT	1	167111
	HARDWARE COMPLETE	1	211955
	1/4" x 1/2" B.H.C.S. w/PATCH	1	812011*
	1/4" x 3/4" B.H.C.S.	2	811010*
	1/4" x 2" P.B.H.C.S. w/Patch	1	812018*
	1/4" FLAT WASHER (5/8" O.D.)	4	817408*
	1/4" HEX NUT	3	804351*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

DETAILS -for-

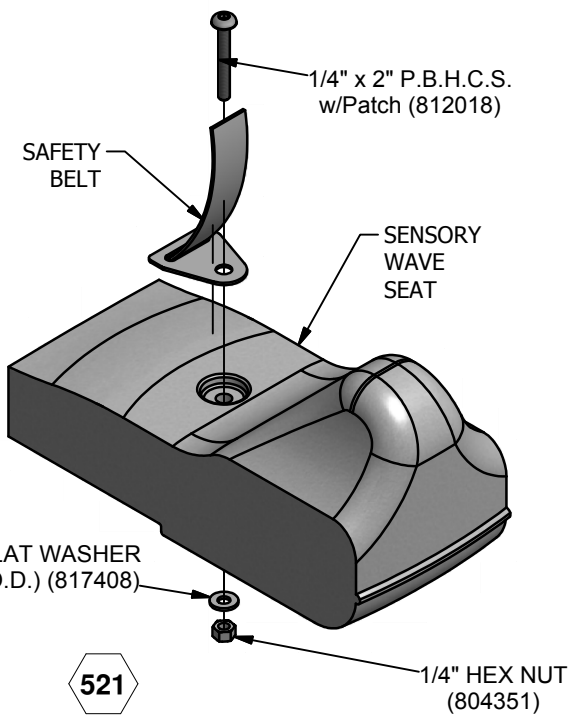
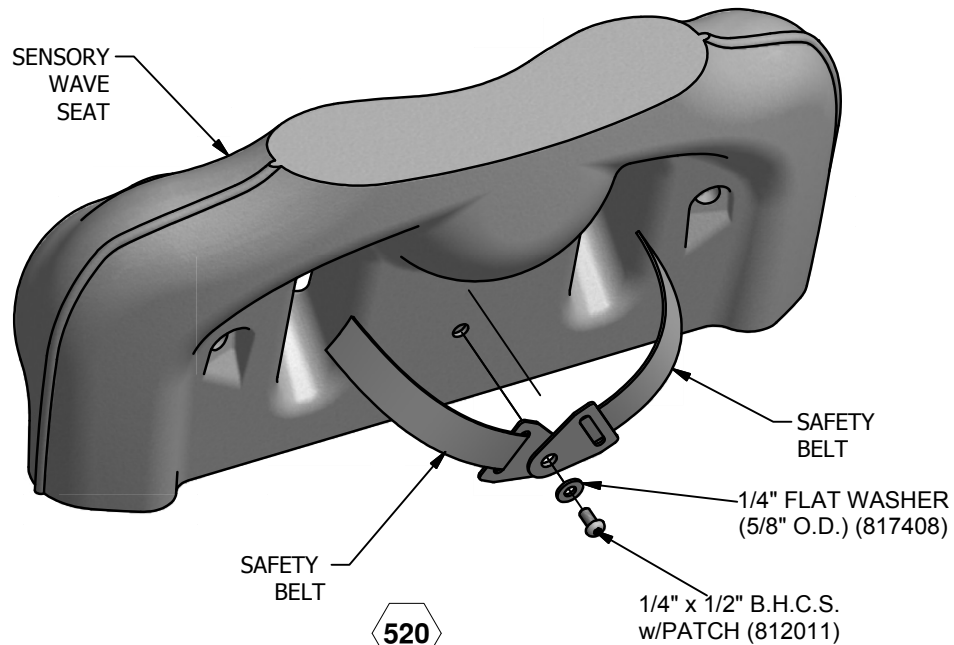
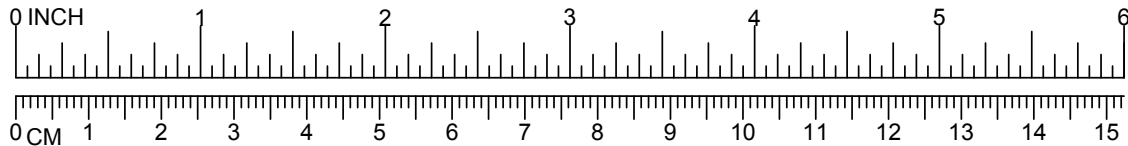
17257

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DETAILS -for-

17257

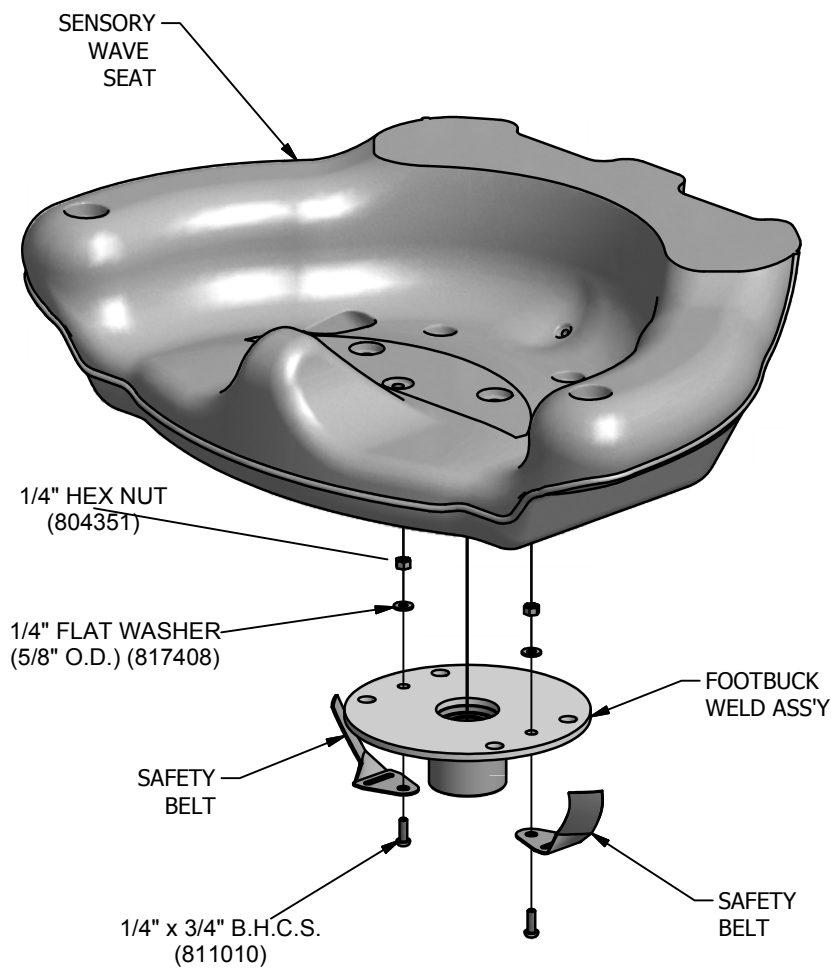
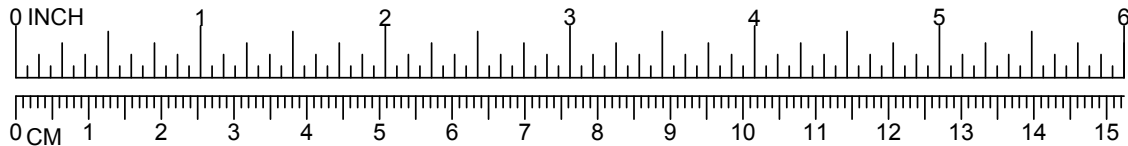
IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED

SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



NOTE:
FEED SAFETY BELTS THROUGH
SEAT AND ATTACH BEFORE
ATTACHING SEAT TO PLATE.

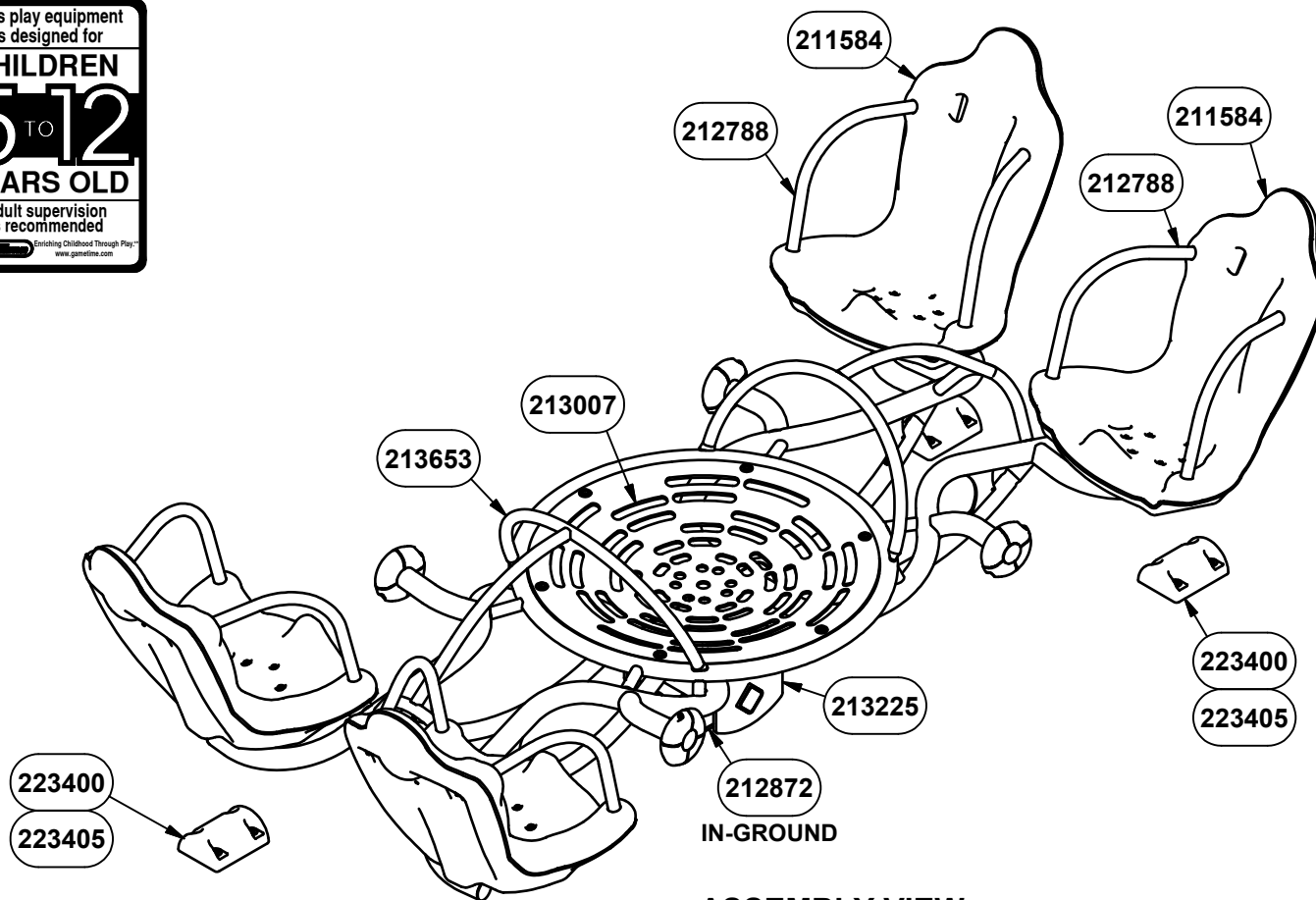


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6245

**ROX ALL
SEE SAW**

ISSUED/REVISED: 11/26/2024



ASSEMBLY VIEW

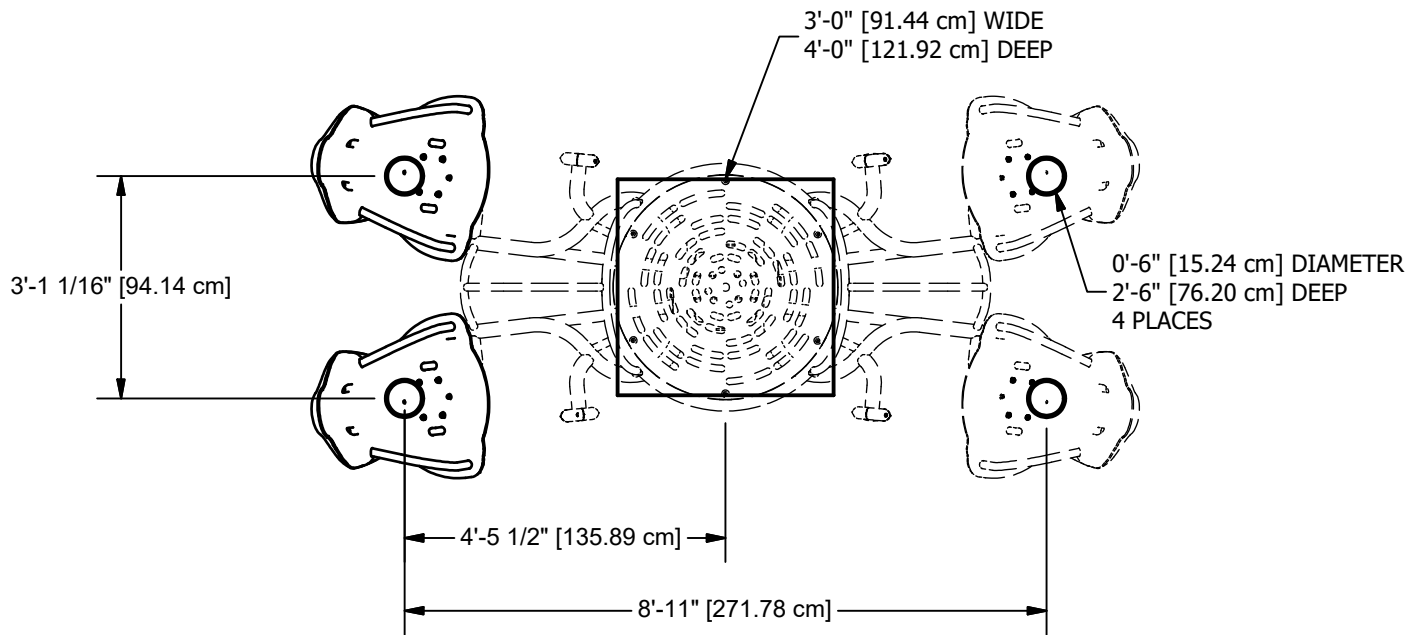
OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).

THE ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE ARE DETERMINED BY EXTENDING THE PRODUCT OUTSIDE DIMENSIONS SHOWN A MINIMUM ADDITIONAL DISTANCE OF 6'-0" [1.83M] TO THE SIDES AND A MINIMUM 7'-0" [2.13M] AT EACH END.

FOR CANADIAN INSTALLATIONS, PRODUCT REQUIRES A NO ENCROACHMENT ZONE EXTENDING AT LEAST 6'-0" [1.83M] BEYOND THE CSA PROTECTIVE SURFACING ZONE.

INSTALLATION INSTRUCTIONS

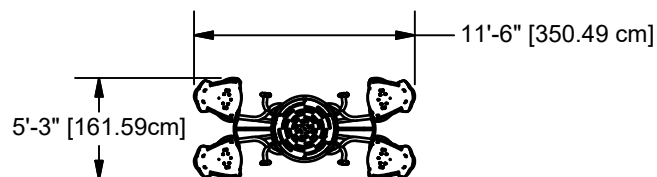
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**



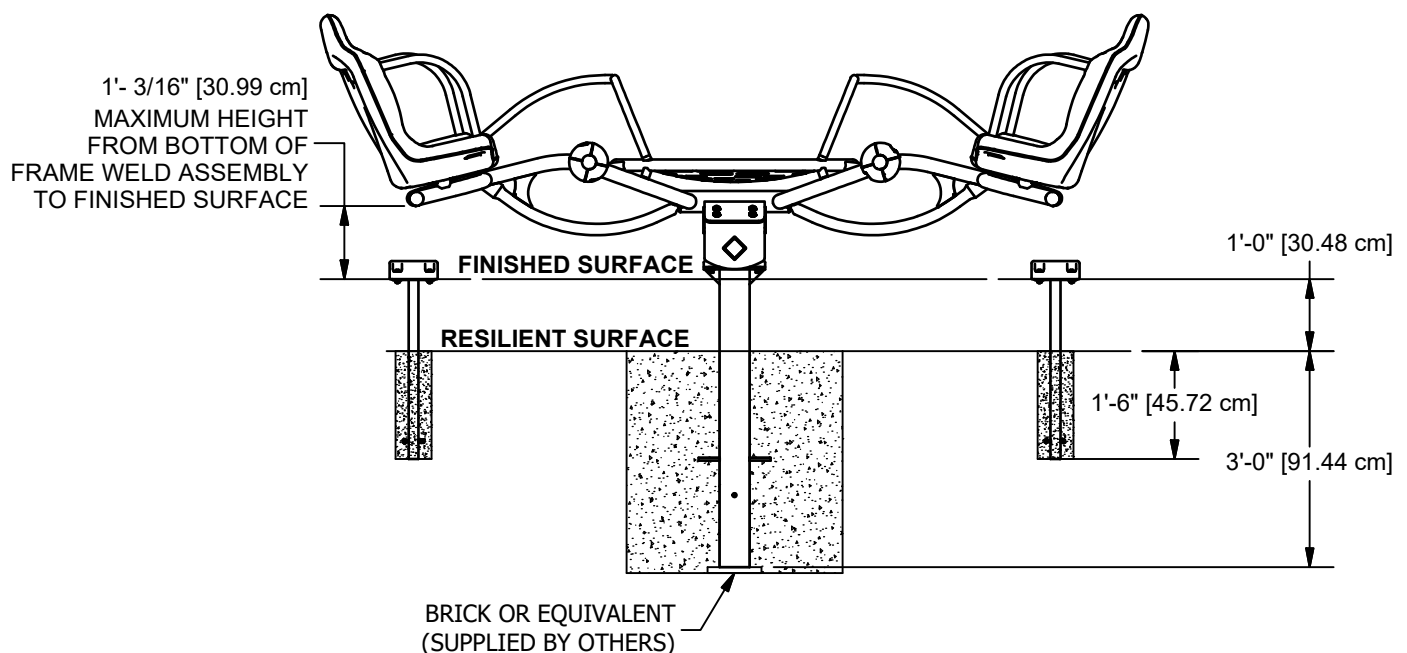
PLAN VIEW
LOOSE-FILL SURFACING

CONCRETE REQUIRED:
1.04 CUBIC YARDS
[0.8 CUBIC METERS]

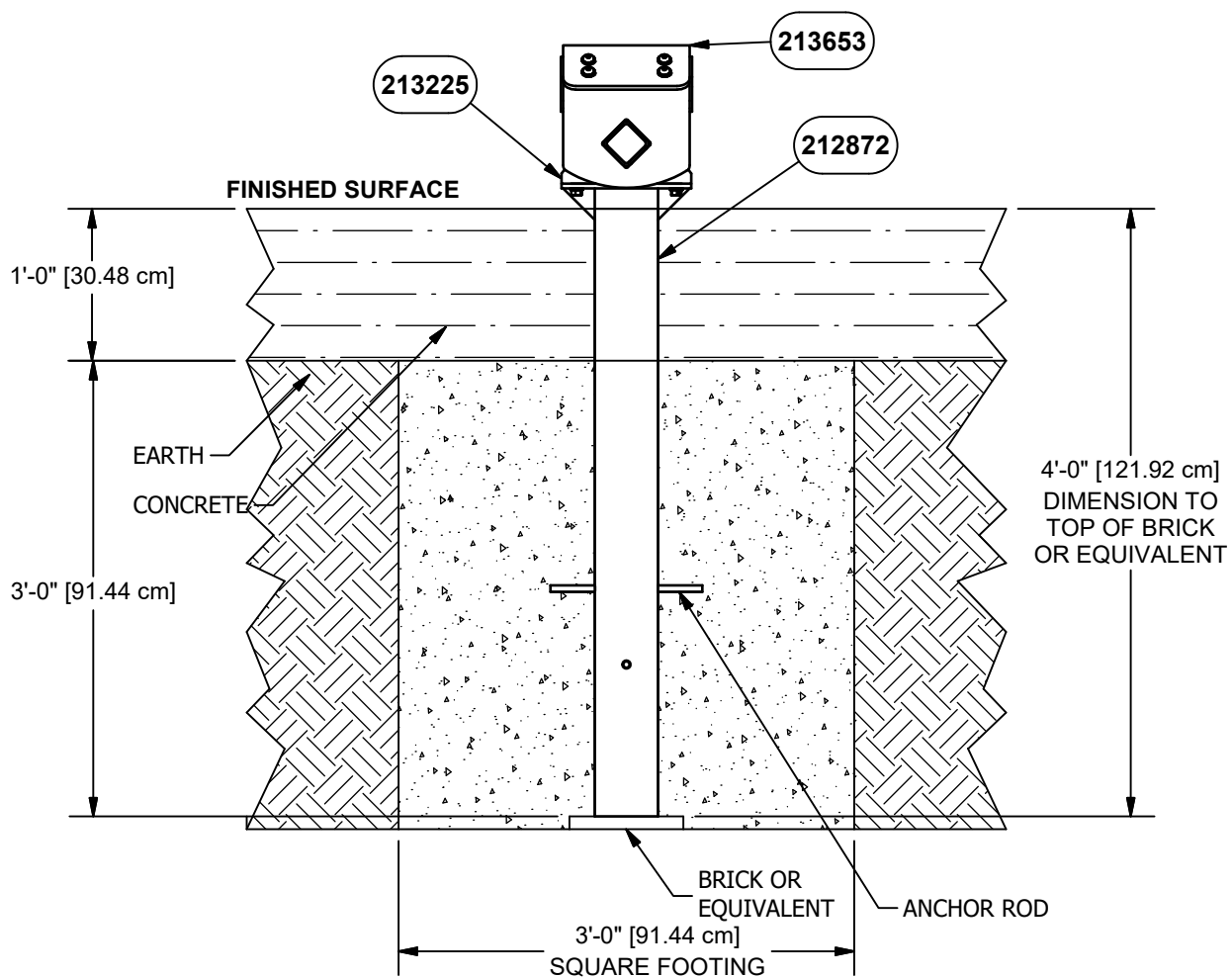
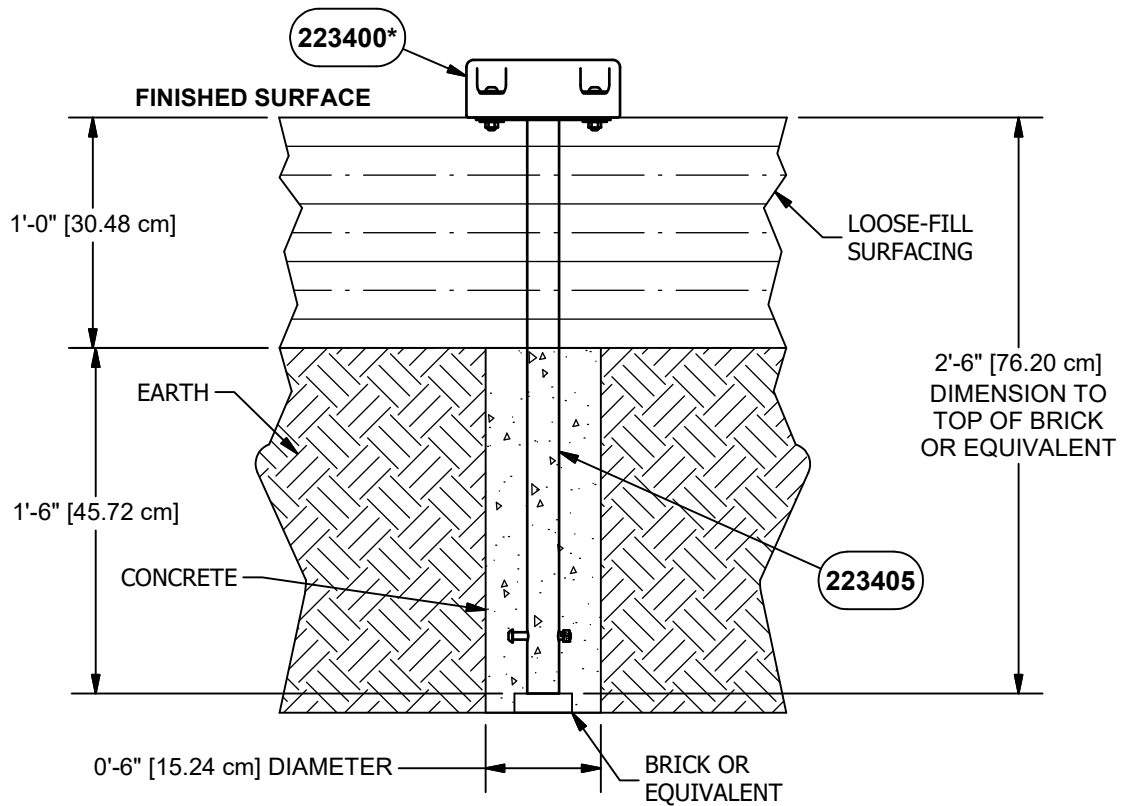
NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.



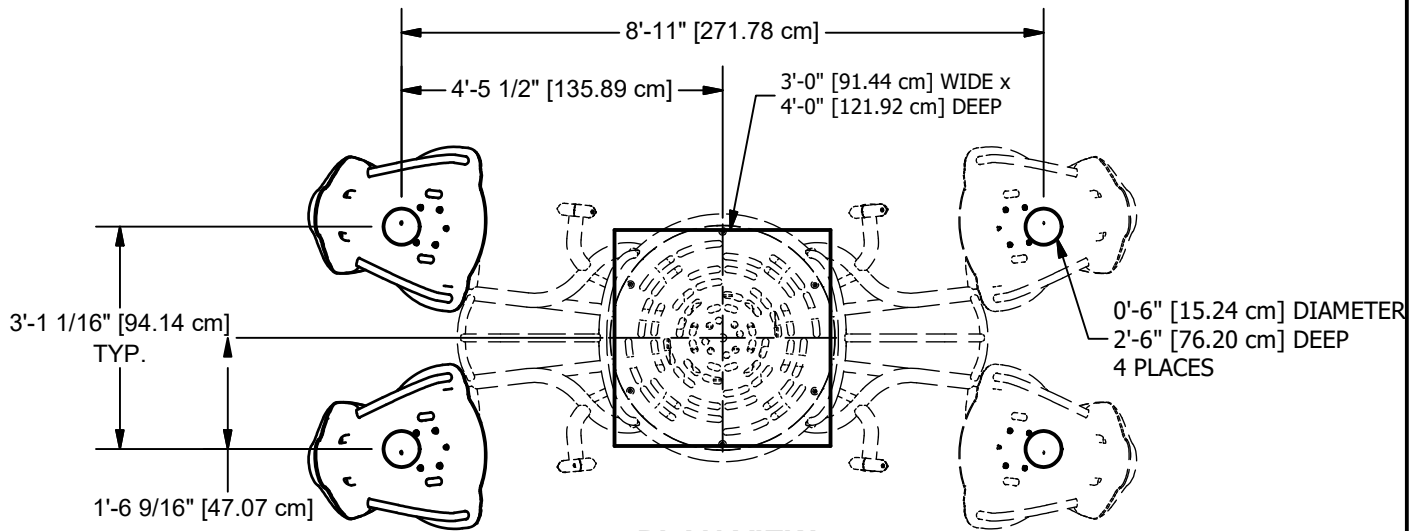
TOP VIEW



ELEVATION VIEW
LOOSE-FILL SURFACING



FOOTING DETAILS
LOOSE-FILL SURFACING

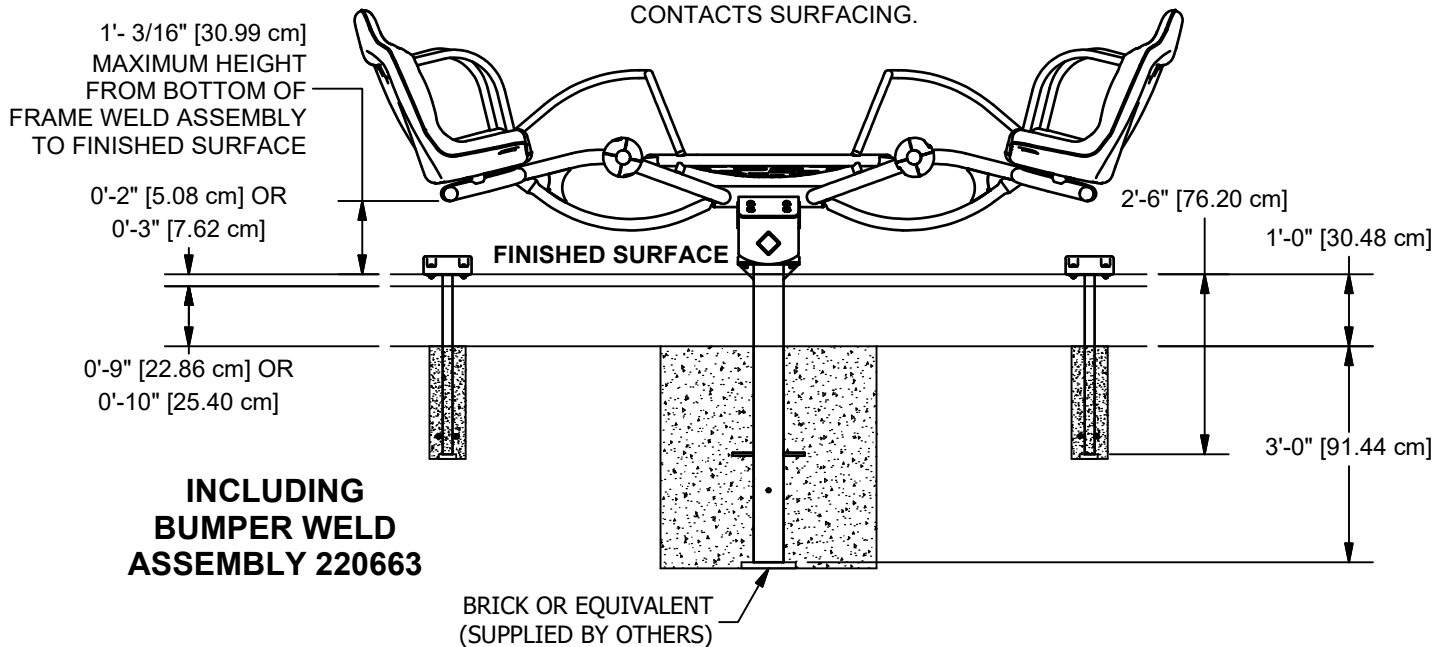


PLAN VIEW
POURED IN PLACE, TILE, OR
BONDED RUBBER SURFACING

NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

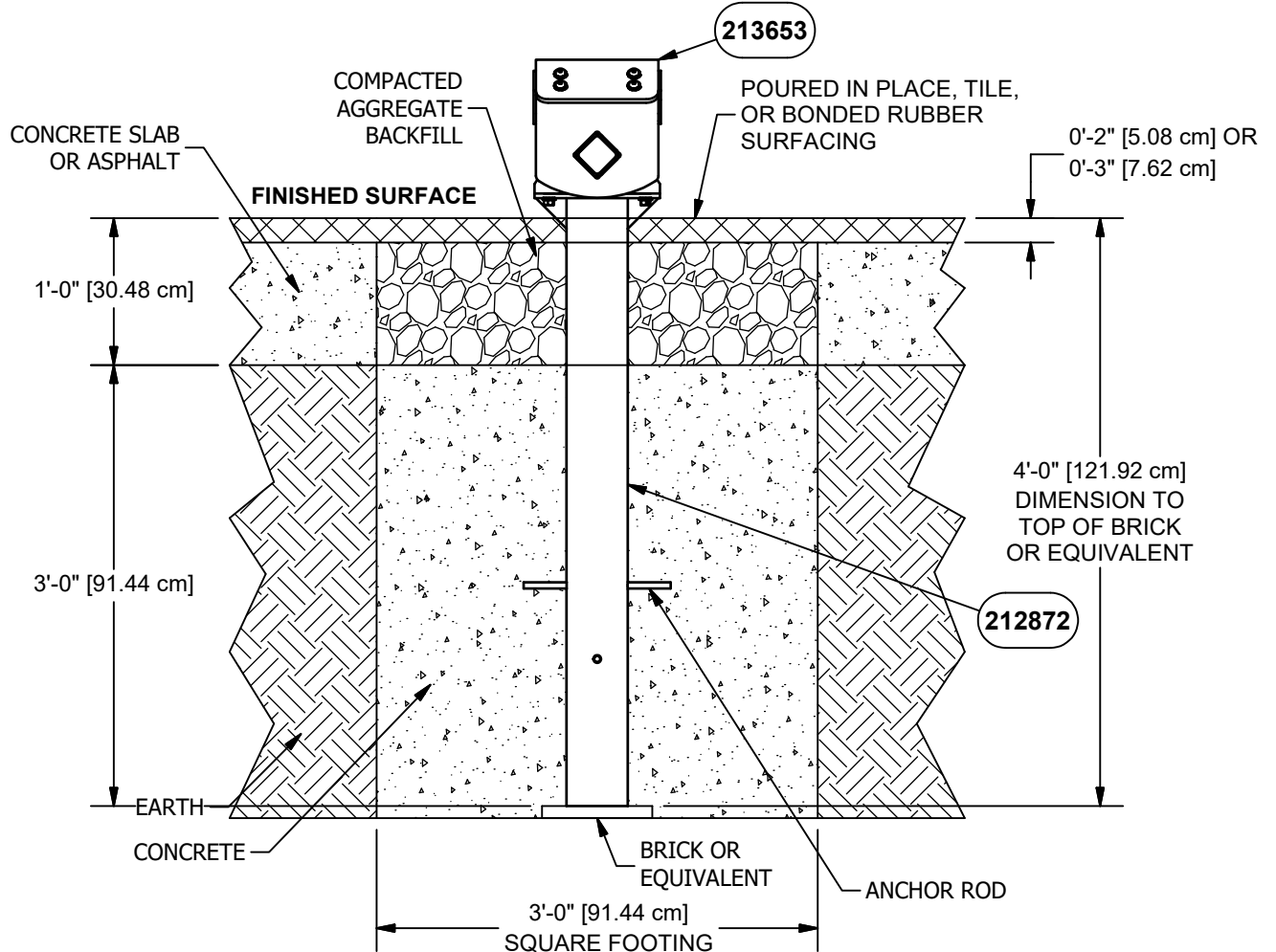
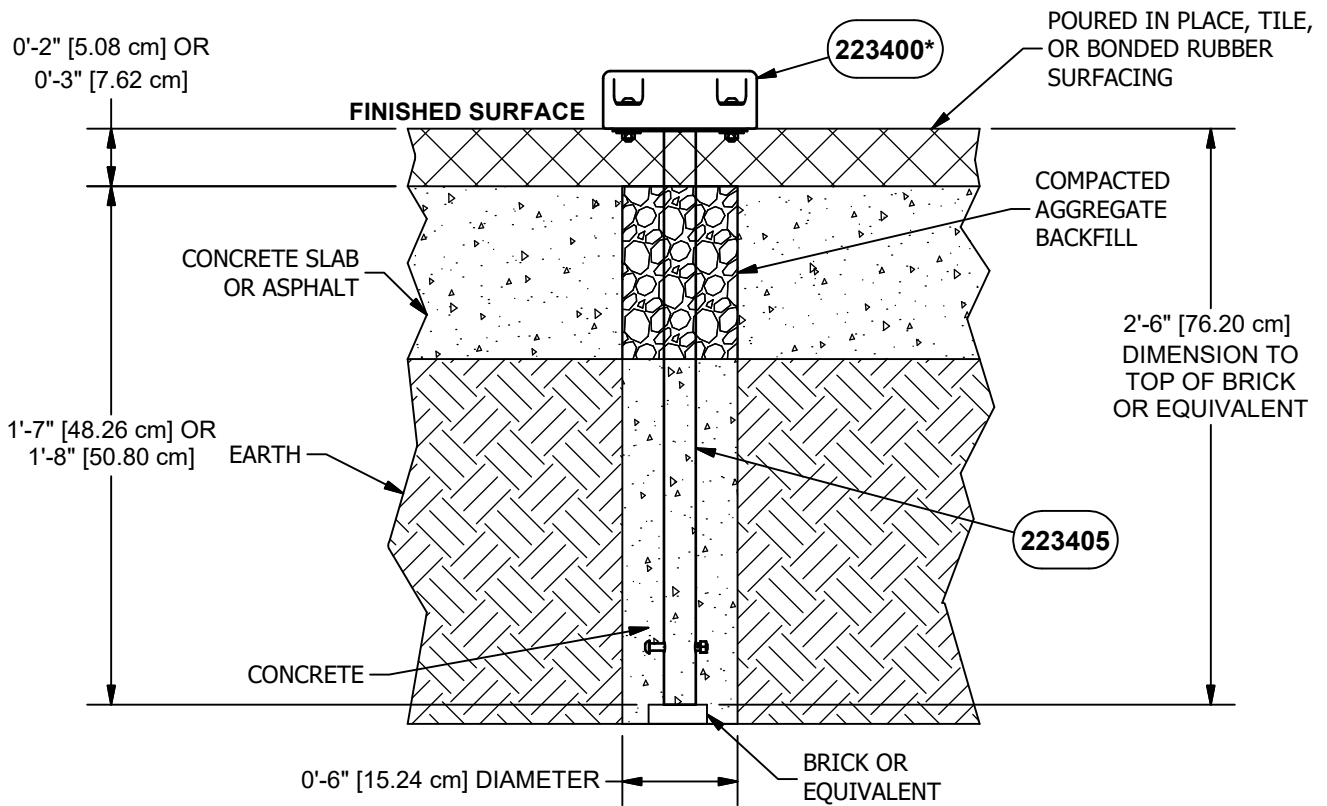
CONCRETE REQUIRED:
1.04 CUBIC YARDS
[0.8 CUBIC METERS]

NOTE: TO ENSURE PROPER PLACEMENT OF BUMPER WELD ASSEMBLY, CHECK ALIGNMENT BY PLACING WHERE ROX ALL SEE SAW CONTACTS SURFACING.

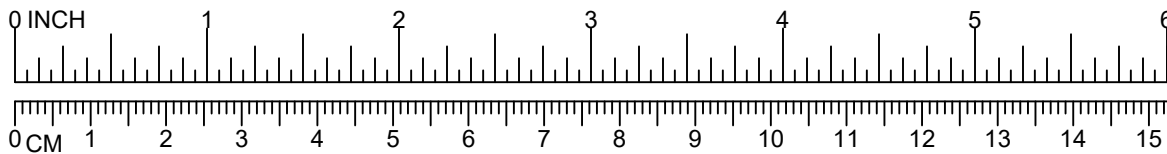


**INCLUDING
BUMPER WELD
ASSEMBLY 220663**

ELEVATION VIEW
POURED IN PLACE, TILE, OR
BONDED RUBBER SURFACING



FOOTING DETAILS
POURED IN PLACE, TILE, OR
BONDED RUBBER SURFACING



NOTE: TORQUE BOLT TO
35 FT/LBS

1/2" x 1 1/2" B.H.C.S.
(811073)
1/2" NORD LOC
WASHER (817742)

213225

1/2" NORD LOC
WASHER (817742)

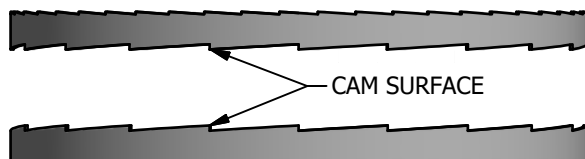
1/2" LOCKNUT
(804355)

STEP 2
4 PLACES

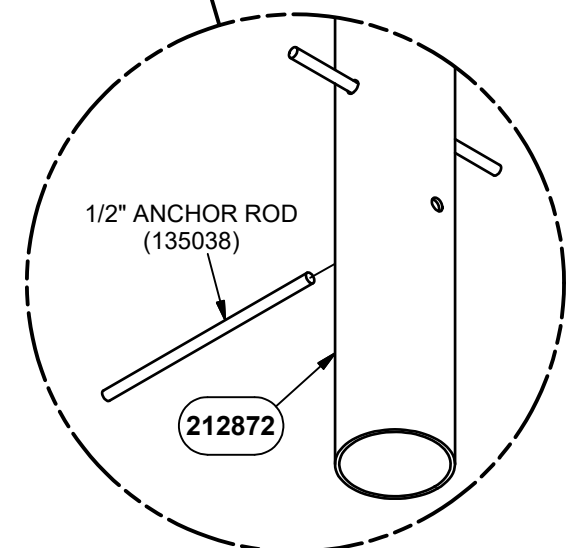
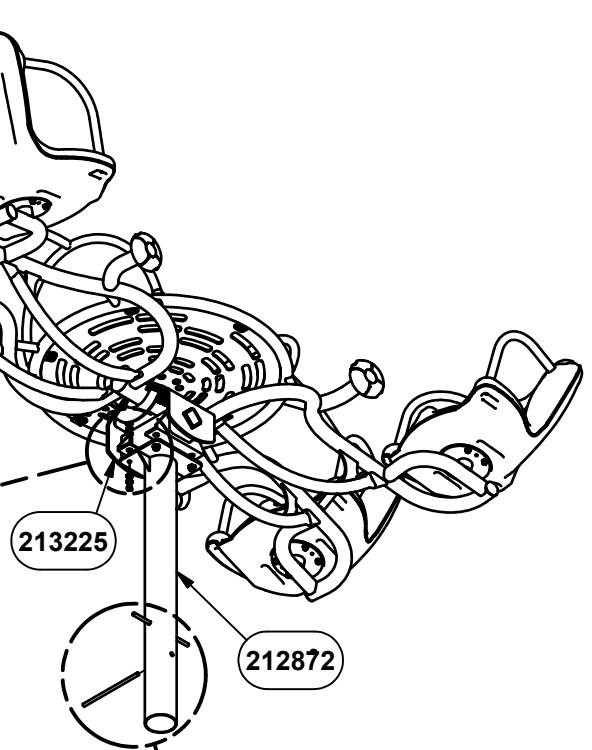
NOTE: APPLY LOCTITE (SUPPLIED BY OTHERS)
TO THIS CONNECTION.

WARNING!

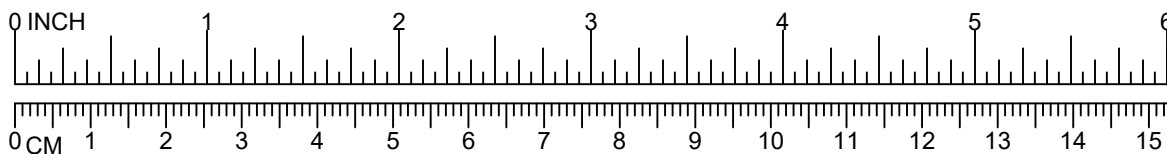
DISK-LOCK WASHERS MUST BE INSTALLED AS A SET.
WASHERS MAY COME APART DURING SHIPPING.
IF WASHERS HAVE SEPARATED, MAKE SURE
WASHERS ARE ORIENTED SO THAT THE CAM
SURFACES FACE EACH OTHER. FAILURE TO DO SO
WILL RESULT IN FAILURE OF THE LOCKING
MECHANISM. SEE ILLUSTRATION BELOW FOR
PROPER ORIENTATION.



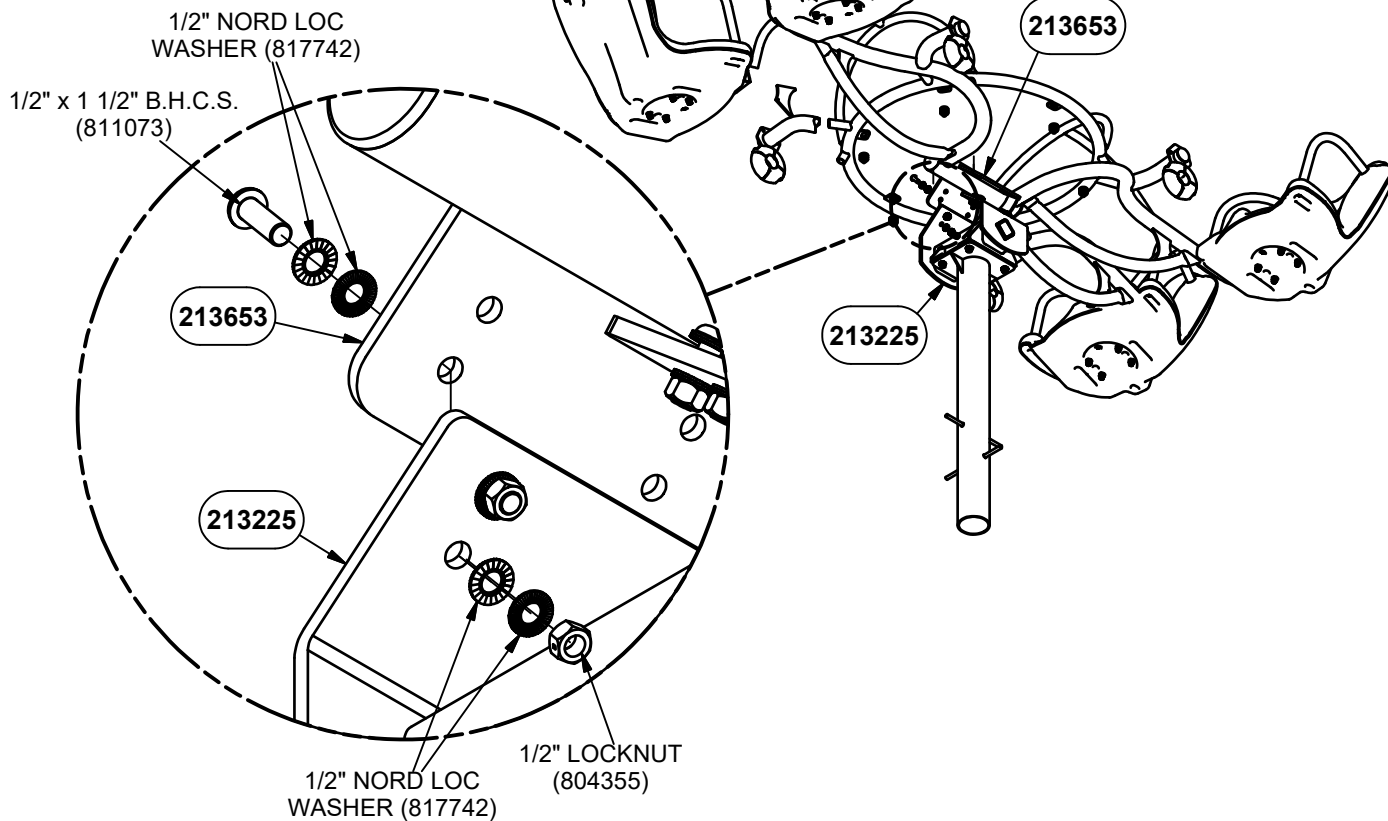
DETAIL VIEW



STEP 1
2 PLACES



NOTE: TORQUE BOLT TO
35 FT/LBS

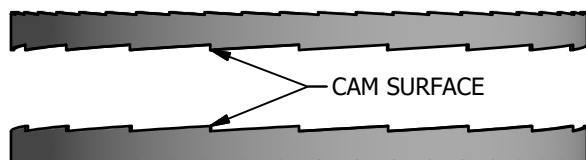


STEP 3 8 PLACES

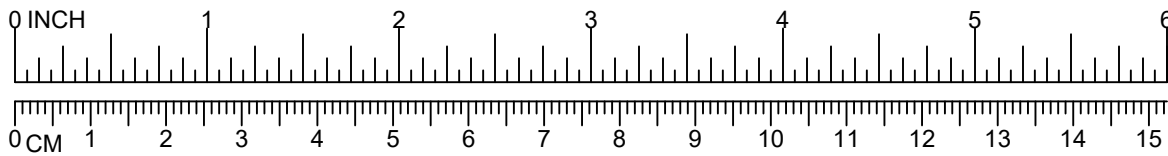
NOTE: APPLY LOCTITE (SUPPLIED BY OTHERS)
TO THIS CONNECTION.

WARNING!

DISK-LOCK WASHERS MUST BE INSTALLED AS A SET.
WASHERS MAY COME APART DURING SHIPPING.
IF WASHERS HAVE SEPARATED, MAKE SURE
WASHERS ARE ORIENTED SO THAT THE CAM
SURFACES FACE EACH OTHER. FAILURE TO DO SO
WILL RESULT IN FAILURE OF THE LOCKING
MECHANISM. SEE ILLUSTRATION BELOW FOR
PROPER ORIENTATION.



DETAIL VIEW



1/4" FLAT WASHER
(5/8" O.D.) (817408)

1/4" x 2" P.B.H.C.S.
w/PATCH (812018)

TOP OF SEAT

BOTTOM OF SEAT

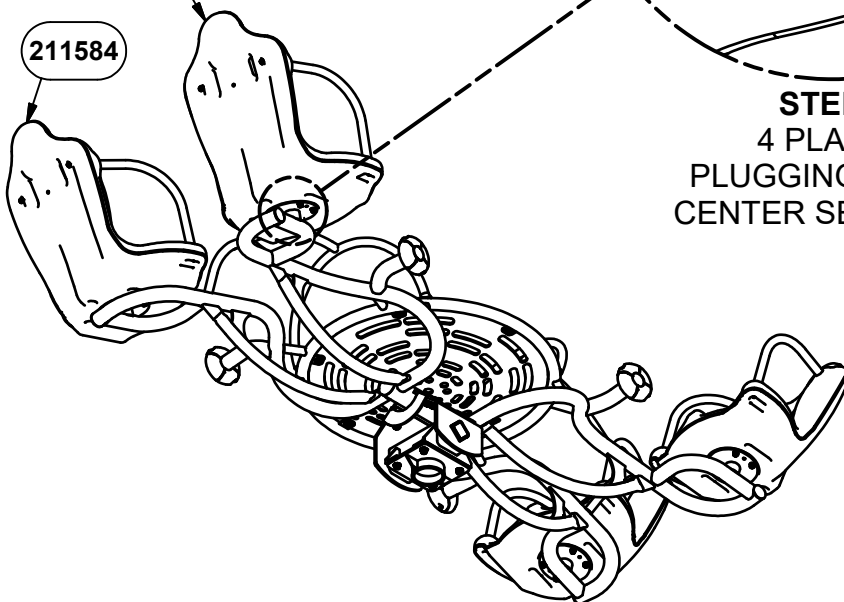
1/4" FLAT WASHER
(5/8" O.D.) (817408)

1/4" HEX NUT
(804351)

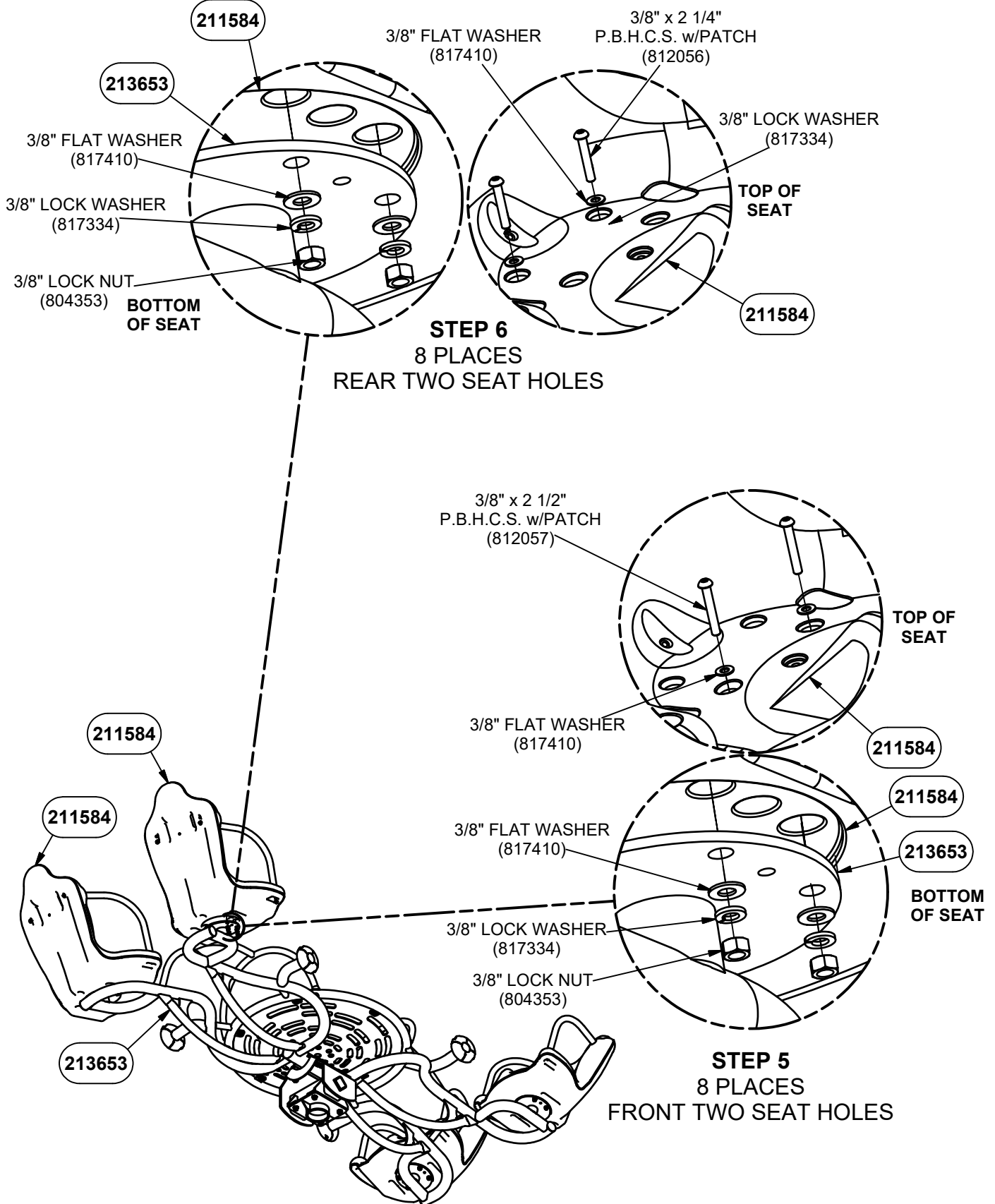
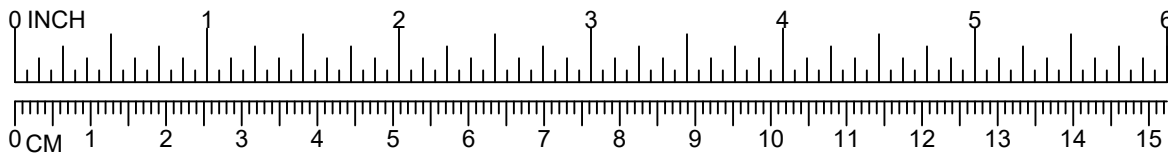
STEP 4
4 PLACES
PLUGGING FRONT
CENTER SEAT HOLE

211584

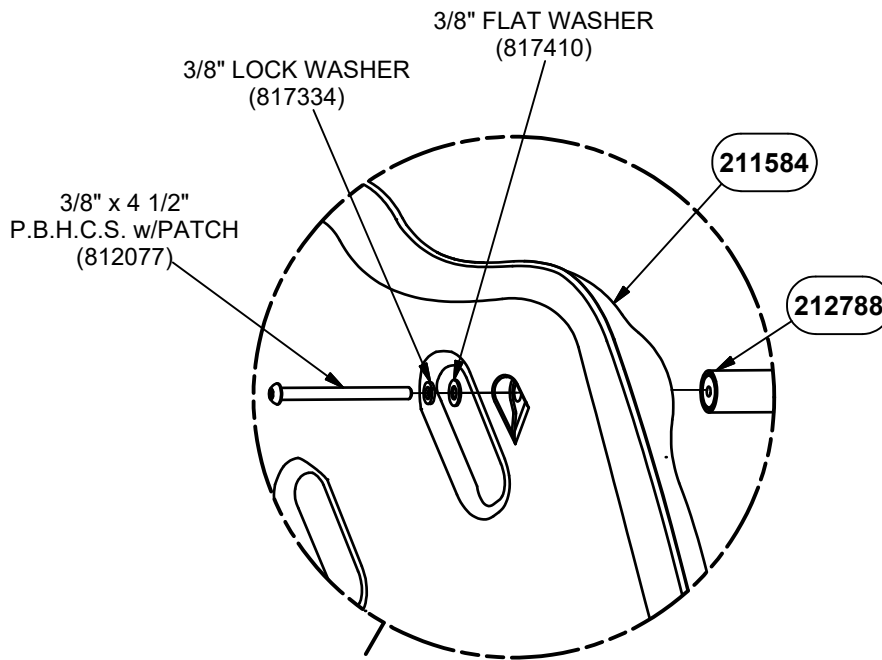
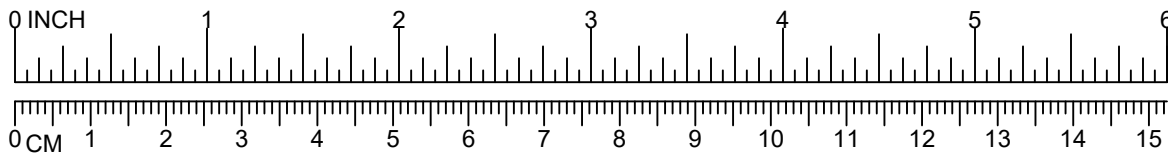
211584



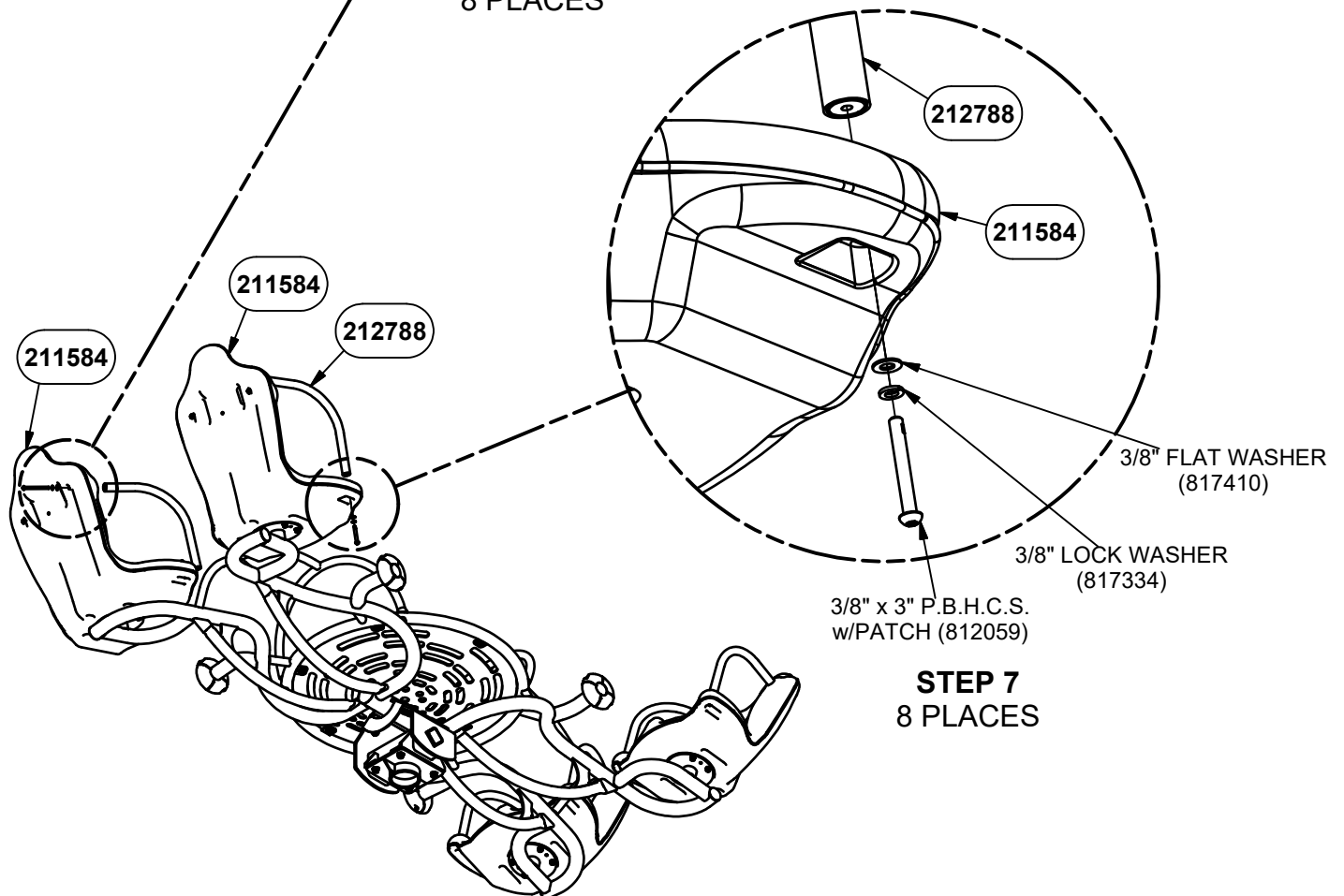
DETAIL VIEW



DETAIL VIEW

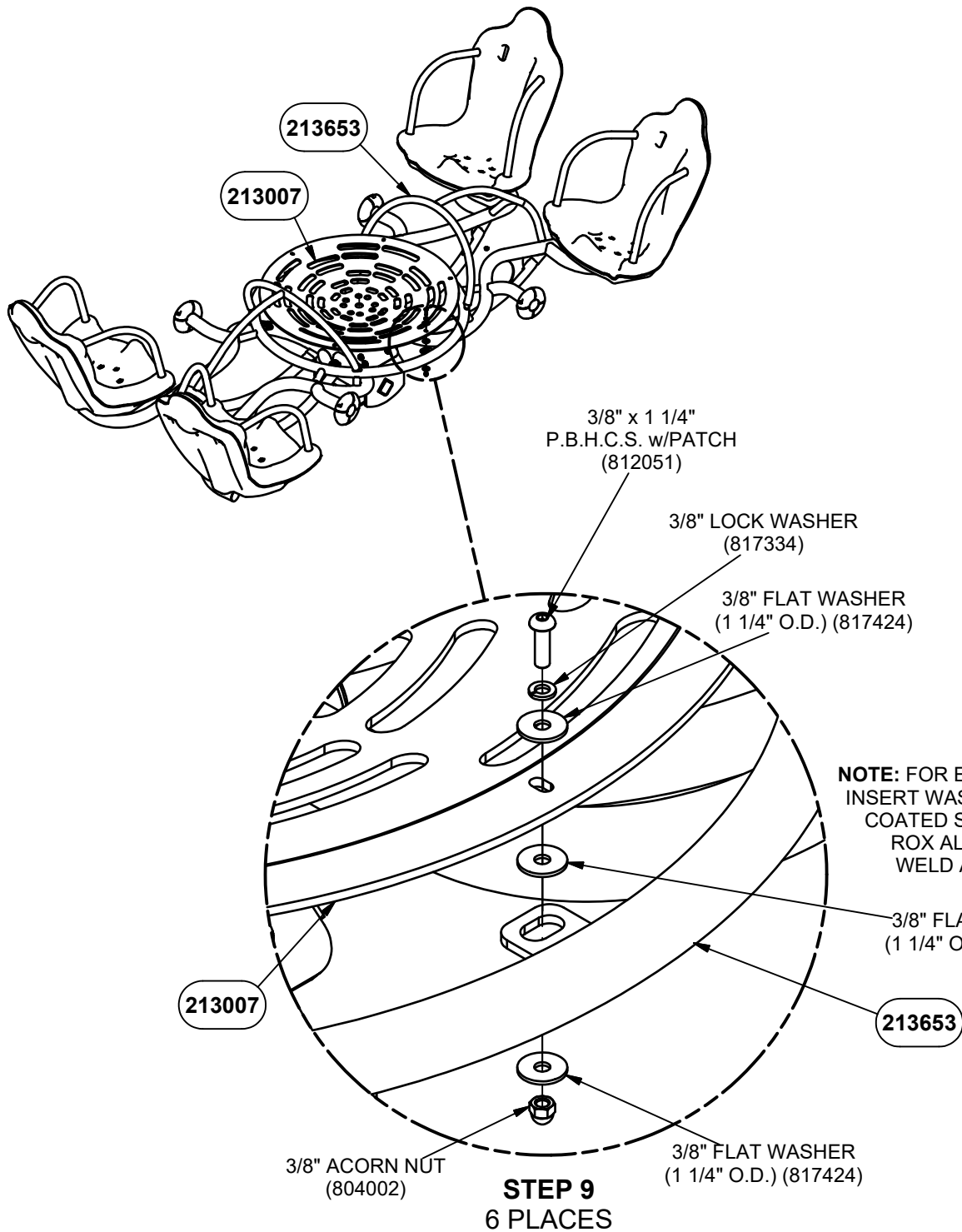
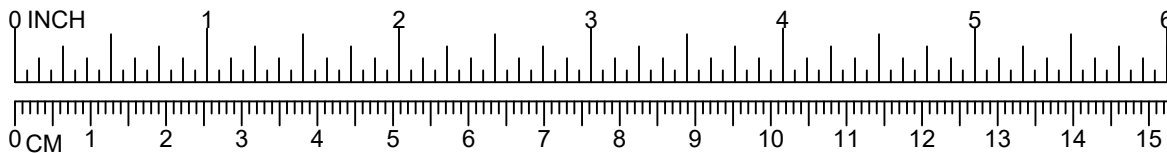


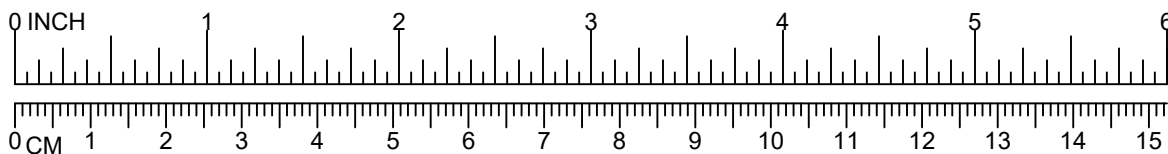
STEP 8
8 PLACES



STEP 7
8 PLACES

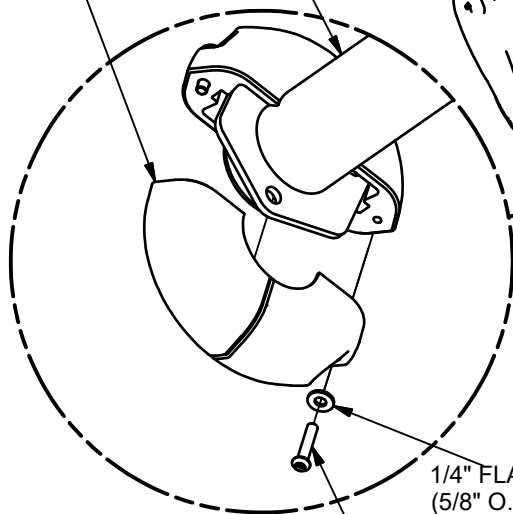
DETAIL VIEW





ROUND RUBBER
SHROUD (202065)

213653



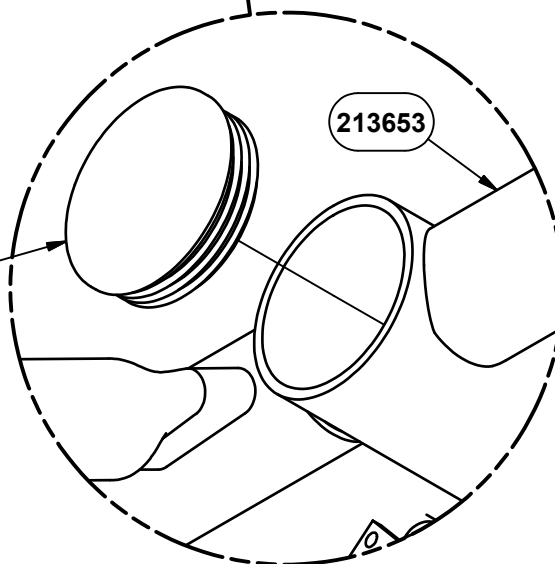
1/4" FLAT WASHER
(5/8" O.D.) (817408)

1/4" x 1 1/4"
P.B.H.C.S. (812083)

STEP 11
8 PLACES

213653

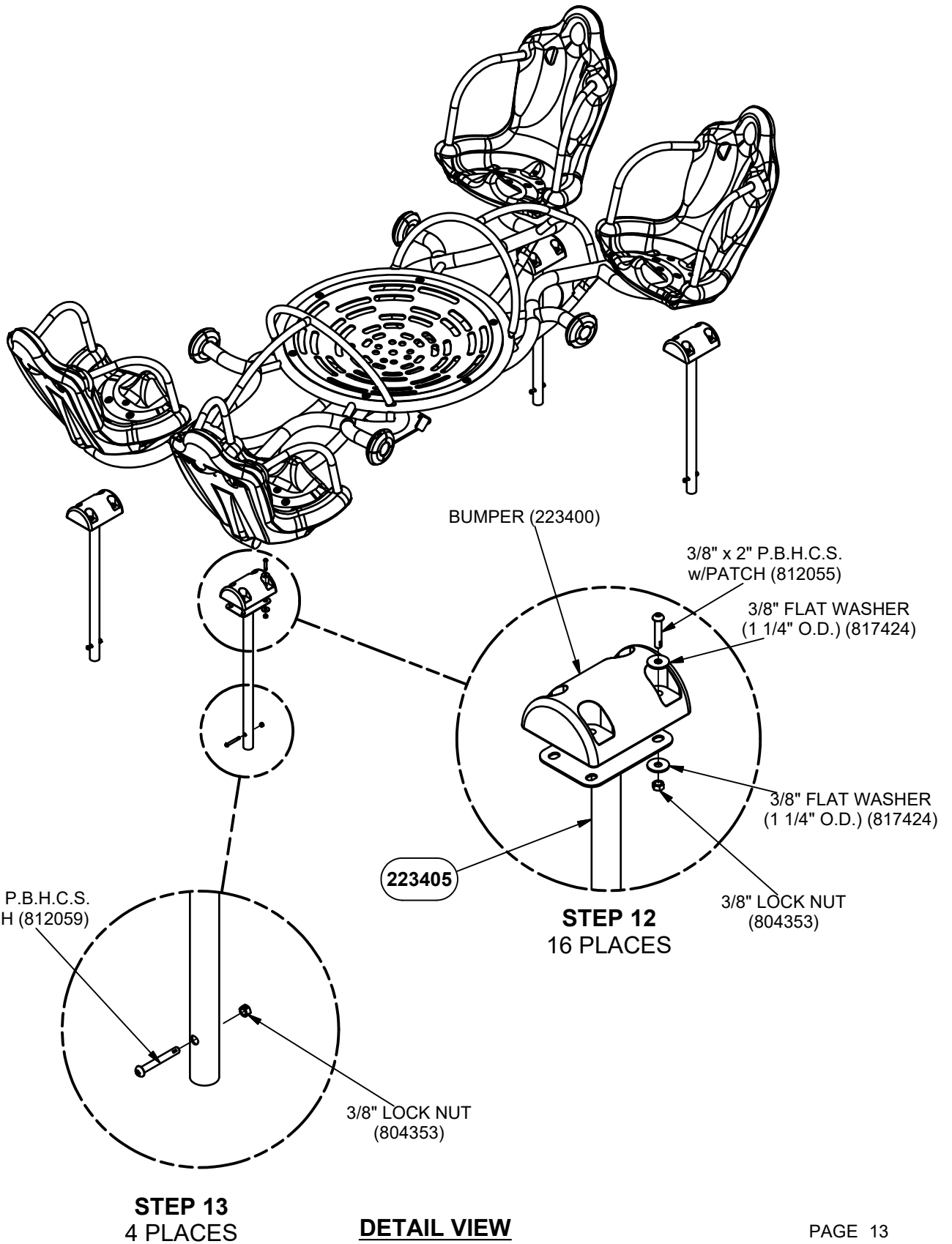
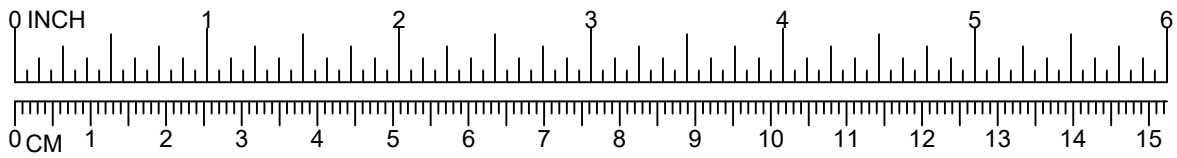
3 1/2" MOLDED CAP
(212340)



213653

STEP 10
2 PLACES

DETAIL VIEW





IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: Refer to the Detail Views for the specific hardware required in each connection.

STEP 1: Insert the Anchor Rods into the bottom of the Footbuck Weld Assembly. **REFER TO PAGE 6.**

NOTE: Plumb and level the Footbuck Weld Assembly and pour concrete. ALLOW THE CONCRETE TO SET AT LEAST 72 HOURS BEFORE PROCEEDING.

STEP 2: Attach Spring Assembly to the Footbuck Weld Assembly. Apply Loctite (supplied by others) to this connection. **REFER TO PAGE 6.**

STEP 3: Attach Rox All See Saw Weld Assembly to the Spring Assembly. Apply Loctite (supplied by others) to this connection. **REFER TO PAGE 7.**

STEP 4: Attach Hardware to the single front hole location on the Sensory Wave Seats. **REFER TO PAGE 8.**

STEP 5: Attach Sensory Wave Seats to the Rox All See Saw Weld Assembly using the front two hole locations. **REFER TO PAGE 9.**

STEP 6: Attach Sensory Wave Seats to the Rox All See Saw Weld Assembly using the back two hole locations. **REFER TO PAGE 9.**

STEP 7: Attach the bottom of the Spinning Seat Handhold Assemblies to the Sensory Wave Seats. **REFER TO PAGE 10.**

STEP 8: Attach the top of the Spinning Seat Handhold Assemblies to the Sensory Wave Seats. **REFER TO PAGE 10.**

STEP 9: Attach Coated Spinning to the Rox All See Saw Weld Assembly. For EN Compliance, insert washer between Coated Spinning and Rox All See Saw Weld Assembly. **REFER TO PAGE 11.**

STEP 10: Attach 3-1/2" Molded Caps to the Rox All See Saw Weld Assembly. **REFER TO PAGE 12.**

STEP 11: Attach Round Rubber Shrouds to the Rox All See Saw Weld Assembly. **REFER TO PAGE 12.**

NOTE: To ensure proper placement of Bumper Weld Assembly, check alignment by placing where Rox All See Saw contacts surfacing.

STEP 12: Attach Panel Caps to the Bumper Weld Assemblies. **REFER TO PAGE 13.**

STEP 13: Attach Hardware into the bottom of the Bumper Weld Assemblies. **REFER TO PAGE 13.**

NOTE: Plumb and level the Bumper Weld Assemblies and pour concrete. ALLOW THE CONCRETE TO SET AT LEAST 72 HOURS.

SPECIFICATIONS

SENSORY WAVE SEAT: Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

SPINNING SEAT HANDHOLD ASSEMBLY: Shall be fabricated from 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing and threaded crimped insert. Spinning Seat Handhold Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

ROX ALL SEE SAW WELD ASSEMBLY: Shall be fabricated from 3-1/2" O.D. x .180" (7 Gauge) wall galvanized steel tubing, 2-3/8" O.D. x .154" wall galvanized steel tubing (SCH 40), 2-3/8" O.D. x .134" (10 Gauge) wall galvanized steel tubing, 2-3/8" O.D. x .095" (13 Gauge) wall galvanized steel tubing, 1-7/8" O.D. x .145" wall galvanized steel tubing (SCH 40), 1-5/16" O.D. x .134" (10 Gauge) wall galvanized steel tubing, 3/8" Thick H.R. Steel, 1/4" Thick H.R. Steel, 3/16" Thick H.R. Steel, and 14 Gauge H.R. Steel. Rox All See Saw Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

LARGE SPINNING ASSEMBLY: Shall consist of rubber encapsulated by cast steel with a steel inner core.

FOOTBUCK WELD ASSEMBLY: Shall be fabricated from 5" O.D. x .180" (7 Gauge) wall galvanized steel tubing, 3/8" Thick H.R. Steel, and 3/16" Thick H.R. Steel. Footbuck Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

COATED SPINNING: Shall be fabricated from 12 Gauge H.R. Steel. Coated Spinning shall be coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating with a minimum coating thickness of .080". The PVC coating shall have a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. The PVC coating shall contain phthalate levels in concentrations of 1/10 of 1% or lower.

BUMPER WELD ASSEMBLY: Shall be fabricated from 1-5/8" O.D. x .083" (14 Gauge) wall galvanized steel tubing and 11 Gauge H.R. Steel. Bumper Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

3-1/2" MOLDED CAP: Shall be fabricated from injection molded Low Density Polyethylene.

ROUND RUBBER SHROUD: Shall be molded EPDM with a 90 durometer.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

Parts List		
DESCRIPTION	QTY	PART NUMBER
SENSORY WAVE SEAT	4	211584
SPINNING SEAT HANDHOLD ASS'Y	8	212788
ROX ALL SEE SAW WELD ASS'Y	1	213653
LARGE SPRING ASS'Y	1	213225
FOOTBUCK WELD ASS'Y	1	212872
COATED SPINNING	1	213007
BUMPER MOUNT ASSEMBLY	4	223405
HARDWARE COMPLETE	1	223408
BUMPER	4	223400*
1/4" x 1 1/4" P.B.H.C.S.	8	812083*
1/4" x 2" P.B.H.C.S. w/PATCH	4	812018*
1/4" FLAT WASHER (5/8" O.D.)	16	817408*
1/4" HEX NUT	4	804351*
1/2" ANCHOR ROD	2	135038*
1/2" x 1 1/2" B.H.C.S.	12	811073*
1/2" LOCKNUT	12	804355*
1/2" NORD LOC WASHER	24	817742*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	6	812051*
3/8" x 2" P.B.H.C.S. w/PATCH	16	812055*
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	8	812056*
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	8	812057*
3/8" x 3" P.B.H.C.S. w/PATCH	12	812059*
3/8" x 4 1/2" P.B.H.C.S. w/PATCH	8	812077*
3/8" ACORN NUT	6	804002*
3/8" LOCK NUT	36	804353*
3/8" FLAT WASHER (1 1/4" O.D.)	50	817424*
3/8" FLAT WASHER	48	817410*
3/8" LOCK WASHER	38	817334*
3 1/2" MOLDED CAP	2	212340*
ROUND RUBBER SHROUD	8	202065*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

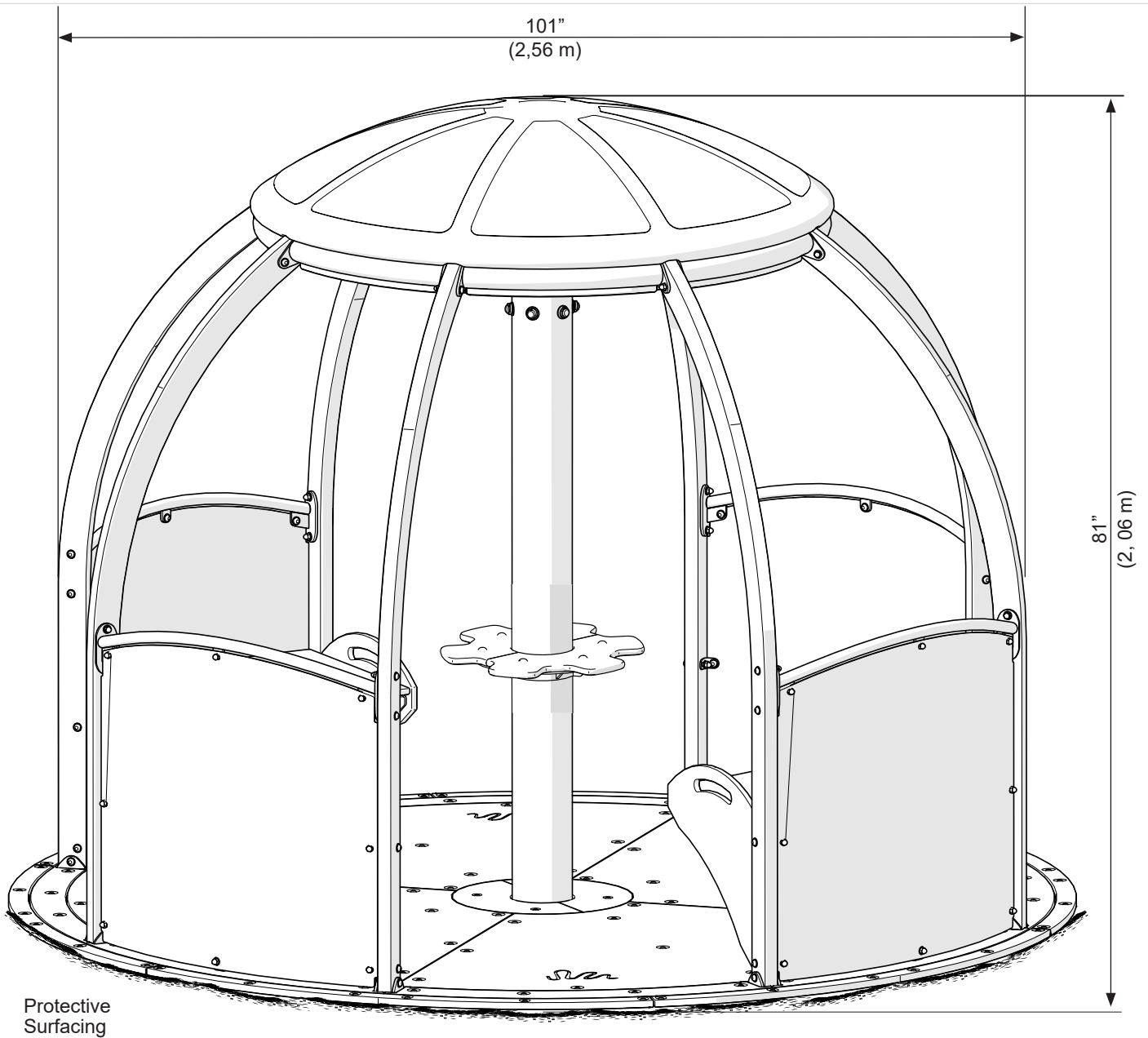
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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.)

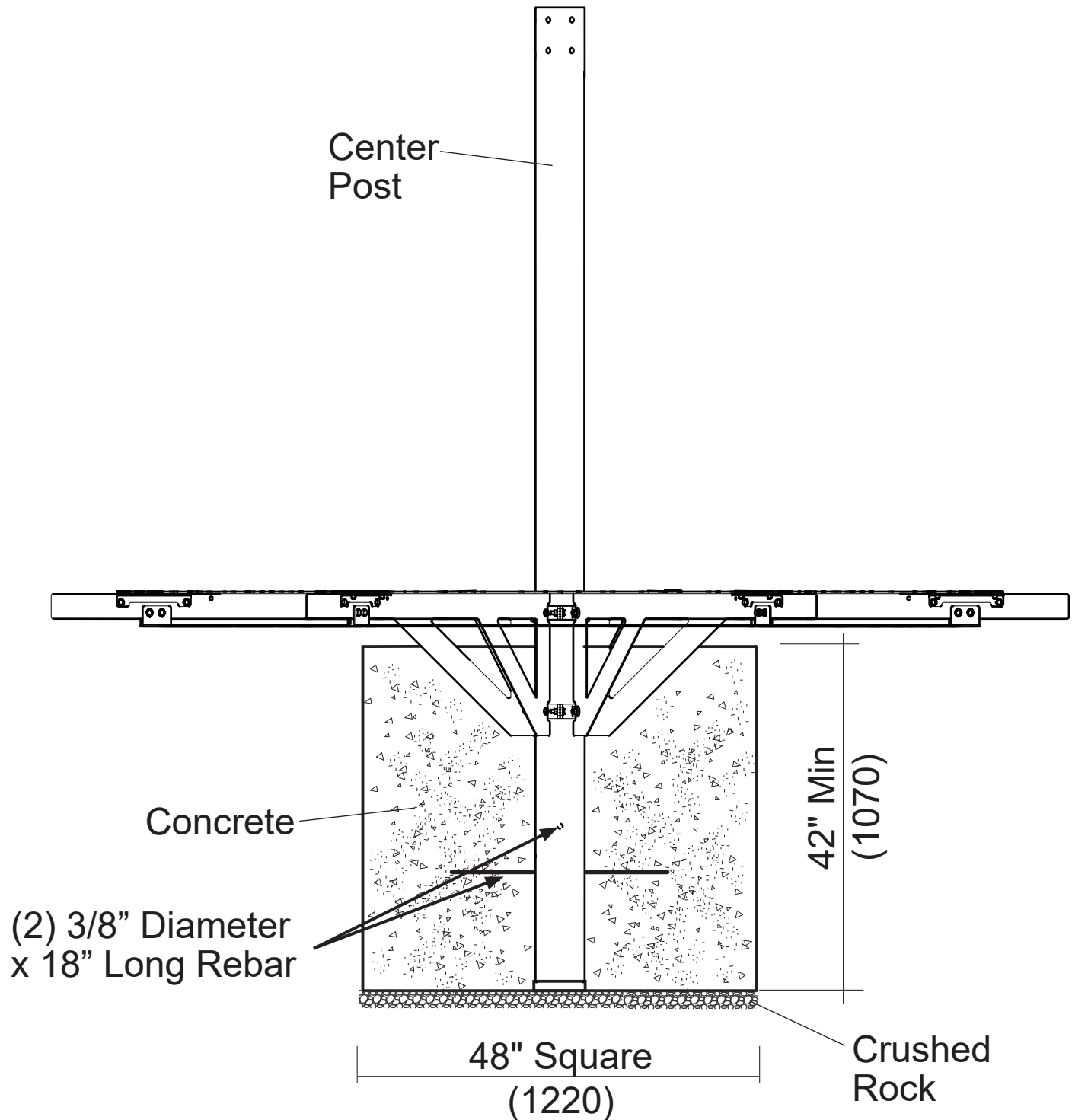


Scan the QR Code
to the right, or
type the URL into
a browser to view
the video

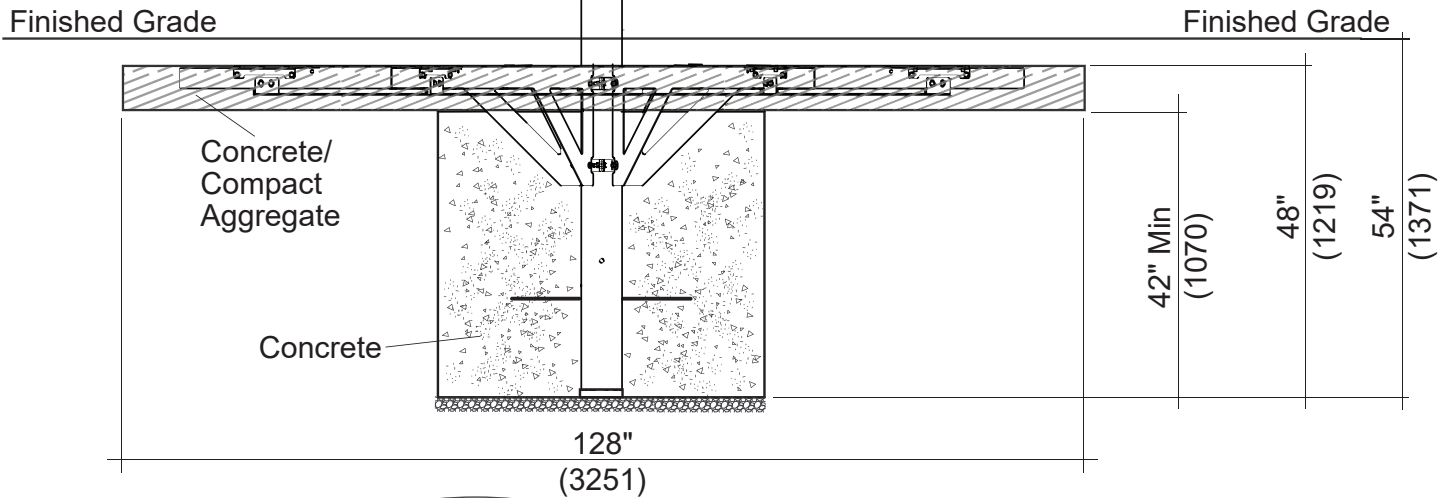


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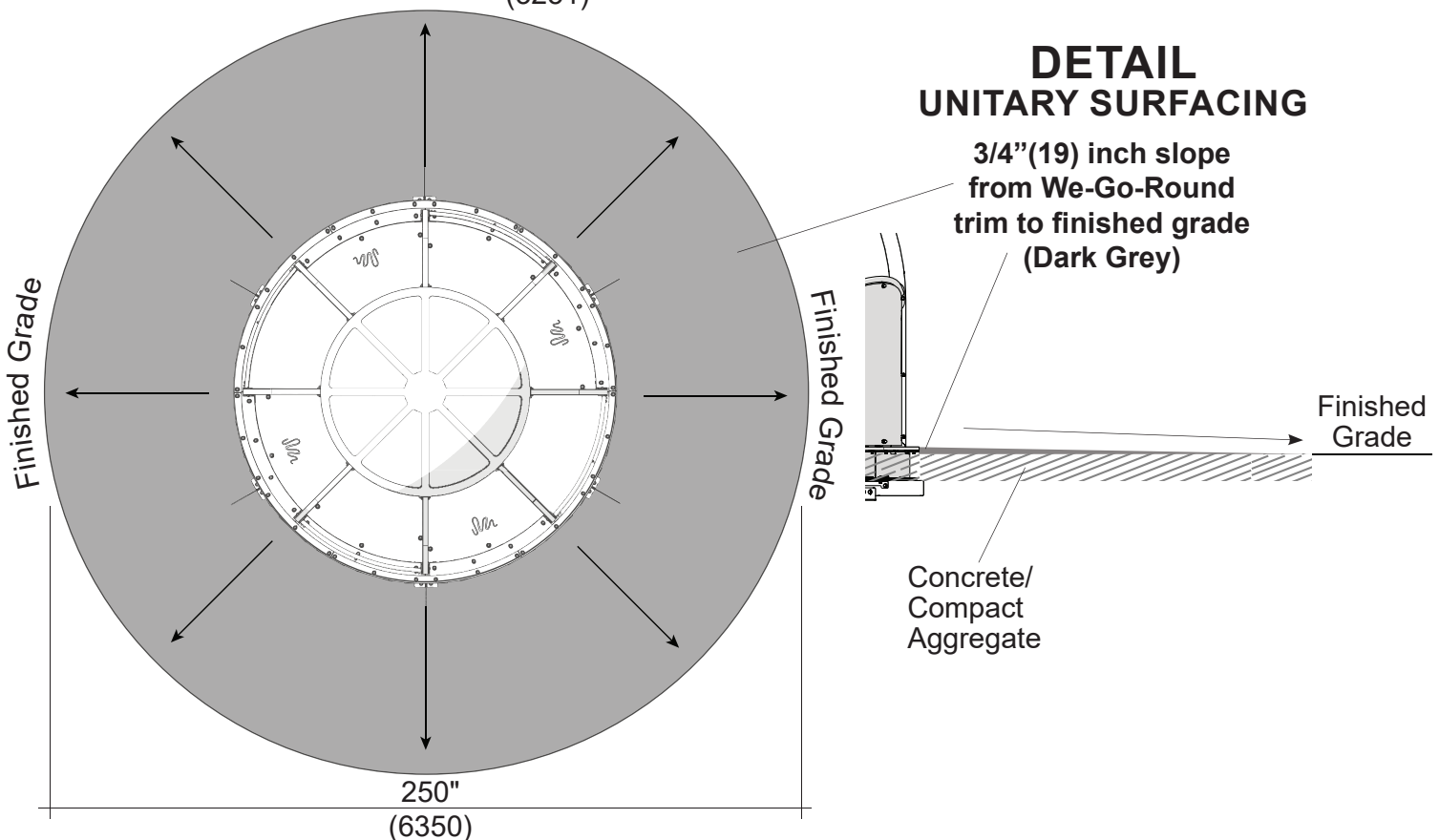
DETAIL DIRECT BURY



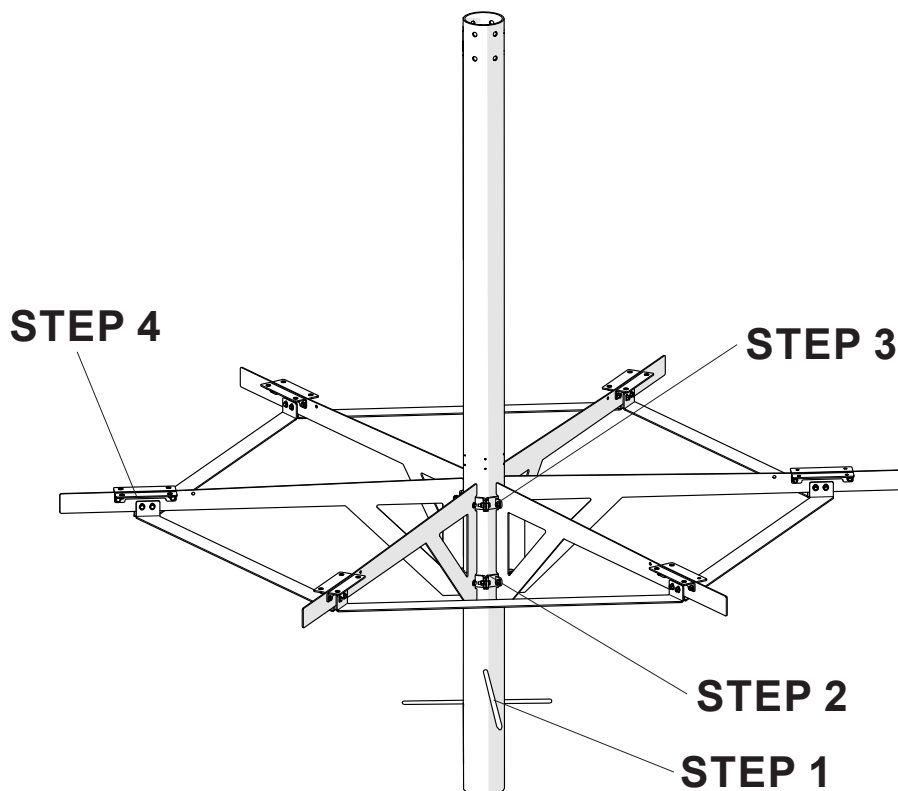
DETAIL DIRECT BURY



DETAIL UNITARY SURFACING

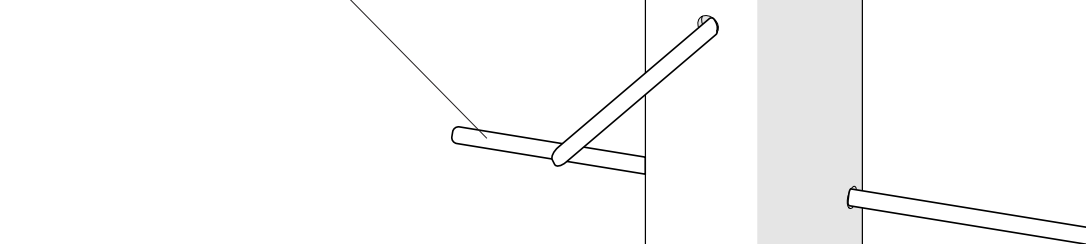


FOUNDATION I



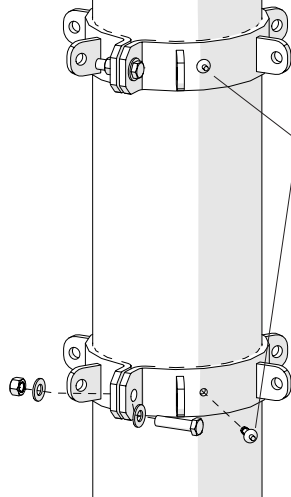
STEP 1

(2) 3/8" Diameter x 18" Long Rebar

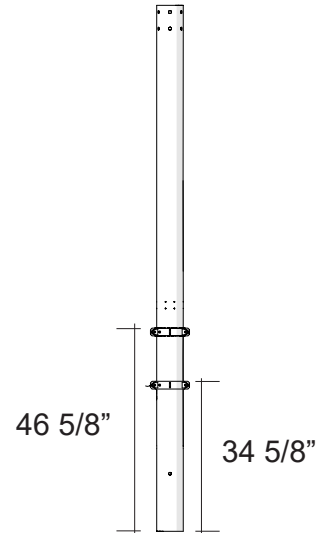





1x  6.0 OD x .25" x 119.5" Post (289361)
 2x  3/8" x 18" Rebar (222399)

STEP 2



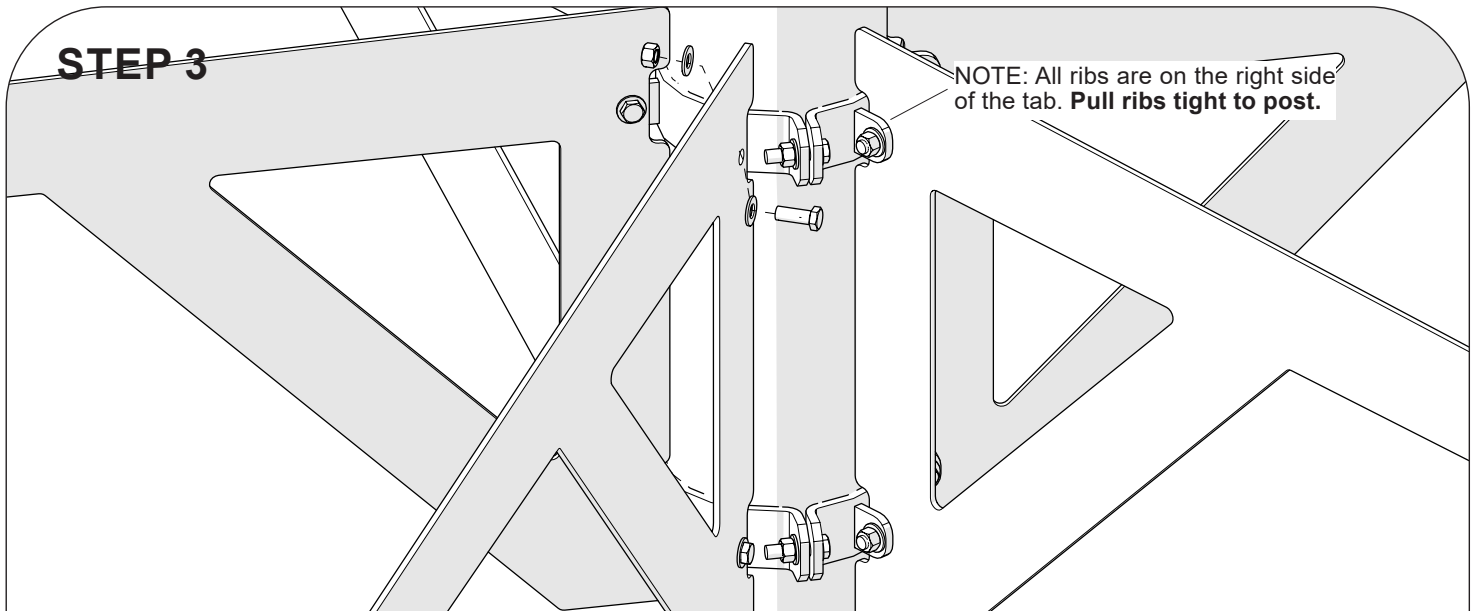
NOTE: Rivets will set clamp height and orientation.



- 4x  Rib Clamp (249292)
 2x  $\frac{1}{4}$ x $\frac{5}{8}$ " Drive Rivet (100610)
 4x  $\frac{3}{8}$ " Standard Hex Nut (100327)

- 4x  $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " Hex Screw (100208)
 8x  $\frac{3}{8}$ " SAE Washer (100365)

STEP 3

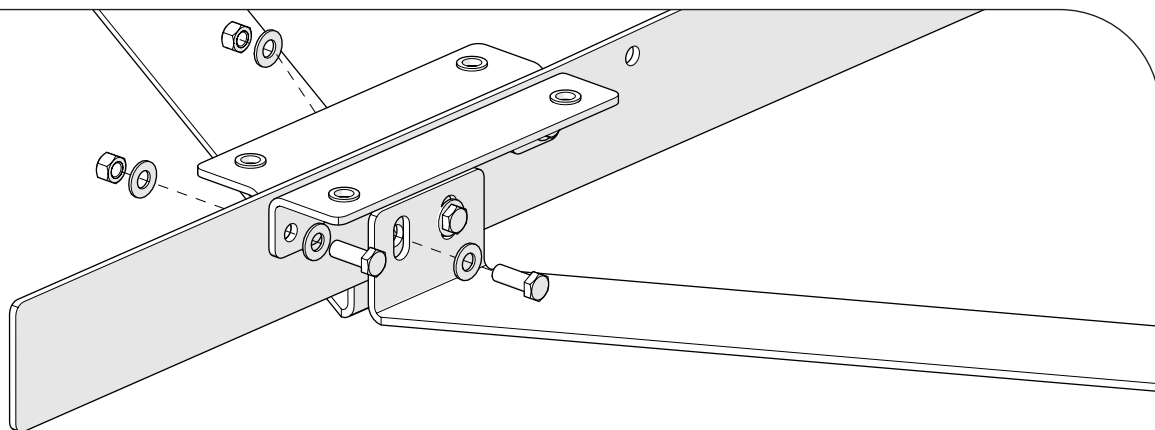


NOTE: All ribs are on the right side of the tab. Pull ribs tight to post.

- 6x  Rib (249295)
 12x  $\frac{3}{8}$ " Standard Hex Nut (100327)

- 12x  $\frac{3}{8}$ " x 1" Hex Screw (100206)
 24x  $\frac{3}{8}$ " SAE Washer (100365)

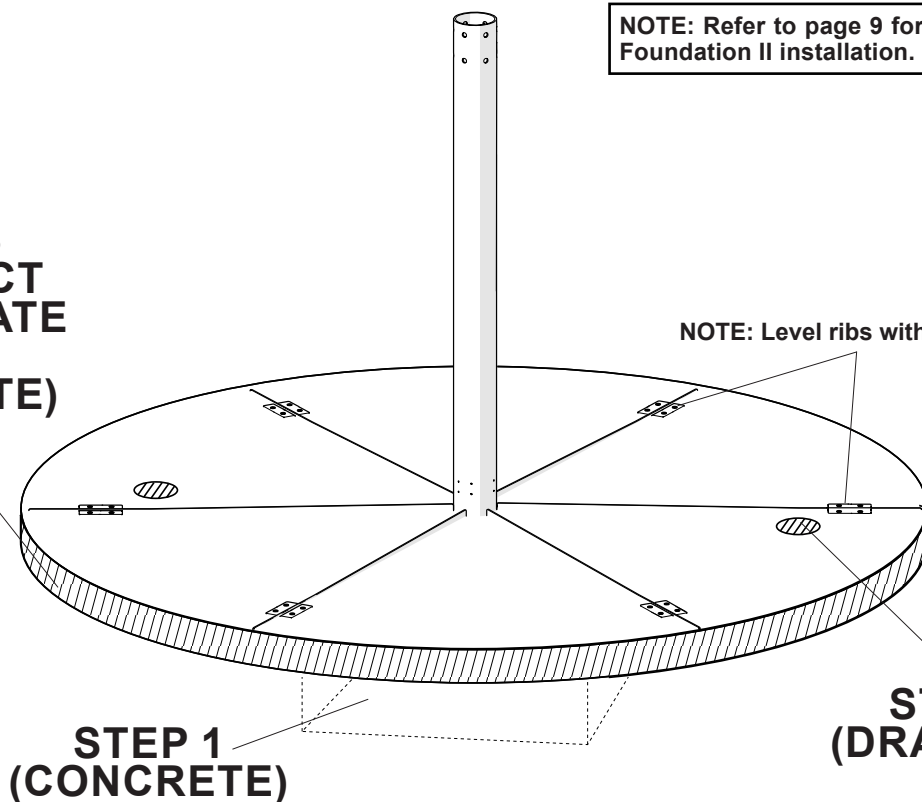
STEP 4



12x		Rib Bracket (249299)	24x		$\frac{3}{8}$ " x 1" Hex Screw (100206)
24x		$\frac{3}{8}$ " Standard Hex Nut (100327)	48x		$\frac{3}{8}$ " SAE Washer (100365)
6x		Rib Footer (249297)			

FOUNDATION II

**STEP 3
(COMPACT
AGGREGATE
OR
CONCRETE)**



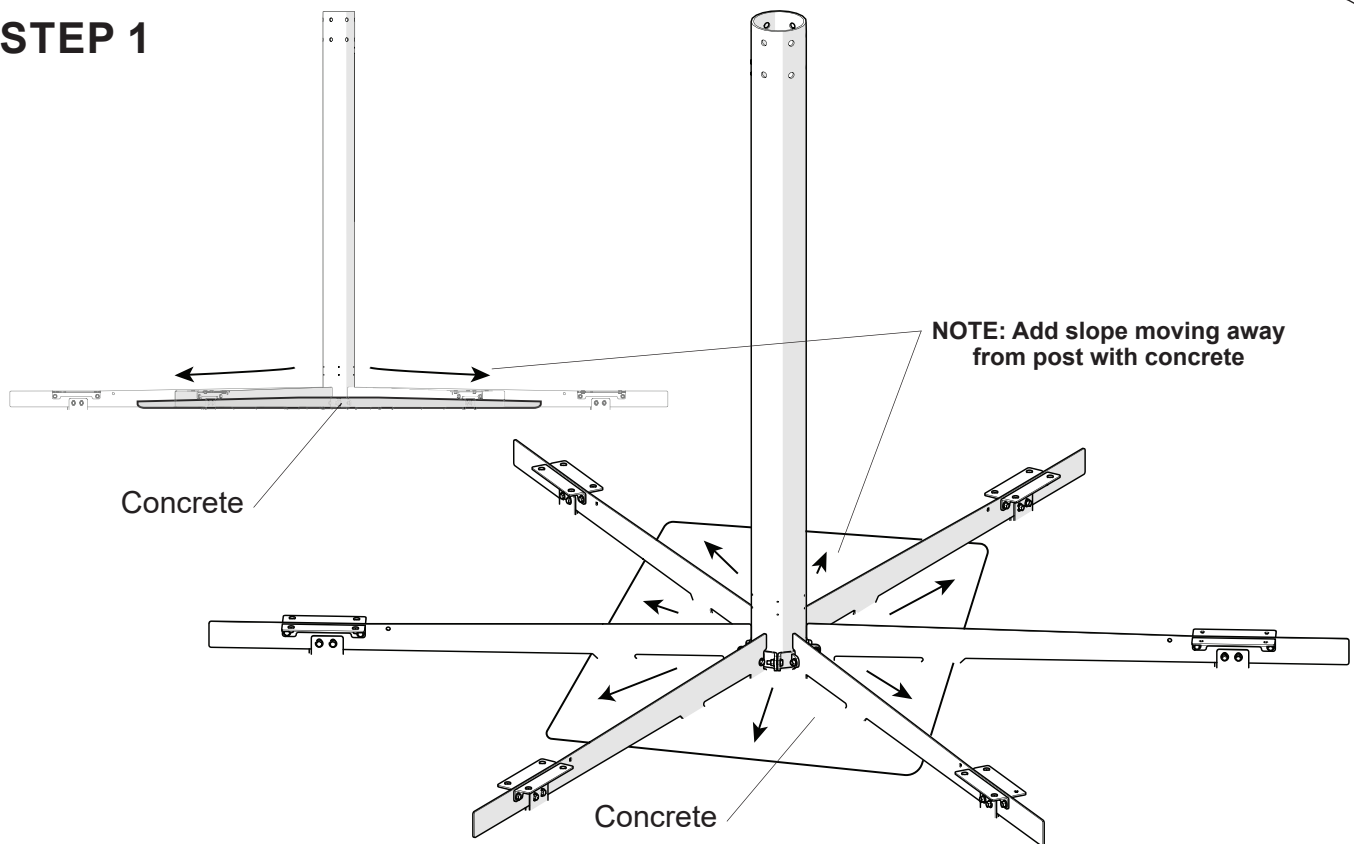
NOTE: Refer to page 9 for in-field photos of Foundation II installation.

NOTE: Level ribs with aggregate/concrete

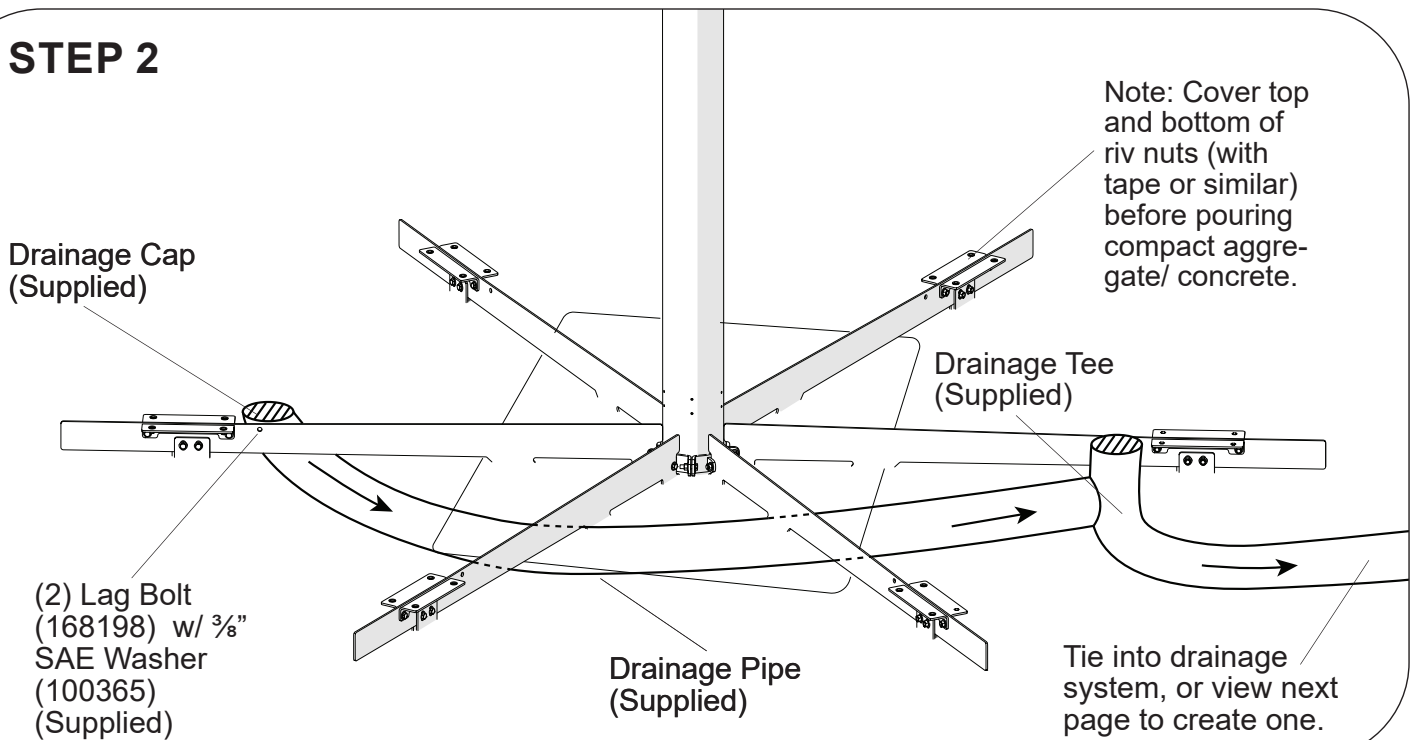
**STEP 1
(CONCRETE)**

**STEP 2
(DRAINAGE)**

STEP 1

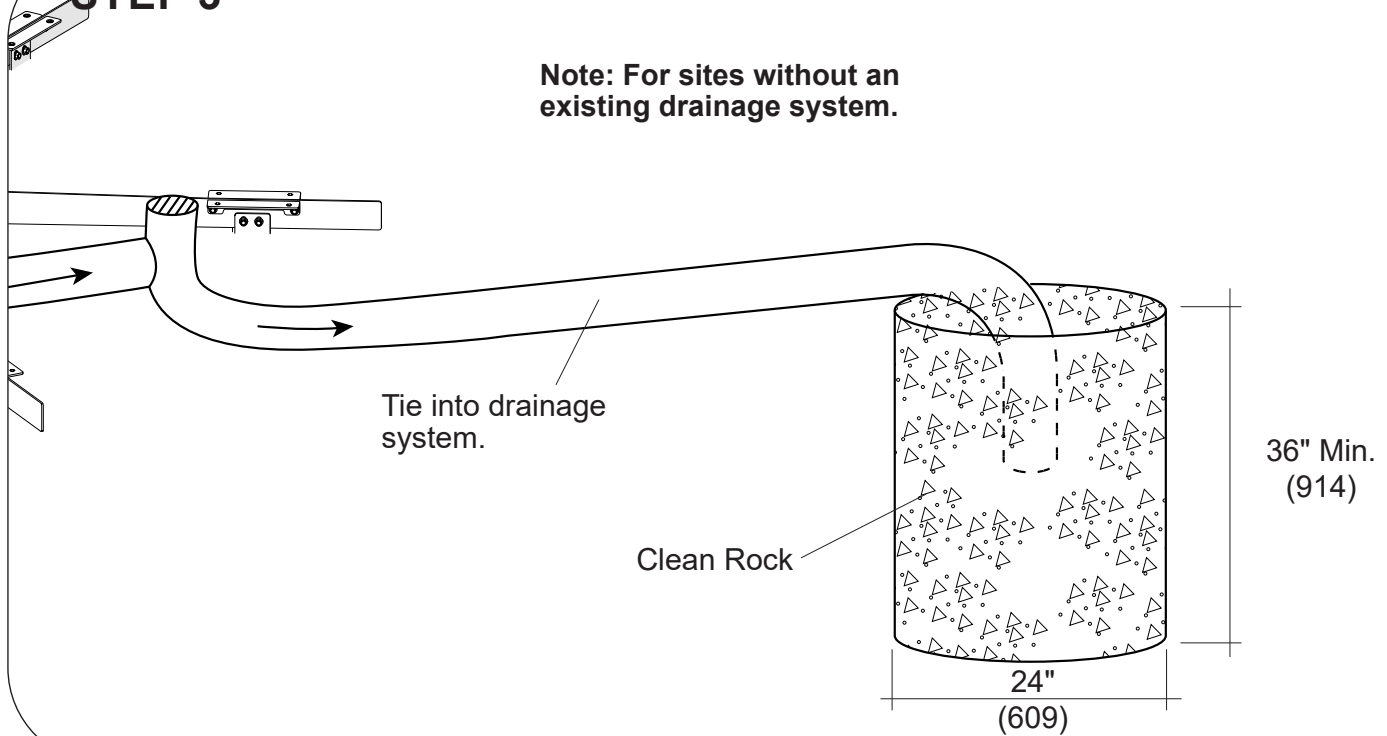


STEP 2



STEP 3

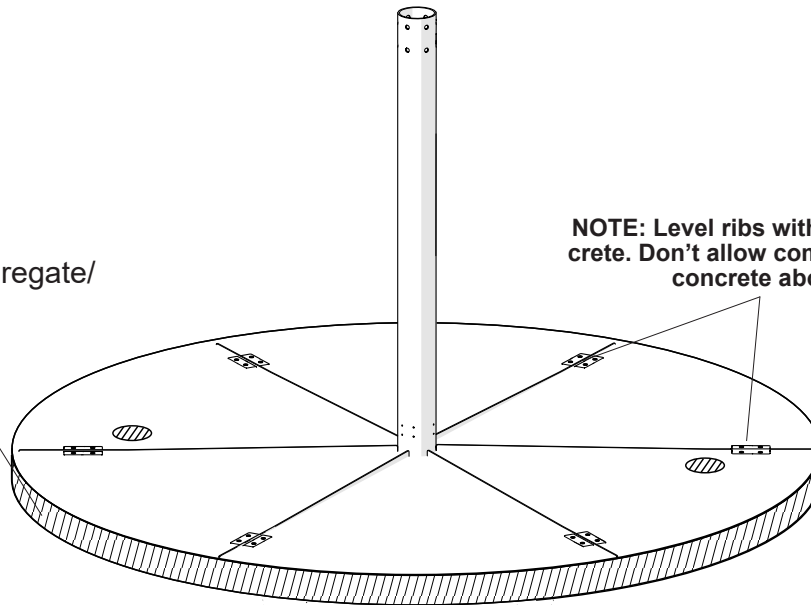
Note: For sites without an existing drainage system.



STEP 4

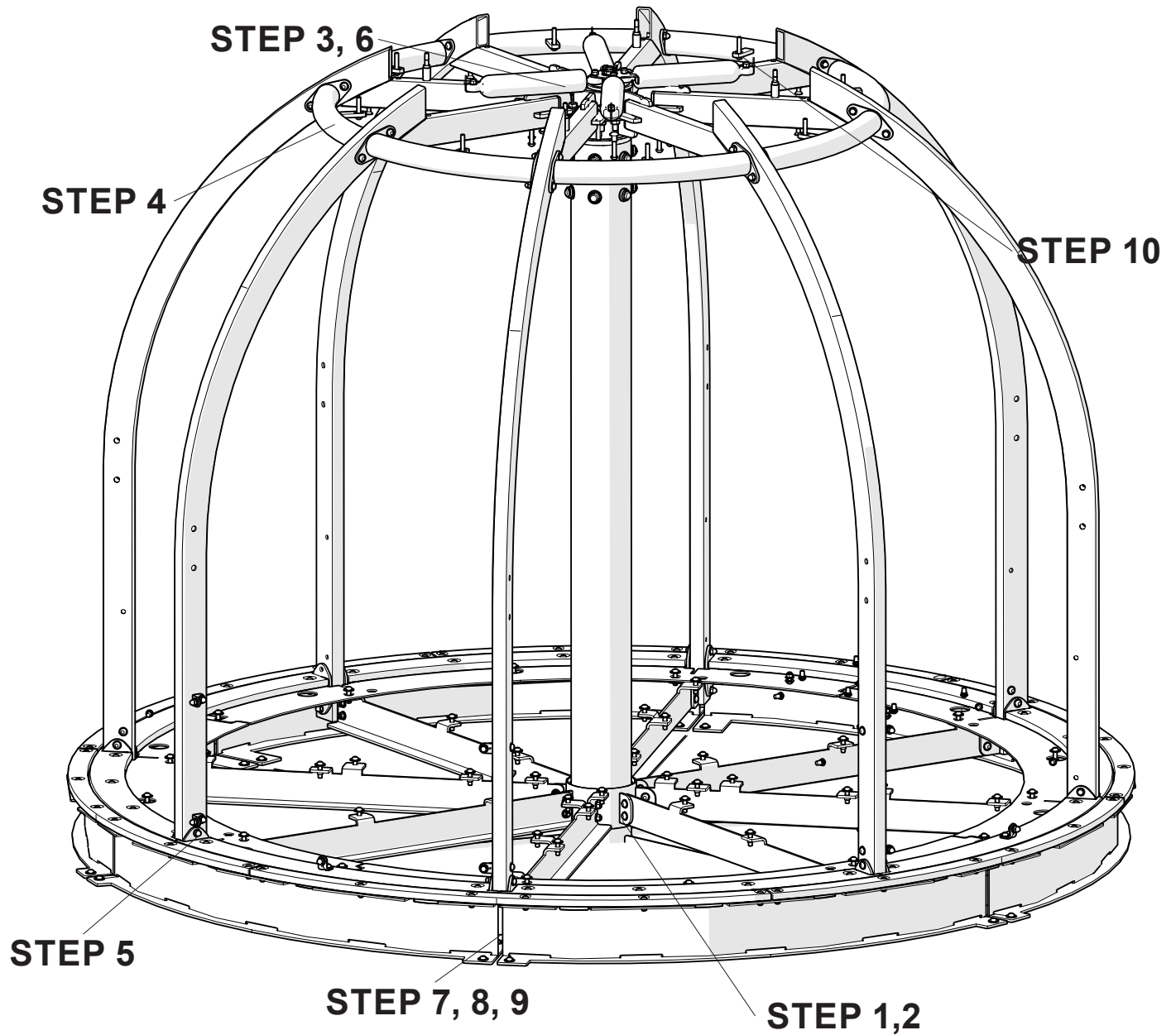
Compact Aggregate/
Concrete

NOTE: Level ribs with aggregate/
concrete. Don't allow compact aggregate/
concrete above ribs.

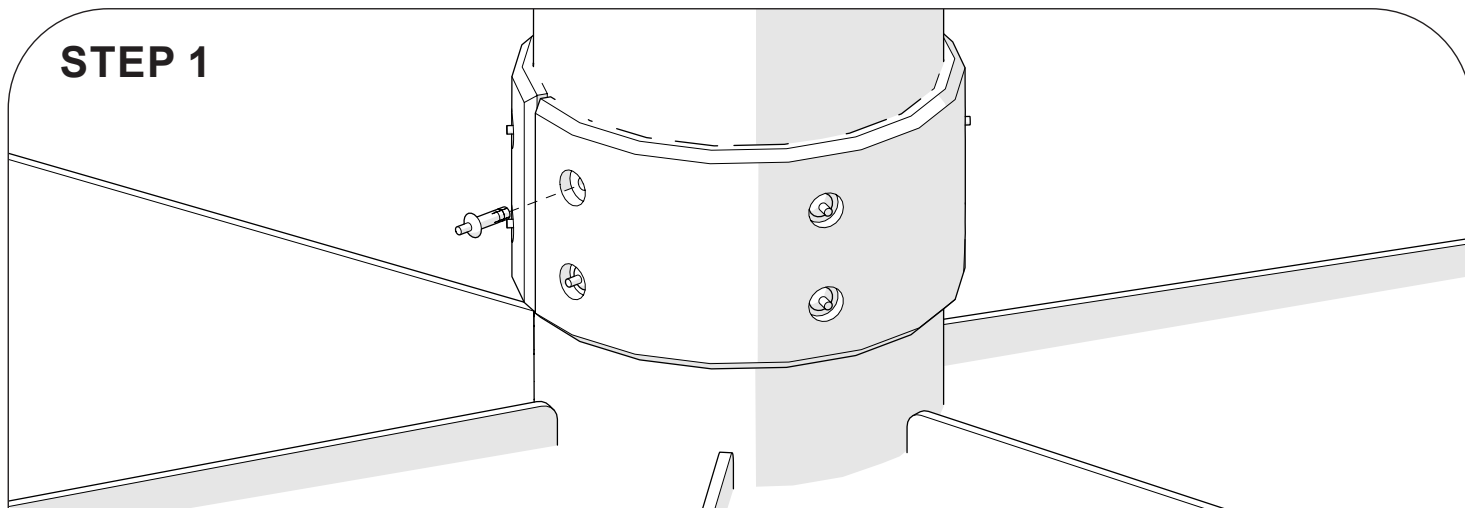





STRUCTURE



STEP 1



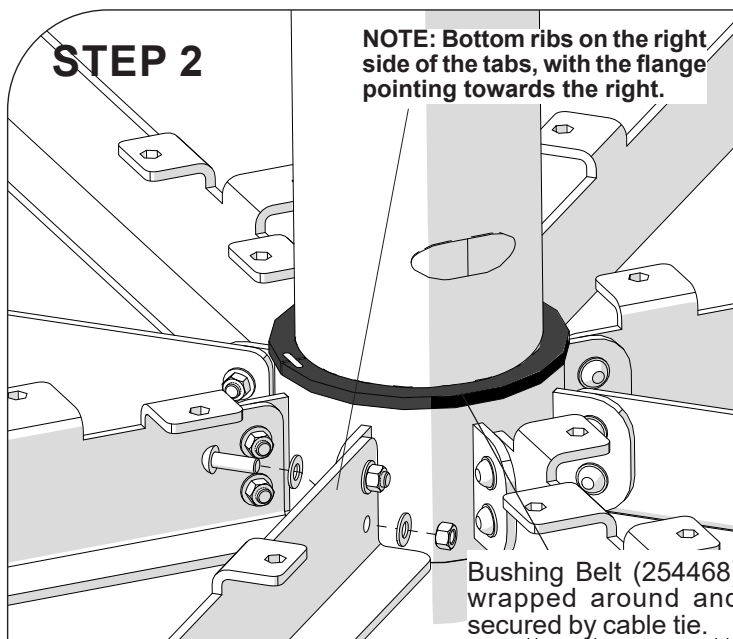
12x  $\frac{1}{4}$ " x $\frac{3}{8}$ " Drive Rivet (100611) 2x  Bushing Tube (292617)



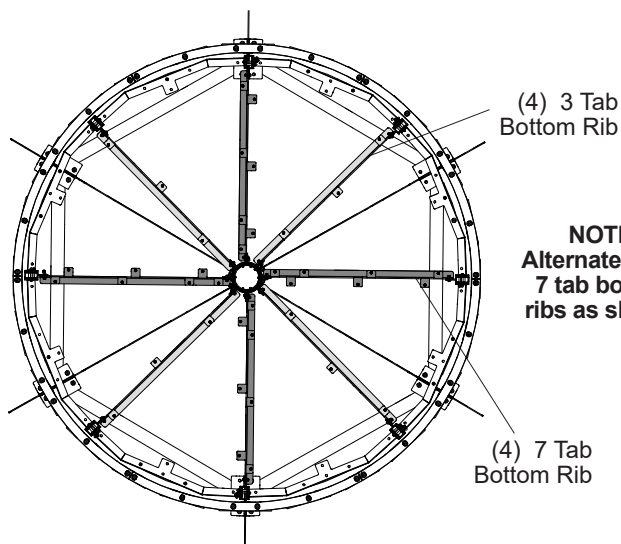
<https://bit.ly/2T8GfGk>

STEP 2









NOTE: Bottom ribs on the right side of the tabs, with the flange pointing towards the right.



Bushing Belt (254468) wrapped around and secured by cable tie.

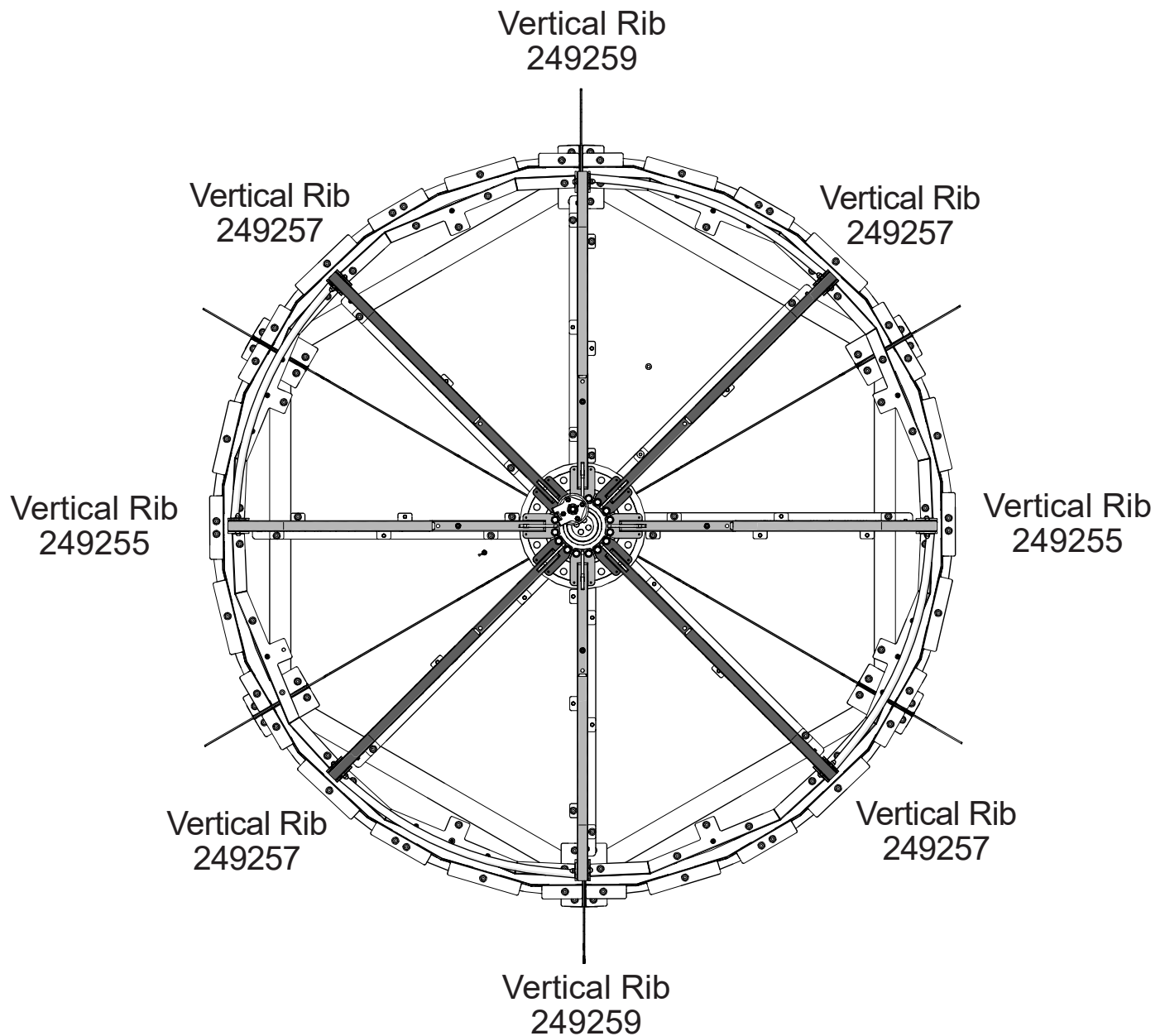


NOTE:
Alternate 3 and 7 tab bottom ribs as shown.

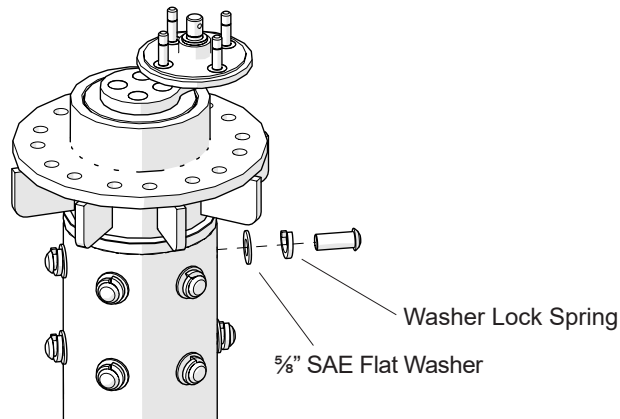
16x	..... $\frac{3}{8}$ " Standard Hex Nut (100327)	16x	..... $\frac{3}{8}$ x 1 $\frac{1}{8}$ " BHCS (100198)
4x	..... 3 Tab Bottom Rib (249267)	32x	..... $\frac{3}{8}$ " SAE Washer (100365)
4x	..... 7 Tab Bottom Rib (249266)	1x	..... Bottom Rib Mount (248520)
1x	..... Bushing Belt (254468)	1x	..... Cable Tie 5 - $\frac{3}{4}$ " (109680)

REFERENCE FOR STEP 4

NOTE: Orientation of the Vertical and 3 Tab/ 7 Tab Bottom ribs are independent of each other.



STEP 3



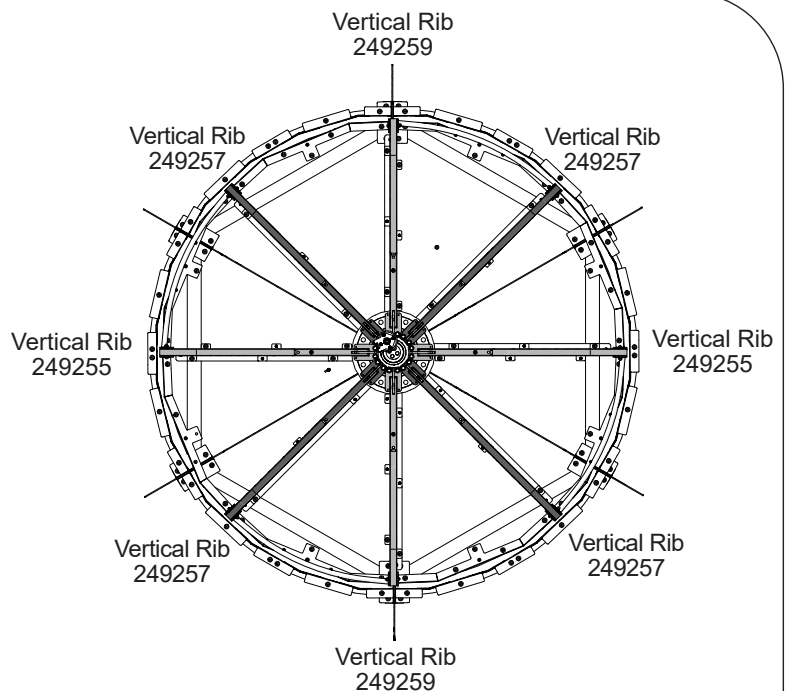
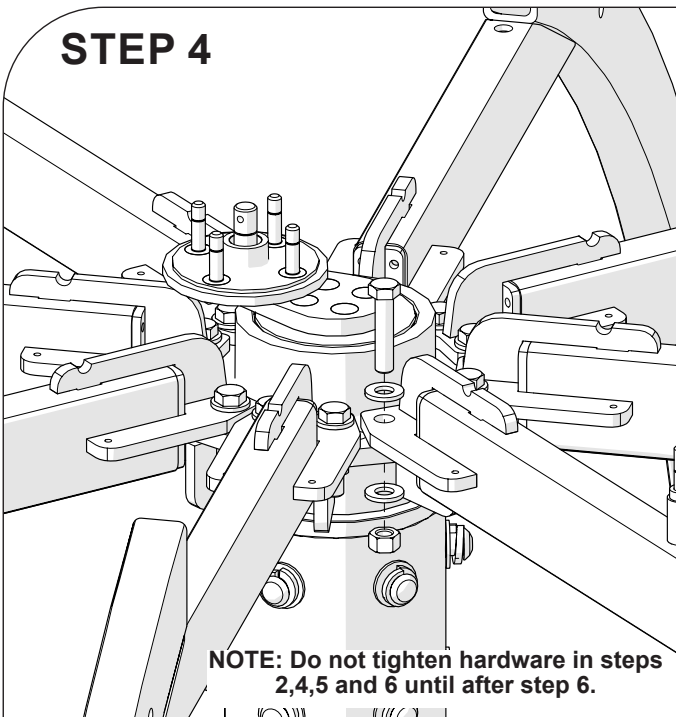
1x 1.25 Offset Bearing and Hub Assembly (254134)

12x 5/8" SAE Flat Washer (129500)

12x 5/8 x 1 1/2" BHCS (100201)

12x Washer Lock Spring (175652)

STEP 4



2x Vertical Rib w/Pin and 1 Insert (249259)

4x Vertical Rib w/o Pin and 1 Insert (249257)

2x Vertical Rib w/Pin and 4 Inserts (249255)

16x 1/2" Standard Hex Nut (129692)

16x 1/2" x 2 1/4" Hex Screw (131862)

32x 1/2" SAE Washer (113550)

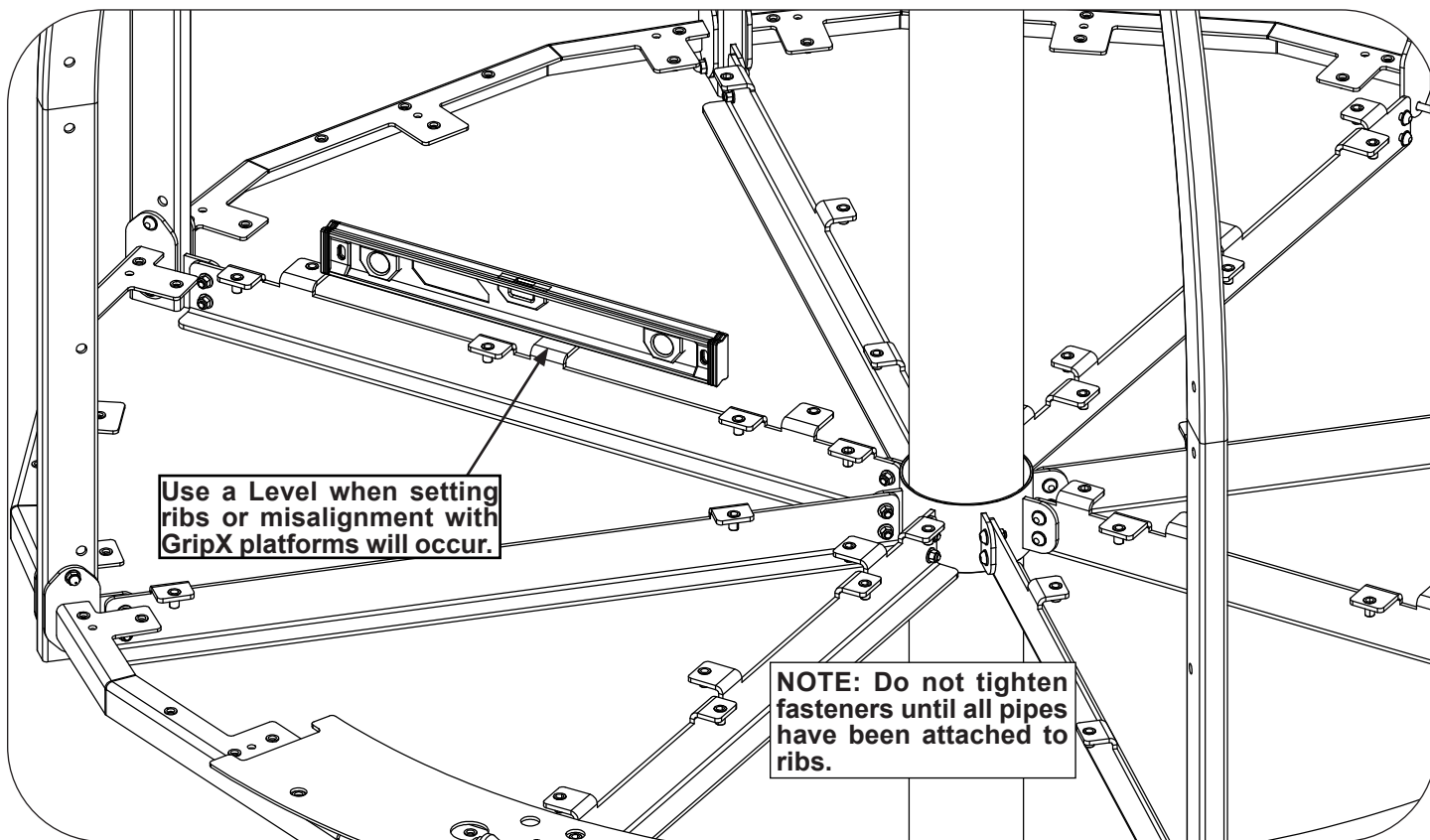
STEP 5

NOTE: Refer to step 4 simultaneously to achieve proper placement.

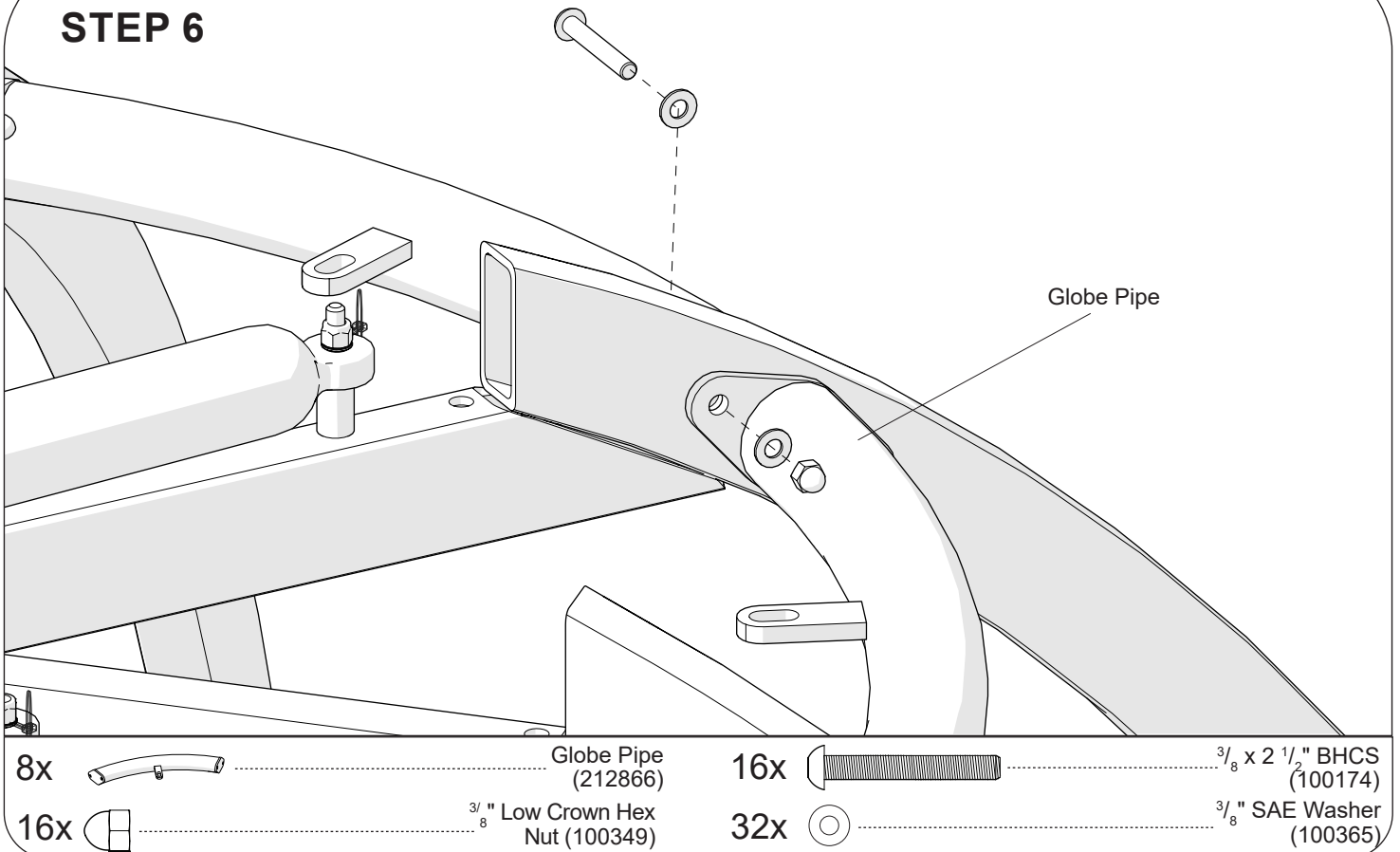
NOTE: Tab is placed on the right of the bottom ribs.
Use level when tightening ribs.

Horizontal Bottom Support

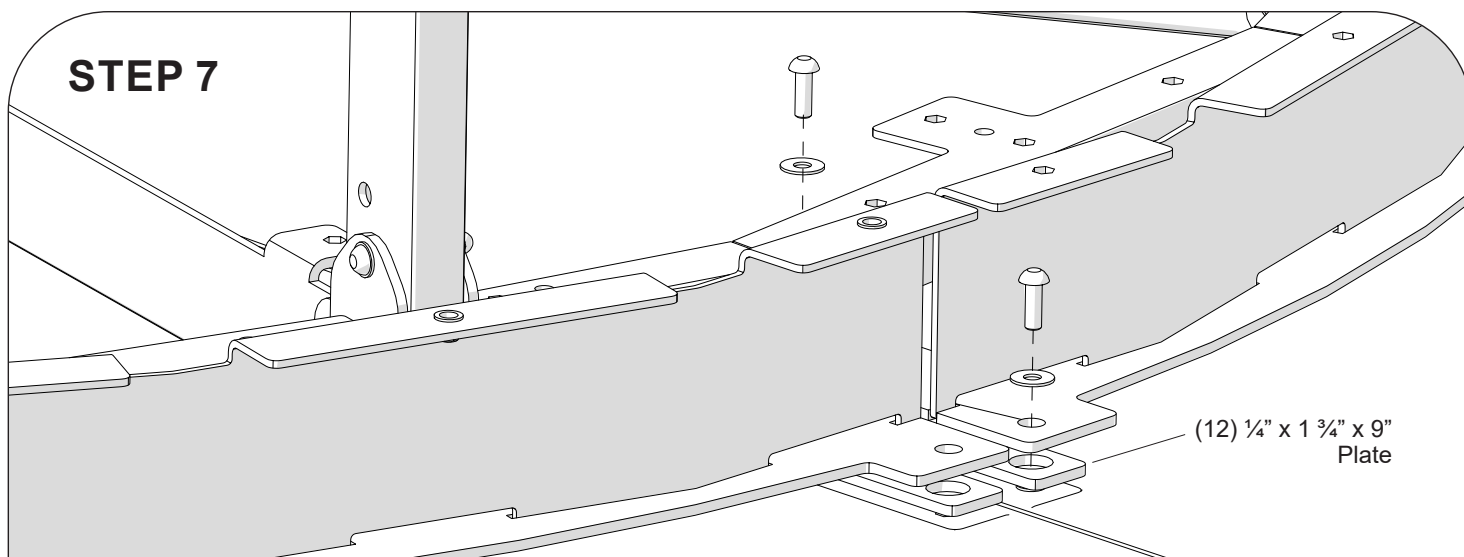
8x		Horizontal Bottom Support (249286)	16x		3/8" Standard Hex Nut (100327)
16x		3/8" Low Crown Hex Nut (100349)	64x		3/8" SAE Washer (100365)
16x		3/8 x 2 1/2" BHCS (100174)	16x		3/8 x 1 1/8" BHCS (100198)



STEP 6

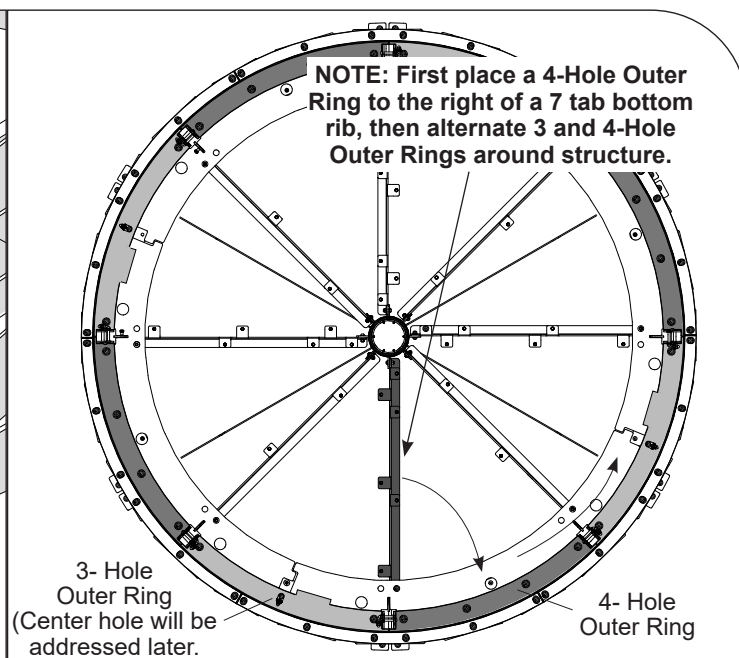
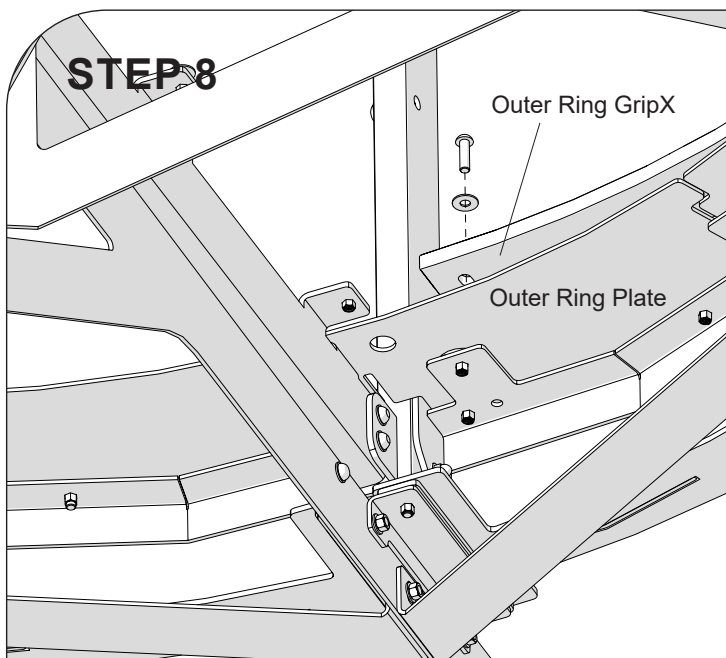


STEP 7



- | | | | | | |
|-----|--|--------------------------------------|-----|--|---|
| 6x | | Skirt (249289) | 24x | | $\frac{3}{8}$ x 1 $\frac{1}{8}$ " BHCS (100198) |
| 24x | | $\frac{3}{8}$ " Flat Washer (100362) | 12x | | $\frac{1}{4}$ x 1 $\frac{3}{4}$ x 9" Plate (253792) |

STEP 8



- | | | | | | |
|----|--|---|-----|--|---|
| 4x | | Black 3- Hole Outer Ring GripX (297891) | 24x | | $\frac{3}{8}$ x 1 $\frac{3}{8}$ " BHCS (113027) |
| 4x | | Black 4-Hole Outer Ring GripX (246441) | 24x | | $\frac{3}{8}$ " Flat Washer (100362) |
| 4x | | Outer Ring Plate (250371) | | | |



<https://bit.ly/2DTsWVh>

STEP 9

NOTE: While placing GripX into place ensure gap doesn't exceed 5/16" while spinning. Alternate Outer Skirt Grip X A (258597) and B (258598).

Grey Outer Skirt
Grip X B (258598)

Grey Outer Skirt
Grip X A (258597)

- | | | | | | |
|-----|--|--------------------------------------|-----|--|---|
| 6x | | Grey Outer Skirt Grip X B (258598) | 36x | | $\frac{3}{8}$ x 1 $\frac{1}{8}$ " BHCS (100198) |
| 6x | | Grey Outer Skirt Grip X A (258597) | | | |
| 36x | | $\frac{3}{8}$ " Flat Washer (100362) | | | |

STEP 10

(8) $\frac{3}{8}$ " Nylock Hex Nut

Hub Clamp

- | | | | | | |
|----|--|---|----|--|--------------------|
| 4x | | 70 Series Shock (215884) | 1x | | Hub Clamp (222306) |
| 8x | | $\frac{3}{8}$ " Nylock Hex Nut (136931) | | | |

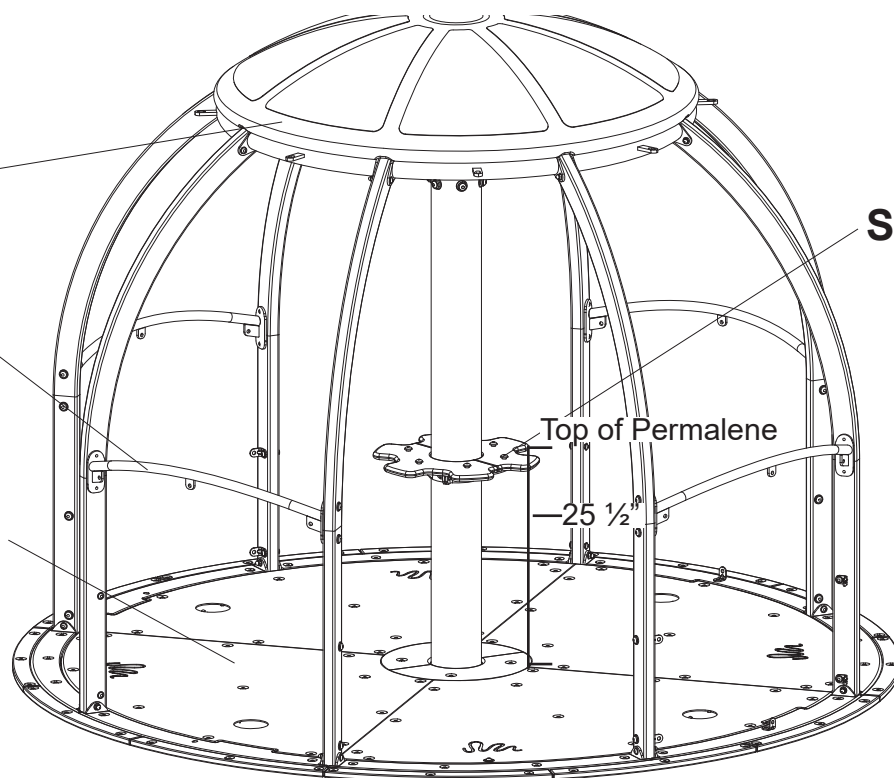
INTERIOR I

STEP 4

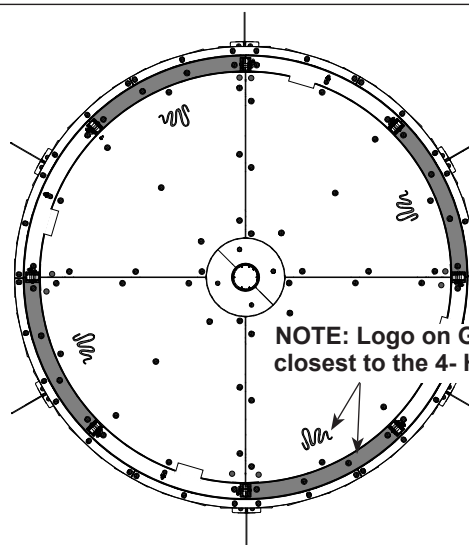
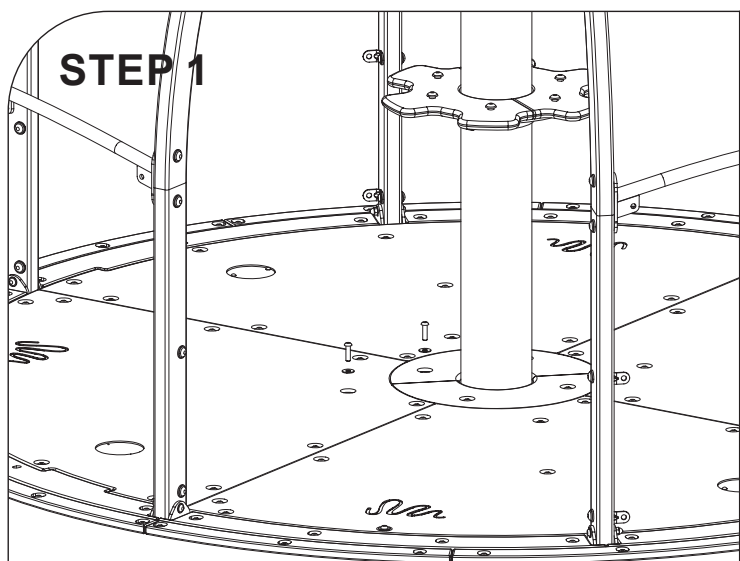
STEP 2

STEP 1

STEP 3



STEP 1



56x



$\frac{3}{8}$ x 1 $\frac{3}{8}$ " BHCS
(113027)

4x



Black Outer Deck GripX
(297889)

56x



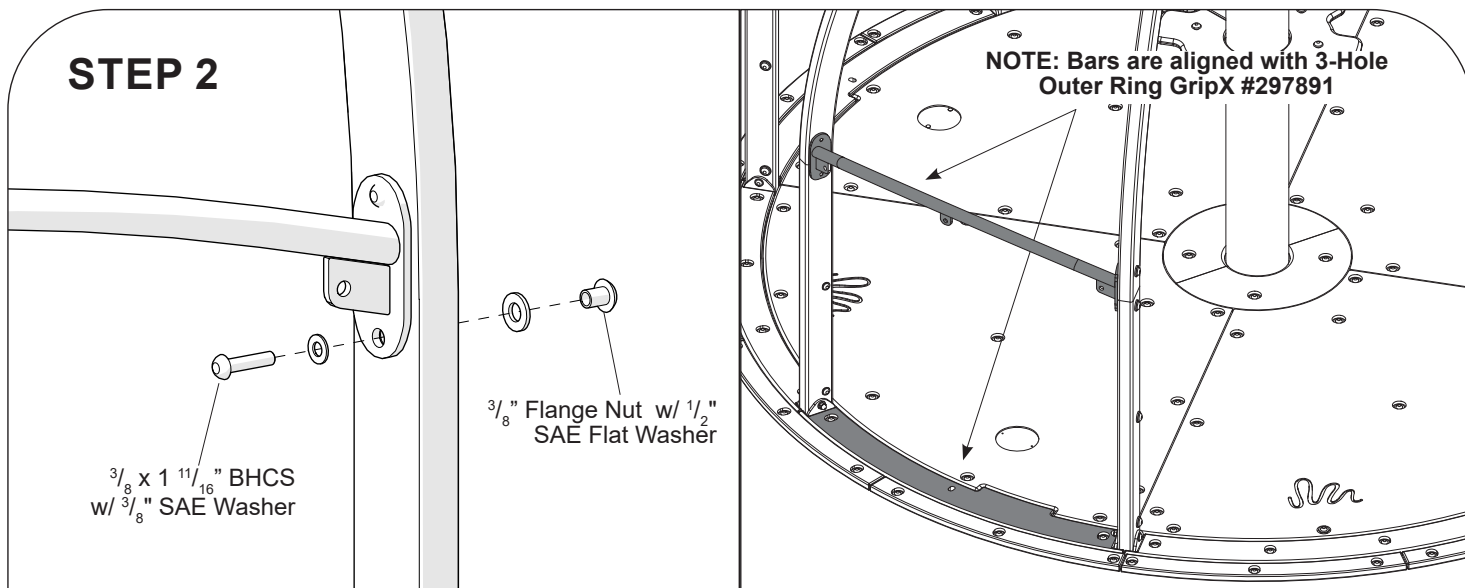
$\frac{3}{8}$ " Flat Washer
(100362)

2x



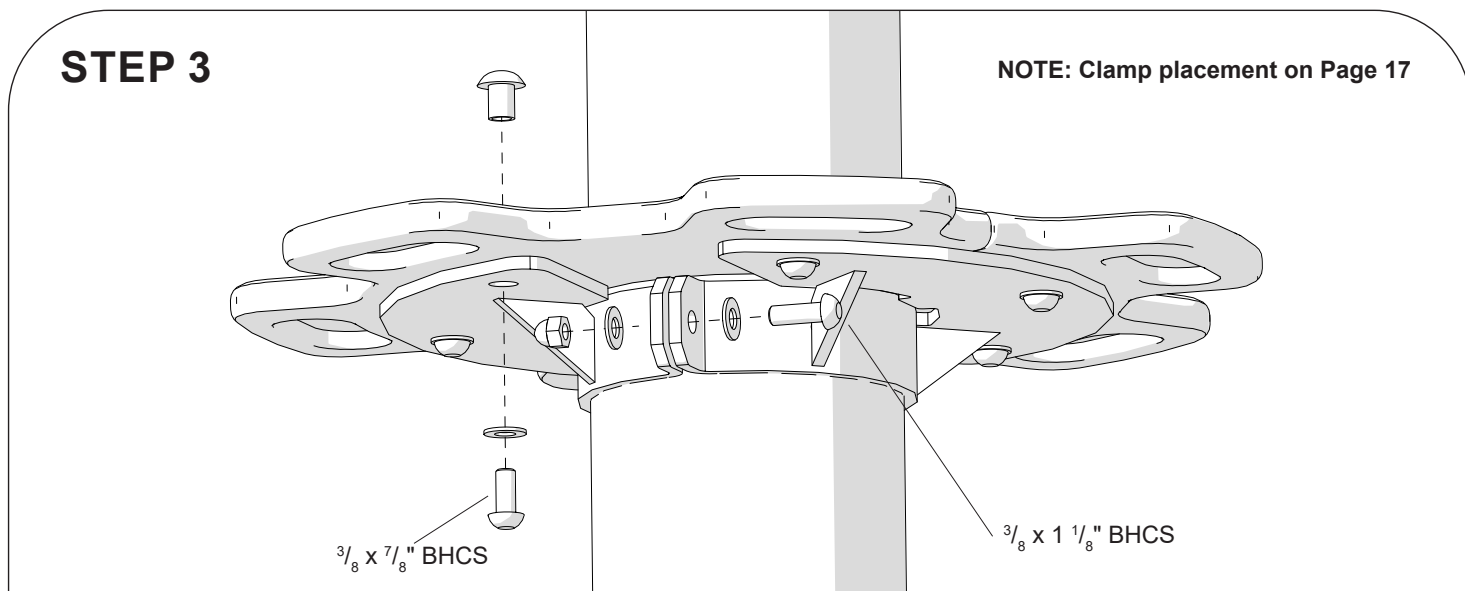
Black Center Deck GripX
(246435)

STEP 2



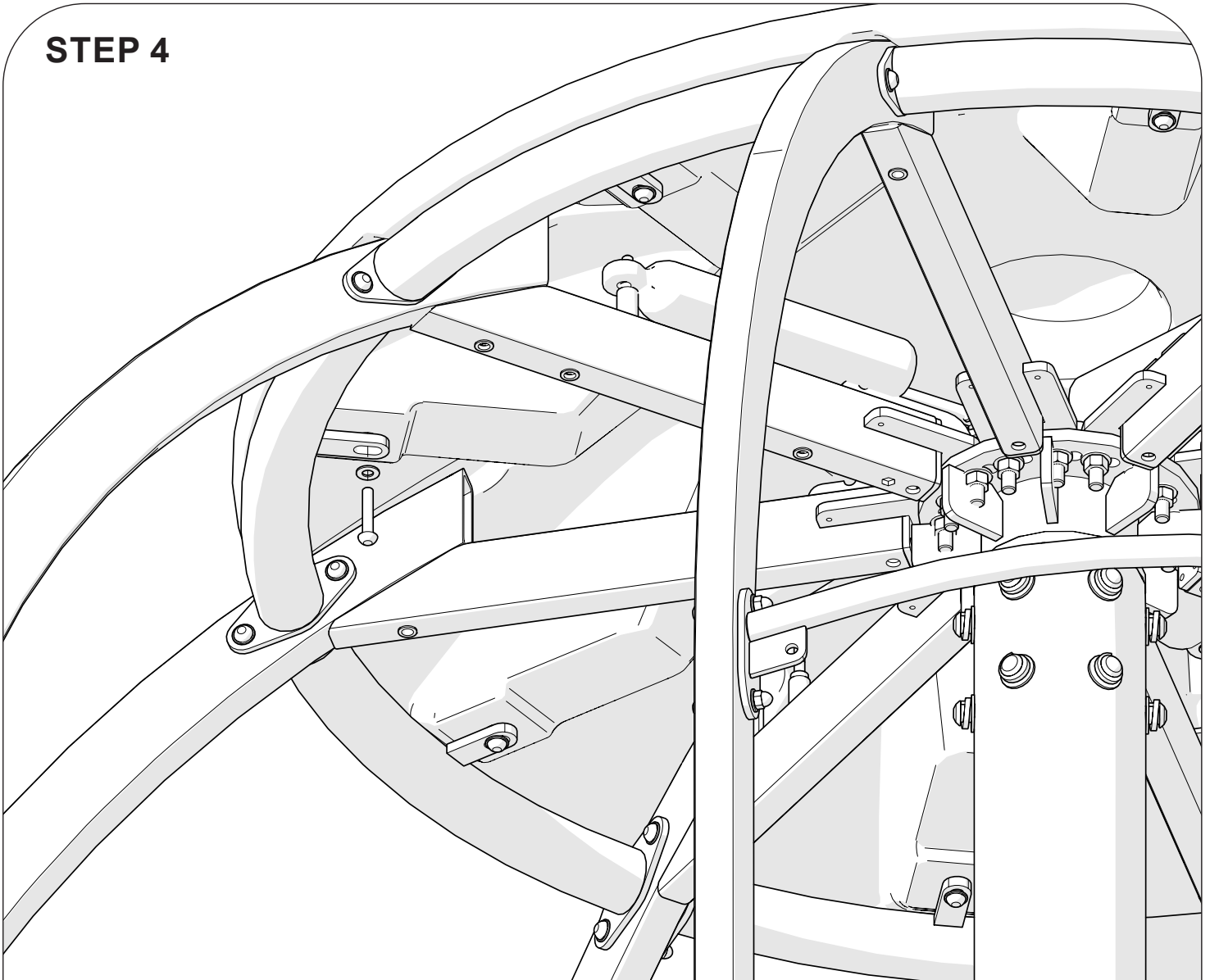
4x		Arch Support (249265)	16x		$\frac{3}{8}$ " SAE Washer (100365)
16x		$\frac{3}{8}$ x $1 \frac{11}{16}$ " BHCS (123224)	16x		$\frac{3}{8}$ " Flange Nut (100353)
16x		$\frac{1}{2}$ " SAE Flat Washer (113550)			


STEP 3



2x		Center Post Ring Weldment (249268)	10x		$\frac{3}{8}$ " SAE Washer (100365)
2x		Center Ring Permalene (246424)	2x		$\frac{3}{8}$ " Low Crown Hex Nut (100349)
2x		$\frac{3}{8}$ x $1 \frac{1}{8}$ " BHCS (100198)	6x		$\frac{3}{8}$ " Flange Nut (100353)
6x		$\frac{3}{8}$ x $\frac{7}{8}$ " BHCS (100196)			

STEP 4



8x 

$\frac{3}{8}$ x 2" BHCS
(100173)

8x 

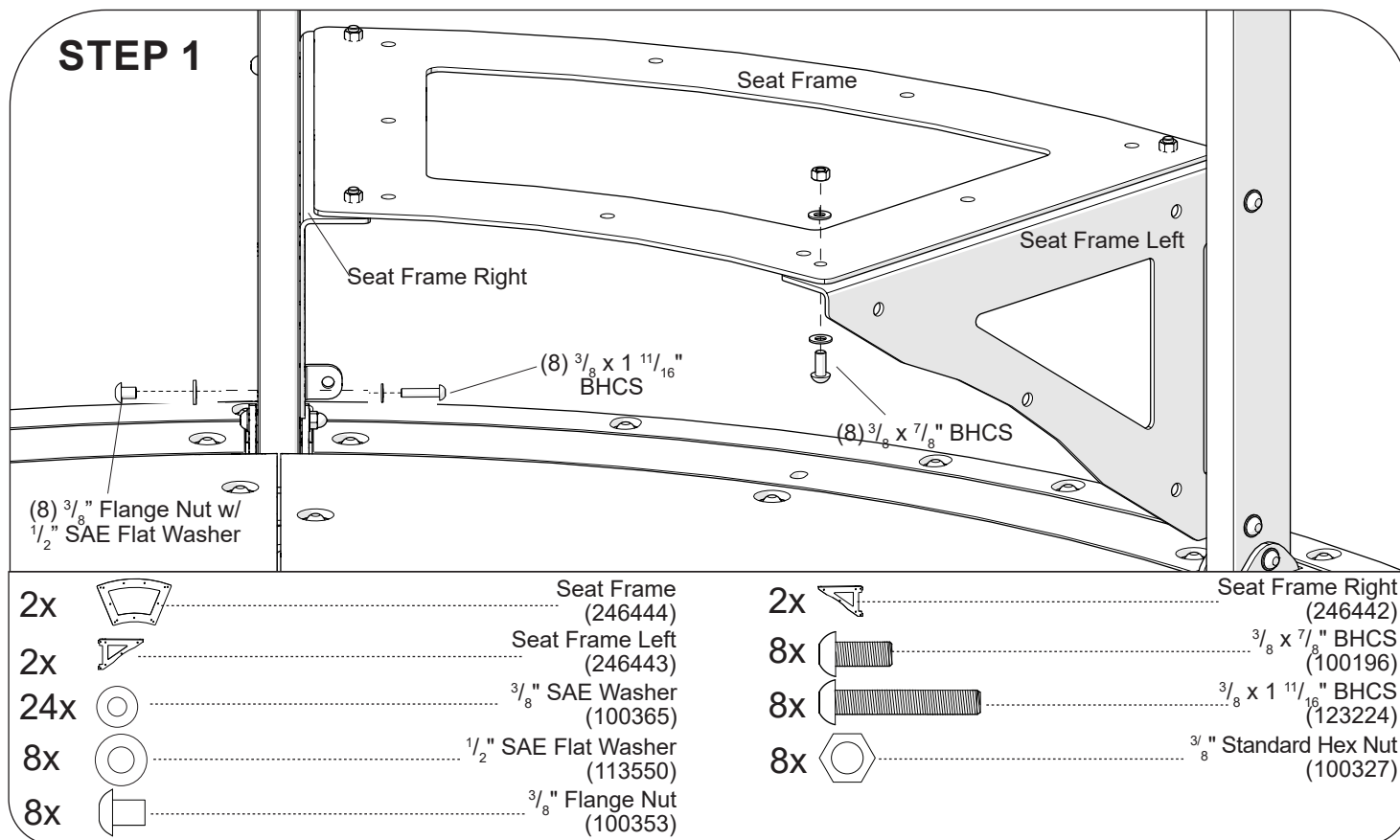
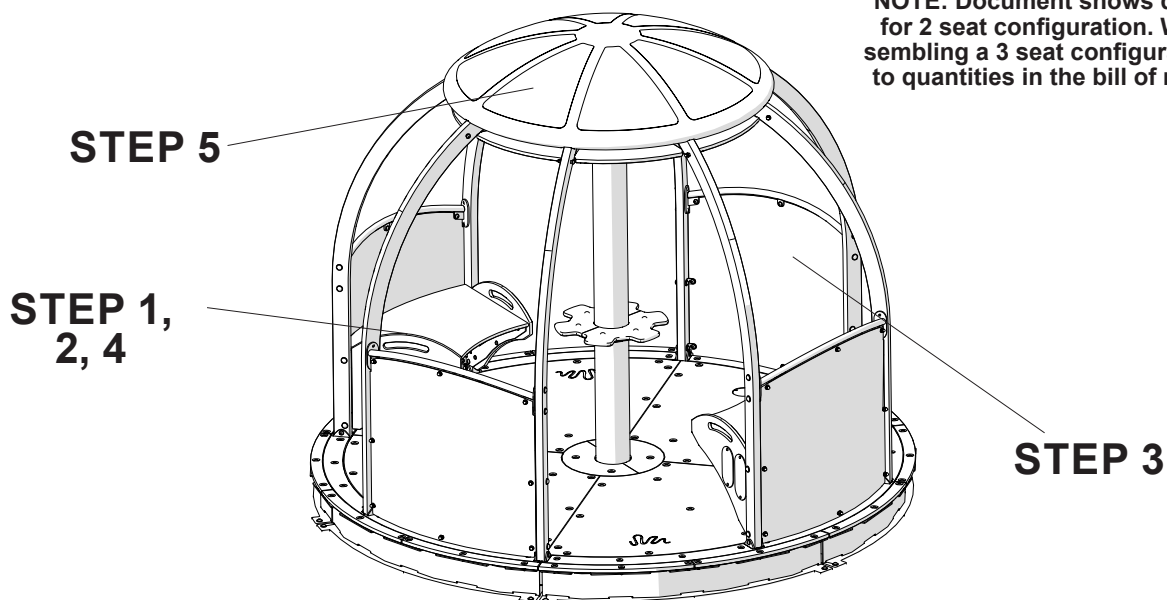
$\frac{3}{8}$ " SAE Washer
(100365)

1x 

Spinner Top
(215474)

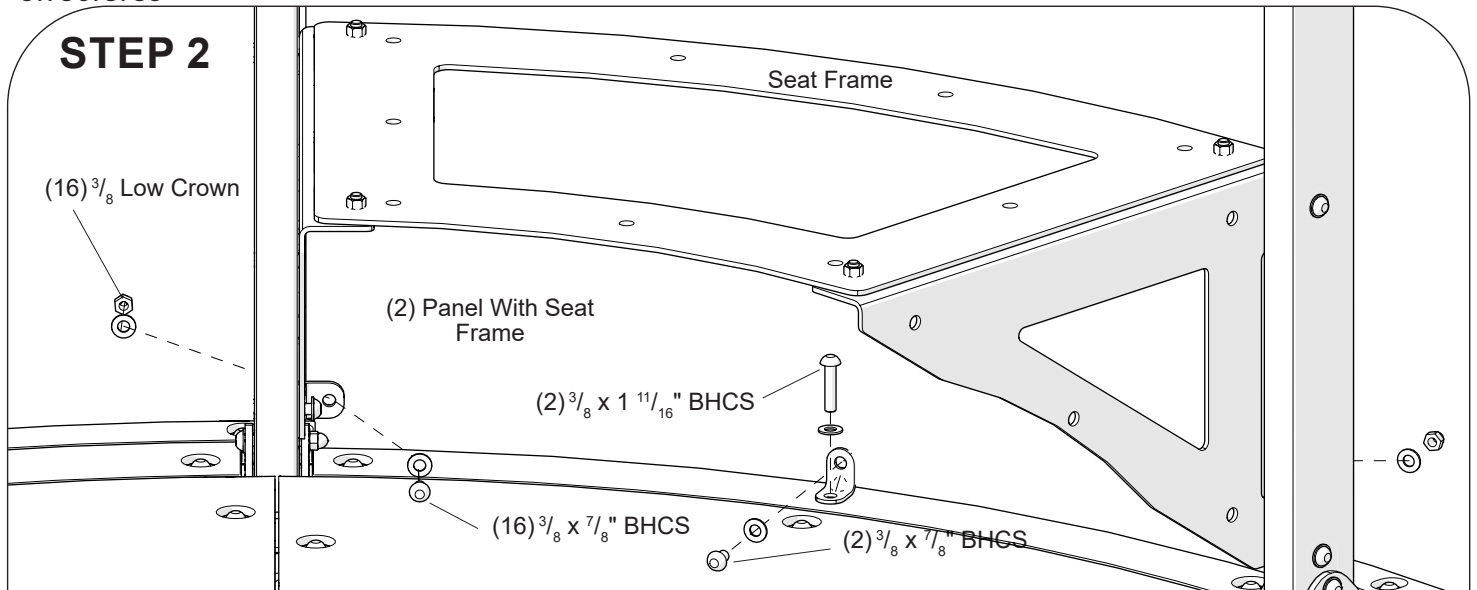
INTERIOR II

NOTE: Document shows quantities for 2 seat configuration. When assembling a 3 seat configuration refer to quantities in the bill of materials.



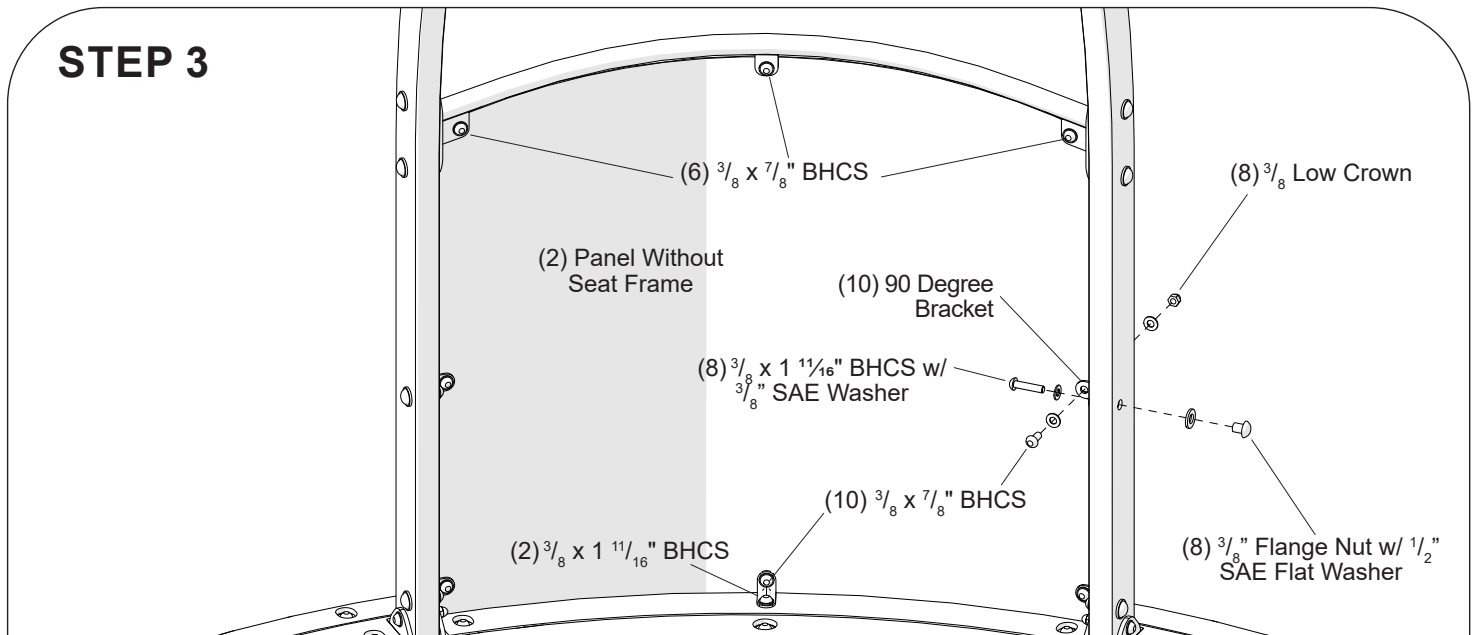
NOTE: Document shows quantities
for 2 seat configuration. When as-
sembling a 3 seat configuration refer
to quantities in the bill of materials.

STEP 2



16x		3/8" Low Crown Hex Nut (100349)	34x		3/8" SAE Washer (100365)
16x		3/8 x 7/8" BHCS (100196)	2x		90 Degree Bracket (147807)
2x		3/8 x 1 11/16" BHCS (123224)	2x		Perf Panel (246428)

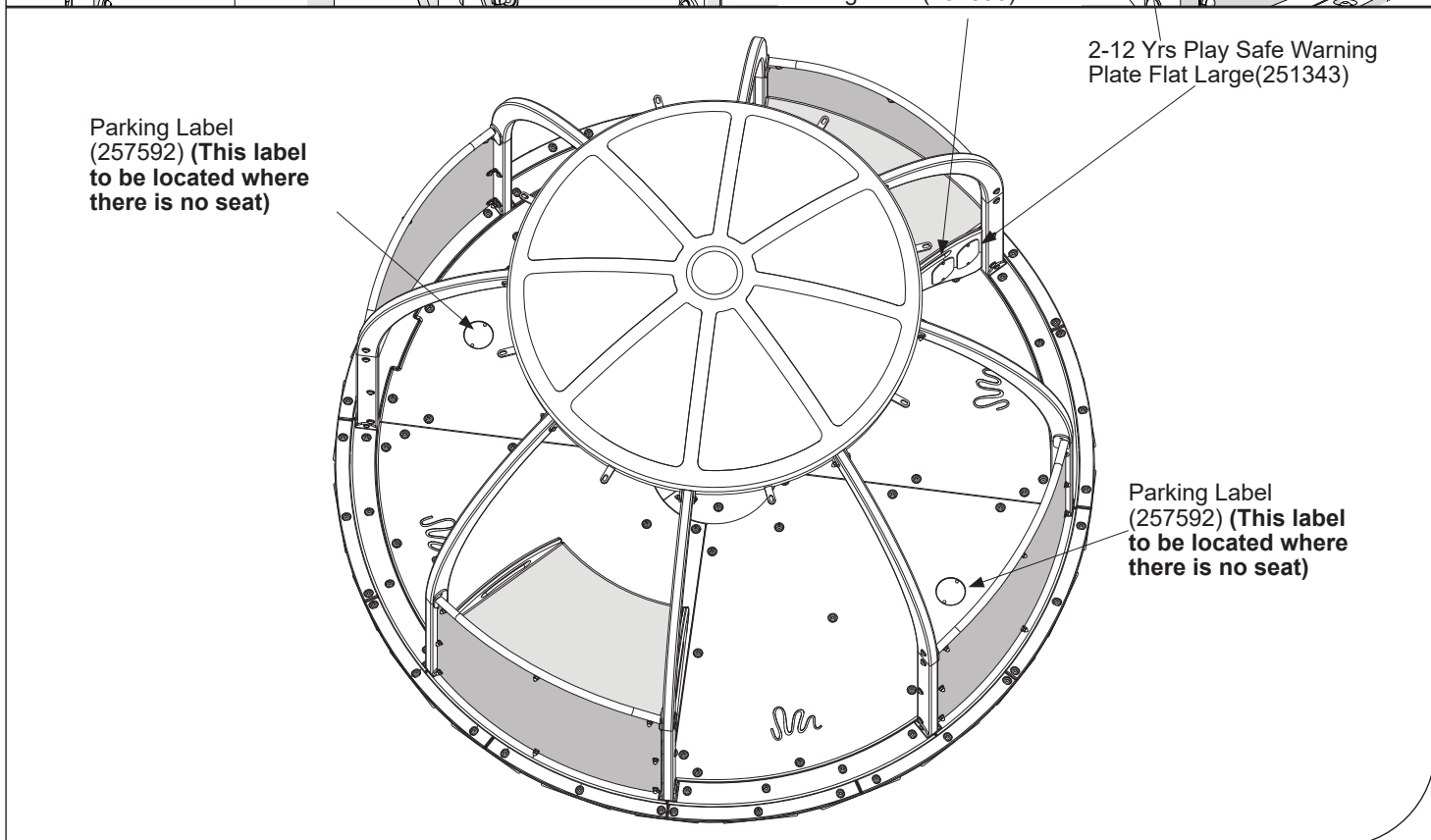
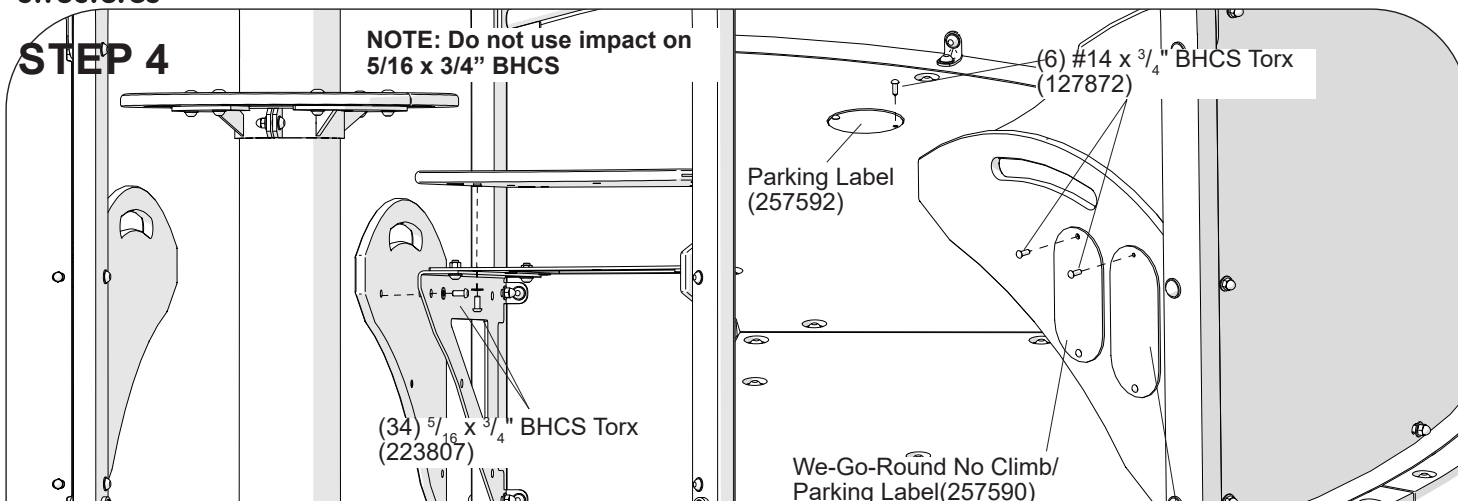
STEP 3



2x		Perf Panel (246428)	10x		90 Degree Bracket (147807)
16x		3/8" Low Crown Hex Nut (100349)	42x		3/8" SAE Washer (100365)
10x		3/8 x 1 11/16" BHCS (123224)	8x		3/8" Flange Nut (100353)
16x		3/8 x 7/8" BHCS (100196)	8x		1/2" SAE Flat Washer (113550)

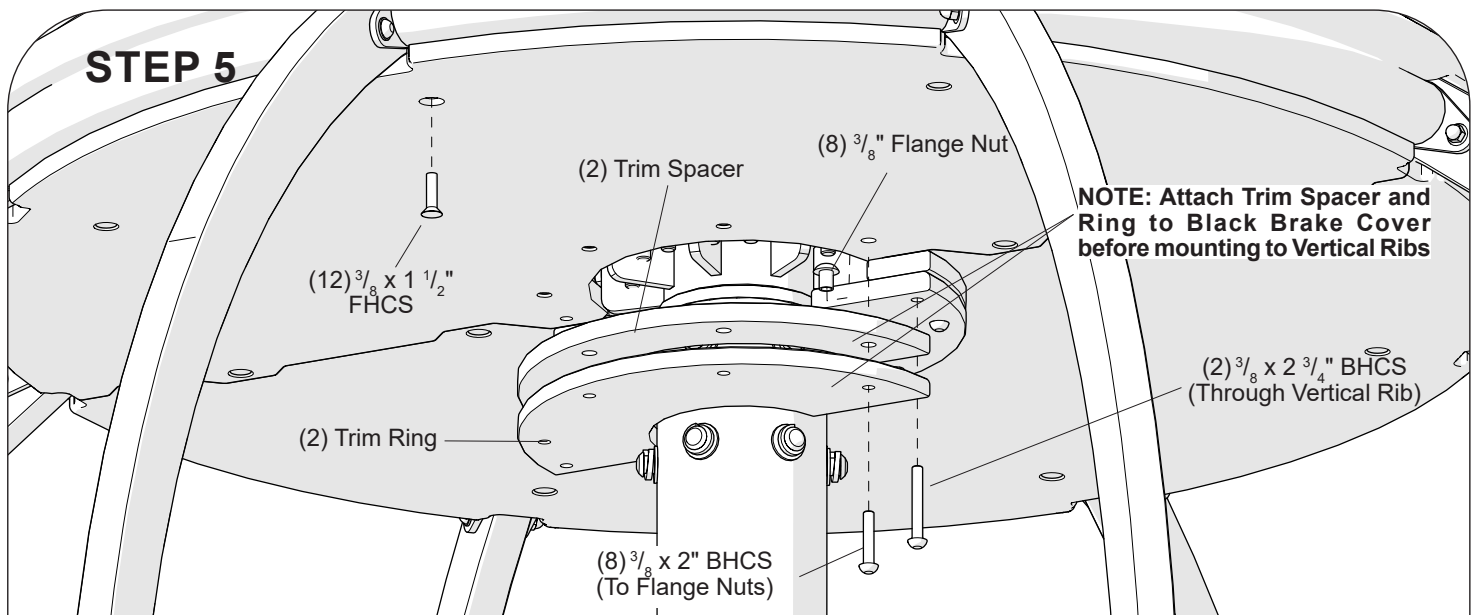
STEP 4

**NOTE: Do not use impact on
5/16 x 3/4" BHCS**



2x		Seat Top (246425)	2x		Seat Panel Right (246427)
2x		Seat Panel Left (246426)	34x		5/16 x 3/4 inch BHCS Torx (223807)
34x		5/16 inch SAE Flat Washer (223956)	6x		#14 x 3/4 inch BHCS Torx (127872)
1x		Parking Label (257592)	1x		2-12 Yrs Play Safe Warning Plate Flat Large (251343)
1x		Warning No Climb/Parking Label (257590)			

STEP 5



2x		Black Brake Cover (215887)	2x		Trim Ring (218445)
2x		Black Trim Spacer (218444)	8x		$\frac{3}{8}$ x 2" BHCS (100173)
2x		$\frac{3}{8}$ x 2 $\frac{3}{4}$ " BHCS (100175)	12x		$\frac{3}{8}$ x 1 $\frac{1}{2}$ " FHCS (151421)
8x		$\frac{3}{8}$ " Flange Nut (100353)			



Parts List - 2 Seat Option

Part#	Description	Qty.
147807	Angle Brkt Pnt, Specify Color	12
292617	Bushing Uhmw 6" Tube	2
212866	Globe Pipe Bottom W/Out Net, Specify Color	8
215474	Globe Spinner Top Roto, Specify Color	1
215887	Globe Brake Cover, Black in Color	2
254134	1.25 Offset Bearing + Hub Asm	1
218444	Trim Spacer Globe, Black in Color	2
218445	Trim Ring Globe, Black in Color	2
222306	Global Motion® Hub Clamp Sst	1
222399	#3 Rebar X 18"	2
246424	Ctr Ring Perm, Specify Color	2
246425	Seat Pnl Top, Specify Color	2
246426	Seat Pnl Lh, Specify Color	2
246427	Seat Pnl Rh, Specify Color	2
246428	Perf Pnl Pnt, Specify Color	4
297889	Main Deck Gripx, Black in Color	4
246435	Ctr Deck Gripx, Black in Color	2
246441	Otr Ring Perm 4 Hole, Black in Color	4
246442	Seat Frm Rh Pnt, Specify Color	2
246443	Seat Frm Lh Pnt, Specify Color	2
246444	Seat Frm Plt Pnt, Specify Color	2
297891	Otr Ring Perm With Tab Slot, Black in Color	4
258597	Otr Skirt GripX A, Gray in color	6
258598	Otr Skirt GripX B, Gray in color	6
248520	Btm Rib Mnt Machined	1
249255	Vert Rib With Mtg Pin 4 Inserts Pnt, Specify Color	2
249257	Vert Rib Wout Mtg Pin Pnt, Specify Color	4
249259	Vert Rib With Mtg Pin 1 Insert Pnt, Specify Color	2
249265	Arch Pnl Sprt Weldt Pnt, Specify Color	4
249266	7 Flg Btm Rib Pnt, Specify Color	4
249267	3 Flg Btm Rib Pnt, Specify Color	4
249268	Ctr Post Ring Weldt Pnt, Specify Color	2
289361	6.0 OD x .25 x 119.5" Zp Post Pnt, Specify Color	1
249286	Horiz Btm Sprt Weldt Pnt, Specify Color	8
249289	Otr Skirt Weldt Pnt, Specify Color	6
249292	Rib Clmp, Install Weldt Pnt, Specify Color	4
249295	Rib, Install Pnt, Specify Color	6
249297	Rib Ftr, Install Pnt, Specify Color	6
249299	Rib Brkt, Install Pnt, Specify Color	12
250371	Otr Ring Plt Pnt, Specify Color	4
250643	4" X 300" Perf Drain Pipe	1
250644	4" Flexible Drain Tee	1
250645	4" Drain Cap	2
251007	4" Drain Coupler	2
215884	70 Series Shock	4
253792	9" Plate Pnt, Specify Color	12
254468	Bushing Belt, Black	1
250568	Hdw Pkg We-Go-Round Rib Plates Asm	1
100206	Hex Cap 3/8X1i Sst Pat	36
100208	Hex Cap 3/8X1-1/2 Sst Pat	4
100327	Nut Hex Std 3/8-16 Sst	40
100365	Washer Flat Sae 3/8I Sst	82
100610	Rivet 1/4X5/8I Drv As	2
168198	Lag Scr Bh 6Lp 3/8X1-1/2I	2
253850	Hdw Pkg We-Go-Round Skirt Asm	1
100198	Bhcs 6Lp 3/8X1-1/8I Sst	60
100362	Washer Flat 3/8I Sst	60

289338	Hdw Pkg We-Go-Round Hub/Bushings	1
100201	Bhcs 6Lp 5/8X1-1/2I Sst	12
100611	Rivet 1/4X3/8I Drv As	12
109680	Cable Tie 5-3/4I Black	1
129500	Washer Flat Sae 5/8I Sst	12
136931	Nut Hex Nylok 3/8-16 Sst	8
175652	Washer Lock Spring 5/8I Sst	12
250580	Hdw Pkg We-Go-Round Frame Asm	1
100174	Bhcs 6Lp 3/8X2-1/2Istpat	32
100198	Bhcs 6Lp 3/8X1-1/8I Sst	32
100327	Nut Hex Std 3/8-16 Sst	32
100349	Nut L/C Cap 3/8-16 Sst	32
100365	Washer Flat Sae 3/8I Sst	128
113550	Washer Flat Sae 1/2I Sst	32
129692	Nut Hex Std 1/2-13 Sstpat	16
131862	Hex Cap 1/2X2-1/4 Sst	16
250586	Hdw Pkg We-Go-Round Brake Cover	1
100173	Bhcs 6Lp 3/8X2i Sst Pat	16
100175	Bhcs 6Lp 3/8X2-3/4I Sst	2
100353	Flg Nut 6Lp 3/8-16 Sst	8
100365	Washer Flat Sae 3/8I Sst	8
151421	Fhcs 6Lp 3/8X1-1/2Ist W/Patch	12
250587	Hdw Pkg We-Go-Round Perf Panel W/O Seat	2
100196	Bhcs 6Lp 3/8X7/8I Sst	8
100349	Nut L/C Cap 3/8-16 Sst	8
100353	Flg Nut 6Lp 3/8-16 Sst	8
100365	Washer Flat Sae 3/8I Sst	25
113550	Washer Flat Sae 1/2I Sst	8
123224	Bhcs 6Lp 3/8X1-11/16I Sst	9
293793	Hdw Pkg We-Go-Round Perf Panel W/Seat	2
100196	Bhcs 6Lp 3/8X7/8I Sst	12
100327	Nut Hex Std 3/8-16 Sst	4
100349	Nut L/C Cap 3/8-16 Sst	8
100353	Flg Nut 6Lp 3/8-16 Sst	8
100365	Washer Flat Sae 3/8I Sst	33
113550	Washer Flat Sae 1/2I Sst	8
123224	Bhcs 6Lp 3/8X1-11/16I Sst	9
223807	Bhcs 6Lp 5/16I -18 X 3/4I Sst	17
223956	Washer Flat Sae 5/16I Sst	17
258581	Hdw Pkg We-Go-Round Decking	1
100362	Washer Flat 3/8I Sst	80
113027	Bhcs 6Lp 3/8X1-3/8I Sst	80
250590	Hdw Pkg We-Go-Round Center Ring	1
100196	Bhcs 6Lp 3/8X7/8I Sst	6
100198	Bhcs 6Lp 3/8X1-1/8I Sst	2
100349	Nut L/C Cap 3/8-16 Sst	2
100353	Flg Nut 6Lp 3/8-16 Sst	6
100365	Washer Flat Sae 3/8I Sst	10
258556	Hdw Pkg We-Go-Round Labels	1
251343	2-12 Yrs Play Safe Warning Plate	1
127872	Bhcs Torx #14 X 3/4 Sst Thread Type Ab	8
127463	Bit Hex Tpp T27 (Torx)	1
257590	No Climb/Parking Plate	1
257592	Parking Plate	2

DB = Direct Bury



Parts List - 3 Seat Option

Part#	Description	Qty.
147807	Angle Brkt Pnt, Specify Color	8
292617	Bushing Uhmw 6" Tube	2
212866	Globe Pipe Bottom W/Out Net, Specify Color	8
215474	Globe Spinner Top Roto, Specify Color	1
215887	Globe Brake Cover, Black in Color	2
254134	1.25 Offset Bearing + Hub Asm	1
218444	Trim Spacer Globe, Black in Color	2
218445	Trim Ring Globe, Black in Color	2
222306	Global Motion® Hub Clamp Sst	1
222399	#3 Rebar X 18"	2
246424	Ctr Ring Perm, Specify Color	2
246425	Seat Pnl Top, Specify Color	3
246426	Seat Pnl Lh, Specify Color	3
246427	Seat Pnl Rh, Specify Color	3
246428	Perf Pnl Pnt, Specify Color	4
297889	Main Deck Gripx, Black in Color	4
246435	Ctr Deck Gripx, Black in Color	2
246441	Otr Ring Perm 4 Hole, Black in Color	4
246442	Seat Frm Rh Pnt, Specify Color	3
246443	Seat Frm Lh Pnt, Specify Color	3
246444	Seat Frm Plt Pnt, Specify Color	3
297891	Otr Ring Perm With Tab Slot, Black in Color	4
258597	Otr Skirt Gripx, Gray in Color	6
258598	Otr Skirt Gripx B, Gray in color	6
248520	Btm Rib Mnt Machined	1
249255	Vert Rib With Mtg Pin 4 Inserts Pnt, Specify Color	2
249257	Vert Rib Wout Mtg Pin Pnt, Specify Color	4
249259	Vert Rib With Mtg Pin 1 Insert Pnt, Specify Color	2
249265	Arch Pnl Sprt Weldt Pnt, Specify Color	4
249266	7 Flg Btm Rib Pnt, Specify Color	4
249267	3 Flg Btm Rib Pnt, Specify Color	4
249268	Ctr Post Ring Weldt Pnt, Specify Color	2
289361	6.0 OD x .25 x 119.5" ZP Post Pnt, Specify Color	1
249286	Horiz Btm Sprt Weldt Pnt, Specify Color	8
249289	Otr Skirt Weldt Pnt, Specify Color	6
249292	Rib Clmp, Install Weldt Pnt, Specify Color	4
249295	Rib, Install Pnt, Specify Color	6
249297	Rib Ftr, Install Pnt, Specify Color	6
249299	Rib Brkt, Install Pnt, Specify Color	12
250371	Otr Ring Plt Pnt, Specify Color	4
215884	70 Series Shock	4
250643	4" x 300" Perf Drain Pipe	1
250644	4" Flexible Drain Tee	1
250645	4" Drain Cap	2
251007	4" Drain Coupler	2
253792	9" Plate Pnt, Specify Color	12
254468	Bushing Belt, Black	1

250568	Hdw Pkg We-Go-Round Rib Plates Asm	1
100206	Hex Cap 3/8X1i Sst Pat	36
100208	Hex Cap 3/8X1-1/2 Sst Pat	4
100327	Nut Hex Std 3/8-16 Sst	40
100365	Washer Flat Sae 3/8I Sst	82
100610	Rivet 1/4X5/8I Drv As	2
168198	Lag Scr Bh 6Lp 3/8X1-1/2I	2

253850	Hdw Pkg We-Go-Round Skirt Asm	1
100198	Bhcs 6Lp 3/8X1-1/8I Sst	60
100362	Washer Flat 3/8I Sst	60

289338	100201
	100611
	109680
	129500
	136931
	175652

250580	100174
	100198
	100327
	100349
	100365
	113550
	129692
	131862

250586	100173
	100175
	100353
	100365
	151421

250587	100196
	100349
	100353
	100365
	113550
	123224

293793	100196
	100327
	100349
	100353
	100365
	113550
	123224
	223807
	223956

258581	100362
	113027

250590	100196
	100198
	100349
	100353
	100365

258558	127463
	127872
	251343
	257590
	257592

Hdw Pkg We-Go-Round Hub/Bushings	1
Bhcs 6Lp 5/8X1-1/2I Sst	12
Rivet 1/4X3/8I Drv As	12
Cable Tie 5-3/4I Black	1
Washer Flat Sae 5/8I Sst	12
Nut Hex Nylok 3/8-16 Sst	8
Washer Lock Spring 5/8I Sst	12

Hdw Pkg We-Go-Round Frame Asm	1
Bhcs 6Lp 3/8X2-1/2Istpat	32
Bhcs 6Lp 3/8X1-1/8I Sst	32
Nut Hex Std 3/8-16 Sst	32
Nut L/C Cap 3/8-16 Sst	32
Washer Flat Sae 3/8I Sst	128
Washer Flat Sae 1/2I Sst	32
Nut Hex Std 1/2-13 Sstpat	16
Hex Cap 1/2X2-1/4 Sst	16

Hdw Pkg We-Go-Round Brake Cover	1
Bhcs 6Lp 3/8X2i Sst Pat	16
Bhcs 6Lp 3/8X2-3/4I Sst	2
Flg Nut 6Lp 3/8-16 Sst	8
Washer Flat Sae 3/8I Sst	8
Fhcs 6Lp 3/8X1-1/2Ist W/Patch	12

Hdw Pkg We-Go-Round Perf Panel W/O Seat	1
Bhcs 6Lp 3/8X7/8I Sst	8
Nut L/C Cap 3/8-16 Sst	8
Flg Nut 6Lp 3/8-16 Sst	8
Washer Flat Sae 3/8I Sst	25
Washer Flat Sae 1/2I Sst	8
Bhcs 6Lp 3/8X1-11/16I Sst	9

Hdw Pkg We-Go-Round Perf Panel W/Seat	3
Bhcs 6Lp 3/8X7/8I Sst	12
Nut Hex Std 3/8-16 Sst	4
Nut L/C Cap 3/8-16 Sst	8
Flg Nut 6Lp 3/8-16 Sst	8
Washer Flat Sae 3/8I Sst	33
Washer Flat Sae 1/2I Sst	8
Bhcs 6Lp 3/8X1-11/16I Sst	9
Bhcs 6Lp 5/16I -18 X 3/4I Sst	17
Washer Flat Sae 5/16I Sst	17

Hdw Pkg We-Go-Round Decking	1
Washer Flat 3/8I Sst	80
Bhcs 6Lp 3/8X1-3/8I Sst	80

Hdw Pkg We-Go-Round Center Ring	1
Bhcs 6Lp 3/8X7/8I Sst	6
Bhcs 6Lp 3/8X1-1/8I Sst	2
Nut L/C Cap 3/8-16 Sst	2
Flg Nut 6Lp 3/8-16 Sst	6
Washer Flat Sae 3/8I Sst	10

Hdw Pkg We-Go-Round Labels	1
Bit Hex Tpp T27 (Torx)	1
Bhcs Torx #14 X 3/4 Sst Thread Type Ab	6
2-12 Yrs Play Safe Warning Plate	1
No Climb/Parking Plate	1
Parking Plate	1



Specifications

Kids In Motion 248819 We-Go-Round™ w/ Perf Panels

Center Post:	6.000" (152 mm) O.D. x (.250")(6,35 mm) wall HR Black D.O.M. zinc plated Steel Tube. Finish: ProShield®, color specified.
Shock:	70 Series.
GripX Platform:	3/4" (19,05 mm) Thick recycled Permalene®, black in color.
Brake Cover:	Recycled Permalene, black in color.
Mounting Hub Assembly:	Comprised of 1/2" (12,7 mm) thick stainless steel plate, 11 Ga. (.120")(3,05 mm) stainless steel sheet, steel bearing shaft.
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).
Bottom Rib:	7GA. (.179")(4,54 mm) Thick HRPO steel plate. Finish: ProShield, black in color.
Middle & Bottom Pipe:	Weldment comprised of 2.375" (60,32 mm) O.D. RS20 (.095"-.105")(2,41 mm-2,66 mm) galvanized steel tube, 1/4" (6,35 mm) thick HRPO steel plate and 3/8" (9,52 mm) thick stainless steel tab. Finish: ProShield, color specified.
Base Bushing:	Oil-Filled UHMW PE.
Spinner Top:	Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.
Rib:	Weldment comprised of 1.5" (38, 1 mm) x 3.0" (76, 2 mm) x (.180" (4, 57 mm) wall HRPO steel tube, 3/8" (9, 52 mm) thick stainless steel tab, 3/8" (9, 52 mm) O.D. stainless steel pin. 3/8" (9, 52 mm) thick HRPO steel plate with 1/4" (6, 35 mm) thick HRPO steel plate. Finish: ProShield®, color specified.
Bottom Mount:	Weldment comprised of 7.000" (177 mm) O.D. x .188" (4, 77 mm) wall stainless steel tube and 1/4" (6, 35 mm) thick stainless steel plate.
Seat Permalene Panels:	3/4" thick recycled permalene, specify color
Seat Frame:	Comprised of 7 GA (.179") (4, 54 mm) thick HRPO steel plate. Finish: ProShield, specify color
Drain Pipe :	Comprised of 4" x 25' polypropylene perforated pipe.

Installation Time:	DB - Approx. 40 person hours
Concrete Req.:	DB - Approx. 2.07 yards - Square Footer DB - Approx. 1.5 yards. - If concrete is chosen in Foundation II - Step 4 detail.
Weight:	DB 2 Seat - 2100 lbs. DB 3 Seat - 2158 lbs.
Minimum Area Req.:	DB - 20' 10" (6.35 m)
Fall Height:	DB - 40"

VISTAr[®]ope



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 01/01/23

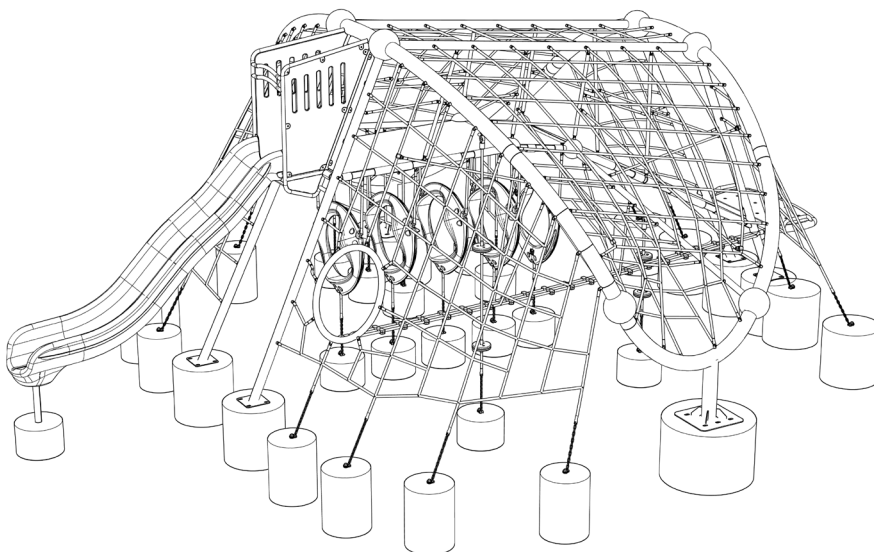
5916SP

GT WAVE

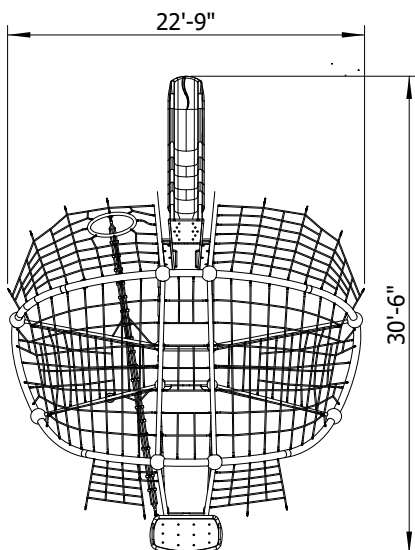


INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



ASSEMBLY VIEW



TOP VIEW

Parts List		
DESCRIPTION	QTY	PART NUMBER
GT WAVE PACKAGE	1	RC-GT1002
MINI TRITON POD	5	200780
6'ZIP WAVE SLIDE	1	176154
FOOTBUCK ASSY 34 3/8"LG	1	176384
HDW-SLIDE W/O HOOD	1	207380
TOP BELT 129 11/16" LG	1	220406
BOTTOM BELT 132 7/16" LG	1	220407
HDW KIT - GTWAVE BELTS	1	220574
5-12 AGE APPROPRIATE	2	168285
ASTM WARNING LABEL	1	169164
BASE PLATE PKG-2.375"OD	1	152853

HANDLING AND LIFTING EQUIPMENT



DELIVERY

Proper off-loading/lifting equipment is required

Crates are HEAVY, handle with care

Do not open crates until ready to assemble

ASSEMBLY

Lifting equipment is required to hold frames during assembly and to lift nets into position.



HANDLE WITH CARE

Product Name: GT Wave
Model Number: 5916SP
Size: Length: 30' 6"
Width: 22' 9"
Height: 10' 6"
Fall Height: 10'
Foundations: 31
Concrete Volume: 4.8 cubic yards
COMPLIANT WITH: ASTM F-1487
CSA Z614
Ages: 5-12 years
Use Zone: Length: 42' 6"
Width: 34' 9"



Technical Details:

Frame

Main Structure shall be 5-1/2" (139.8mm) diameter steel tubing combined with 3-1/2" (89mm) diameter steel tubing and 2-3/8" (60.5mm) diameter steel tubing, which after fabrication shall be powder coated in accordance with the specifications herein.

Climbing Nets

20mm diameter rope consists of 6 main strands, each strand containing 24 galvanized steel reinforcing strands within a polyamide sleeve, wrapped around a solid polyamide core for a total of 144 reinforcing strands. Ropes shall achieve a Class 7-8 colorfastness rating.

Rope Ball Connectors

One-piece compressed aluminum ball connector, compressed in place with 150,000 pounds source (667kN) to prevent the connection from moving and causing premature cable wear.

Rope End Fittings

One-piece compressed stainless steel end fitting.

Climber Pipe Junc-tions

11-3/4"(300mm) and 7-3/4" (200mm) diameter structural aluminum balls with aluminum covers. Shall be powder coated in accordance with the specifications herein.

Tensioning

Tensioning is achieved by way of a galvanized shackle and stainless steel eyebolt located at each Climber Pipe Junction capable of drawing the cables a minimum of 4"(100mm)

Rotomolded Components

Shall be uniform construction with rotationally molded linear low-density U.V. stabilized polyethylene with a 1/4" (6mm) nominal wall thickness, available in manufacturer's standard colors.

Flexible Surfaces

3/8" (10mm) thick textile-reinforced rubber belt.

Panels

Shall be made from 3/4" (18mm) thick high density, UV-stabilized and color impregnated polyethylene.

Fasteners

All fasteners shall be stainless steel with locking patch or locking compound.

Metal Finish

Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electro-static method to a minimum thickness of four mils. Promptly after application of the powder, the coating shall be oven-cured at 350 degrees Fahrenheit. The color(s) of the polyester coating shall be from the manufacturer's standard color selection.

Installation

Installation recommended by a licensed playground contractor, trained and certified on the applicable playground installation methods and standards, preferably certified by manufacturer or National Playground Contractors Association.

Description	Quantity
PIPE CONNECTOR - 300 (1)	1
PIPE CONNECTOR - 300 (2)	1
PIPE CONNECTOR - 300 (3)	1
PIPE CONNECTOR - 300 (4)	1
PIPE CONNECTOR - 300 (5)	2
PIPE CONNECTOR - 300 (6)	2
PIPE CONNECTOR - 200 (1)	1
PIPE CONNECTOR - 200 (2)	1
PIPE CONNECTOR - 200 (3)	1
PIPE CONNECTOR - 200 (4)	1
PIPE CONNECTOR CAP-300	8
PIPE CONNECTOR CAP-200	4
SHACKLE 5/16"	24
125A POST (1) Φ139.8 X L3600	2
125A POST (2) Φ139.8 X L2050	2
125A POST (3) Φ139.8 X L3000	2
125A POST (4-1) Φ139.8 X L620	1
125A POST (4-2) Φ139.8 X L810	1
125A POST (5) Φ139.8 X L545	2
ADHESIVE (LOCTITE)	1
80A POST (1) / SLIDE 1450 X 3750	1
80A POST (2) Φ89.1 X L3340	2
80A POST (3) Φ89.1 X L2976	2
BIG FLAT WASHER M10	132
BIG FLAT WASHER 3/4" (M20)	12
BOLT M16 X L50mm	80
50A PIPE (1) Φ60.5 X L1814	2
50A PIPE (2) Φ60.5 X L548	2
50A PIPE (3) Φ60.5 X L2554	2
50A PIPE (4) Φ60.5 X L800	2
50A PIPE (5) Φ60.5 X L2634	2
50A PIPE (6) Φ60.5 X L2383	2
50A PIPE (7) Φ60.5 X L660	1
BOLT M5 X L15mm	24
BRACKET BOLT M10 X L190mm	4
CAP NUT M10	66
FIX BOLT M8 X L45mm	2
25A PIPE (1) Φ34 X L1048	2
25A PIPE (2) Φ34 X L817	2
25A PIPE (3) Φ34 X L845	2
25A PIPE (4) Φ34 X L1303	2
FIX NUT M10 X L33mm	4
FIX NUT M8 X L15mm	26
FIX NUT M8 X L25mm	2
HSCS BOLT M10 X L25mm	16
FOOT FRAME 1400 X 750	1
HSCS BOLT M10 X L30mm	78
HSCS BOLT M8 X L15mm	12
NET (1-1, 1-2)	2
NET (2-1, 2-2)	2
NET (3-1, 3-2)	2
NET (4-1, 4-2, 4-3)	3
NET (5-1, 5-2)	2
NET (6-1, 6-2)	2
ROPE (7-1 A,B,C,D)	8

Description	Quantity
ROPE (7-2 A,B,C)	10
ROPE (7-3 A,B,C)	5
ROPE (8-1, 8-2)	2
ROPE (9)	1
ROPE (10-1, 10-2)	4
ROPE (11-1, 11-2)	2
50A RING PIPE	1
HSCS BOLT M8 X L25mm	12
HSCS BOLT M8 X L25mm	12
JOINT FIX BOLT M6 X L17mm	16
JOINT FIX BOLT M6 X L17mm	229
CHAIN 23 LINK	24
JOINT FIX BOLT M6 X L17mm	24
JOINT FIX BOLT M6 X L17mm	10
JOINT FIX NUT M6 X L20mm	16
ROPE CLAMP 40 X 75	6 SET
JOINT FIX NUT M6 X L20mm	229
JOINT FIX NUT M6 X L20mm	24
PANEL (1) 1280 X 630	1
PANEL (2) 980 X 1190	2
PANEL (3) 650 X 450	1
PANEL (4) 145 X 1230	2
JOINT FIX NUT M6 X L20mm	10
LOCK NUT M10	12
LOCK NUT M8	24
NUT M18	20
NUT 3/4" (M20)	52
QUICK LINK 6mm	24
SET ANCHOR BOLT 3/4"(M20) X L150	52
SHACKLE 3/8"	4
TUNNEL MODULE - BRACKET 44 X 71	10
SPRING WASHER M16	80
SPRING WASHER M18	20
TORX BIT	2
WASHER M10	40
WASHER M16	80
WASHER M18	20
WASHER M8	38
WASHER 3/4" (M20)	52

NET PACKAGE GENERAL TOOL LIST

Not all Tools may be required

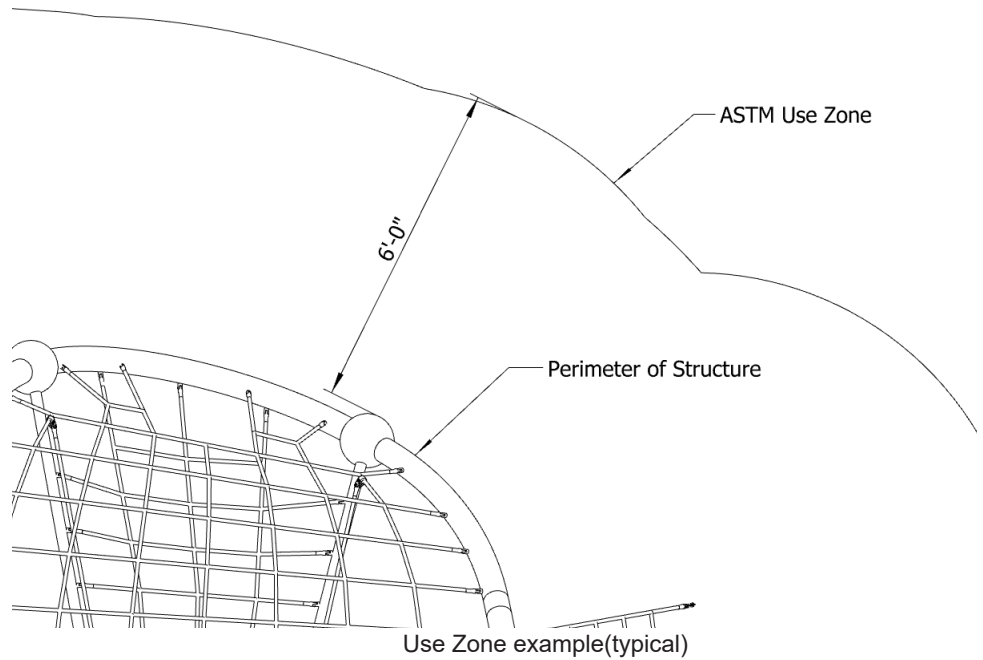
Metric tools are required unless otherwise noted

Tool Type	Size(s)	Minimum Quantity
Hex Bits	3mm	1
	5mm	2
	6mm	1
	8mm	1
"Tamper Proof" Torx Bit	TT45	2
Wrenches	10mm	1
	13mm	1
	17mm	1
	19mm	1
	20mm	1
	22mm	1
	25mm	1
	27mm	1
Sockets	13mm	1
	17mm	1
	19mm	1
	20mm	1
	22mm	1
	25mm	1
	27mm	1
Screwdriver	Philips #2	1
Pipe Wrench	18"	
Red Threadlock		
Beam Level	6'	1
Transit level		1
Ratchet Strap	27" min	2

IMPORTANT SURFACING INFORMATION

USE ZONES

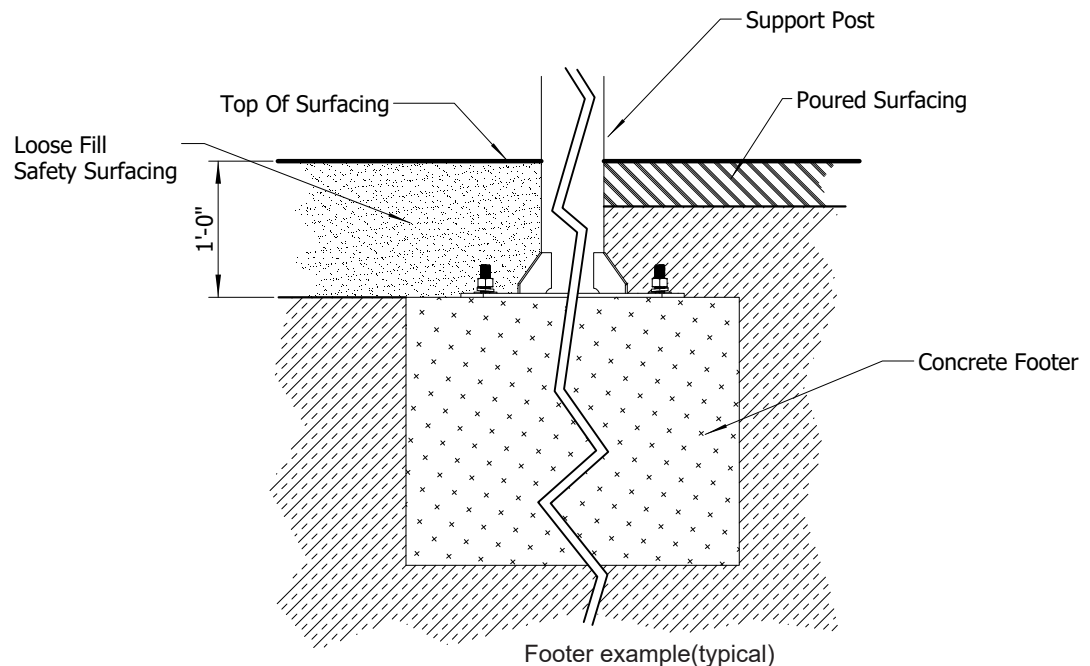
According to ASTM-F1487, all play structures require an unobstructed Use Zone of safety surfacing adequate for the fall height of the equipment--see the Product Specification--extending a minimum of 6' from all sides, as shown on the Layout Drawing. **Some features have additional requirements.** Installations outside the United States have different requirements.



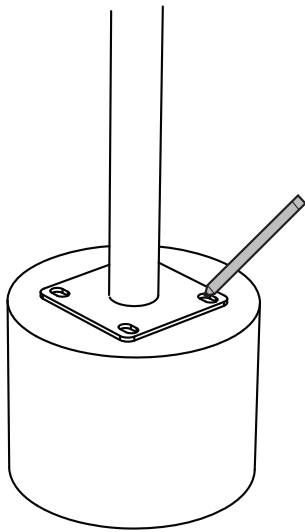
FOOTER DEPTH

Unless otherwise detailed in this manual, this product is designed to be installed with 12" of loose-fill safety surfacing above the level of the concrete footers.

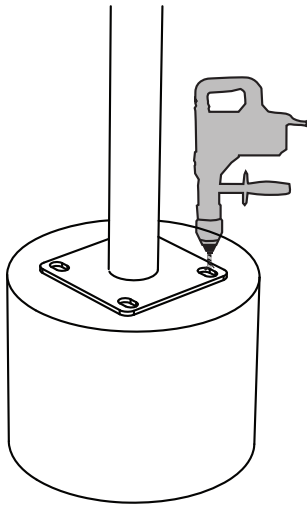
If unitary surfacing is used, footer depth **must be adjusted** to maintain 12" between the top of the footers and the top of the finished surfacing.



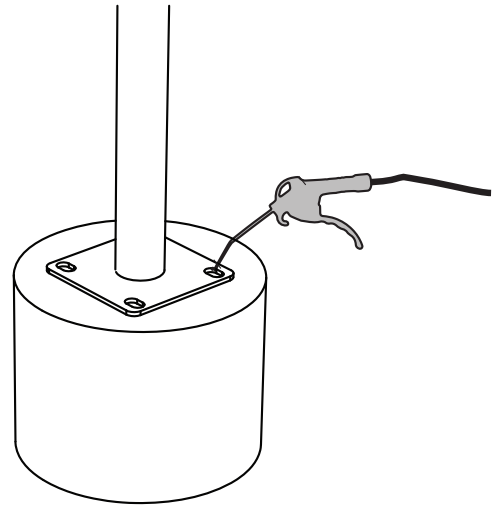
EXPANSION BOLT INSTALLATION (TYPICAL)



1

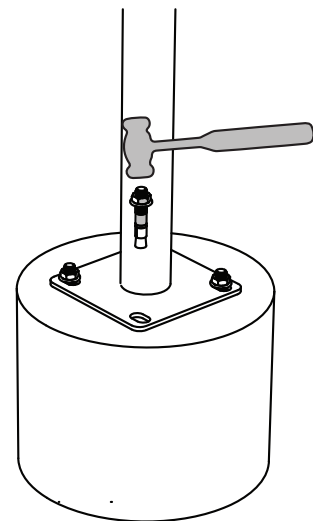


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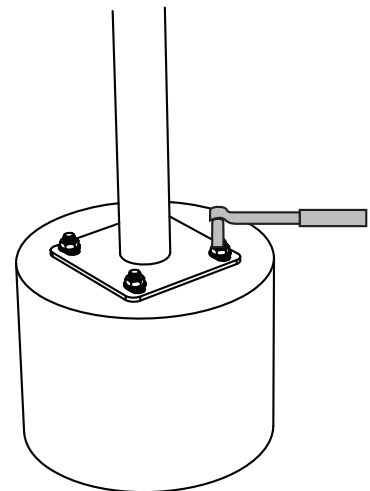


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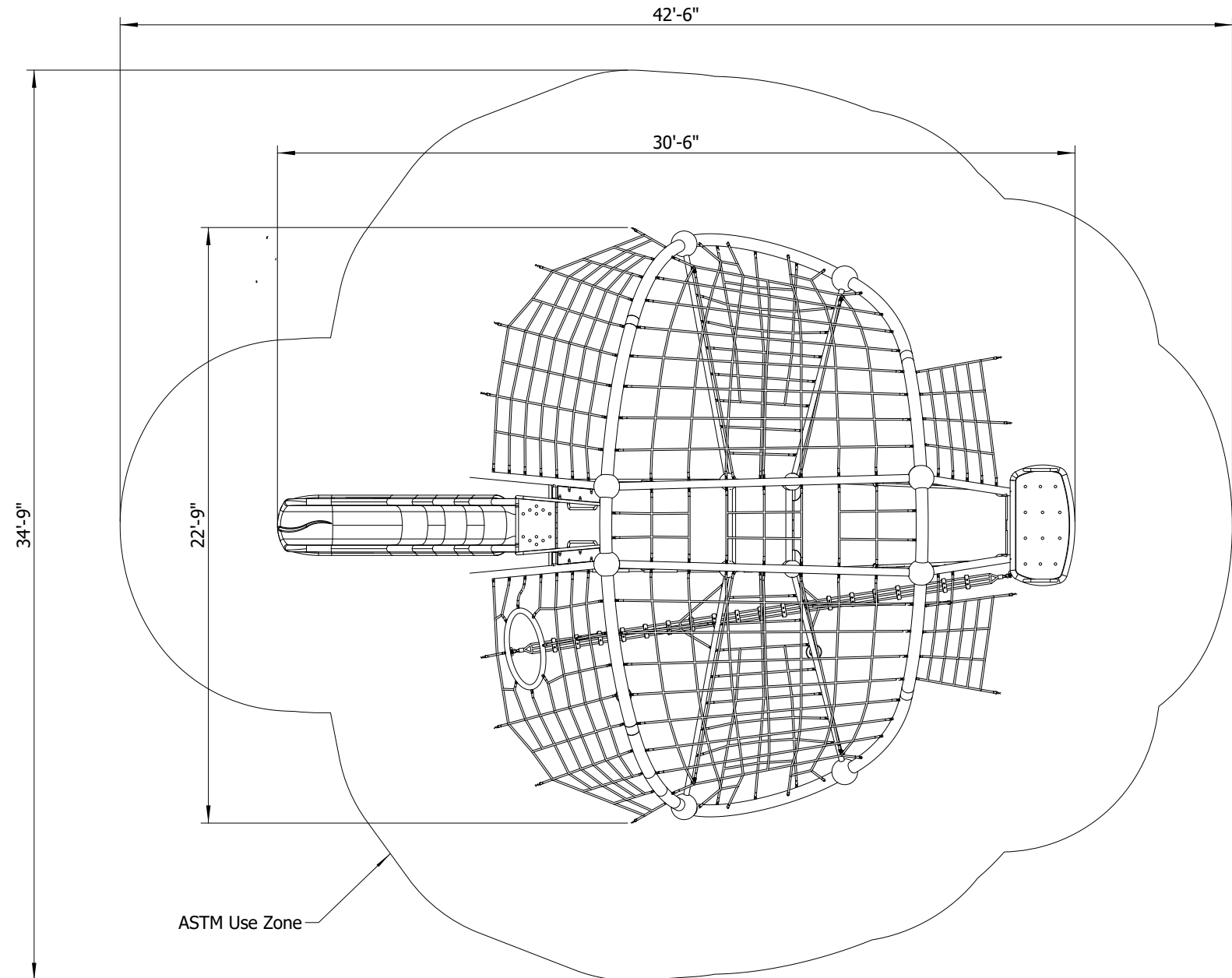
1. Use the base plates as a template to locate the anchor holes.
2. Use a hammer drill to drill the holes. The drill diameter must match the bolt and the depth must be at least the bolt length.
3. Clean the holes.
4. Assemble the washer and nut on the bolt and use a mallet to drive the bolts into the holes through the base plate.
5. Tighten the nut 3-5 turns past finger-tight to fix the anchor in place.



4

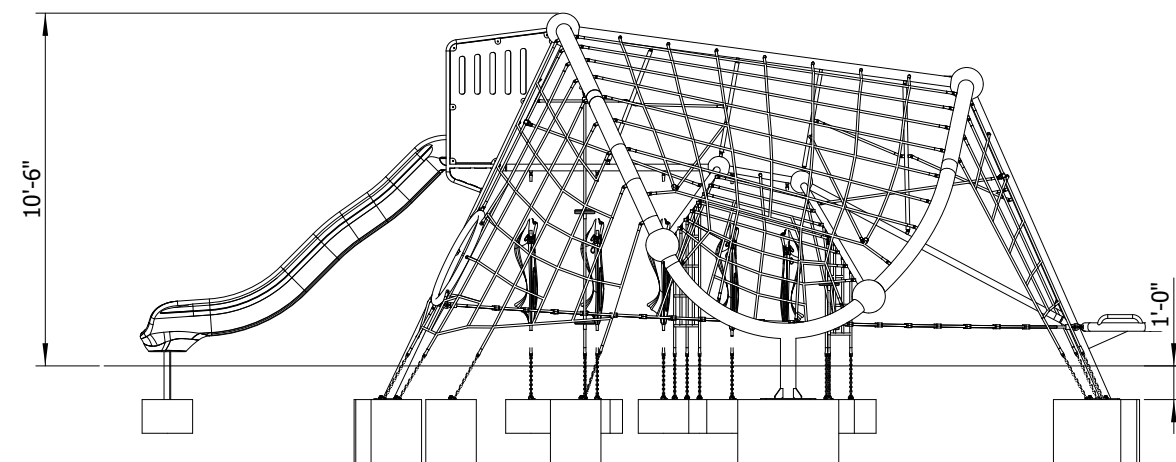
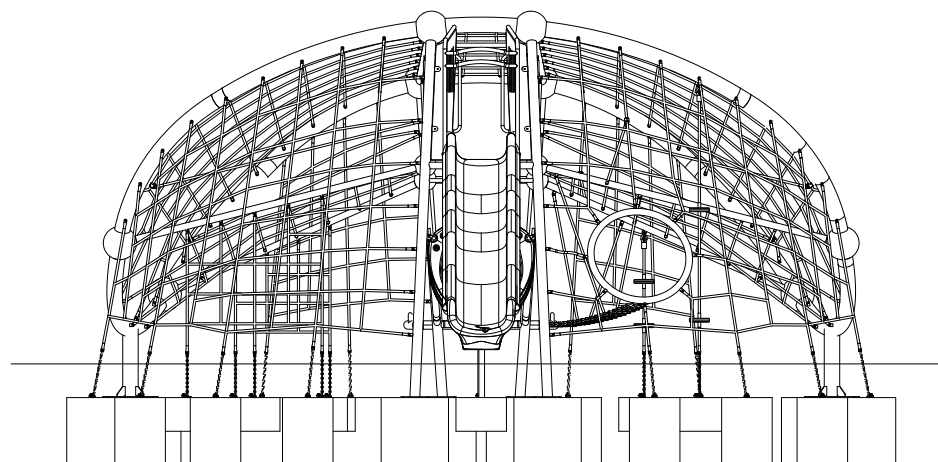


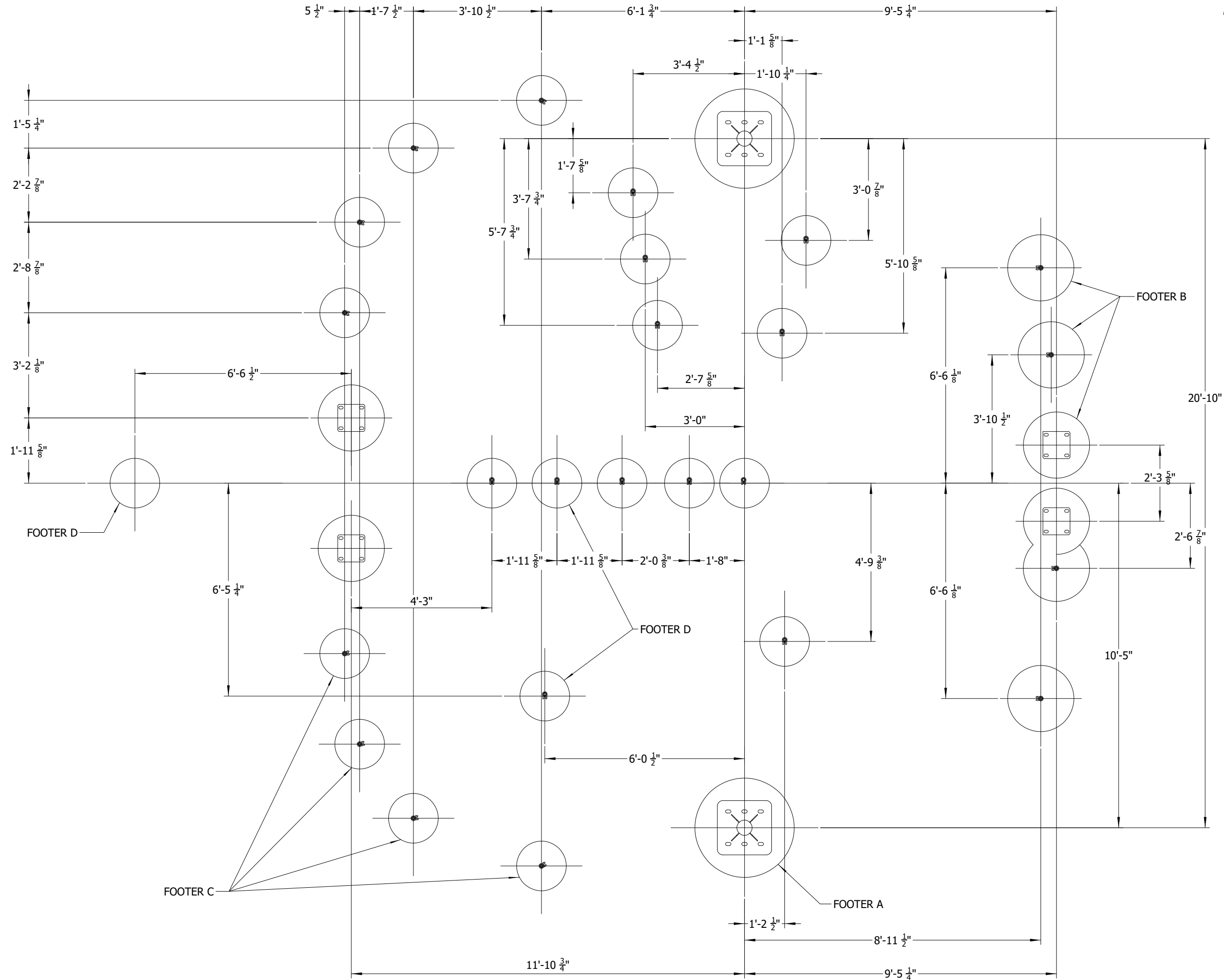
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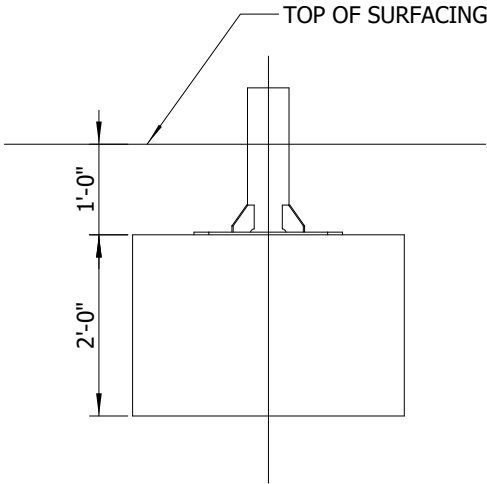
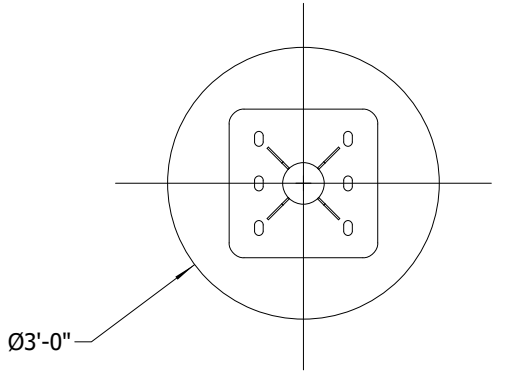


Footer Construction:

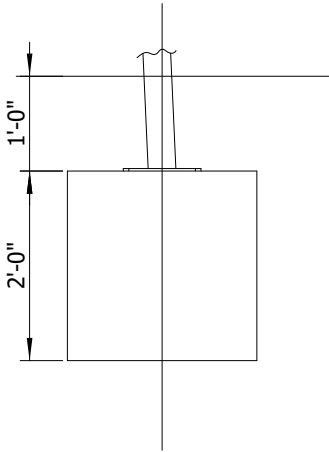
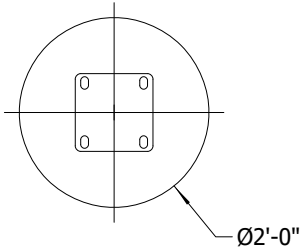
1. Excavate footer holes
2. Fill with concrete(minimum 3500 psi) and level
3. Once concrete has cured(minimum 24 hours,) continue with assembly



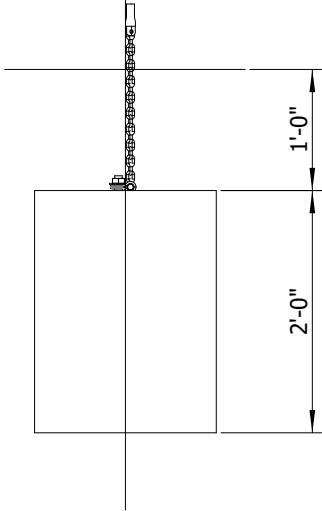
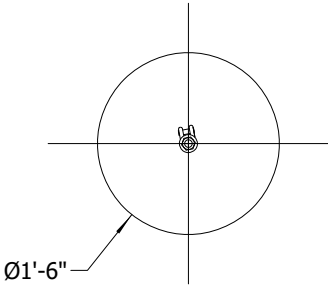




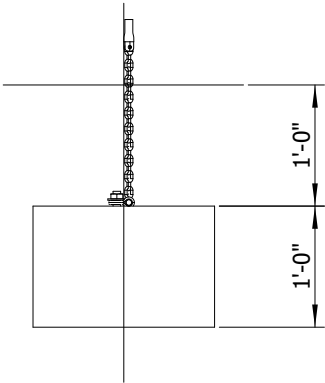
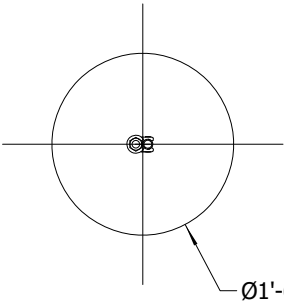
FOOTER A DETAIL



FOOTER B DETAIL

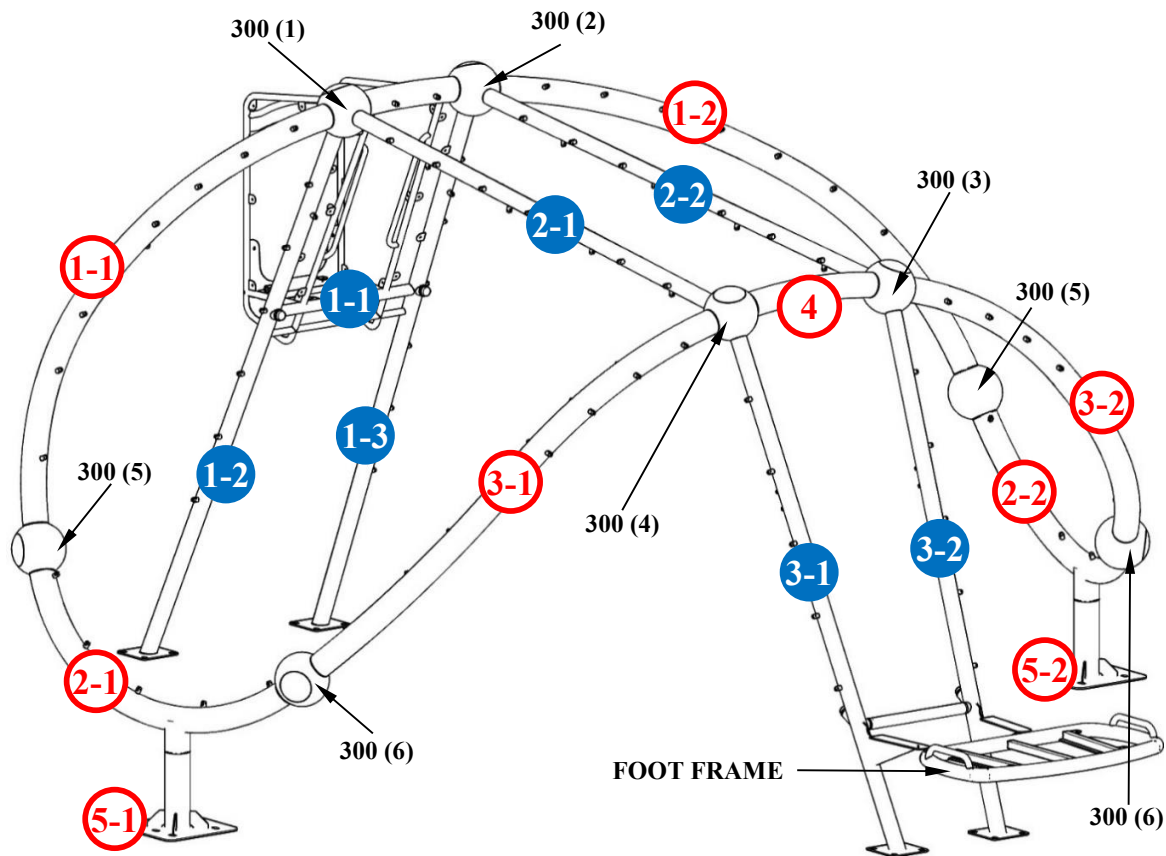


FOOTER C DETAIL



FOOTER D DETAIL

PART IDENTIFICATION MAIN FRAME



1 125A PIPE

1 80A PIPE

125A Post List

(1) : 2 EA
(2) : 2 EA
(3) : 2 EA
(4) : 1 EA
(5) : 2 EA

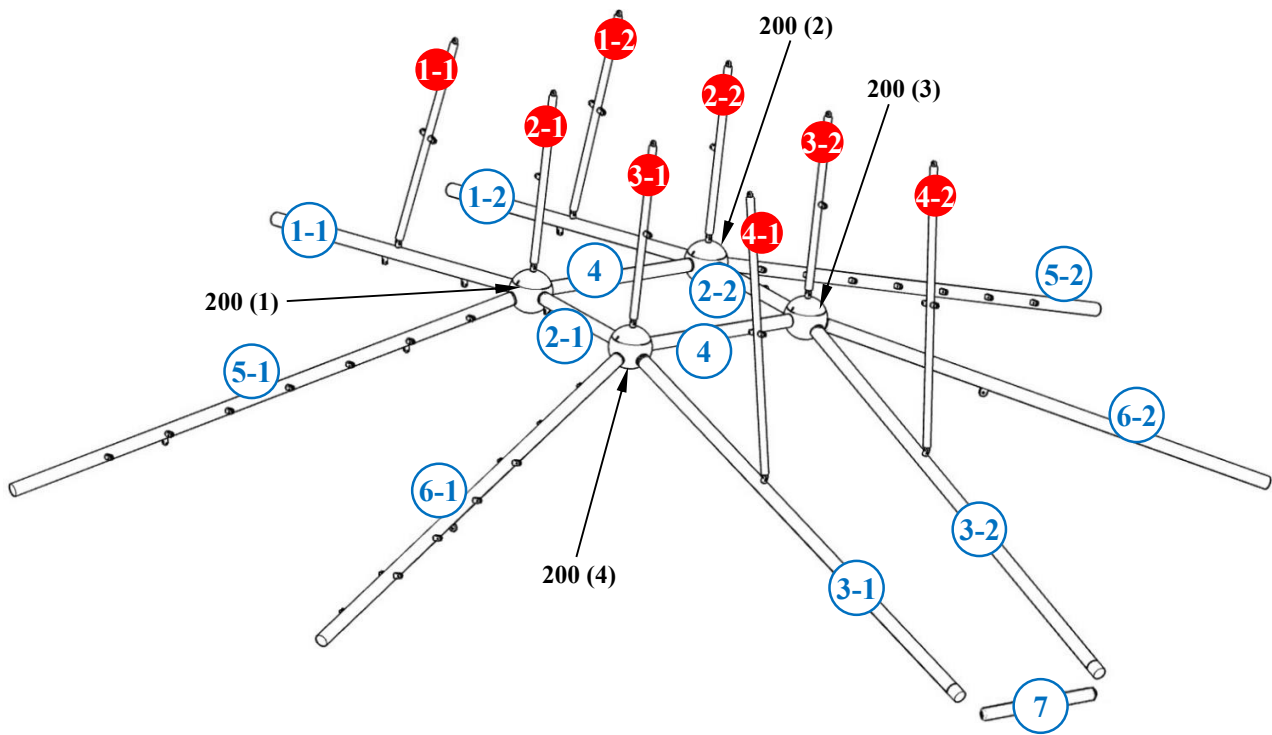
80A Post List

(1) : 3 EA
(2) : 2 EA
(3) : 2 EA

Pipe Connector-300 List

(1) : 1 EA
(2) : 1 EA
(3) : 1 EA
(4) : 1 EA
(5) : 2 EA
(6) : 2 EA

PART IDENTIFICATION
INNER FRAME



① 50A PIPE

① 25A PIPE

50A Pipe List

- (1) : 2 EA
- (2) : 2 EA
- (3) : 2 EA
- (4) : 2 EA
- (5) : 2 EA
- (6) : 2 EA
- (7) : 1 EA

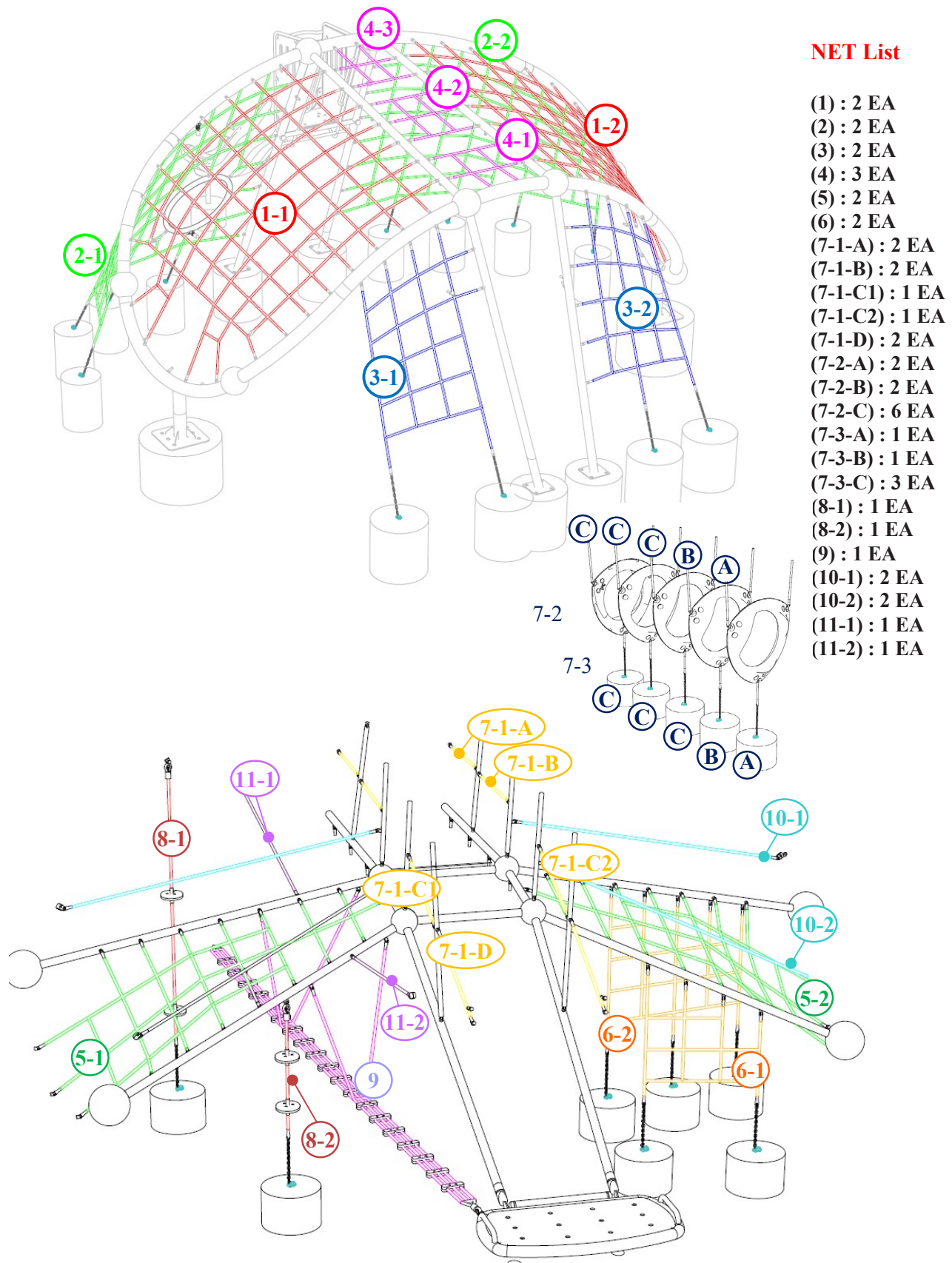
25A Post List

- (1) : 2 EA
- (2) : 2 EA
- (3) : 2 EA
- (4) : 2 EA

Pipe Connector-200 List

- (1) : 1 EA
- (2) : 1 EA
- (3) : 1 EA
- (4) : 1 EA

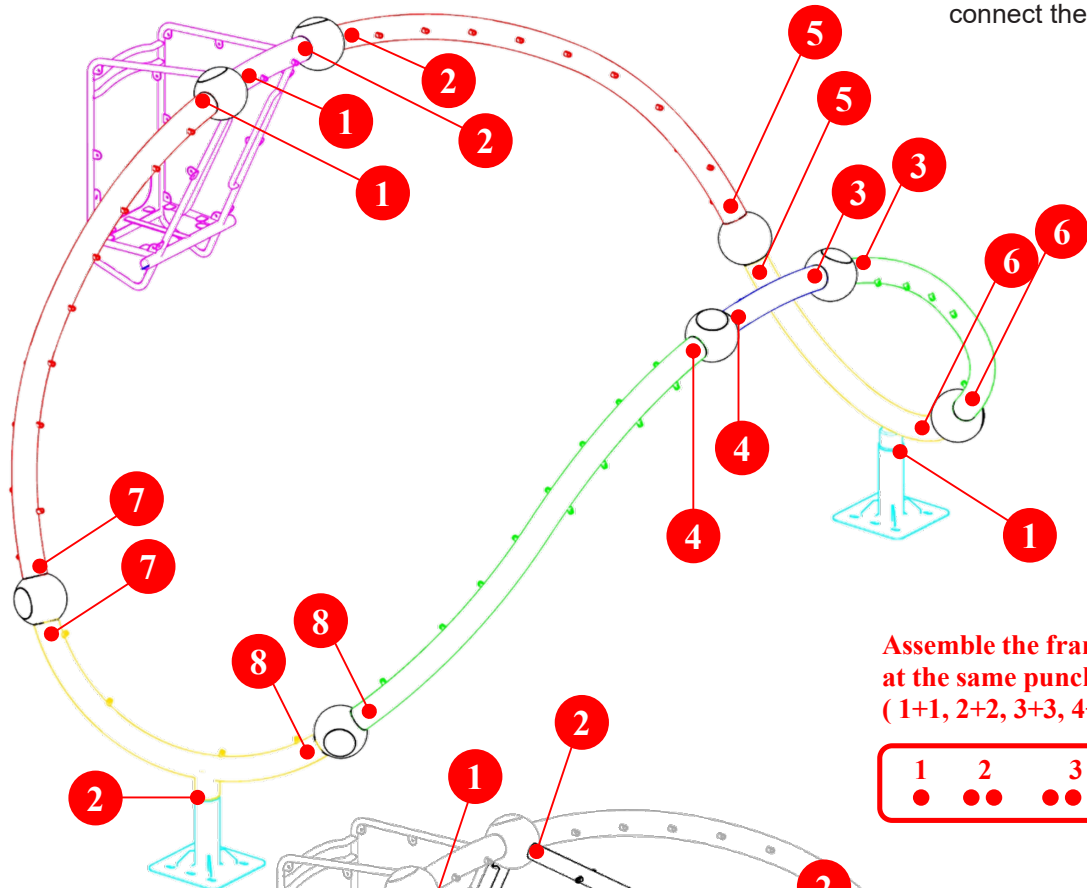
PART IDENTIFICATION NETS



PART IDENTIFICATION

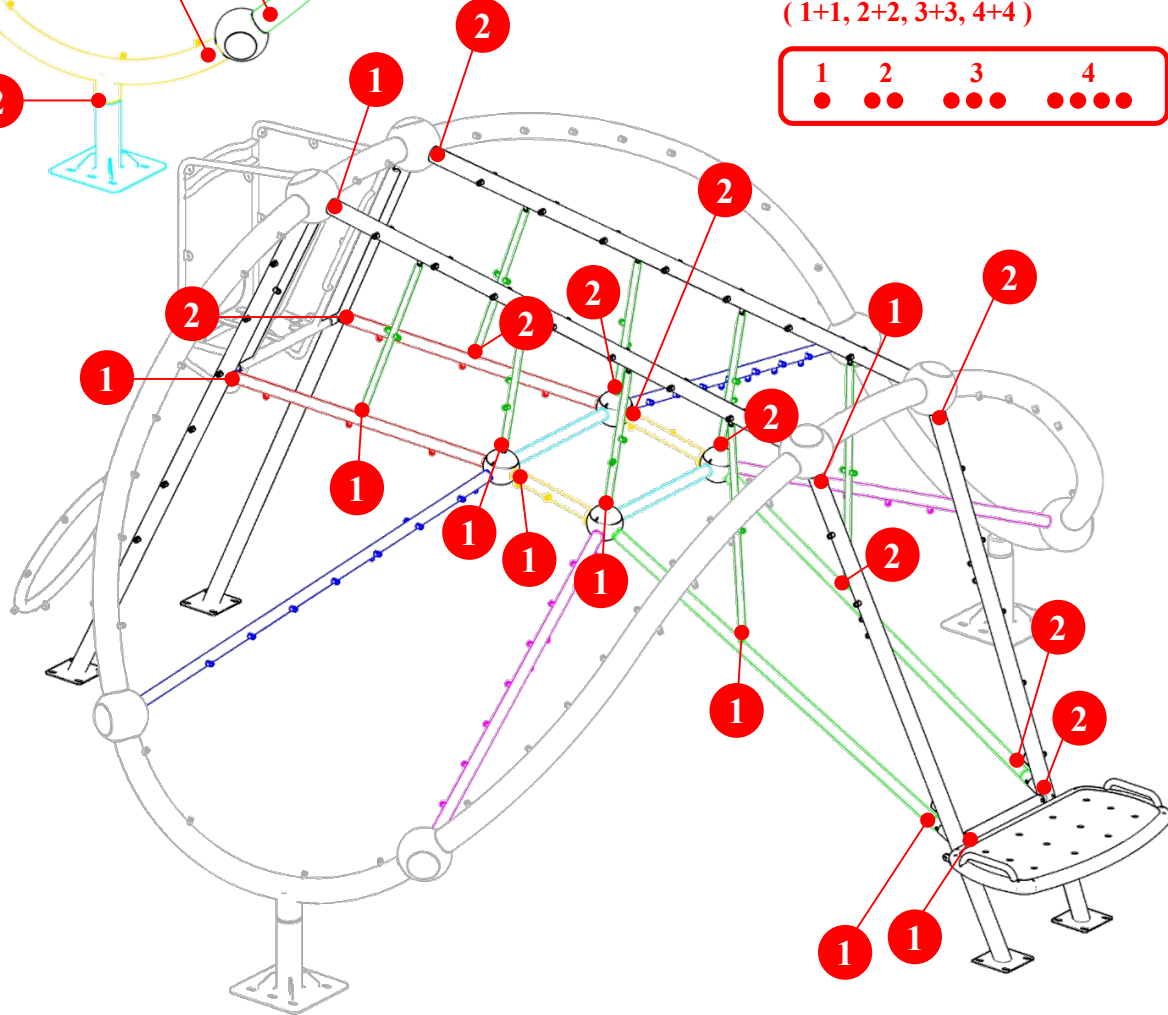
FRAME ALIGNMENT PUNCH MARKS

These markings indicate where to connect the pipes to the connector balls.

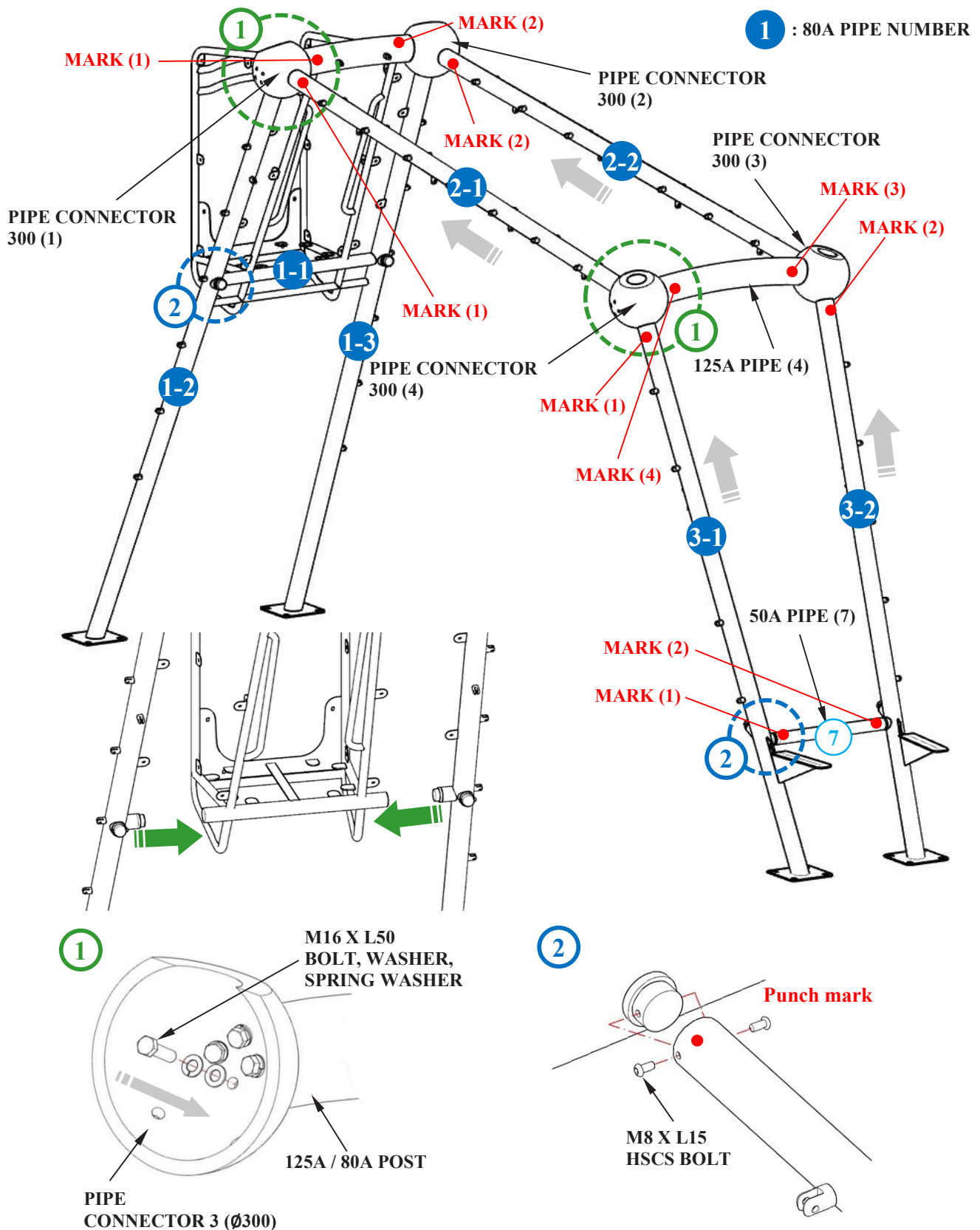


Assemble the frame & post
at the same punch mark (label)
(1+1, 2+2, 3+3, 4+4)

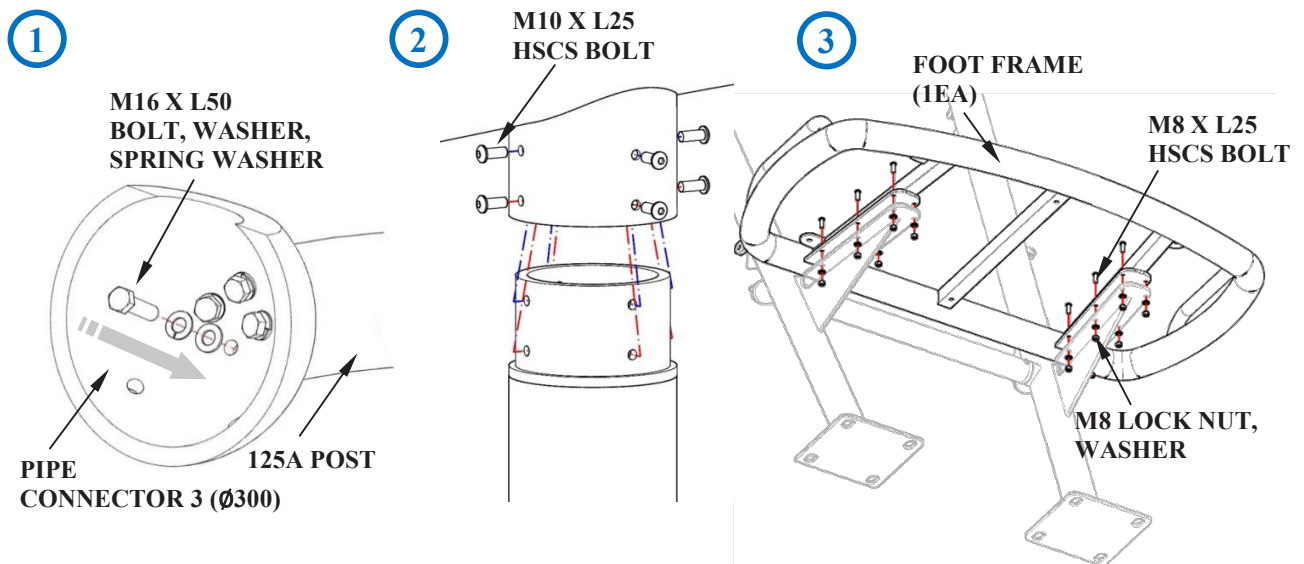
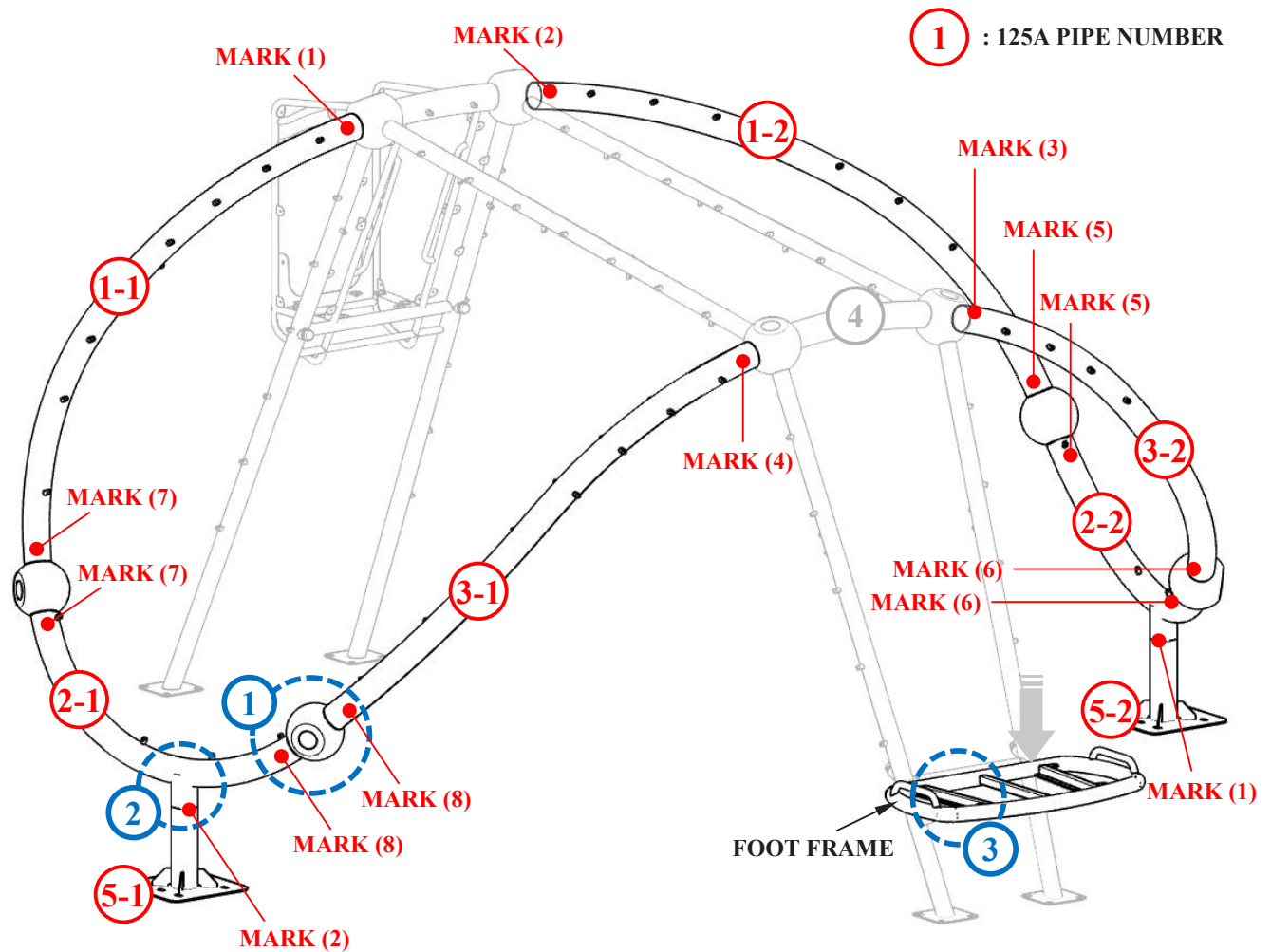
1	2	3	4
●	●●	●●●	●●●●



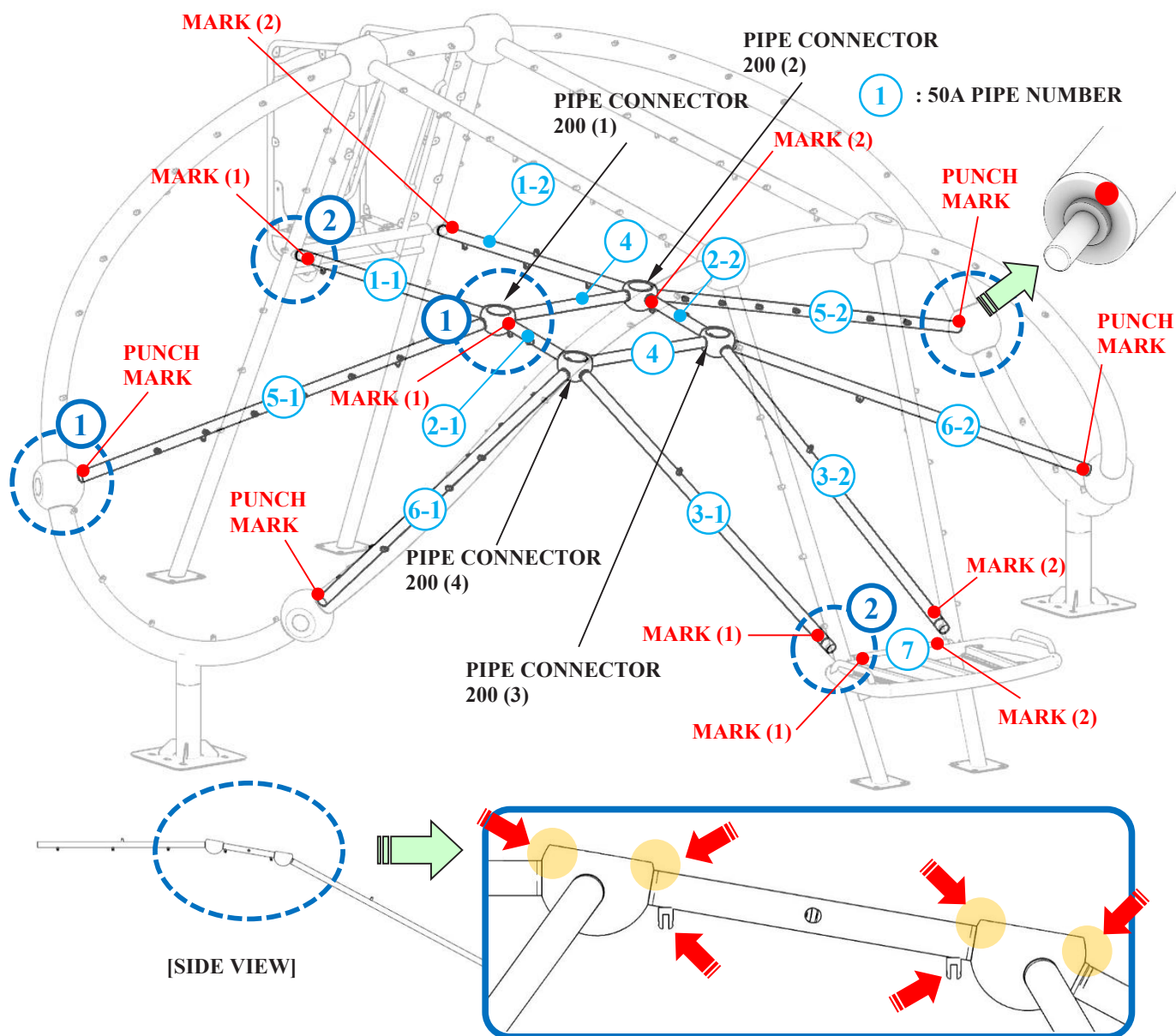
Note: Threadlocker(supplied by others)must be used on all threaded hardware



Note: Threadlocker(supplied by others)must be used on all threaded hardware

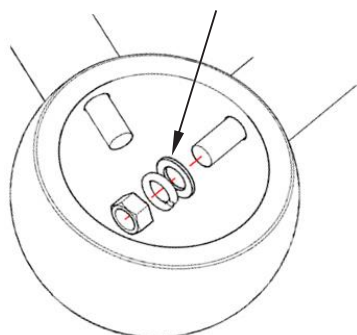


Note: Threadlocker(supplied by others)must be used on all threaded hardware

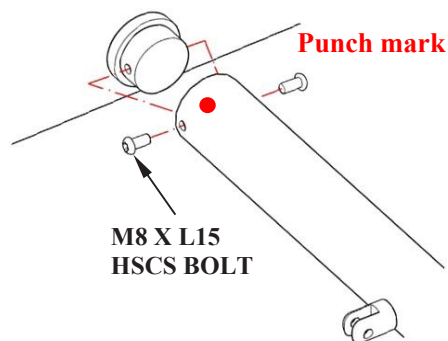


①

M18 NUT,WASHER

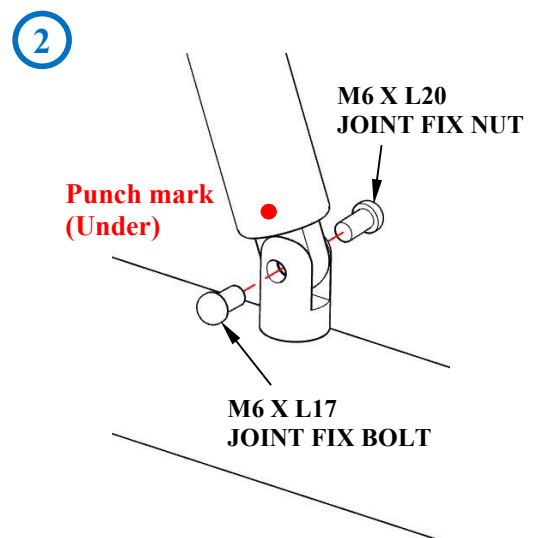
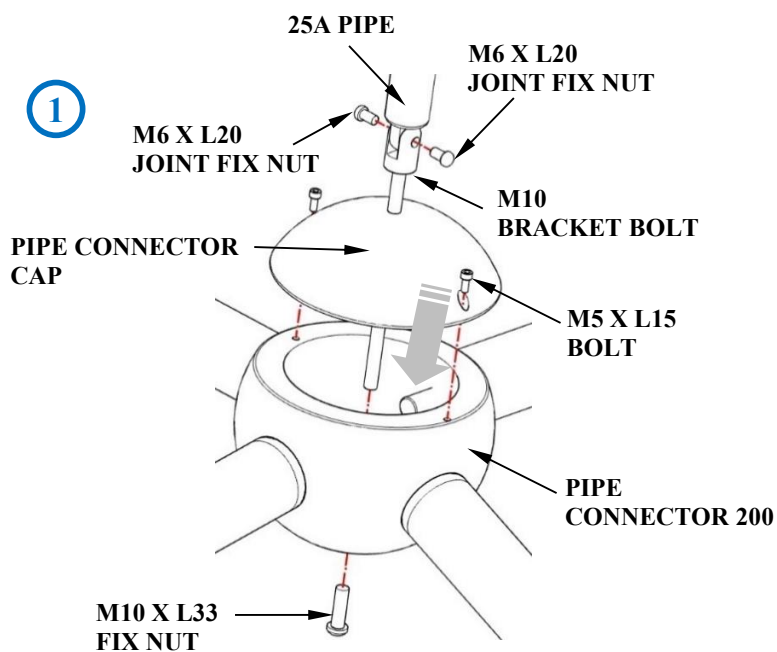
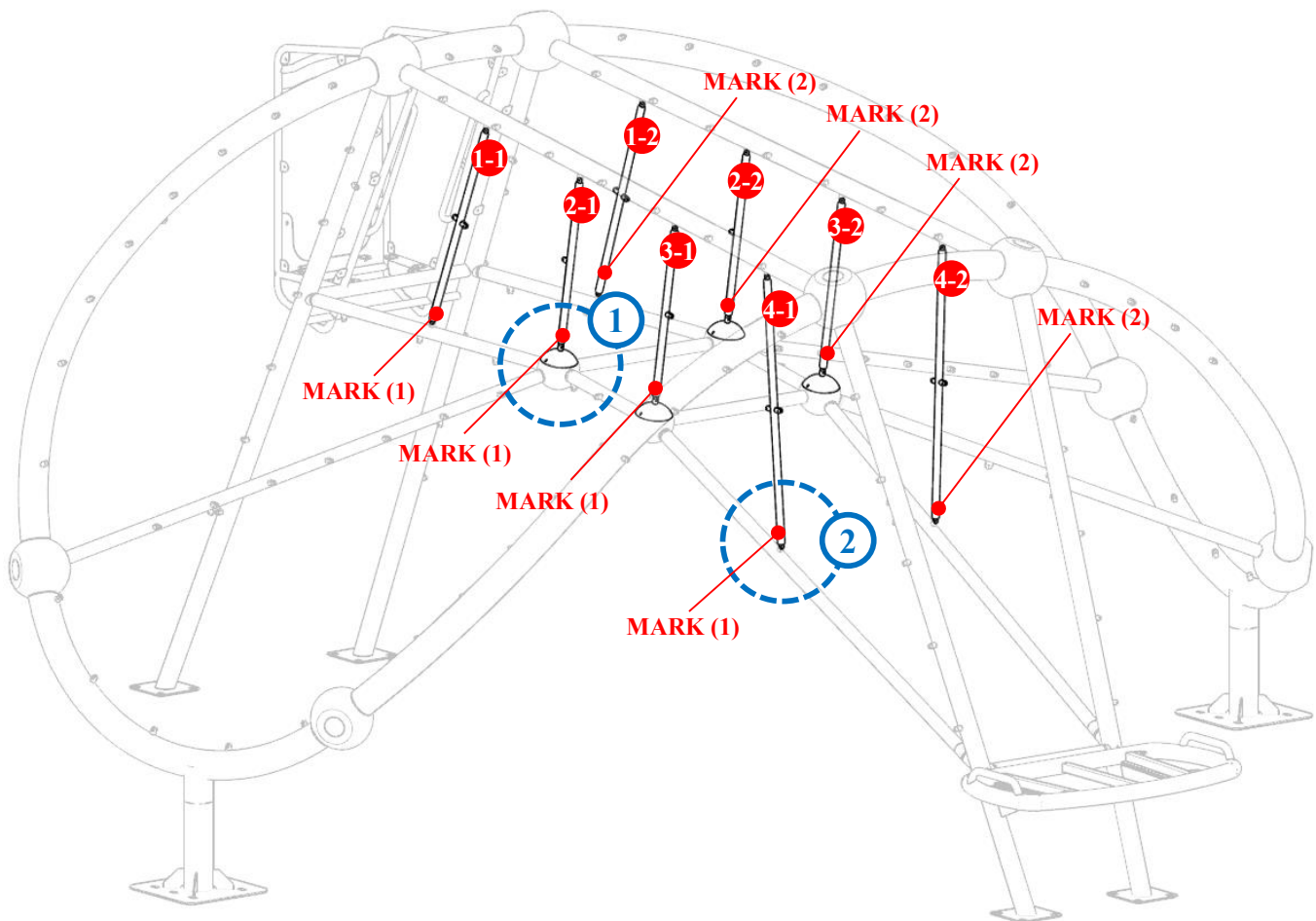


②



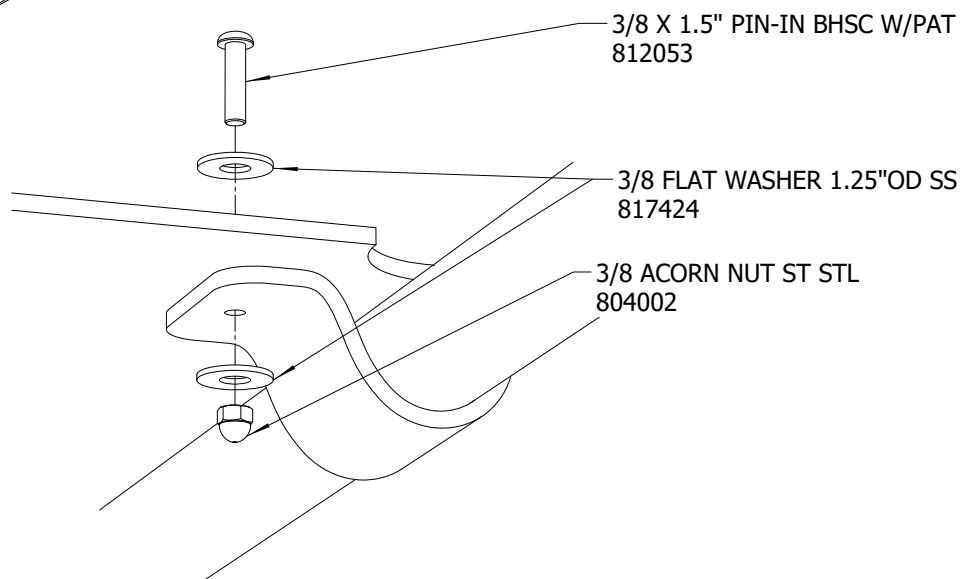
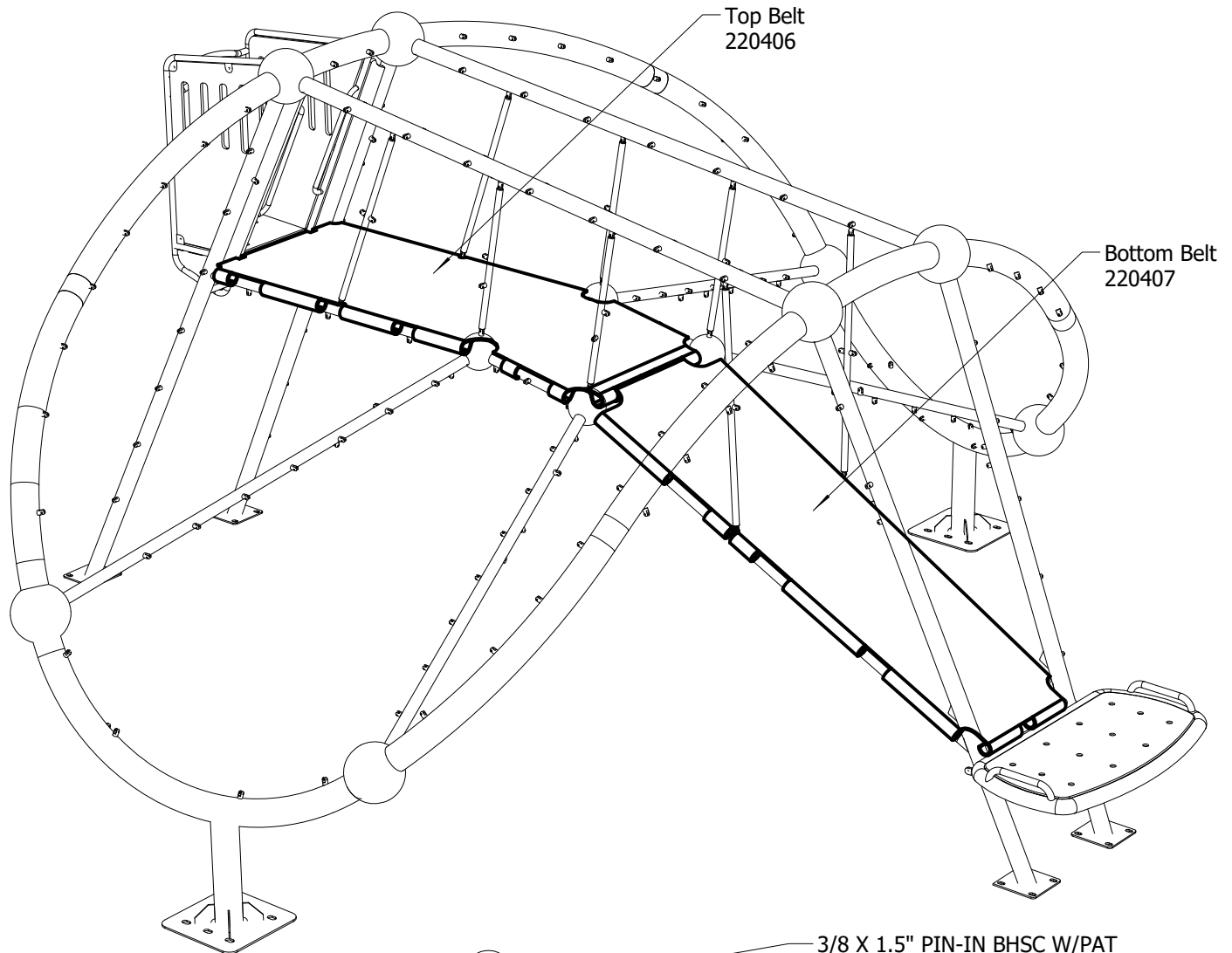
Note: Threadlocker(supplied by others)must be used on all threaded hardware

1 : 25A PIPE NUMBER



RUBBER MAT INSTALLATION

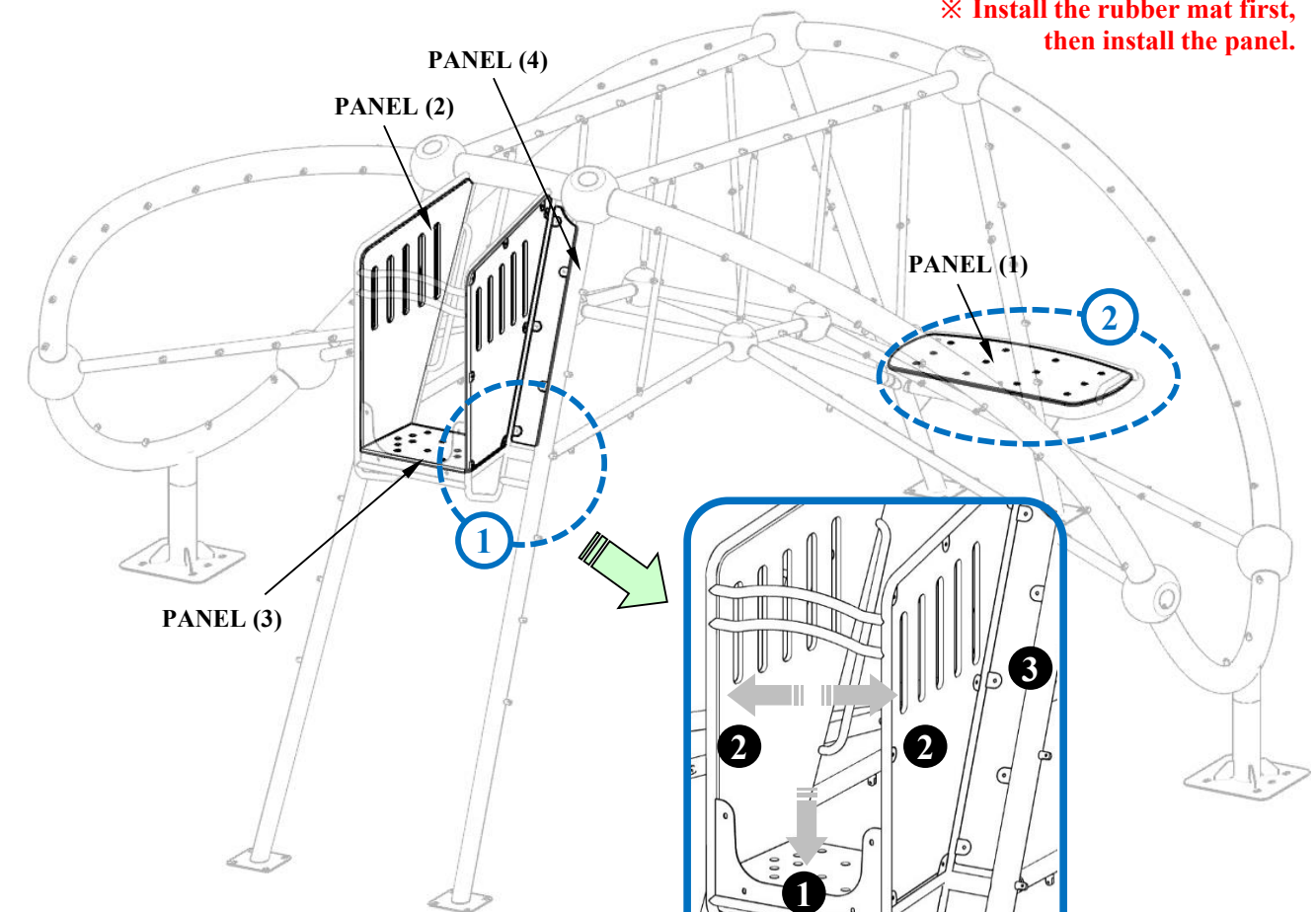
Note: Threadlocker(supplied by others)must be used on all threaded hardware



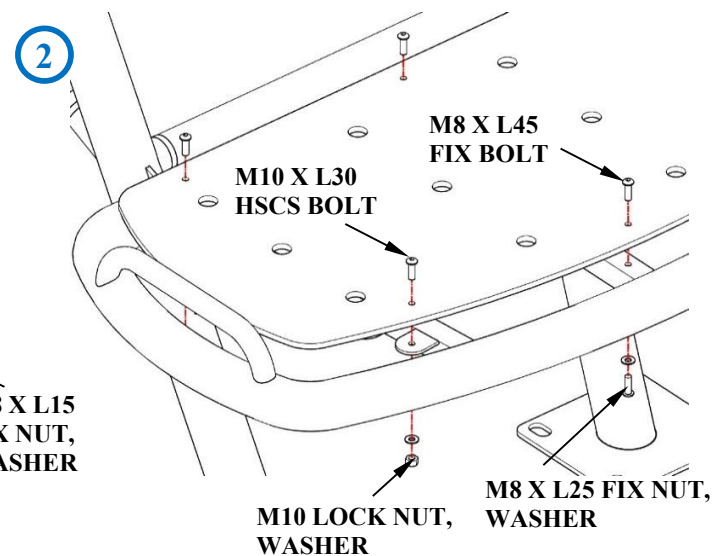
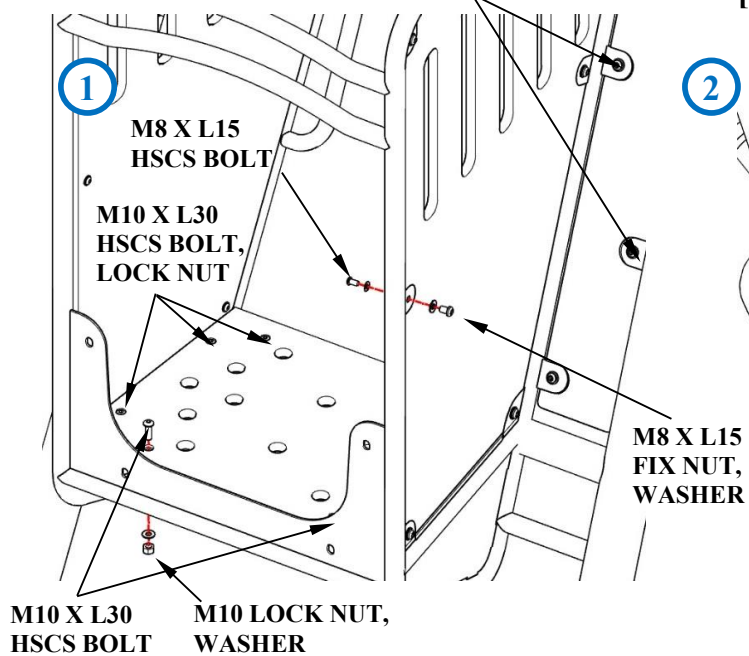
Rubber Mat Bolting Detail (TYPICAL)

Note: Threadlocker(supplied by others)must be used on all threaded hardware

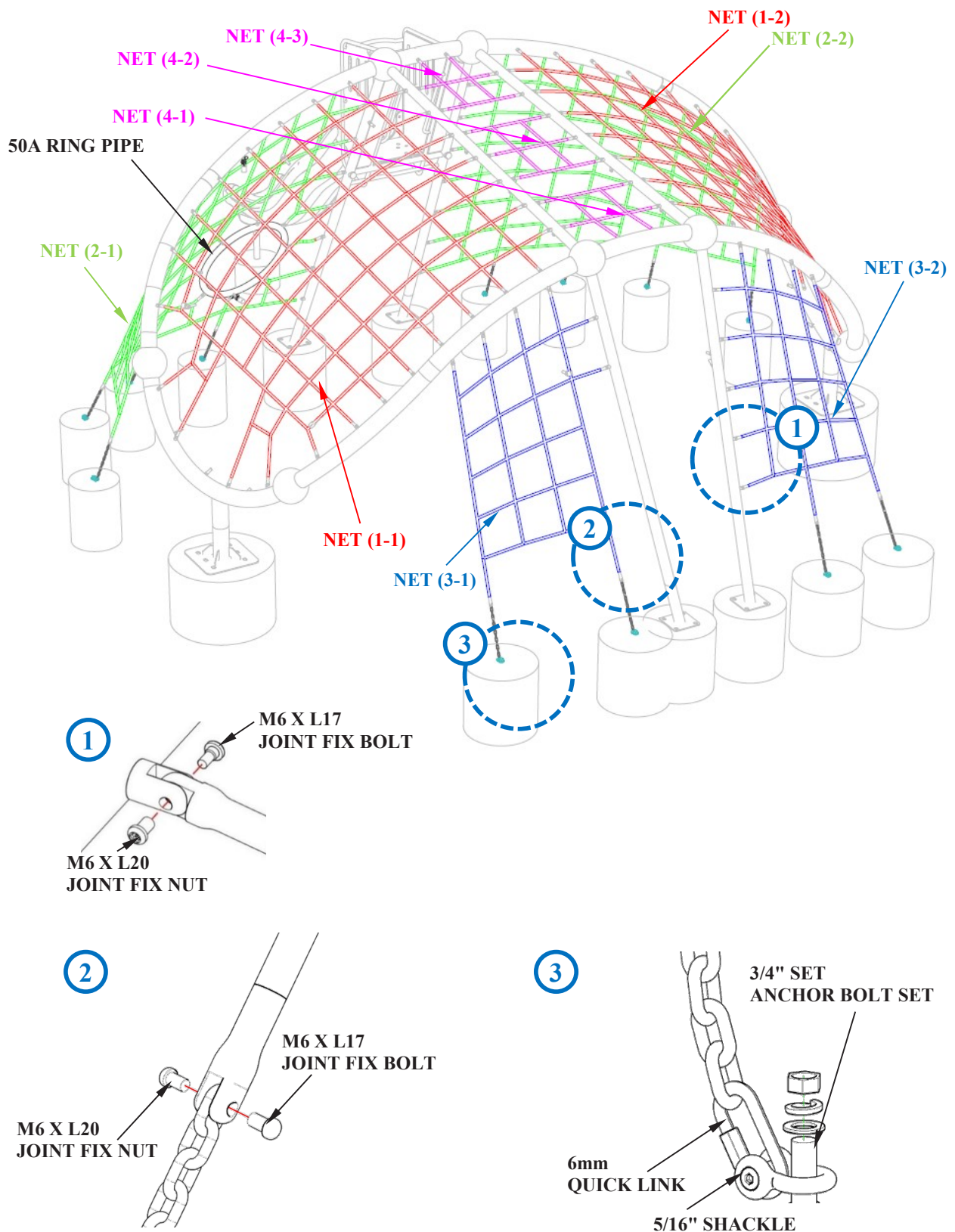
※ Install the rubber mat first,
then install the panel.



M8 X L15
HSCS BOLT, FIX NUT



Note: Threadlocker(supplied by others)must be used on all threaded hardware



Note: Threadlocker(supplied by others)must be used on all threaded hardware

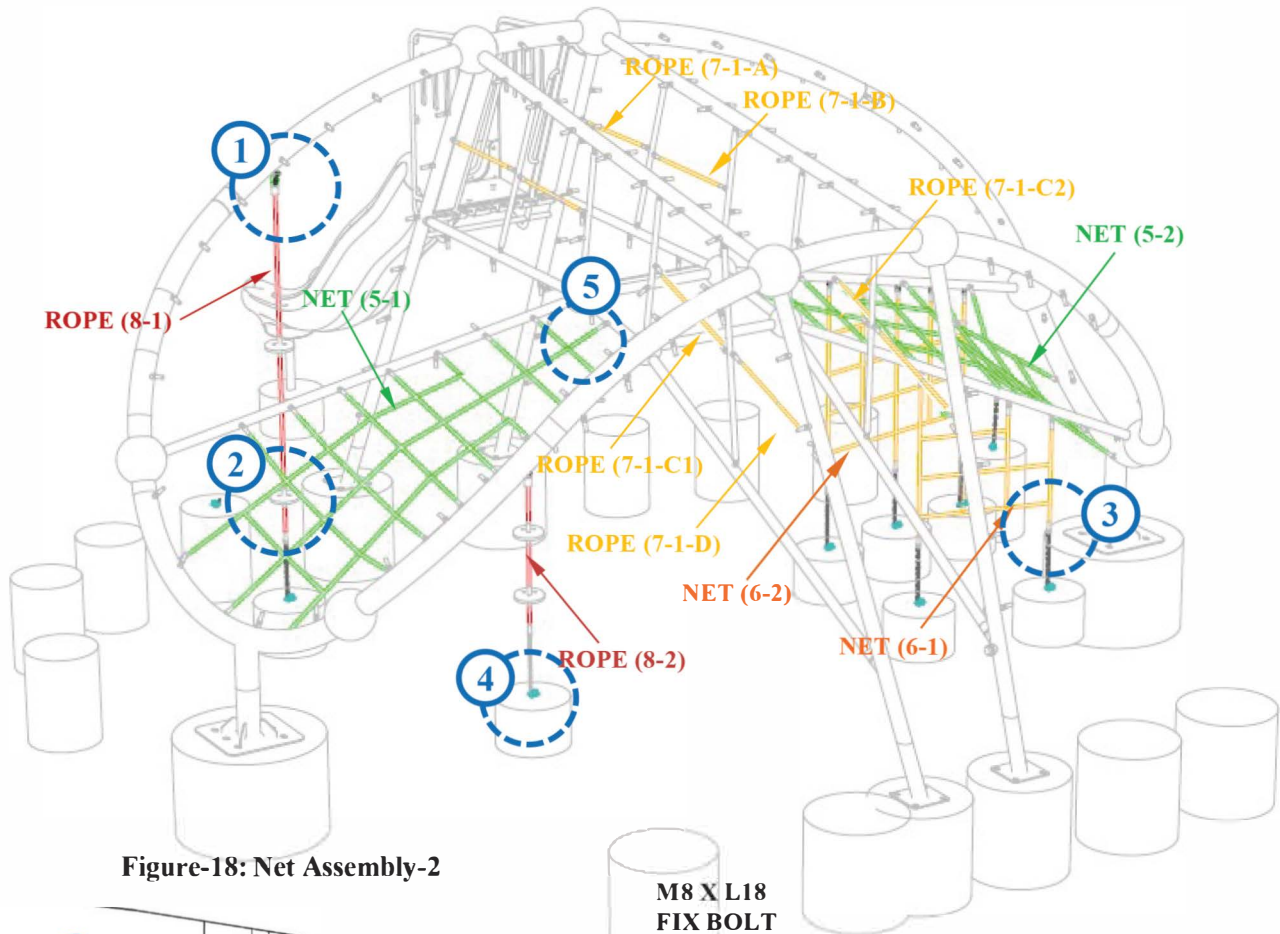
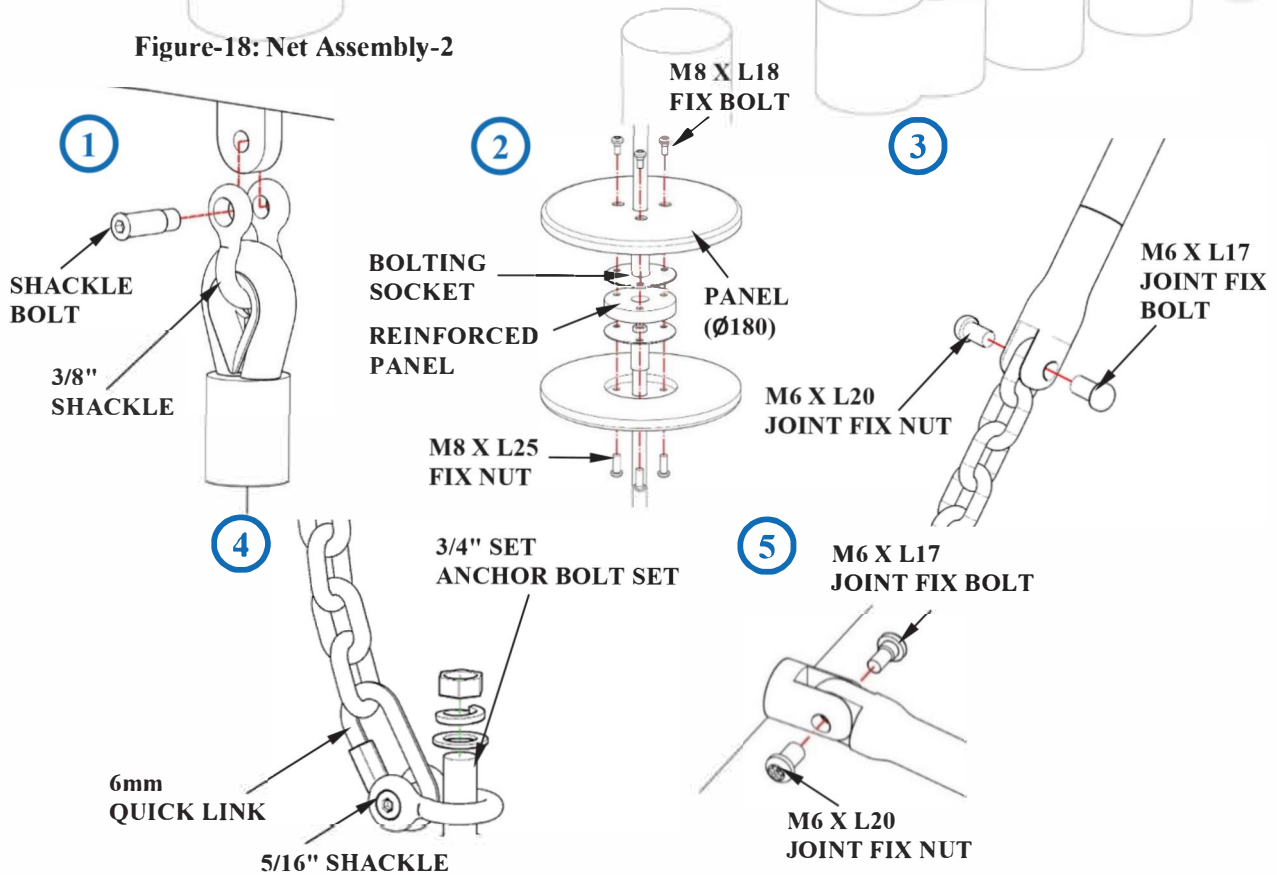
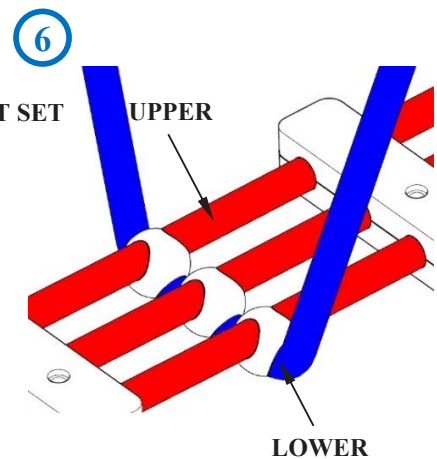
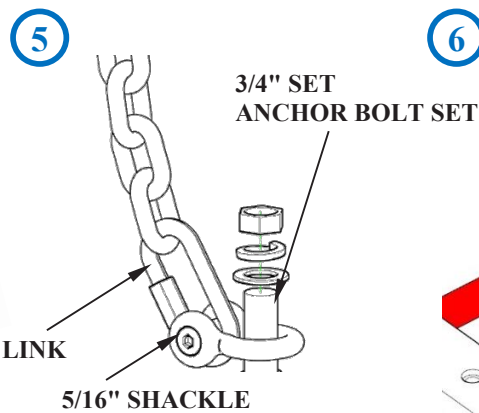
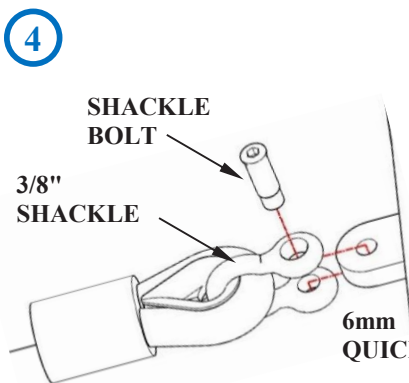
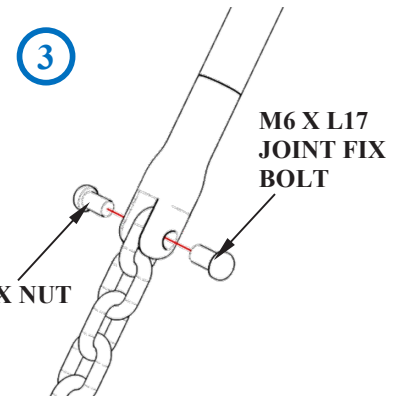
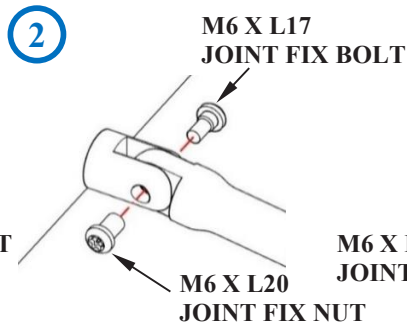
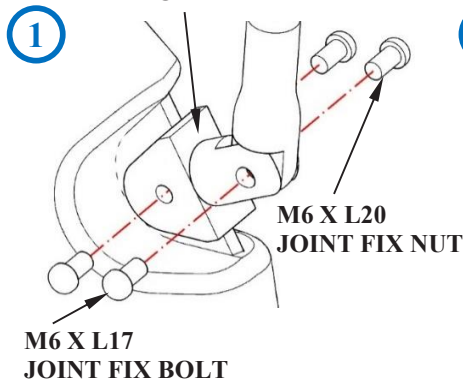
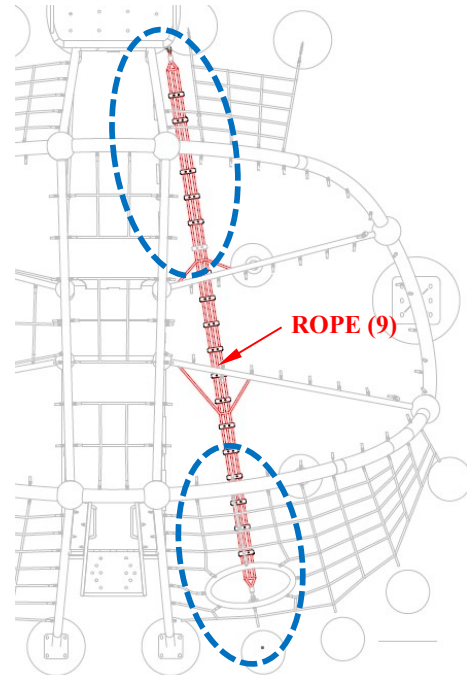
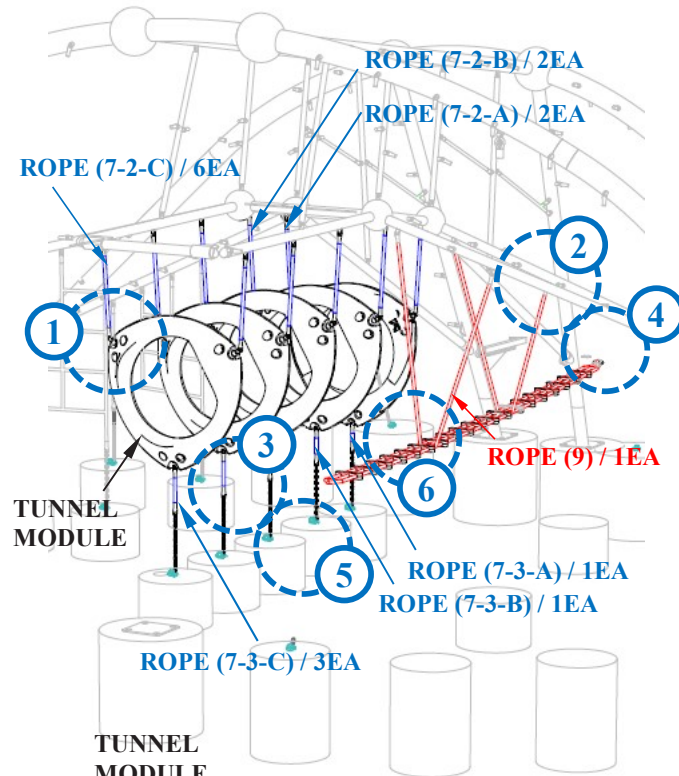


Figure-18: Net Assembly-2

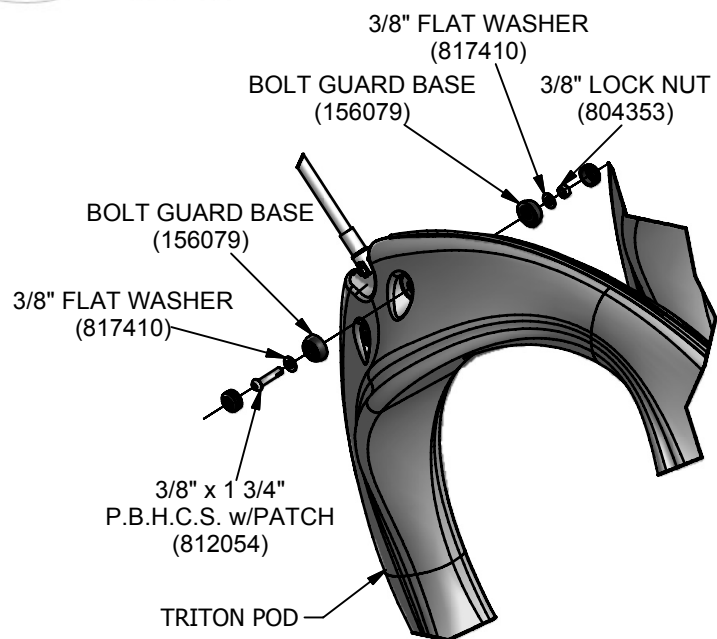
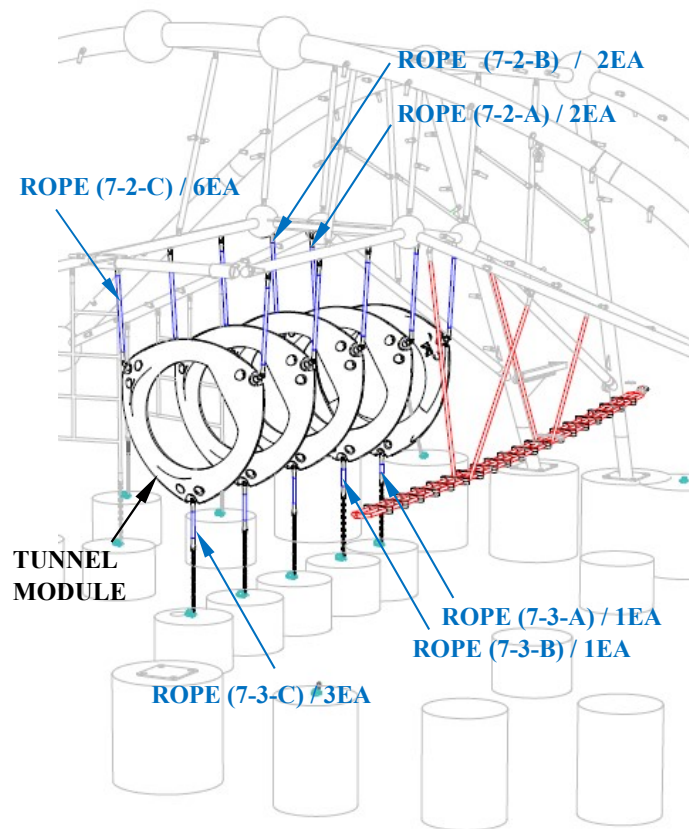


Note: Threadlocker(supplied by others)must be used on all threaded hardware

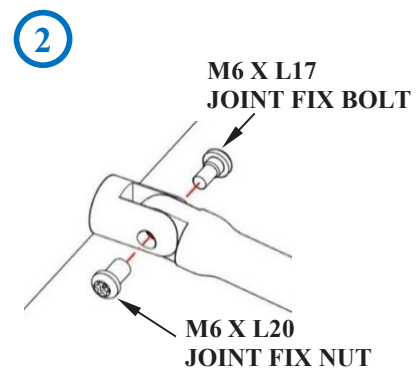
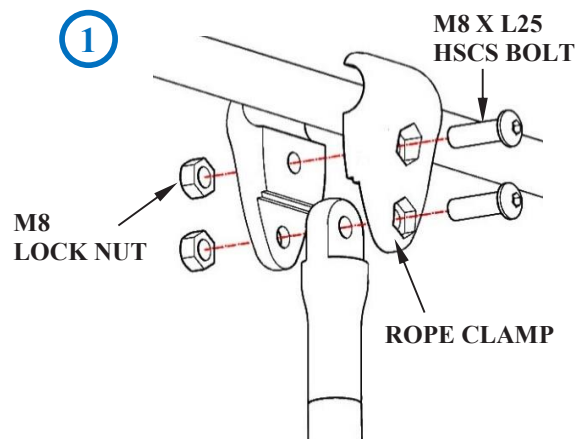
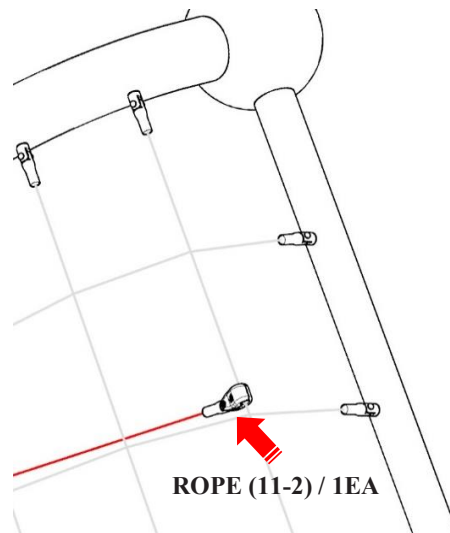
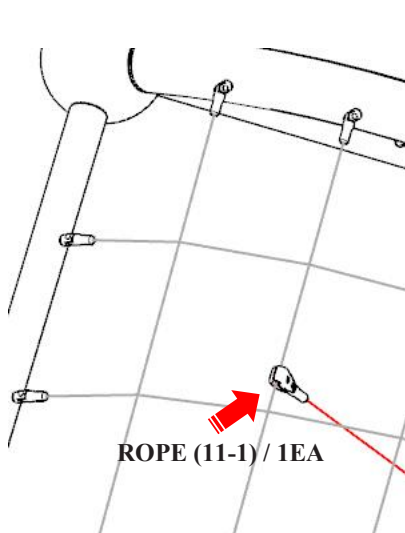
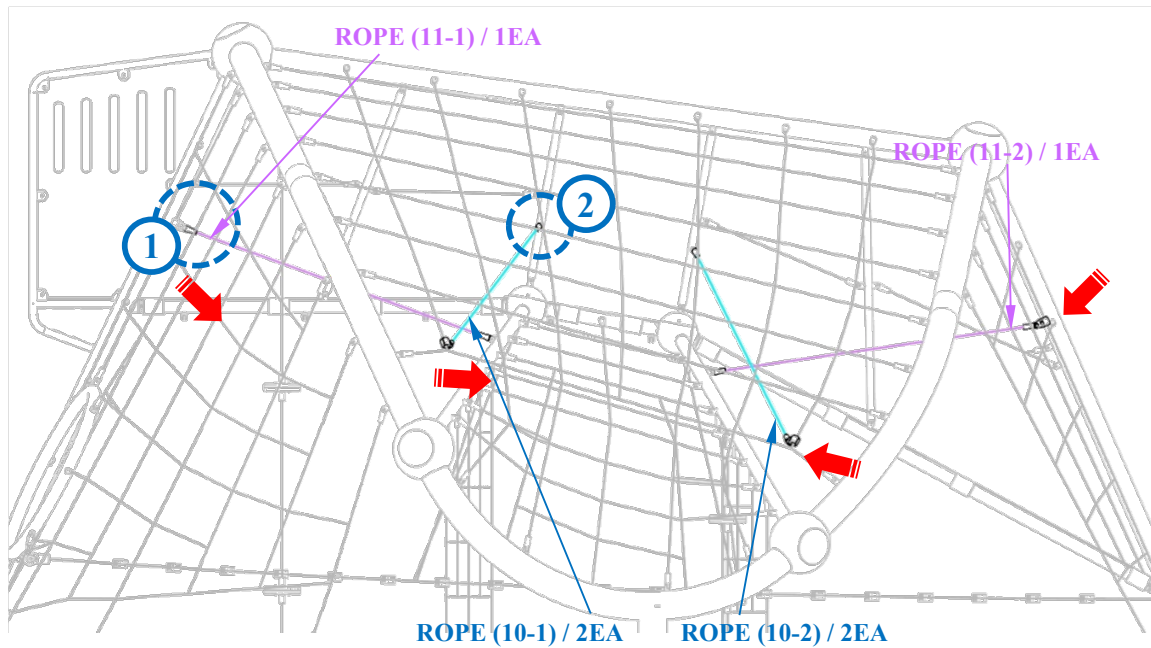


TUNNEL MODULE ASSEMBLY DETAIL

Note: Threadlocker(supplied by others)must be used on all threaded hardware

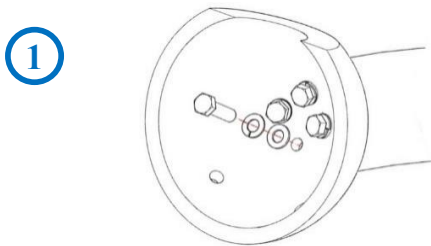
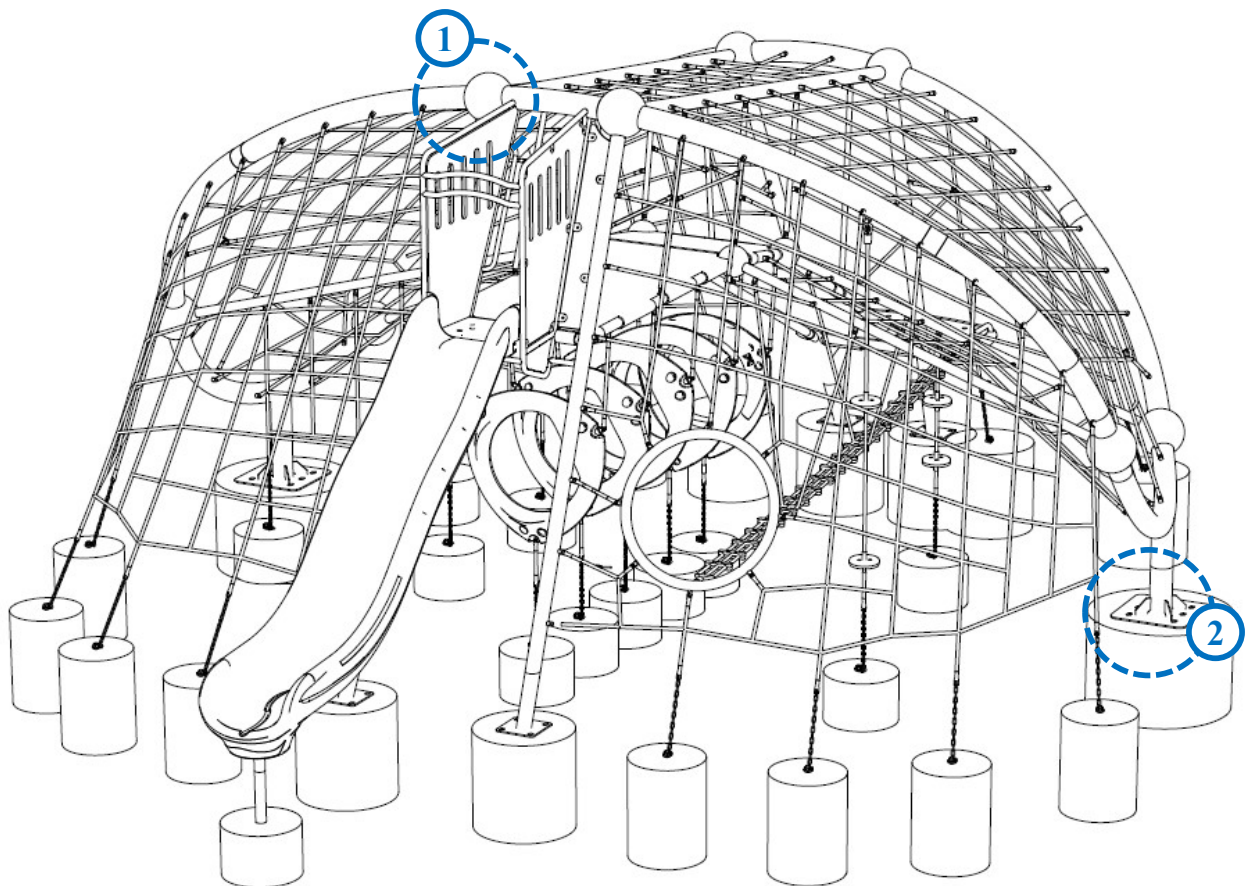


Note: Threadlocker(supplied by others)must be used on all threaded hardware

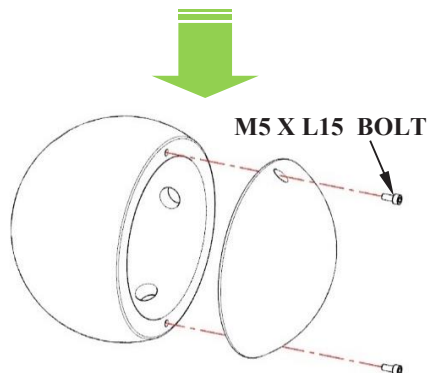


PIPE CONNECTOR CAPS AND BASE PLATES

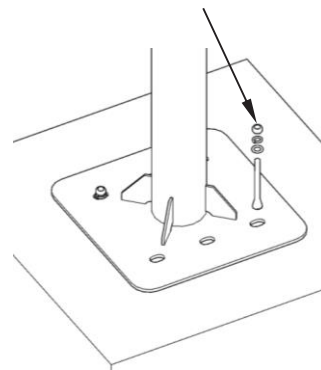
Note: Threadlocker(supplied by others)must be used on all threaded hardware



Tighten all nuts and bolts fully

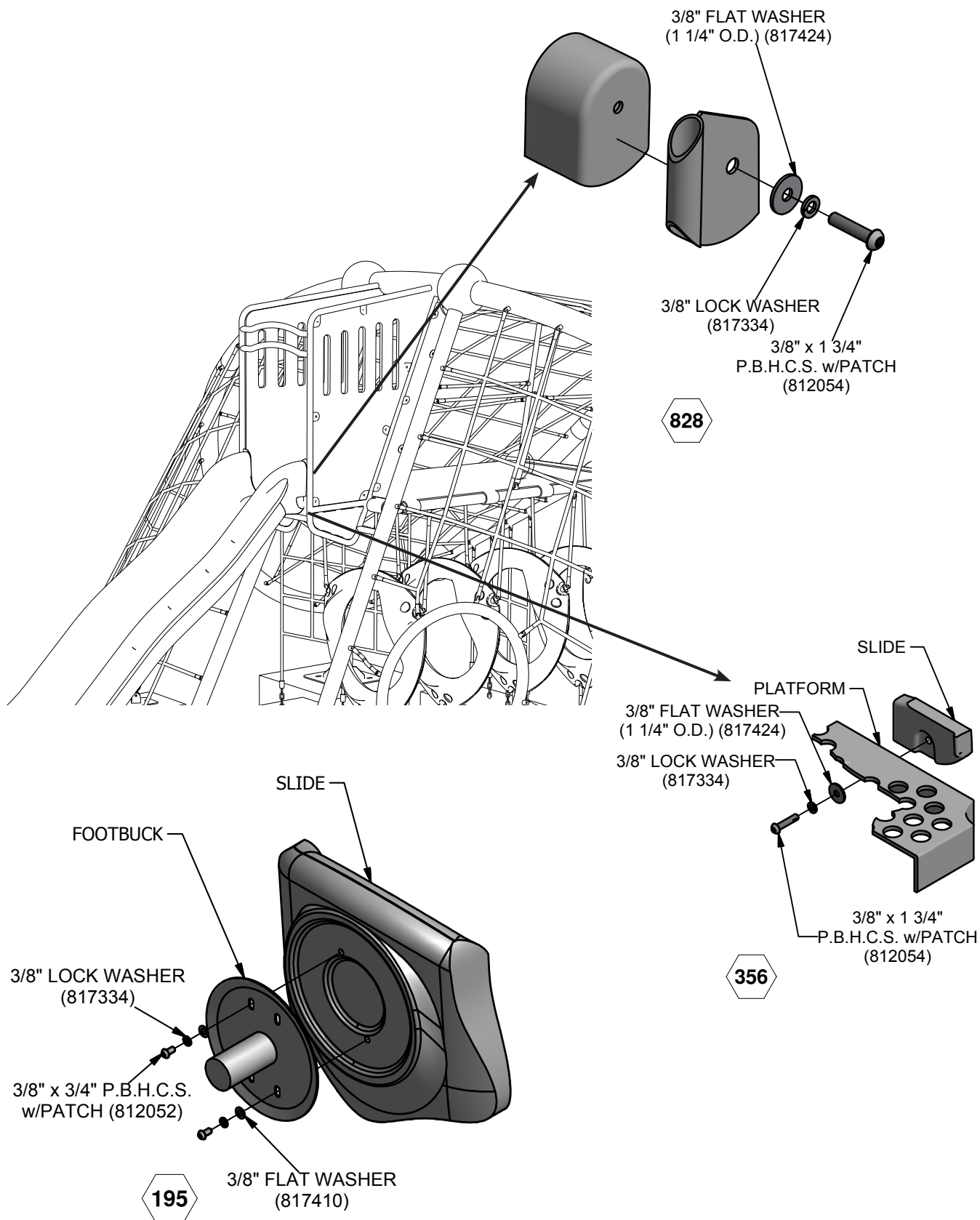


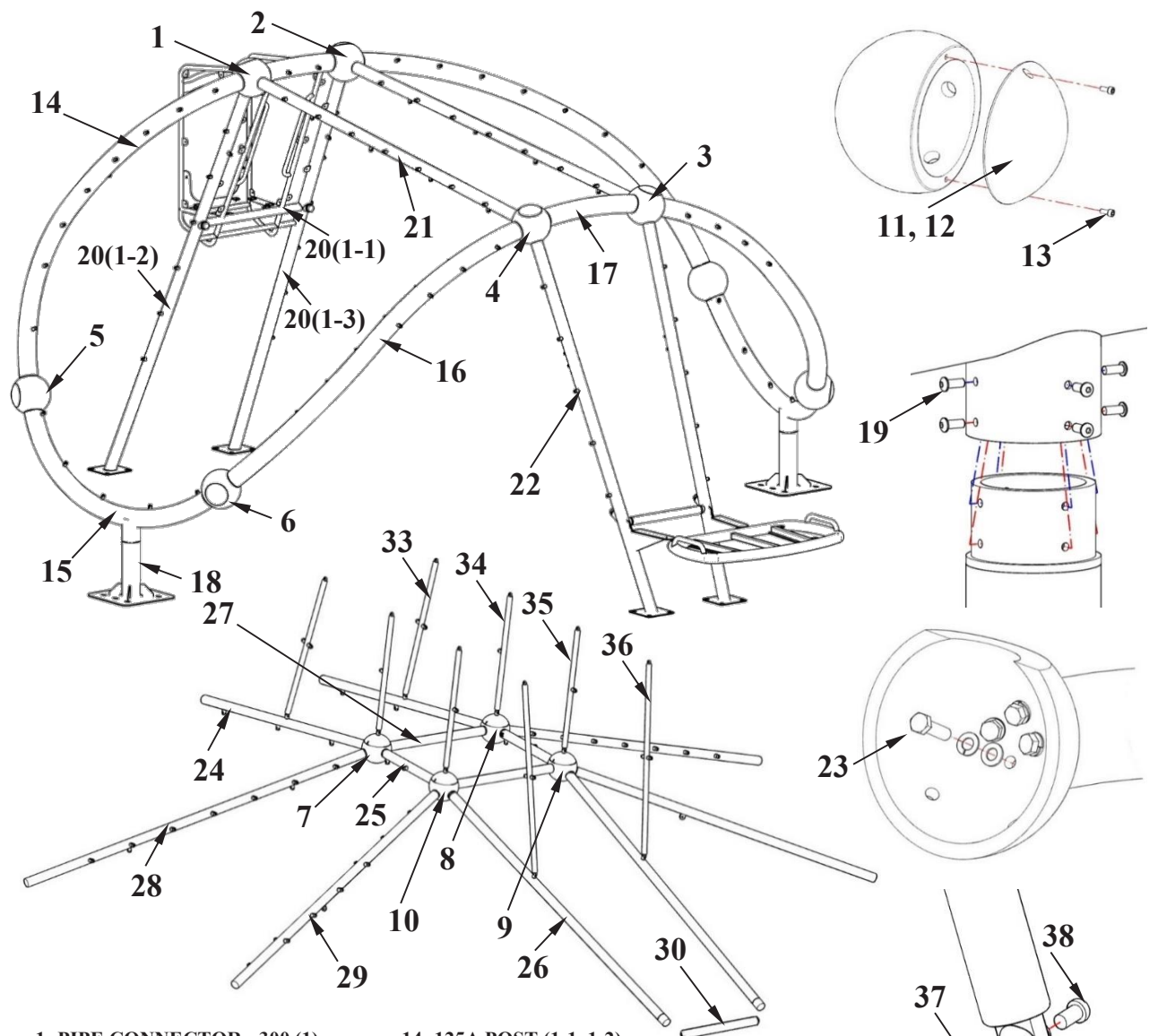
2 3/4"(M20) X L150
SET ANCHOR BOLT



SLIDE INSTALLATION DETAILS TYPICAL

Note: Threadlocker(supplied by others)must be used on all threaded hardware





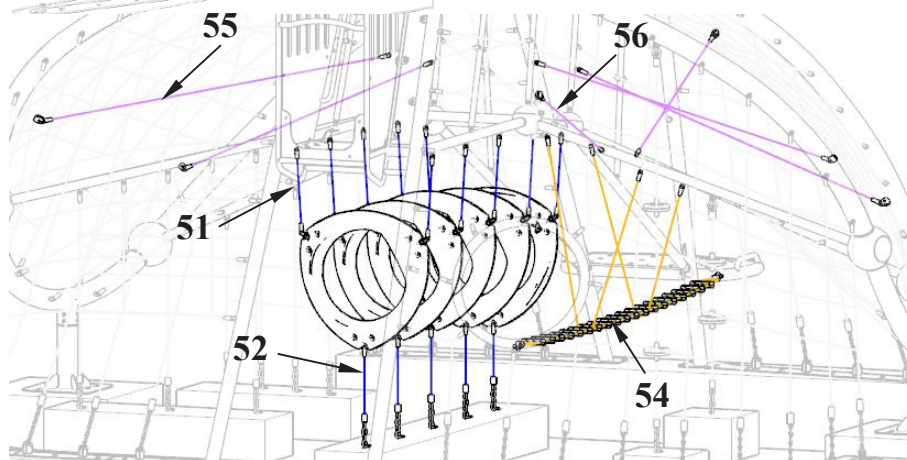
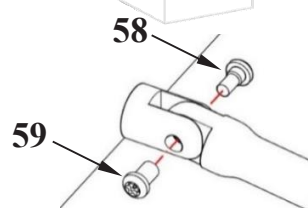
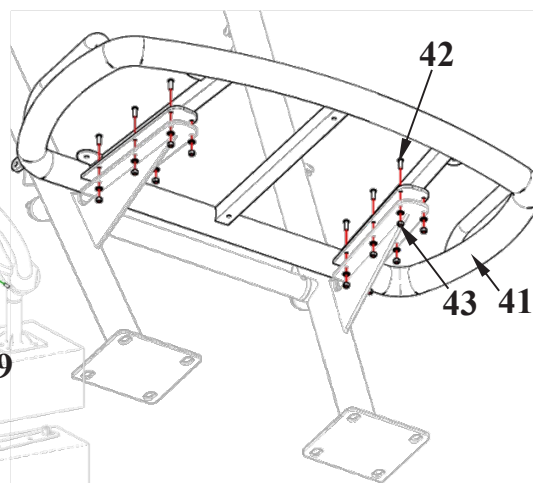
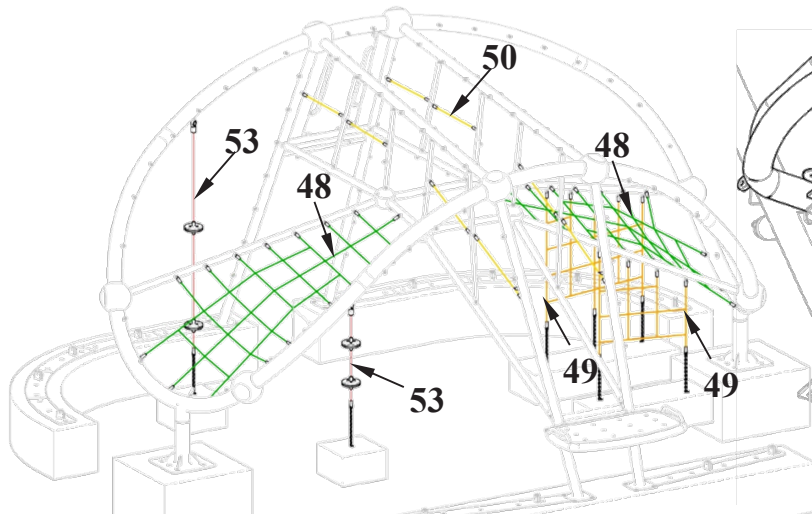
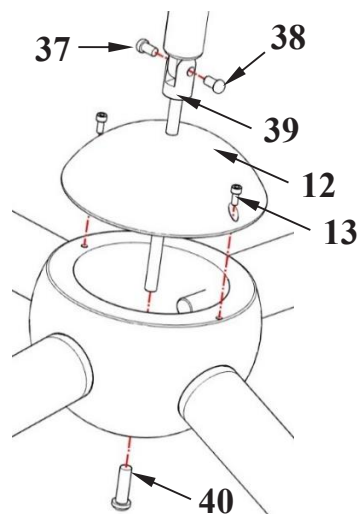
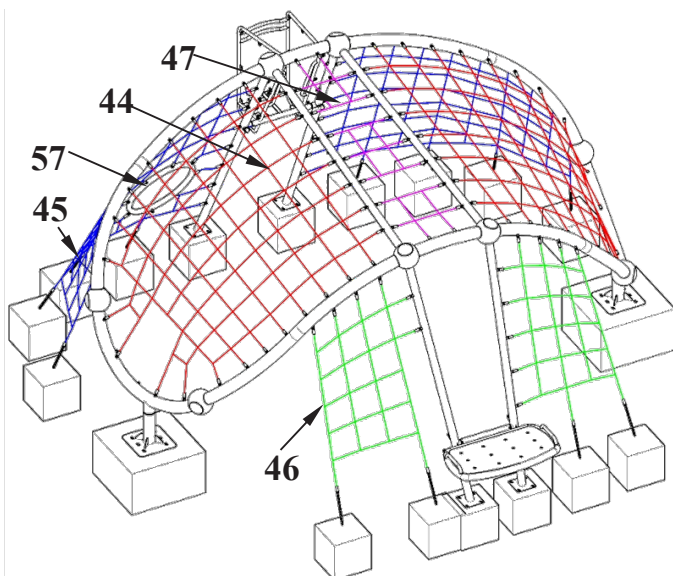
1: PIPE CONNECTOR - 300 (1)
2: PIPE CONNECTOR - 300 (2)
3: PIPE CONNECTOR - 300 (3)
4: PIPE CONNECTOR - 300 (4)
5: PIPE CONNECTOR - 300 (5)
6: PIPE CONNECTOR - 300 (6)
7: PIPE CONNECTOR - 200 (1)
8: PIPE CONNECTOR - 200 (2)
9: PIPE CONNECTOR - 200 (3)
10: PIPE CONNECTOR - 200 (4)
11: PIPE CONNECTOR CAP-300
12: PIPE CONNECTOR CAP-200
13: M5 X L15 BOLT

14: 125A POST (1-1, 1-2)
15: 125A POST (2-1, 2-2)
16: 125A POST (3-1, 3-2)
17: 125A POST (4)
18: 125A POST (5-1, 5-2)
19: M10 X L25 HSCS BOLT

20: 80A POST (1-1, 1-2, 1-3)
21: 80A POST (2-1, 2-2)
22: 80A POST (3-1, 3-2)
23: M16 X L50 BOLT,
SPRING WASHER, WASHER

24: 50A PIPE (1-1, 1-2)
25: 50A PIPE (2-1, 2-2)
26: 50A PIPE (3-1, 3-2)
27: 50A PIPE (4)
28: 50A PIPE (5-1, 5-2)
29: 50A PIPE (6-1, 6-2)
30: 50A PIPE (7)
31: M18 NUT,
SPRING WASHER, WASHER

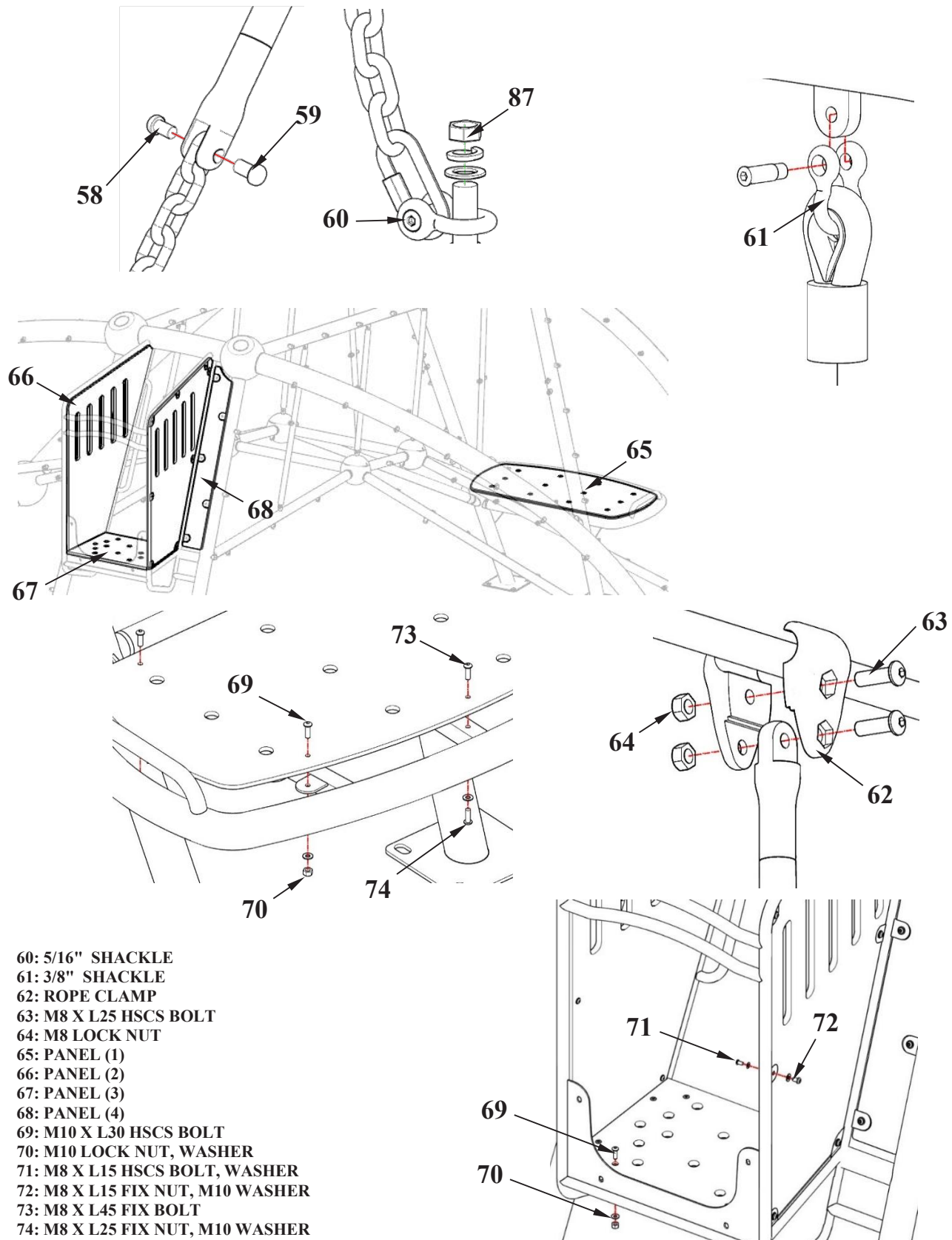
32: M8 X L15 HSCS BOLT
33: 25A PIPE (1-1, 1-2)
34: 25A PIPE (2-1, 2-2)
35: 25A PIPE (3-1, 3-2)
36: 25A PIPE (4-1, 4-2)
37: M6 X L17 JOIN FIX BOLT
38: M6 X L20 JOIN FIX NUT



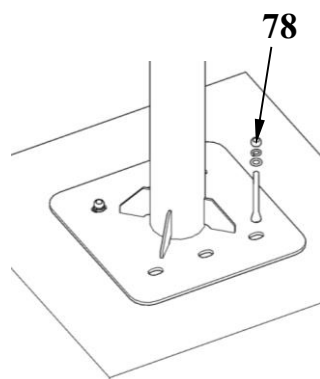
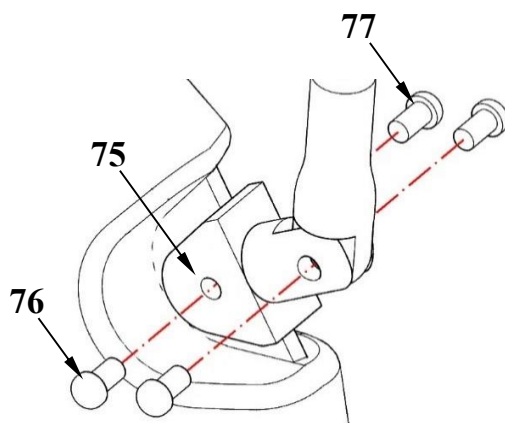
- 39: M10 X L190 BRACKET BOLT
- 40: M10 X L33 FIX NUT
- 41: FOOT FRAME
- 42: M8 X L25 HSCS BOLT
- 43: M8 LOCK NUT, WASHER
- 44: NET (1-1, 1-2)
- 45: NET (2-1, 2-2)
- 46: NET (3-1, 3-2)
- 47: NET (4-1, 4-2, 4-3)
- 48: NET (5-1, 5-2)
- 49: NET (6-1, 6-2)
- 50: ROPE (7-1 A,B,C,D)
- 51: ROPE (7-2 A,B,C)

- 52: ROPE (7-3 A,B,C)
- 53: ROPE (8-1, 8-2)
- 54: ROPE (9)
- 55: ROPE (10-1, 10-2)
- 56: ROPE (11-1, 11-2)
- 57: 50A RING PIPE

- 58: M6 X L17 JOIN FIX BOLT
- 59: M6 X L20 JOIN FIX NUT



- 60: 5/16" SHACKLE
- 61: 3/8" SHACKLE
- 62: ROPE CLAMP
- 63: M8 X L25 HSCS BOLT
- 64: M8 LOCK NUT
- 65: PANEL (1)
- 66: PANEL (2)
- 67: PANEL (3)
- 68: PANEL (4)
- 69: M10 X L30 HSCS BOLT
- 70: M10 LOCK NUT, WASHER
- 71: M8 X L15 HSCS BOLT, WASHER
- 72: M8 X L15 FIX NUT, M10 WASHER
- 73: M8 X L45 FIX BOLT
- 74: M8 X L25 FIX NUT, M10 WASHER



- 75: TUNNEL MODULE - BRACKET
- 76: M6 X L17 JOINT FIX BOLT
- 77: M6 X L20 JOINT FIX NUT
- 78: 3/4"(M20) X L150 SET ANCHOR BOLT,
NUT, WASHER

AFTER INSTALLATION BEFORE OPENING FOR PLAY, RECOMMENDATIONS

Inspect Equipment for Correct Installation

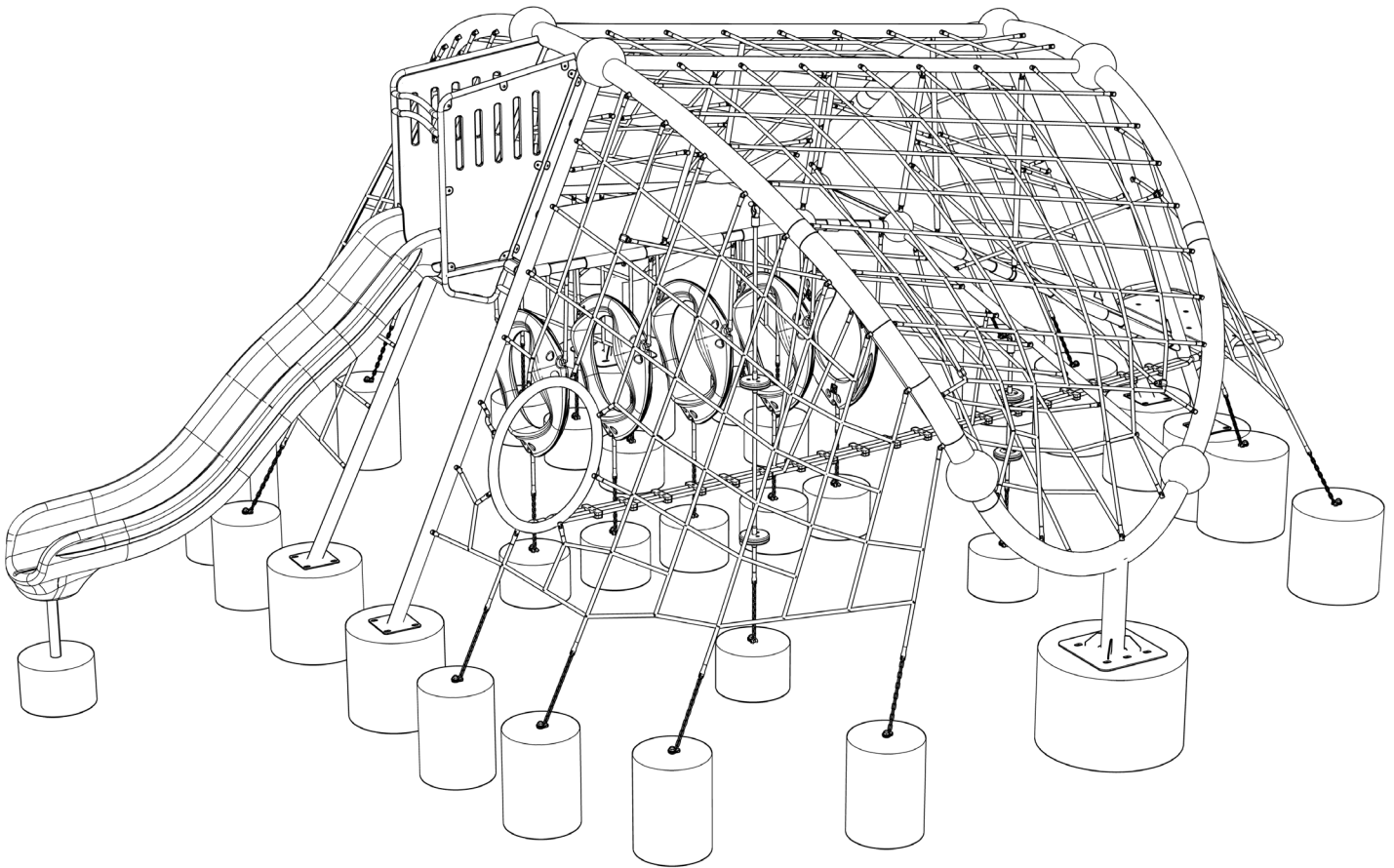
If the equipment has not been installed correctly, do not open for play and take necessary precautions to keep closed until installation is correct, complete and re-inspected.

Protective Surfacing

Make sure appropriate playground surfacing has been installed to meet applicable standards.

Remove All Assembly Aids

Please make sure that all tools and assembly aids have been removed from the playing area before opening for play.



This equipment should be installed, inspected for proper installation, maintained and operated in accordance with applicable safety standards.

Regular maintenance is necessary on all park and playground equipment, including the protective surfacing. Proper maintenance extends equipment life. Maintenance of play environments requires commitment from dedicated and trained individuals with some mechanical ability and common sense.

With regards to overall safety, if you ever feel a piece of equipment or portion of the protective surfacing is broken or dangerous, immediately take the equipment out of service. If necessary, post personnel or fence the equipment to prevent use until the necessary repairs can be made. This is an important precaution that can potentially prevent an injury.

Maintenance Inspection – Frequency and Process

Because play equipment and surfacing are subject to changes from use, abuse, and climate, they must be inspected on a regular basis. The frequency of inspection will be determined by many factors including equipment age, use, and materials, and external factors like the age of the users, climate, and vandalism. Regardless of site-specific attributes of the playground, two types of inspections should be performed on all playgrounds: low frequency and high frequency.

Low Frequency Inspections

Often performed quarterly or semi-annually, low frequency inspections are in-depth investigations of the equipment and surfacing looking for wear and tear. This inspection requires a staff member with mechanical knowledge and extensive knowledge about play equipment and surfacing standards. During or immediately after the inspection, staff should do preventive maintenance and repairs and/or remove damaged equipment to remedy problems discovered in the inspection.

High Frequency Inspections

Often performed daily or weekly, high frequency inspections look at frequently changing conditions caused by use, weather, and/or vandalism. During a high frequency inspection, staff checks and corrects playground conditions such as loose-fill surfacing depths, sanitation issues, and the presence of trash and debris. If any hazards are discovered, staff should follow school or agency procedures such as completing documentation, taking the area out of use, and/or correcting the problem.

Loose hardware

Loose hardware can cause quality problems and put safety at risk. Therefore, loose hardware should always be tightened, and checks carried out to ensure that there are no missing parts.

Identifying replacement parts

All replacement parts are listed in the parts list. The parts list follows the installation requirements.

Actions to be taken during the break-in period

No later than 2 weeks after assembly, all hardware connections should be checked and tightened if necessary. One of the most important factors in proper maintenance is maintaining proper net tension. Net re-tensioning will be required after the first 60-90 days of use and then must be checked again on an annual basis.

Re-tensioning Nets with Connector Balls with Eyebolts

Remove the connector cap. Loosen the outside nut on the eyebolt, then tighten the net by tightening the inside nut. It is very important to adjust the overall net tension evenly by working each connection in a balanced progression. Do not over tighten one eyebolt and skew the net or put too much strain on one portion of the net.

Re-tensioning Nets with Turnbuckles

First prepare the turnbuckle by temporarily removing the loose fill material or by removing the poured-in-place box housing enclosure. With a large wrench, turn the center part of the turnbuckle to tighten. If the turnbuckle is at its maximum tension, it may be necessary to loosen the turnbuckle and reposition the attachment anchor plated. It is very important to adjust the overall net tension evenly by working each turnbuckle in a balanced progression. Do not over tighten one turnbuckle and skew the net or put too much strain on one portion of the net.

Maintenance of protective surfaces

Surfaces providing fall protection must also be maintained regularly. It is particularly important to maintain the correct level of loose surface material and add more if necessary (refer to applicable standards).

Damage

Damaged equipment must be repaired as soon as possible. If serious defects that affect the safety and cannot be repaired immediately, the equipment then must be closed to prevent further use.



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6375

COMMUNICATION PANEL

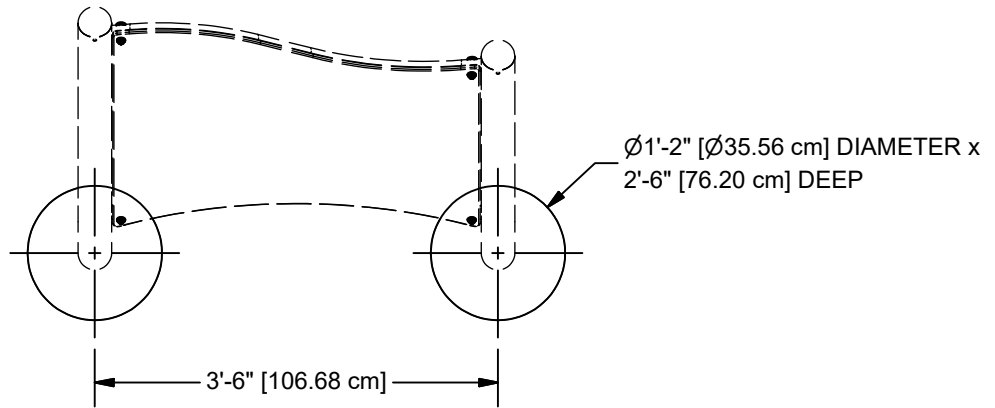
ISSUED/REVISED: 2/3/2023



ASSEMBLY VIEW

INSTALLATION INSTRUCTIONS

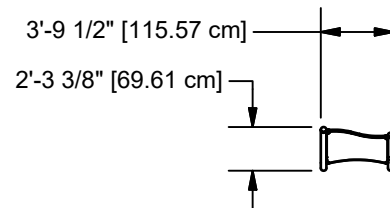
1. Before assembling this equipment, read the enclosed **INSTALLER INSTRUCTIONS** in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the **ASSEMBLY DRAWING**. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



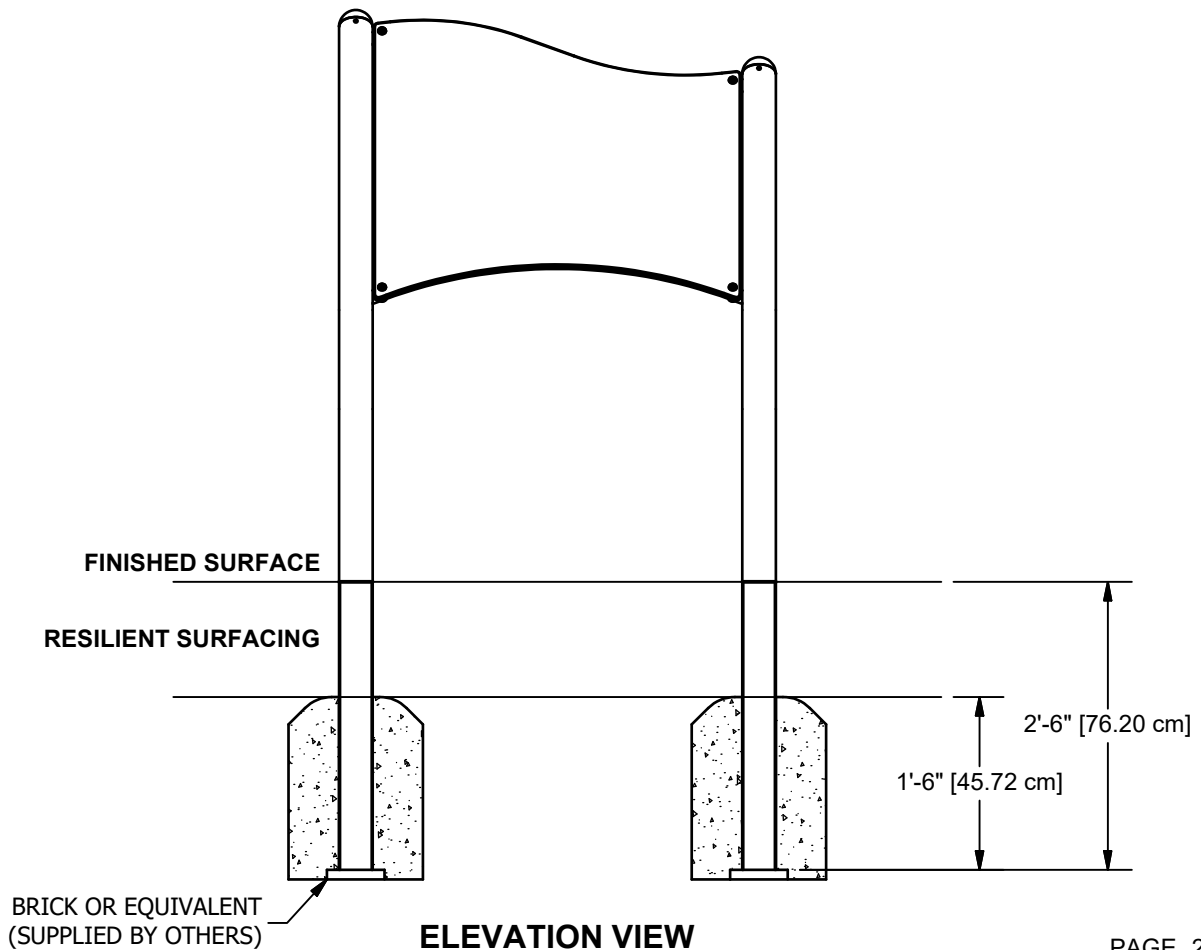
PLAN VIEW

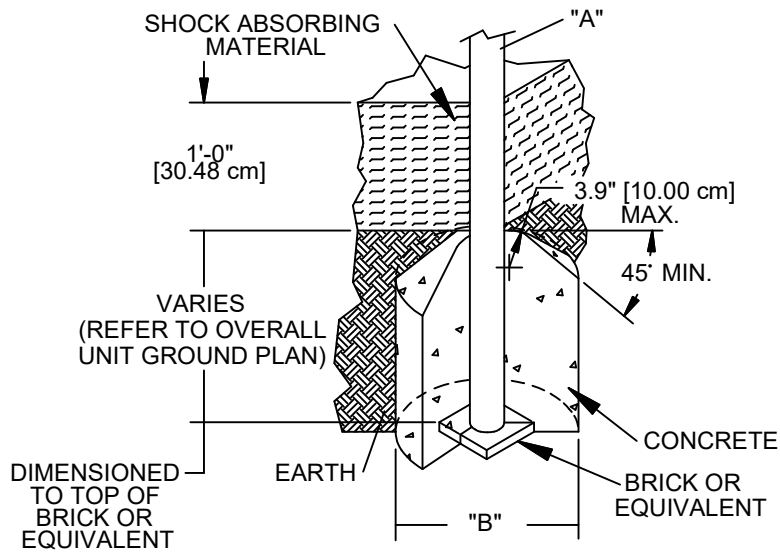
NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED:
0.12 CUBIC YARDS
[0.09 CUBIC METERS]



TOP VIEW





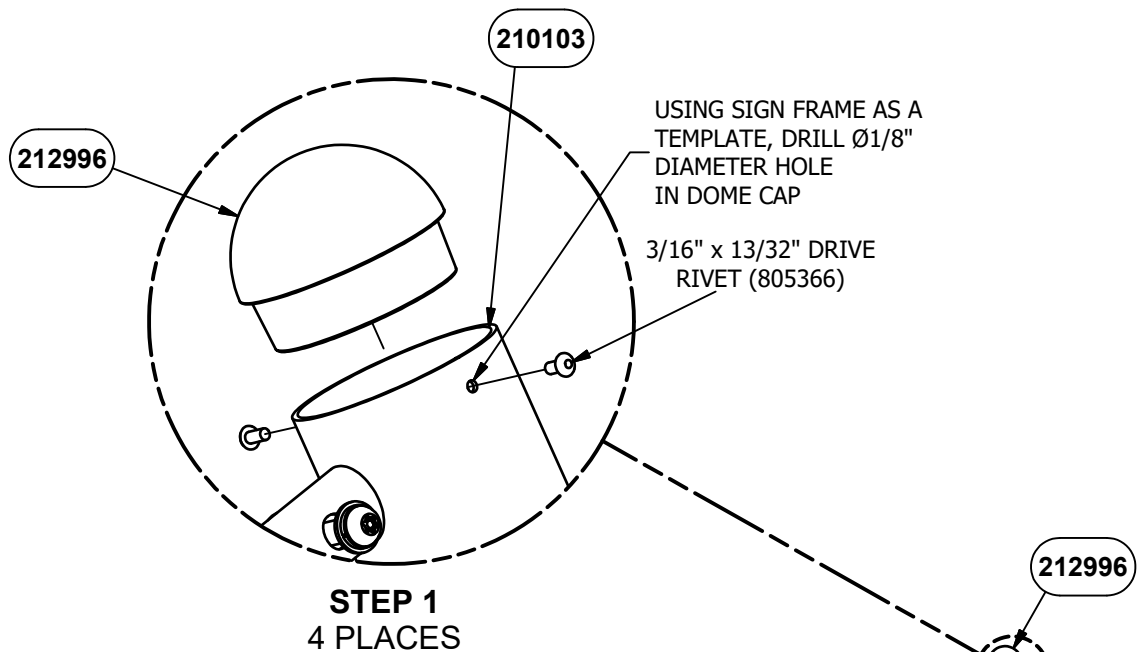
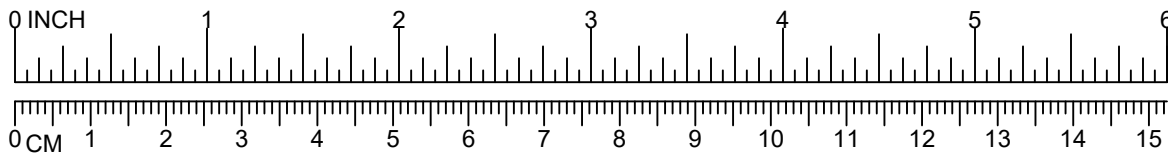
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]

NOTES:

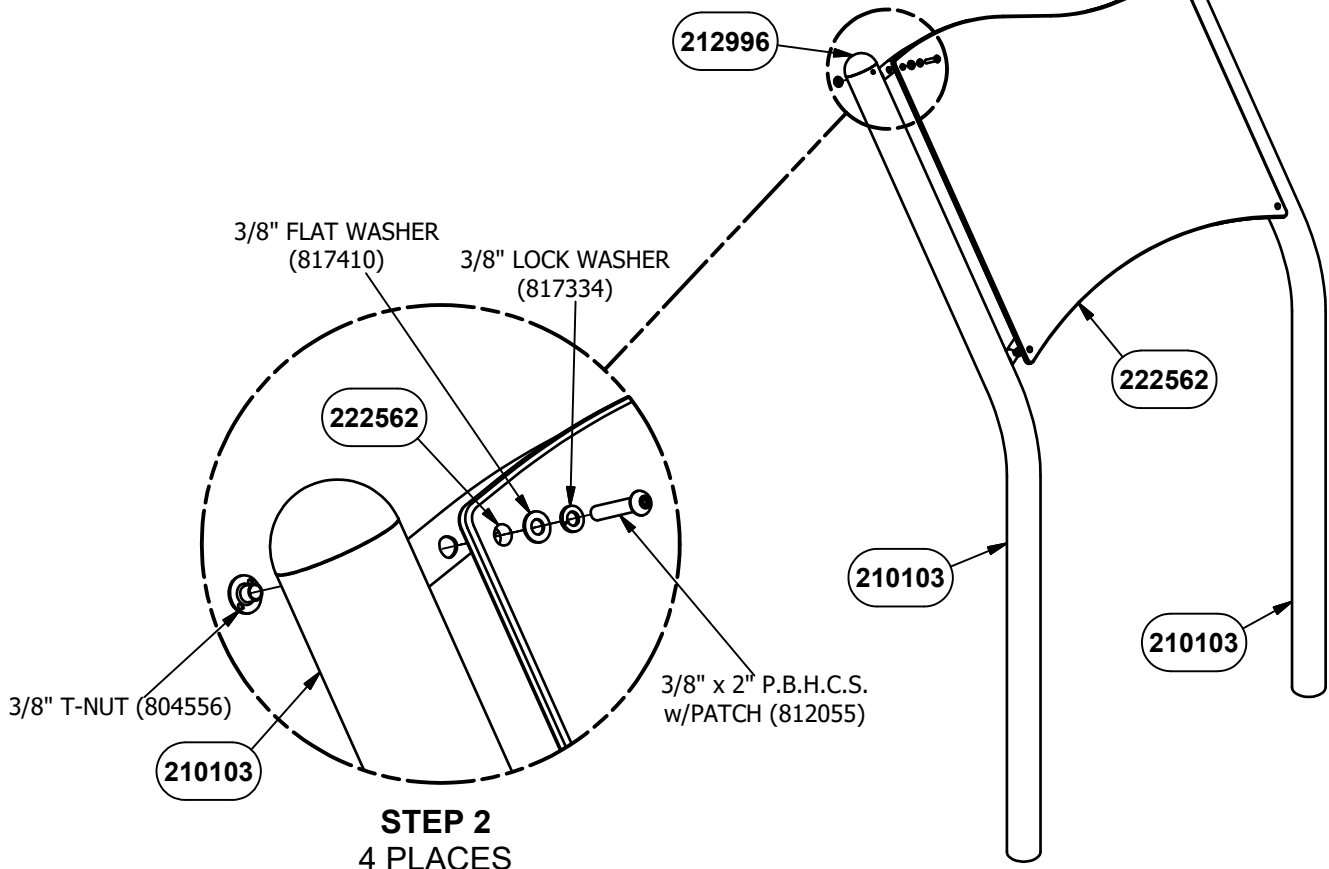
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

FOOTING DETAIL



STEP 1
4 PLACES



STEP 2
4 PLACES

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: Refer to Detail Views for the specific hardware required in each connection.

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

STEP 1: Attach Dome Caps to Sign Frame. **NOTE:** Using Sign Frame as a template, drill Ø1/8" diameter hole in Dome Cap. **REFER TO PAGE 4.**

STEP 2: Attach Communication Panel to Sign Frame. **REFER TO PAGE 4.**

Parts List		
DESCRIPTION	QTY	PART NUMBER
COMMUNICATION PANEL	1	222562
SIGN FRAME	1	210103
DOME CAP	2	212996
HARDWARE COMPLETE	1	222565
3/16" x 13/32" DRIVE RIVET	4	805366*
3/8" x 2" P.B.H.C.S. w/PATCH	4	812055*
3/8" FLAT WASHER	4	817410*
3/8" LOCK WASHER	4	817334*
3/8" T-NUT	4	804556*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

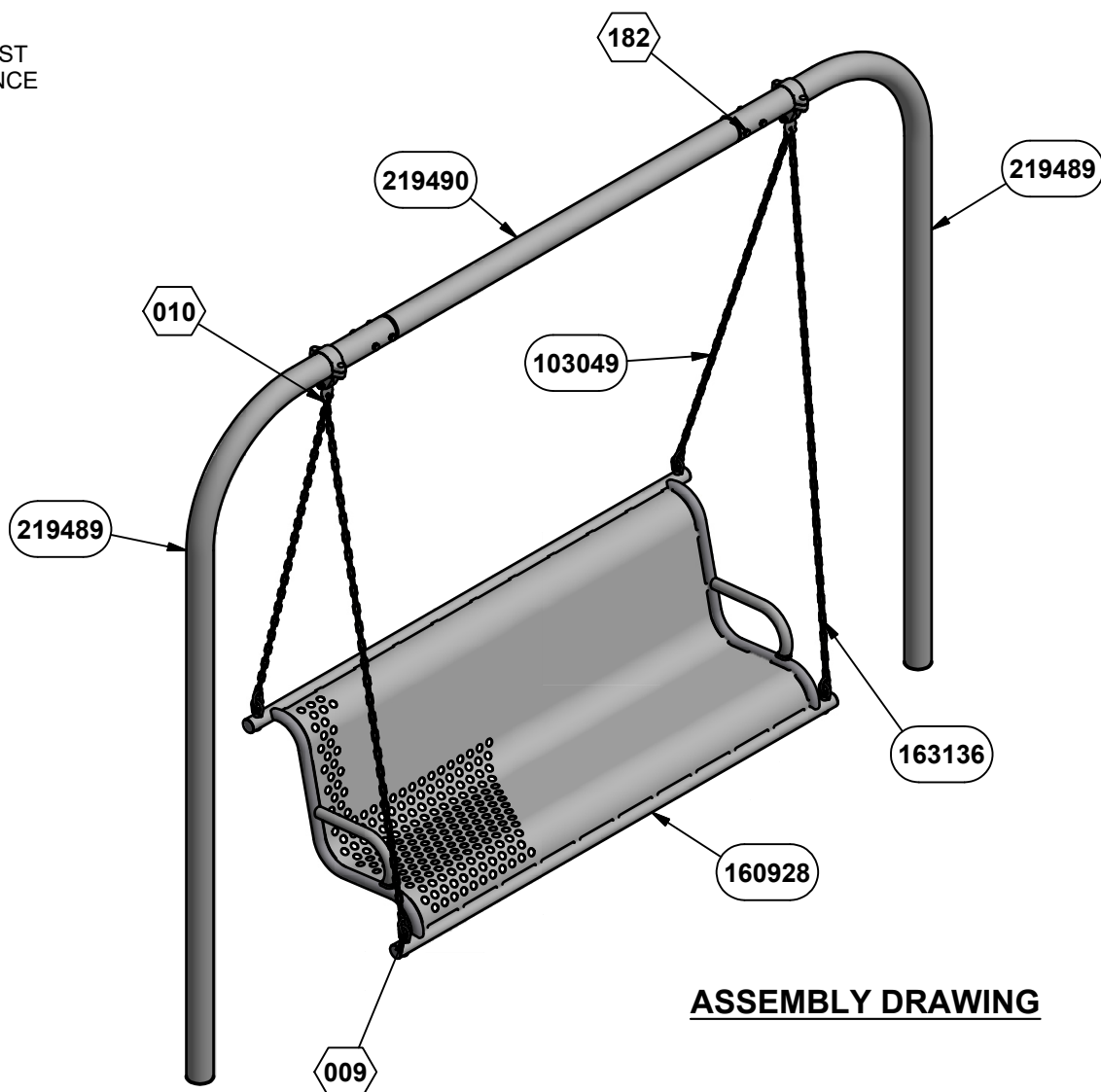
MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

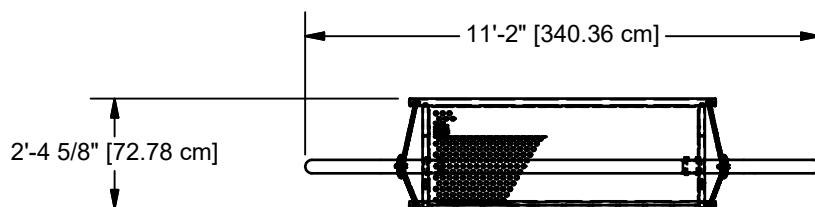
SWAY BENCH

ISSUED/REVISED: 12/8/2022

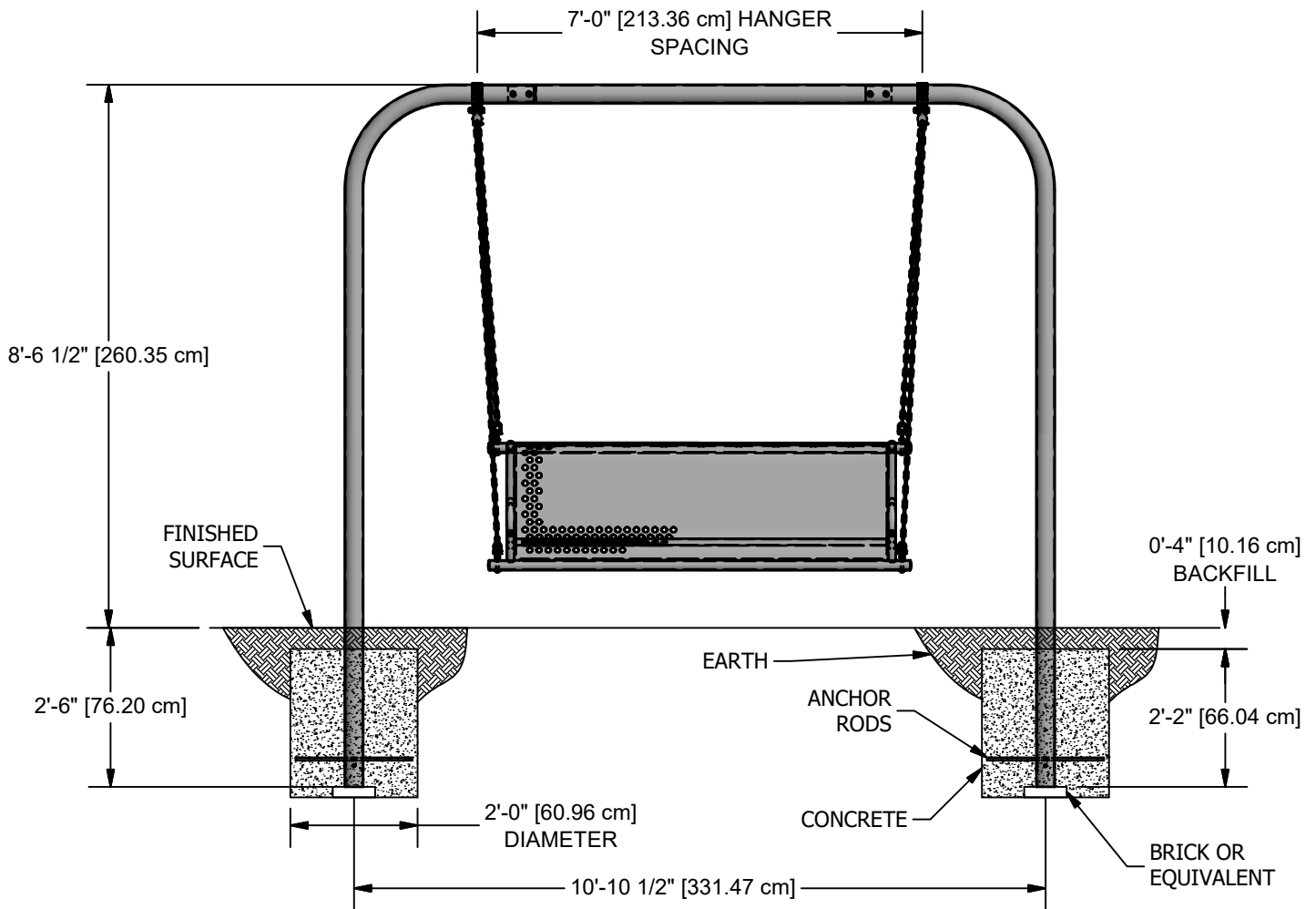
- ⬡ = INSTALLATION
DETAIL
○ = PARTS LIST
REFERENCE



ASSEMBLY DRAWING



TOP VIEW



CONCRETE REQUIRED:
.50 Cubic Yards
[.38 Cubic Meters]

**SUGGESTED MINIMUM CONCRETE
RATING: 3000 PSI**

NOTE: Hole depths are measured from the Finished Surface. All footing dimensions are based on level finished surface. Slope top of footing for proper water drainage.

ELEVATION VIEW

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

STEP 1: Dig required holes (2'-6" [76.20cm] deep x 2'-0" [60.96cm] diameter x 10'-10 1/2" [331.47cm] apart). Place a brick or equivalent at the bottom of each hole to provide a solid foundation for each upright. See Elevation View.

STEP 2: Place swing uprights into holes. Connect Toprail to Uprights with bolts, washers, and nuts (see Detail 182).

Attach Swing Hangers to Uprights spaced 7'-0" apart. See Elevation View. Check to make sure that the uprights are the correct distance apart, the swing hangers are level in relation to each other, and that the uprights are vertically plumb.

STEP 3: Pour concrete to within 0'-4" [10.01cm] of Finished Surface, and fill remaining with backfill. See Elevation View.

STEP 4: After concrete has set for 48 hours, hang bench on chains.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

SPECIFICATIONS

UPRIGHT: Shall be 3.5" outside diameter, 13 gauge (.095") galvanized round tubing, manufactured to ASTM A-500 Section II tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec. for Steel Coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. Upright shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

SWAY BENCH: Bench shall be fabricated from 12 gauge (.109" thick) punched steel with a protective P & O finish. Arm rest and side frame shall be 1-1/2" O.D., 16 gauge (.065") wall galvanized tubing. Swing support shall be 1-1/2" O.D., 11 gauge (.120") wall galvanized pipe. Bench shall be a one-piece welded assembly and shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

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

NOTE: All weights are based on average comparisons of each part.

SPECIFICATIONS: GAMETIME has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

Parts List		
DESCRIPTION	QTY	PART NUMBER
SWAY BENCH	1	160928
UPRIGHT	2	219489
TOPRAIL	1	219490
----HARDWARE COMPLETE----	1	220325
CHAIN (80" LONG)	2	163136
CHAIN 60" LG.	2	103049
ANCHOR ROD	4	156063*
3/8" SHACKLE w/ BOLT-PIN	4	161853*
1/2" x 4" HEX HEAD BOLT	4	801215*
1/2" FLAT WASHER	4	817412*
1/2" LOCKWASHER	4	817342*
1/2" HEX NUT	4	804055*
TOP CLEVIS	2	157002**
BOTTOM CLEVIS	2	157012**
SWING PENDULUM	2	157010**
1/2" x 2 1/2" HEX BOLT	2	801200**
1/2" LOCKWASHER	2	817342**
1/2" HEX NUT	2	804055**
3/8" x 2" CARRAIGE BOLT	4	800256**
3/8" x 1" SHOULDER BOLT	2	811226**
3/8" LOCK NUT	4	804353**

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

*** Included in 1462 Swing Hanger Packages*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

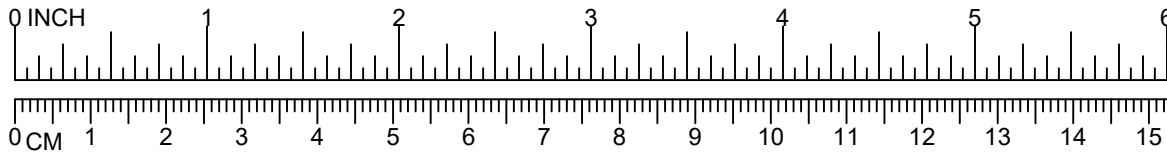
DETAILS -for- 28028

IMPORTANT

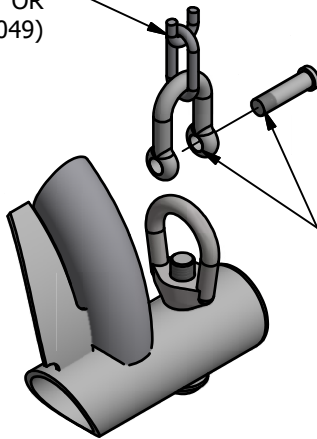
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

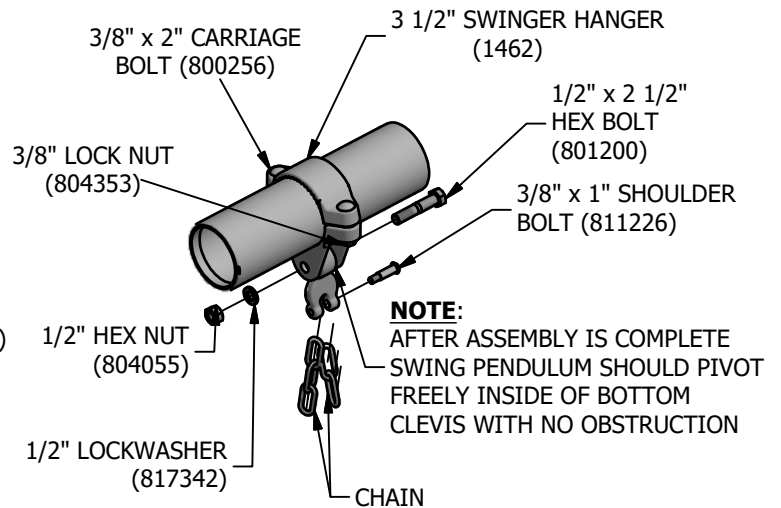
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



CHAIN
(163136)
OR
(103049)



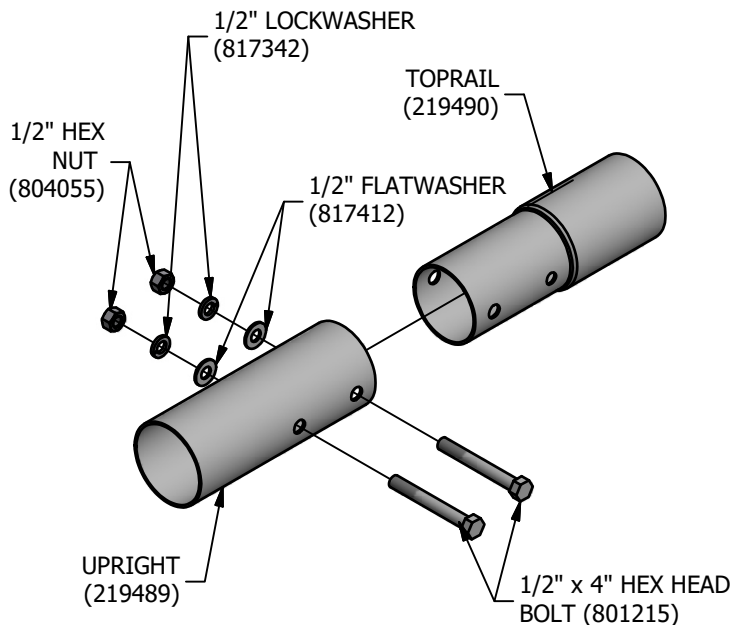
3/8" SHACKLE w/
BOLT-PIN (161853)



NOTE:
AFTER ASSEMBLY IS COMPLETE
SWING PENDULUM SHOULD PIVOT
FREELY INSIDE OF BOTTOM
CLEVIS WITH NO OBSTRUCTION

009

010



182

PowerScape®

GameTime®



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 7/28/23

91074 HILLSIDE DOUBLE ZIP SLIDE

3'-0" RUMBLE & ROLL ZIP SLIDE	91074
4'-0" DOUBLE ZIP SLIDE	91075
5'-0" DOUBLE ZIP SLIDE	91076
6'-0" DUELING WAVE ZIP SLIDE	91077

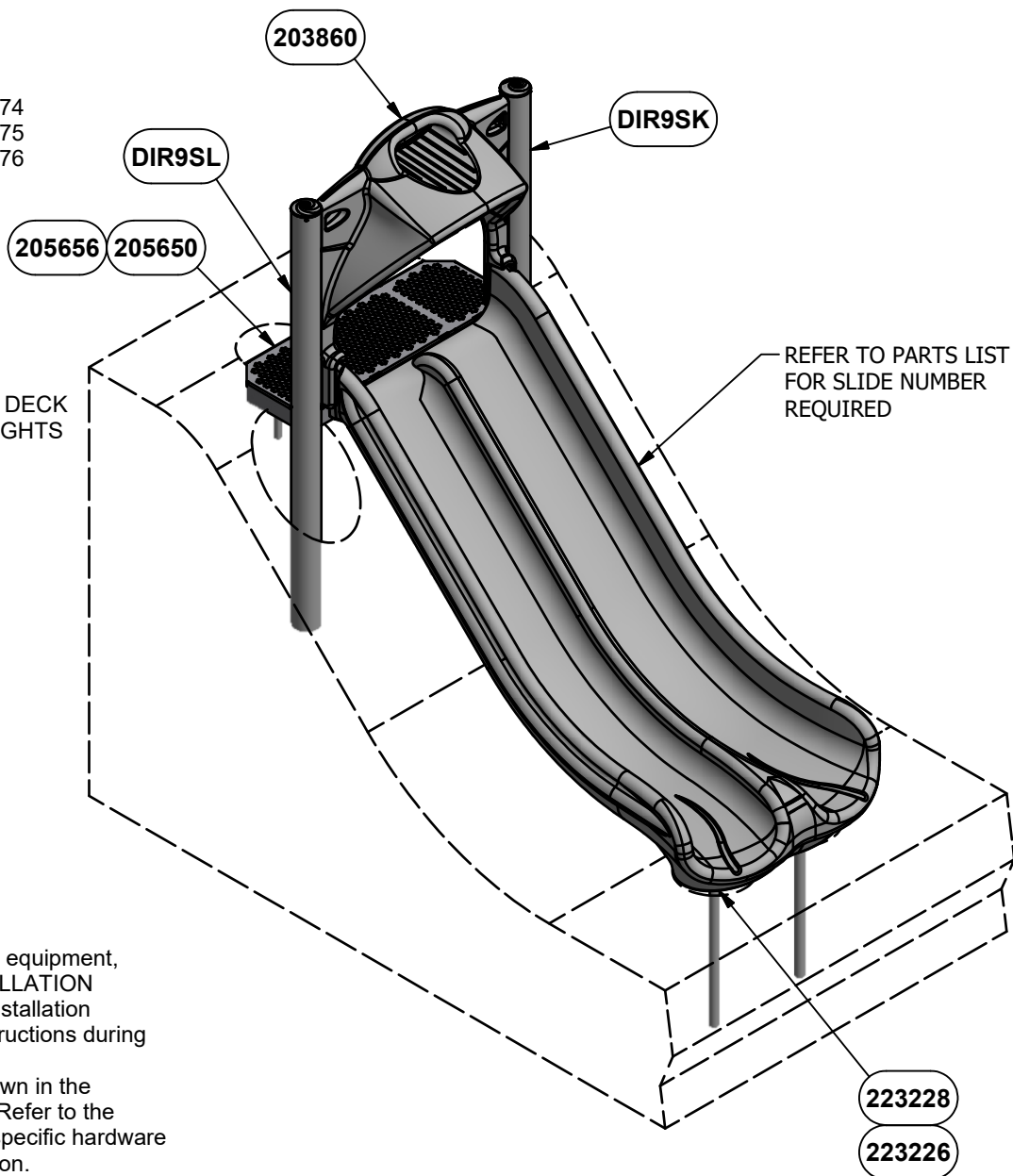
 = INSTALLATION
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 = PARTS LIST
 = REFERENCE



91074
91075
91076



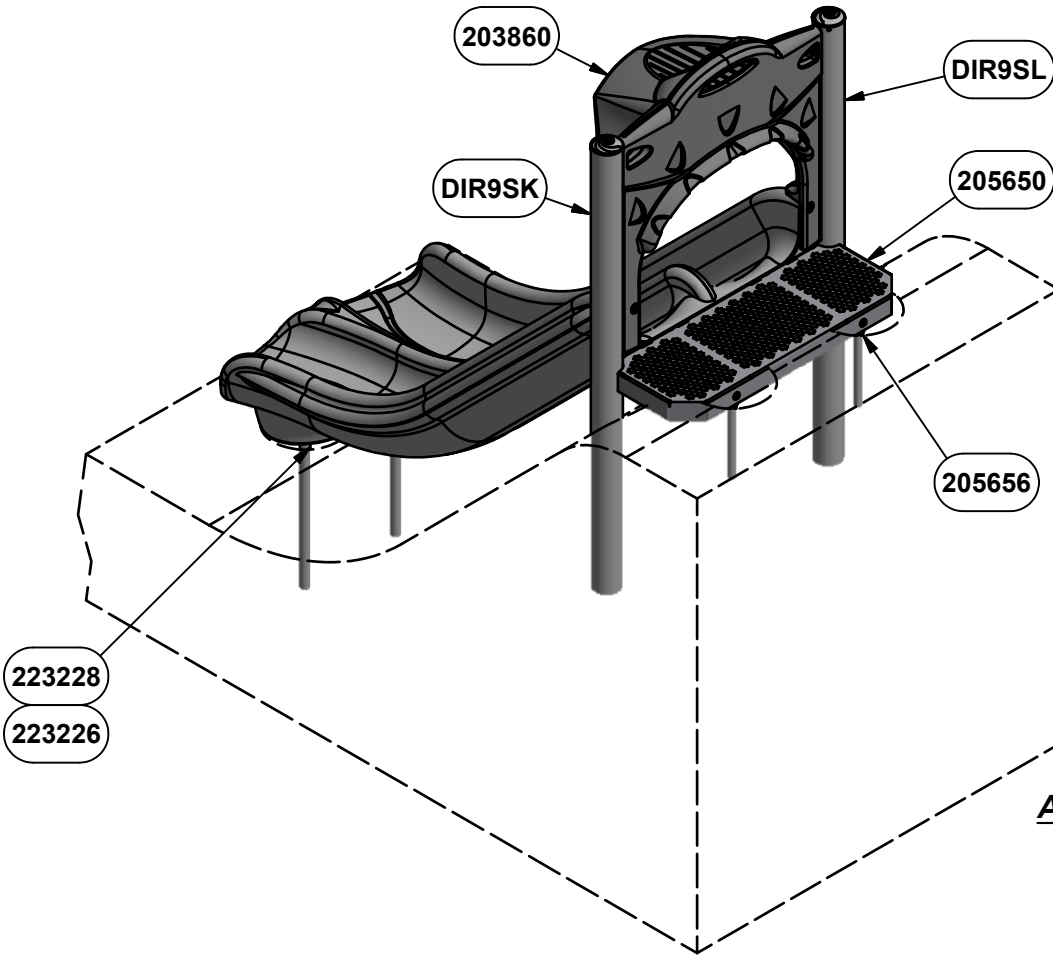
ALL DECK
HEIGHTS



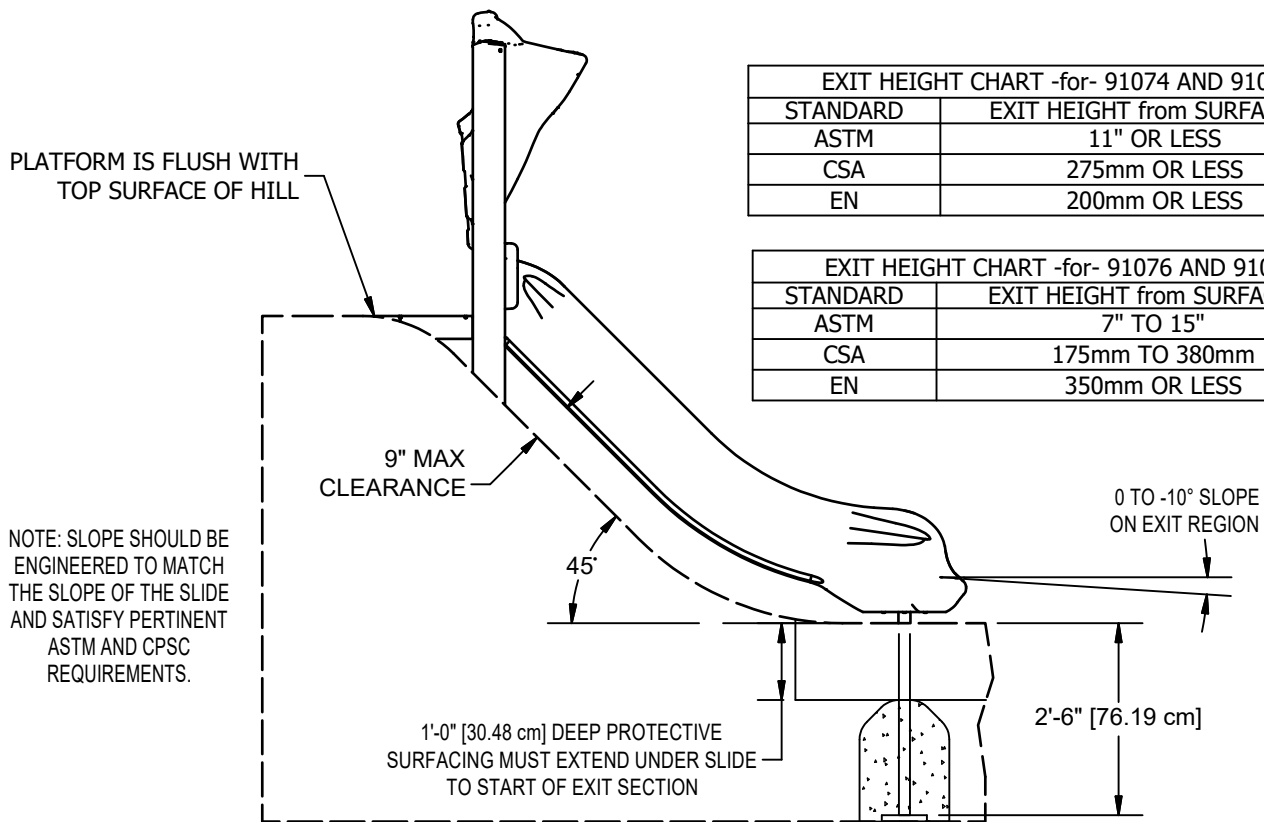
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. If the white plug underneath slide is not drilled, drill a 3/16" diameter hole in center after installation.

ASSEMBLY VIEW
91076 SHOWN



**ASSEMBLY VIEW
91076 SHOWN**

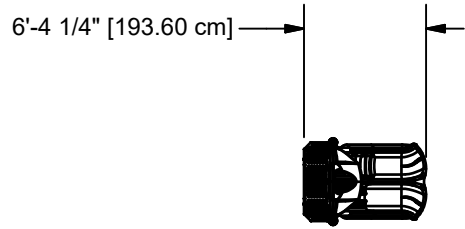


NOTE: SLOPE SHOULD BE ENGINEERED TO MATCH THE SLOPE OF THE SLIDE AND SATISFY PERTINENT ASTM AND CPSC REQUIREMENTS.

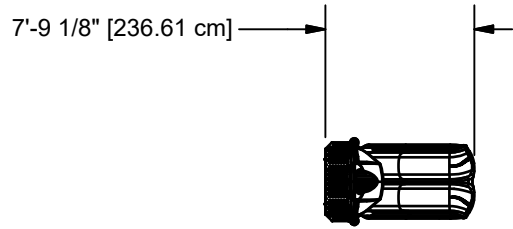
EXIT HEIGHT CHART -for- 91074 AND 91075	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	11" OR LESS
CSA	275mm OR LESS
EN	200mm OR LESS

EXIT HEIGHT CHART -for- 91076 AND 91077	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

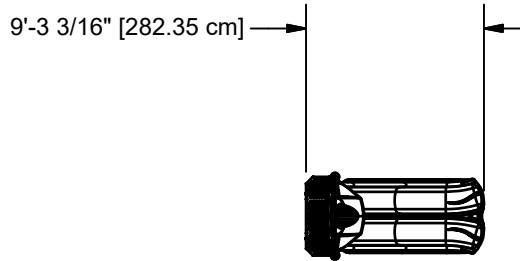
HILL DETAIL



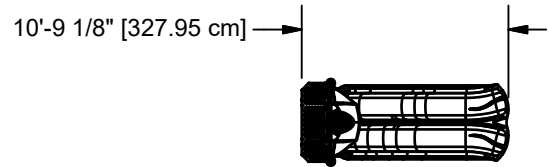
91074



91075

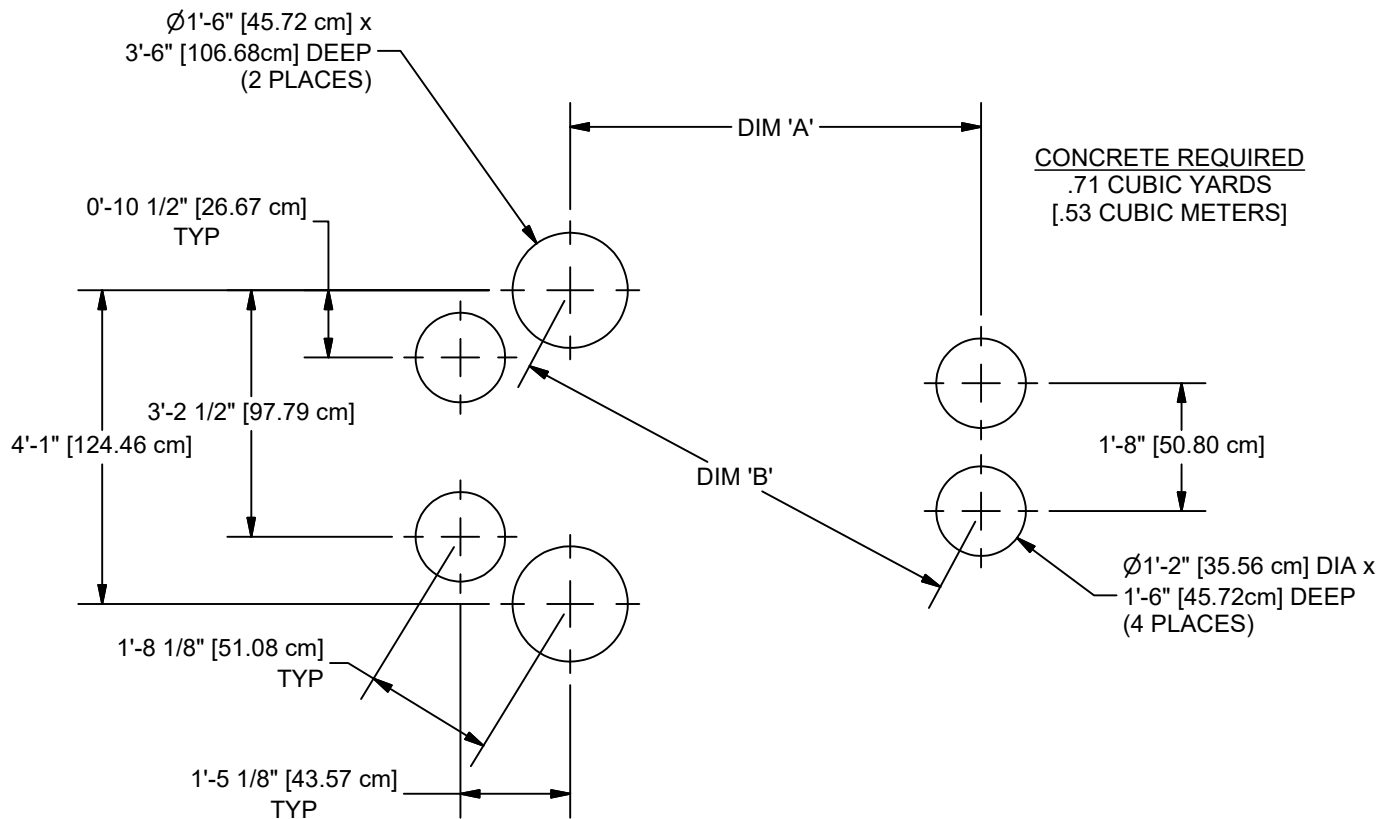


91076



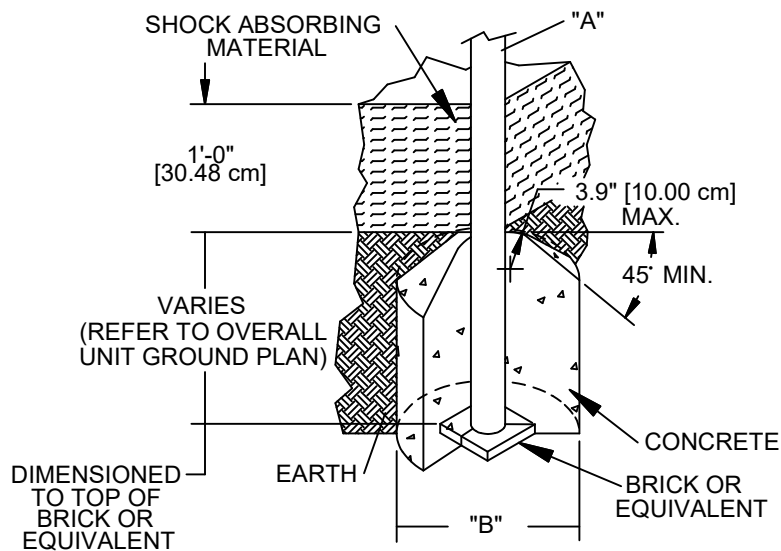
91077

TOP VIEWS



NOTE:
HOLE DEPTHS INDICATED ON ALL GROUND PLANS
ARE MEASURED FROM THE FINISHED SURFACE.
SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE
BASED ON LEVEL FINISHED SURFACE.

PART NO.	DIM "A"	DIM "B"
91074	3'-11 1/8" [120 cm]	4'-10 7/16" [148 cm]
91075	5'-4 1/8" [163 cm]	6'-0 7/8" [185 cm]
91076	6'-9 1/8" [206 cm]	7'-4 1/8" [224 cm]
91077	8'-3 3/8" [252 cm]	8'-9 3/16" [267 cm]



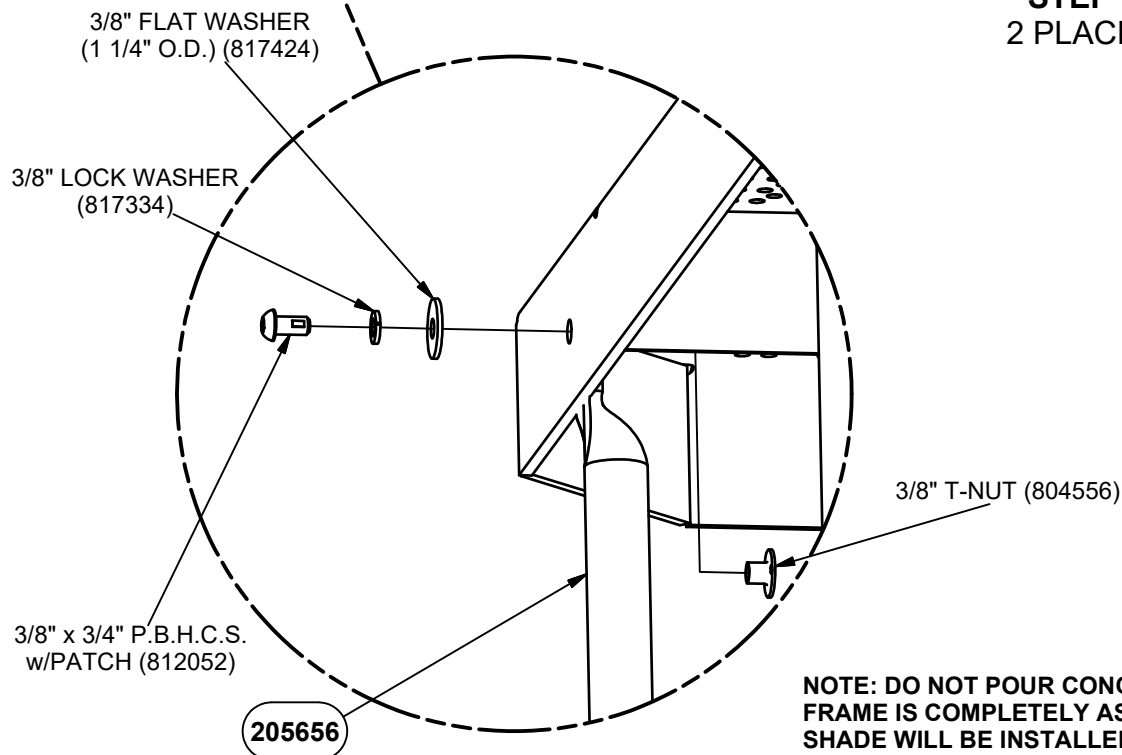
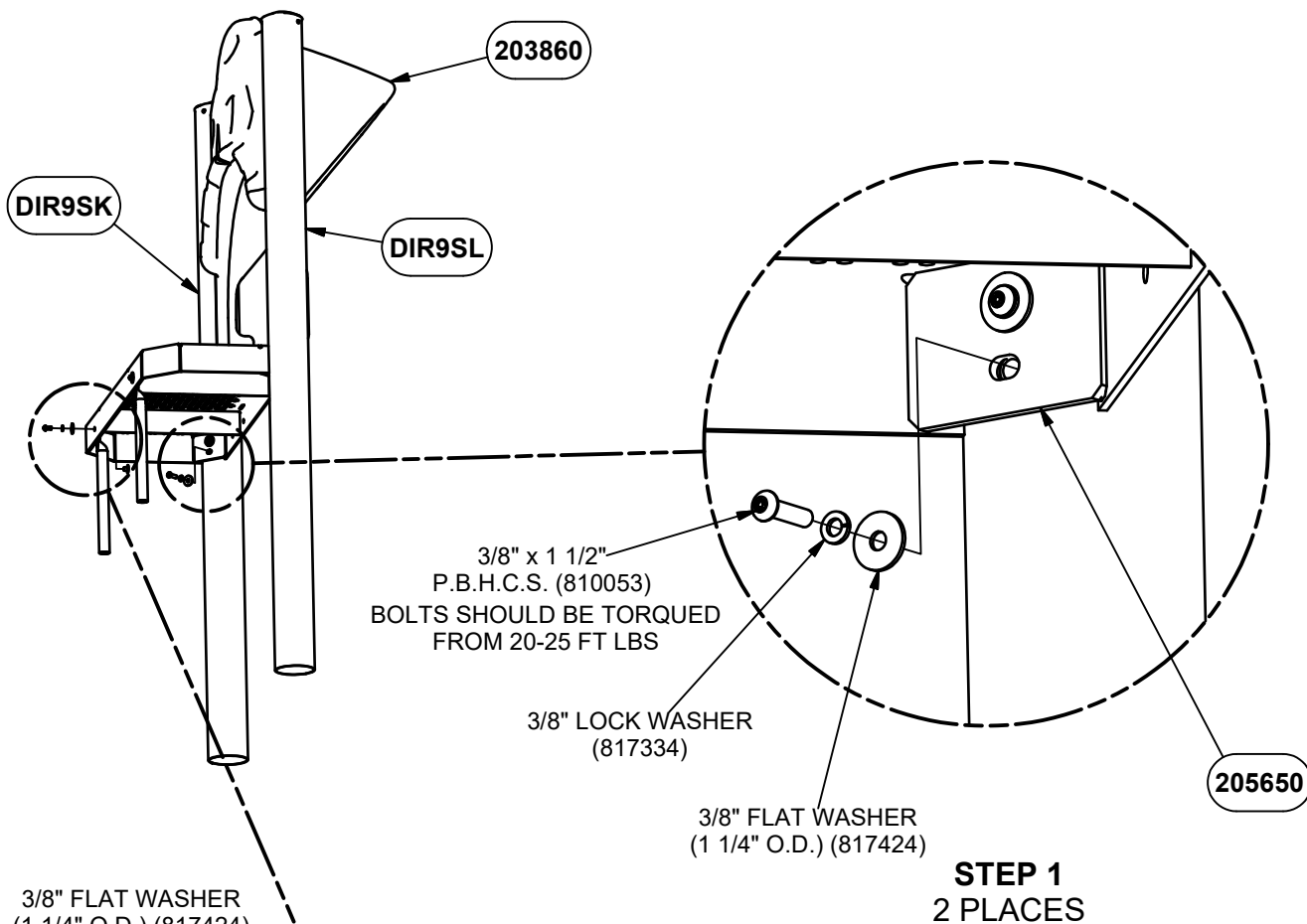
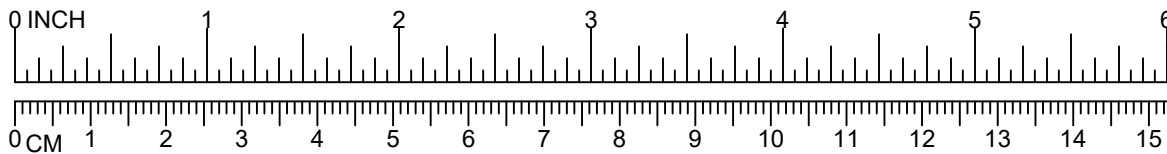
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

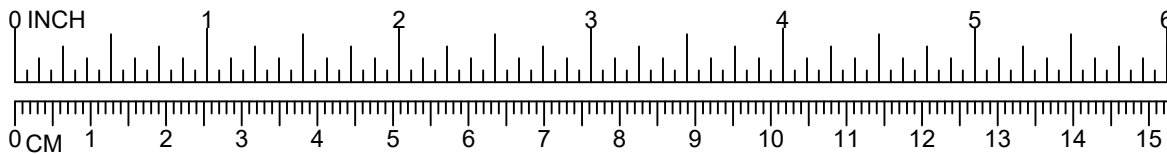
FOOTING DETAIL



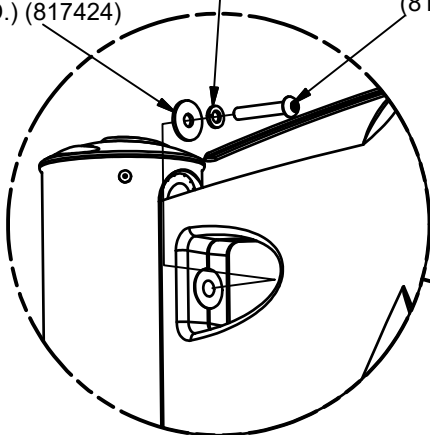
STEP 2
2 PLACES

DETAIL VIEW

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
FRAME IS COMPLETELY ASSEMBLED AND LEVEL.
SHADE WILL BE INSTALLED AFTER CONCRETE
HAS CURED APPROXIMATELY 48 HOURS.**



3/8" LOCK WASHER (817334)
 3/8" x 2 1/4" P.B.H.C.S. w/PATCH (812056)
 3/8" FLAT WASHER (1 1/4" O.D.) (817424)

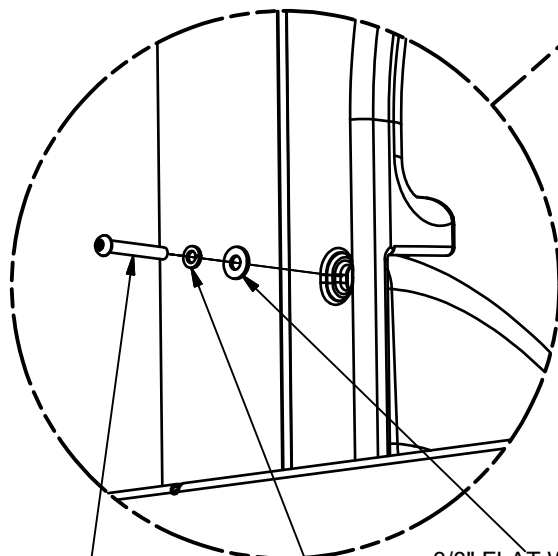


STEP 3
 2 PLACES

205650

203860

DIR9SL



3/8" x 2 3/4" P.B.H.C.S. w/PATCH (812058)

3/8" FLAT WASHER (1" O.D.) (817401)

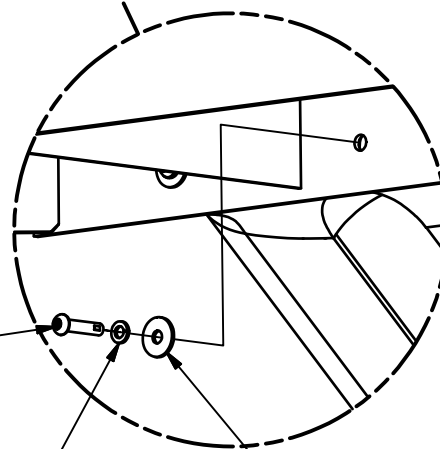
3/8" LOCK WASHER (817334)

STEP 5
 2 PLACES

3/8" x 1 3/4" P.B.H.C.S. w/PATCH (812054)

3/8" LOCK WASHER (817334)

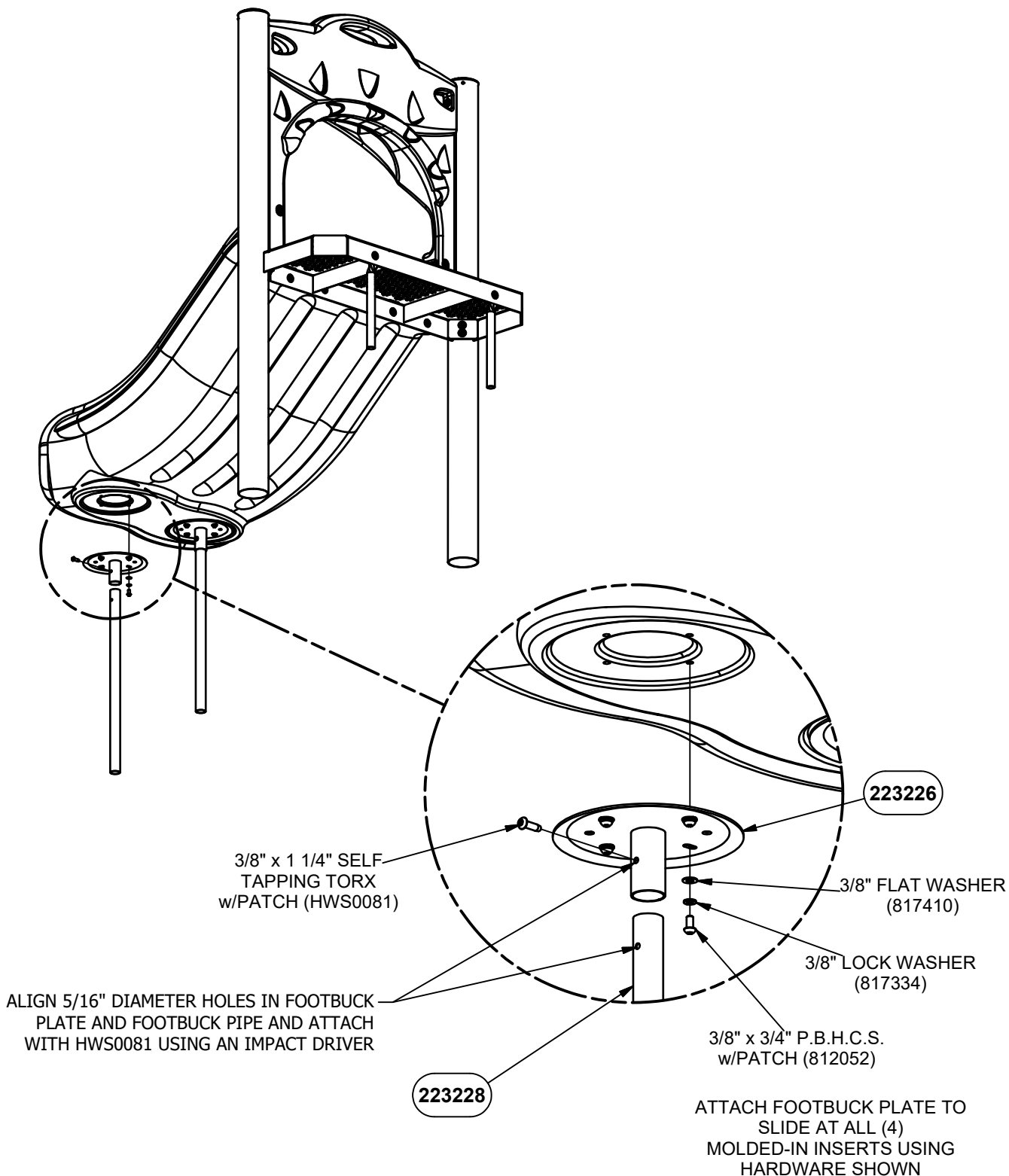
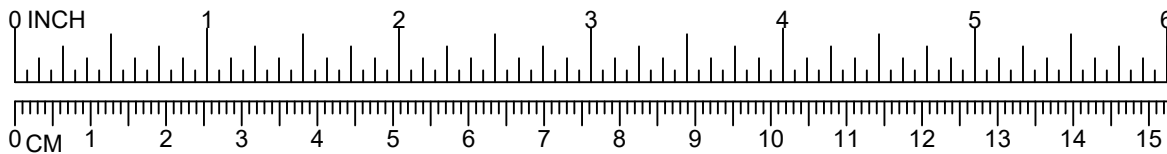
3/8" FLAT WASHER (1 1/4" O.D.) (817424)



STEP 4
 4 PLACES

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE FRAME IS COMPLETELY ASSEMBLED AND LEVEL. SHADE WILL BE INSTALLED AFTER CONCRETE HAS CURED APPROXIMATELY 48 HOURS.

DETAIL VIEW



STEP 6 2 PLACES

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE FRAME IS COMPLETELY ASSEMBLED AND LEVEL. SHADE WILL BE INSTALLED AFTER CONCRETE HAS CURED APPROXIMATELY 48 HOURS.

DETAIL VIEW

Parts List					
DESCRIPTION	91074	91075	91076	91077	PART NUMBER
3' RUMBLE & ROLL SLIDE	1	0	0	0	176401
4' DOUBLE ZIP SLIDE	0	1	0	0	176188
5' DOUBLE ZIP SLIDE	0	0	1	0	176189
6' DUELING WAVE SLIDE	0	0	0	1	176158
DOUBLE ZIP SLIDE HOOD	1	1	1	1	203860
FOOTBUCK PLATE	2	2	2	2	223226
FOOTBUCK PIPE	2	2	2	2	223228
SMASHED PIPE	2	2	2	2	205656
COATED PLATFORM	1	1	1	1	205650
5" AL PIPE WITH CAP 7'	1	1	1	1	DIR9SL
5" AL PIPE WITH CAP 7'	1	1	1	1	DIR9SK
HARDWARE COMPLETE	1	1	1	1	205681
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	812054*
3/8" FLAT WASHER (1 1/4" O.D.)	12	12	12	12	817424*
3/8" LOCK WASHER	22	22	22	22	817334*
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	2	2	2	812058*
3/8" FLAT WASHER (1" O.D.)	2	2	2	2	817401*
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	2	2	2	812056*
3/8" x 1 1/2" P.B.H.C.S.	4	4	4	4	810053*
3/8" x 3/4" P.B.H.C.S. w/PATCH	10	10	10	10	812052*
3/8" T-NUT	2	2	2	2	804556*
3/8" FLAT WASHER	8	8	8	8	817410*
3/8" x 1 1/4" SELF TAPPING TORX w/PATCH	2	2	2	2	HWS0081*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

VISTAröpe



A **PLAYCORE** Company

1-800-235-2440

ISSUED/REVISED: 05/02/2023

5962SP

VistaTree Top 5

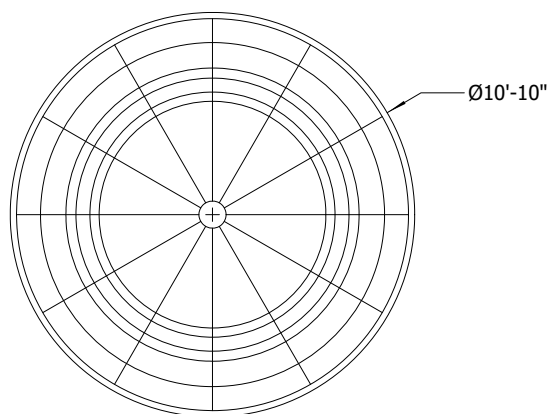


INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



ASSEMBLY VIEW



TOP VIEW

Parts List		
DESCRIPTION	QTY	PART NUMBER
NET PKG	1	RC-2300-F

HANDLING AND LIFTING EQUIPMENT



DELIVERY

Proper off-loading/lifting equipment is required

Crates are HEAVY, handle with care

Do not open crates until ready to assemble

ASSEMBLY

Lifting equipment is required to hold frames during assembly and to lift nets into position.



HANDLE WITH CARE

Model Number:	5962SP
Model Name:	VistaTree Top 5
Size:	Length: 10' 10" Width: 10' 10" Height: 11' 2"
Fall Height:	8'
Foundations:	1
Concrete Volume:	0.9 cubic yards
COMPLIANT WITH:	ASTM F-1487 CSA Z614
Ages:	5-12 years
Use Zone:	Length: 22' 10" Width: 22' 10"



Technical Details:

Inner Post	Inner Support Post shall be 5-1/2" (139.8mm) diameter galvanized steel tubing.
Rotational Post	Outer Support Post shall be 6-1/2" (165.2mm) diameter steel tubing. After fabrication the frame shall be powder coated in accordance with the specifications herein.
Bearings	Precision machined ultra-high-molecular-weight polyethylene.
Frame	Main Structure shall be , which after fabrication shall be powder coated in accordance with the specifications herein.
Climbing Nets	20mm diameter rope consists of 6 main strands, each strand containing 24 galvanized steel reinforcing strands within a polyamide sleeve, wrapped around a solid polyamide core for a total of 144 reinforcing strands. Ropes shall achieve a Class 7-8 colorfastness rating.
Rope Ball Connectors	One-piece compressed aluminum ball connector, compressed in place with 150,000 pounds source (667kN) to prevent the connection from moving and causing premature cable wear.
Rope End Fittings	One-piece compressed stainless steel end fitting.
Decking	Constructed of 3/16" (5mm) thick steel. Deck sections are dipped in a phthlate-free textured slip-resistant polyvinyl chloride plastisol coating.
Fasteners	All fasteners shall be stainless steel with locking patch or locking compound.
Metal Finish	Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electro-static method to a minimum thickness of four mils. Promptly after application of the powder, the coating shall be oven-cured at 350 degrees Fahrenheit. The color(s) of the polyester coating shall be from the manufacturer's standard color selection.
Installation	Installation recommended by a licensed playground contractor, trained and certified on the applicable playground installation methods and standards, preferably certified by manufacturer or National Playground Contractors Association.

Description	Quantity
BIG FLAT WASHER M10	32
BIG FLAT WASHER M12	12
BOTTOM BEARING $\Phi 156.5 * 60\text{mm}$	1
DECK (PVC COATED FLOOR) $\Phi 1880 * 850\text{mm}$	2
EYE BOLT M16	1
FIX BOLT M8 * L55mm	12
FIX BOLT M8 * L30mm	16
FIX BOLT M8 * L70mm	16
FIX NUT M8 * L33mm	44
HEAD SCREW BOLTS M6 * L12mm	2
HEX BOLT M12 * L30mm	6
HEX NUT M16	4
HSCS BOLT M8 * L15mm	3
INNER POST $\Phi 139.8 * 4570\text{mm}$	1
JOINT FIX BOLT M6 * L17mm	66
JOINT FIX NUT M6 * L20mm	66
LOCK NUT M12	6
LOWER NET $\Phi 20$	1
LOWER RING (HALF) $\Phi 76.3 * 2T * \Phi 2000$	2
NYLON JOINT SLEEVE $\Phi 75 * 100\text{mm}$	10
OUTER POST $\Phi 165.2 * 3170\text{mm}$	1
POST CAP $\Phi 270 * 120\text{mm}$	1
SPIDER NET $\Phi 20$	1
SPRING WASHER M16	4
STUD BOLT M16 * L500mm	2
TOP BEARING $\Phi 156.5 * 70\text{mm}$	1
TOP FLANGE SET $\Phi 300\text{mm}$	1
UPPER NET $\Phi 20$	1
UPPER RING (QUARTER) $\Phi 76.3 * 2T * \Phi 3300$	4

NET PACKAGE GENERAL TOOL LIST

Not all Tools may be required

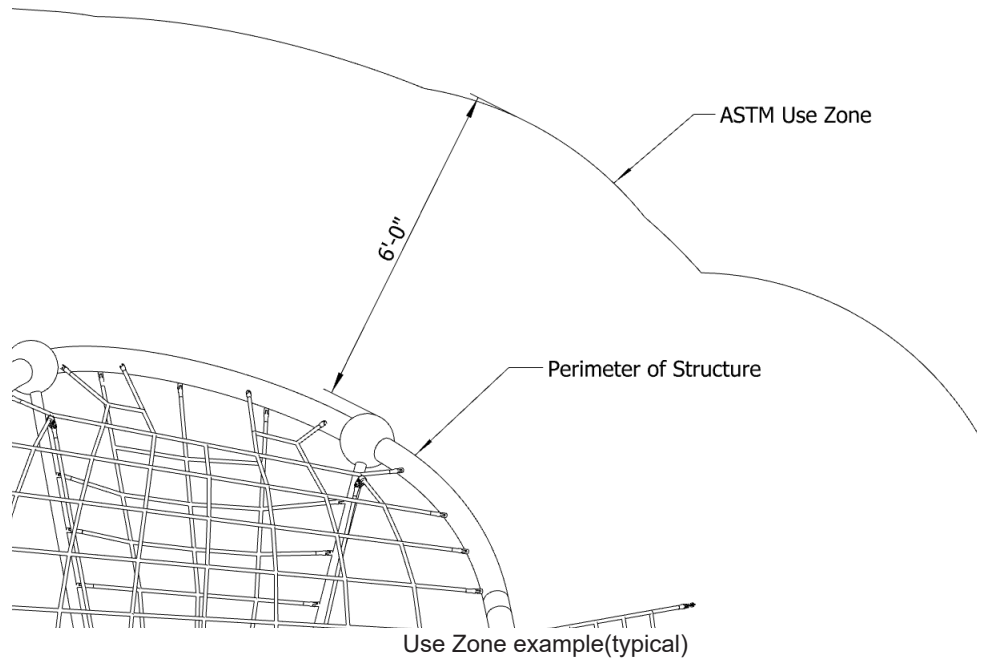
Metric tools are required unless otherwise noted

Tool Type	Size(s)	Minimum Quantity
Hex Bits	3mm	1
	5mm	2
	6mm	1
	8mm	1
"Tamper Proof" Torx Bit	TT45	2
Wrenches	10mm	1
	13mm	1
	17mm	1
	19mm	1
	20mm	1
	22mm	1
	25mm	1
	27mm	1
Sockets	13mm	1
	17mm	1
	19mm	1
	20mm	1
	22mm	1
	25mm	1
	27mm	1
Screwdriver	Philips #2	1
Pipe Wrench	18"	
Red Threadlock		
Beam Level	6'	1
Transit level		1
Ratchet Strap	27" min	2

IMPORTANT SURFACING INFORMATION

USE ZONES

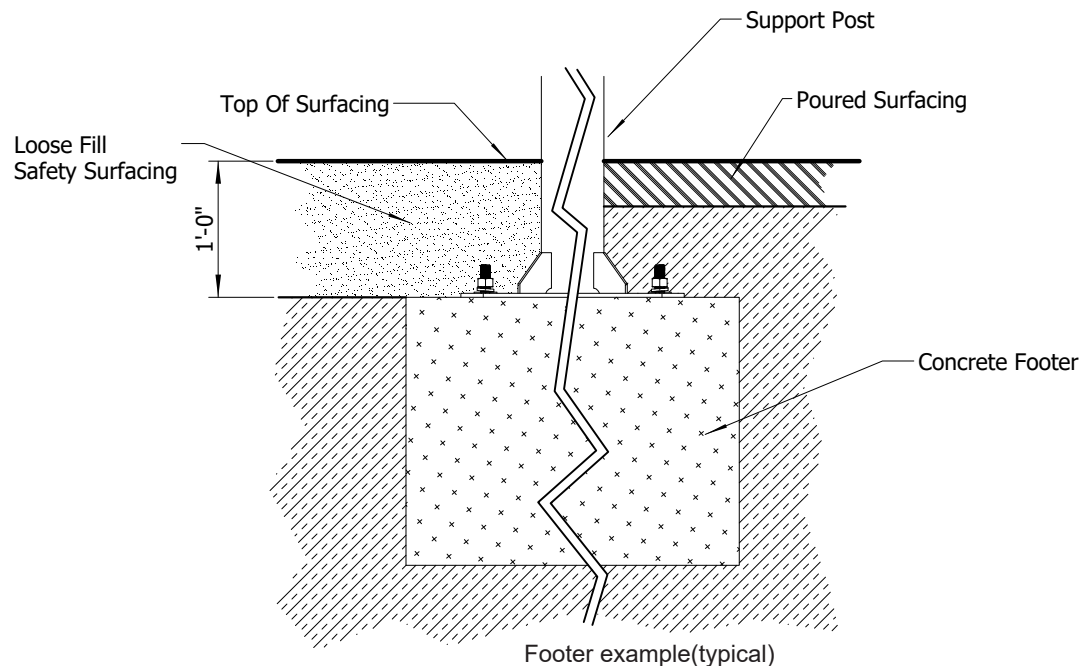
According to ASTM-F1487, all play structures require an unobstructed Use Zone of safety surfacing adequate for the fall height of the equipment--see the Product Specification--extending a minimum of 6' from all sides, as shown on the Layout Drawing. **Some features have additional requirements.** Installations outside the United States have different requirements.

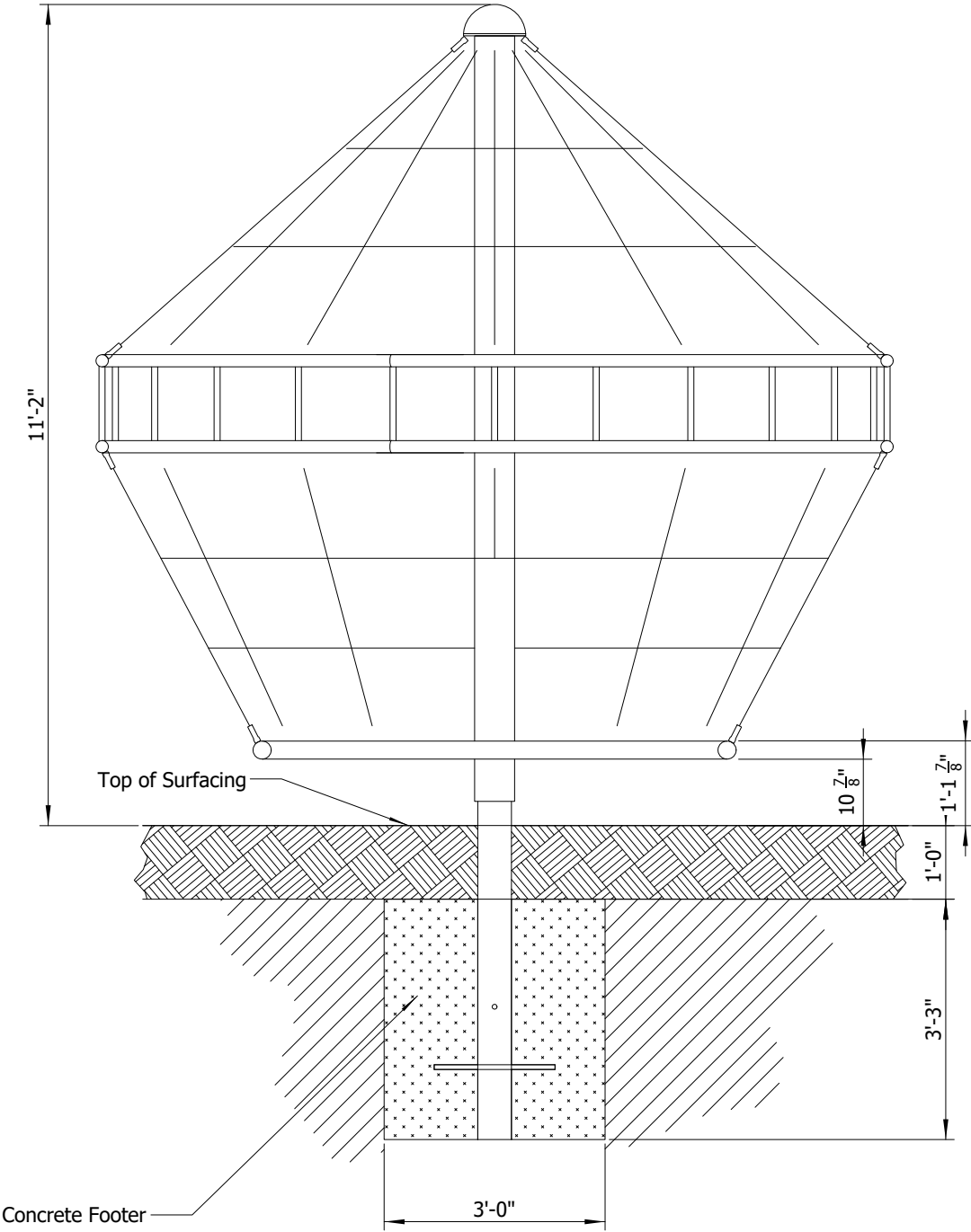
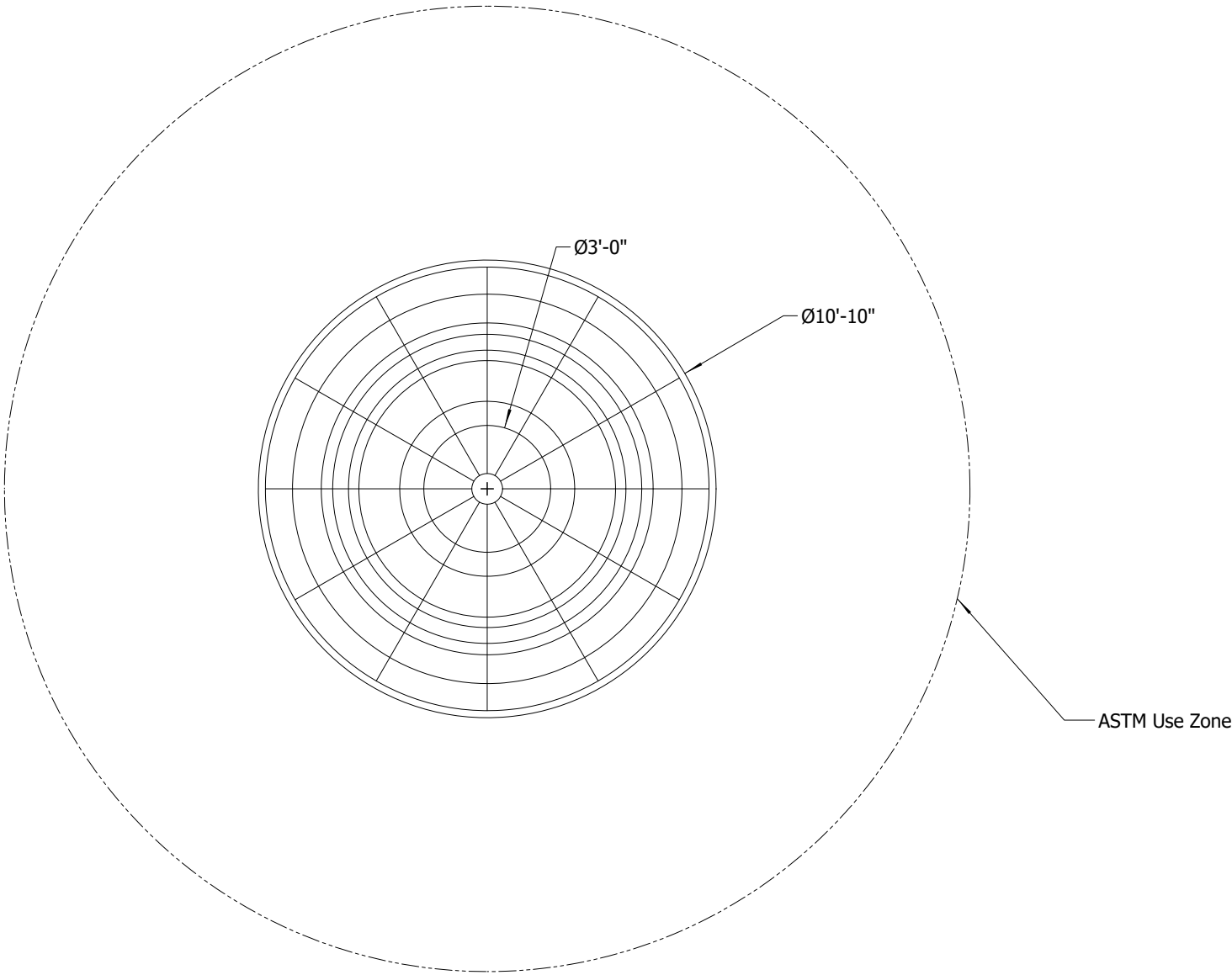


FOOTER DEPTH

Unless otherwise detailed in this manual, this product is designed to be installed with 12\"/>

If unitary surfacing is used, footer depth **must be adjusted** to maintain 12\"/>



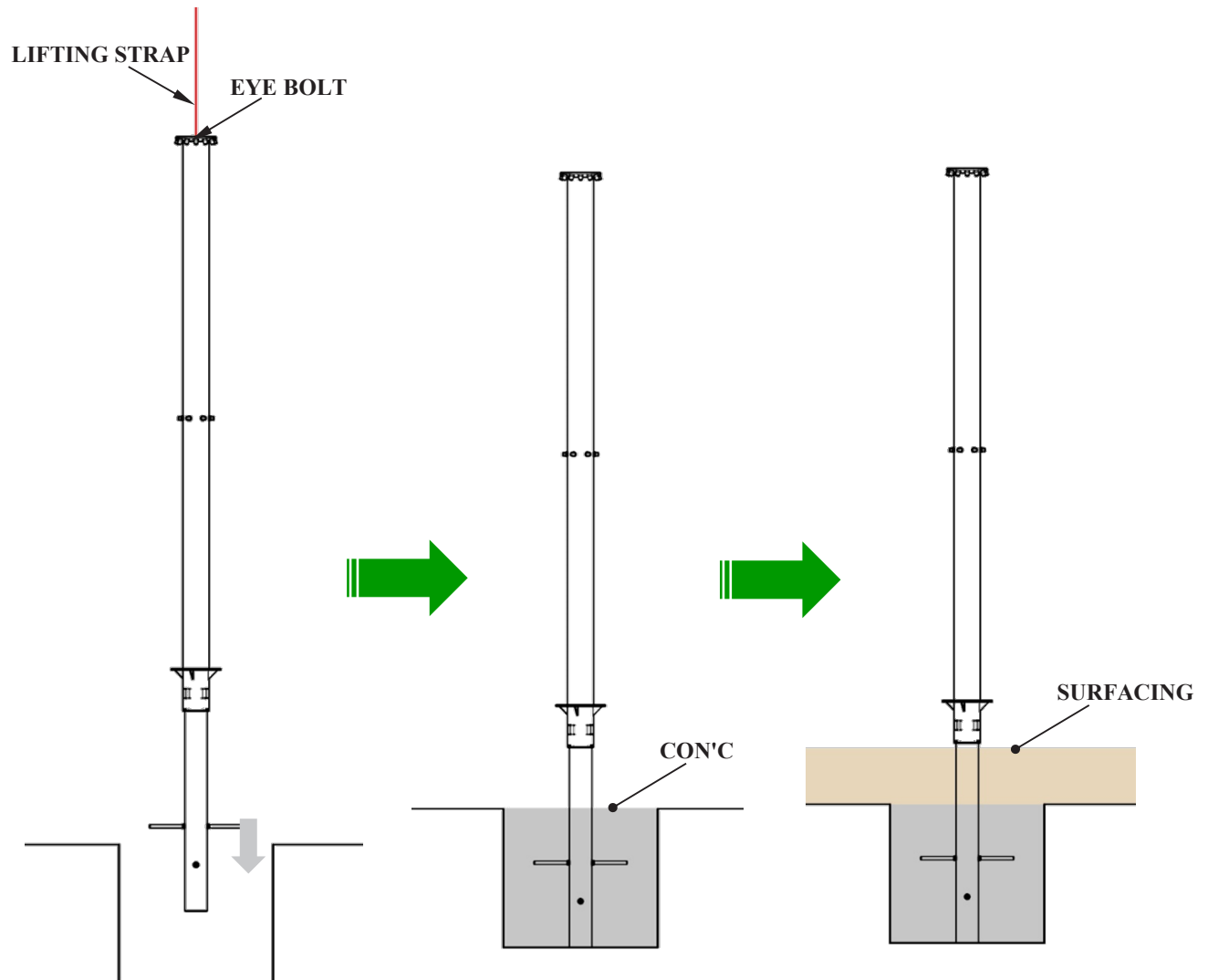
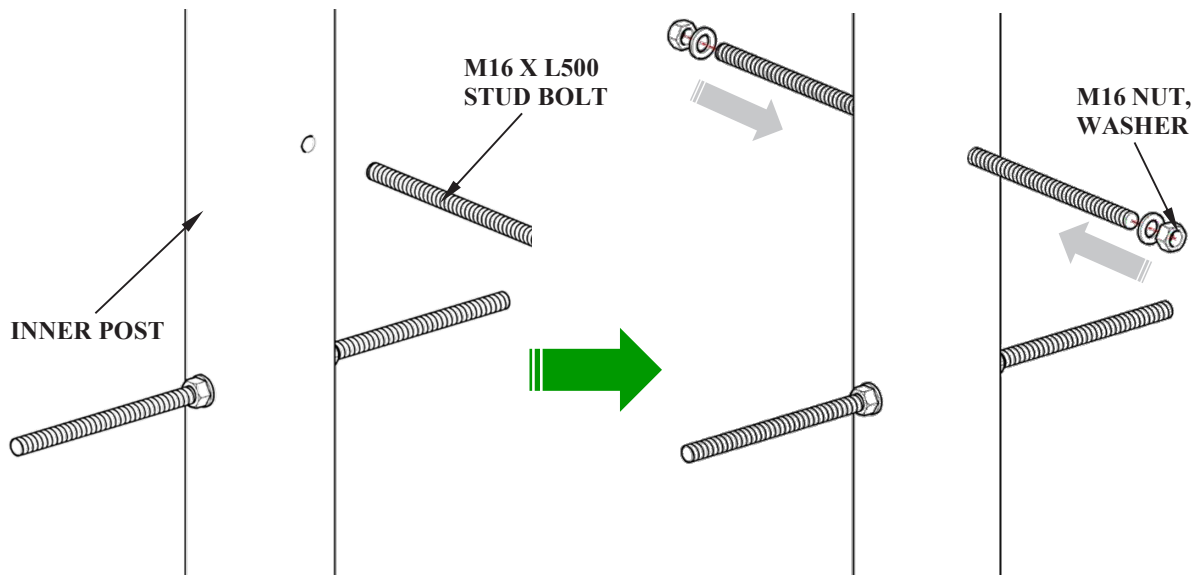


Foundation Construction:

1. Follow Instructions to Assemble Reinforcing Bars
2. Lift Post assembly into hole
3. Level, brace, and fill with Concrete(minimum 3500psi)
4. Wait for Concrete to cure(minimum 24hrs)before continuing Assembly

ASSEMBLY POST AND FOOTER

Note: Threadlocker(supplied by others)must be used on all threaded hardware



OVERVIEW ASSEMBLY PROCEDURE

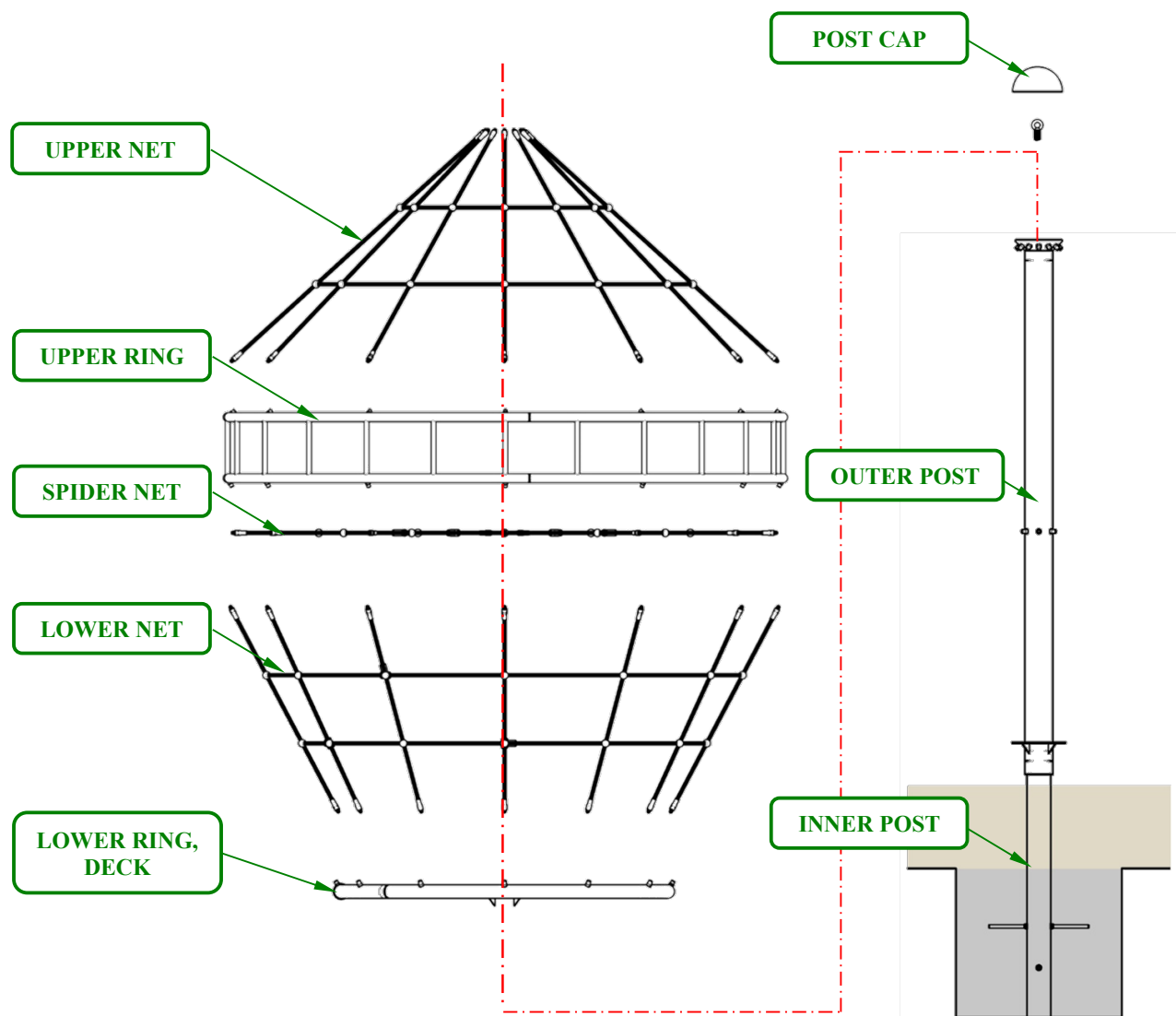
Note: Threadlocker(supplied by others)must be used on all threaded hardware

Overall Assembly

Assemble the parts in the following order:

1. Attach the upper net to the post head
2. Attach the ring to the net
3. Attach the spider net to the ring and the collar
4. Attach the lower net to the ring
5. Temporairially support the lower net by tying it to the middle ring before lifting the assembly
6. Assemble base and angle braces

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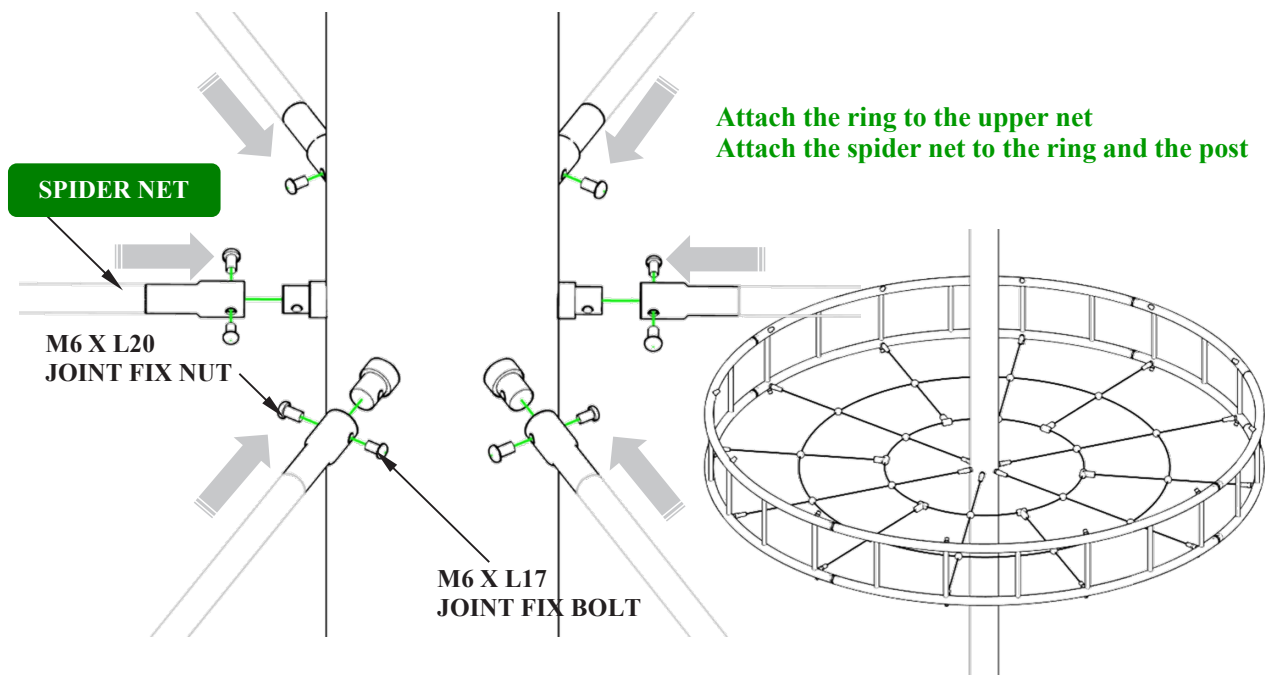
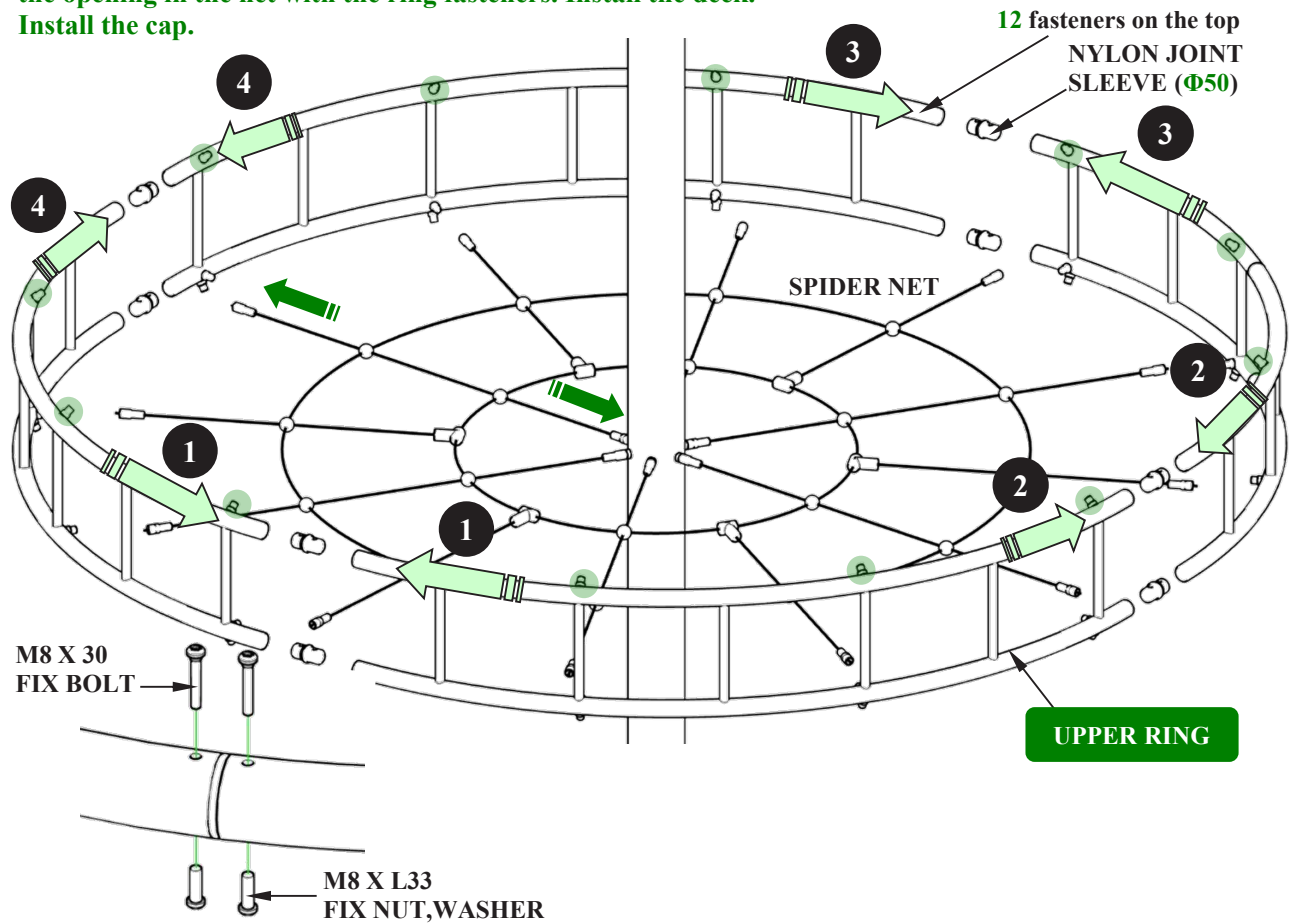


ASSEMBLY

UPPER RING AND SPIDER NET

Note: Threadlocker(supplied by others)must be used on all threaded hardware

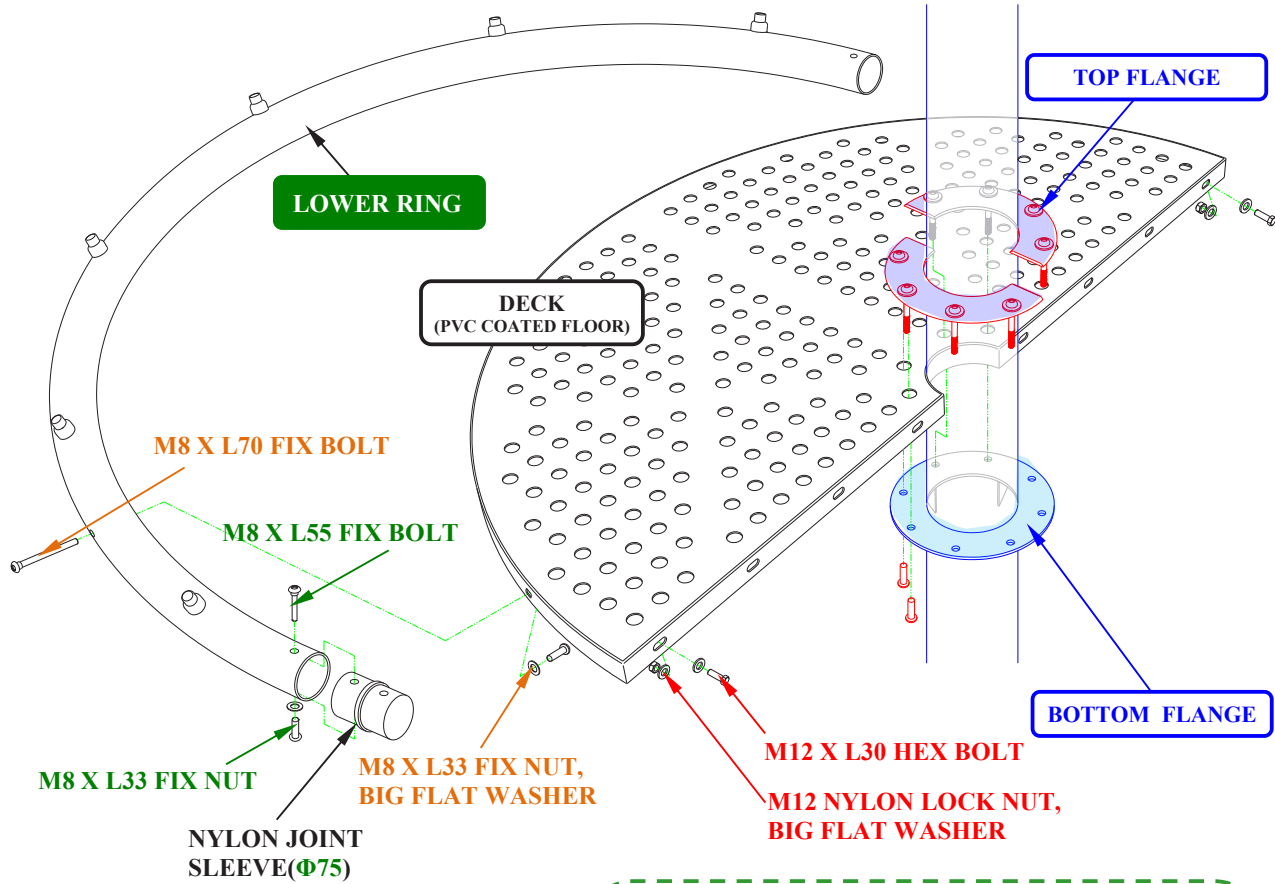
Assemble the rings with the nylon joint.(1+1, 2+2, 3+3, 4+4) Align the opening in the net with the ring fasteners. Install the deck. Install the cap.



ASSEMBLY LOWER RING AND DECK

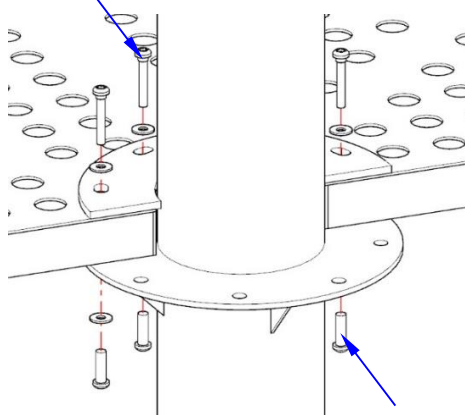
Note: Threadlocker(supplied by others)must be used on all threaded hardware

If A bolt end protrudes beyond the face of the nut more than two full threads, it must be cut off and made free of burrs.



Assemble net in the attach with joint

M8 X L55 FIX BOLT,
BIG FLAT WASHER



M8 X L33 FIX NUT,
BIG FLAT WASHER

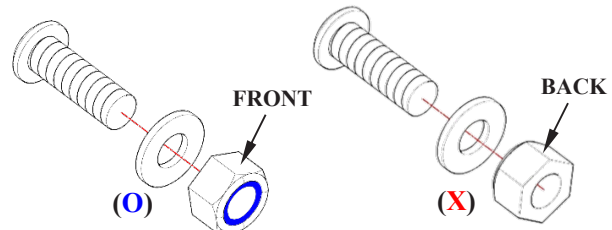
*LOCK NUT DETAIL



FRONT

BACK

※LOCK NUT ASSEMBLY



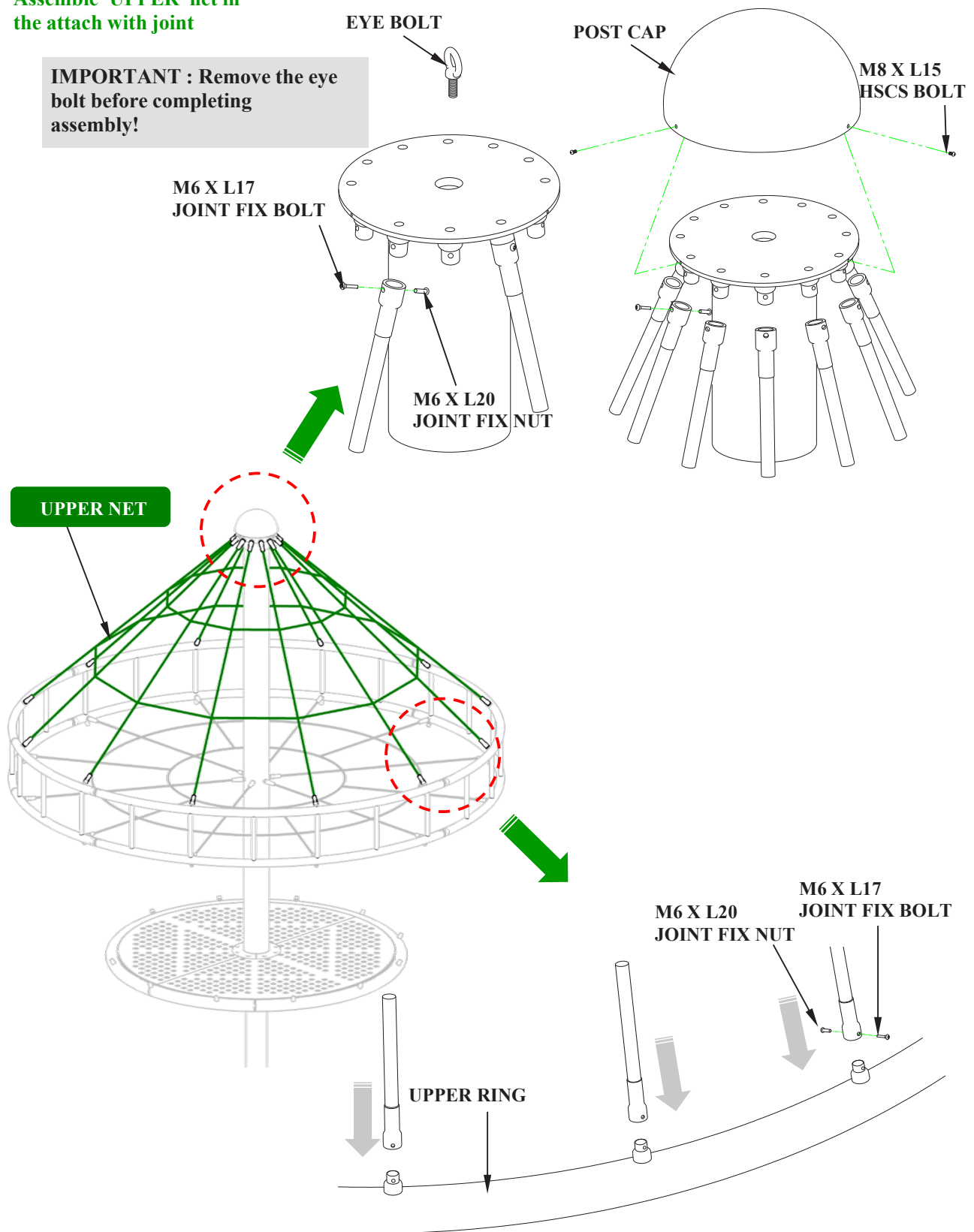
ASSEMBLY

UPPER NET AND POST CAP

Note: Threadlocker(supplied by others)must be used on all threaded hardware

Assemble 'UPPER' net in
the attach with joint

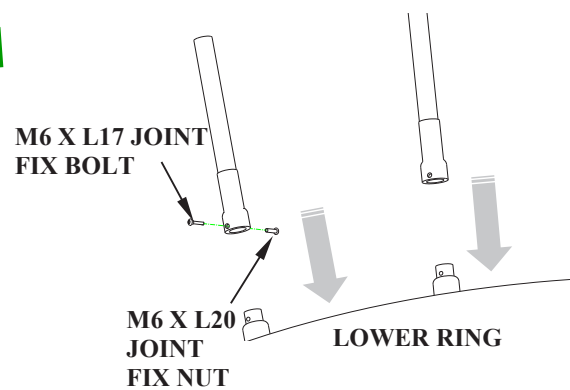
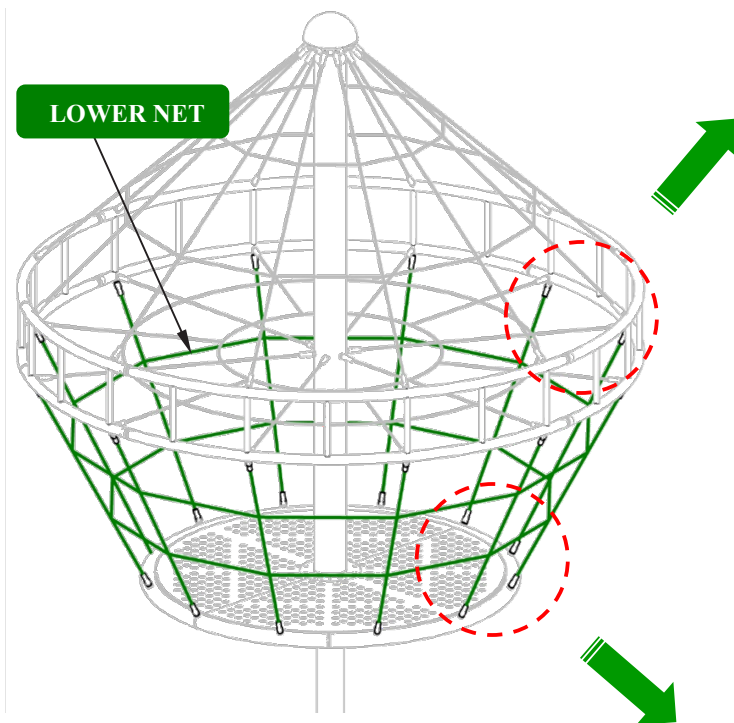
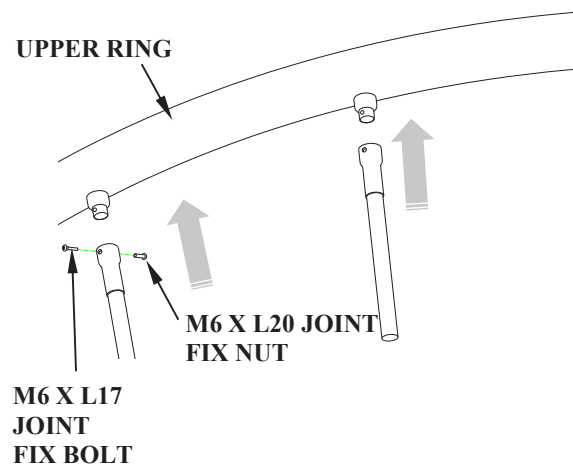
**IMPORTANT : Remove the eye
bolt before completing
assembly!**

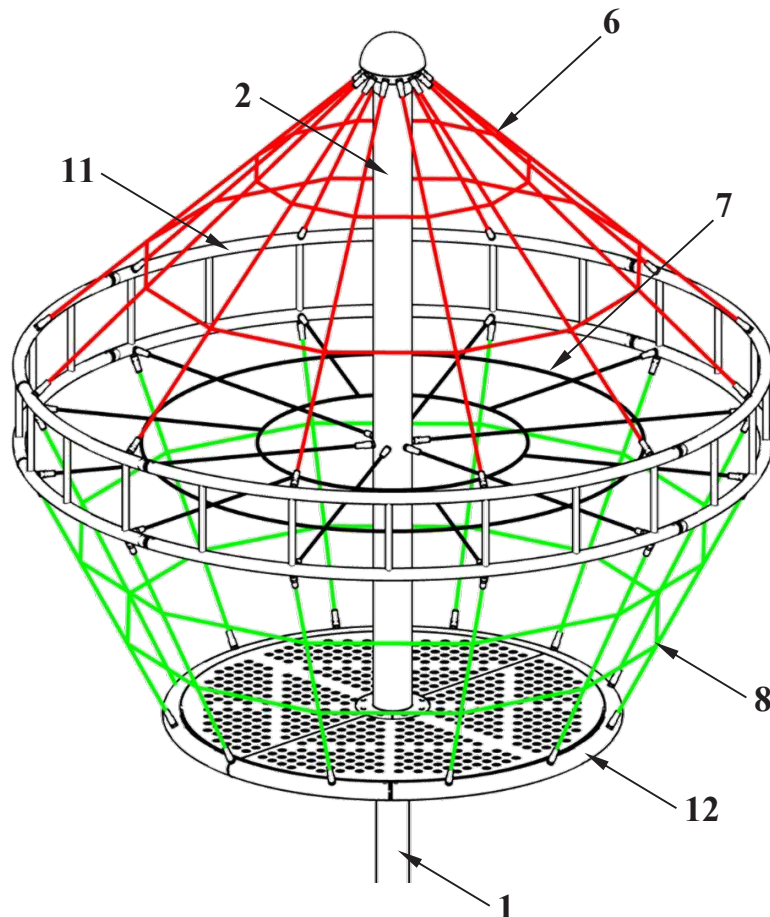
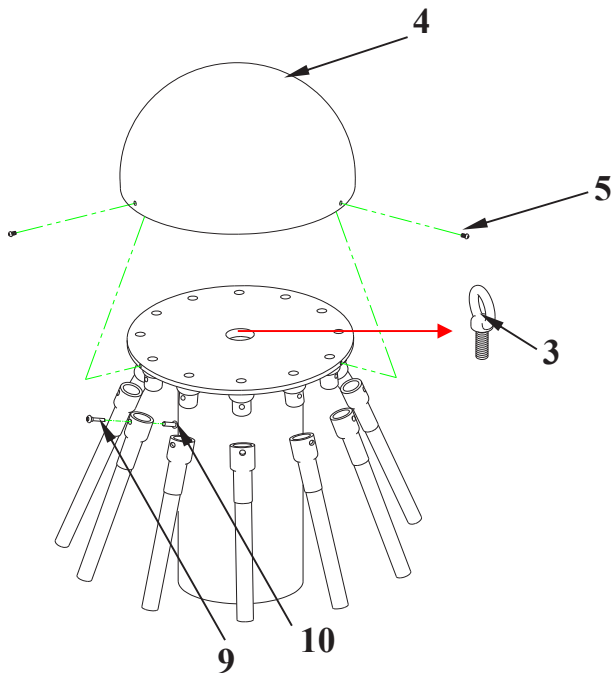


ASSEMBLY LOWER NET

Note: Threadlocker(supplied by others)must be used on all threaded hardware

Assemble 'Lower' net in the attach with joint





- 1: INNER POST
2: OUTER POST
3: EYE BOLT
4: POST CAP
5: M8 X L15 HSCS BOLT

- 6: UPPER NET
7: SPIDER NET
8: LOWER NET
9: M6 X L17 JOINT FIX BOLT
10: M6 X L20 JOINT FIX NUT

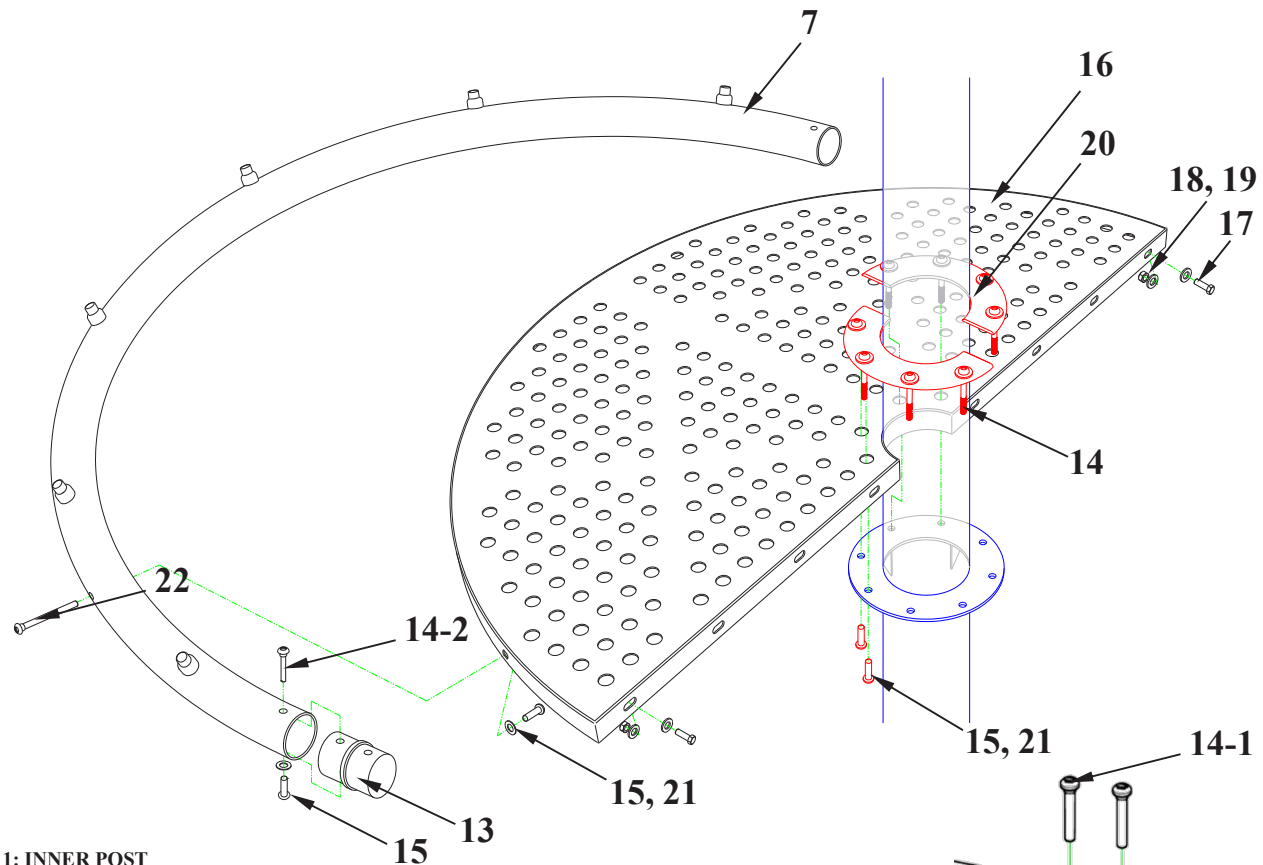
- 11: UPPER RING (Φ3300)
12: LOWER RING (Φ2000)

- 13: NYLON JOINT SLEEVE
14-1: M8 X L30 FIX BOLT
14-2: M8 X L55 FIX BOLT
15: M8 X L33 FIX NUT

- 16: DECK (PVC COATED FLOOR)
17: M12 X L30 HEX BOLT
18: M12 LOCK NUT
19: M12 BIG FLAT WASHER

- 20: TOP FLANGE
21: M10 BIG FLAT WASHER
22: M8 X L70 FIX BOLT

- 23: M16 X L500 STUD BOLT
24: M16 NUT
25: M16 WASHER



1: INNER POST

2: OUTER POST

3: EYE BOLT

4: POST CAP

5: M8 X L15 HSCS BOLT

6: UPPER NET

7: SPIDER NET

8: LOWER NET

9: M6 X L17 JOINT FIX BOLT

10: M6 X L20 JOINT FIX NUT

11: UPPER RING (Φ3300)

12: LOWER RING (Φ2000)

13: NYLON JOINT SLEEVE

14-1: M8 X L30 FIX BOLT

14-2: M8 X L55 FIX BOLT

15: M8 X L33 FIX NUT

16: DECK (PVC COATED FLOOR)

17: M12 X L30 HEX BOLT

18: M12 LOCK NUT

19: M12 BIG FLAT WASHER

20: TOP FLANGE

21: M10 BIG FLAT WASHER

22: M8 X L70 FIX BOLT

23: M16 X L500 STUD BOLT

24: M16 NUT

25: M16 WASHER

AFTER INSTALLATION BEFORE OPENING FOR PLAY, RECOMMENDATIONS

Inspect Equipment for Correct Installation

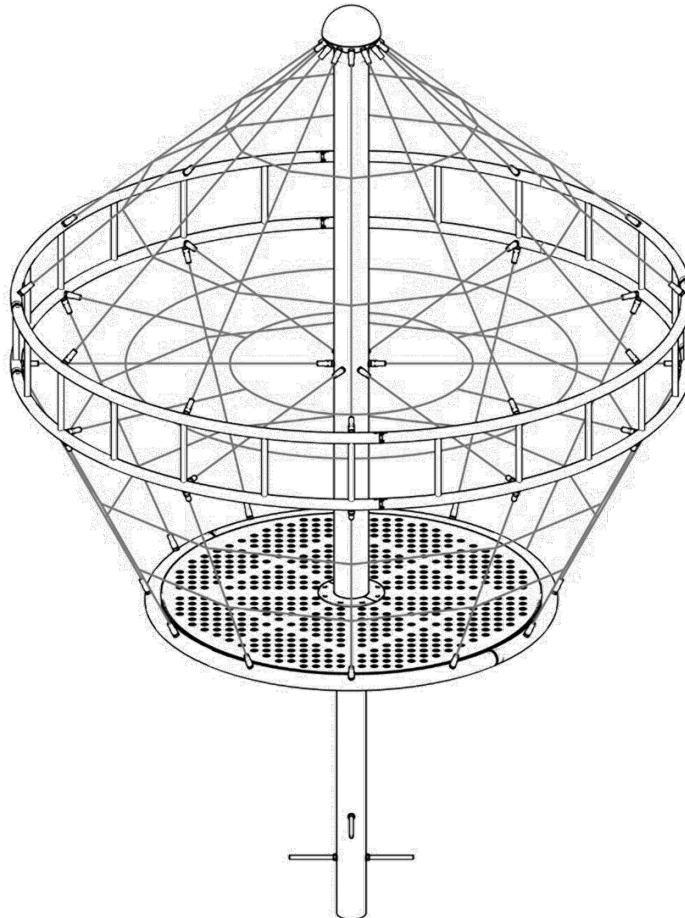
If the equipment has not been installed correctly, do not open for play and take necessary precautions to keep closed until installation is correct, complete and re-inspected.

Protective Surfacing

Make sure appropriate playground surfacing has been installed to meet applicable standards.

Remove All Assembly Aids

Please make sure that all tools and assembly aids have been removed from the playing area before opening for play.



This equipment should be installed, inspected for proper installation, maintained and operated in accordance with applicable safety standards.

Regular maintenance is necessary on all park and playground equipment, including the protective surfacing. Proper maintenance extends equipment life. Maintenance of play environments requires commitment from dedicated and trained individuals with some mechanical ability and common sense.

With regards to overall safety, if you ever feel a piece of equipment or portion of the protective surfacing is broken or dangerous, immediately take the equipment out of service. If necessary, post personnel or fence the equipment to prevent use until the necessary repairs can be made. This is an important precaution that can potentially prevent an injury.

Maintenance Inspection – Frequency and Process

Because play equipment and surfacing are subject to changes from use, abuse, and climate, they must be inspected on a regular basis. The frequency of inspection will be determined by many factors including equipment age, use, and materials, and external factors like the age of the users, climate, and vandalism. Regardless of site-specific attributes of the playground, two types of inspections should be performed on all playgrounds: low frequency and high frequency.

Low Frequency Inspections

Often performed quarterly or semi-annually, low frequency inspections are in-depth investigations of the equipment and surfacing looking for wear and tear. This inspection requires a staff member with mechanical knowledge and extensive knowledge about play equipment and surfacing standards. During or immediately after the inspection, staff should do preventive maintenance and repairs and/or remove damaged equipment to remedy problems discovered in the inspection.

High Frequency Inspections

Often performed daily or weekly, high frequency inspections look at frequently changing conditions caused by use, weather, and/or vandalism. During a high frequency inspection, staff checks and corrects playground conditions such as loose-fill surfacing depths, sanitation issues, and the presence of trash and debris. If any hazards are discovered, staff should follow school or agency procedures such as completing documentation, taking the area out of use, and/or correcting the problem.

Loose hardware

Loose hardware can cause quality problems and put safety at risk. Therefore, loose hardware should always be tightened, and checks carried out to ensure that there are no missing parts.

Identifying replacement parts

All replacement parts are listed in the parts list. The parts list follows the installation requirements.

Actions to be taken during the break-in period

No later than 2 weeks after assembly, all hardware connections should be checked and tightened if necessary. One of the most important factors in proper maintenance is maintaining proper net tension. Net re-tensioning will be required after the first 60-90 days of use and then must be checked again on an annual basis.

Re-tensioning Nets with Connector Balls with Eyebolts

Remove the connector cap. Loosen the outside nut on the eyebolt, then tighten the net by tightening the inside nut. It is very important to adjust the overall net tension evenly by working each connection in a balanced progression. Do not over tighten one eyebolt and skew the net or put too much strain on one portion of the net.

Re-tensioning Nets with Turnbuckles

First prepare the turnbuckle by temporarily removing the loose fill material or by removing the poured-in-place box housing enclosure. With a large wrench, turn the center part of the turnbuckle to tighten. If the turnbuckle is at its maximum tension, it may be necessary to loosen the turnbuckle and reposition the attachment anchor plated. It is very important to adjust the overall net tension evenly by working each turnbuckle in a balanced progression. Do not over tighten one turnbuckle and skew the net or put too much strain on one portion of the net.

Maintenance of protective surfaces

Surfaces providing fall protection must also be maintained regularly. It is particularly important to maintain the correct level of loose surface material and add more if necessary (refer to applicable standards).

Damage

Damaged equipment must be repaired as soon as possible. If serious defects that affect the safety and cannot be repaired immediately, the equipment then must be closed to prevent further use.



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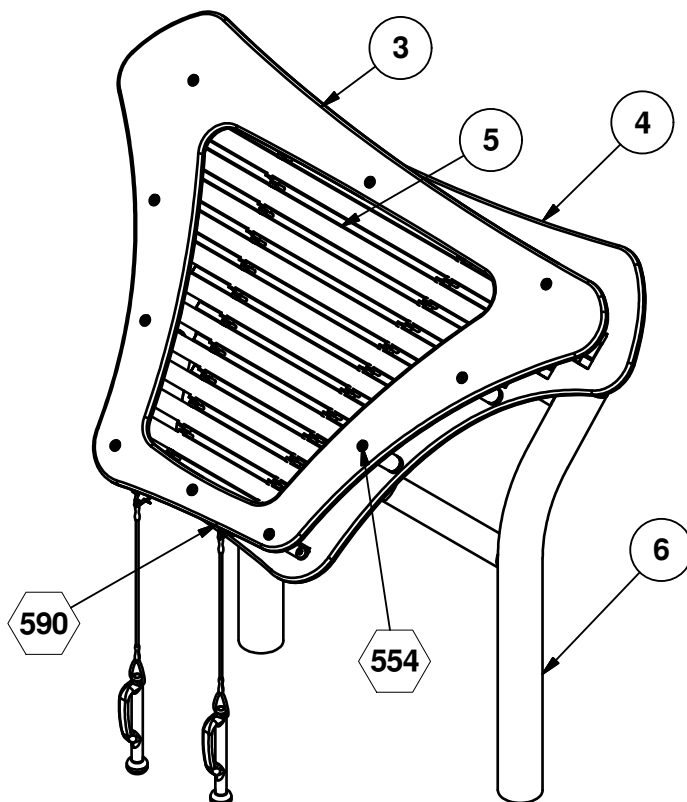
CANTATA CHIMES

ISSUED/REVISED: 4/12/2021

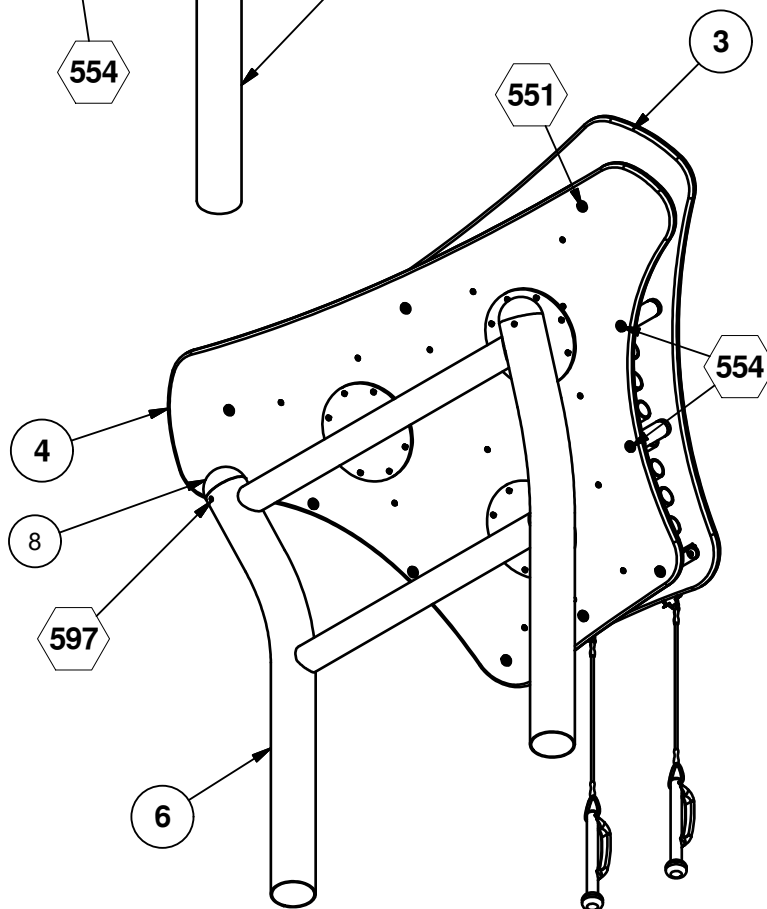
- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE



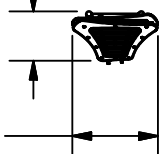
NOTE:
LOWER PRODUCT 0'-8" [20.32 cm]
IF INTENDED SPECIFICALLY
FOR USE BY 2-5 AGE GROUP



NOTE: MALLETS ARE INCLUDED WITH
CANTATA INSTRUMENT INSERT
(313936).



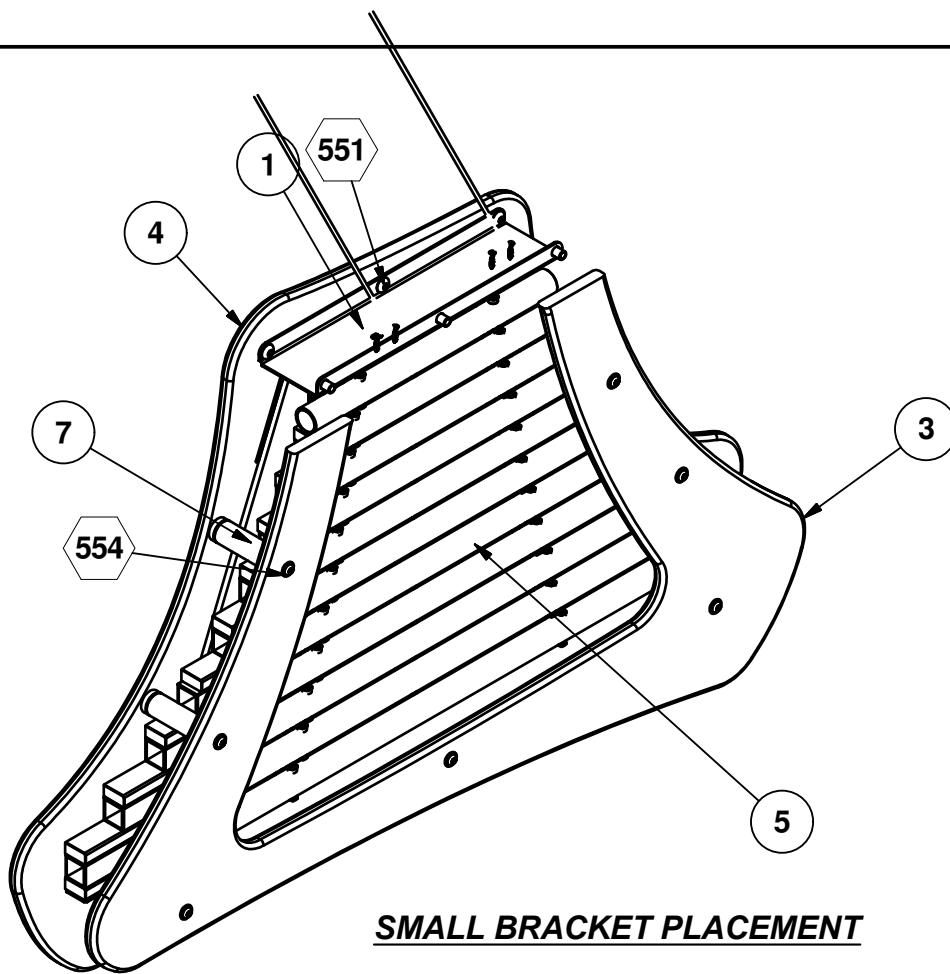
2'-6 13/16" [78.23 cm]



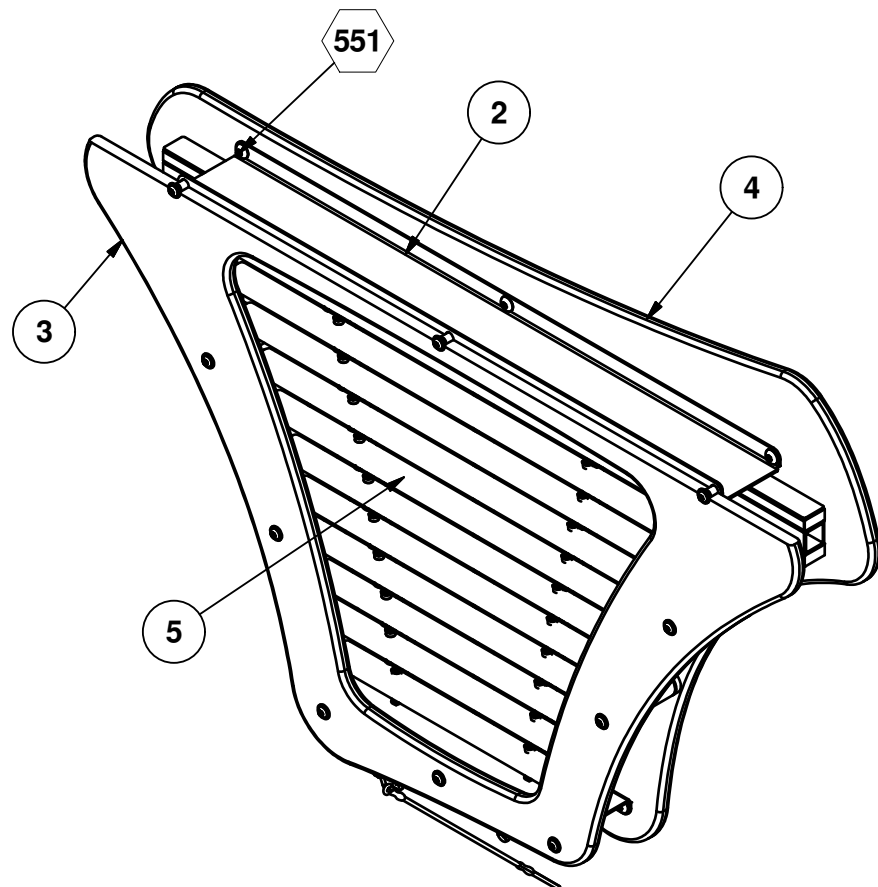
4'-5 1/2" [135.89 cm]

TOP VIEW

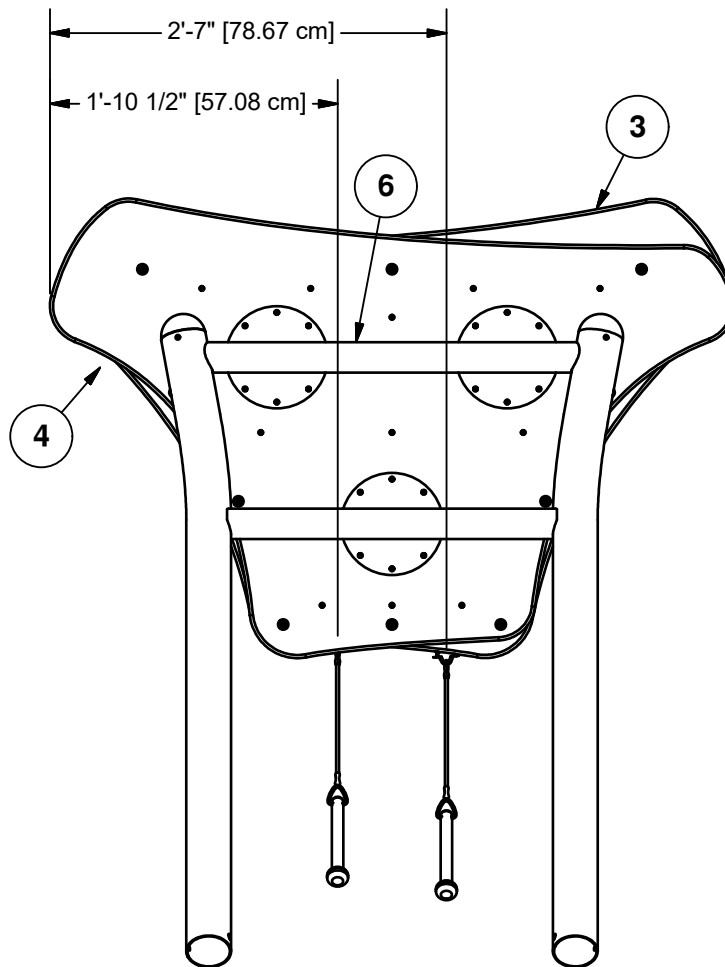
ASSEMBLY DRAWING



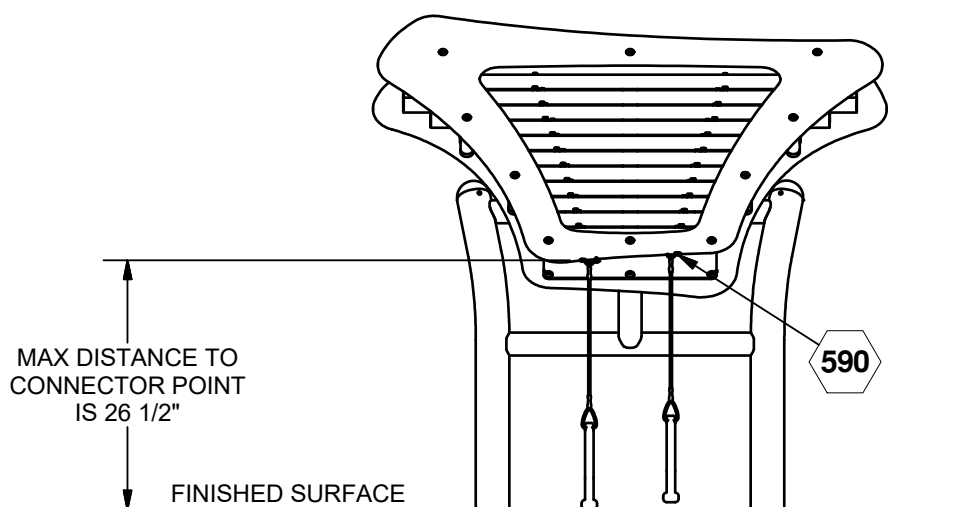
SMALL BRACKET PLACEMENT



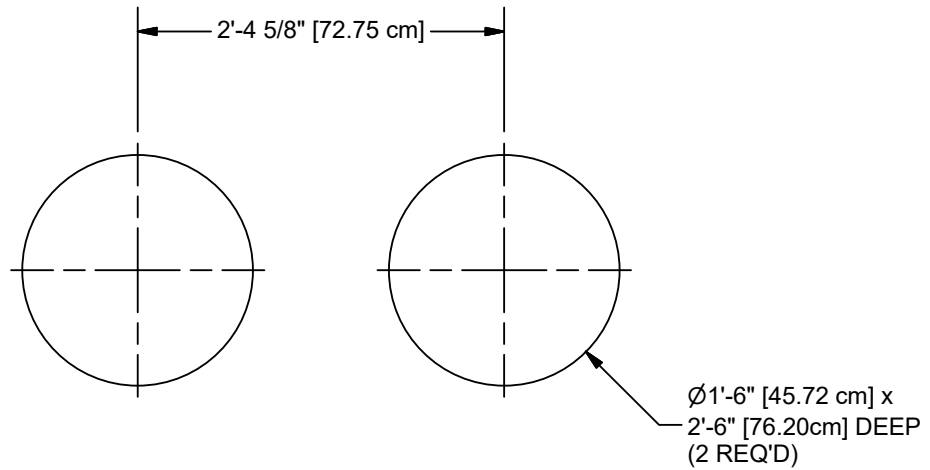
LONG BRACKET PLACEMENT



MALLET PLACEMENT VIEW



MALLET CONNECTION POINT VIEW



NOTE: ALL HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

GROUND PLAN

CONCRETE REQUIRED
.20 CUBIC YARDS
{.15 CUBIC METERS}

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	SMALL BRACKET PLATE	1	313943
2	LONG BRACKET PLATE	1	313946
3	CANTATA FRONT HDPE PANEL	1	313937
4	CANTATA BACK HDPE PANEL	1	212777
5	CANTATA INSTRUMENT INSERT	1	313936
6	CANTATA SUPPORT ASSEMBLY	1	313948
7	CANTATA SPACER	4	313940
8	3 1/2" DOME CAP	2	212995
	HARDWARE COMPLETE	1	313971
	3/8" x 3/4" P.B.H.C.S. w/PATCH	12	812052*
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	8	812053*
	3/8" BARREL NUT	12	804804*
	3/8" FLAT WASHER	20	817410*
	3/16" x 13/32" DRIVE RIVET	4	805366*
	#10 x 1" SCREW	28	815506*
	#10 x 1 1/4" SHEET METAL SCREW	15	810069*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

**Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.**

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local condition.

1. Locate and dig footing holes according to Ground Plan. See Detail 032 for dimensions and notes regarding surfacing, etc
2. Attach Cantata Chimes Back Panel to Cantata Support Assembly. See Detail 553. Attach Caps to Support Assembly using Detail 597.
3. Attach Cantata Chimes Instrument Insert to Cantata Chimes Back Panel. See Detail 550.
4. Attach Small Bracket Plate and Long Bracket Plate to Cantata Chimes Back Panel and Cantata Chimes Front HDPE Panel. See Detail 551.
5. Attach Cantata Chimes Spacer to Cantata Chimes Back Panel and Cantata Chimes Front HDPE Panel. See Detail 554.
6. Attach Mallet Package to Cantata Front Panel, Drill Pilot Hole using Detail 590 **NOTE:** Drill 1/8" pilot holes using bracket as a template and place Mallets so that each one reaches all the chimes. **NOTE:** Make sure to install mallets no higher than 26 1/2" from top of connection point. **NOTE:** Refer to *Mallet Placement View for placement*.
7. Plumb and level the entire assembly and tighten all fasteners.
8. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
9. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

SPECIFICATIONS

SMALL BRACKET PLATE: Shall be fabricated from 11 Ga. 18" x 1/8" thick stainless steel. The Small Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

LONG BRACKET PLATE: Shall be fabricated from 11 Ga. 40" x 1/8" thick stainless steel. The Long Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

CANTATA CHIMES FRONT HDPE PANEL AND CANTATA CHIMES BACK PANEL: Shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

CANTATA CHIMES INSTRUMENT INSERT: Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet. Mallets shall be an all plastic construction with stainless steel hardware.

CANTATA CHIMES SUPPORT ASSEMBLY: Shall be an all welded construction fabricated from 2-3/8" O.D. x .095" (13 gauge) wall galvanized steel tubing, 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing, and 1/4" thick laser cut plate. The Cantata Chimes Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

CANTATA CHIMES SPACER: Shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing and threaded insert. The Cantata Chimes shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

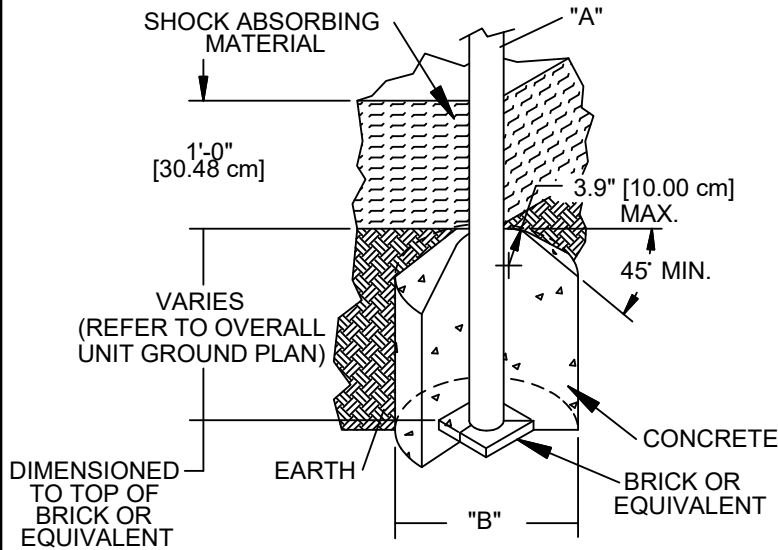
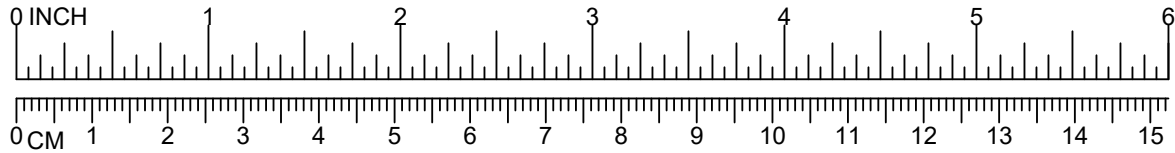
DETAILS -for- 3256

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

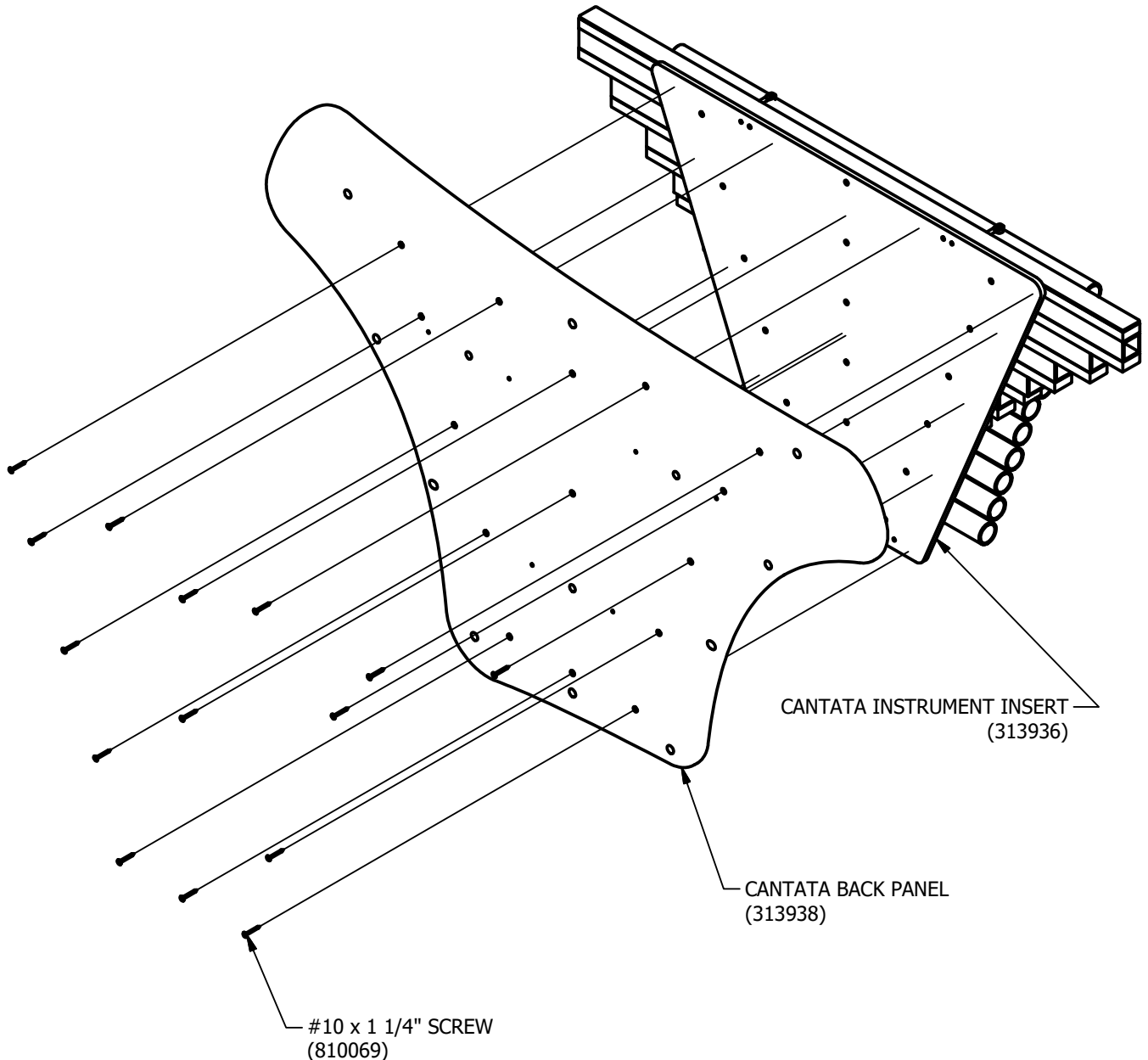
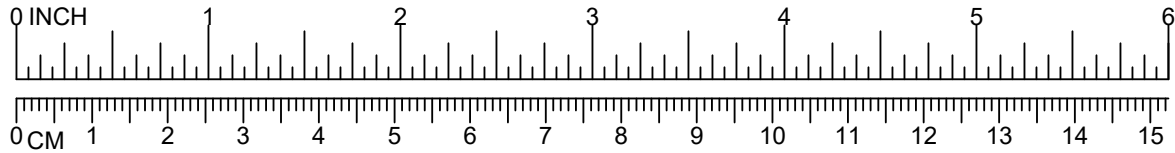
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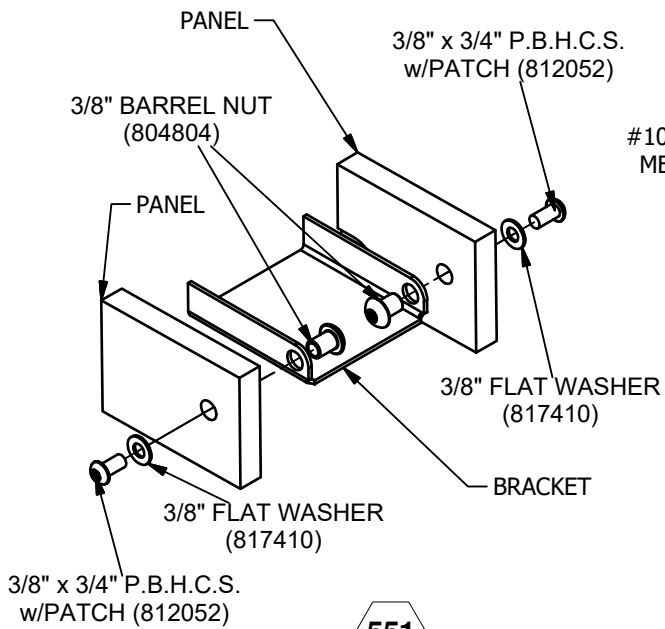
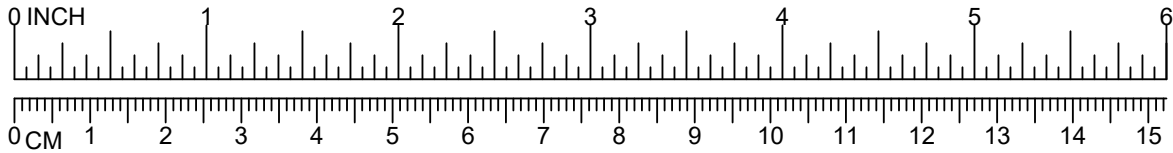
DETAILS -for- 3256

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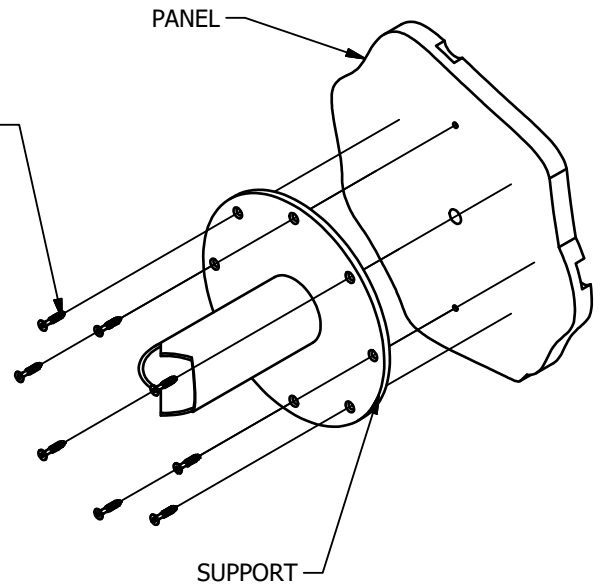
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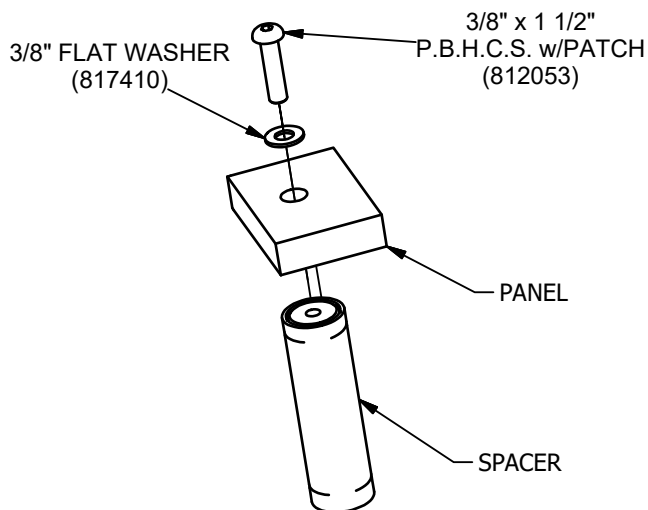
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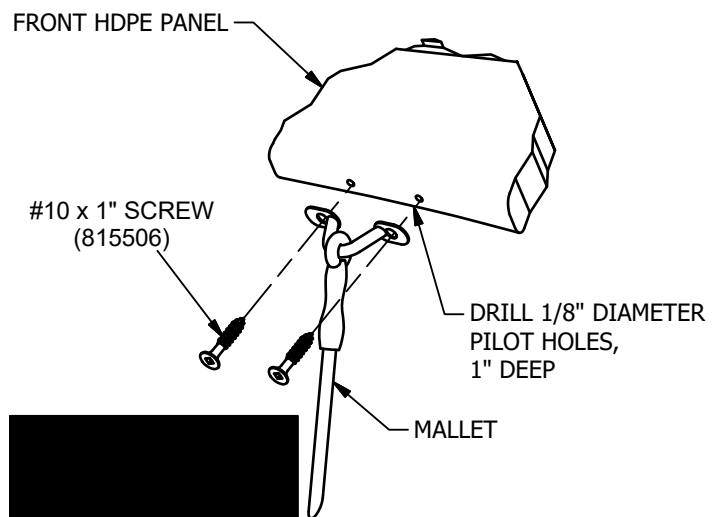
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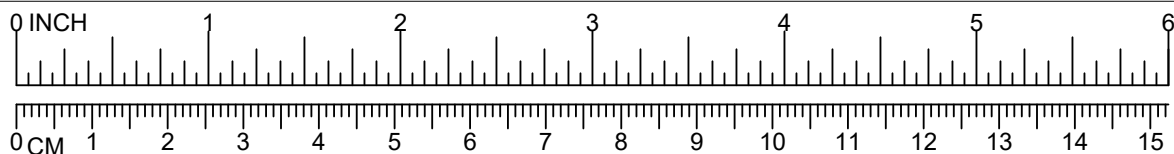
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3/16" x 13/32" DRIVE
RIVET (805366)

UPRIGHT

CAP

USING EXISTING HOLES IN
PIPE AS TEMPLATE, DRILL Ø3/16"
HOLES IN CAP AND INSTALL USING
DRIVE RIVETS.

597



A PLAYCORE Company

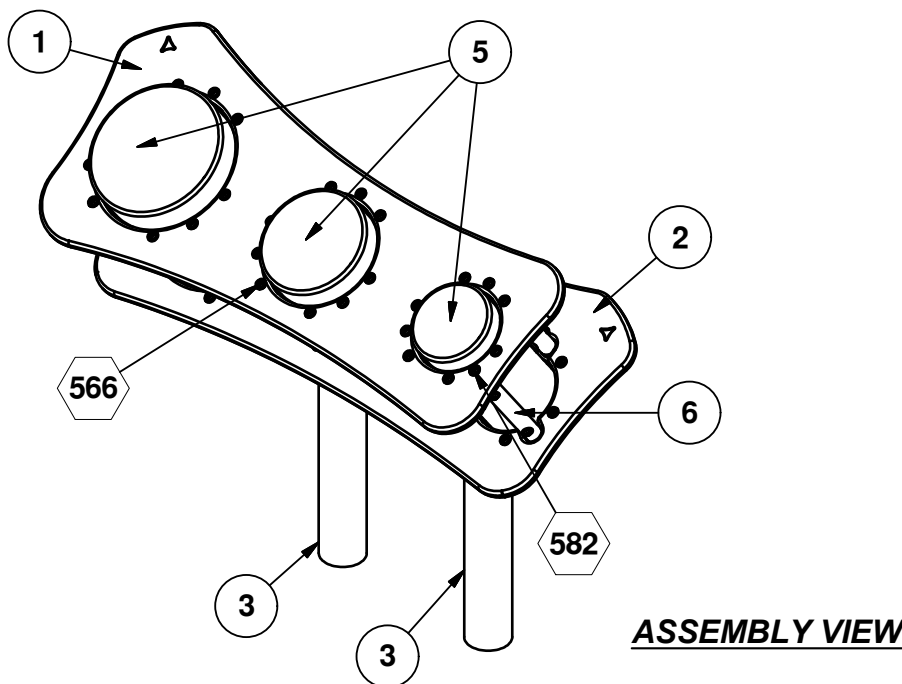
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3259

CONCERT TRIO

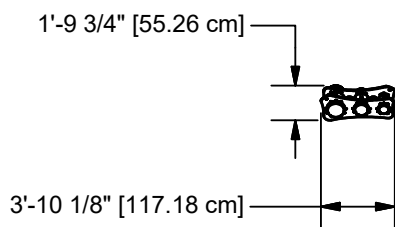
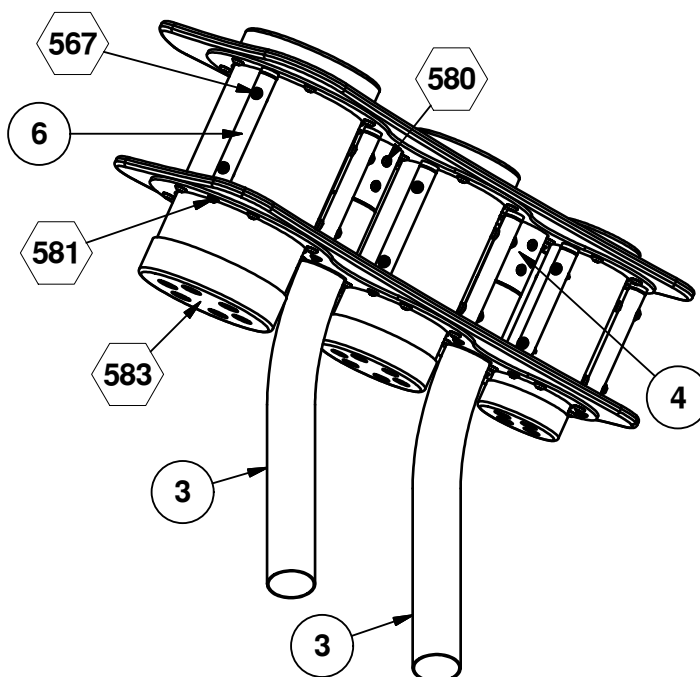
ISSUED/REVISED: 10/4/2017

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE

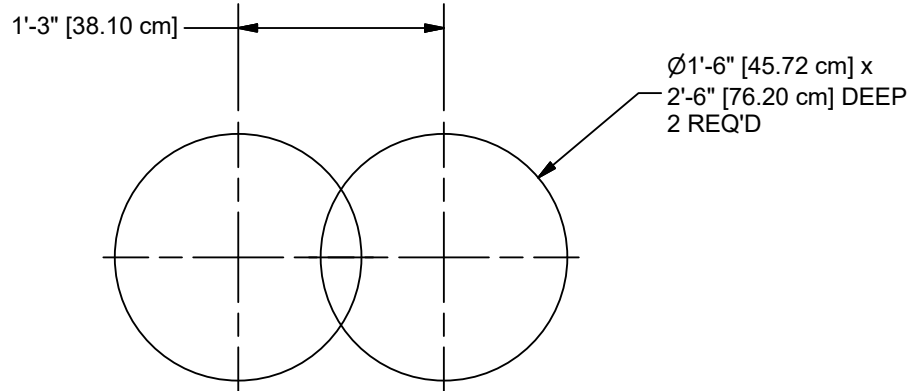


ASSEMBLY VIEW

NOTE:
LOWER PRODUCT 0'-8" [20.32 cm]
IF INTENDED SPECIFICALLY
FOR USE BY 2-5 AGE GROUP



TOP VIEW



NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

GROUND PLAN

CONCRETE REQUIRED
.20 CUBIC YARDS
[.15 CUBIC METERS]

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	CONCERT TRIO FRONT HDPE PANEL	1	314066
2	CONCERT TRIO BACK HDPE PANEL	1	212793
3	CONCERT TRIO UPRIGHT SUPPORT	1	314065
4	CONCERT TRIO RING ASSEMBLY	1	314062
5	DRUM PKG. (SET OF THREE)	1	314097
6	SPACER WITH INSERTS	9	314057
	HARDWARE COMPLETE	1	314070
	3/8" x 3/4" P.B.H.C.S. w/PATCH	36	812052*
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	18	812053*
	3/8" x 2 1/2" P.B.H.C.S. w/PATCH	18	812057*
	3/8" x 3 1/4" P.B.H.C.S. w/PATCH	4	812060*
	3/8" FLAT WASHER	72	817410*
	3/8" BARREL NUT	40	804804*
	3/8" HEX NUT	18	804053*
	3/8" LOCK WASHER	22	817334*
	3/8" PLASTIC SPACER	36	817613*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc.
2. Attach Concert Trio Back HDPE Panel to Concert Trio Support Assembly. See Detail 566. **NOTE:** *Rotate panel so that the reference arrow is face up in the top right corner.*
3. Attach Spacer with Inserts to Concert Trio Upright Support. See Detail 581. **NOTE:** *Do not tighten connection until entire assembly is complete. Rotate Spacers so that the holes are orientated toward the center hole for the drum.*
4. Attach Concert Trio Ring Assembly to Concert Trio Upright Support. See Detail 580.
5. Attach Concert Trio Front HDPE Panel to Concert Trio Ring Assembly. See Detail 566. **NOTE:** *Rotate panel so that the reference arrow is face up in the top left corner.*
6. Attach Concert Trio Ring Assembly and Concert Trio Front HDPE Panel to Spacer with Inserts. See Detail 582.
7. Insert Concert Trio 6, Concert Trio 8, and Concert Trio 10 (included in Concert Trio Drum Package) into appropriate hole for each drum. Place the open end toward ground and allow the top to rest on the Concert Trio Support Assembly. Align each Spacer with Inserts so that the holes face each drum and field drill 3/8" hole thru each drum. Attach Concert Trio to Spacers. See Detail 567.
8. Plumb and level the entire assembly and tighten all fasteners
9. Attach bottom cover for Concert Trio 6, Concert Trio 8, and Concert Trio 10 using supplied adhesive. See Detail 583.
10. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
11. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

SPECIFICATIONS

CONCERT TRIO FRONT HDPE PANEL AND CONCERT TRIO BACK HDPE PANEL:

Shall be 3/4" thick high-density polyethylene.

CONCERT TRIO 6, CONCERT TRIO 8, AND CONCERT TRIO 10:

Shall be constructed of 6" plastic pipe, 8", and 10" plastic pipe, and molded plastic lid.

CONCERT TRIO RING ASSEMBLY:

Shall be an all welded construction fabricated from 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and 1/4" thick laser cut steel. The Concert Trio Ring Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

CONCERT TRIO UPRIGHT SUPPORT:

Shall be an all welded construction fabricated from 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and 1/4" thick laser cut steel. The Concert Trio Upright Support shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

SPACER WITH INSERTS:

Shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing and 1.120" threaded insert. The Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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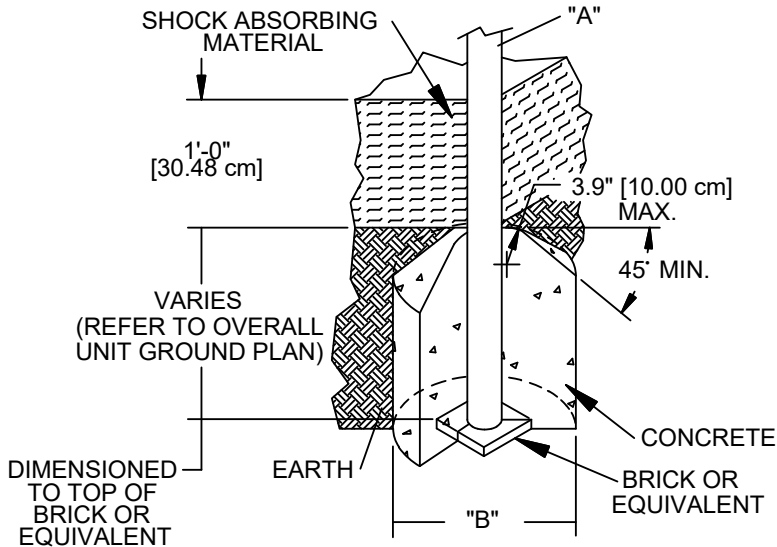
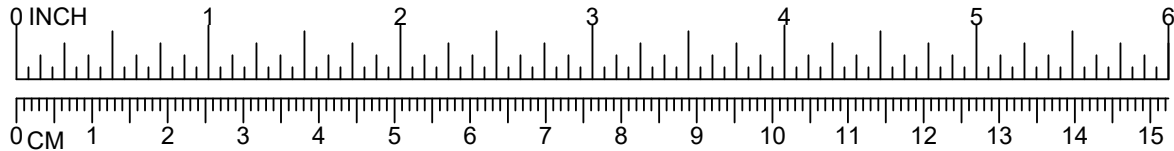
DETAILS -for- 3259

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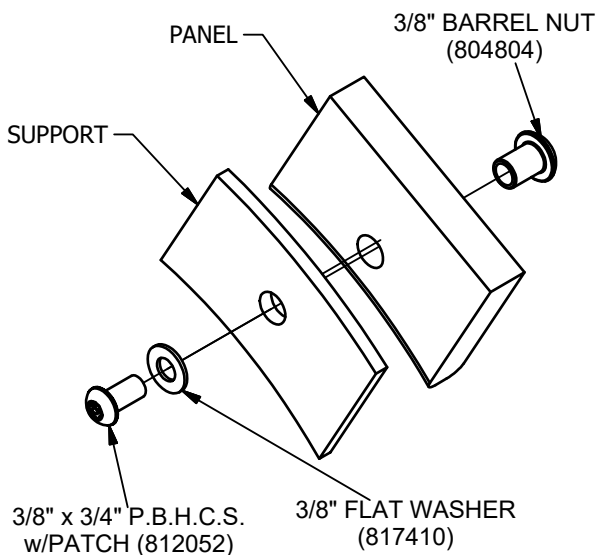
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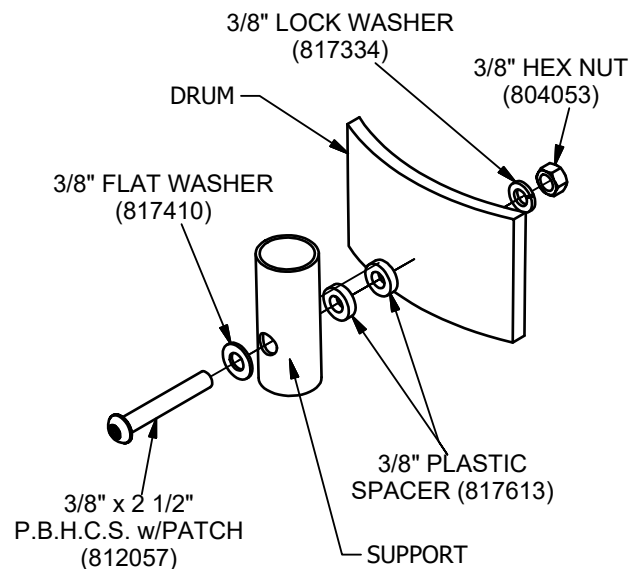
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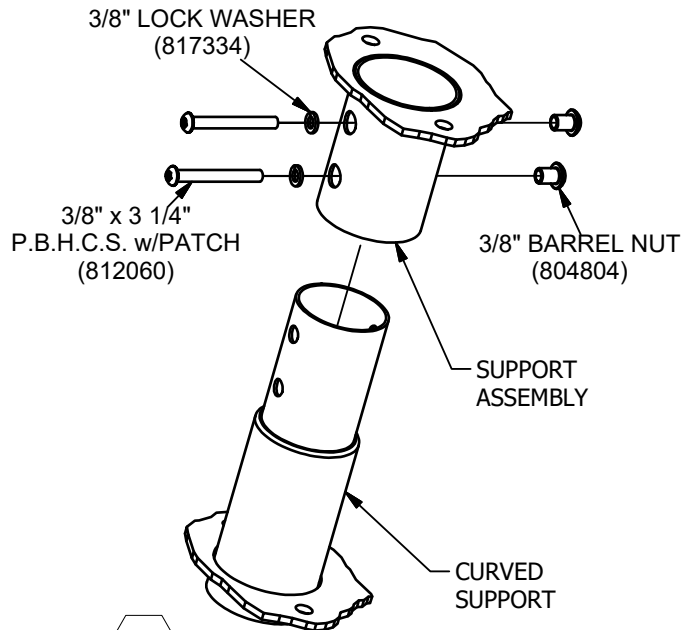
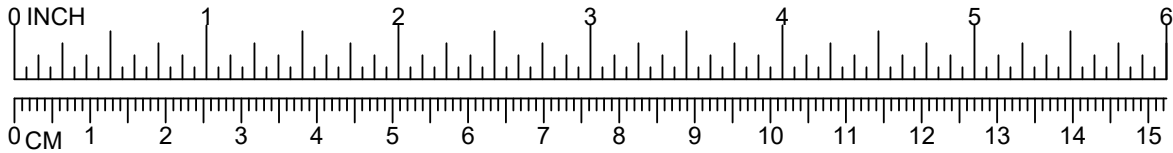
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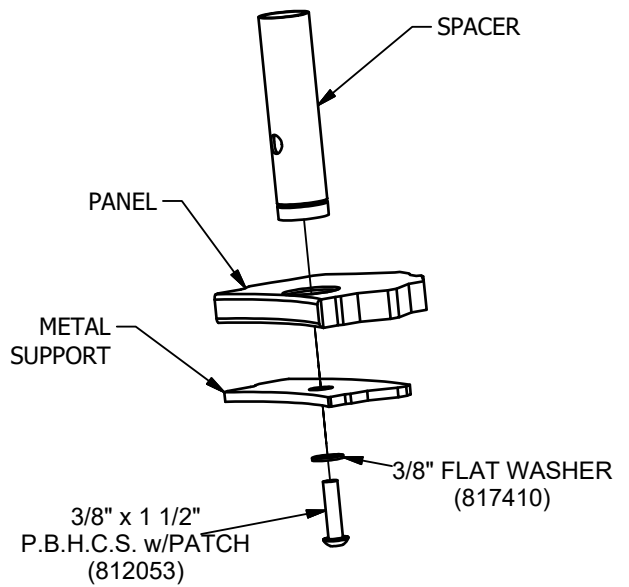
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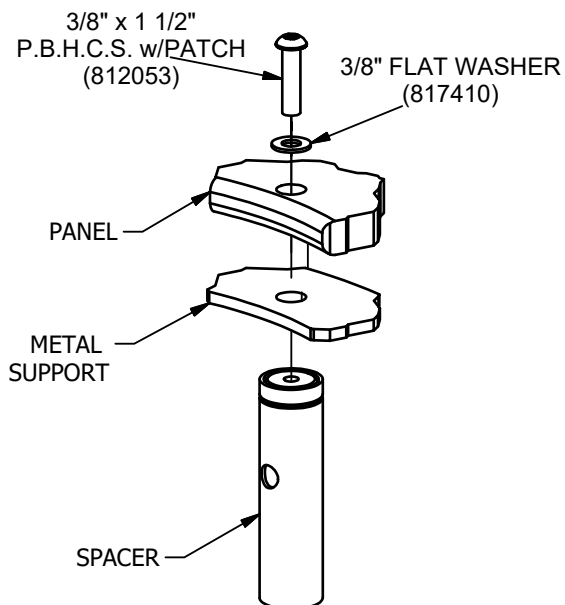
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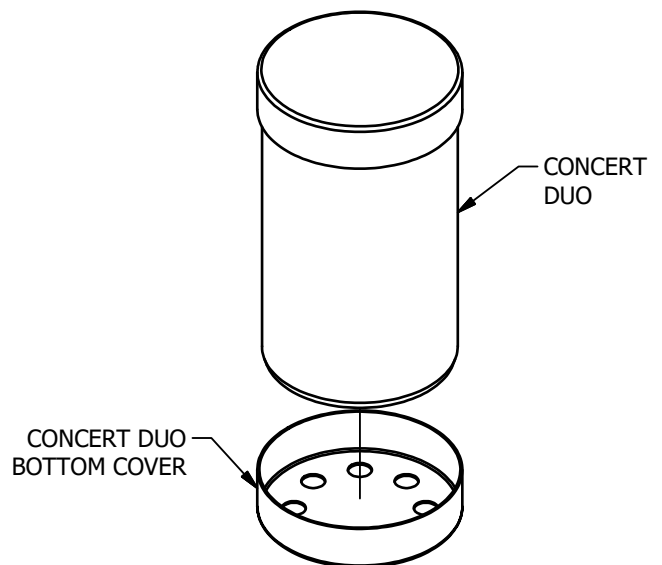
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MELODY CHIMES

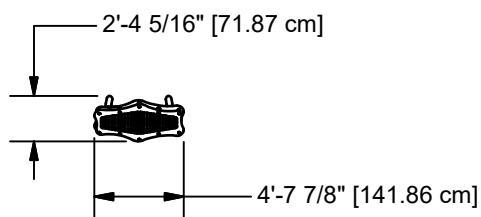
ISSUED/REVISED: 1/10/2020

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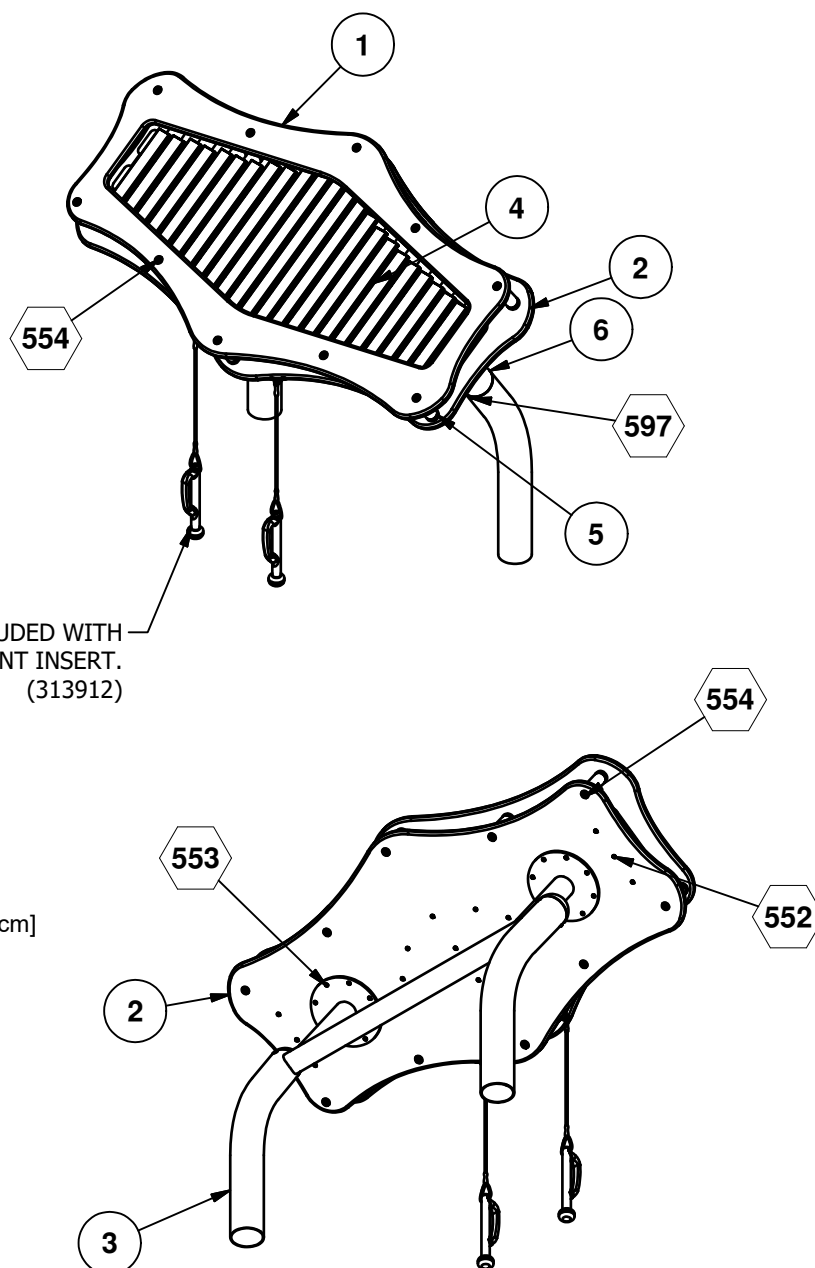


NOTE:
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IF INTENDED SPECIFICALLY
FOR USE BY 2-5 AGE GROUP

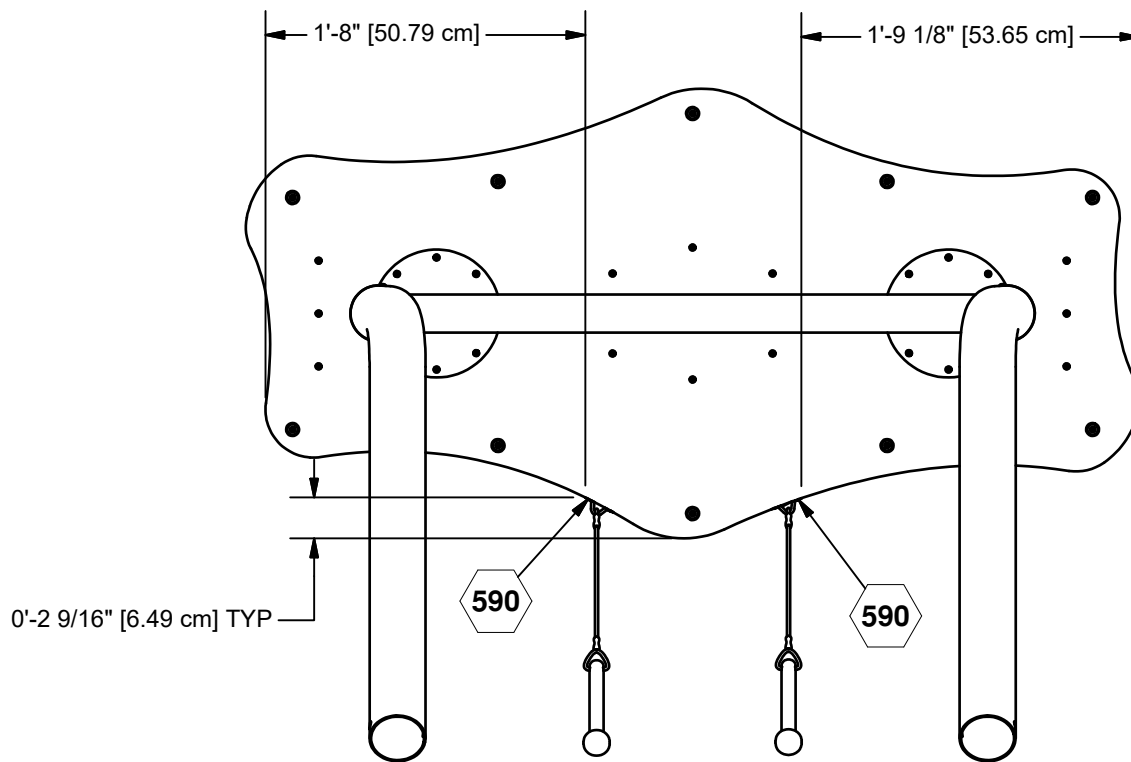
NOTE: MALLETS ARE INCLUDED WITH
MELODY CHIMES INSTRUMENT INSERT.
(313912)



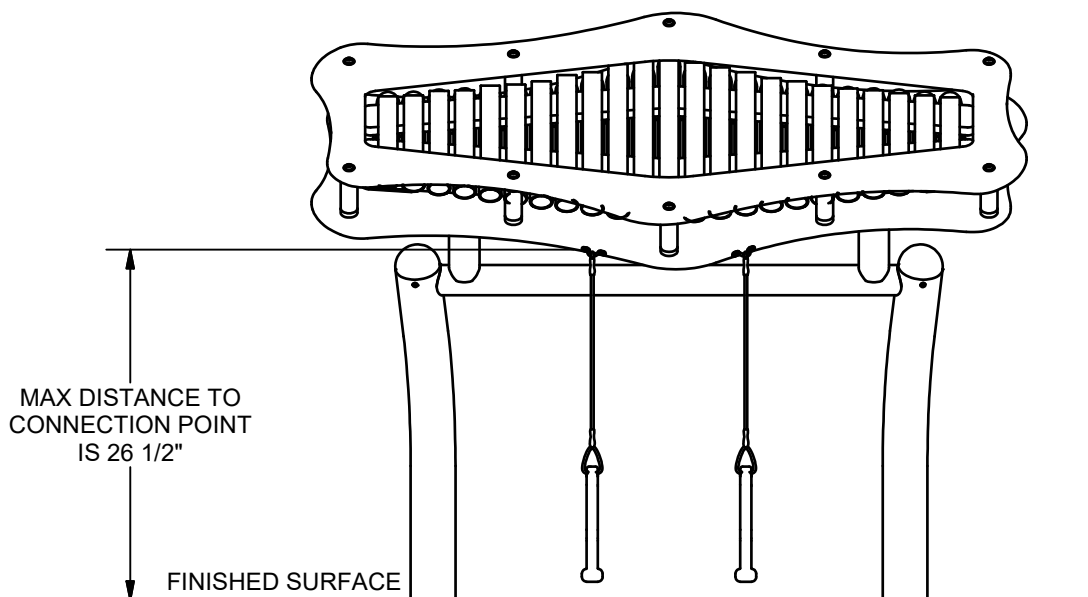
TOP VIEW



ASSEMBLY VIEWS



MALLET PLACEMENT VIEW



MALLET CONNECTION POINT VIEW



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	MELODY CHIMES FRONT HDPE PANEL	1	313914
2	MELODY CHIMES BACK HDPE PANEL	1	212794
3	MELODY CHIMES SUPPORT ASSEMBLY	1	313919
4	MELODY CHIMES INSTRUMENT INSERT	1	313912
5	MELODY CHIMES SPACER	10	313917
6	3 1/2" DOME CAP	2	212995
	HARDWARE COMPLETE	1	313972
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	20	812053*
	3/8" FLAT WASHER	20	817410*
	#10 x 1 1/4" SHEET METAL SCREW	15	810069*
	#10 x 1 1/2" SHEET METAL SCREW	16	810064*
	3/16" x 13/32" DRIVE RIVET	4	805366*
	#10 x 1" SCREW	4	815506*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

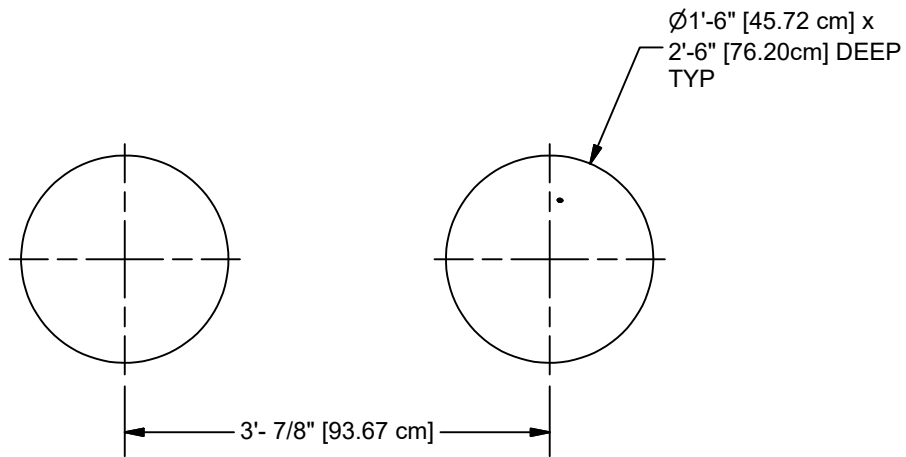
NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

1. Locate and dig footing holes according to Ground Plan. See Detail 032.
2. Attach Melody Chimes Back HDPE Panel to Melody Chimes Support Assembly. See Detail 553. Attach Caps to Support Assembly using Detail 597.
3. Attach Melody Chimes Instrument Insert to Melody Chimes Back HDPE Panel. See Detail 552
4. Attach Melody Chimes Spacer to Melody Chimes Back HDPE Panel and Melody Chimes Front HDPE Panel. See Detail 554.
5. Attach Mallet Package to Melody Chimes Back HDPE Panel. See Detail 590. Reference Mallet Placement View for placement.
6. Plumb and level the entire assembly and tighten all fasteners.
7. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
8. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.



NOTE: ALL HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

GROUND PLAN

CONCRETE REQUIRED
 .20 CUBIC YARDS
 [.15 CUBIC METERS]

SPECIFICATIONS

MELODY CHIMES FRONT HDPE PANEL AND MELODY CHIMES BACK HDPE PANEL:

The HDPE pieces shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

MELODY CHIMES INSTRUMENT PACKAGE:

Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet. Mallet shall be an all plastic construction with stainless steel hardware.

MELODY CHIMES SUPPORT ASSEMBLY:

Shall be an all welded construction fabricated from 2-3/8" O.D. x .095" (13 gauge) wall galvanized steel tubing, 1/4" thick laser cut plate, and 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing.

The Melody Chimes Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

MELODY CHIMES SPACER:

Shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing and threaded insert. The Melody Chimes Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

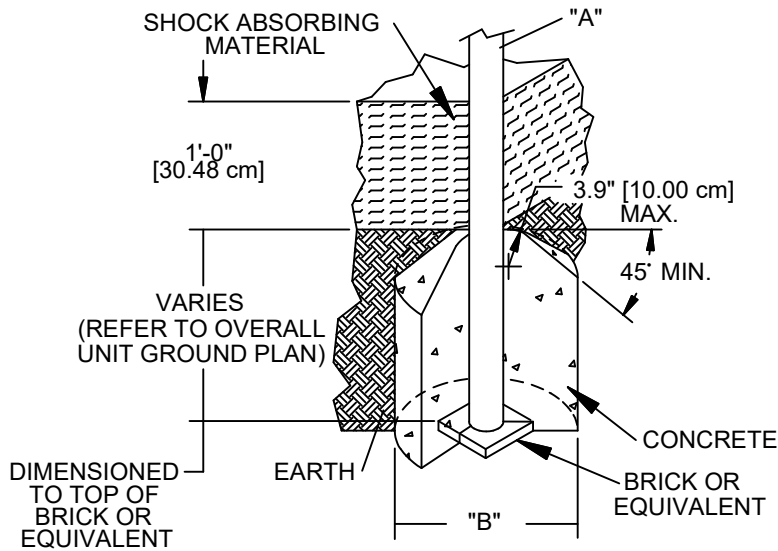
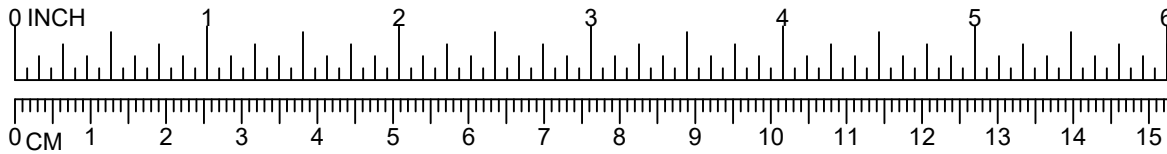
DETAILS -for- 4677

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

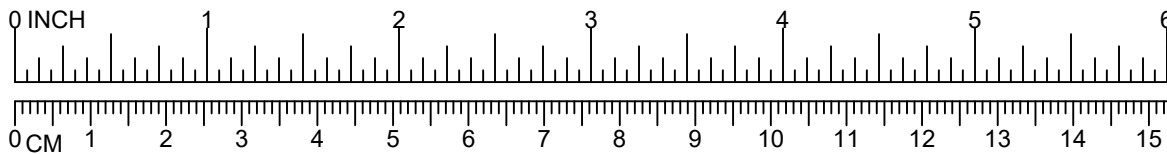
DETAILS -for- 4677

IMPORTANT

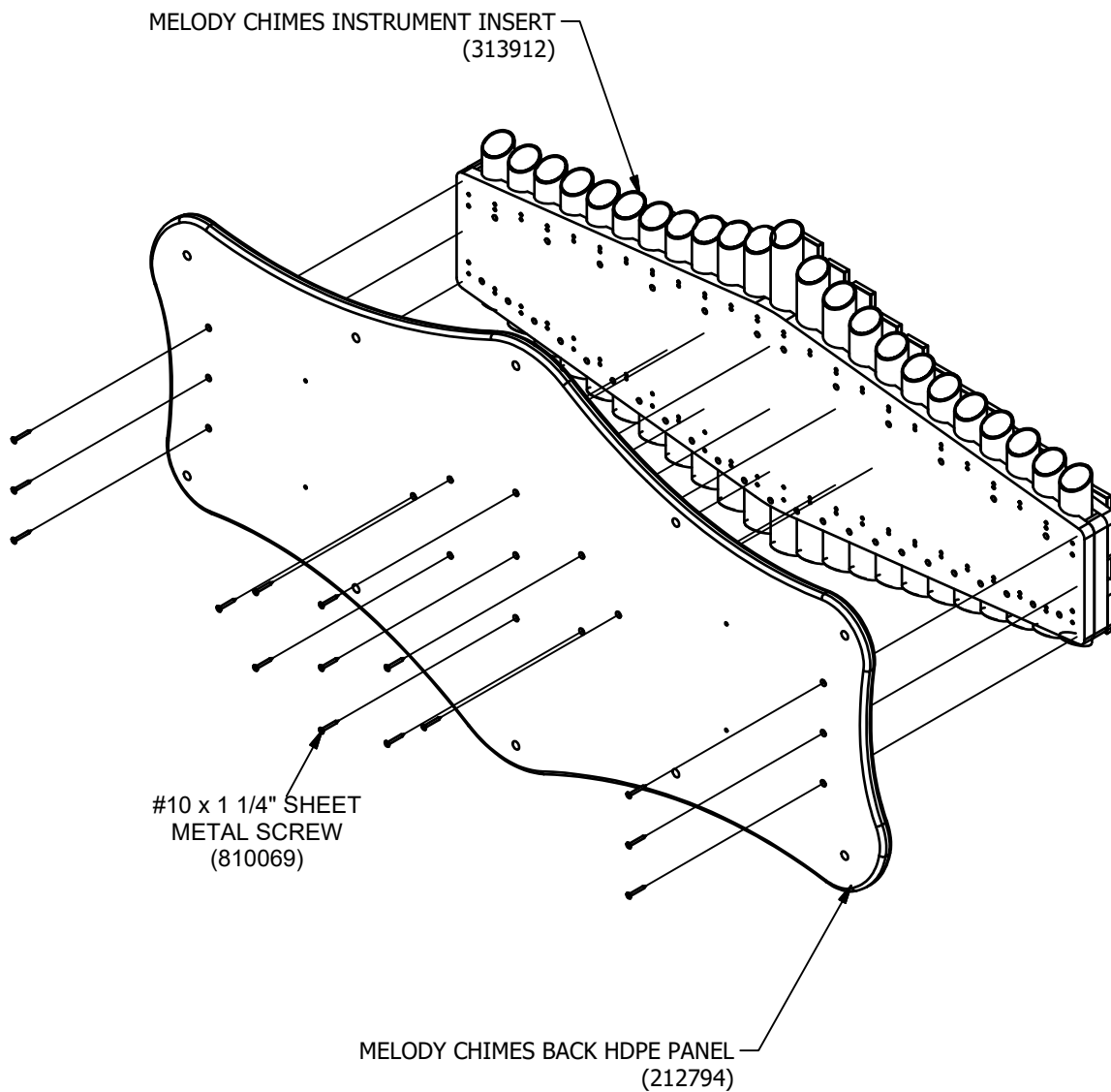
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



IMPORTANT: ORIENTATION OF INSTRUMENT INSERT IS CRITICAL.
OPEN END OF CHIMES MUST BE FACING DOWN TO ALLOW DRAINAGE.



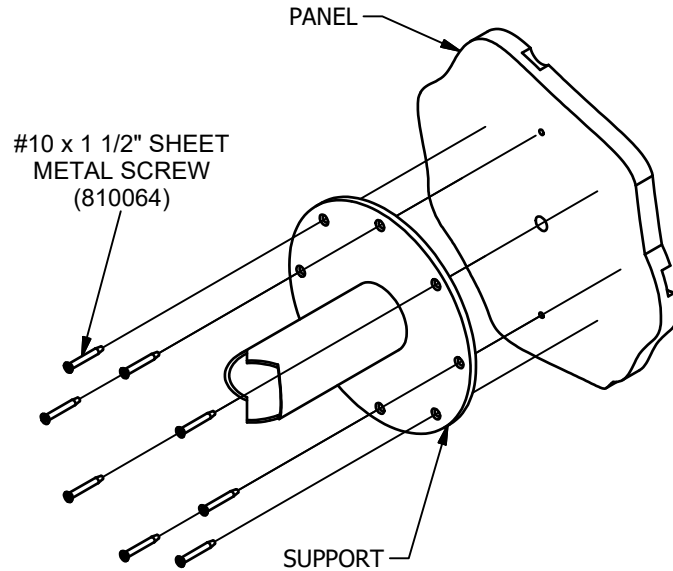
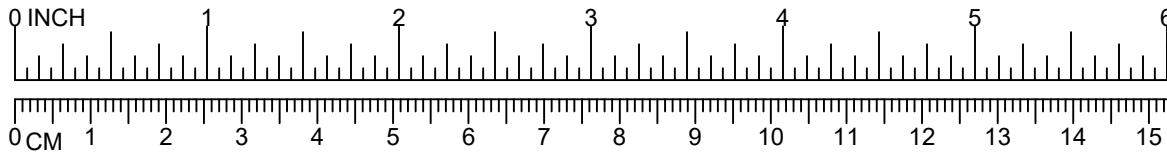
DETAILS -for- 4677

IMPORTANT

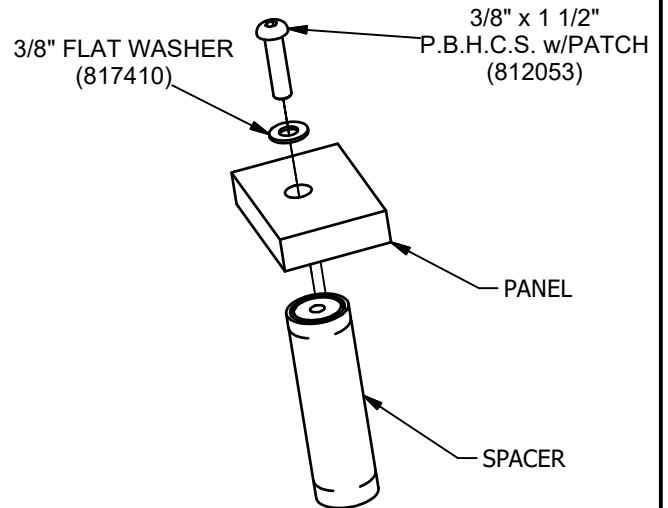
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

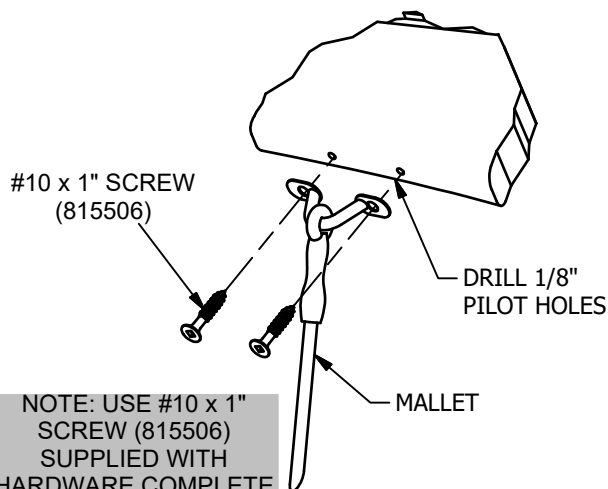
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



553

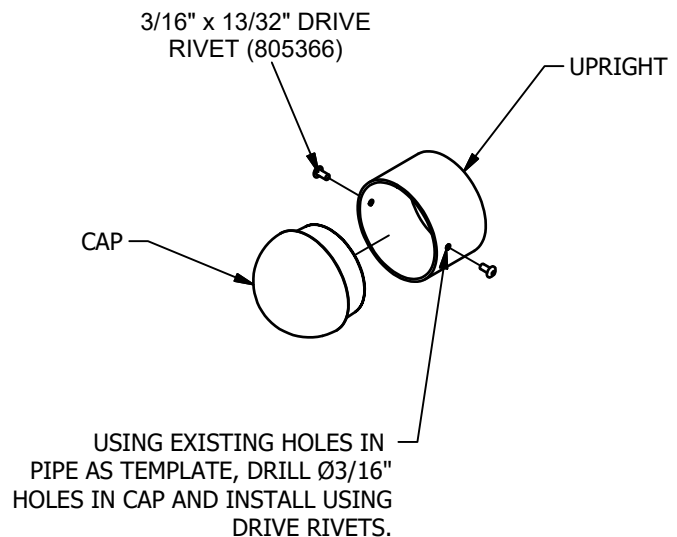


554



NOTE: USE #10 x 1" SCREW (815506) SUPPLIED WITH HARDWARE COMPLETE IN PLACE OF SCREW SUPPLIED WITH MALLET. PILOT HOLE MUST BE DRILLED BEFORE ATTACHING.

590



597



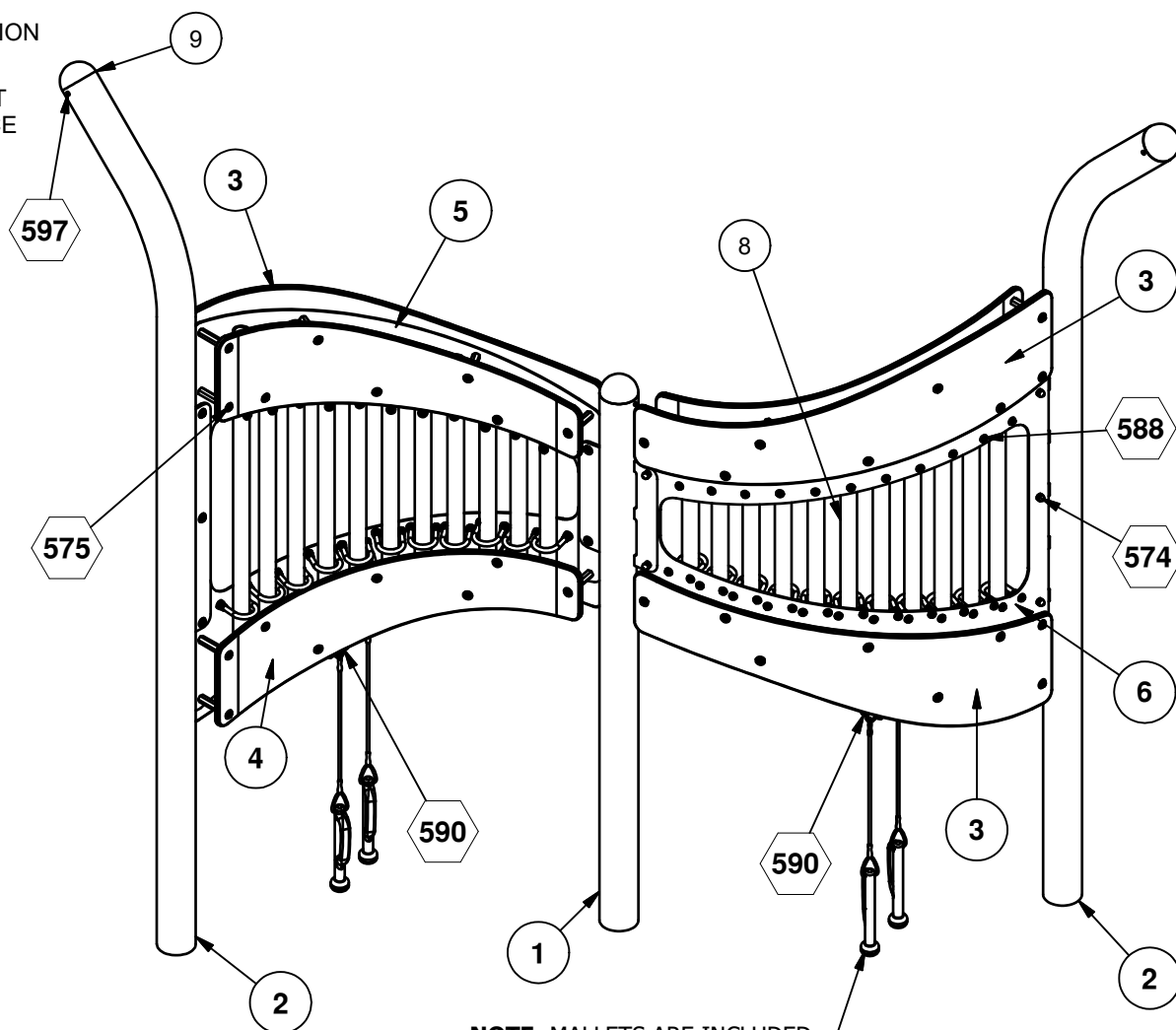
A **PLAYCORE** Company
1-800-235-2440

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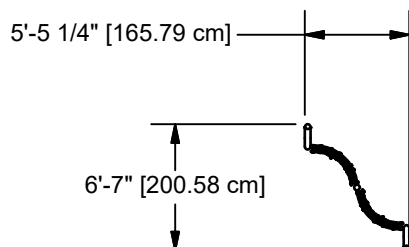
JAZZ COMBO

ISSUED/REVISED: 9/15/2022

- ⬡ = INSTALLATION
DETAIL
○ = PARTS LIST
REFERENCE



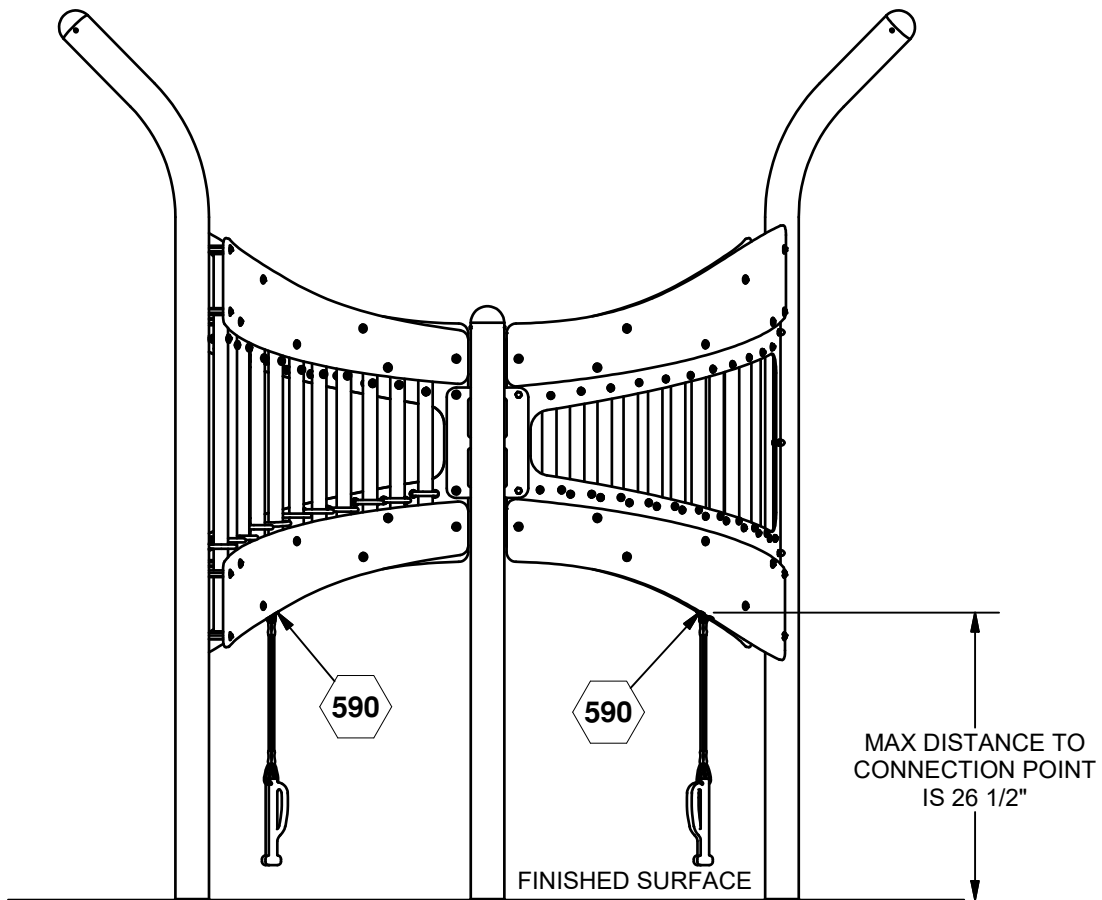
NOTE: MALLETS ARE INCLUDED
ON JAZZ COMBO PACKAGE (314079)



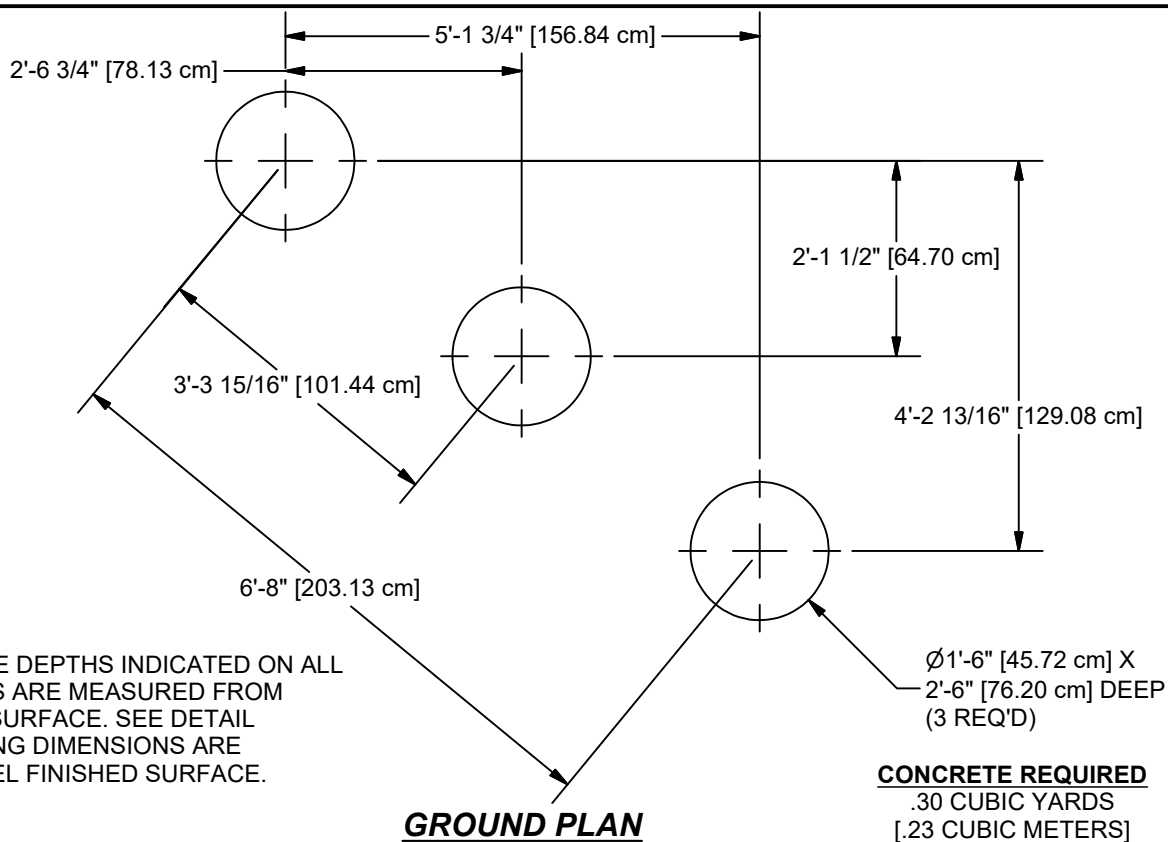
TOP VIEW

ASSEMBLY DRAWING

NOTE:
LOWER PRODUCT 0'-8" [20.32 cm]
IF INTENDED SPECIFICALLY
FOR USE BY 2-5 AGE GROUP



MALLET CONNECTION POINT VIEW

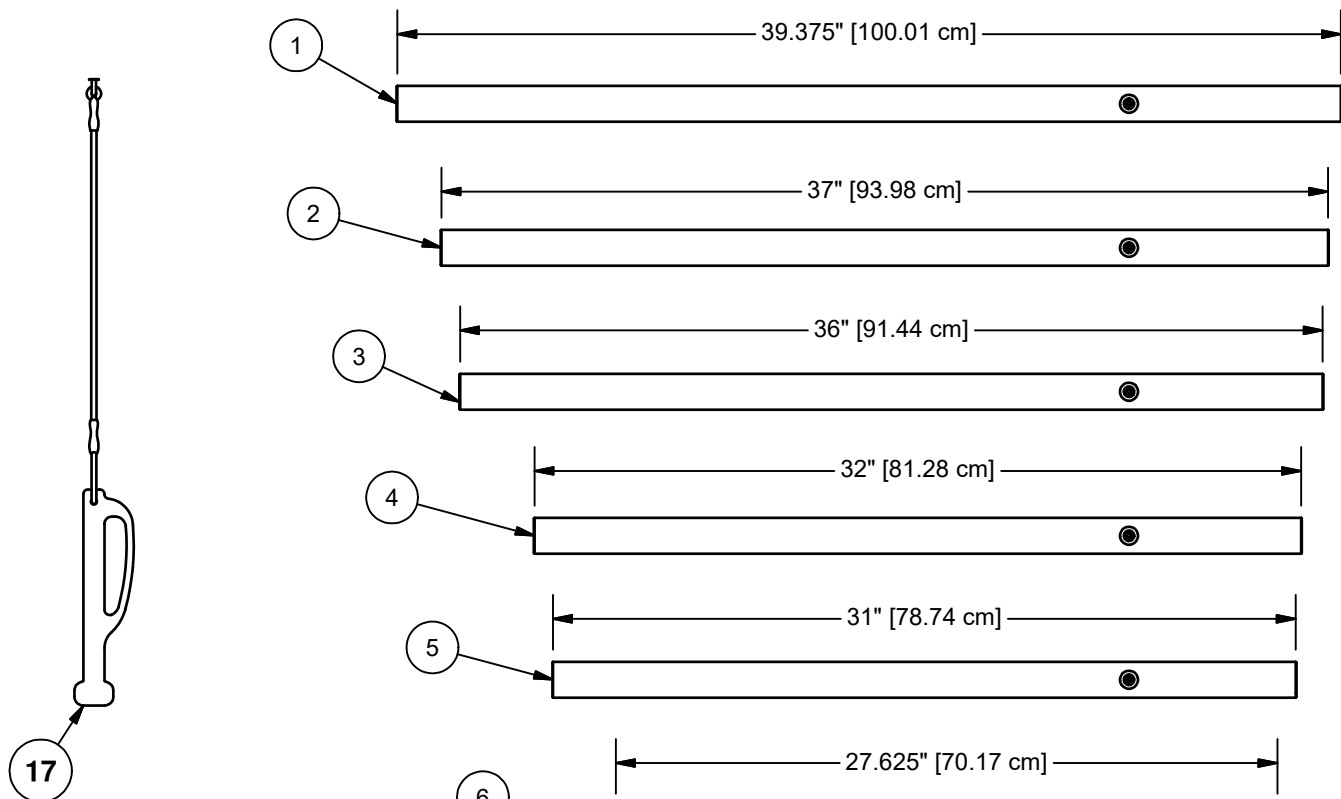


Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	SMALL UPRIGHT ASSEMBLY	1	313977
2	CURVED UPRIGHT ASSEMBLY	2	313973
3	JAZZ BACK HDPE PANEL	4	313966
4	JAZZ FRONT HDPE PANEL	4	212783
5	FORMED A MINOR PLATE	1	313962
6	FORMED C MAJOR PLATE	1	313961
7	A MINOR CHIME PACKAGE	1	314074
8	C MAJOR CHIME PACKAGE	1	314075
9	3 1/2" DOME CAP	3	212995
	HARDWARE COMPLETE	1	316298
	3/8" x 3/4" P.B.H.C.S. w/PATCH	10	812052*
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	64	812051*
	3/8" ACORN NUT	10	804002*
	3/8" FLAT WASHER	74	817410*
	3/8" x 3" ALUMINUM COUPLING NUT	32	804815*
	3/16" x 13/32" DRIVE RIVET	6	805366*
	#10 x 1" SCREW	8	815506*
	5/16" FLAT WASHER (5/8" O.D.)	66	817406*
	5/16" LOCK WASHER	66	817330*
	1/4" BARREL NUT	66	804809*
	1/4" FLAT WASHER (5/8" O.D.)	198	817408*
	3/8" PLASTIC SPACER	132	817613*

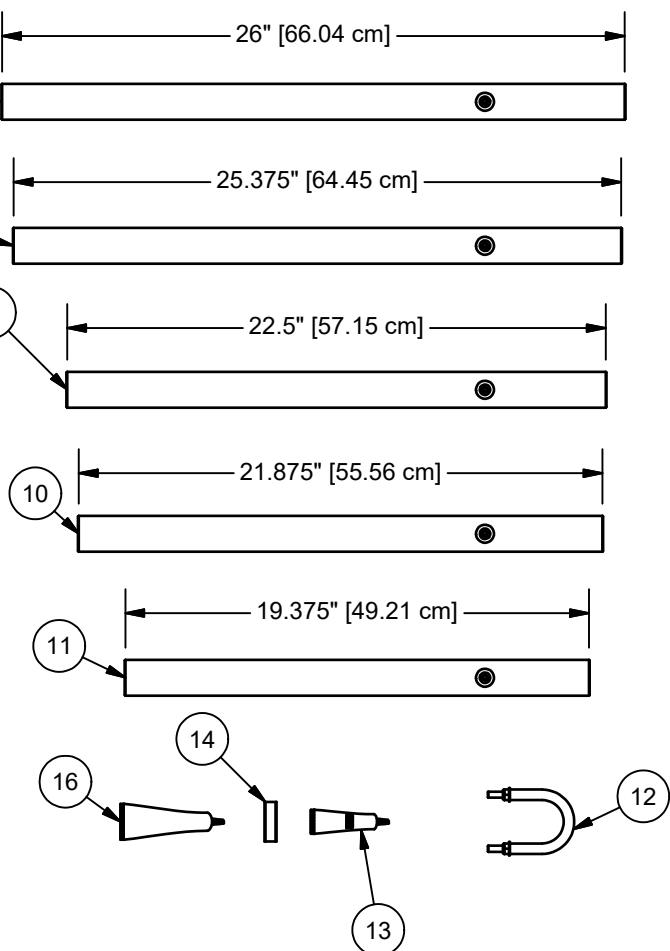
Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

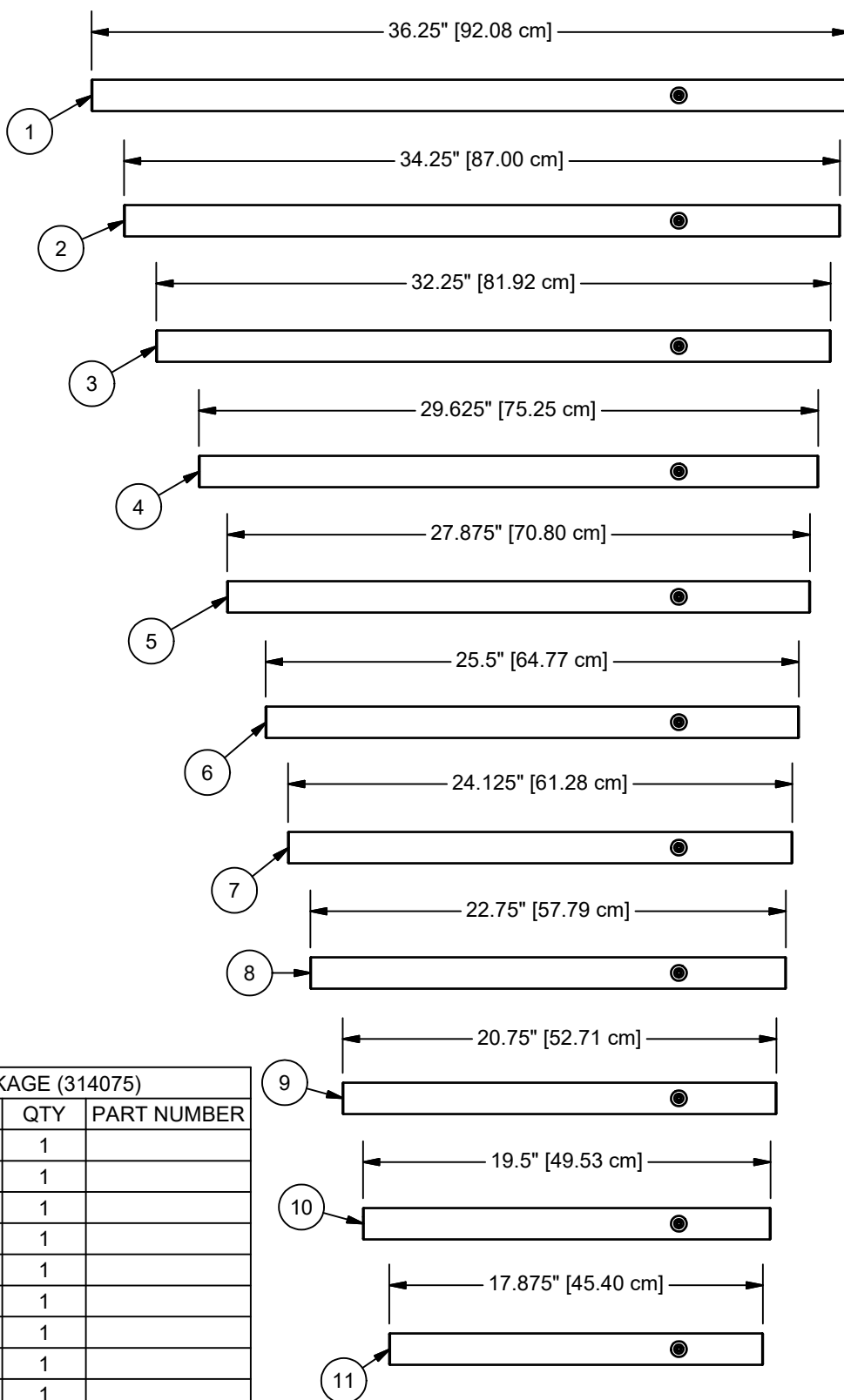
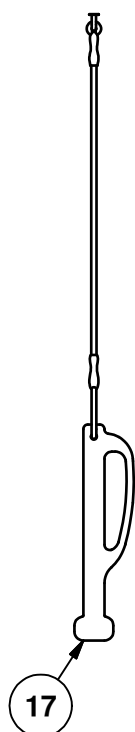
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. PAGE 3
Note: Loctite (supplied by others) should be used on any non-patch hardware.

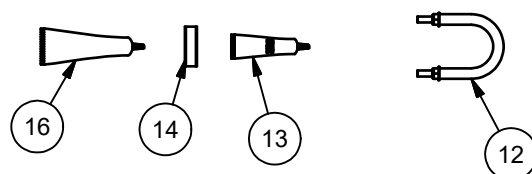


JAZZ A MINOR CHIMES PACKAGE (314074)			
REF.	DESCRIPTION	QTY	PART NUMBER
1	CHIME SILVER A 39.375	1	
2	CHIME SILVER B 37	1	
3	CHIME SILVER C 36	1	
4	CHIME SILVER E 32	1	
5	CHIME SILVER F 31	1	
6	CHIME SILVER A 27.625	1	
7	CHIME SILVER B 26	1	
8	CHIME SILVER C 25.375	1	
9	CHIME SILVER E 22.5	1	
10	CHIME SILVER F 21.875	1	
11	CHIME SILVER A 19.375	1	
12	1/4" -20 X 2" I.D. SS U-BOLT w/TYGON RUBBER	1	
13	LOCK-TITE	1	
14	FOAM DAMPER	1	
16	ADHESIVE	1	
17	MALLET PACKAGE	1	314076





JAZZ C MAJOR CHIMES PACKAGE (314075)			
REF.	DESCRIPTION	QTY	PART NUMBER
1	CHIME GOLD C 36.25	1	
2	CHIME GOLD D 34.25	1	
3	CHIME GOLD E 32.25	1	
4	CHIME GOLD G 29.625	1	
5	CHIME GOLD A 27.875	1	
6	CHIME GOLD C 25.5	1	
7	CHIME GOLD D 24.125	1	
8	CHIME GOLD E 22.75	1	
9	CHIME GOLD G 20.75	1	
10	CHIME GOLD A 19.5	1	
11	CHIME GOLD C 17.875	1	
12	1/4" -20 X 2" I.D. SS U-BOLT w/TYGON RUBBER	1	
13	LOCK-TITE	1	
14	FOAM DAMPER	1	
16	ADHESIVE	1	
17	MALLET PACKAGE	1	314076



INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly. **NOTE:** Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

1. Locate and dig footing holes according to Ground Plan. See Detail 032.

2. Attach Jazz Combo Back HDPE Panel to Formed C Major Plate and Formed A Minor Plate. See Detail 575. **NOTE:** See *Assembly Drawing* for orientation.

3. Attach each Chime to Formed C Major Plate and Formed A Minor Plate. See Detail 588.

NOTE: *This is the top connection for each chime. The reference letter for each Formed Plate (C or A) shall be orientated so that the reference letter appears at the top.*

4. Attach Foam Damper to Formed C Major Plate and Formed A Minor Plate using supplied adhesive included in each Chime. Attach U-Bolt to each Formed Plate using Acorn Nut so that it surrounds each Chime. See Detail 589. **NOTE:** *Place Foam Damper between each set of (2) holes that receive U-Bolt Connection.*

5. Attach Jazz Front HDPE Panel to 3/8" x 3" Aluminum Coupling Nut. See Detail 575. **NOTE:** *Form Jazz Front HDPE Panel to fit curvature and start with middle connection.*

6. Attach Formed C Major Plate and Formed A Minor Plate to Curved Upright Assembly and Small Upright Assembly. See Detail 574. **NOTE:** See *Assembly Drawing* for orientation. Attach Caps to Uprights using Detail 597.

7. Attach Mallet Package to the bottom edge of Jazz Back HDPE Panel and Jazz Front HDPE Panel See Detail 590. **NOTE:** *Drill pilot holes using bracket as a template and place Mallets so that each one reaches all the chimes. Refer to Assembly Drawing .*

8. Plumb and level the entire assembly and tighten all fasteners.

9. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

10. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

SPECIFICATIONS

JAZZ FRONT HDPE PANEL AND JAZZ BACK HDPE PANEL: Shall be 1/2" thick high-density polyethylene.

FORMED A MINOR PLATE AND FORMED C MAJOR PLATE: Shall be manufactured from 11 GA. hot rolled steel sheet.

JAZZ COMBO PACKAGE: Shall be constructed of anodized aluminum chimes, foam damper, 1/4" - 20 x 2" I.D. SS U-Bolt w/Tygon Rubber, and 1/4" -20 SS Acorn Nut. Mallet shall be an all plastic construction with stainless steel hardware.

SMALL UPRIGHT ASSEMBLY AND CURVED UPRIGHT ASSEMBLY: Shall be an all welded construction fabricated from 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and 1/4" thick laser cut steel. The Small Upright Assembly and Curved Upright Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

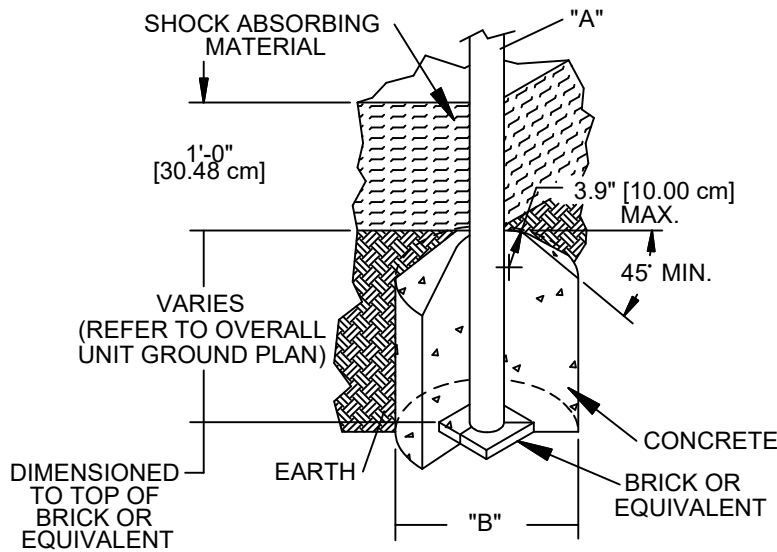
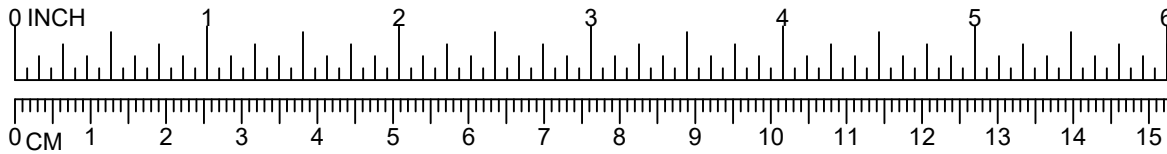
DETAILS -for- 4680

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



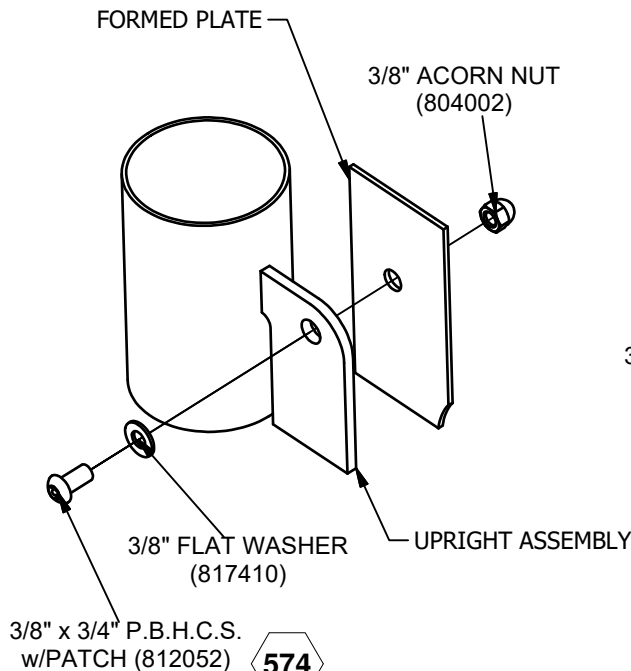
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

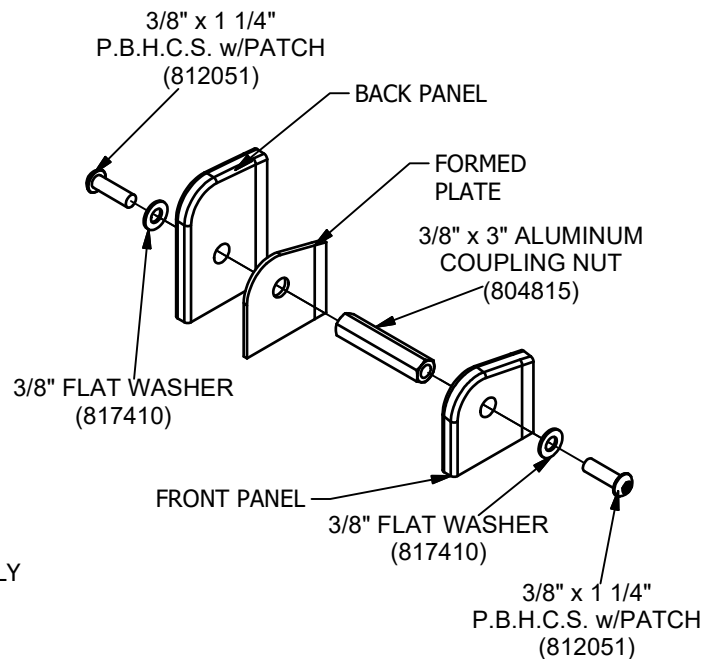
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



574



575

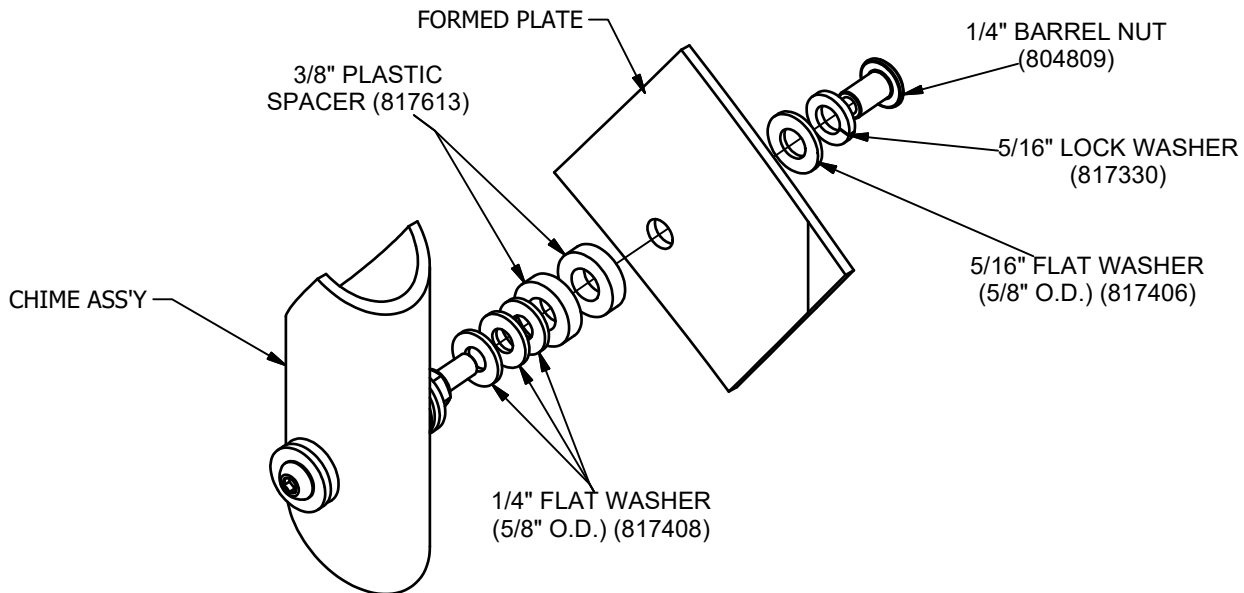
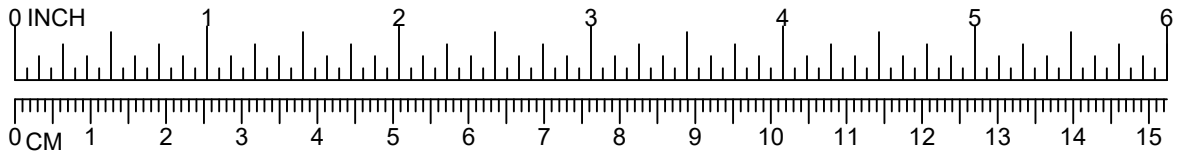
DETAILS -for- 4680

IMPORTANT

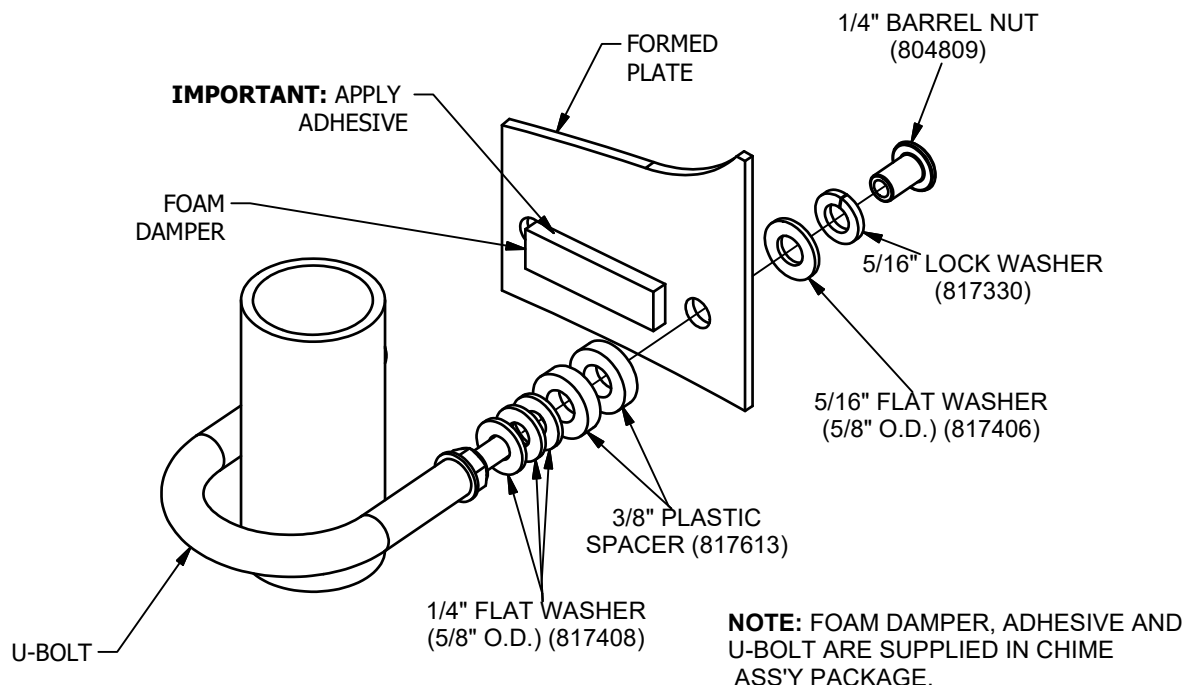
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



588



589

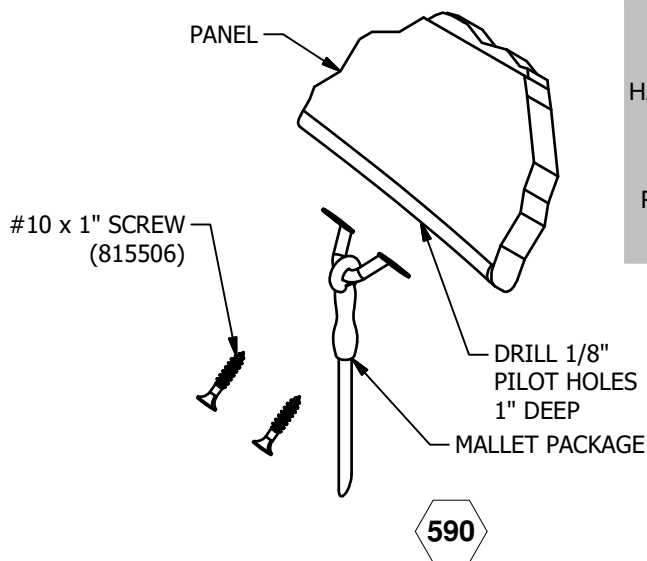
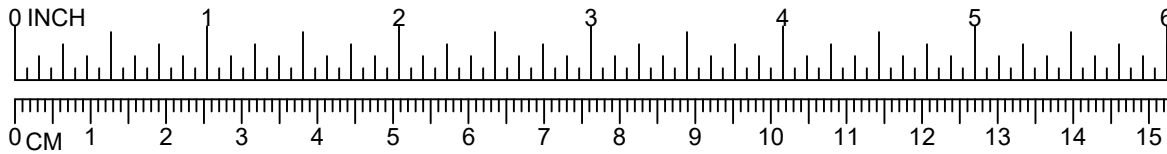
DETAILS -for- 4680

IMPORTANT

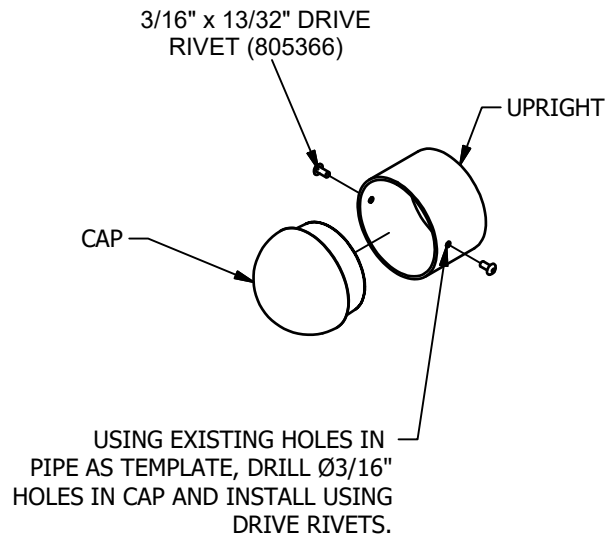
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



NOTE: USE #10 x 1" SCREW (815506) SUPPLIED WITH HARDWARE COMPLETE IN PLACE OF SCREW SUPPLIED WITH MALLET. PILOT HOLE MUST BE DRILLED BEFORE ATTACHING.



597



A PLAYCORE Company

1-800-235-2440

3249

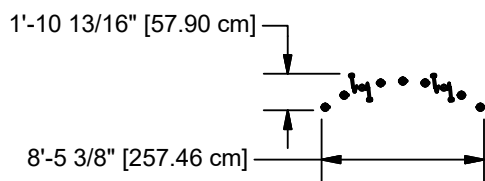
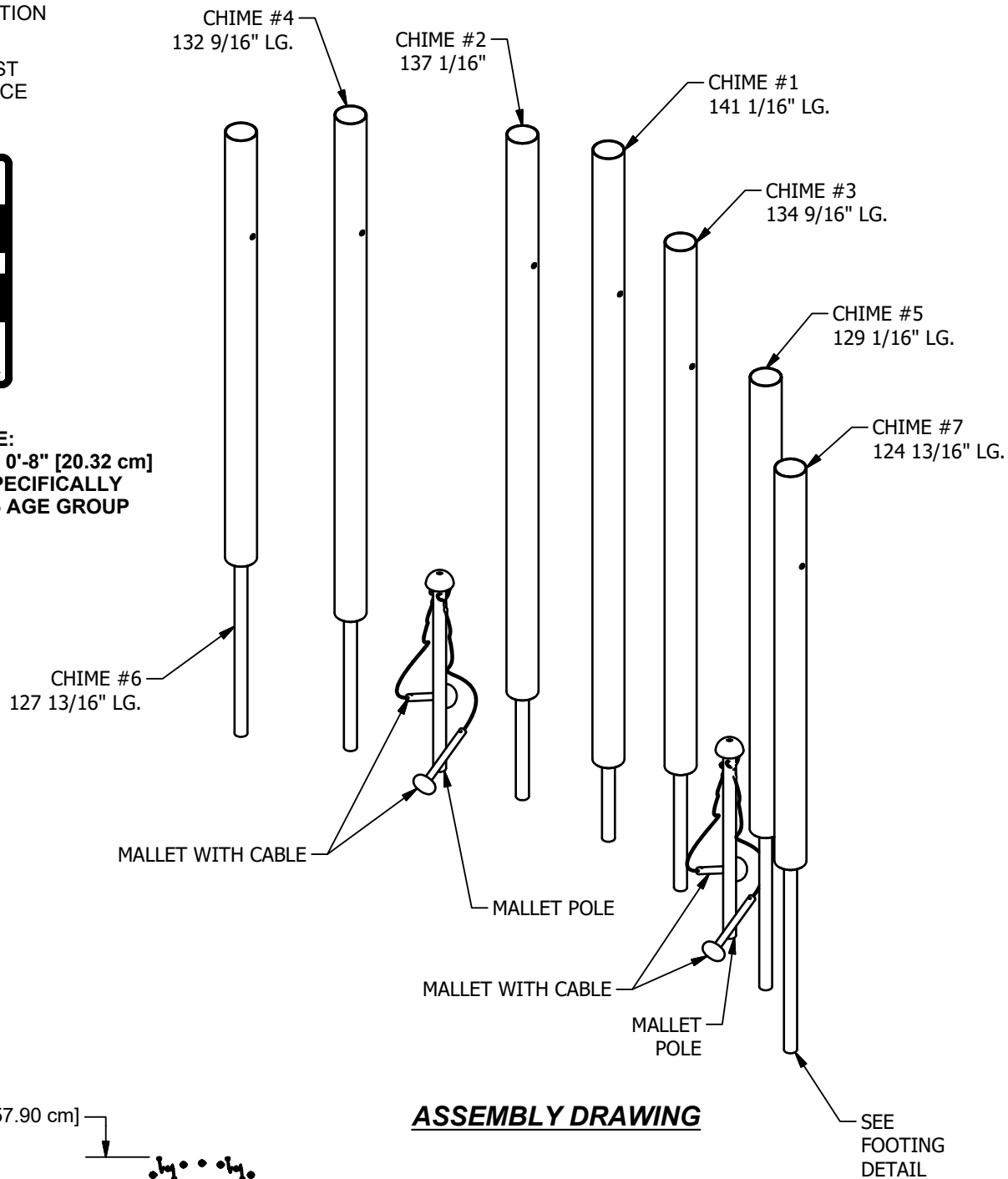
HARMONIC CHIMES (SET OF 7)

ISSUED/REVISED: 10/4/2017

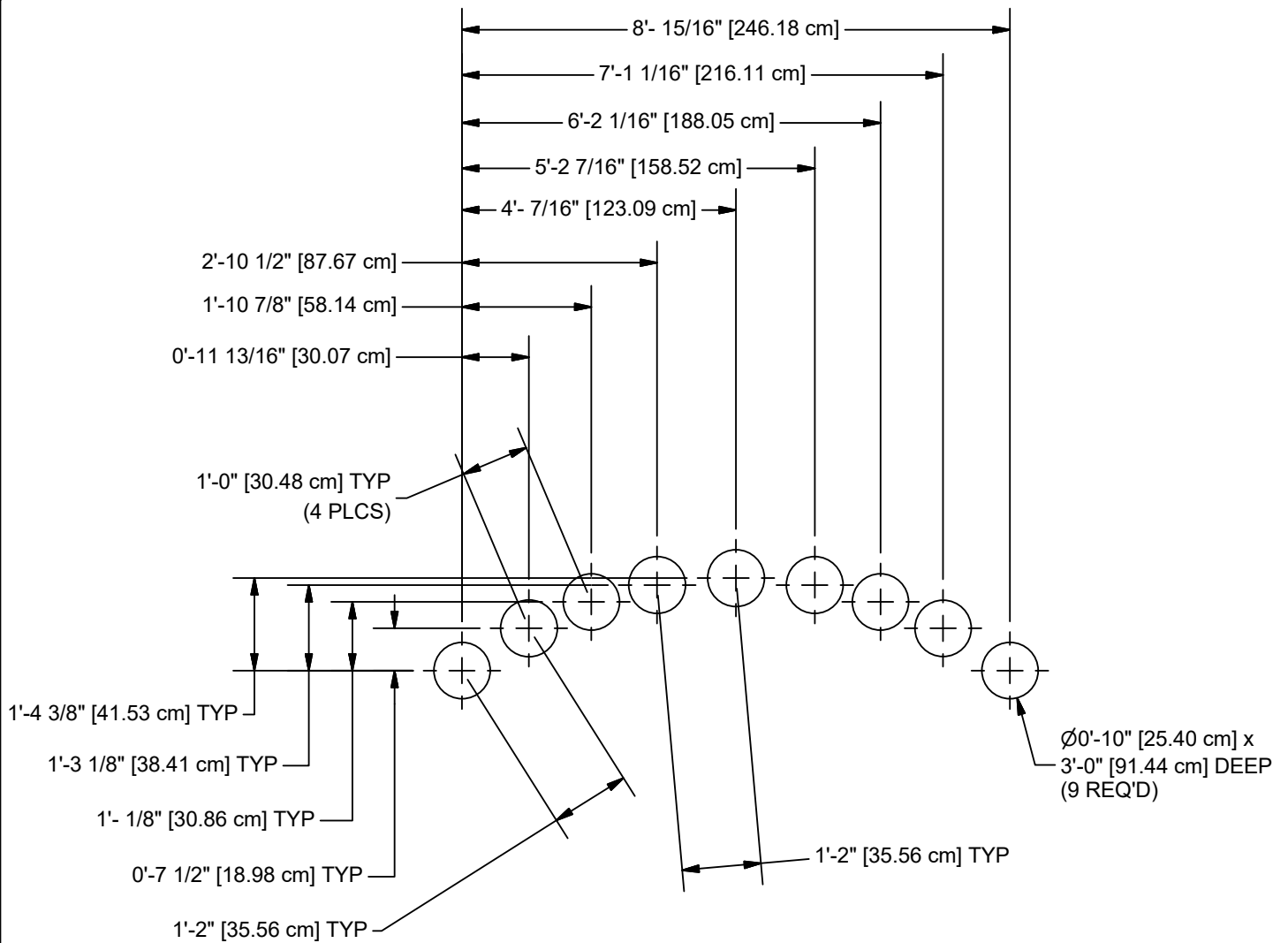
- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE



NOTE:
LOWER PRODUCT 0'-8" [20.32 cm]
IF INTENDED SPECIFICALLY
FOR USE BY 2-5 AGE GROUP



TOP VIEW



NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

GROUND PLAN

CONCRETE REQUIRED
 .39 CUBIC YARDS
 [.30 CUBIC METERS]

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	HARMONIC CHIMES (SET OF 7)	1	314080

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

**Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.**

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

1. Locate and dig footing holes according to Ground Plan. See Footing Detail for dimensions and notes regarding surfacing, etc.
2. Drive 36" long Steel Rebar (not provided) into the center of each hole. Rebar needs to be 18" into the soil within the Ø10" hole. This process helps with keeping the Chimes vertical while the concrete cures. See Footing Detail.
3. Place each Chime & Mallet Pole into their holes over the Rebar, then pour concrete around the In Ground poles. Check that all Chimes are level. Leave concrete to set according to the concrete manufacturer's guidelines. If necessary, brace the Chimes to hold them rigid during the curing process. **IMPORTANT:** Chimes must be as vertical as possible for best sound.

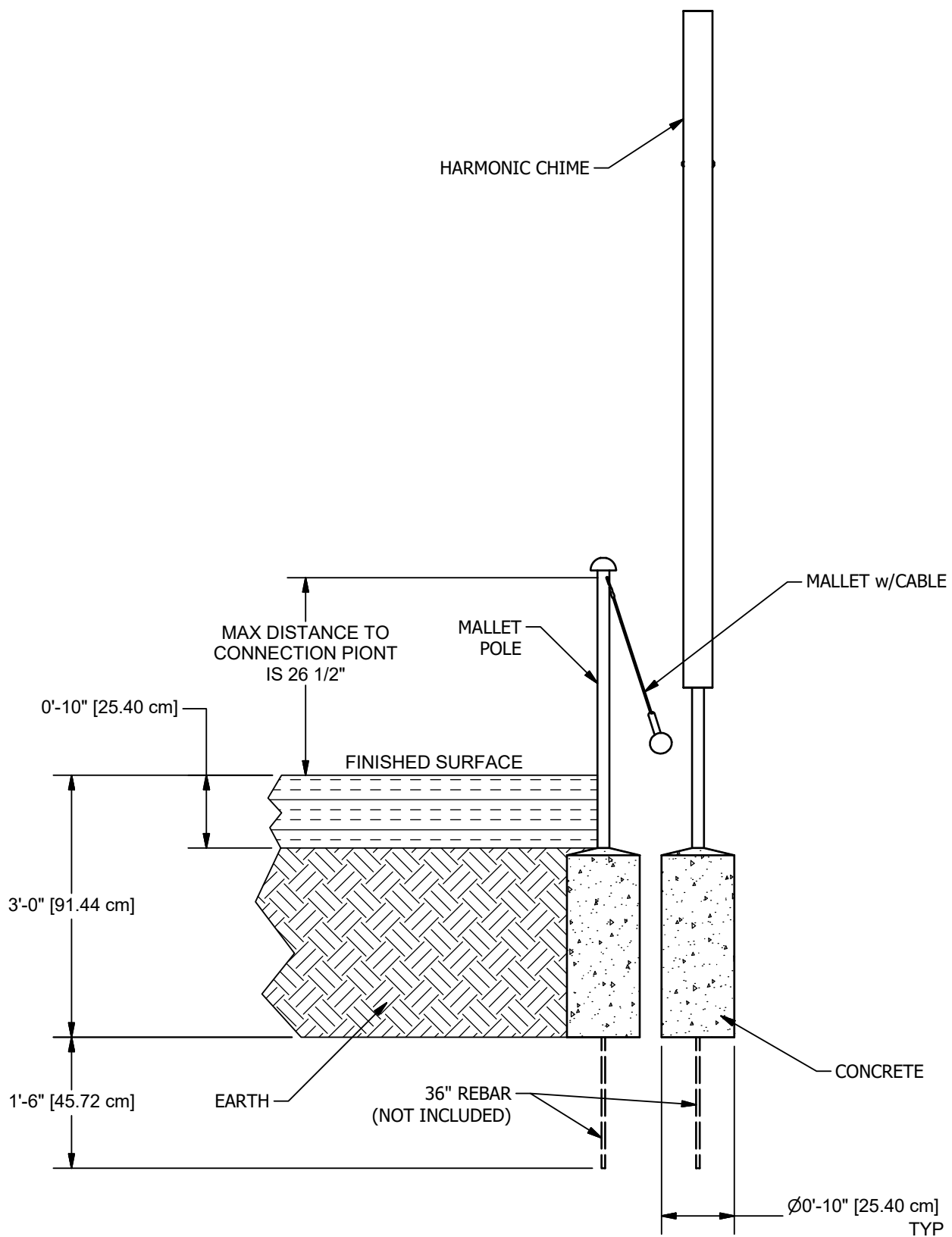
NOTE: Shock absorbing properties of surfacing materials vary. If you determine that less than 10" of surfacing is required, make up the difference in elevation with earth, before applying surfacing.

SPECIFICATIONS

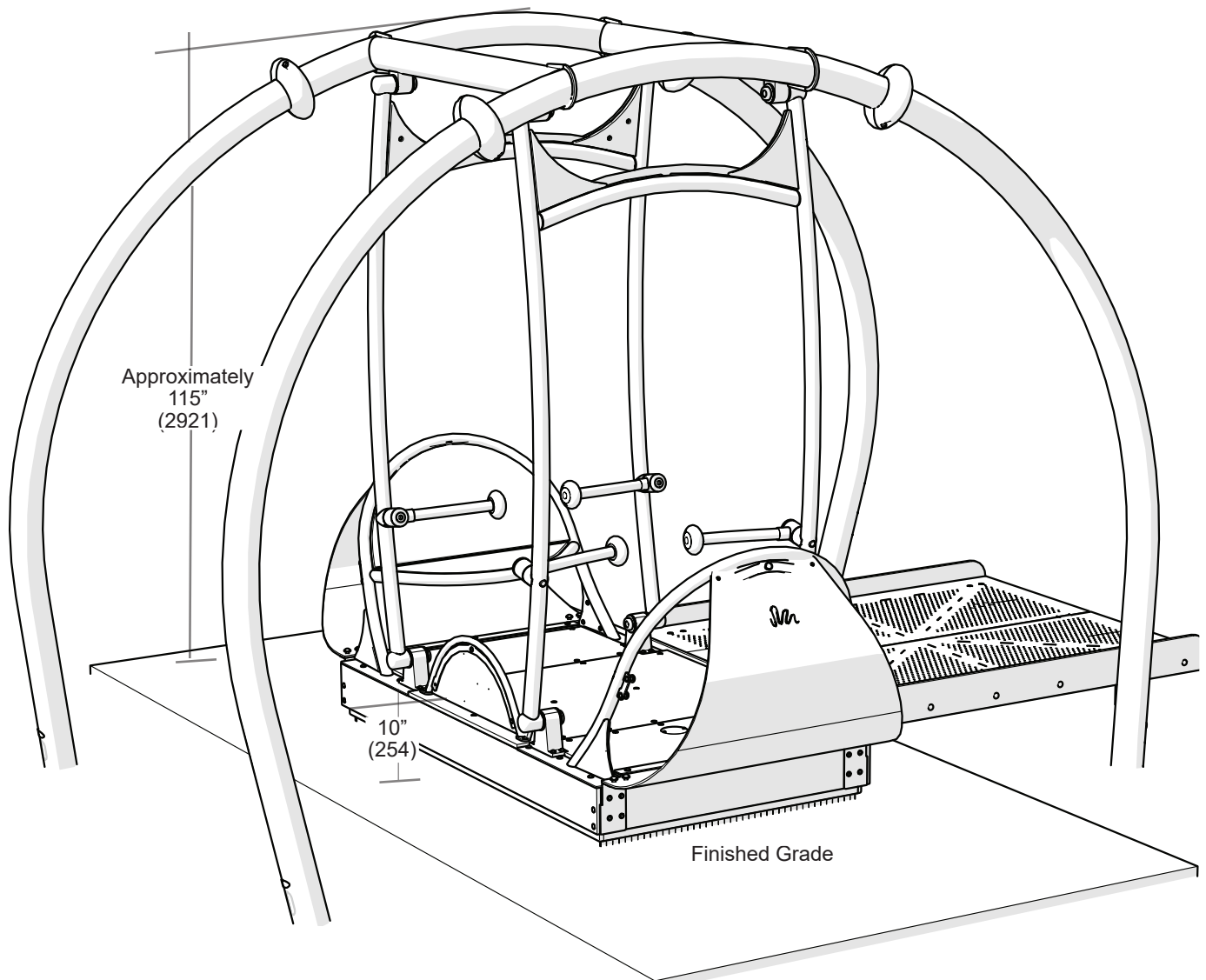
HARMONIC CHIMES (SET OF 7) PACKAGE:

Each chime is made with heavy duty, anodized aluminum. Each instrument is supplied with four durable mallets with coated steel cables.

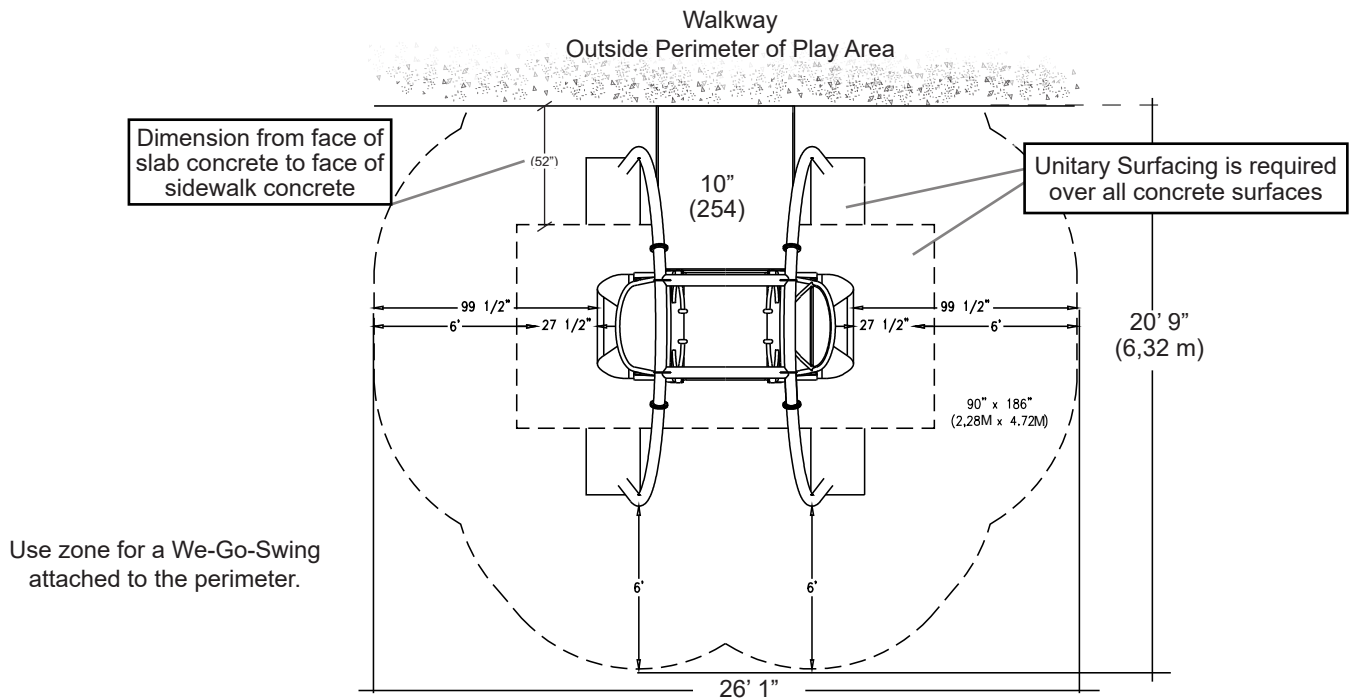
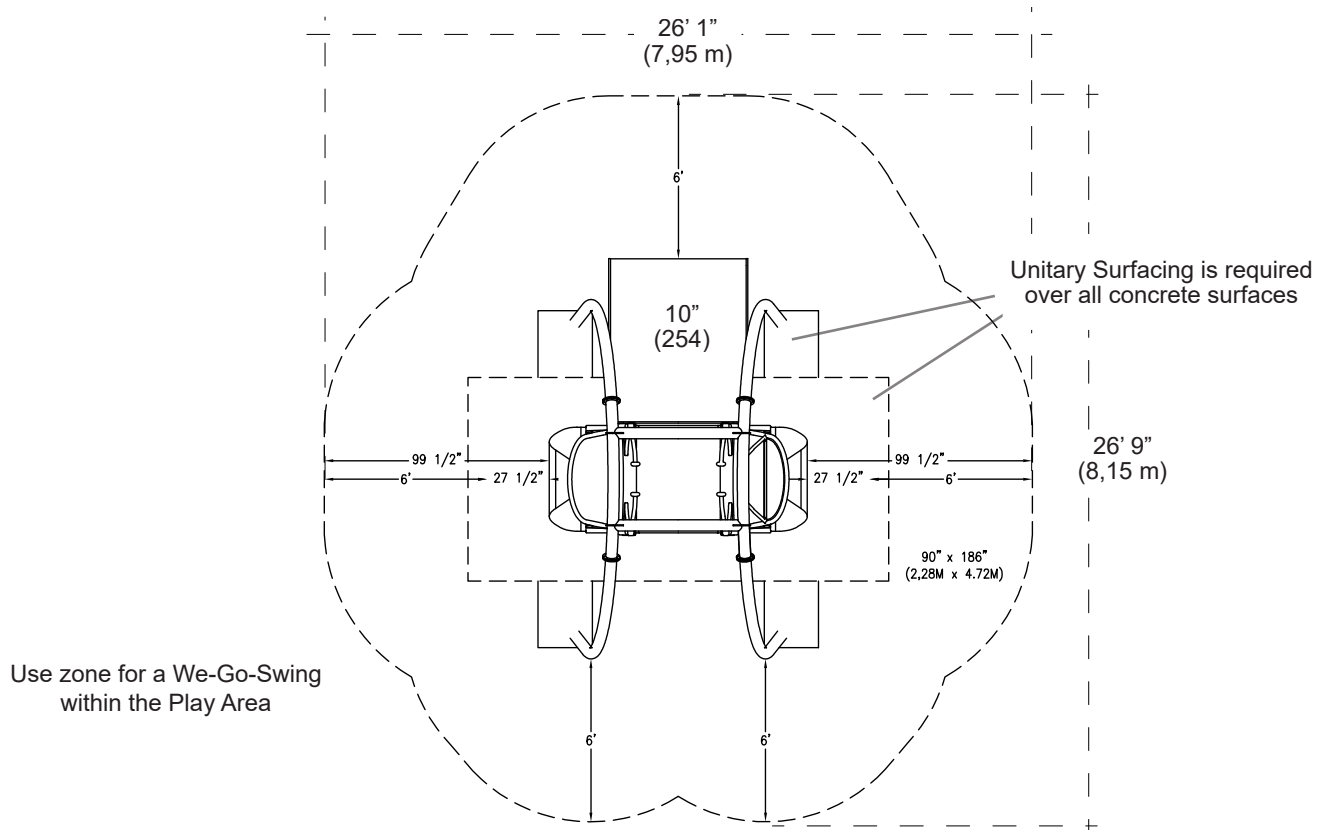
SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



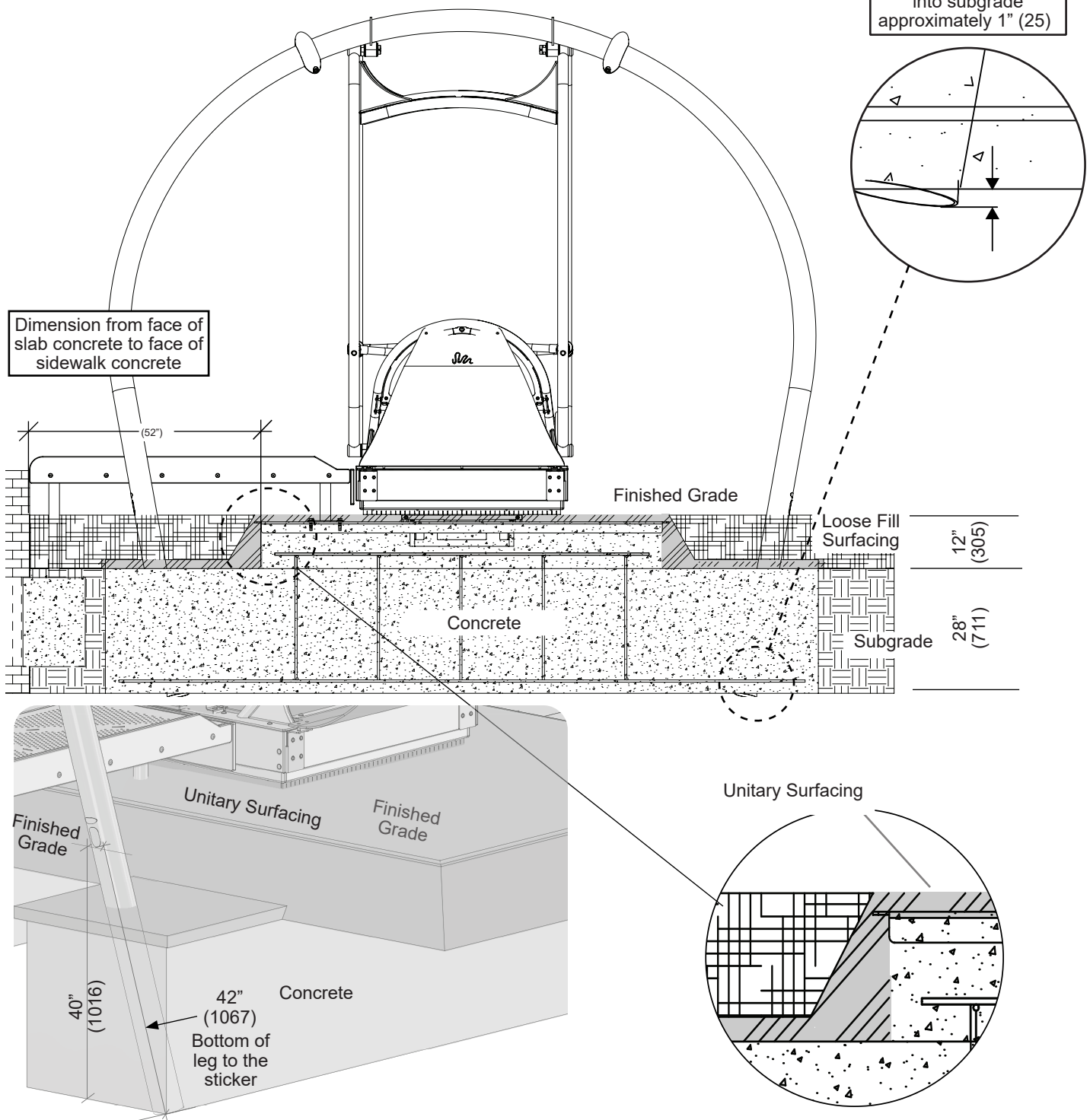
FOOTING DETAIL



SITE LAYOUT

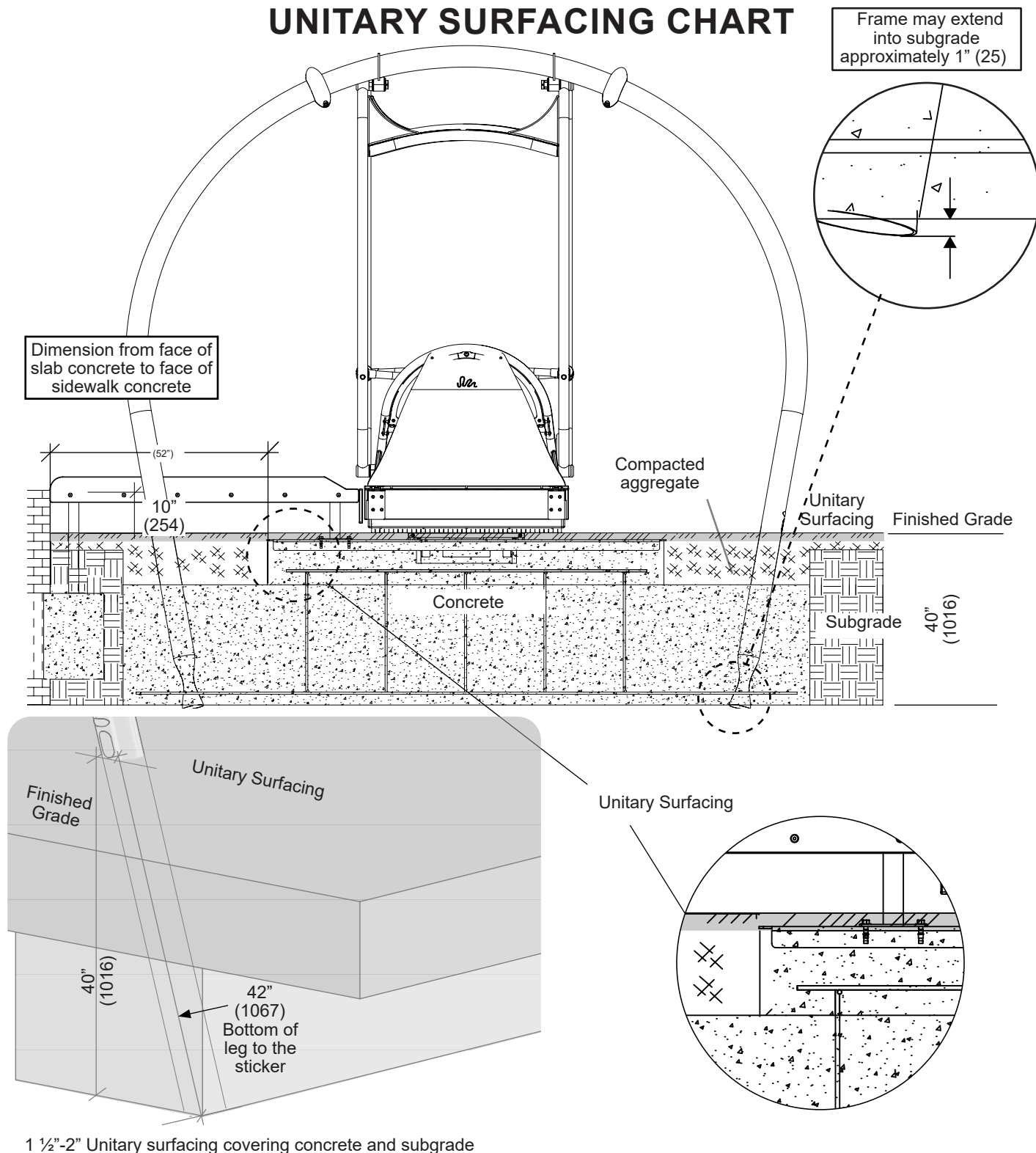


LOOSE FILL SURFACING CHART

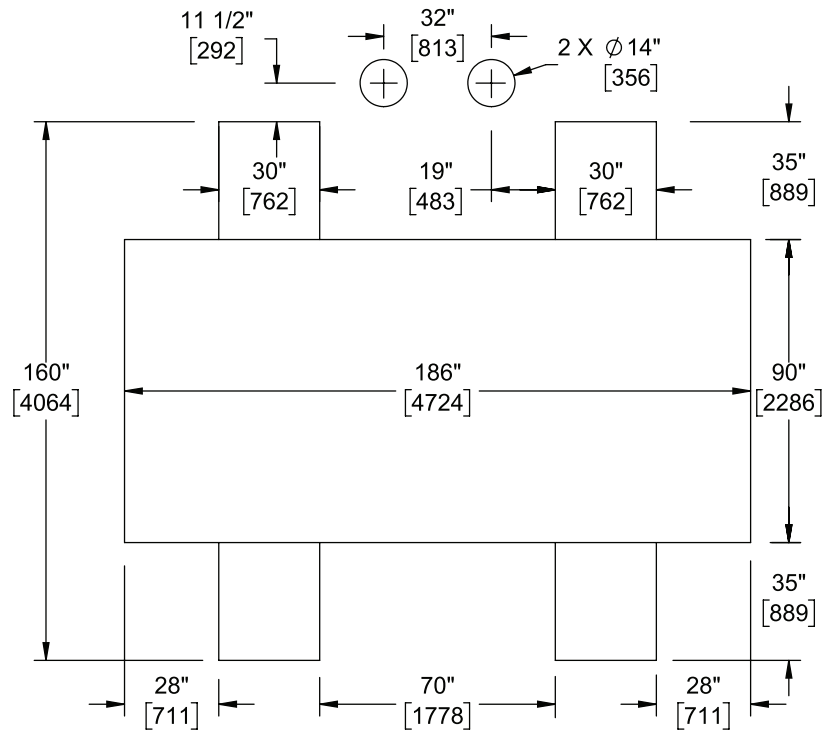


1 ½"-2" Unitary surfacing with a turn-down, covering concrete. Back fill with loose fill surfacing.

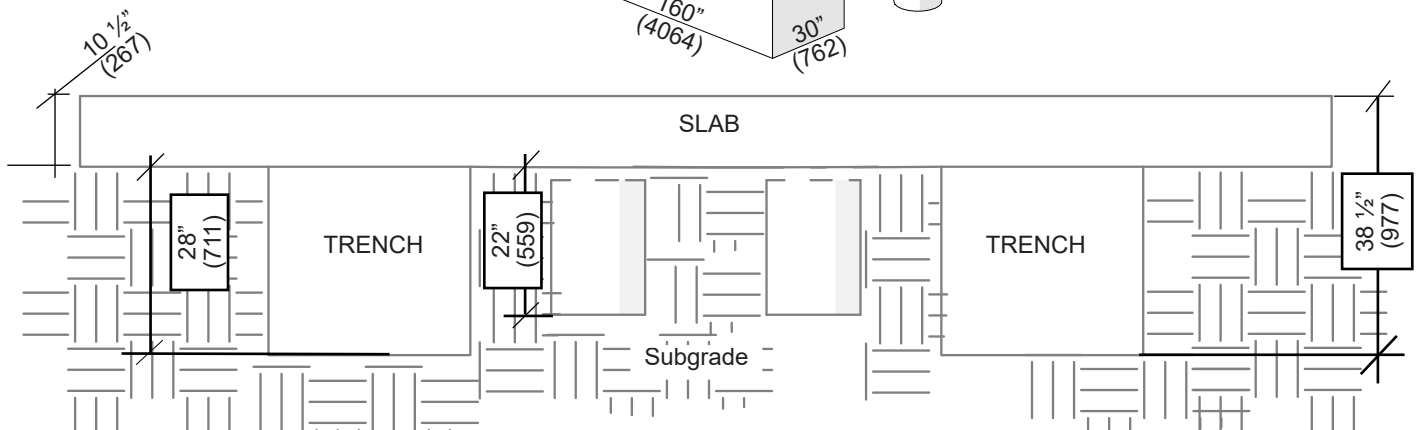
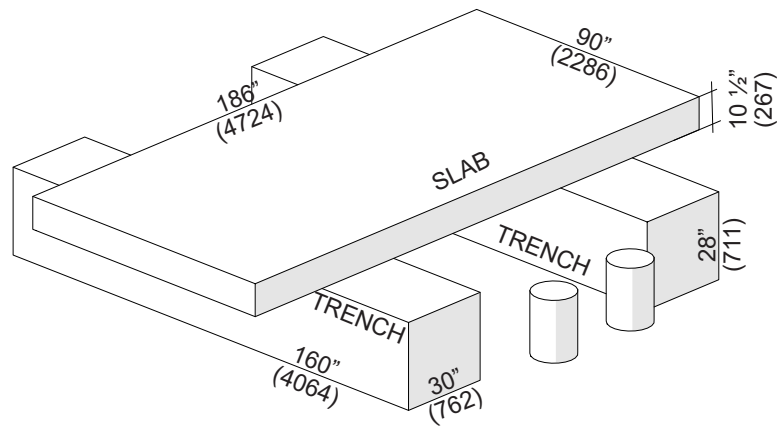
UNITARY SURFACING CHART



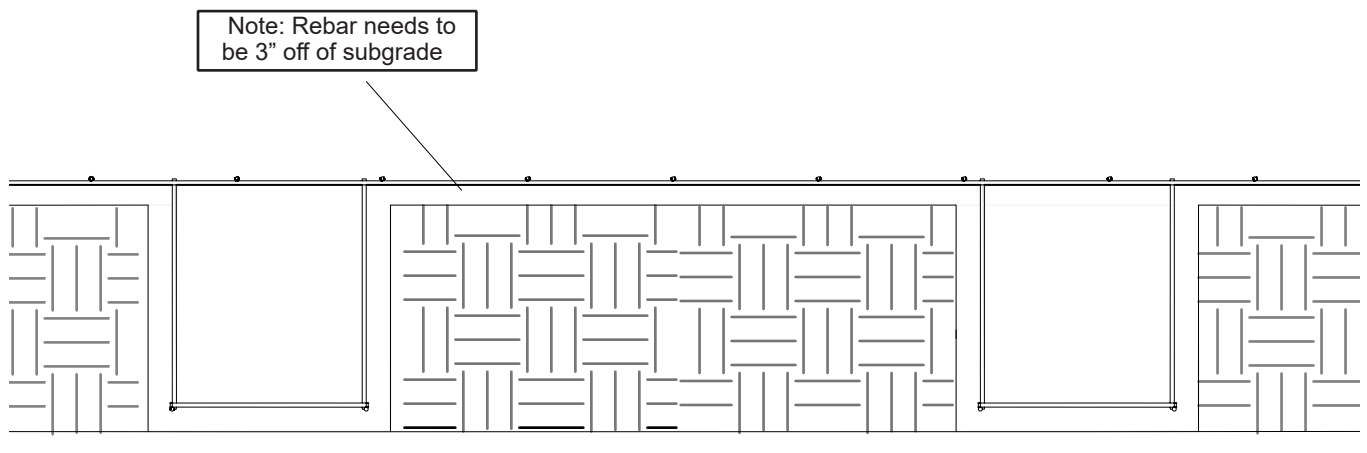
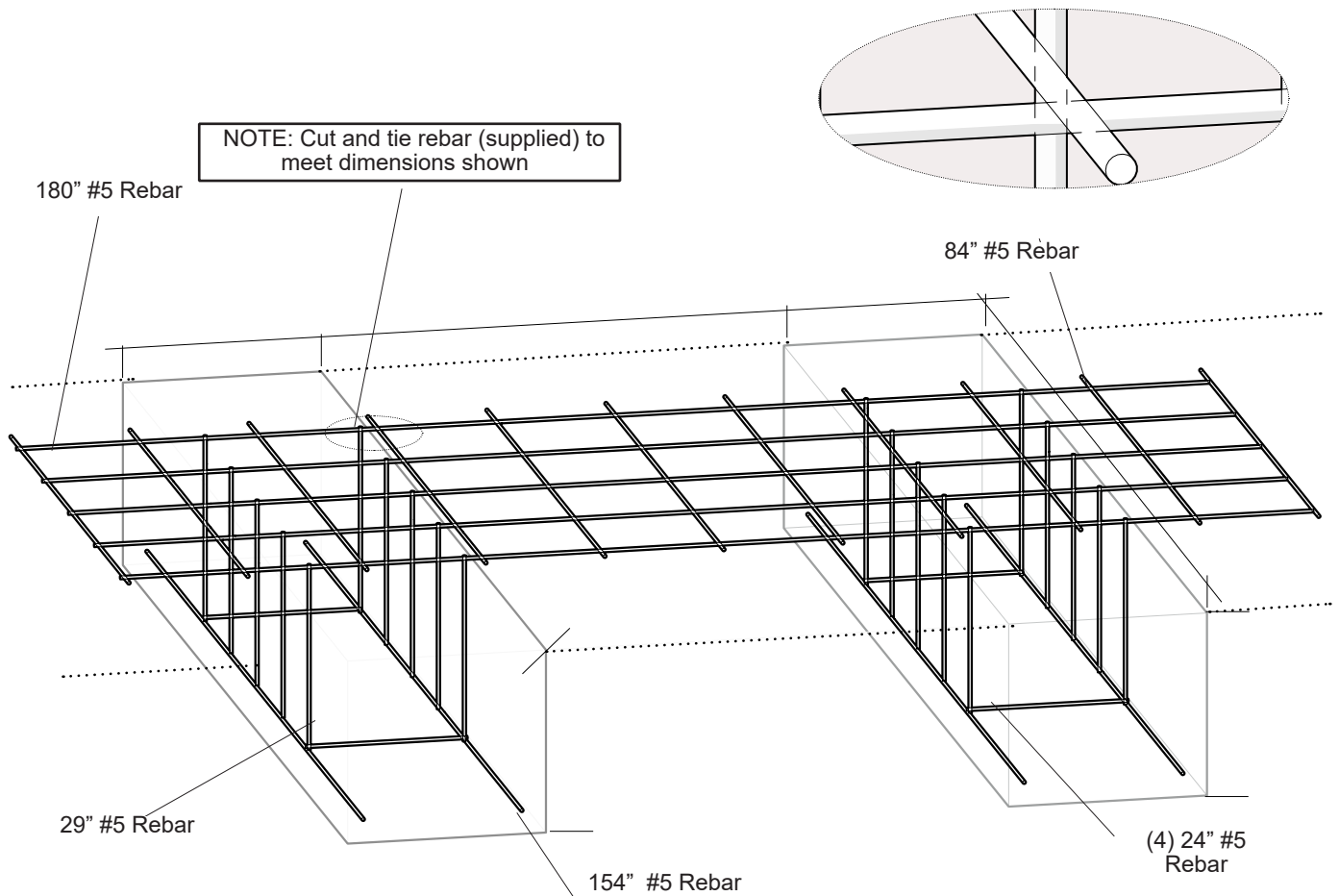
CONCRETE FOOTING CHART

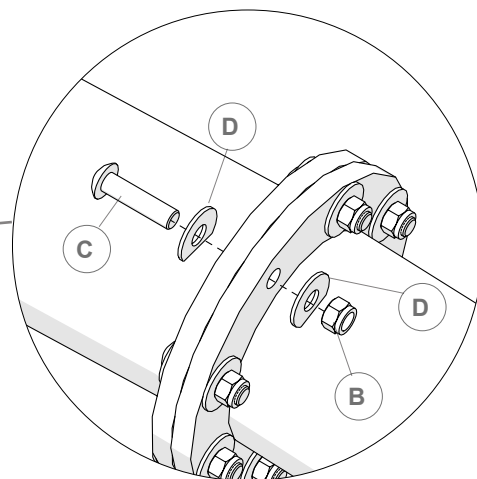
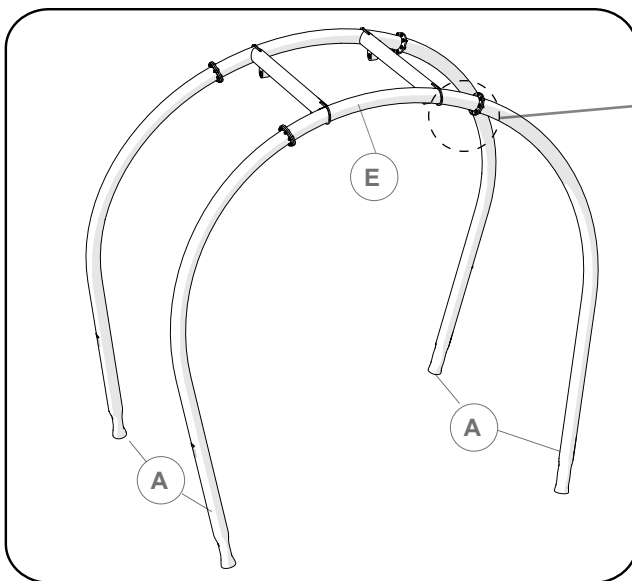


NOTE: CONCRETE IS A SINGLE POUR



FOOTING CHART





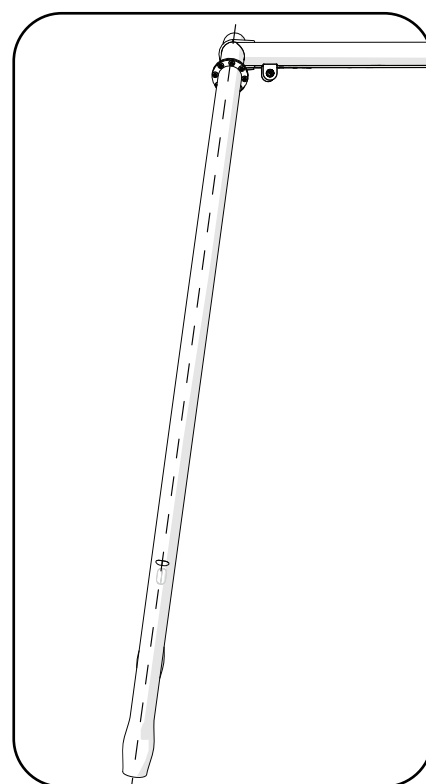
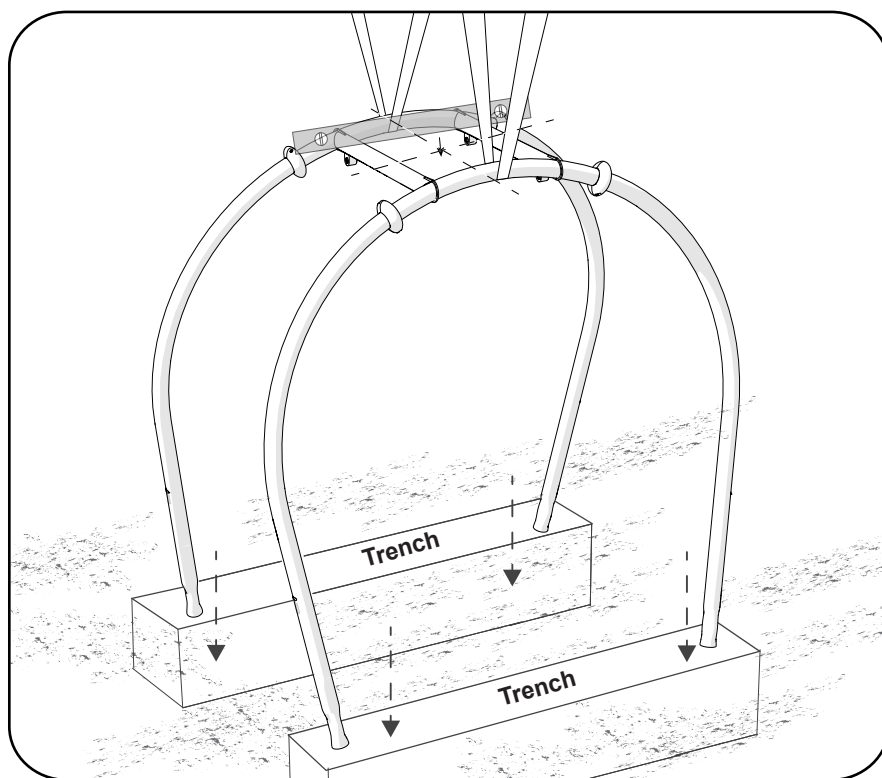
NOTE: Leave hardware loose until frame is lowered into the trenches.

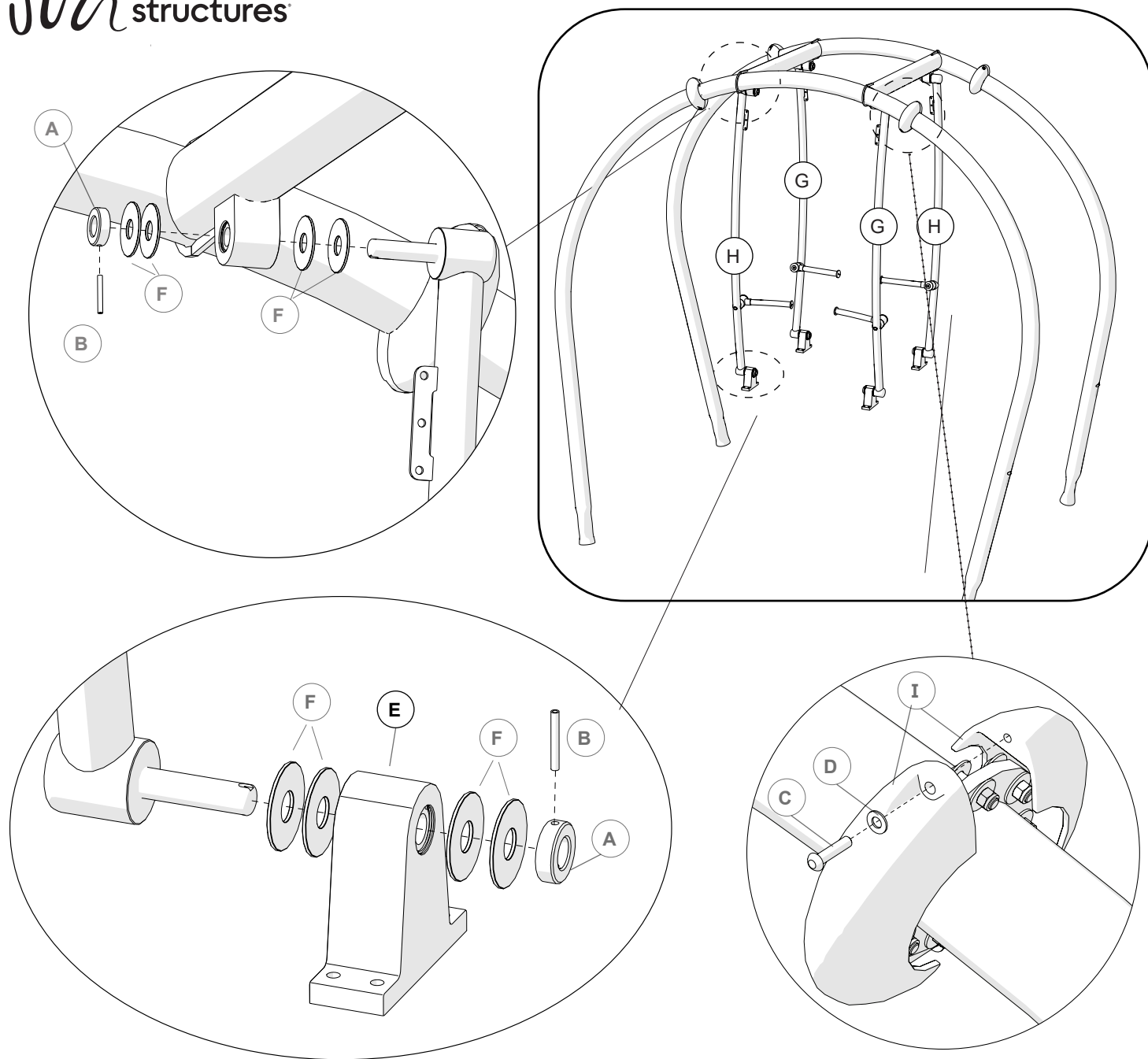
*	Part #	Description	Qty.
A	274807	Inclusive Swing Frame Leg	4
B	100330	Nut Hex Nylok $\frac{7}{16}$ - 14 SST	32
C	234397	BHCS 6lp LTHD $\frac{7}{16}$ x 1.688"	32

*	Part #	Description	Qty.
D	234937	D Cut Flat Washer SST	64
E	274908	Inclusive Swing Frame ASM	1

NOTE: Use a lift to move structure into trench. Level frame in both directions. If frame isn't level, adjust frame by adjusting legs.

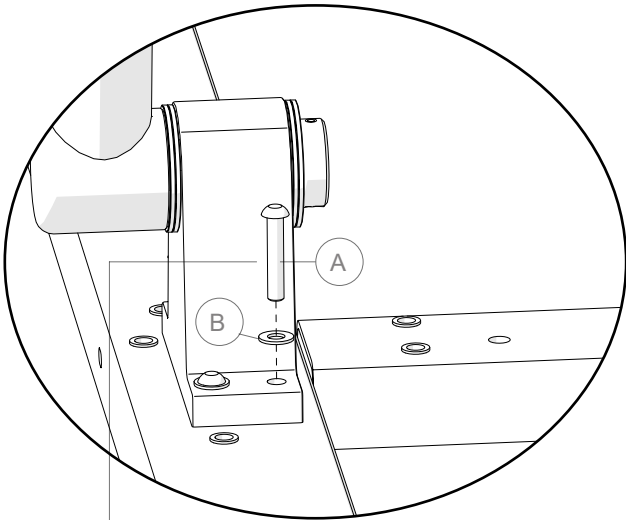
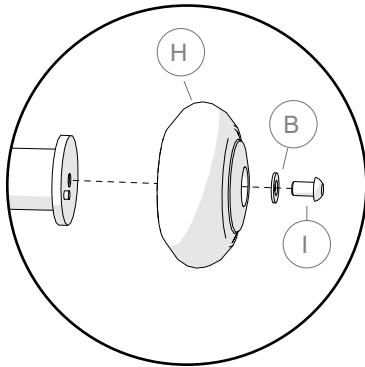
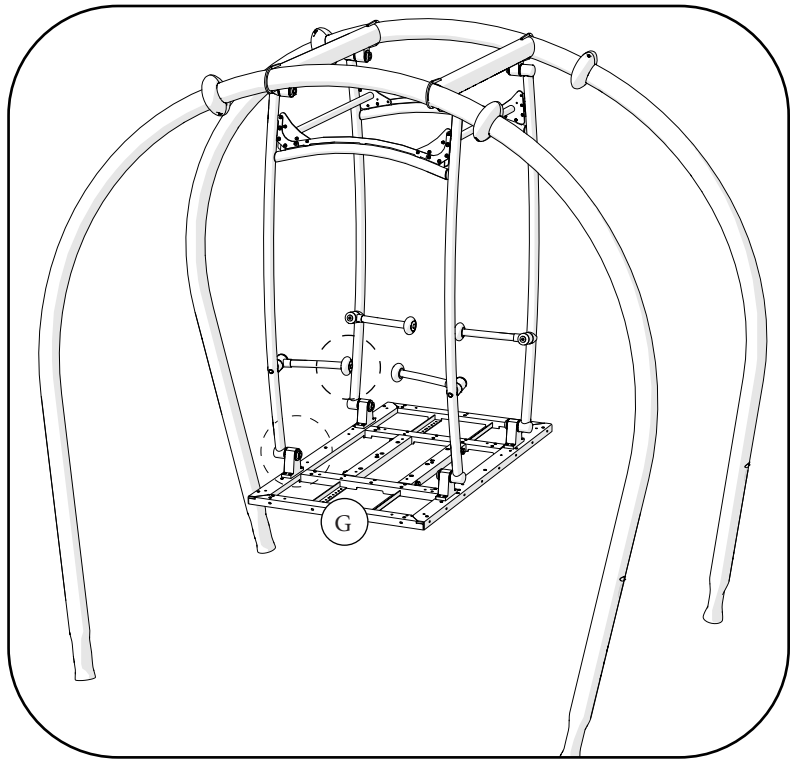
NOTE: Verify the legs are lined up with the swing frame ASM on both sides.
SECURE HARDWARE ONCE VERIFIED



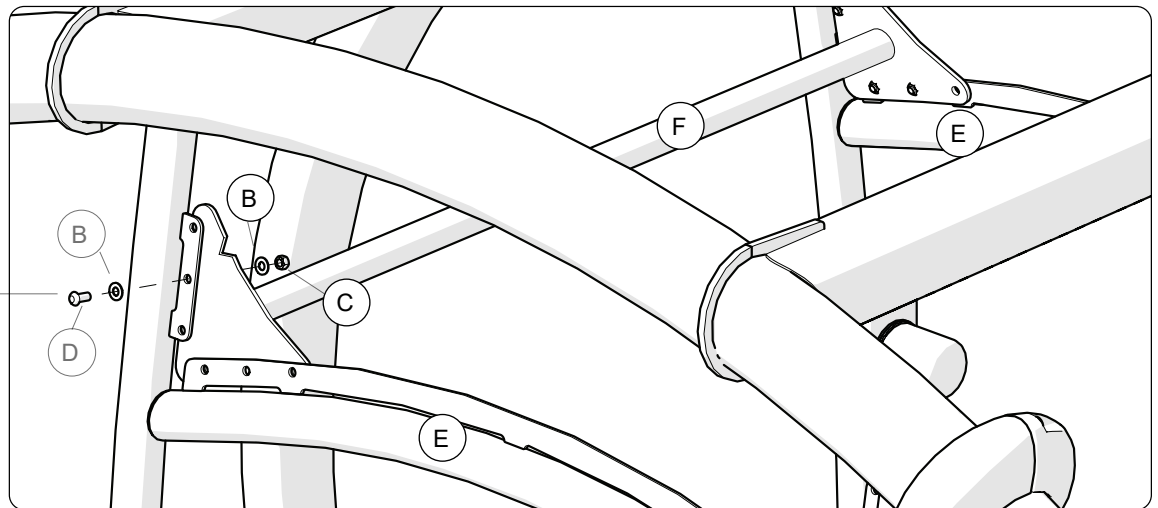


*	Part #	Description	Qty.
A	137779	Collar SST Sway Fun	8
B	121135	Spring Pin 1/4iodx2lg SST	8
C	123224	BHCS 6LP 3/8x1-11/16i SST	8
D	100365	3/8" SAE Washer	8
E	274909	Deck Mount Swing Pivot Anchor ASM	4

*	Part #	Description	Qty.
F	271755	Swing Arm Thrust Bearing	32
G	318463	Swing Arm Rh ASM	2
H	318464	Swing Arm Lh ASM	2
I	279176	5i Flange Cover Casting PNT	8



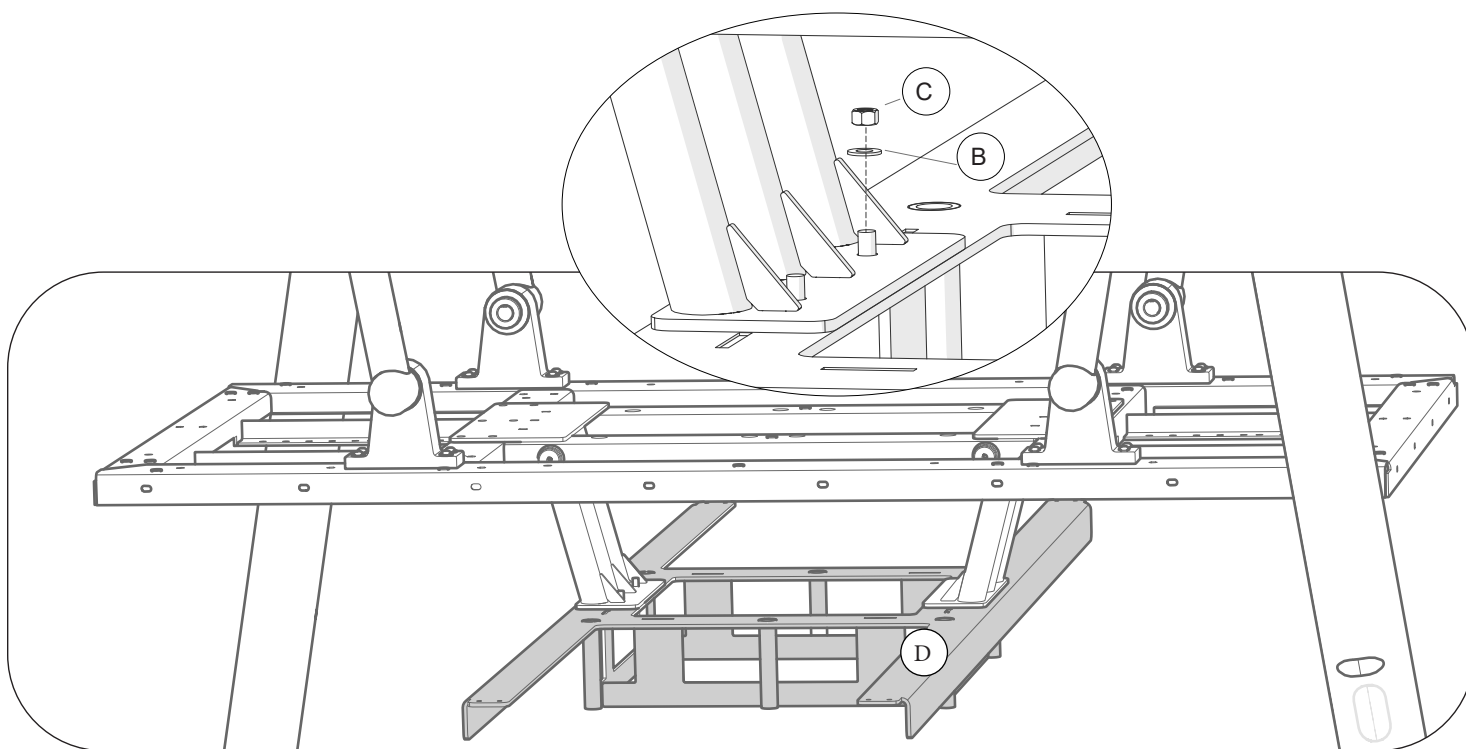
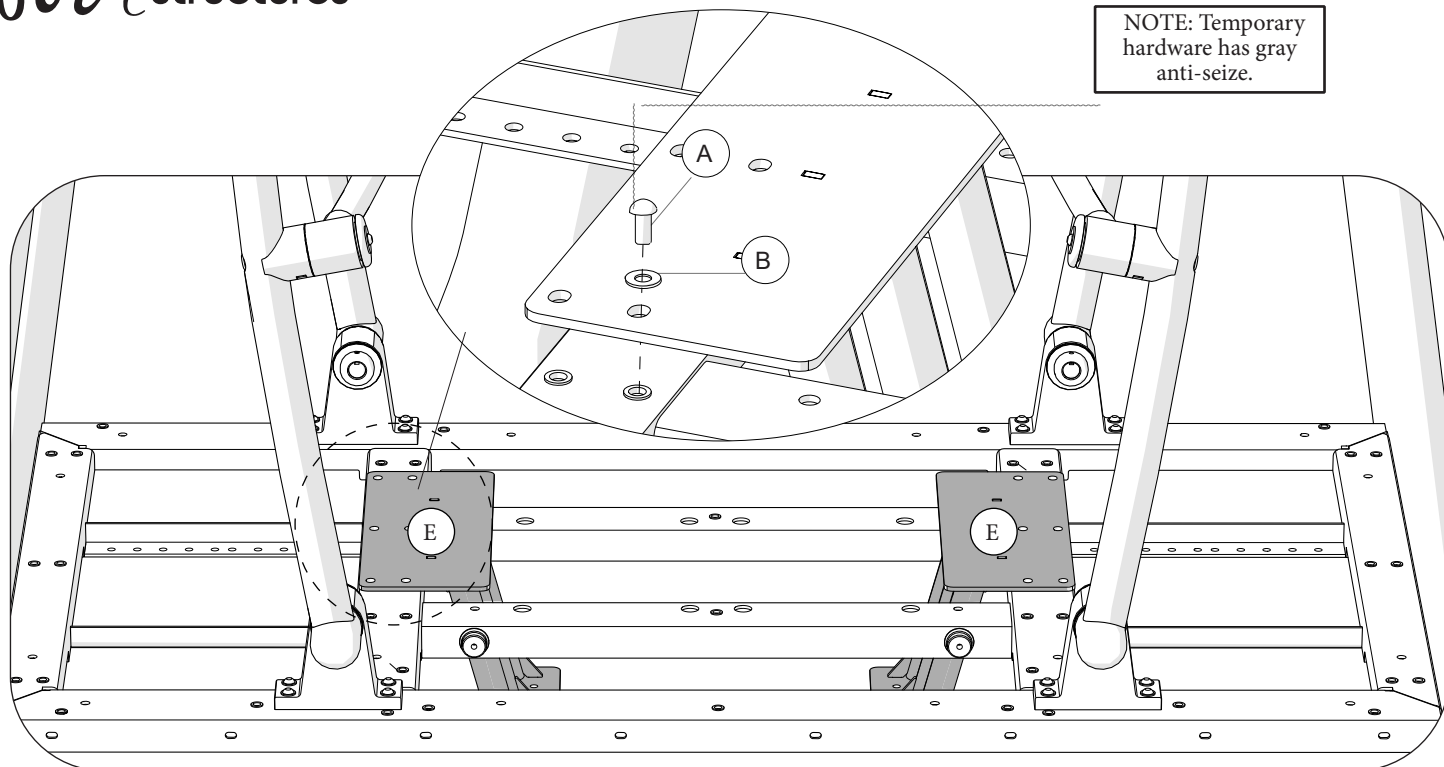
NOTE: Temporary hardware has gray anti-seize.



*	Part #	Description	Qty.
A	127549	3/8" x 1 1/16" Anti-Seize (Temporary)	16
B	100365	3/8" SAE Washer	68
C	100327	3/8" Standard Hex Nut	16
D	127546	3/8 x 7/8" Anti-Seize (Temporary)	16
E	274078	Swing arm brace	2

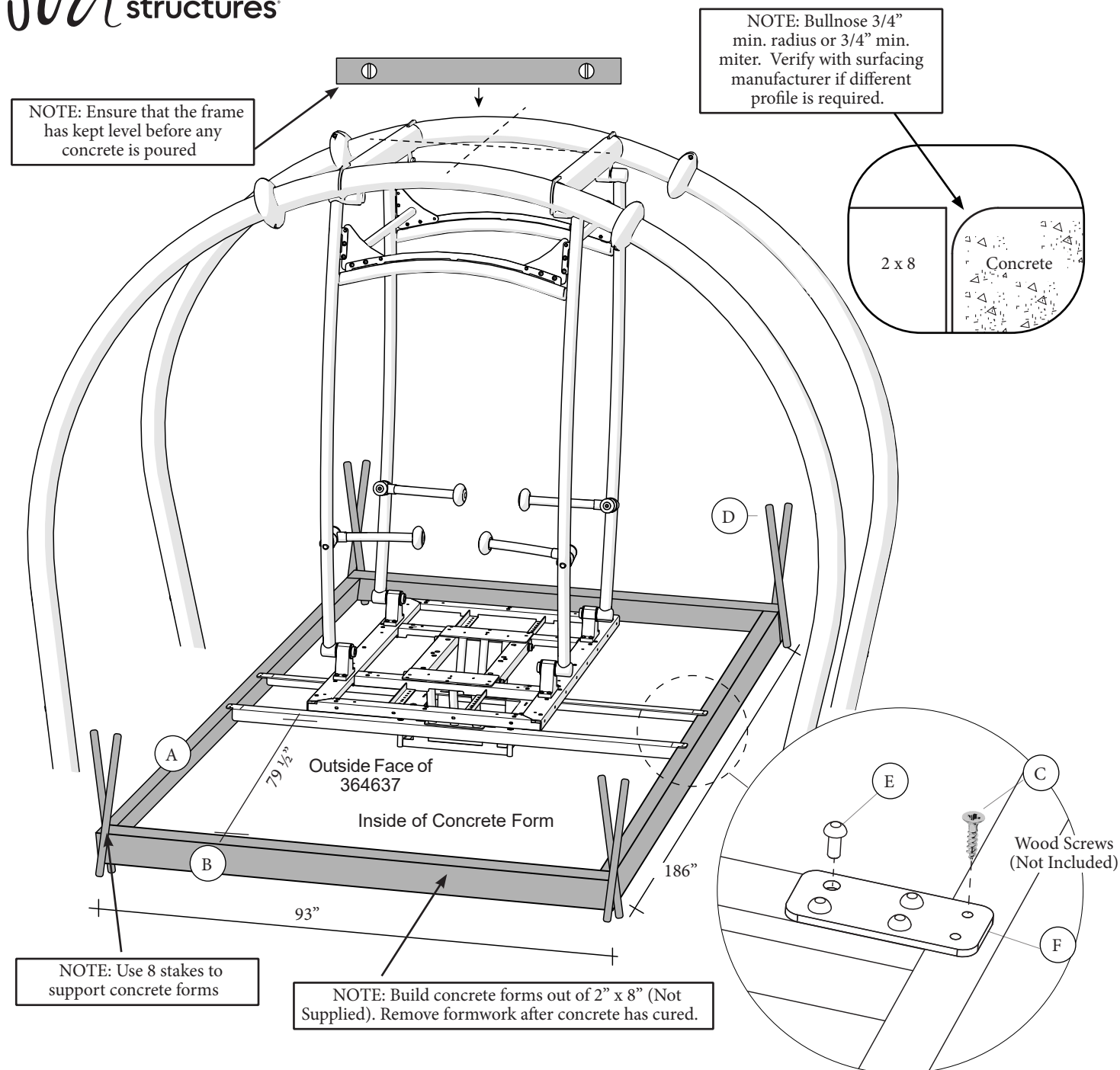
*	Part #	Description	Qty.
F	274935	Swing arm installation lock RED (Temporary)	2
G	364627	Deck support frame PNT	1
H	182262	Rung cap	4
I	100195	3/8 x 5/8" BHCS	4

NOTE: Temporary
hardware has gray
anti-seize.



*	Part #	Description	Qty.
A	127546	$\frac{3}{8}$ x $\frac{7}{8}$ " Anti-Seize (Temporary)	12
B	100365	$\frac{3}{8}$ " SAE Washer (Temporary)	16

*	Part #	Description	Qty.
C	100327	$\frac{3}{8}$ " Standard Hex Nut (Temporary)	4
D	364637	Anchor Cage Inclusive Swing	1
E	274936	Deck Installation Support (Temporary)	2

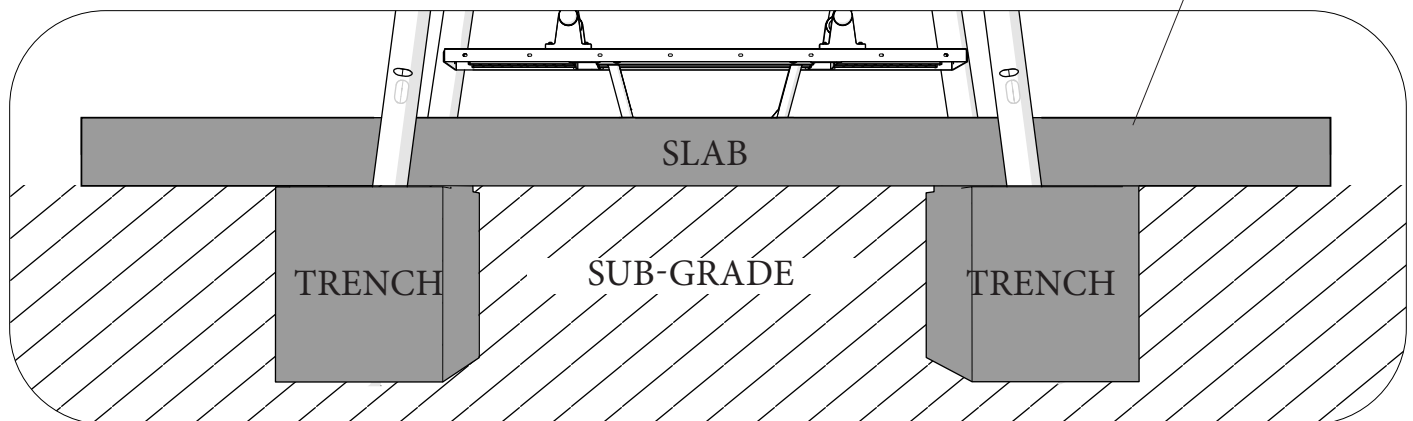
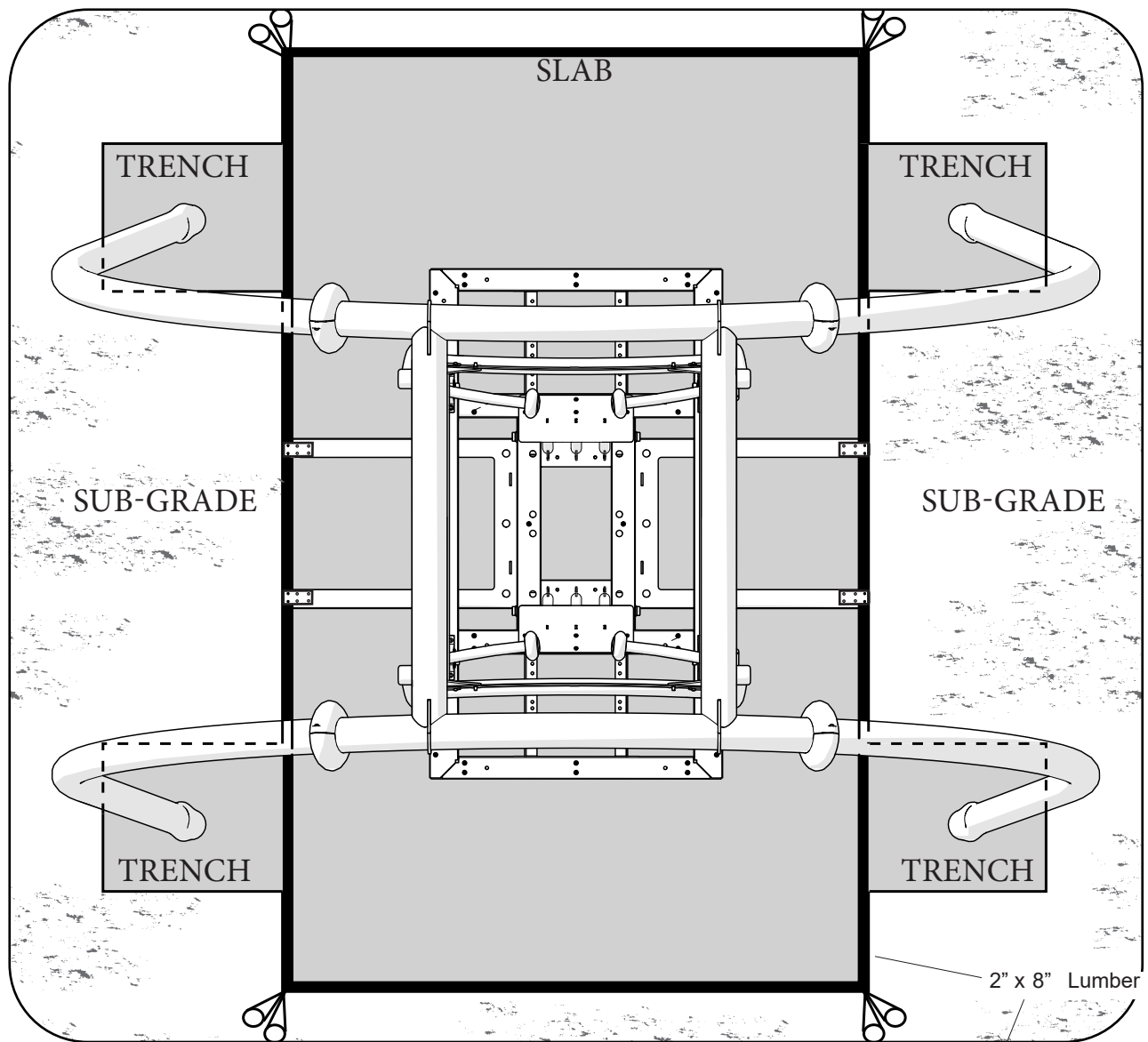


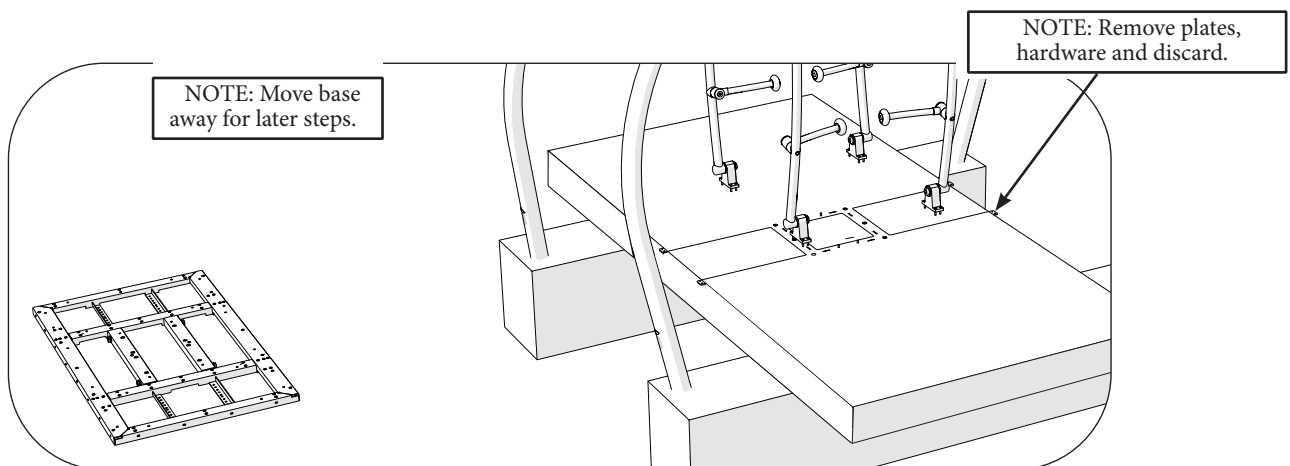
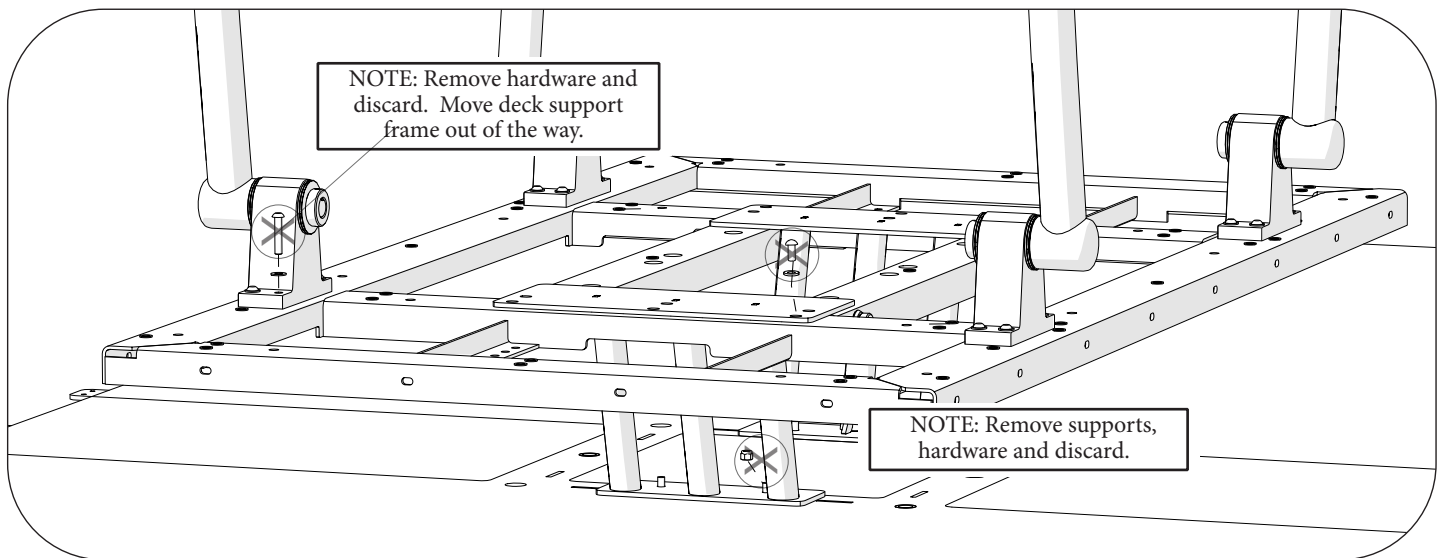
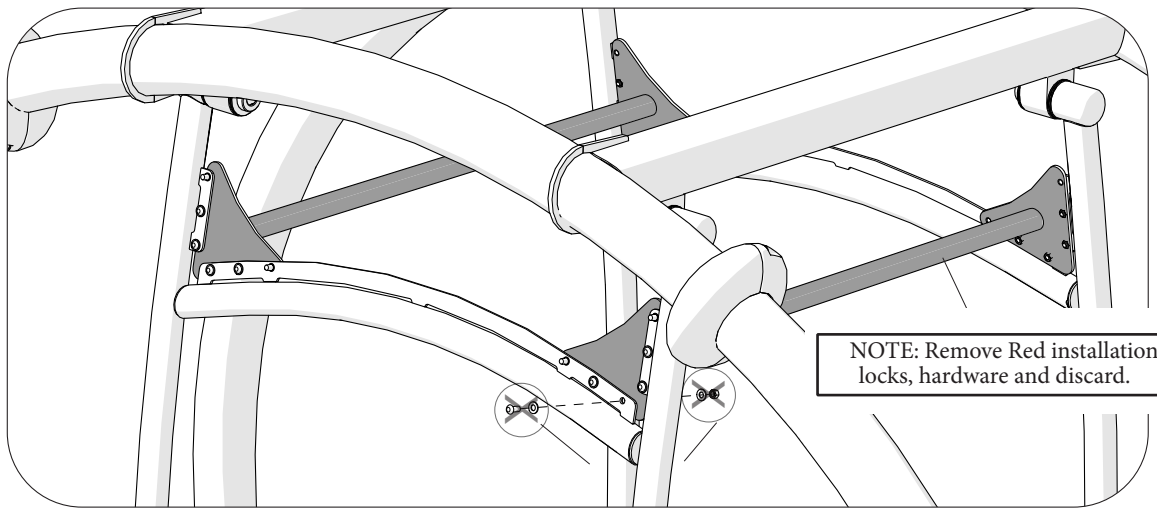
TOP OF THE FORM NEEDS TO BE 1-1/2" TO 2" BELOW FINISHED GRADE BASED ON SURFACING THICKNESS

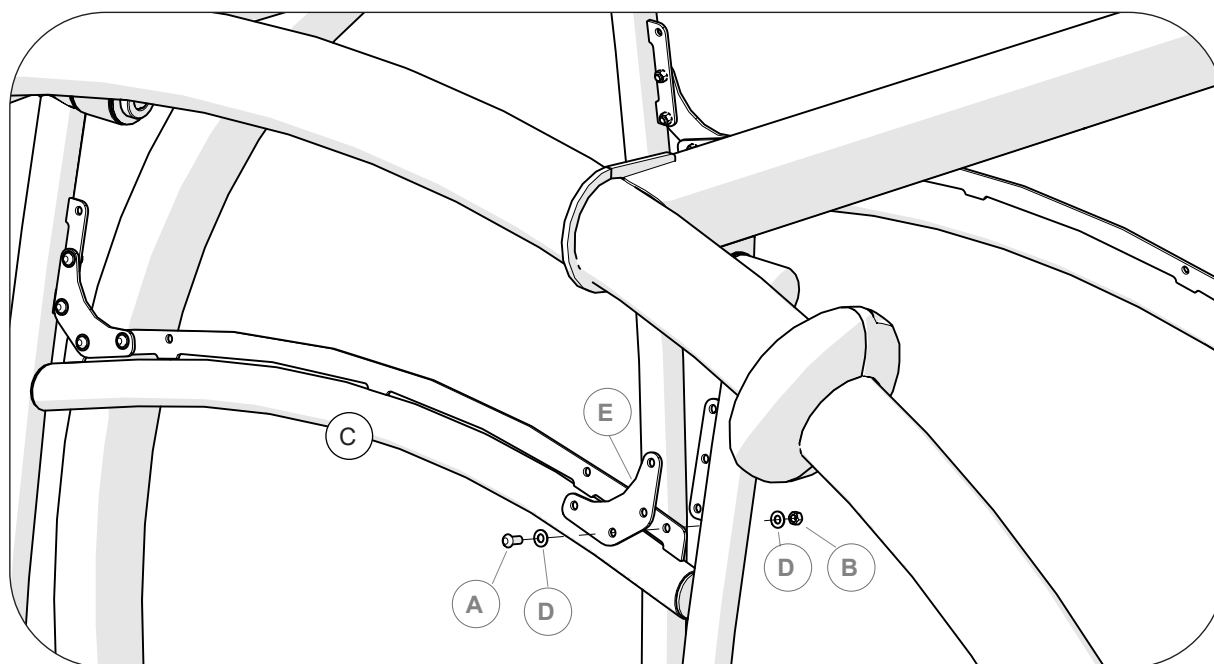
*	Part #	Description	Qty.
A	X	2" x 8" Lumber - 186" (Temporary)	2
B	X	2" x 8" Lumber - 93" (Temporary)	2
C	X	Wood Screws (Temporary)	X

*	Part #	Description	Qty.
D	X	Concrete Stakes (Temporary)	X
E	127546	3/8 x 7/8" Anti-Seize (Temporary)	16
F	364640	Anchor Cage Plate, RED (Temporary)	4

SINGLE POUR CONCRETE

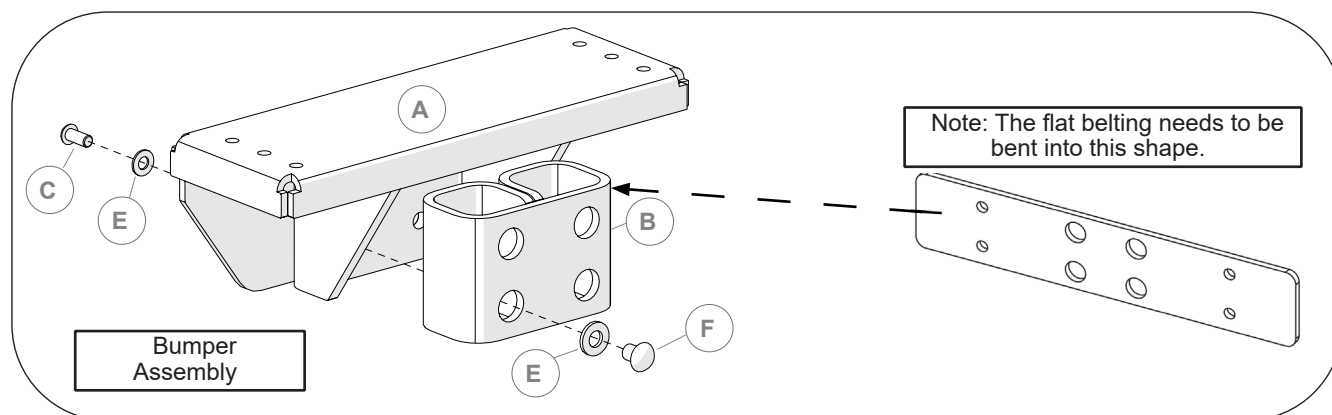






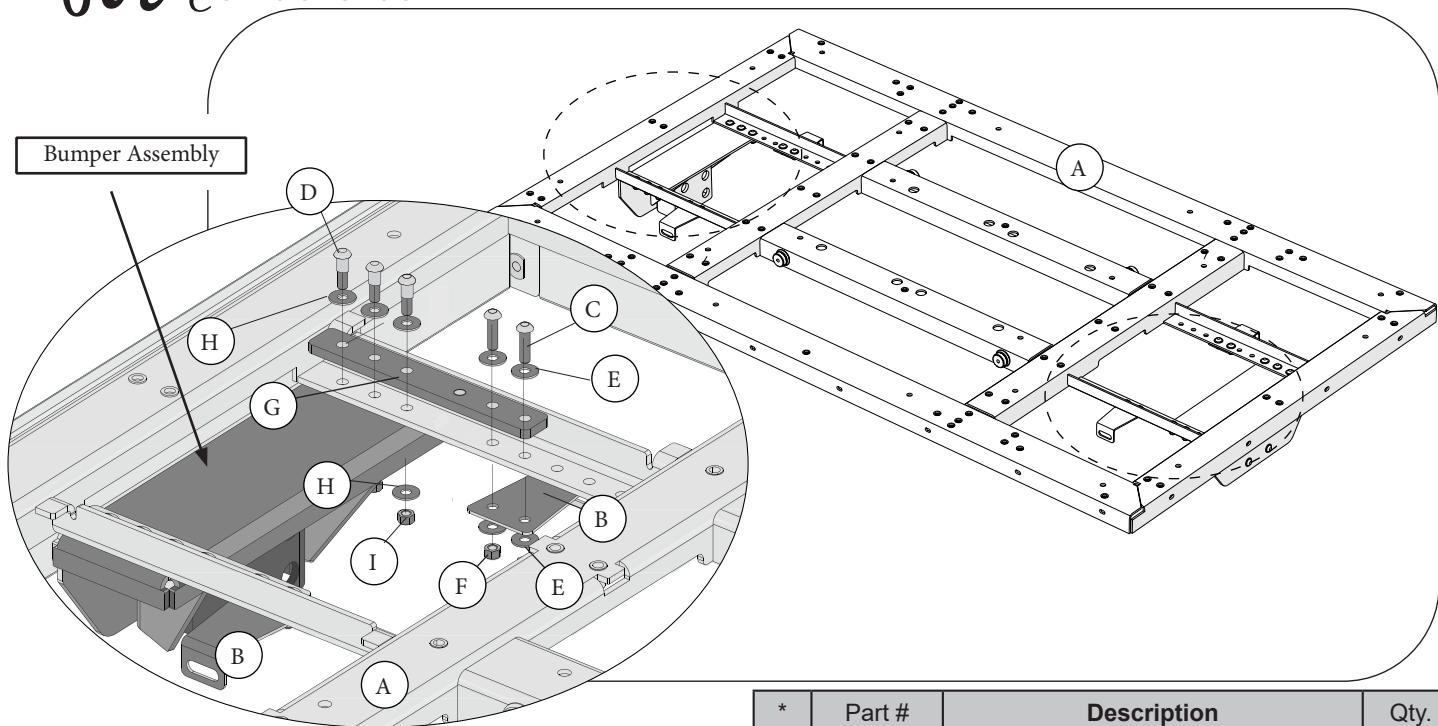
*	Part #	Description	Qty.
A	100196	$\frac{3}{8}$ x $\frac{7}{8}$ " BHCS	16
B	100327	$\frac{3}{8}$ " Standard Hex Nut	16
C	274078	Swing arm brace	2

*	Part #	Description	Qty.
D	100365	$\frac{3}{8}$ " SAE Washer	32
E	278682	Swing Arm Mending Plt	4



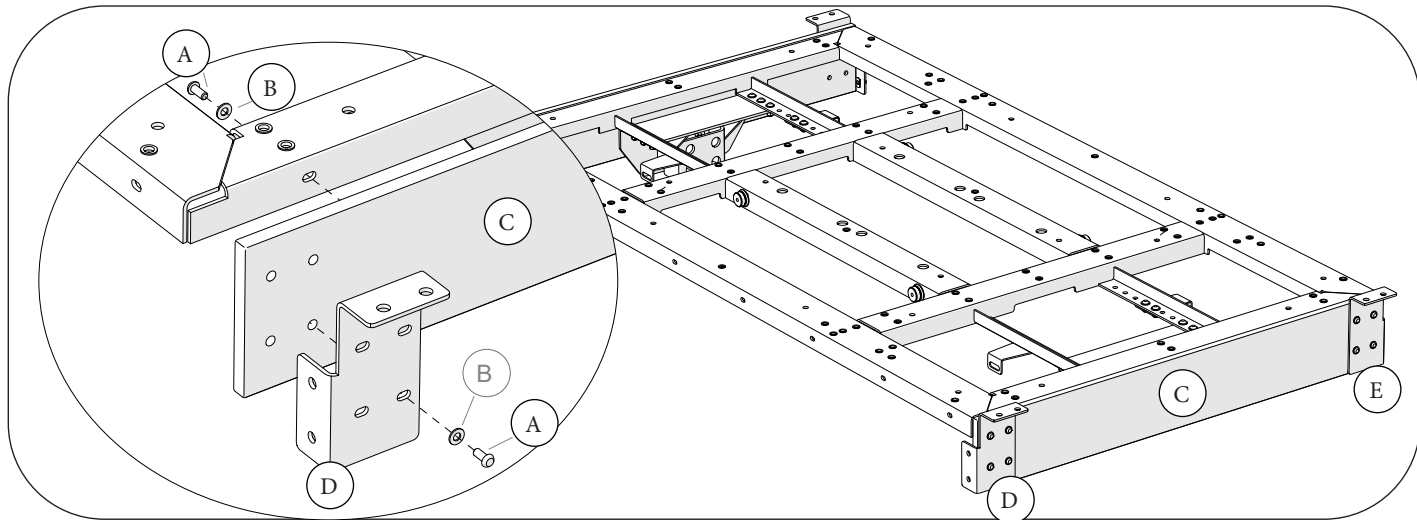
*	Part #	Description	Qty.
A	275593	Hard Stop Bracket	2
B	279974	Belt Bumper Stop	2
C	100196	$\frac{3}{8}$ X $\frac{7}{8}$ " BHCS	8

*	Part #	Description	Qty.
D	100365	$\frac{3}{8}$ " SAE Washer	8
E	113550	Washer Flat SAE 1/2i SST	8
F	100353	Flg Nut 6lp 3/8-16 SST	8



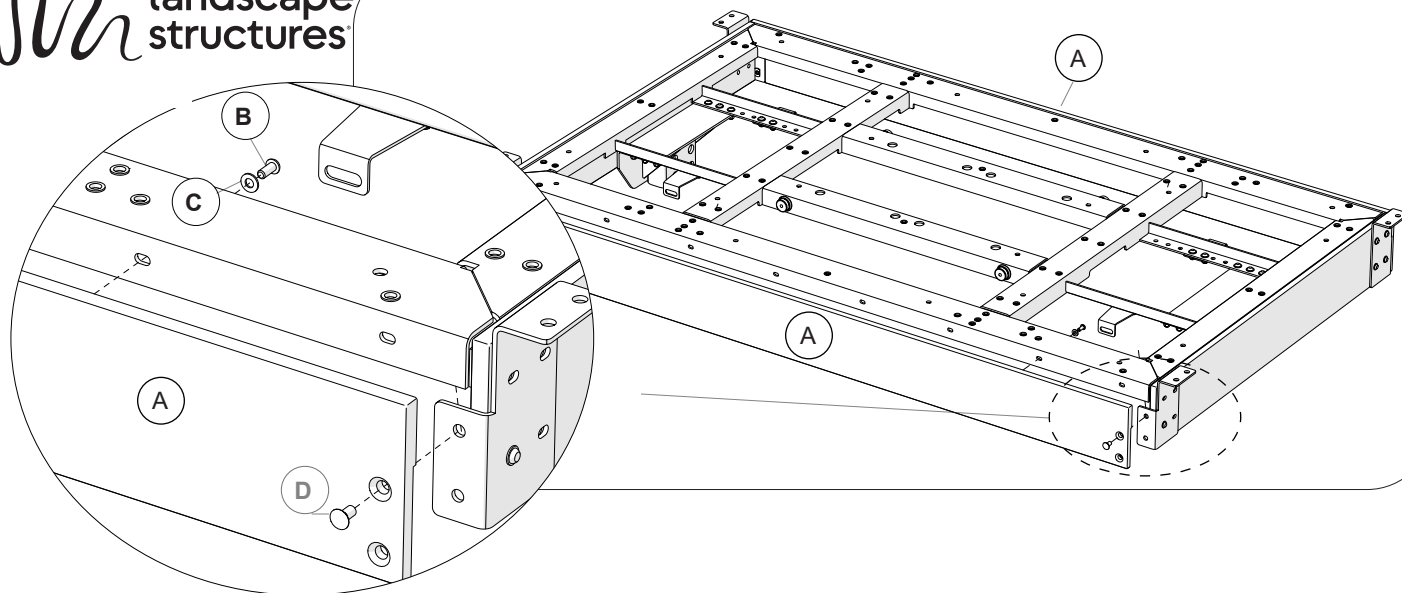
*	Part #	Description	Qty.
A	364627	Deck Support Frame Pnt	1
B	278564	Linkage Brkt Pnt	4
C	113027	$\frac{3}{8}$ x $1\frac{3}{8}$ " BHCS	8
D	234397	BHCS 6lp LTHD 7/16 x 1.688"	12

*	Part #	Description	Qty.
E	100362	$\frac{3}{8}$ " FLAT Washer	16
F	100327	$\frac{3}{8}$ " Standard Hex Nut	8
G	284809	Soft stop frame doubler	4
H	112793	Washer Flat 7/16i SST	24
I	100330	Nut Hex Nylok 7/16 - 14 SST	12



*	Part #	Description	Qty.
A	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS	24
B	223956	$\frac{5}{16}$ " SAE Flat Washer	24
C	271541	Deck Skirt End	2

*	Part #	Description	Qty.
D	277802	Swing Skirt Corner Bracket LH	2
E	277856	Swing Skirt Corner Bracket RH	2

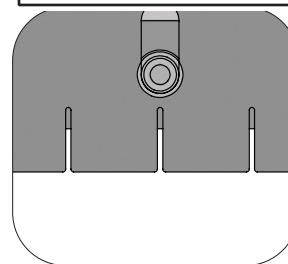


*	Part #	Description	Qty.
A	271540	Deck Skirt Side	2
B	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS	16

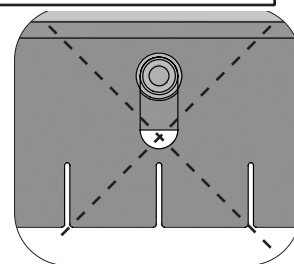
*	Part #	Description	Qty.
C	223956	$\frac{5}{16}$ " SAE Flat Washer	16
D	148686	FHCS 6lp 3/8x3/4i SST	8

NOTE: When artificial turf is being used for protective surfacing, do not install the sweeps

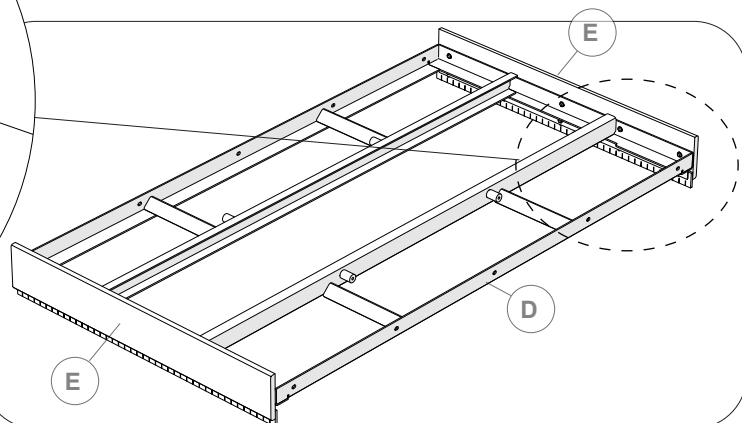
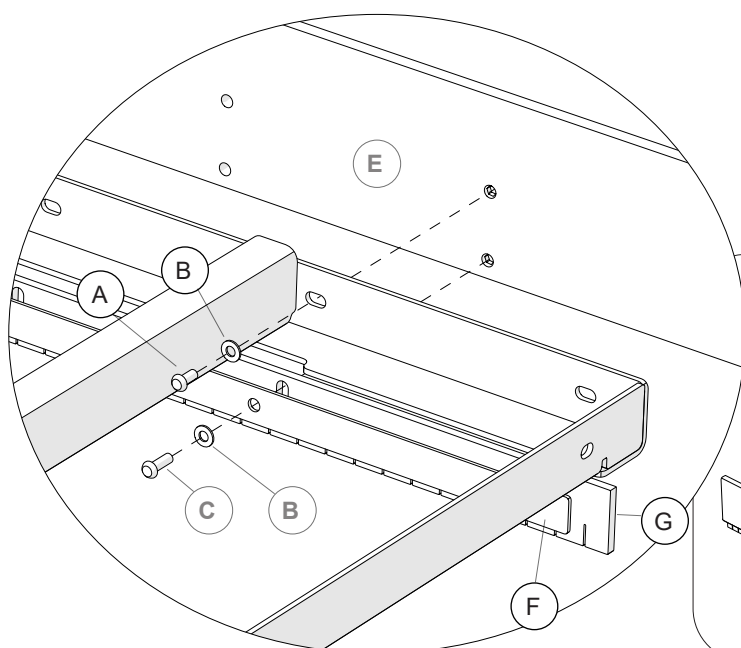
NOTE: SWEEPER NEEDS TO BE POSITIONED AT THE BOTTOM OF THE SLOTS



RIGHT



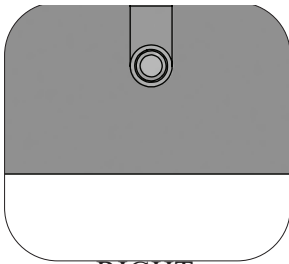
WRONG



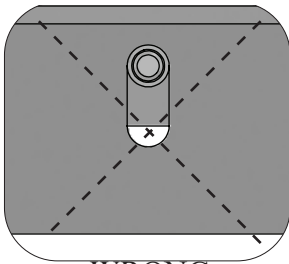
*	Part #	Description	Qty.
A	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS Torx	10
B	223956	$\frac{5}{16}$ " SAE Flat Washer	20
C	264971	$\frac{5}{16}$ " - 18 x 1"	10
D	271624	Trolley Track Frame	1

*	Part #	Description	Qty.
E	272545	Trolley Frame End Side Skirt	2
F	274943	End Sweep Plate	2
G	274942	End Sweep (Black belt)	2

NOTE: SWEEPER NEEDS TO BE POSITIONED AT THE BOTTOM OF THE SLOTS

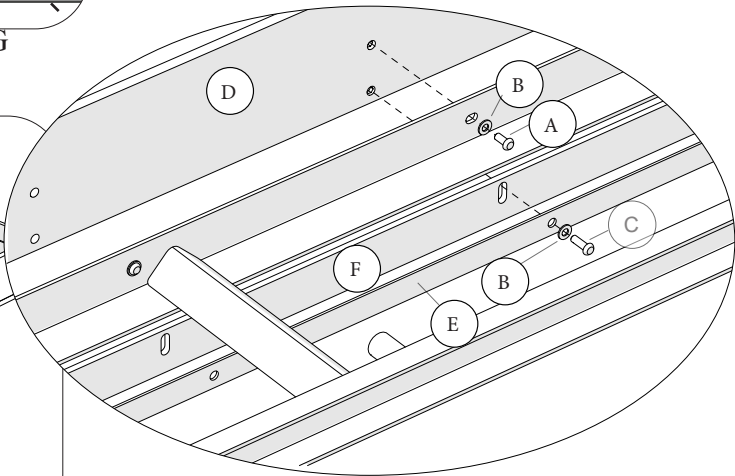
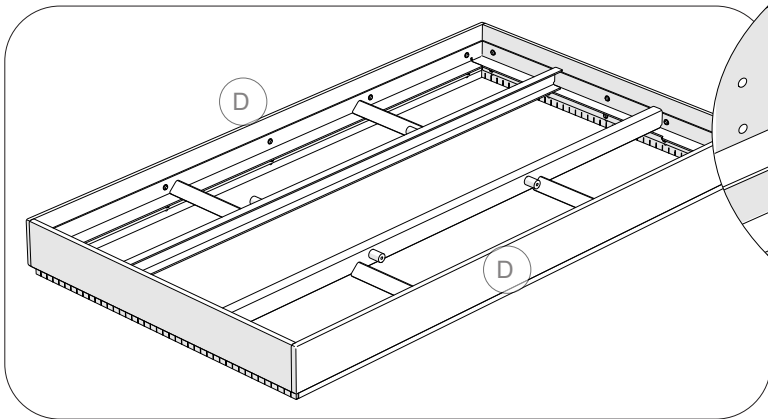


RIGHT



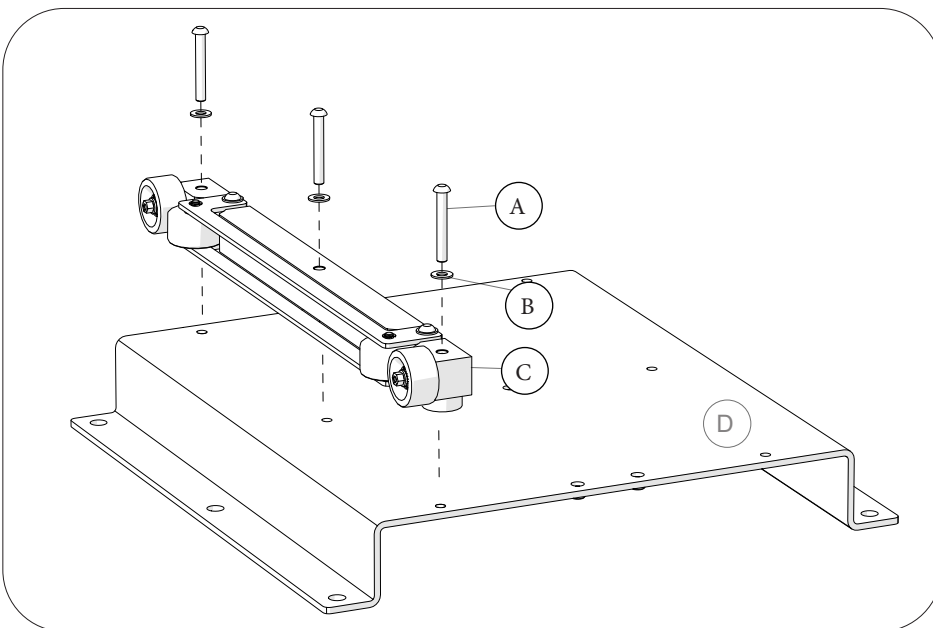
WRONG

NOTE: When artificial turf is being used for protective surfacing, do not install the sweeps



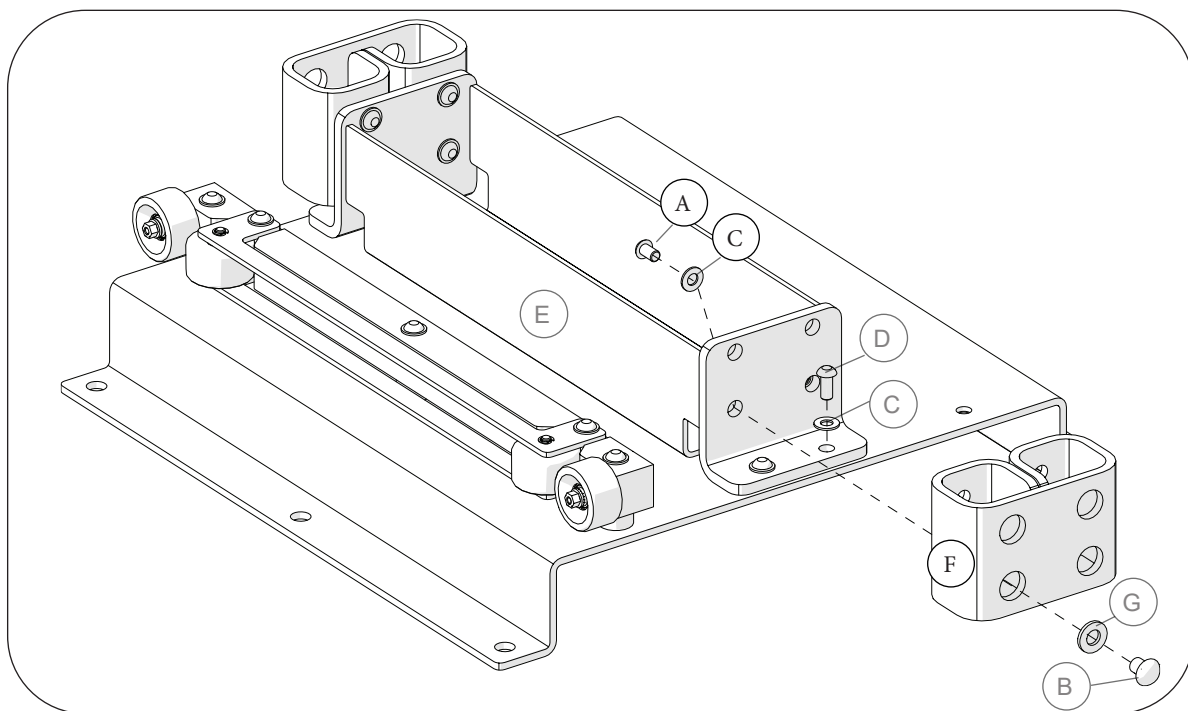
*	Part #	Description	Qty.
A	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS Torx	10
B	223956	$\frac{5}{16}$ " SAE Flat Washer $\frac{5}{16}$ "	20
C	264971	$\frac{5}{16}$ " - 18 x 1"	10

*	Part #	Description	Qty.
D	272544	Trolley frame side skirt	2
E	274941	Side sweeper plate	2
F	274940	Side sweeper (Black belt)	2



*	Part #	Description	Qty.
A	100175	3/8x2-3/4i	3
B	100365	3/8" SAE Washer	3

*	Part #	Description	Qty.
C	275657	Trolley Assembly	1
D	358809	Track Base Pnt	1

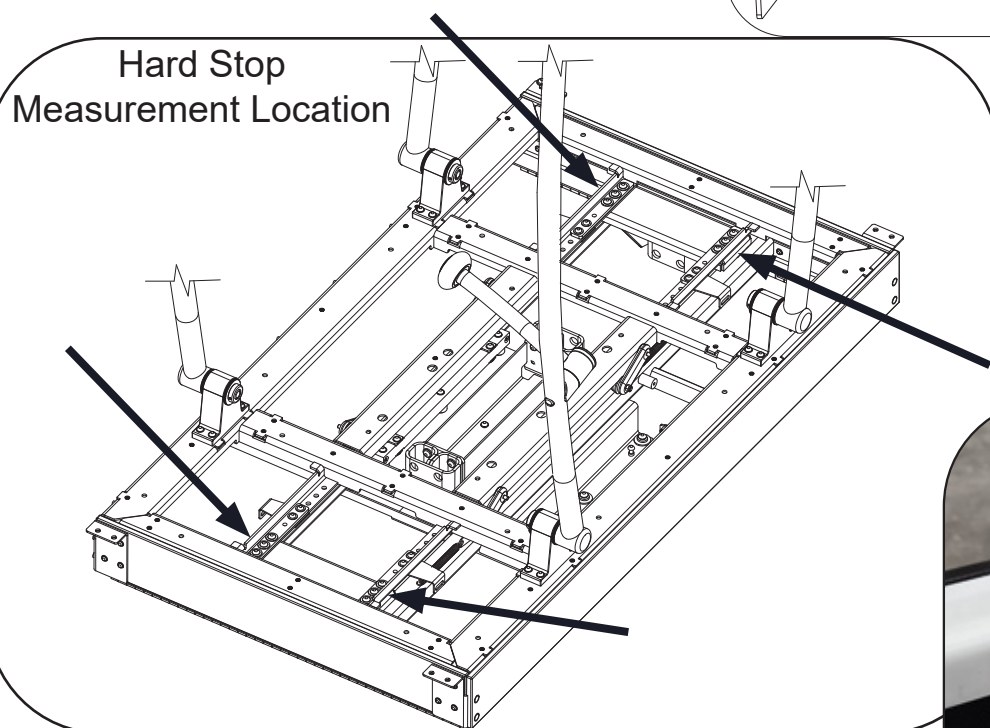
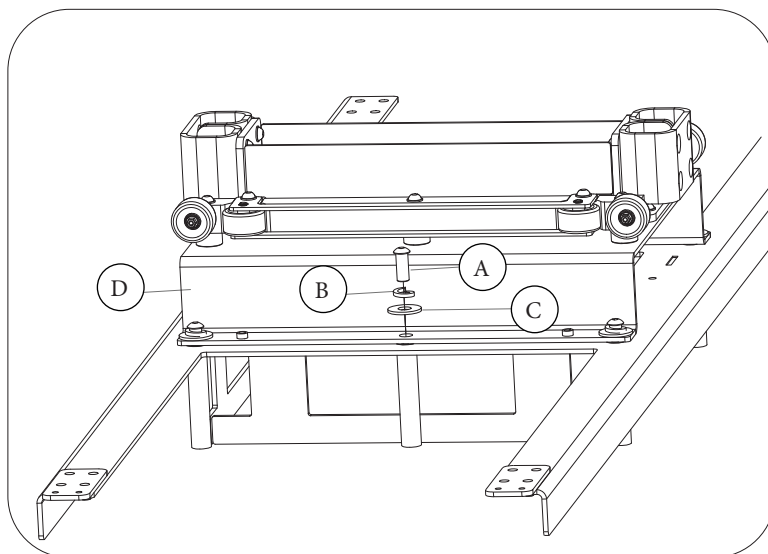


*	Part #	Description	Qty.
A	100195	3/8 x 5/8" BHCS	8
B	100353	Flg Nut 6lp 3/8-16 SST	8
C	100365	3/8" SAE Washer	14

*	Part #	Description	Qty.
D	100196	3/8 x 7/8" BHCS	6
E	273329	Soft Stop Frame	1
F	279974	Belt Bumper Stop	2
G	113550	Washer Flat SAE 1/2i SST	8

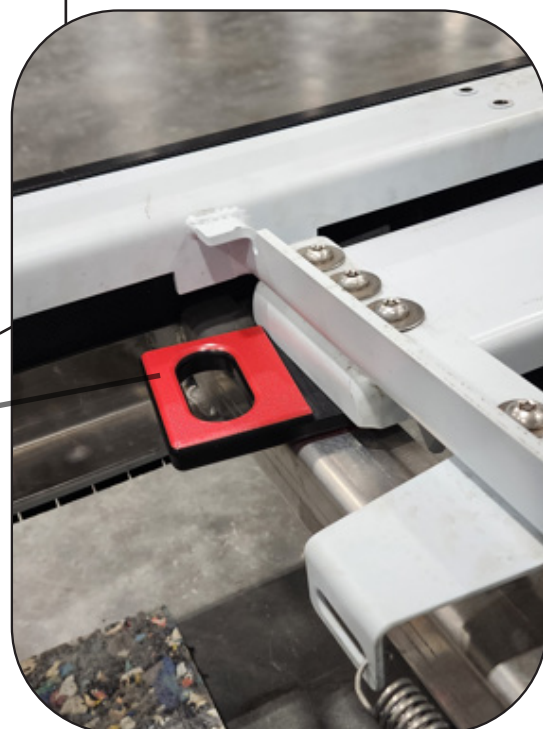
**STEP 1: LOOSELY INSERT
THE BOLTS 1-2 THREADS,
LEAVING THEM LOOSE.**

*	Part #	Description	Qty.
A	127551	5/8 x 1 1/2 BHCS w/anti-Seize	6
B	175652	Washer Lock Spring 5/8i SST	6
C	100366	Washer Flat 5/8i	6
D	358809	Track Base Pnt	1



**STEP 2: POSITION THE 1/2" WE-GO TEMP
SPACER IN ALL 4 LOCATIONS SHOWN BY
THE ARROWS, BETWEEN THE HARD STOP
BRACKET AND THE TROLLEY TRACK
FRAME.**

*	Part #	Description	Qty.
A	358597	1/2" We-Go Temp Spacer (Temporary)	4

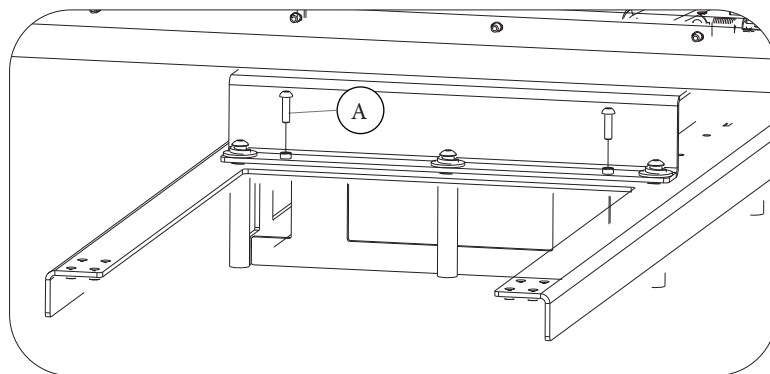


STEP 3:

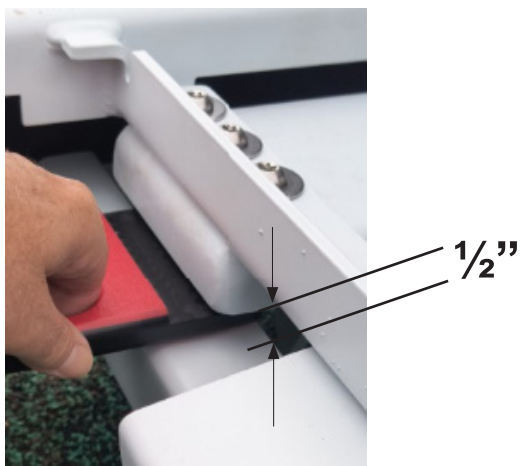
- SCREW IN LEVELING BOLTS TO RAISE THE TRACK BASE.

- EACH LEVELING BOLT SHOULD BE RAISED A SHORT DISTANCE THEN MOVE ONTO THE NEXT, AS THE TRACK BASE IS EVENLY RAISED.

**- HAND TIGHTEN ONLY.
DO NOT OVERTORQUE.**



*	Part #	Description	Qty.
A	127548	3/8 x 1 3/8 BHCS w/Anti-Seize (Temporary)	4



STEP 4:

- THE BASE IS RAISED TO THE CORRECT HEIGHT WHEN ALL 4 WE-GO TEMP SPACERS ARE IN CONTACT WITH THE TROLLEY TRACK FRAME AND THE HARD STOP BRACKET.

- THE WE-GO TEMP SPACERS SHOULD BE A LOOSE FIT AND NOT OVERLY SNUG. DO NOT OVERTIGHTEN THE LEVELING BOLTS.

STEP 5:

**- ADD A SERIES OF WE-GO SHIM SPACERS
UNDER EACH BOLT LOCATION.**

- NOTE, THE STACK HEIGHT MAY VARY.

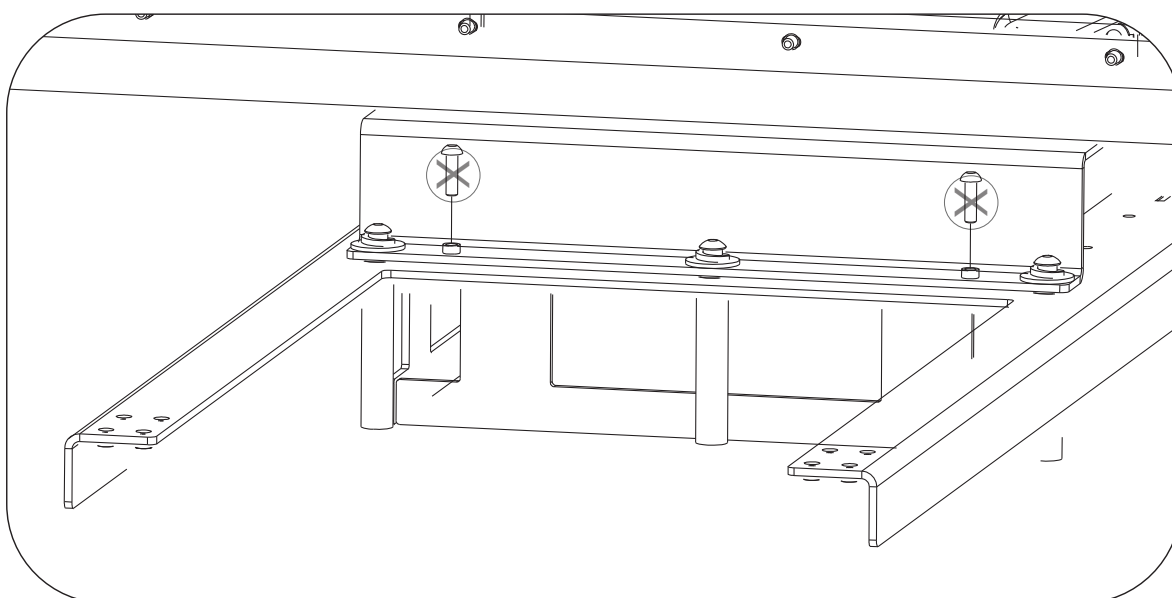
*	Part #	Description	Qty.
A	358601	We-Go Shim Spacers	25

A

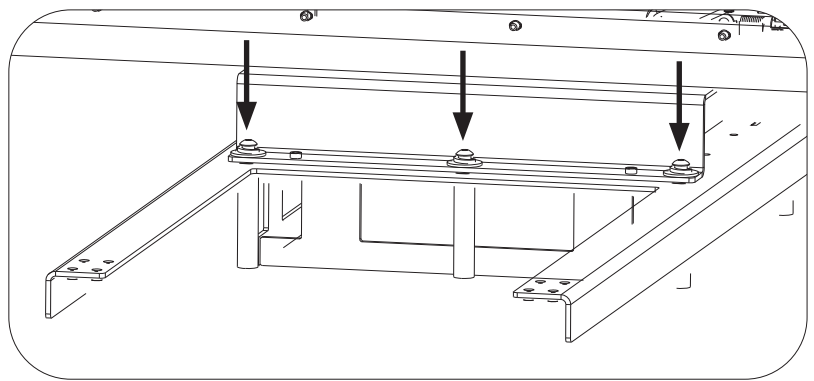


STEP 6:

- REMOVE THE 4 LEVELING BOLTS

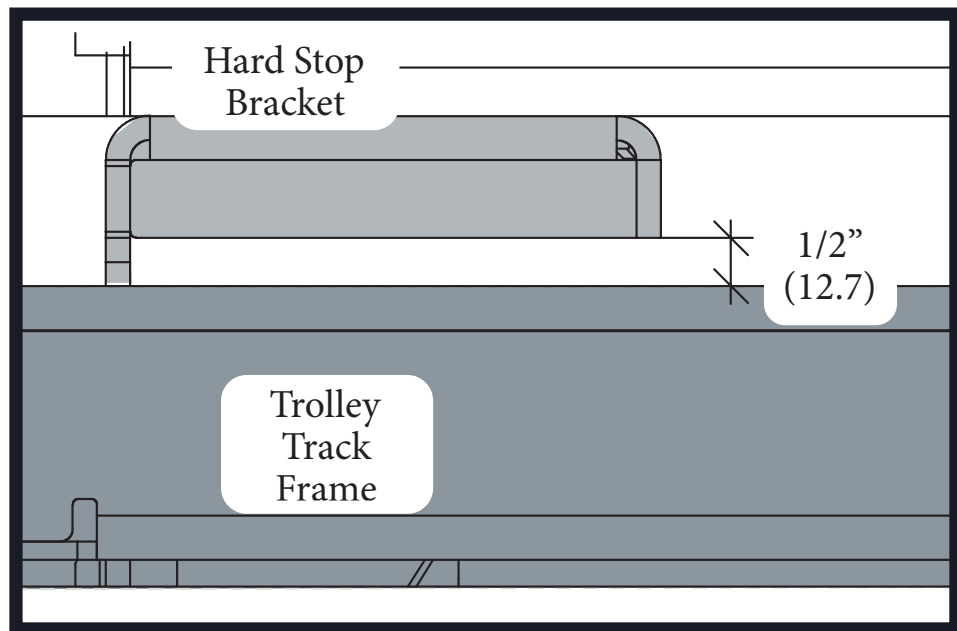


STEP 7:
- TIGHTEN (6) 5/8" BHCS TO 50
FT-LBS

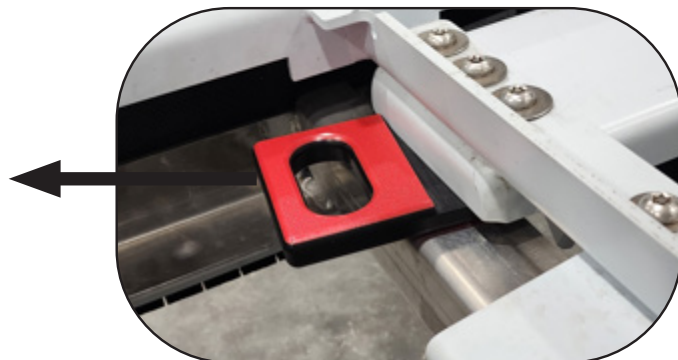


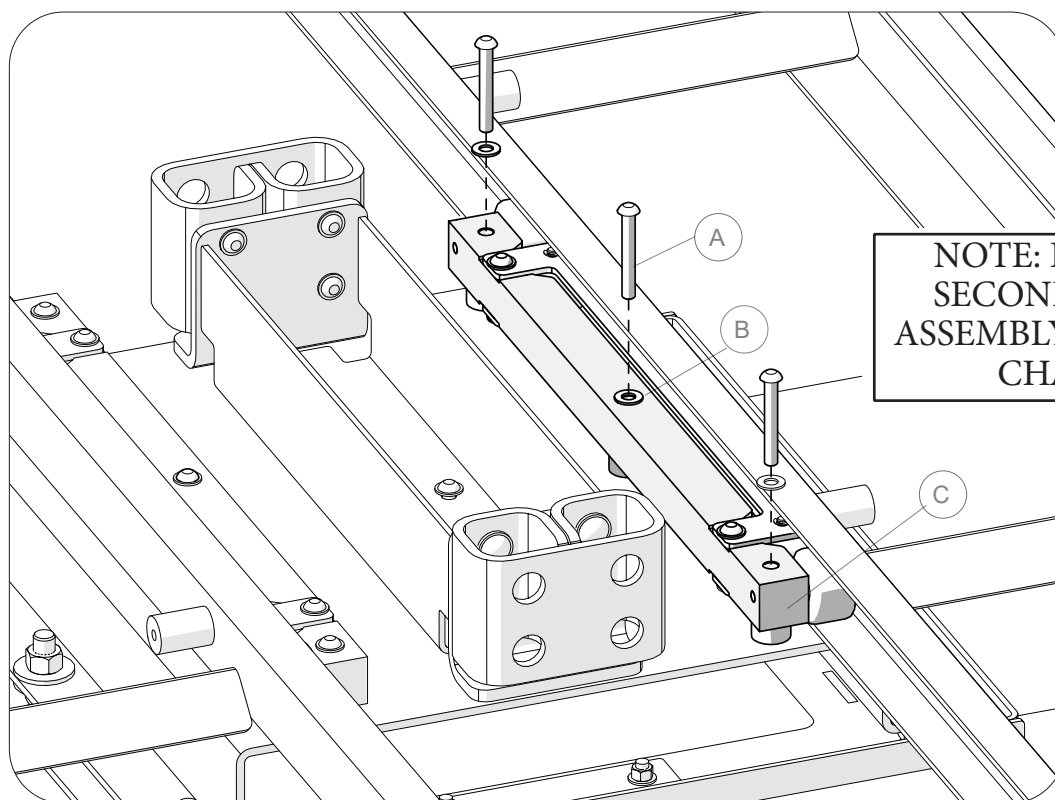
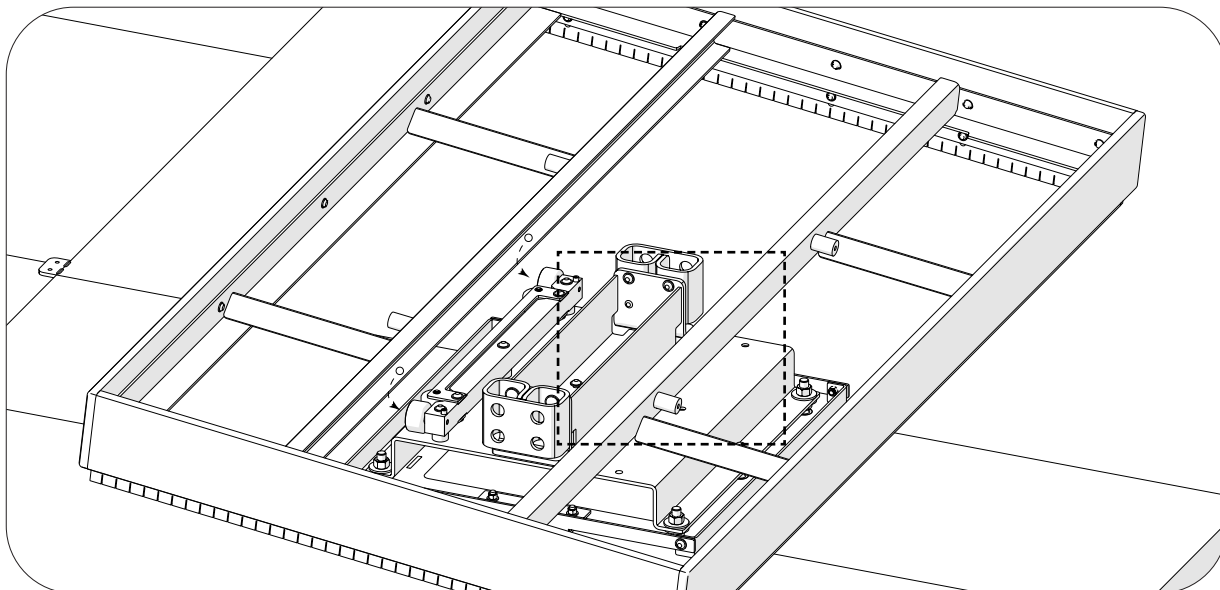
Hard Stop Measurement Location
Side View

- CRITICAL: VERIFY GAP IS
STILL 1/2"



- REMOVE THE 4 WE-GO TEMP
SPACERS

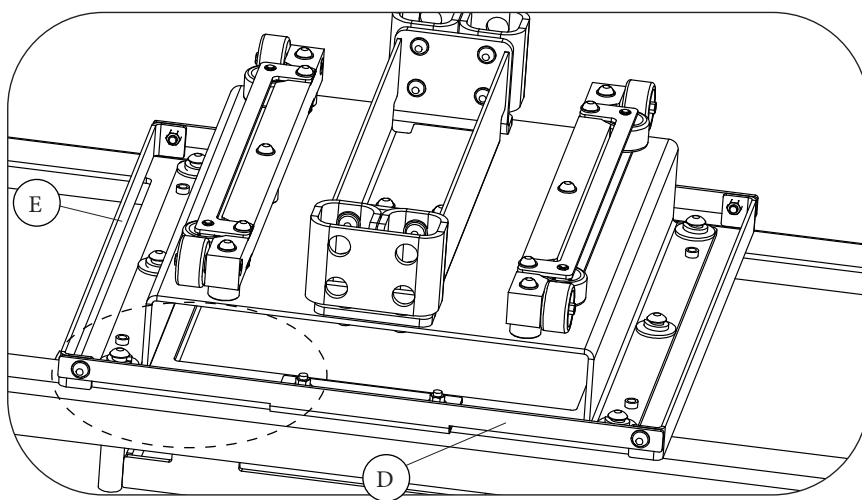
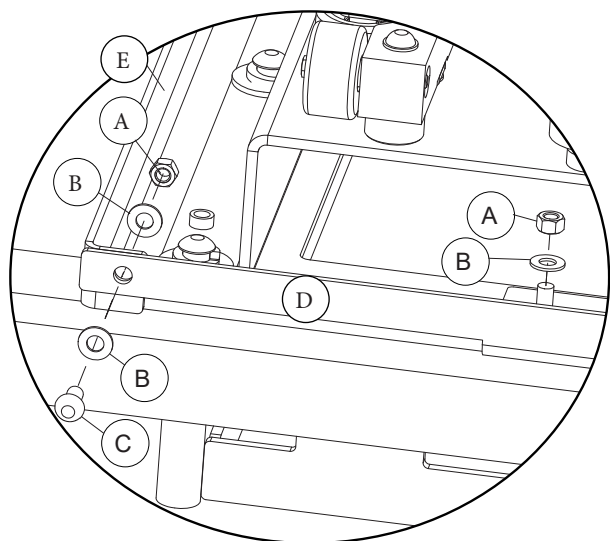




NOTE: INSERT THE
SECOND TROLLEY
ASSEMBLY INTO THE C
CHANNEL

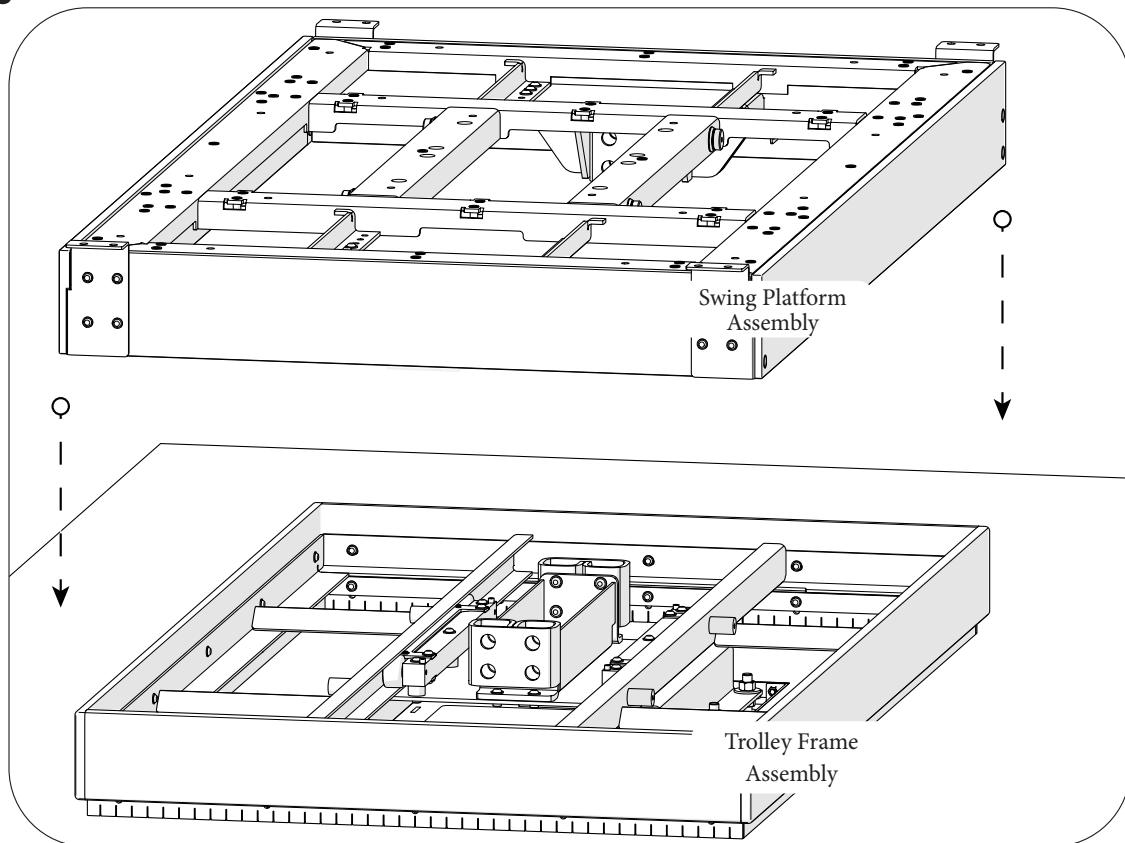
*	Part #	Description	Qty.
A	100175	3/8x2-3/4i	3
B	100365	3/8" SAE Washer	3

*	Part #	Description	Qty.
C	275657	Trolley Assembly	1

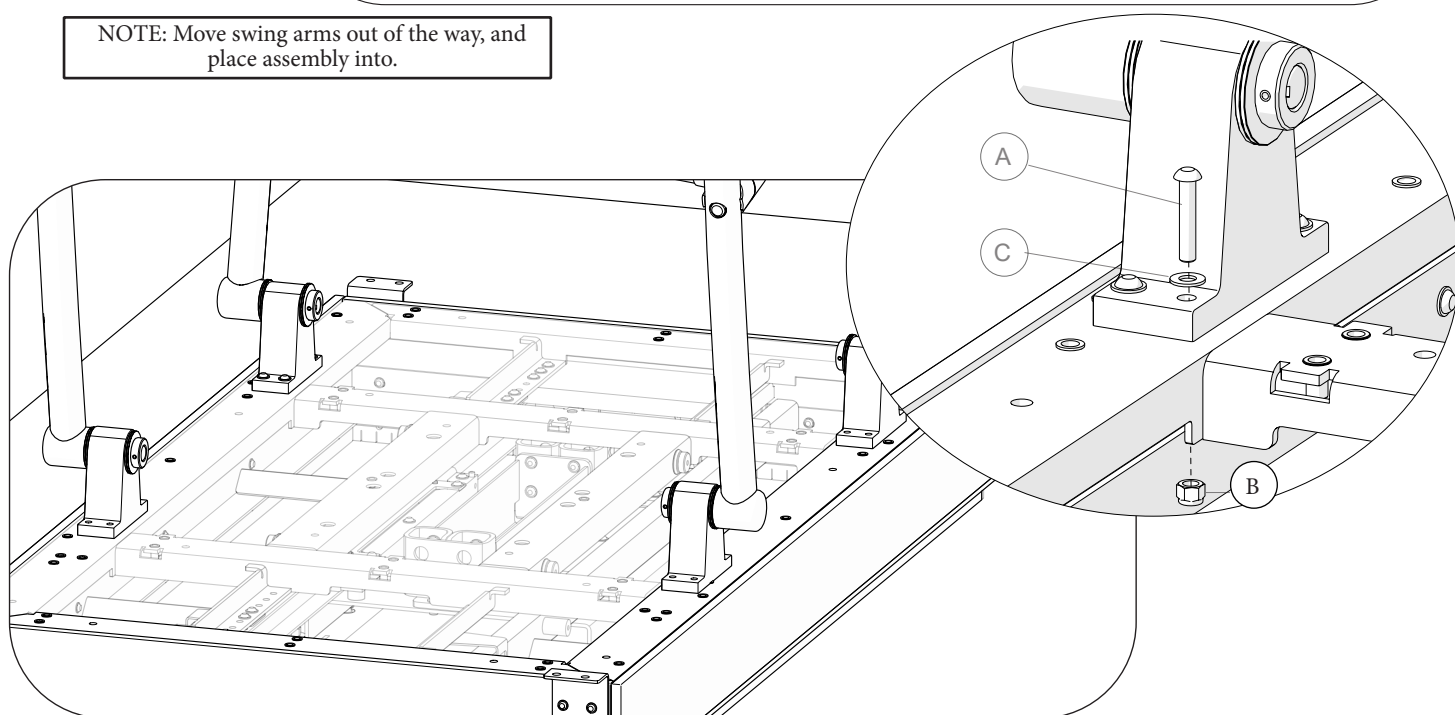


*	Part #	Description	Qty.
A	100327	$\frac{3}{8}$ " Standard Hex Nut	8
B	100365	$\frac{3}{8}$ " SAE Washer	12
C	100196	$\frac{3}{8}$ x $\frac{7}{8}$ " BHCS	4

*	Part #	Description	Qty.
D	274939	Surfacing Trowel Bracket	2
E	281818	Surfacing Trowel Bracket 2	2



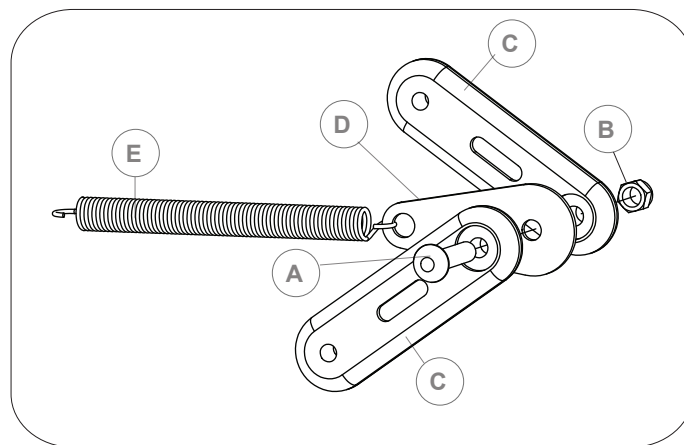
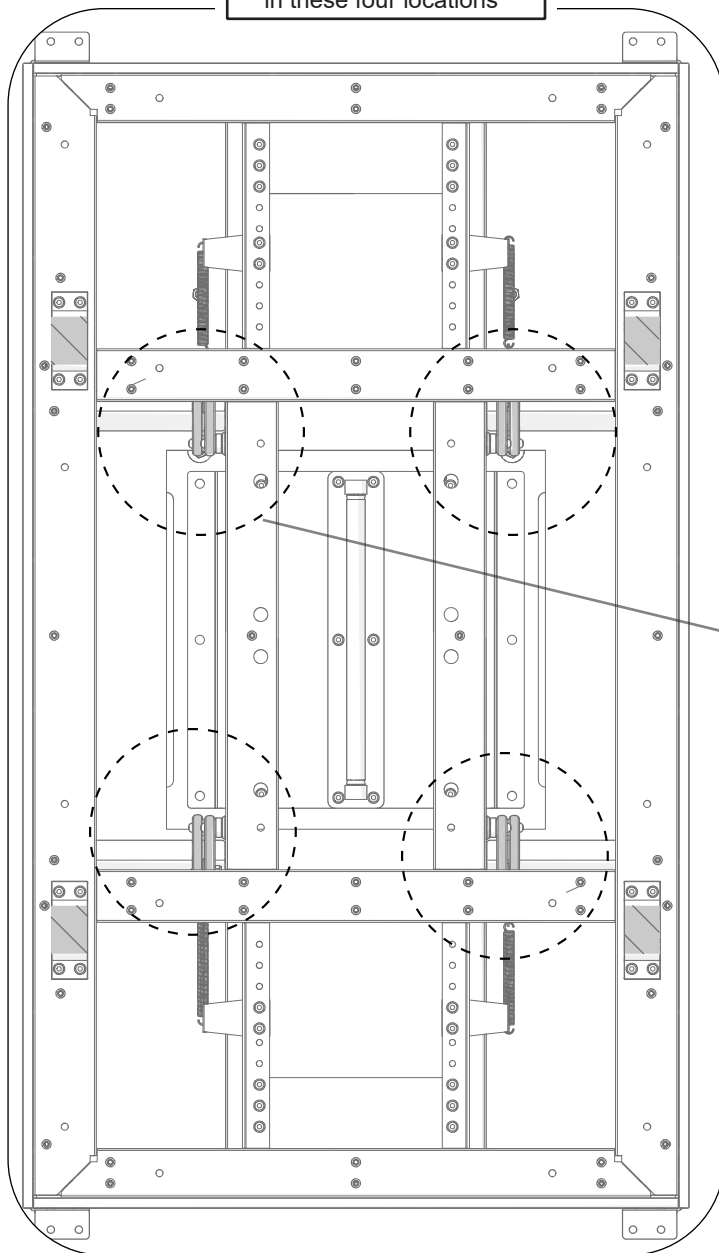
NOTE: Move swing arms out of the way, and place assembly into.



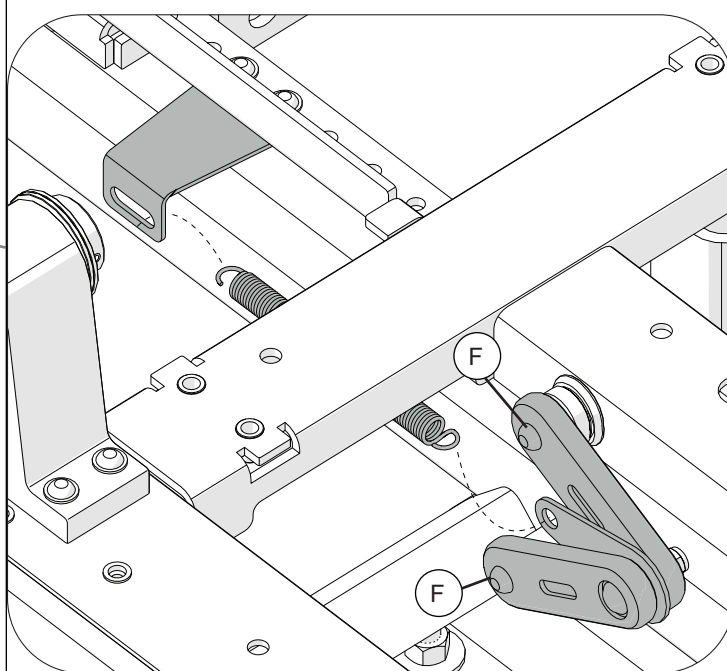
*	Part #	Description	Qty.
A	100175	3/8x2i SST Pat	16
B	136931	Nut Hex Nylok 3/8-16	16

*	Part #	Description	Qty.
C	100365	3/8" SAE Washer	16

NOTE: Spring Assembly is
in these four locations



NOTE: Spring Assembly



NOTE: Spring Assembly location. Spring
is under tension at rest.

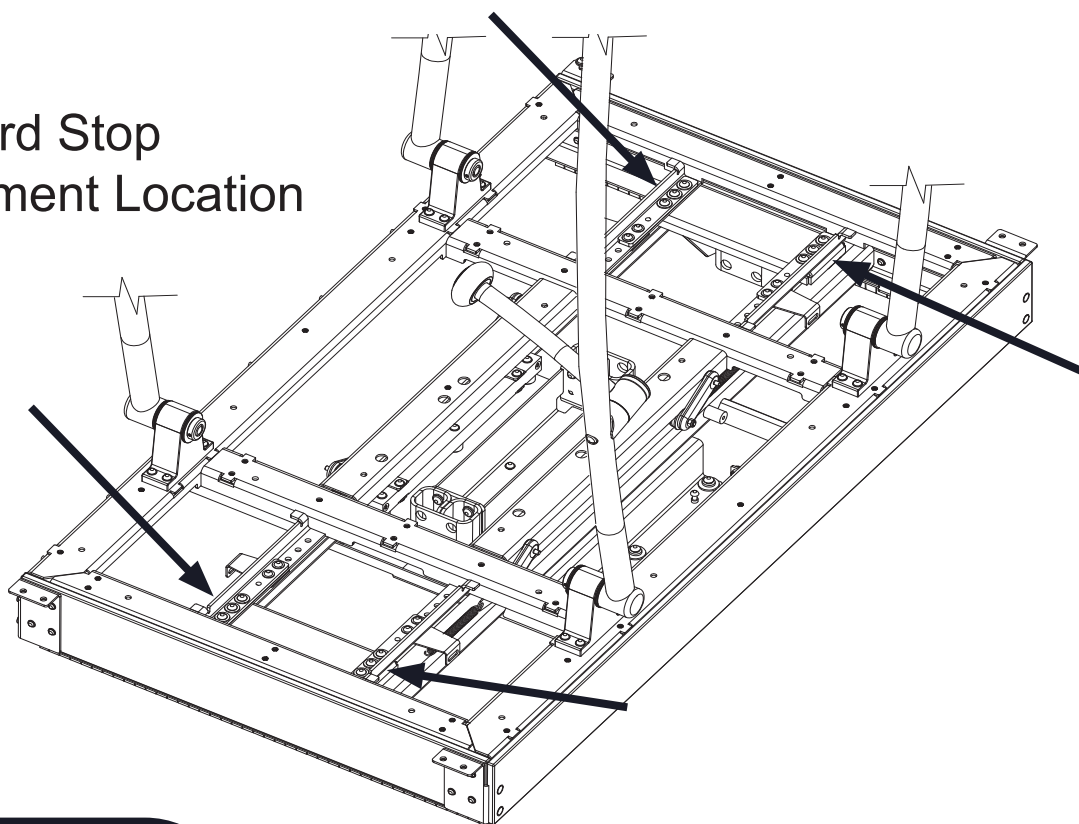
*	Part #	Description	Qty.
A	157704	BHCS 6lp LTHD 7/16x2i SST	4
B	100330	Nut Hex Nylok 7/16-14 SST	4
C	278566	Linkage Perm	8

*	Part #	Description	Qty.
D	278565	Linkage Plt Pnt	4
E	279768	Spring, SST, 8i	4
F	100292	BHCS 6lp LTHD 3/8x1-1/4i SST	8

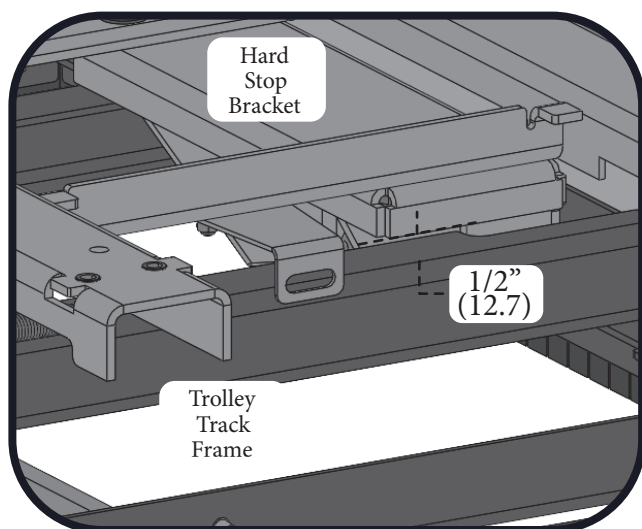
Critical Checklist Before Installing GripX

- ☐ SWEEP HEIGHT IS POSITIONED CORRECTLY. (SEE PAGE 17)
- ☐ 5/8" BHCS ARE TORQUED TO SPECIFICATION (50 FT-LBS.). (SEE PAGE 22)
- ☐ THE SPRING ASSEMBLY IS UNDER TENSION IN THE CORRECT ASSEMBLY ORIENTATION. (SEE PAGE 26)
- ☐ CLEARANCE BETWEEN TROLLEY TRACK FRAME AND HARD STOP IS 1/2" (SEE BELOW)

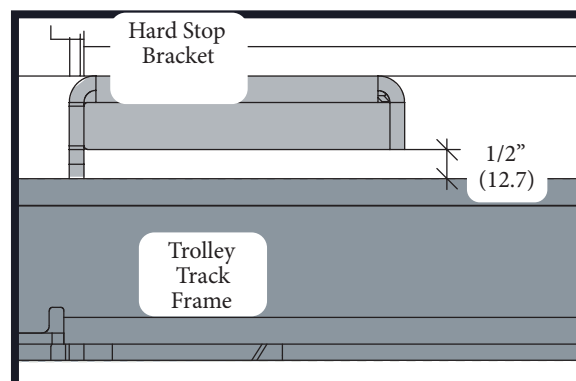
Hard Stop Measurement Location



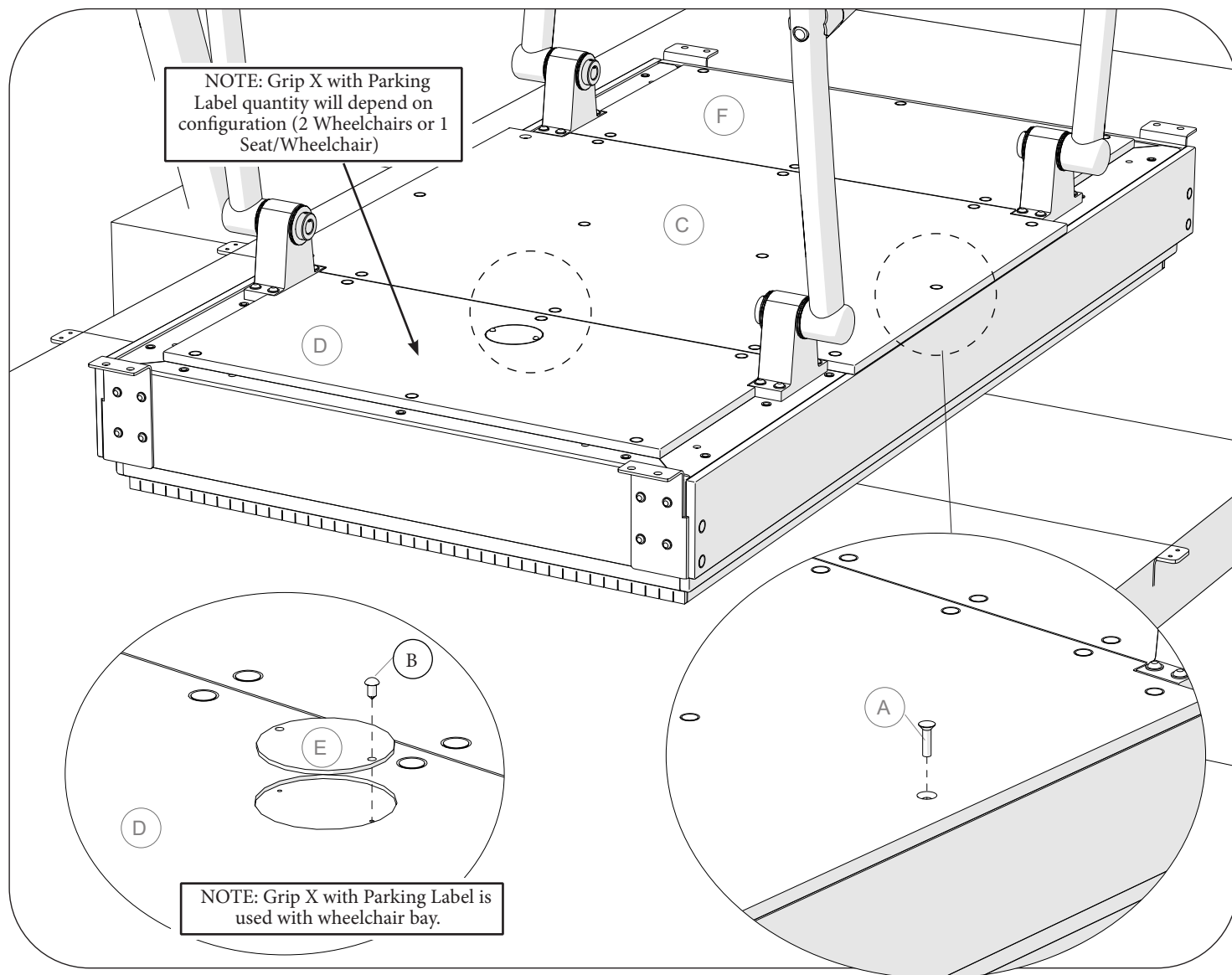
Measure the spacing between the hard stop bracket and the trolley track frame. Refer to page 19 to adjust trolley plate until the four locations measure 1/2" (12.7).



Hard Stop Measurement Location
Side View

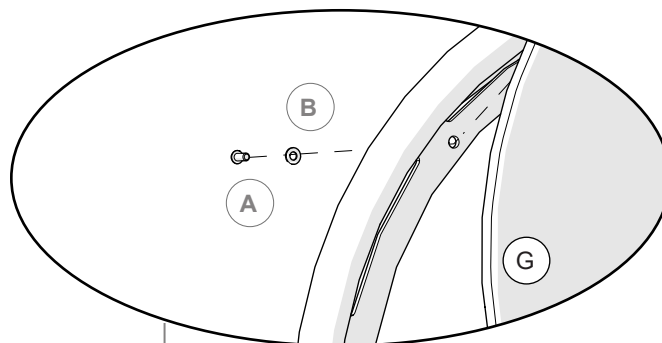
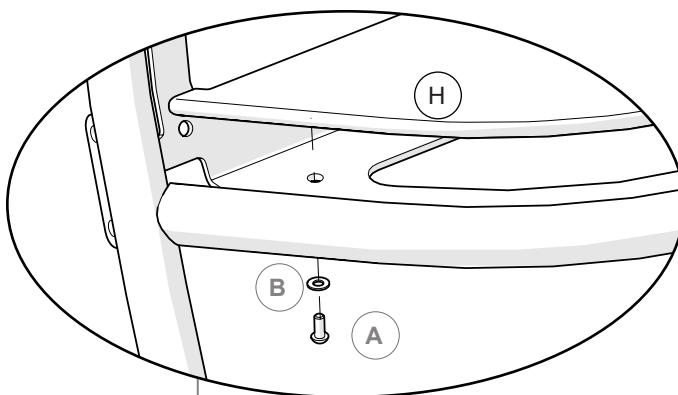
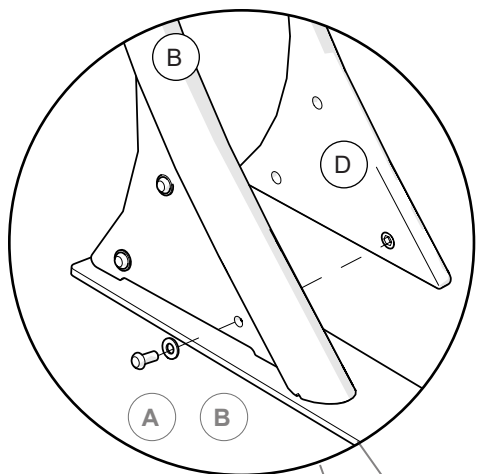


GripX Installation

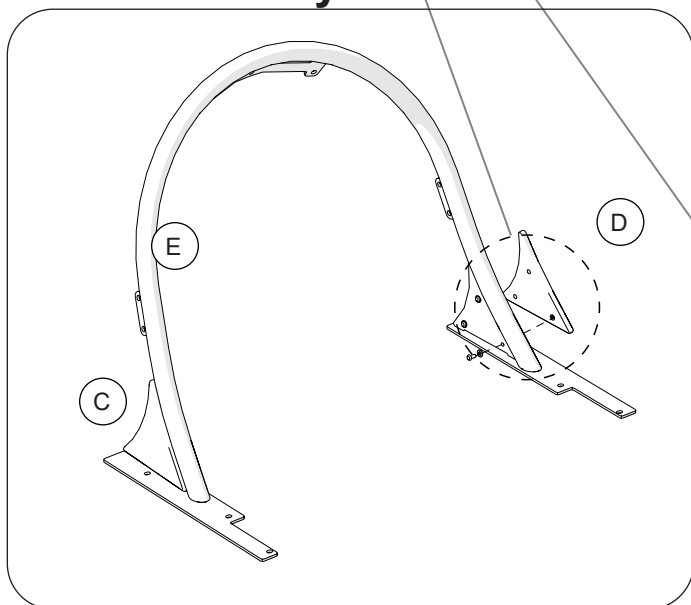


*	Part #	Description	Qty.
A	151421	FHCS 6lp 3/8x1-1/2" SST W/Patch	24
B	129671	BHCS Torx #14 X 1/2 SST	*
C	271429	Swing Center Deck Grip X	1

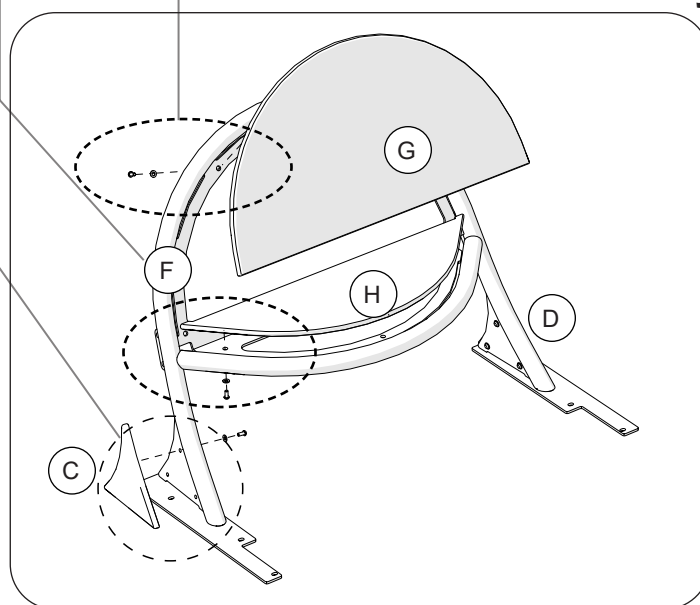
*	Part #	Description	Qty.
D	279012	Swing WC End Deck Grip X	*
E	257592	Parking Label Digi	*
F	271433	Swing End Deck Grip X	*



Wheelchair bay

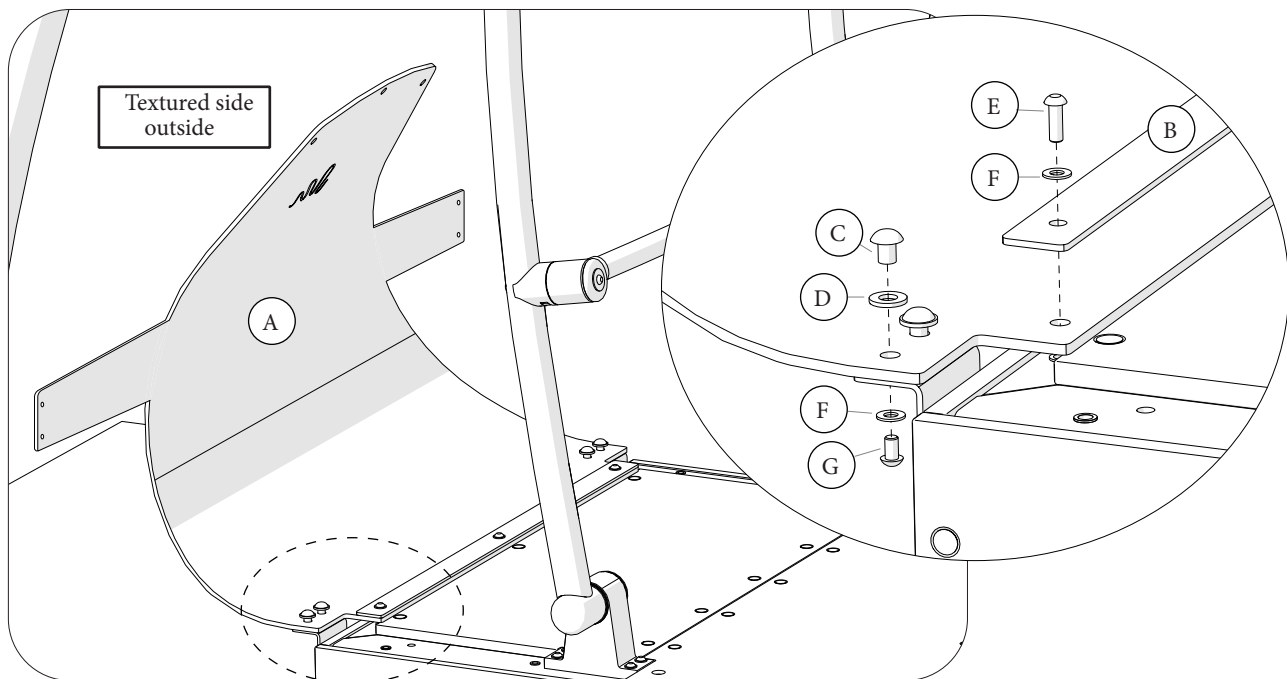


Seat bay



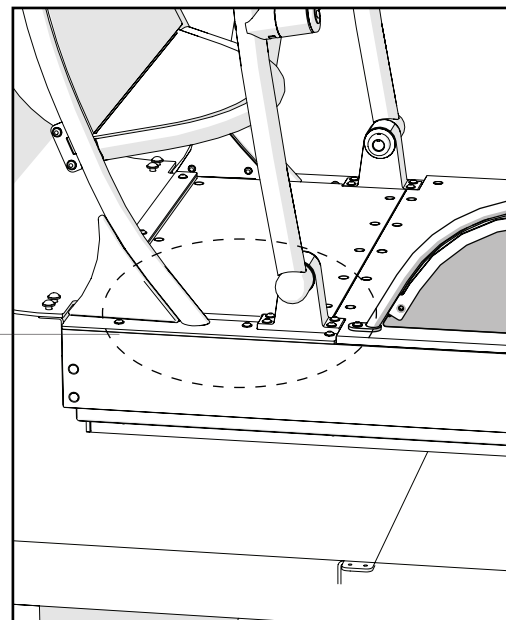
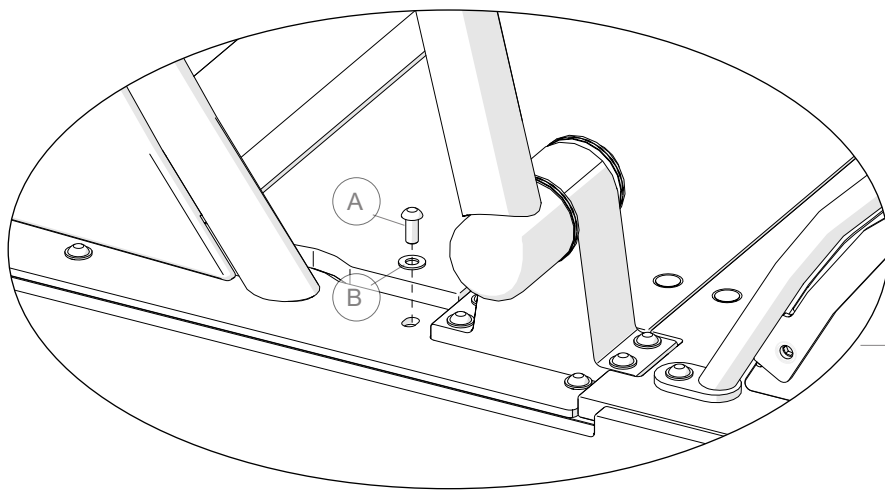
Wheelchair bay			
*	Part #	Description	Qty.
A	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS	6
B	223956	$\frac{5}{16}$ " SAE Flat Washer	6
C	274202	Seat Gusset Perm Rh	1
D	274201	Seat Gusset Perm Lh	1
E	272856	Wc Swing Wc Seat	1

Seat bay			
*	Part #	Description	Qty.
A	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS	16
B	223956	$\frac{5}{16}$ " SAE Flat Washer	16
C	274202	Seat Gusset Perm Rh	1
D	274201	Seat Gusset Perm Lh	1
F	272855	Wc Swing Seat	1
G	274132	Wc Swing Seat Back Perm	1
H	274135	WC Swing Seat Bottom Perm	1



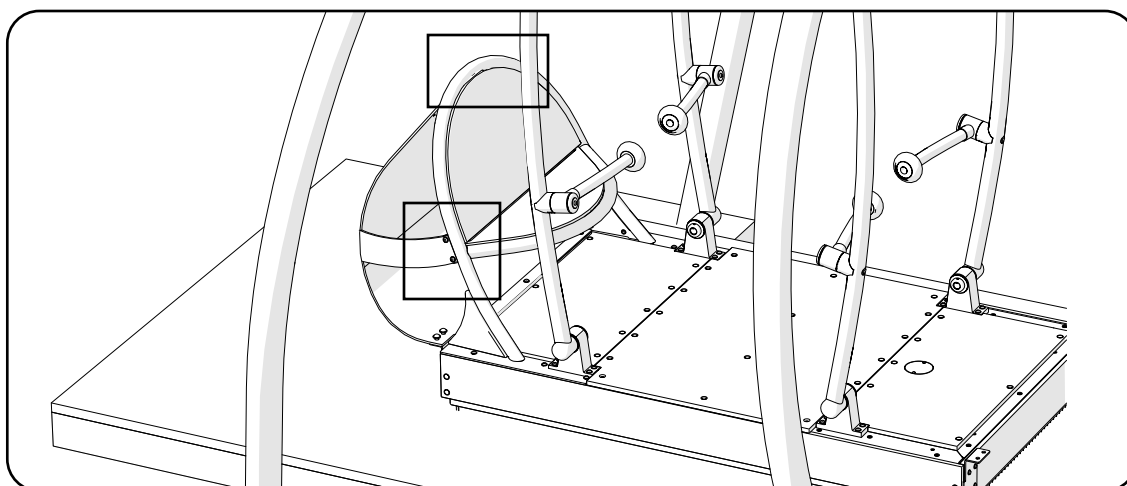
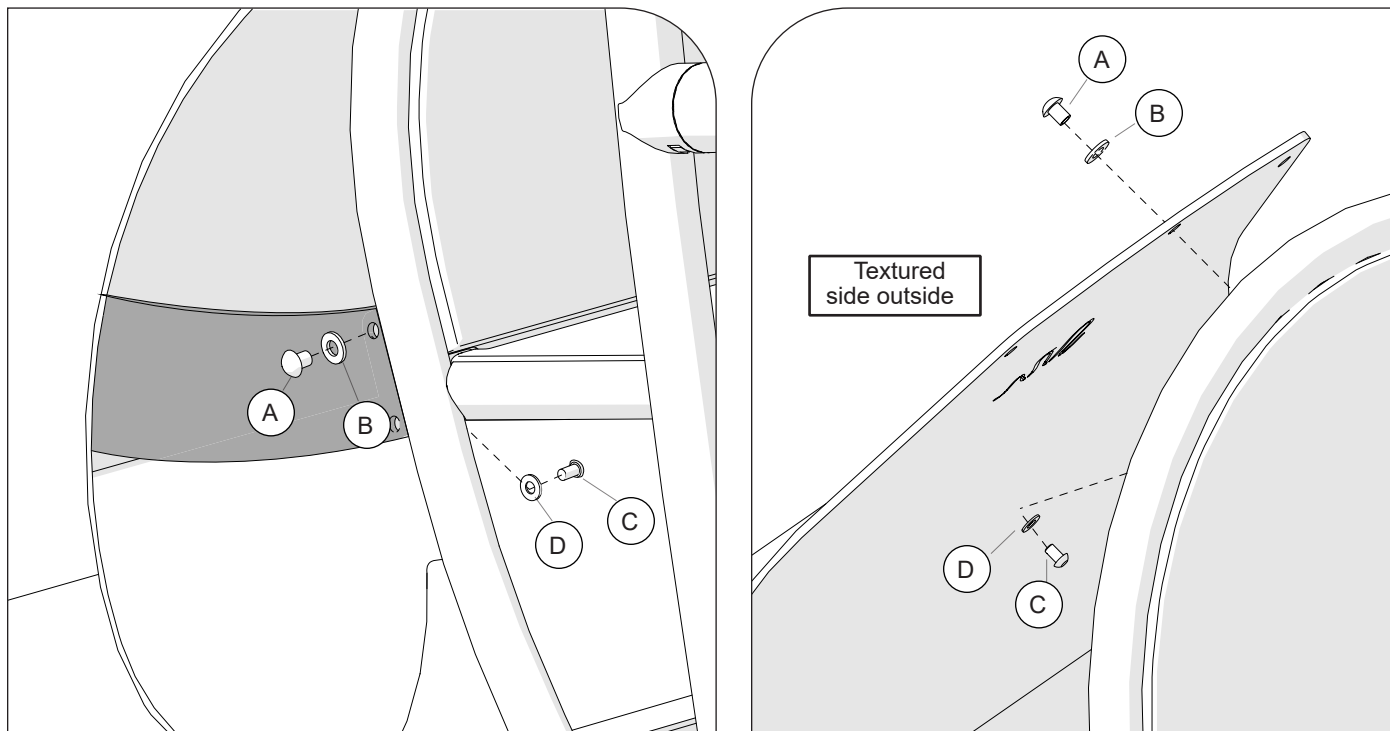
*	Part #	Description	Qty.
A	274938	Swing Belt	2
B	274937	Belt Top Plate	2
C	100353	Flg Nut 6lp 3/8-16 SST	8
D	113550	Washer Flat SAE 1/2i SST	8

*	Part #	Description	Qty.
E	100198	$\frac{3}{8}$ x 1 $\frac{1}{8}$ " BHCS	6
F	100365	$\frac{3}{8}$ " SAE Washer	14
G	100195	$\frac{3}{8}$ x $\frac{5}{8}$ " BHCS	8



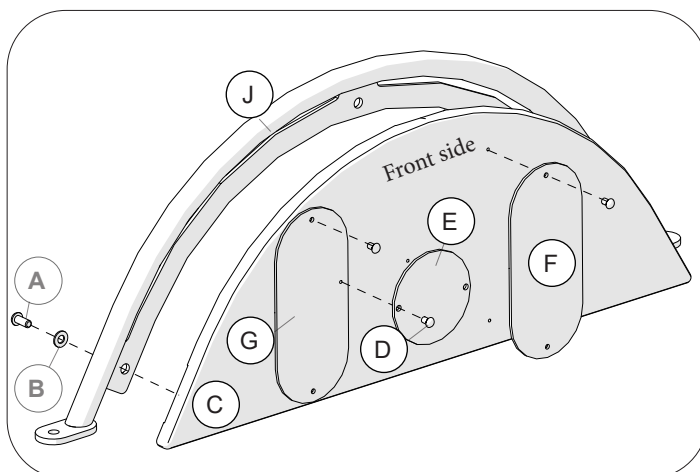
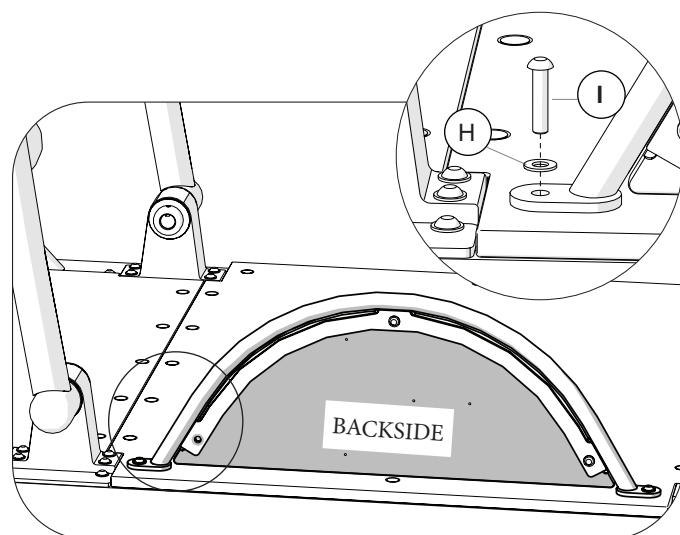
*	Part #	Description	Qty.
A	100196	$\frac{3}{8}$ x $\frac{7}{8}$ " BHCS	12

*	Part #	Description	Qty.
B	100365	$\frac{3}{8}$ " SAE Washer	12



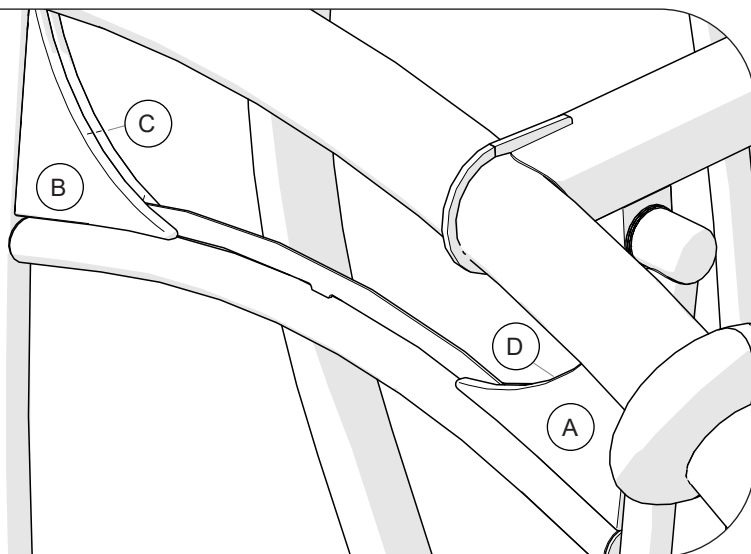
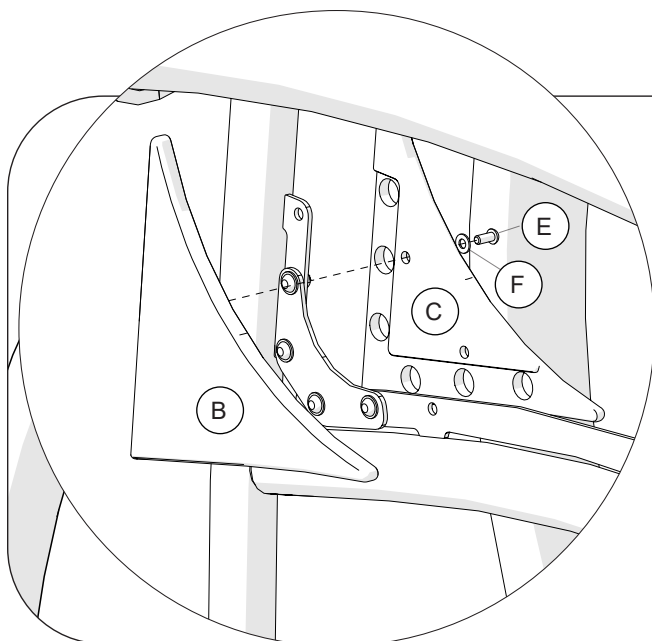
*	Part #	Description	Qty.
A	100353	Flg Nut 6lp 3/8-16 SST	14
B	113550	Washer Flat SAE 1/2i SST	14

*	Part #	Description	Qty.
C	100195	$\frac{3}{8}$ x $\frac{5}{8}$ " BHCS	14
D	100365	$\frac{3}{8}$ " SAE Washer	14



*	Part #	Description	Qty.
A	223807	$\frac{5}{16}$ x $\frac{3}{4}$ " BHCS	3
B	223956	$\frac{5}{16}$ " SAE Flat Washer	3
C	318457	Swing Deck Curb Panel	1
D	129671	BHCS Torx #14 X 1/2 SST	6

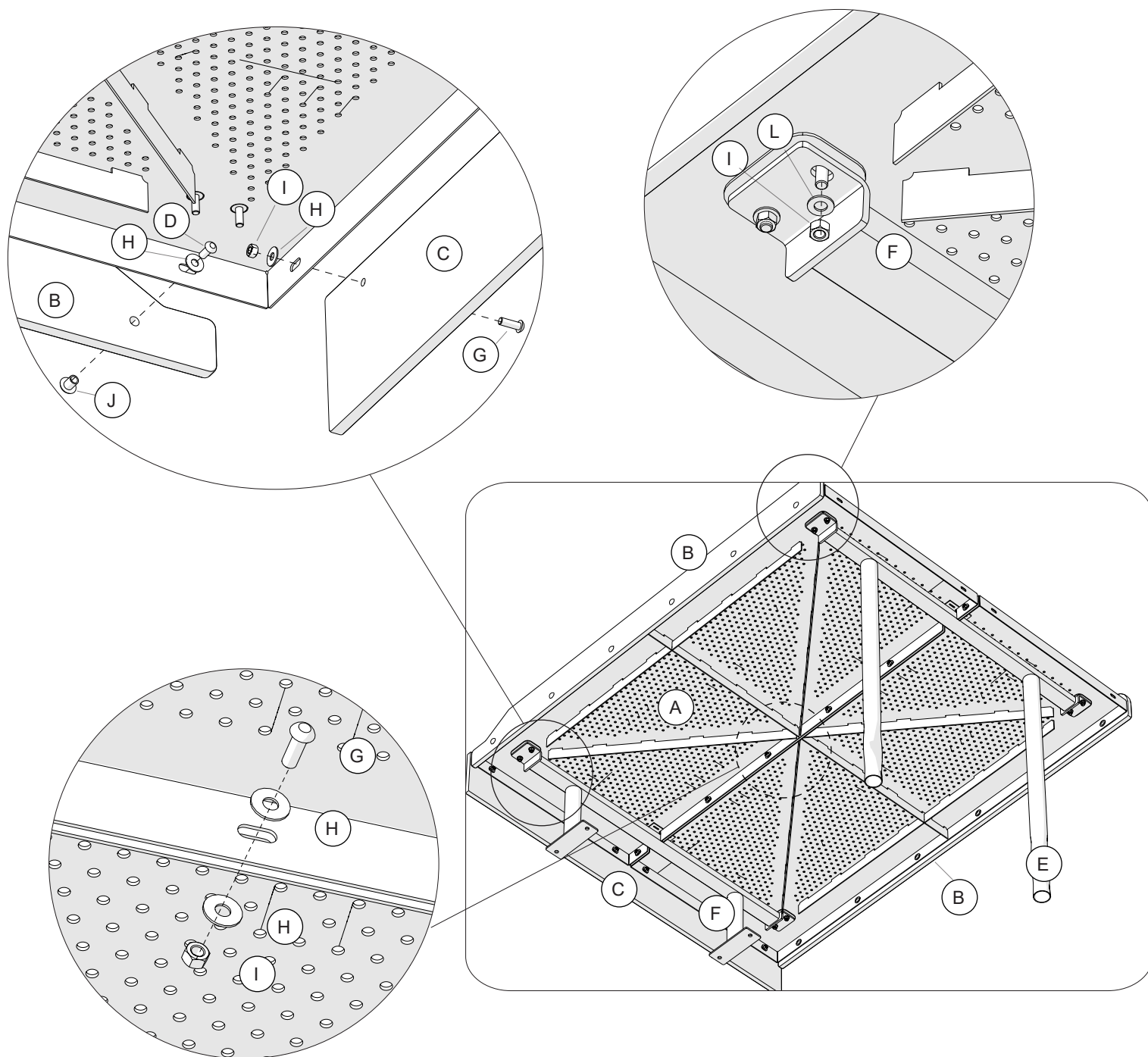
*	Part #	Description	Qty.
E	257592	Parking Label Digi	1
F	251343	2-12 Yrs Play Safe Warning Plt Flat Large	1
G	316650	Cust Warning We Go Swing Handle	1
H	100365	$\frac{3}{8}$ " SAE Washer	2
I	123224	$\frac{3}{8}$ x 1 $\frac{11}{16}$ " BHCS	2
J	274080	Swing Deck Curb	1



*	Part #	Description	Qty.
A	274114	Swing Arm Brace Perm Rh	2
B	274079	Swing Arm Brace Perm Lh	2
C	278683	Swing Arm Brace Perm 2	2

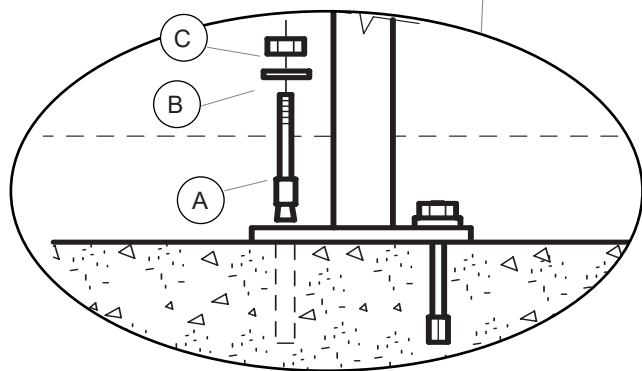
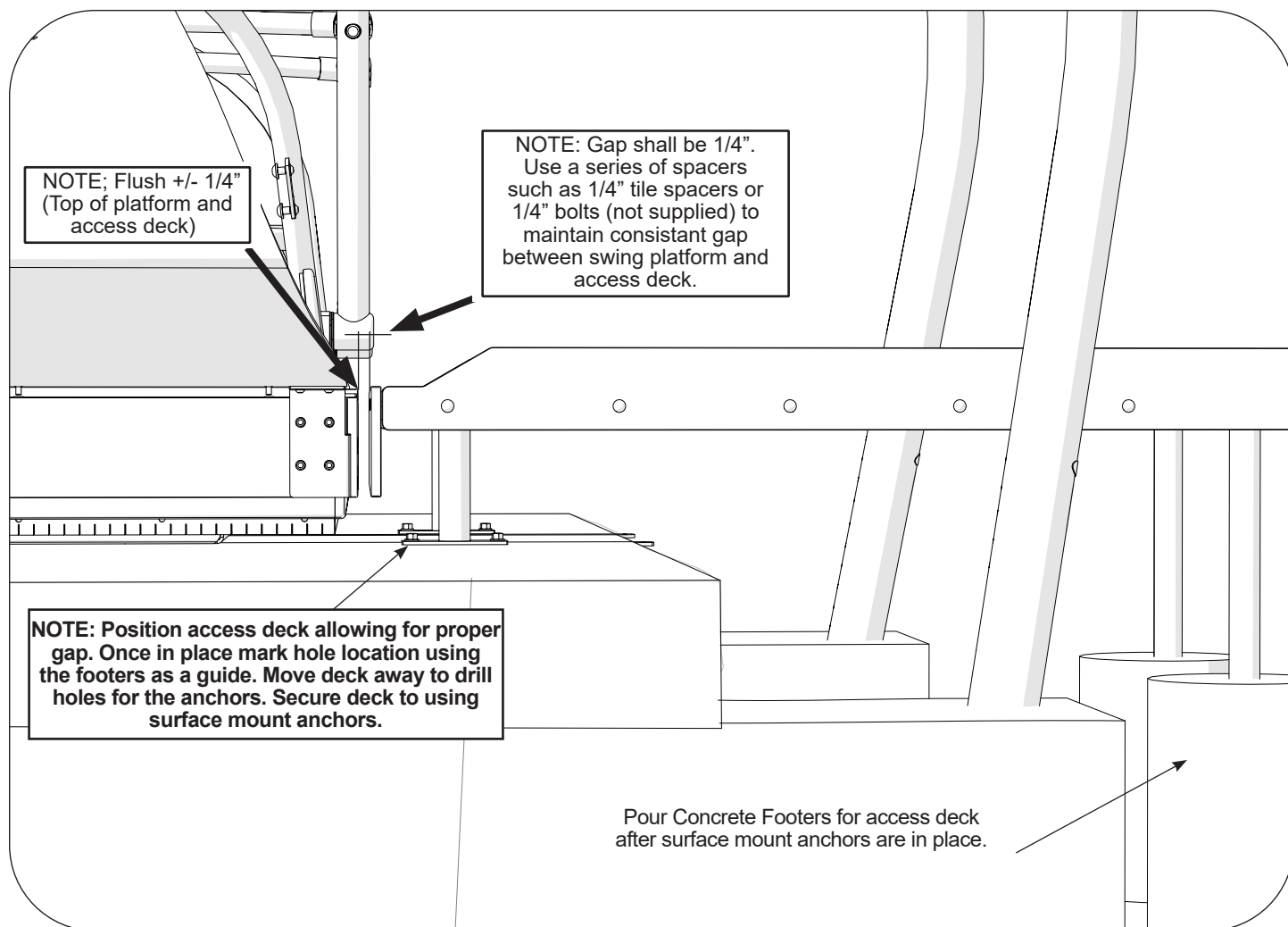
*	Part #	Description	Qty.
D	279162	Swing Arm Brace Perm Rh 2	2
E	223807	BHCS 6lp 5/16i - 18 X 3/4i SST	16
F	223956	Washer Flat SAE 5/16i SST	16

ACCESS DECK



*	Part #	Description	Qty.
A	271815	Swing Access Deck 60i X 72i Pvc	2
B	271888	Deck Curb 60i	2
C	272958	60i Deck Wear Plate	1
D	100196	$\frac{3}{8}$ X $\frac{7}{8}$ " BHCS	12
E	271818	Swing Access Deck Footer DB	1
F	271819	Swing Access Deck Footer SM	1

*	Part #	Description	Qty.
G	100198	$\frac{3}{8}$ X $1\frac{1}{8}$ " BHCS	10
H	100362	Washer Flat $\frac{3}{8}$ i SST	28
I	100327	$\frac{3}{8}$ " Standard Hex Nut	18
J	100353	Flg Nut 6lp 3/8-16 SST	12
K	271819	Swing Access Deck Footer SM	1
L	100365	$\frac{3}{8}$ " SAE Washer	8



*	Part #	Description	Qty.
A	100266	Exp Anchor 1/2x2-3/4i Zp	4
B	100363	Washer Flat 1/2i SST	4

*	Part #	Description	Qty.
C	100322	Nut Hex Std 1/2-13 SST	4

Parts List

Two Wheelchairs Configuration

Number	Product Name	QTY.
165895	Rebar #5 X 9ft6in	29
182262	Rung Cap	4
364627	Deck Support Frame Pnt, Specify Color	1
271429	Swing Center Deck Gripx, Black	1
271540	Deck Skirt Side, Black	2
271541	Deck Skirt End, Black	2
271624	Trolley Track Frame, Specify Color	1
271815	Swing Access Deck 60i X 72i PVC, Specify Color	2
271818	Swing Access Deck Footer DB, Specify Color	1
271819	Swing Access Deck Footer SM, Specify Color	1
271888	Deck Curb 60i, Specify Color	2
272544	Trolley Frame Side Skirt, Black	2
272545	Trolley Frame End Side Skirt, Black	2
272856	We Swing We Seat, Specify Color	2
272958	60i Deck Wear Plate, Specify Color	1
318463	Swing Arm Rh ASM, Specify Color	2
318464	Swing Arm Lh ASM, Specify Color	2
273329	Soft Stop Frame, Specify Color	1
364637	Anchor Cage Inclusive Swing, Specify Color	1
274078	Swing Arm Brace, Specify Color	2
274079	Swing Arm Brace Perm Lh, Specify Color	2
274080	Swing Deck Curb, Specify Color	1
318457	Swing Deck Curb Panel, Specify Color	1
274114	Swing Arm Brace Perm Rh, Specify Color	2
274201	Seat Gusset Perm Lh, Specify Color	2
274202	Seat Gusset Perm Rh, Specify Color	2
274807	Inclusive Swing Frame Leg, Specify Color	4
274908	Inclusive Swing Frame ASM, Specify Color	1
274909	Deck Mount Swing Pivot Anchor ASM, Specify Color	4
274935	Swing Arm Installation Lock, RED	2
274936	Deck Installation Support, RED	2
274937	Belt Top Plate, Specify Color	2
274938	Swing Belt	2
274939	Surfacing Trowel Bracket, Specify Color	2
274940	Side Sweeper	2
274941	Side Sweeper Plate, Specify Color	2
274942	End Sweeper	2
274943	End Sweeper Plate, Specify Color	2
275593	Hard Stop Bracket, Specify Color	2
275657	Trolley Assembly, Specify Color	2
277802	Swing Skirt Corner Bracket Lh, Black	2
277856	Swing Skirt Corner Bracket Rh, Black	2
278564	Linkage Brkt Pnt, Specify Color	4
278565	Linkage Plt Pnt, Specify Color	4
278566	Linkage Perm, Specify Color	8
278682	Swing Arm Mending Plt, Specify Color	4
278683	Swing Arm Brace Perm 2, Specify Color	2
279012	Swing We End Deck Gripx, Black	2
279162	Swing Arm Brace Perm Rh 2, Specify Color	2
279176	5i Flange Cover Casting Pnt, Specify Color	8
358809	Track Base Pnt, Specify Color	1
279974	Belt Bumper Stop	4
281818	Surfacing Trowel Bracket 2, Specify Color	2
364640	Anchor Cage Plate, RED	4
279246	Hdw Pkg We-Go-Swing™ Frame	1
320276	Hdw Pkg We-Go-Swing™ Deck	1
121348	Hdw Pkg 4-Hole SM 1/2-13	1
279928	Hdw Pkg We-Go-Swing™ Ramp	1
279930	Hdw Pkg We-Go-Swing™ W/C Frame	2
279931	Hdw Pkg We-Go-Swing™ Curb	1
279932	Hdw Pkg We-Go-Swing™ Arms	1
364647	Hdw Pkg We-Go-Swing™ Base	1
318456	Hdw Pkg We-Go-Swing™ Label Two Chairs	1
121348	Hdw Pkg 4-Hole SM 1/2-13	1
280068	Hdw Pkg We-Go-Swing™ Temporary Braces	1
281847	Hdw Pkg We-Go-Swing™ Trowel Frame	1

Parts List

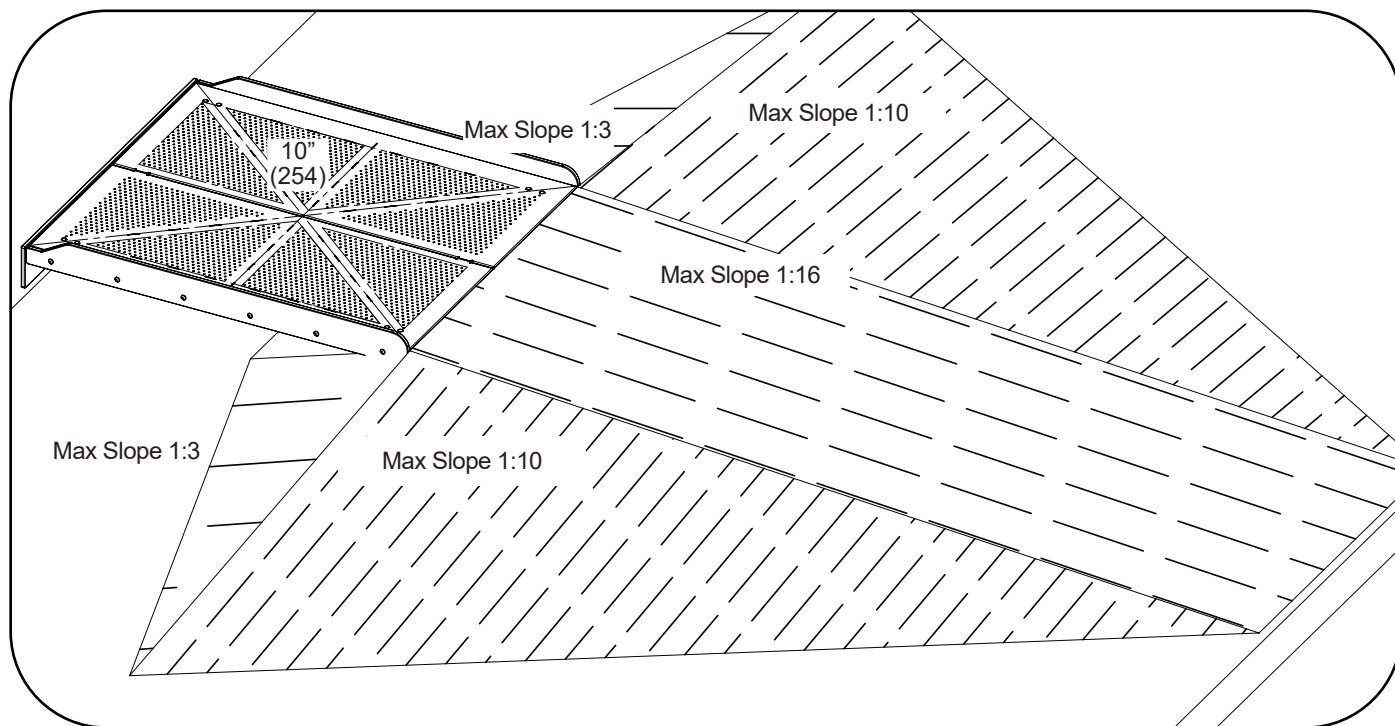
One Wheelchair / One Seat Configuration

Part#	Description	Qty.
165895	Rebar #5 X 9ft6in	29
182262	Rung Cap	4
364627	Deck Support Frame Pnt, Specify Color	1
271429	Swing Center Deck Gripx, Black	1
271433	Swing End Deck Gripx, Black	1
271540	Deck Skirt Side, Black	2
271541	Deck Skirt End, Black	2
271624	Trolley Track Frame, Specify Color	1
271815	Swing Access Deck 60i X 72i PVC, Specify Color	2
271818	Swing Access Deck Footer DB, Specify Color	1
271819	Swing Access Deck Footer SM, Specify Color	1
271888	Deck Curb 60i, Specify Color	2
272544	Trolley Frame Side Skirt, Black	2
272545	Trolley Frame End Side Skirt, Black	2
272855	We Swing Seat, Specify Color	1
272856	We Swing We Seat, Specify Color	1
272958	60i Deck Wear Plate, Specify Color	1
318463	Swing Arm Rh ASM, Specify Color	2
318464	Swing Arm Lh ASM, Specify Color	2
273329	Soft Stop Frame, Specify Color	1
364637	Anchor Cage Inclusive Swing, Specify Color	1
274078	Swing Arm Brace, Specify Color	2
274079	Swing Arm Brace Perm Lh, Specify Color	2
274080	Swing Deck Curb, Specify Color	1
318457	Swing Deck Curb Panel, Specify Color	1
274114	Swing Arm Brace Perm Rh, Specify Color	2
274132	We Swing Seat Back Perm, Specify Color	1
274135	We Swing Seat Bottom Perm, Specify Color	1
274201	Seat Gusset Perm Lh, Specify Color	2
274202	Seat Gusset Perm Rh, Specify Color	2
274807	Inclusive Swing Frame Leg, Specify Color	4
274908	Inclusive Swing Frame ASM, Specify Color	1
274909	Deck Mount Swing Pivot Anchor ASM, Specify Color	4
274935	Swing Arm Installation Lock, RED	2
274936	Deck Installation Support, RED	2
274937	Belt Top Plate, Specify Color	2
274938	Swing Belt	2
274939	Surfacing Trowel Bracket, Specify Color	2
274940	Side Sweeper	2
274941	Side Sweeper Plate, Specify Color	2
274942	End Sweeper	2
274943	End Sweeper Plate, Specify Color	2
275593	Hard Stop Bracket, Specify Color	2
275657	Trolley Assembly, Specify Color	2
277802	Swing Skirt Corner Bracket Lh, Black	2
277856	Swing Skirt Corner Bracket Rh, Black	2
278564	Linkage Brkt Pnt, Specify Color	4
278565	Linkage Plt Pnt, Specify Color	4
278566	Linkage Perm, Specify Color	8
278682	Swing Arm Mending Plt, Specify Color	4
278683	Swing Arm Brace Perm 2, Specify Color	2
279012	Swing We End Deck Gripx, Black	1
279162	Swing Arm Brace Perm Rh 2, Specify Color	2
279176	5i Flange Cover Casting Pnt, Specify Color	8
281818	Surfacing Trowel Bracket 2, Specify Color	2
358809	Track Base Pnt, Specify Color	1
279974	Belt Bumper Stop	4
364640	Anchor Cage Plate, RED	4
121348	Hdw Pkg 4-Hole SM 1/2-13	1
279246	Hdw Pkg We-Go-Swing™ Frame	1
320276	Hdw Pkg We-Go-Swing™ Deck	1
279928	Hdw Pkg We-Go-Swing™ Ramp	1
279929	Hdw Pkg We-Go-Swing™ Seat	1
279930	Hdw Pkg We-Go-Swing™ W/C Frame	1
279931	Hdw Pkg We-Go-Swing™ Curb	1
279932	Hdw Pkg We-Go-Swing™ Swing Arms	1
364647	Hdw Pkg We-Go-Swing™ Base	1
318455	Hdw Pkg We-Go-Swing™ Label One Chair	1
280068	Hdw Pkg We-Go-Swing™ Temporary Braces	1
281847	Hdw Pkg We-Go-Swing™ Trowel Frame	1

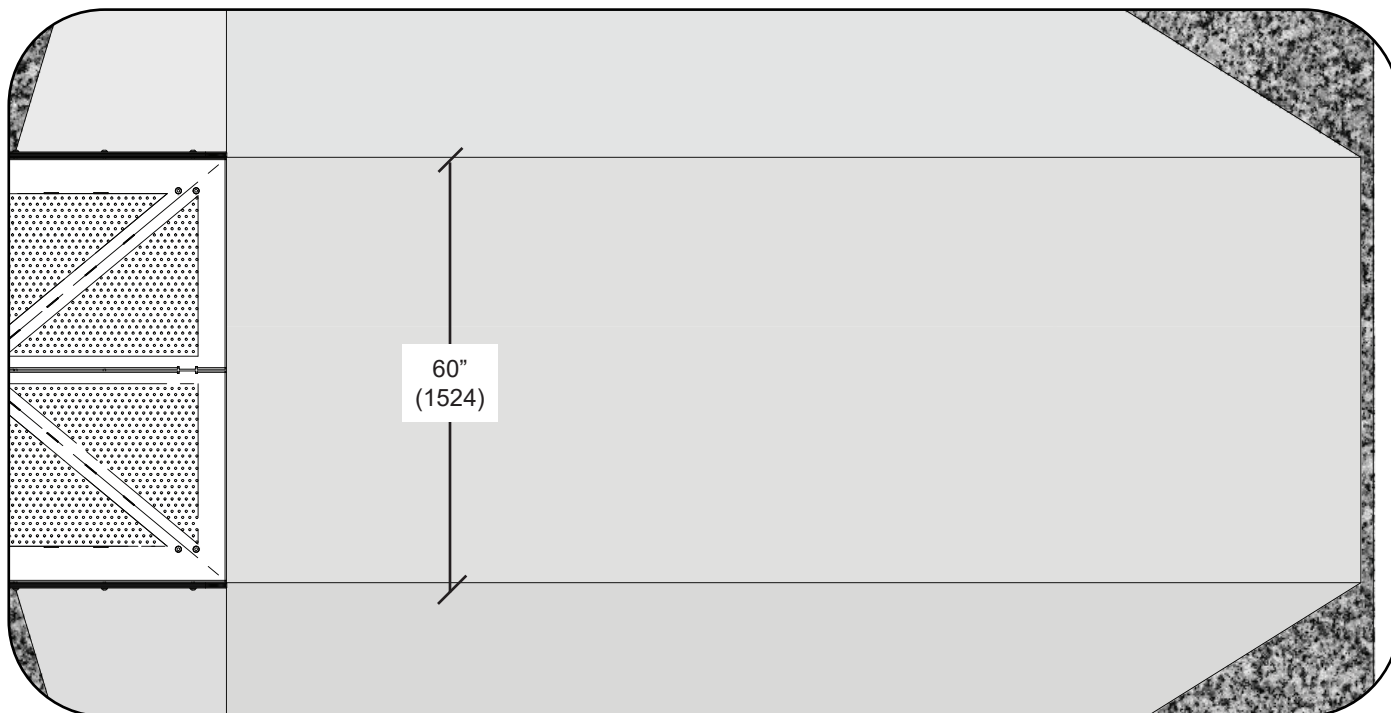
Specifications

Trim:	Permalene®, color specified.	Curb Frame:	Weldment comprised of 1.029" (26,14 mm) O.D. RS20 (.070" - .090") (1,78 mm - 2,29 mm) wall galvanized steel tubing, 1/4" (6,35 mm) HRPO steel plate, .179" (4,55mm) HRPO steel sheet. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamper proof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).	Anchor Cage:	Weldment comprised of 1/4" (6,35 mm) HRPO steel plate, 1.029" (26,14 mm) O.D. .083" (2,11 mm) wall galvanized steel tubing, 5/8-11UNC thread weld slug. Finish: ProShield, color specified.
Bridge/Ramp:	Weldment comprised of 12 GA (.105") (2,66 mm) sheet HRPO steel conforming to ASTM A1011 and 3/16" (4,75 mm) HR flat steel. Standing surface is perforated with 5/16" (7,92 mm) diameter holes. Finish: TenderTuff, color specified.	Soft Stop:	Weldment comprised of 3/8" (9,53 mm) HRPO steel plate, .179" (4,55 mm) HRPO steel sheet. Finish: ProShield, color specified.
Permalene Panels:	Recycled Permalene, color specified.	Hard Stop:	Weldment comprised of 3/8" (9,53 mm) HRPO steel plate, 1/4" (6,35 mm) HRPO steel Plate. Finish: ProShield, color specified.
Belts	Made from .315" think mini rough top 3-ply rubber belting with polyester fabric plys, black in color	Swing Arm	Brace: Weldment comprised of 2.375" (60,33 mm) O.D. RS20 (.095" - .105") (2,41 mm - 2,67 mm) galvanized steel tubing, 1/4" (6,35 mm) HRPO steel plate, .179" (4,55 mm) steel sheet. Finish: Proshield, specify color.
Grip X Deck Surface:	3/4" (19,05 mm) Thick Permalene®, black in color.	Belt Plates:	Comprised of 1/8" (3,18 mm) aluminum sheet. Finish: ProShield, color specified.
Swing Frame:	Weldment comprised of 5" (127 mm) O.D. .179 wall (4,55 mm) (7ga) Zinc Galvanized steel tubing, 3/8" (9,53 mm) HRPO steel plate, 1/2" (12,7 mm) HRPO Steel plate, bearing blocks stainless steel and self aligning bearings. Finish; ProShield, color specified.	Mending Plates:	Comprised of 7 ga. (4,55 mm) HRPO steel sheet. Finish: ProShield, color specified.
Swing Legs:	Weldment comprised of 5" (127 mm) O.D. .120 wall (3,05 mm) (11GA) zinc galvanized steel tubing, 1/2" (12,7 mm) HRPO steel plate. Finish; Proshield, color specified.	Rung Cap:	EPDM, black in color.
Swing Arms:	Weldment comprised of 2.875" (73,03 mm) O.D. RS40 (.160" - .170") (4,06 mm - 4,32 mm) wall galvanized steel tubing, 2.375" (60,33 mm) O.D. RS40 (.130" - .140") (3,30 mm - 3,56 mm) wall galvanized steel tubing, 1.90" (48,26 mm) O.D. RS20 (.090" - .100") (2,29 mm - 25,4 mm) wall galvanized steel tubing, 1.66" (42,16 mm) O.D. RS40 (.111" - .121") (2,82 mm - 3,07 mm) wall galvanized steel tubing, 1/2" (12,7 mm) HRPO steel plate, .179" (4,55 mm) HRPO steel sheet, 2.75" (69,85 mm) O.D. Stainless steel bar, 1.25" (31,75 mm) O.D. Stainless steel bar, 2.875" (73,03 mm) O.D. Stainless steel bar, 1/4" (6,35 mm) stainless plate. Finish: Proshield, color specified.	Access Deck Supports:	Weldment comprised of 2-1/2" (63,5 mm) x 1-1/2" (38,1 mm) x 1/4" (6,35 mm) wall rect steel tubing, 2-3/8" ((60,33 mm) RS20 (.095" - .105") (2,41 mm - 2,67 mm) wall galvanized steel tubing, 1/4" (6,35 mm) HRPO steel plate. Finish: ProShield, color specified.
Trolley Base:	Comprised of 1/4" (6,35 mm) HRPO steel plate, Finish: ProShield, color specified.	Installation Time:	Approx. 60 install hours
Trolley Assembly:	Comprised of 1-1/2" (38,1 mm) square steel bar, 3/16" (4,78 mm) stainless steel sheet, 5/16" (7,94 mm) stainless steel shafts, urethane roller skate wheels. Finish: ProShield, color specified.	Concrete Req.:	Approx. 9.5 cu. yards
Trolley Spacer:	1-1/8" (28,58 mm) O.D. Aluminum tubing. Finish: Proshield: color specified	Weight:	Two Wheelchair Seats -2312 lbs. One Wheelchair Seat - 2357 lbs.
Trolley Frame:	Weldment comprised of .190" (4,83 mm) aluminum sheet, 1-1/8" (28,58 mm) aluminum tubing. Finish: ProShield, color specified.		
Seat Frame:	Weldment comprised of 1.90" (48,26 mm) O.D. RS40 (.120" - .130") (3,05 mm - 3,30 mm) wall galvanized steel tubing, 1/4" (6,35 mm) HRPO steel plate. Finish: Proshield, color specified.		

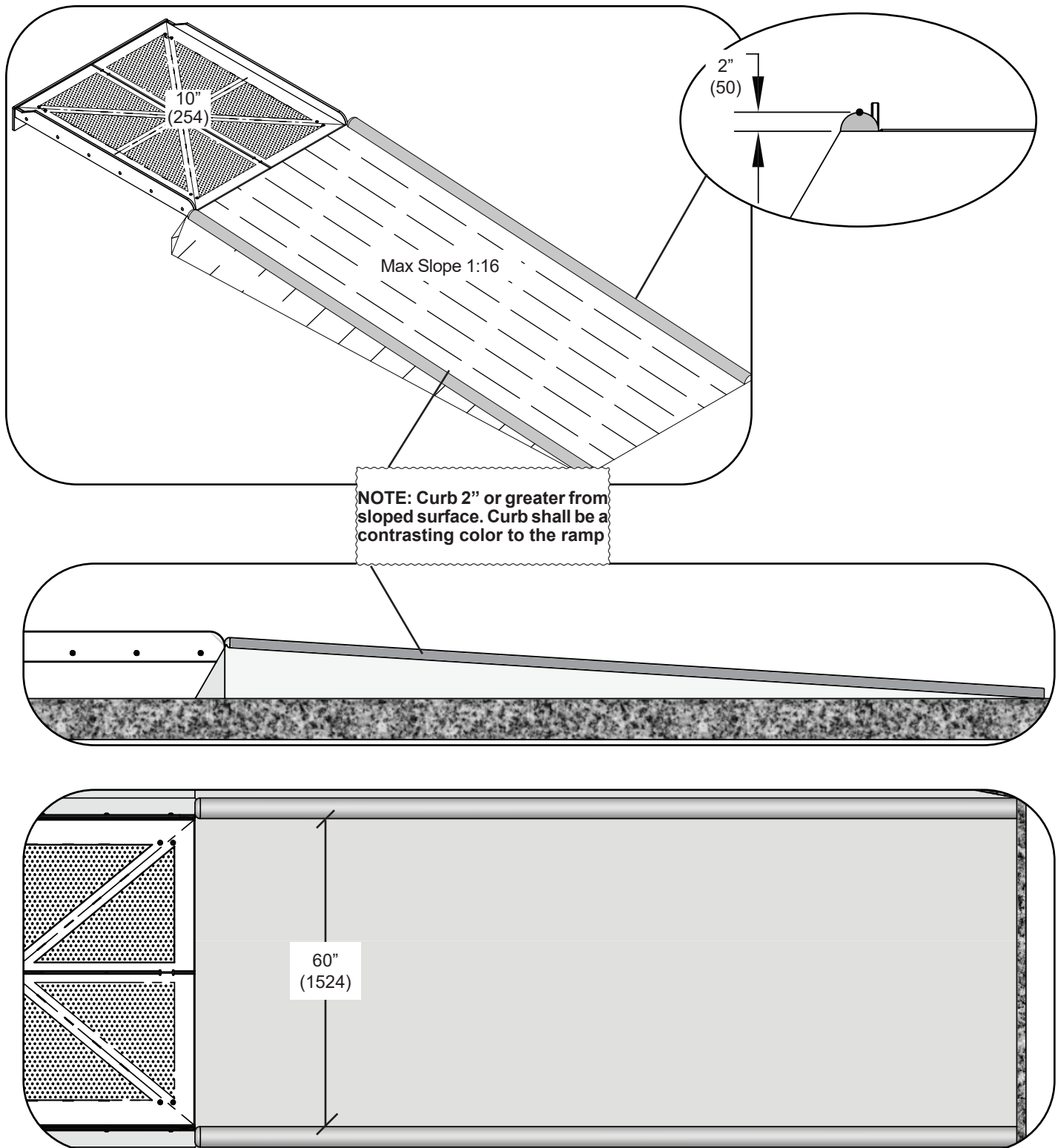
POUR IN PLACE RAMP



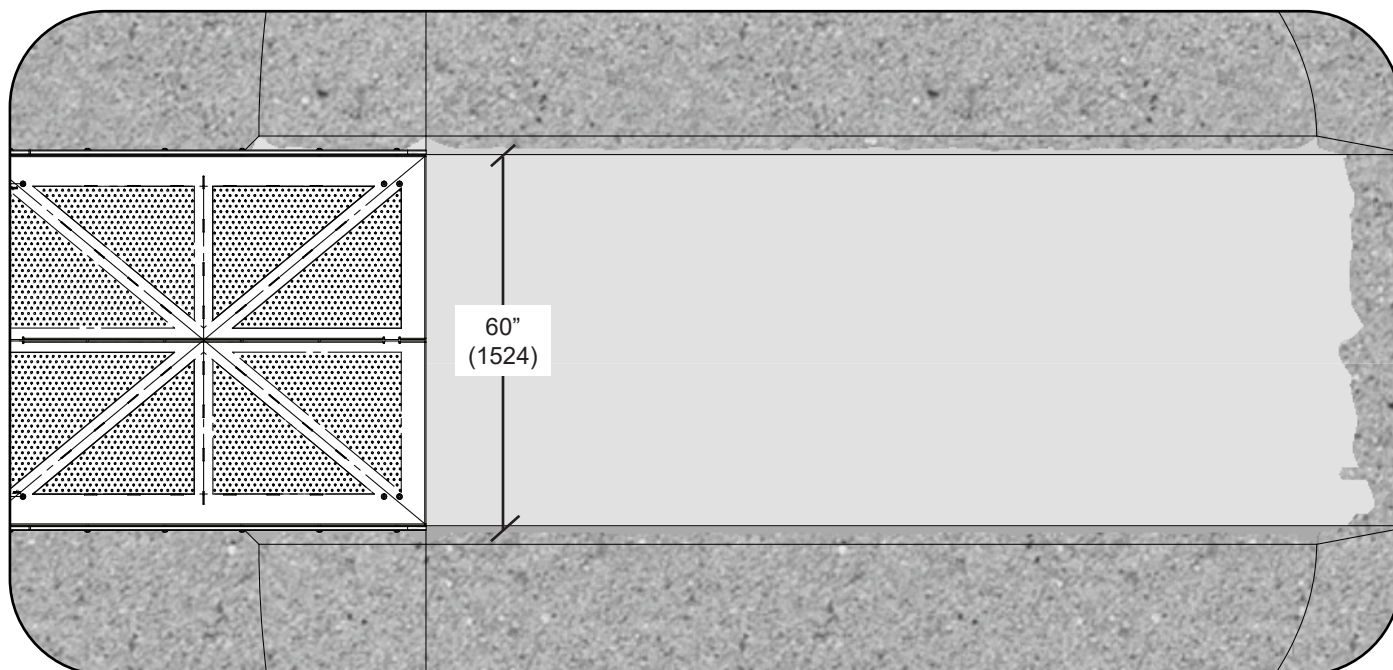
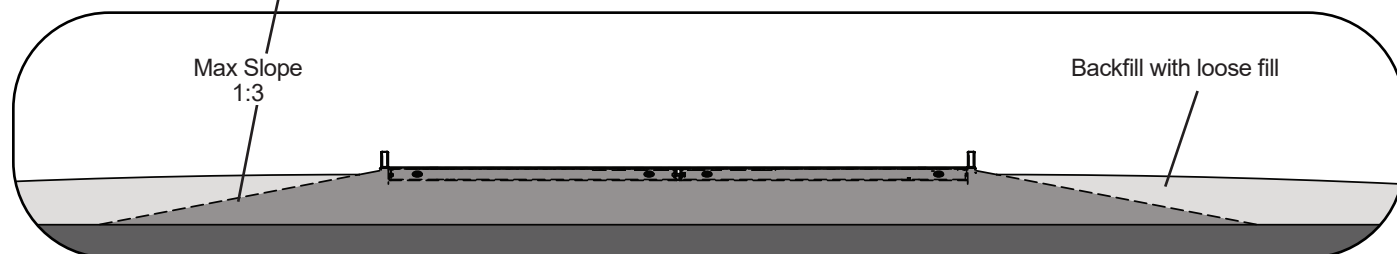
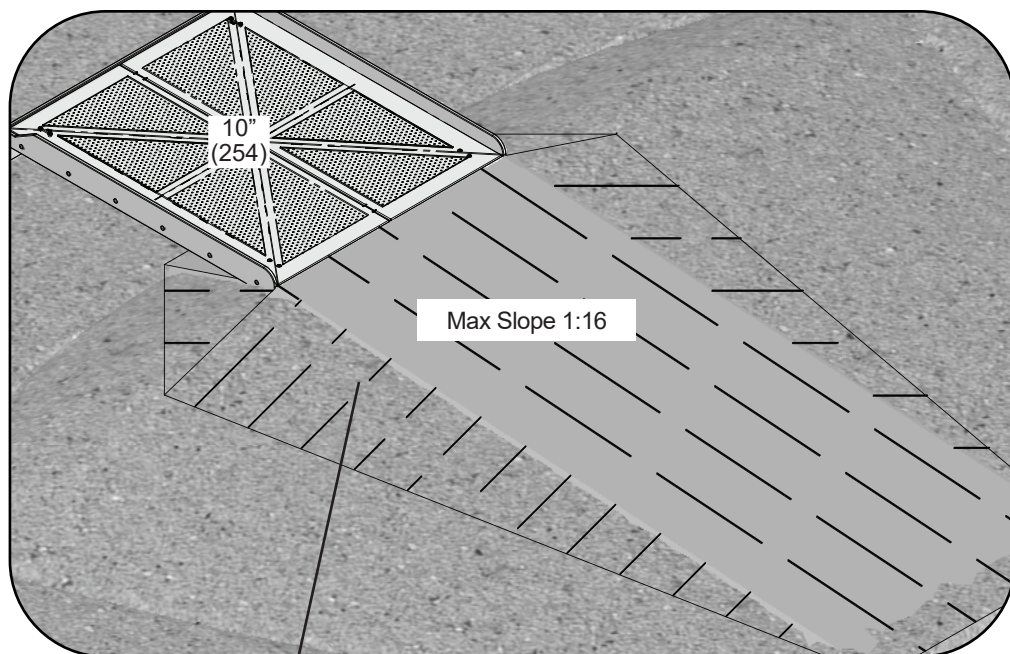
NOTE: Accessible route needs to be 1:16 and 60" wide



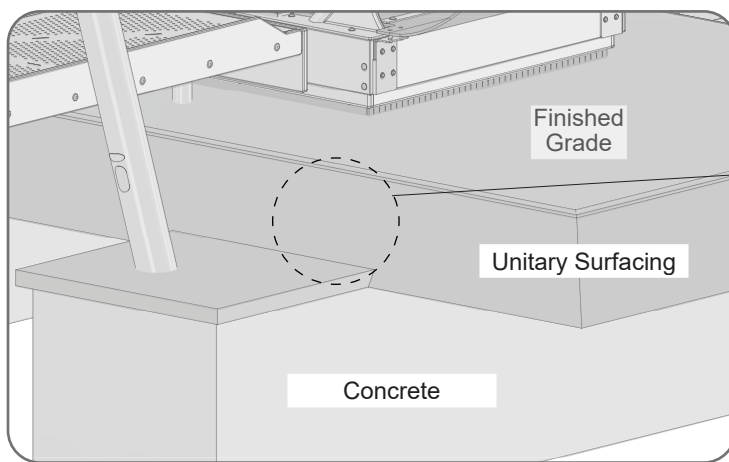
POUR IN PLACE RAMP WITH CURBS



POUR IN PLACE RAMP WITH CURBS WITH LOOSE BACK FILL

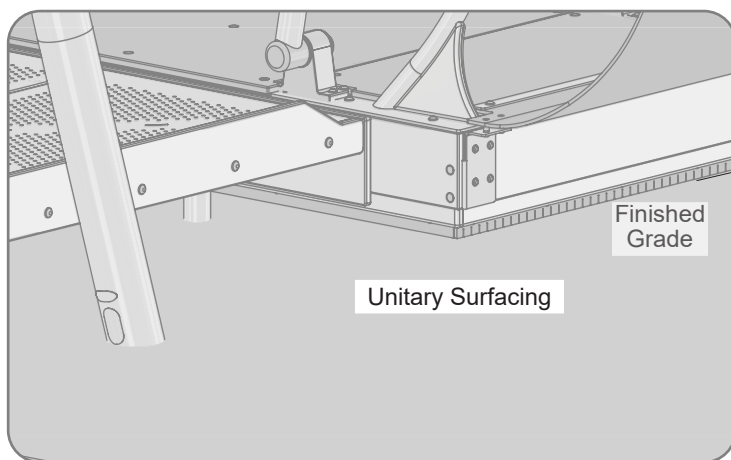


POUR IN PLACE WITH LOOSE FILL



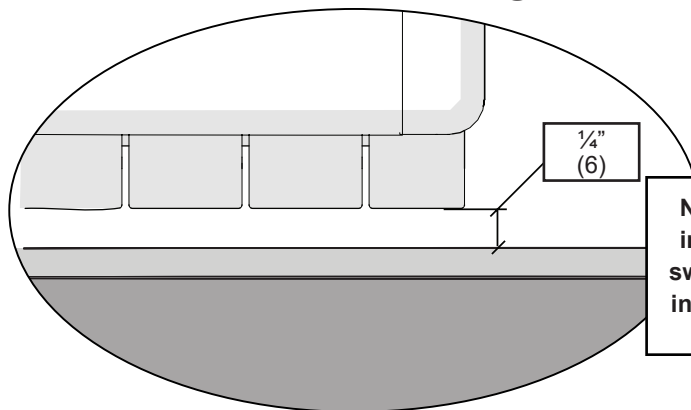
1 ½"-2" Unitary surfacing with a turn-down, covering concrete. Back fill with loose fill surfacing.

POUR IN PLACE



1 ½"-2" Unitary surfacing covering concrete and subgrade

SWEeper DETAIL



NOTE: When artificial turf is being used for protective surfacing, do not install the sweeps

NOTE : Sweepers must not drag along poured in place surfacing. The maximum distance the sweeper belts can be is 1/4" (6) from the poured in place surfacing. Adjust sweepers if needed



A PLAYCORE Company

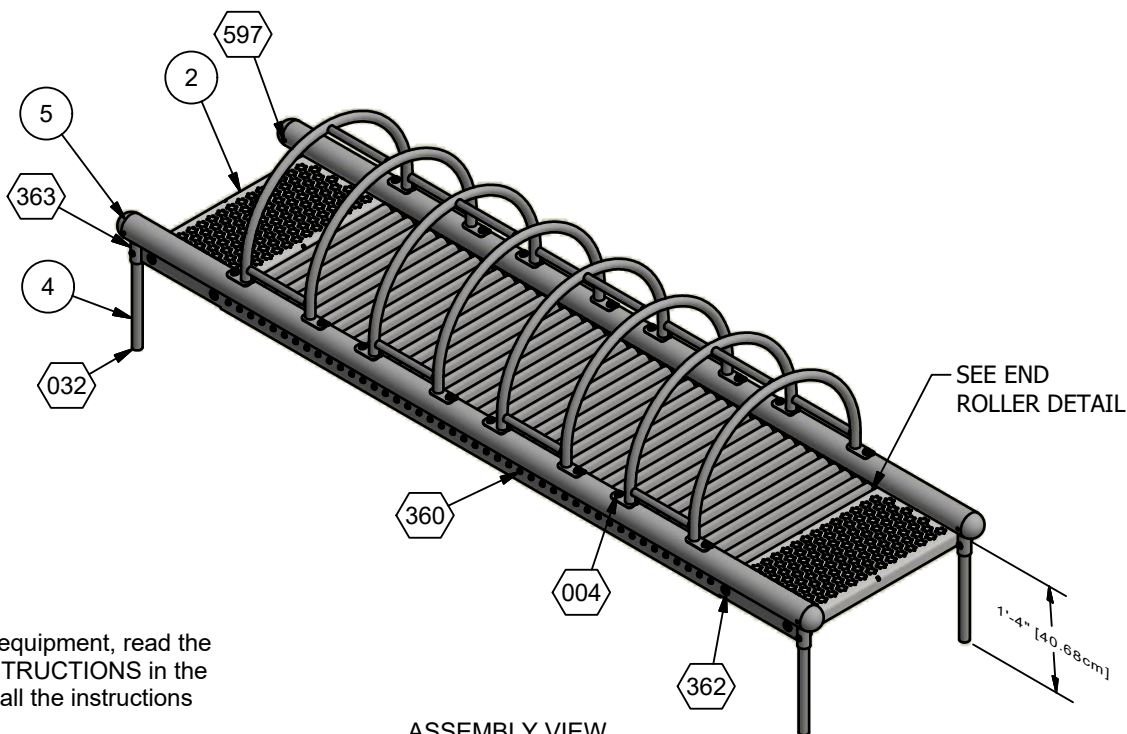
1-800-235-2440

91242

ROLLER TABLE

ISSUED/REVISED: 12/9/21

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE

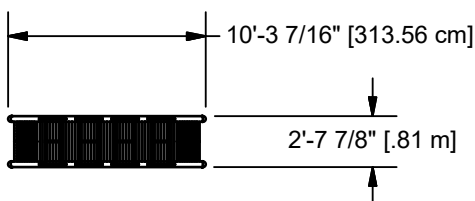


ASSEMBLY VIEW

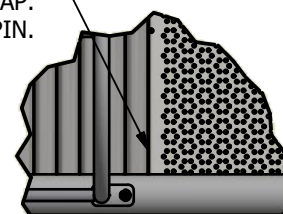
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

PLATFORMS SHOULD BE PUSHED AGAINST
ITS ADJACENT ROLLER TO REMOVE ANY GAP.
FIRST ROLLERS ON EACH SIDE WILL NOT SPIN.



TOP VIEW



END ROLLER DETAIL

SPECIFICATIONS

ARCH HANDHOLD: The arch handhold shall be fabricated from rolled 1-5/16" O.D., 14 gauge (.083") wall galvanized steel tubing with connector rungs be manufactured from 1 1-1/16" O.D., 15 gauge (.075") wall galvanized steel tubing. Mounting tabs shall be 3/16" hot rolled steel. Shall be one-piece welded assemblies and shall be coated with a custom formula TGIC polyester powder coating.

SIDE RAIL: The side rails shall be fabricated from 3 1/2" O.D. (.125" wall) aluminum tubing with a factory installed dome cap. The bottom rail shall be 1/4" aluminum with laser cut holes to receive roller shafts. The socket shall be 1 1/4" (SCH 40) pipe to receive in-ground pipe. Side rails shall be one-piece welded assemblies coated with a custom formula TGIC polyester powder coating.

PLATFORM: The platforms shall be fabricated from 12 gauge steel. Shall consist of a welded assembly with an oven cured matte finish polyvinyl chloride (PVC) coating with a minimum coating thickness of .080".

ROLLER ASSEMBLY: The rollers shall be fabricated from 1.90" O.D. (16 ga wall) galvanized pipe coated with a custom formula TGIC beige powder coating. Assembly includes polypropylene housed bearing and stainless steel hex shaft.

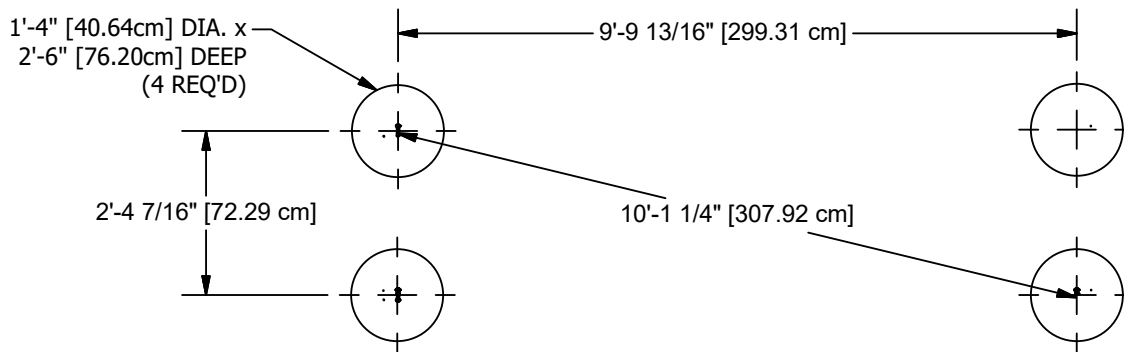
IN-GROUND PIPE: The In-ground pipes are fabricated from 1 5/16" O.D. (SCH 40) galvanized pipe. Shall be coated with a custom formula TGIC polyester powder coating.

INSTALLATION INSTRUCTIONS:

1. Dig footing holes as shown in Plan View and Elevation View.
2. Attach In-ground pipe to Side Rails. See Detail 363. Place Side Rails into footing holes.
3. Attach Roller Assemblies to Side Rails. See Detail 360. Do not tighten hardware until assembly is completed.
4. Attach Platforms to the Side Rails. See Detail 362. Do not tighten hardware until assembly is completed. Platforms should be against its adjacent roller.
5. Attach Arch Handholds to the top of the Side Rails. See Detail 004. Attach Caps to Siderails using Detail 597.
6. Plumb and level the entire assembly and tighten all fasteners.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

7. After entire unit is assembled pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
8. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.



GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED:

.24 CUBIC YARDS
[.20 CUBIC METERS]

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	SIDE RAIL	2	207805
2	PLATFORM	2	208872
3	ARCH HANDHOLD	4	207791
4	IN-GROUND PIPE	4	208889
5	3 1/2" DOME CAP	4	212995
6	ROLLER ASSEMBLY	44	220888
	HARDWARE COMPLETE	1	220666
	3/8" x 1 3/4" B.H.C.S.	4	811054*
	3/8" x 1 1/4" B.H.C.S.	24	811051*
	3/8" FLAT WASHER (1 1/4" O.D.)	16	817424*
	3/8" LOCK WASHER	28	817334*
	3/8" HEX NUT	8	804053*
	5/16" x 3/4" B.H.C.S.	88	811040*
	5/16" FLAT WASHER	88	817406*
	5/16" LOCKWASHER	88	817330*
	3/8" FLAT WASHER	16	817410*
	3/16" x 13/32" DRIVE RIVET	8	805366*
	3/8" BARREL NUT	4	804804*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

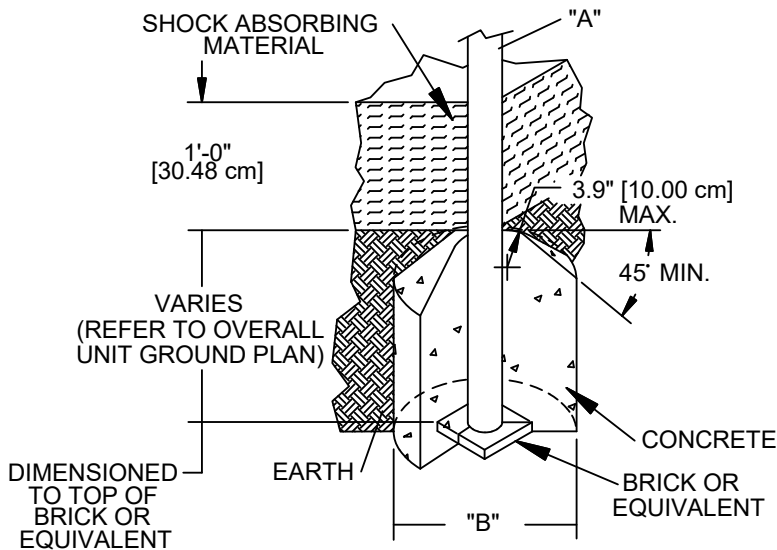
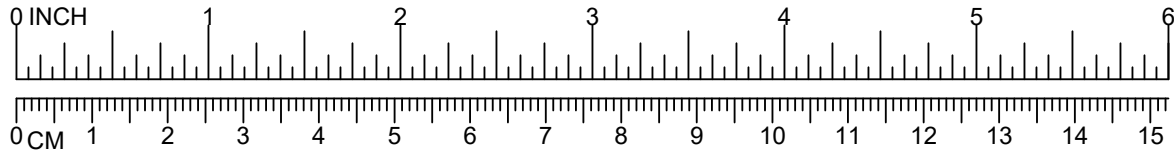
DETAILS -for- 91242

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



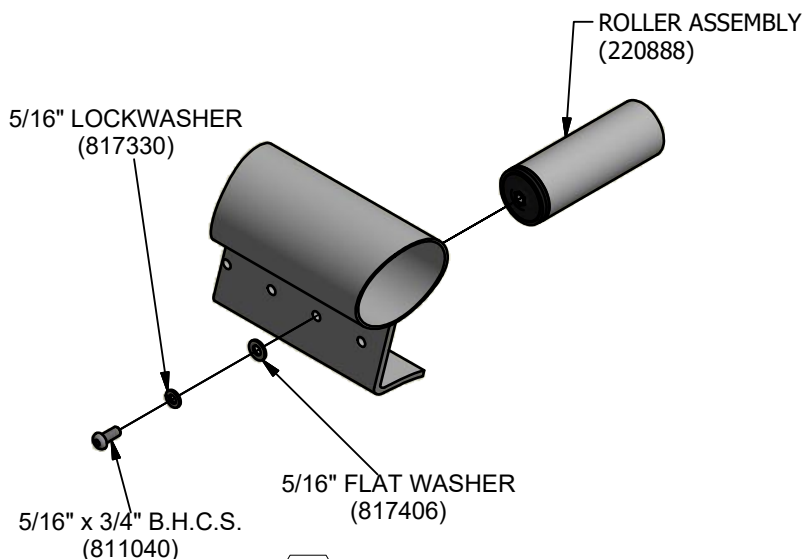
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

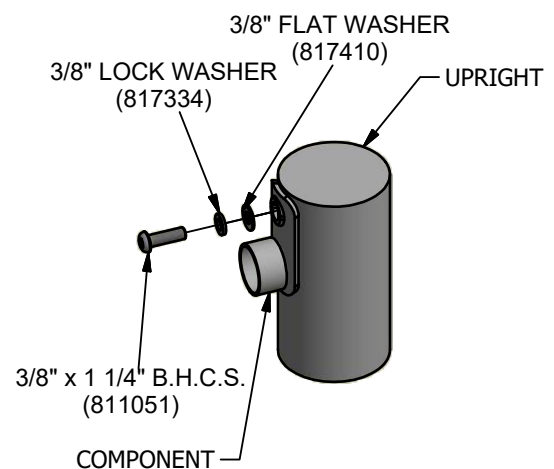
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



360



004

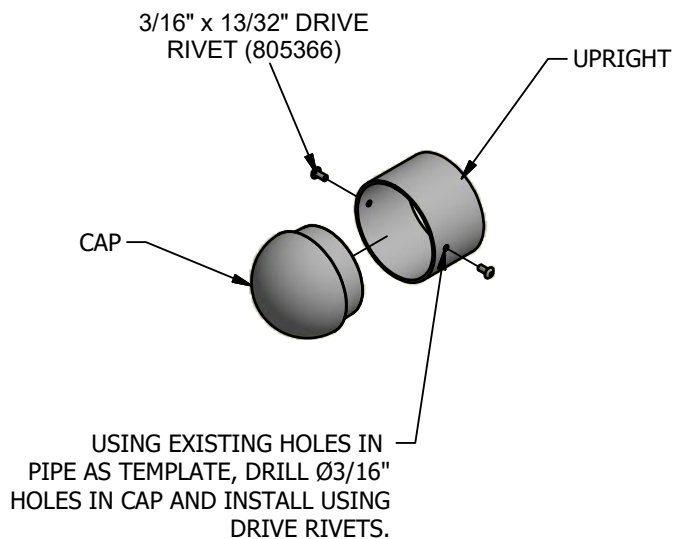
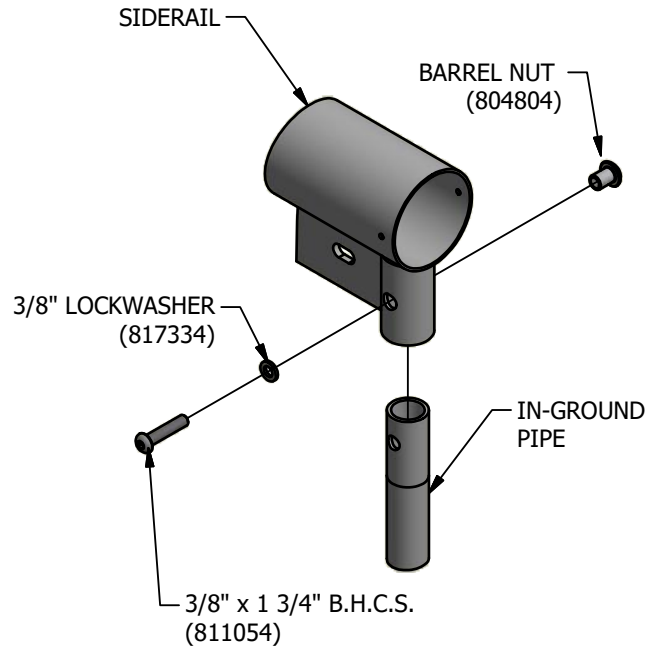
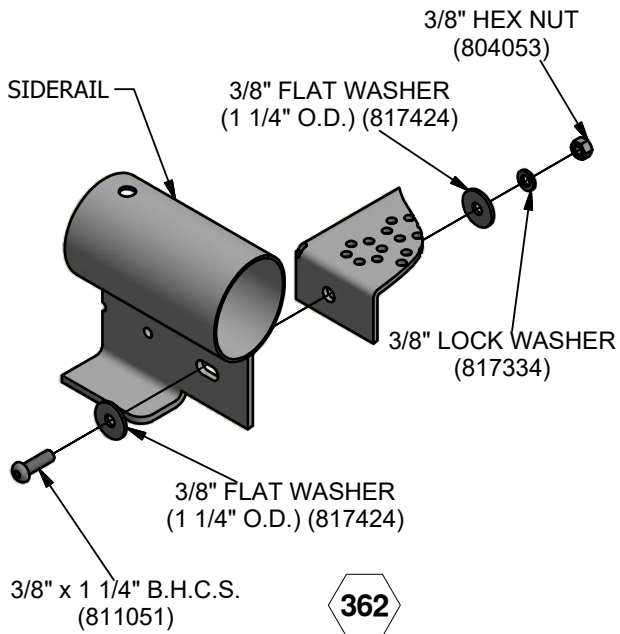
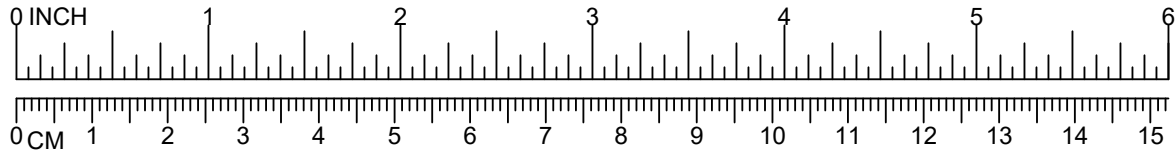
DETAILS -for- 91242

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.





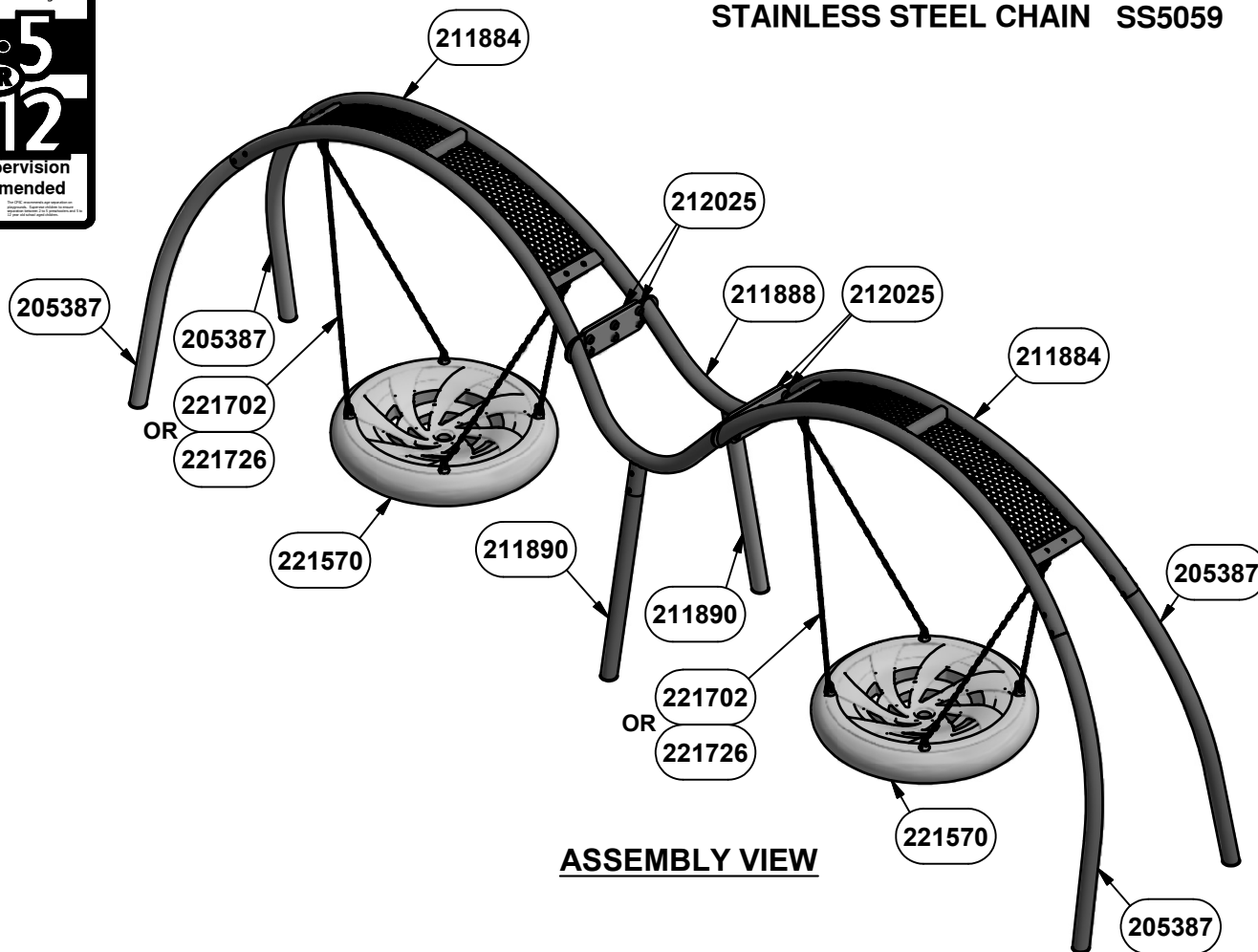
A **PLAYCORE** Company
1-800-235-2440

5059

DOUBLE ARCH SWING

ISSUED/REVISED: 8/13/2024

GALVANIZED CHAIN 5059
STAINLESS STEEL CHAIN SS5059



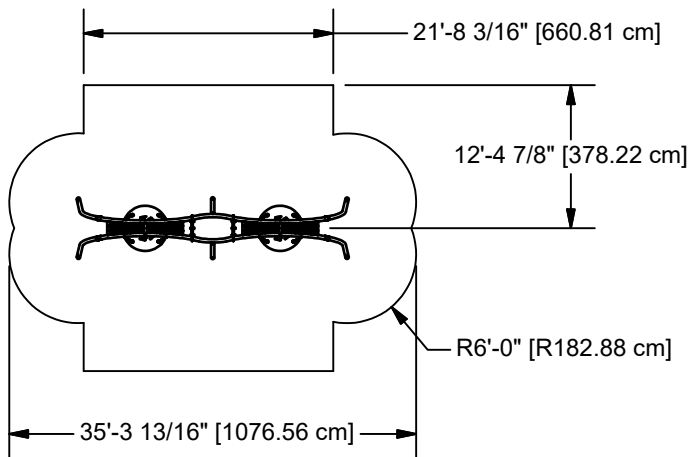
ASSEMBLY VIEW

INSTALLATION INSTRUCTIONS

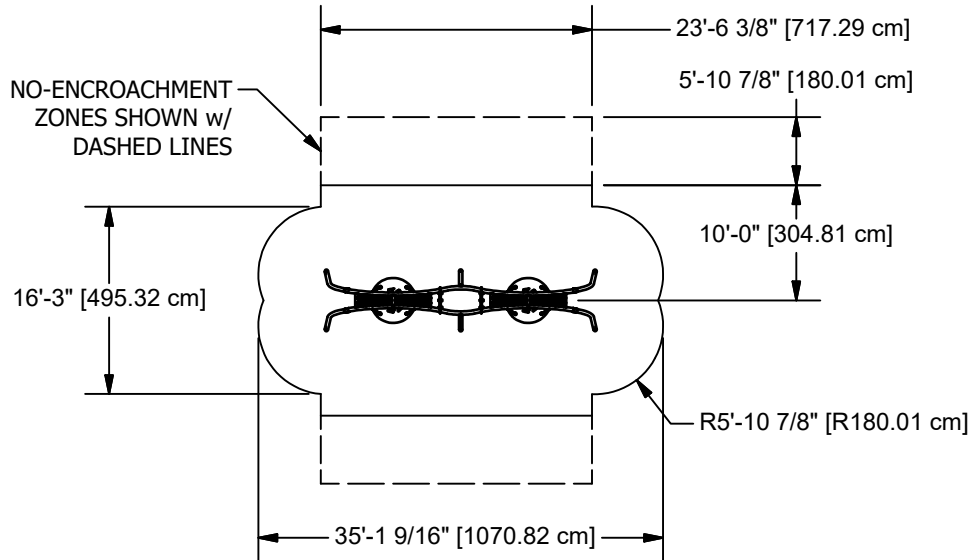
1. Before assembling this equipment, read the enclosed **INSTALLER INSTRUCTIONS** in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the **ASSEMBLY DRAWING**. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	300mm [11.81"]	N/A
ASTM	12" [305mm]	N/A
BS EN	400mm [15.75"]	N/A
CPSC	12" [305mm]	N/A

*UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]



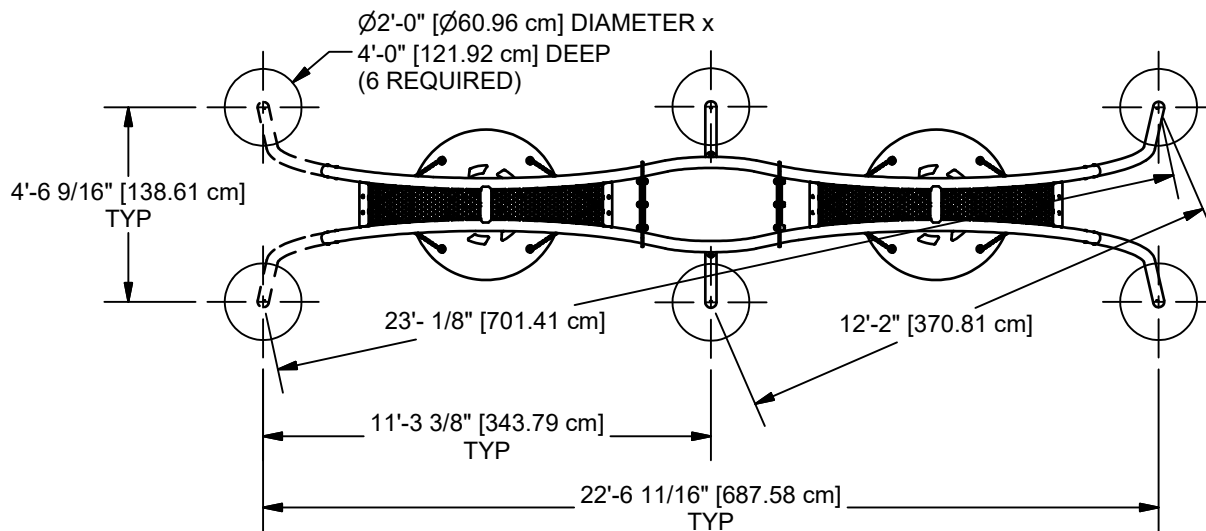
TOP VIEW



CSA ONLY

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA NO-ENCROACHMENT ZONE (CANADA ONLY).



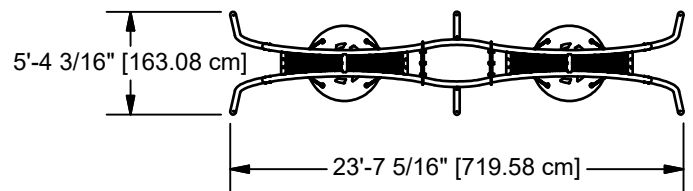
PLAN VIEW

NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

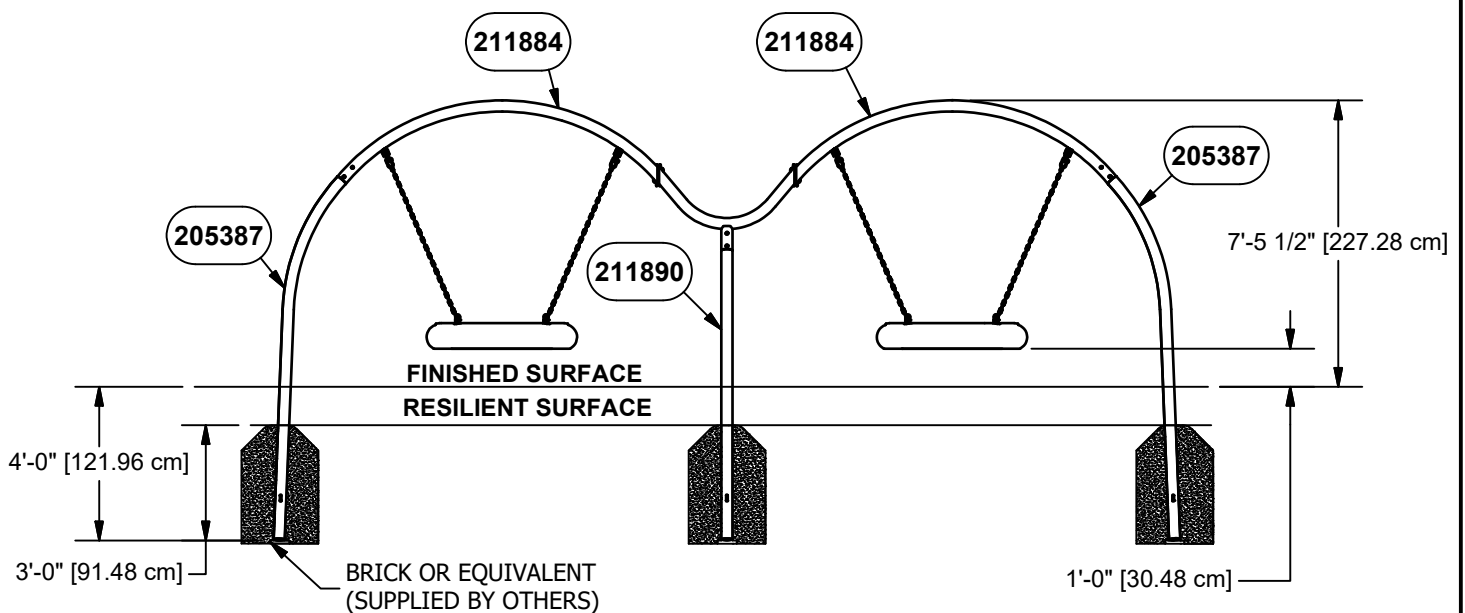
CONCRETE REQUIRED
2.09 CUBIC YARDS
[1.60 CUBIC METERS]

DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	300mm [11.81"]	N/A
ASTM	12" [305mm]	N/A
BS EN	400mm [15.75"]	N/A
CPSC	12" [305mm]	N/A

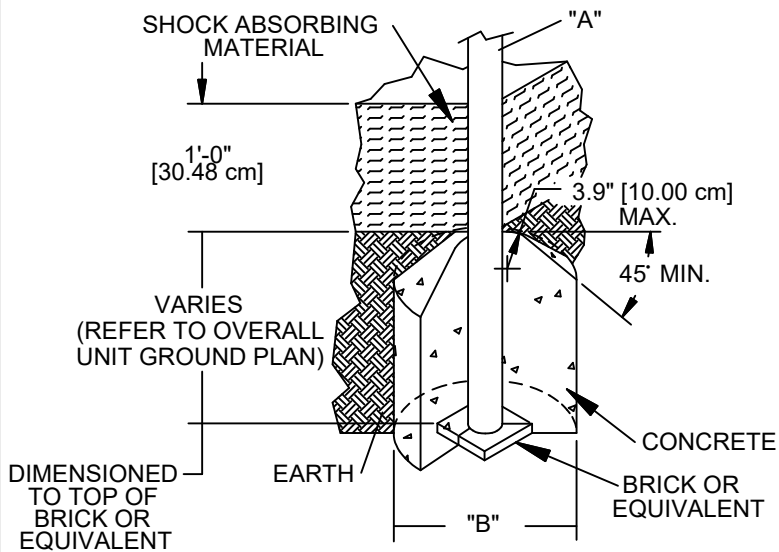
*UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]



TOP VIEW



ELEVATION VIEW



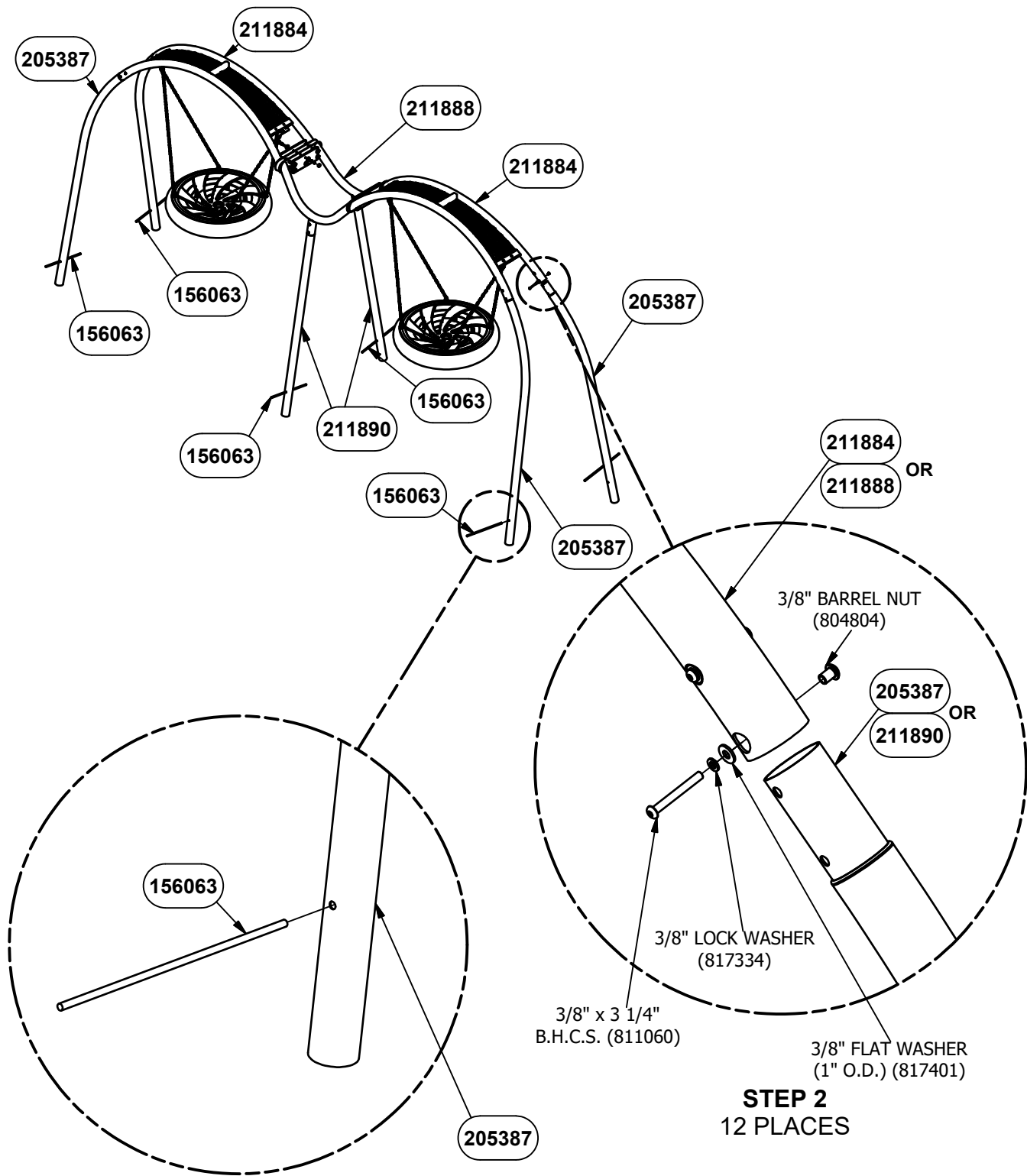
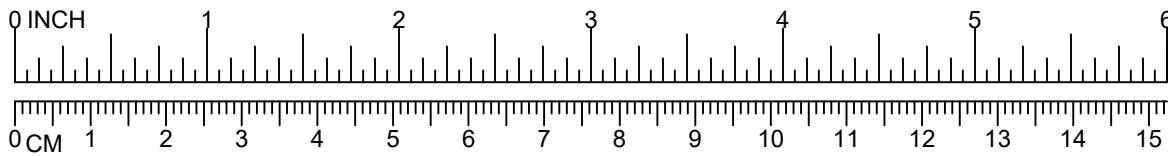
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
ARCH SWING	
5" [12.70 cm]	2'-0" [60.96 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

FOOTING DETAIL

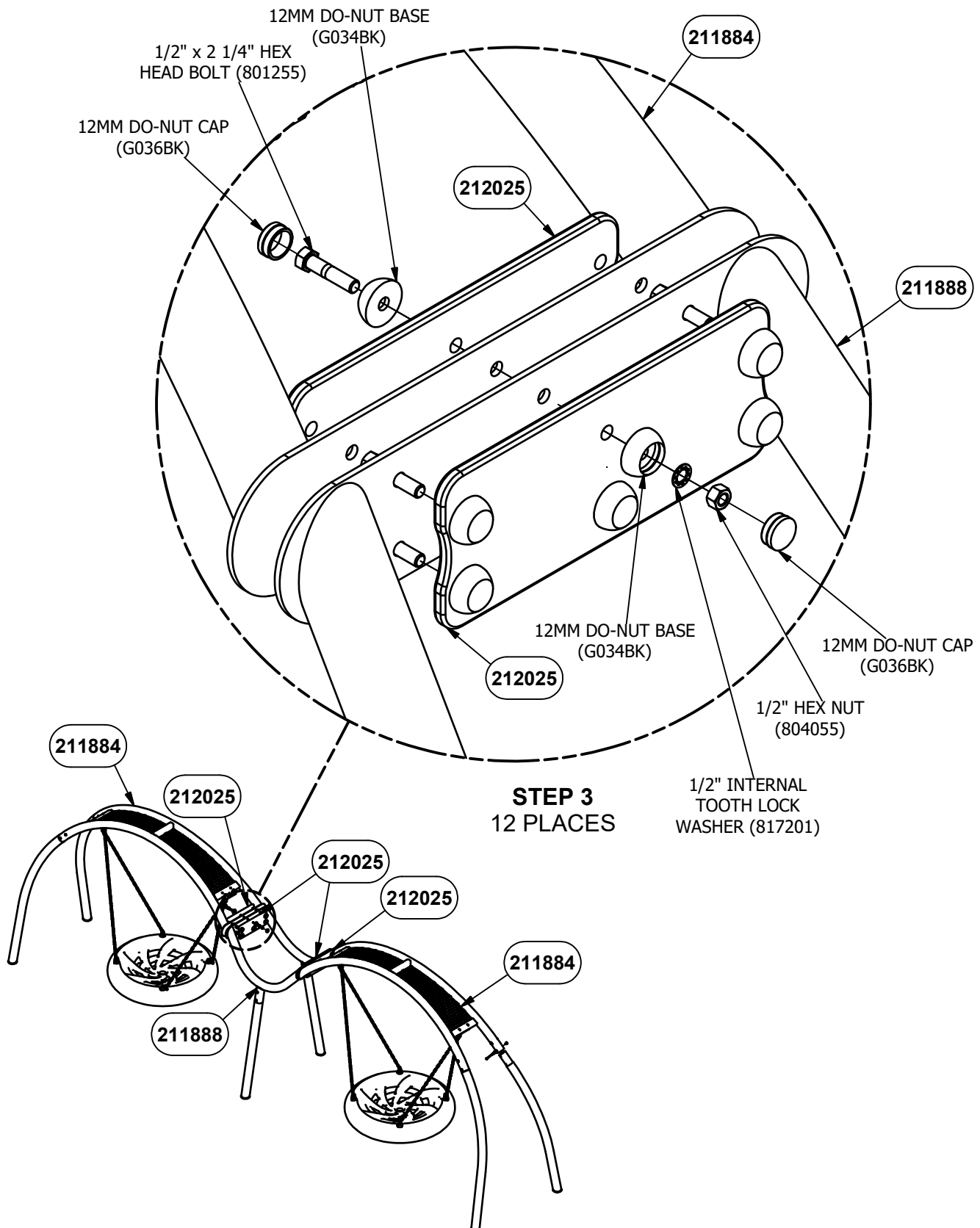
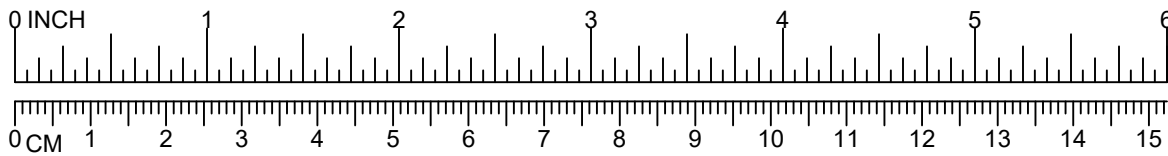


STEP 1
6 PLACES

STEP 2
12 PLACES

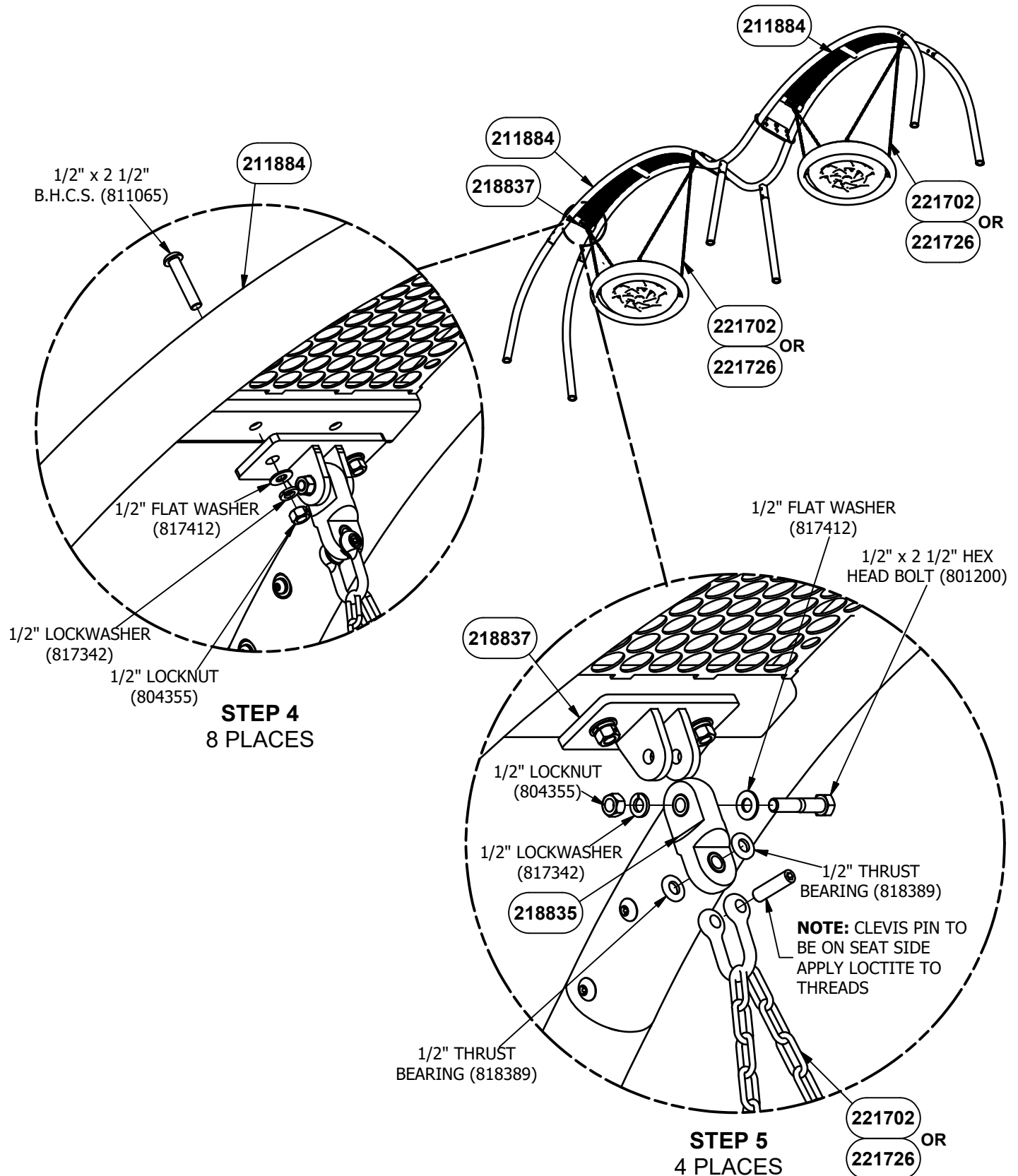
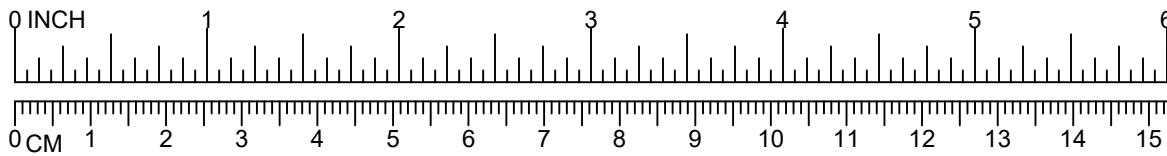
DETAIL VIEW

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



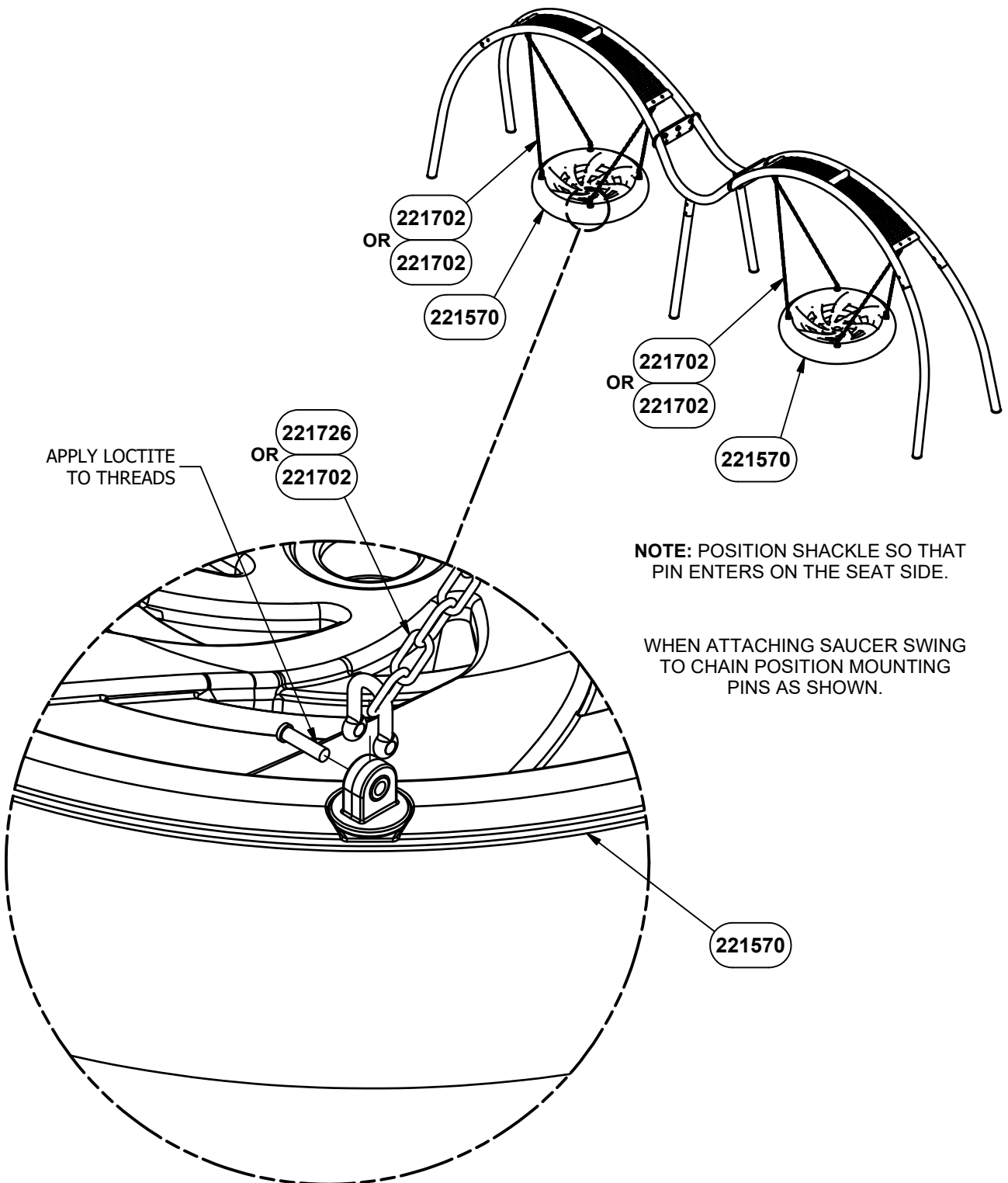
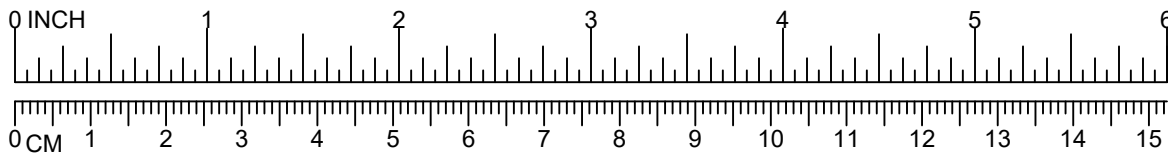
DETAIL VIEW

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



DETAIL VIEW

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.



STEP 6
8 PLACES

DETAIL VIEW

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.

☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

☐ Check to be sure all fittings are tight and that the bars and pipes do not move.

☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

SPECIFICATIONS

TOPRAIL ASSEMBLY: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing and from .083" (12 Gauge) Thick H.R Steel, Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

CENTER ASSEMBLY: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Fabricated Part shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

LEGS: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Fabricated Part shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

MOUNTING PLATE WELD ASSEMBLY: Shall be fabricated of 3/8" thick HR steel. Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

ARCH SWING CONNECTOR: Shall be fabricated from 304 Stainless Steel and SAE 841 Oil Impregnated Bronze Bushings.

GALVANIZED CHAIN: Shall be fabricated from #80 4/0 straight link coil Steel chain, cut to length.

STAINLESS STEEL CHAIN: Shall be fabricated from #50 4/0 straight link coil Stainless Steel chain, cut to length.

CENTER HDPE TRIM: Shall be made from 1/2" thick (solid) high density, UV-stabilized and color impregnated polyethylene.

SAUCER ASSEMBLY: Saucer seat assembly shall be constructed using rotationally molded plastic and coated steel cable. Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790). Cable shall be 18mm diameter UV protected Polyamide Nylon rope with breaking load greater than or equal to 60KN. 6 strands each containing 19 steel reinforcement cords. (0.49mm cords within a Polypropylene Thermo-fixed sleeve wrapped around a reinforced fiber core containing 3 3.7mm strands.)

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

Parts List			
DESCRIPTION	5059	SS5059	PART NUMBER
TOPRAIL ASSEMBLY	2	2	211884
CENTER ASSEMBLY	1	1	211888
LEG	2	2	211890
LEG	4	4	205387
MOUNTING PLATE WELD ASSEMBLY	4	4	218837
GALVANIZED CHAIN CONNECTION ASSEMBLY	4	0	221702
STAINLESS STEEL CHAIN CONNECTION ASSEMBLY	0	4	221726
SAUCER SWING ASSEMBLY	2	2	221570
CENTER HDPE TRIM	4	4	212025
HARDWARE COMPLETE	1	1	221596
3/8" x 3 1/4" B.H.C.S.	12	12	811060*
3/8" FLAT WASHER (1" O.D.)	12	12	817401*
3/8" LOCK WASHER	12	12	817334*
3/8" BARREL NUT	12	12	804804*
1/2" x 2 1/4" HEX HEAD BOLT	12	12	801255*
1/2" x 2 1/2" B.H.C.S.	8	8	811065*
1/2" x 2 1/2" HEX HEAD BOLT	4	4	801200*
1/2" FLAT WASHER	12	12	817412*
1/2" LOCKWASHER	12	12	817342*
1/2" INTERNAL TOOTH LOCK WASHER	12	12	817201*
1/2" HEX NUT	12	12	804055*
1/2" LOCKNUT	12	12	804355*
12MM DO-NUT BASE	24	24	G034BK*
12MM DO-NUT CAP	24	24	G036BK*
22" ANCHOR ROD	6	6	156063*
ARCH SWING CONNECTOR	4	4	218835*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

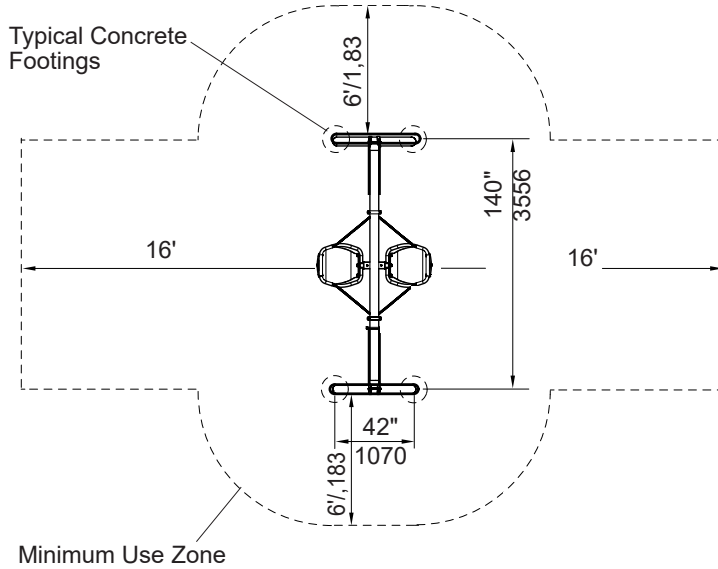
Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

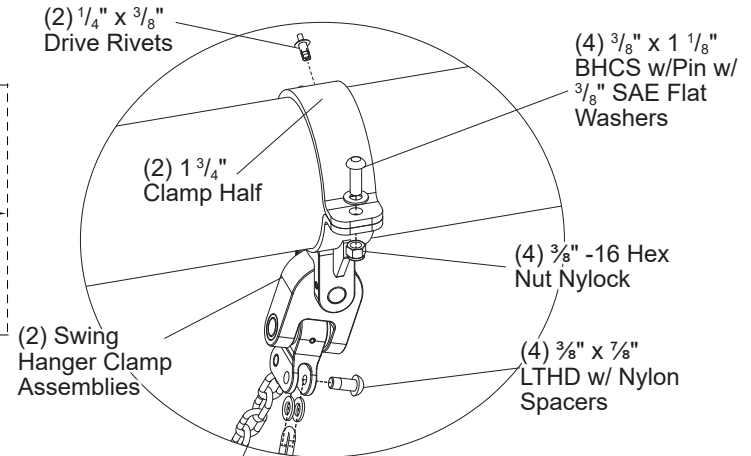
MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

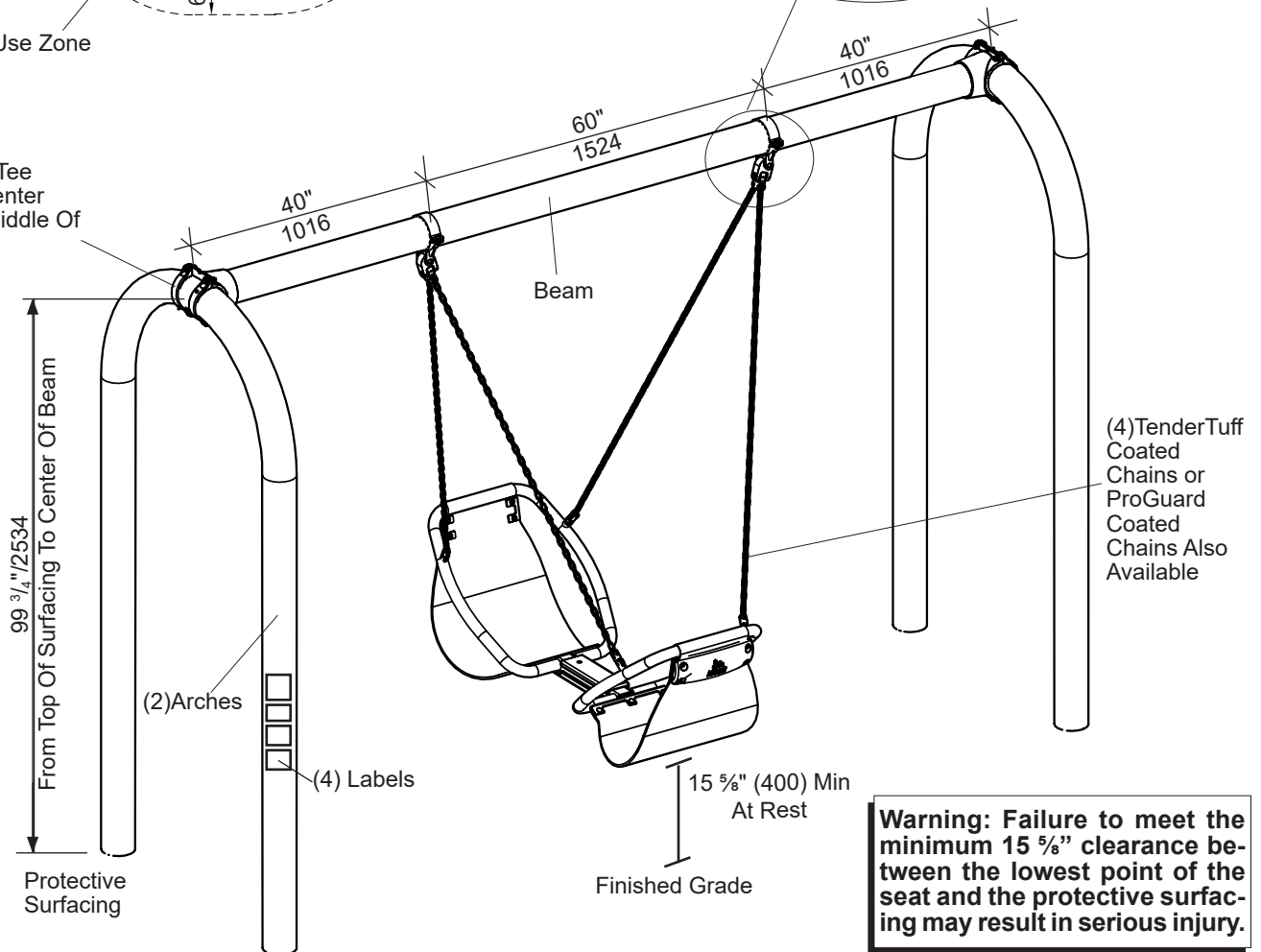
PLAN VIEW/FOOTING LAYOUT



DETAIL SWING HANGER ATTACHMENT



(2) Typical Tee Clamps-Center Beam In Middle Of Arch



Warning: Failure to meet the minimum 15 5/8\"

Model #237294 Additional Bay

Swings 237293/237294 Friendship Swing w/Arch Frame Sheet 1 of 2

601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #30926300



Swings 237293/237294 Friendship Swing w/Arch Frame

Parts List

Part#	Description	Qty.	2 Pl	Add. Bay
105327	Clmp Half 5i Al, Specify Color.....	4.....*		
126749	Arch Asy Pb 112-3/4 Al Db, Specify Color.....	2.....1		
175738	Bumper Bucket Seat Rubber.....	2.....2		
216492	Beam 5i Od X 140i Al, Specify Color.....	1.....1		
229492	Belt Bumper Seat Frame, Specify Color.....	1.....1		
229497	Belting Friendship Swing Seat.....	2.....2		
229500	Channel Cap Top Perm, Black.....	1.....1		
230235	Rubber Wrap Belt.....	2.....2		
237598	Channel Cap Bottom, Black.....	1.....1		
183829	Chn 3/16 P30 62-1/2i (ProGuard Chains).....	4.....4		
237686	Clmp Half 1-3/4i Wd SST, Specify Color.....	2.....2		
237734	Swing Hanger Asm, Speicify Color.....	2.....2		
242397	Chn 3/16 P30 62-1/2i (TT Chn), Specify Color.....	4.....4		
237915	Top Belt Plate, Black.....	4.....4		
237916	Lower Belt Plate, Black.....	2.....2		
238080	Hdw Pkg 5i Swing Beam.....	1.....1		
100198	BHCS 6LP 3/8X1-1/8i SST.....	4.....4		
100330	Nut Hex Nylok 7/16-14 SST.....	8.....8		
100365	Washer Flat SAE 3/8i SST.....	4.....4		
100610	Rivet 1/4X5/8i Drv AS.....	4.....4		
100611	Rivet 1/4X3/8i Drv AS.....	2.....2		
115176	Label Hd Srf Warning ASTM.....	1.....1		
136931	Nut Hex Nylok 3/8-16 SST.....	4.....4		
156846	Label Play Safe 2-12 Yrs.....	1.....1		
182212	Label Entanglement Warning.....	1.....1		
182213	Label Hot Surface Warning.....	1.....1		
234397	BHCS 6LP LTHD 7/16 X 1 1/16, SST.....	8.....8		
234937	Washer Fl D-Cut 7/16i SST.....	16.....16		
288845	Hdw Pkg Friendship Swing Seat.....	1.....1		
100173	BHCS 6LP 3/8X2i SST Pat.....	2.....2		
100353	Flg Nut 6LP 3/8-16 SST.....	10.....10		
137091	FHCS 3/8X1i SST Pat.....	8.....8		
148686	FHCS 6LP 3/8X3/4i SST Pat.....	6.....6		
115875	SPACER 1 1/8OD X 1 AL,Black.....	2.....2		
309267	Hdw Pkg Chain Swivels W/Bolts(ProGuard).....	1.....1		
100290	BHCS 6LP Lthd 3/8X7/8i SST.....	12.....12		
112501	Spacer Nylon 3/8i Id.....	16.....16		
127179	Bushing 5/8Od X 3/8 Lg SST.....	4.....4		
218781	Rope Swivel Tab.....	4.....4		
238083	Hdw Pkg Chain Swivels W/Bolts (TT Chn).....	1.....1		
100290	BHCS 6LP Lthd 3/8X7/8i SST.....	12.....12		
127179	Bushing 5/8Od X 3/8 Lg SST.....	4.....4		
218781	Rope Swivel Tab.....	4.....4		

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

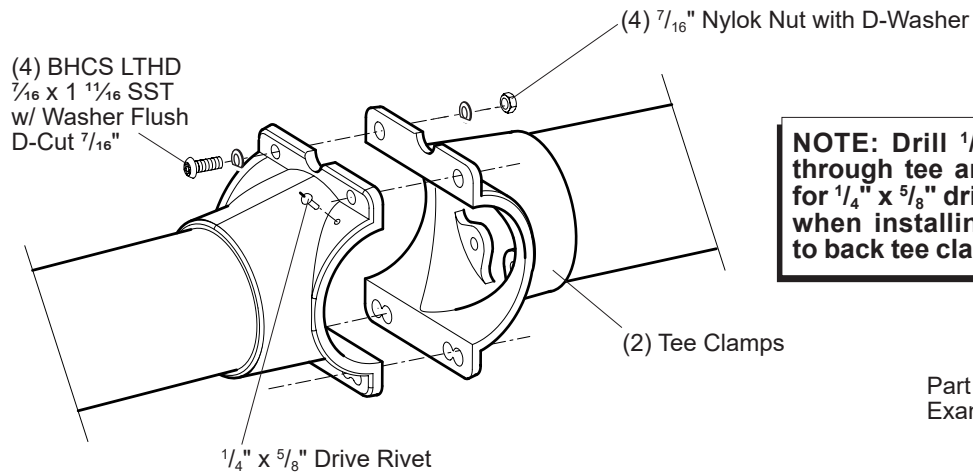
Specifications

Arch Posts:	See PlayBooster® (PB) General Specifications.
Belt:	Made from .315" thick mini rough top 3-ply rubber belting with polyester fabric plys, black in color.
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).
Swing Seat Brkt:	Weldment comprised of 1.66" (42,16 mm) O.D. RS-40 (.108" - .132") (2,74 mm-3,35 mm) wall galvanized steel tube, 1.000" (25,4 mm) O.D. x .750" (19,05 mm) I.D. 1018 steel tube and 7GA (.179") (4,55 mm) HRPO steel sheet. Finish: ProShield®, color specified.
Installation Time:	Approx. 8 man hours Additional Bay 4 man hours
Concrete Req.:	Approx. 7.5 cu. ft. Additional Bay 3.75 cu. ft.
Area Req.:	24'-1" x 32' (7,34 m x 9,75 m) Additional Bay 18'-1" x 32' (5,51 m x 9,75 m)
Weight:	1 Place w/ProGuard Chain 276 lbs. 1 Place w/TenderTuff Chain 279 lbs. Additional Bay w/ProGuard Chain 214 lbs. Additional Bay w/TenderTuff Chain 218 lbs.
Fall Height:	96" (2,43 m)

Installation Instructions

- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 7/16" BHCS w/Pin, 7/16" D-Cut Washers, and 7/16" Nylok nuts. Refer to the Tee Clamp Position 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.
- 3) Level beam and plumb arches 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 Typical Swing Hanger Clamp Spec Sheet.
- 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.

**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.

**DETAIL
CONCRETE FOOTING**

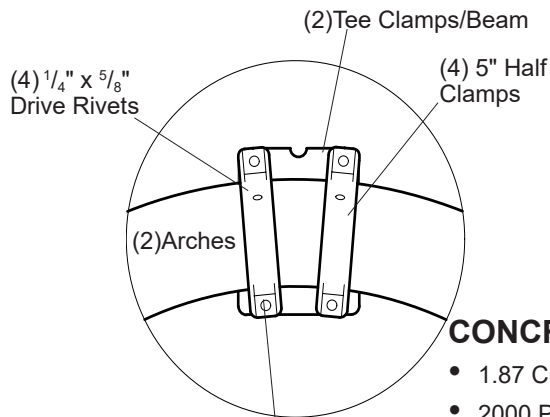
Finish Grade
Sticker

Part Number Label
Example

107700-00-001
BLUE POST WITH FINISH GRADE STICKER

Number Indicates
Post Length

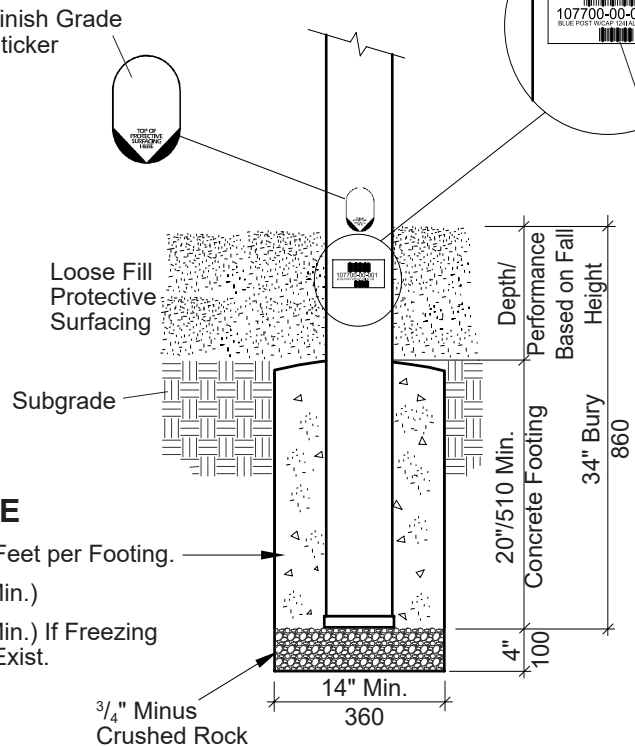
**DETAIL
TEE CLAMP POSITION**



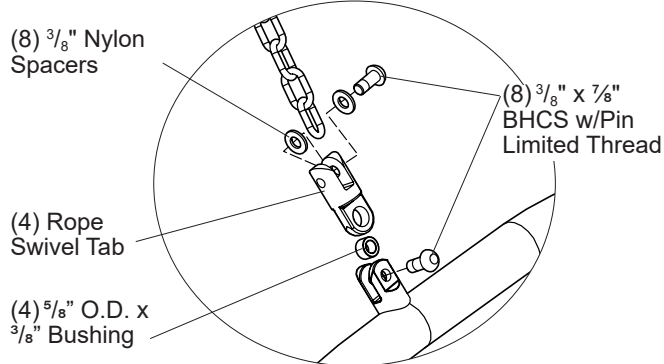
NOTE: Use inside holes for (4) 7/16 BHCS w/Pin limited thread w/D-Washer 7/16 Nylok Nut w/D-Washer

CONCRETE

- 1.87 Cubic Feet per Footing.
- 2000 PSI (Min.)
- 3000 PSI (Min.) If Freezing Conditions Exist.

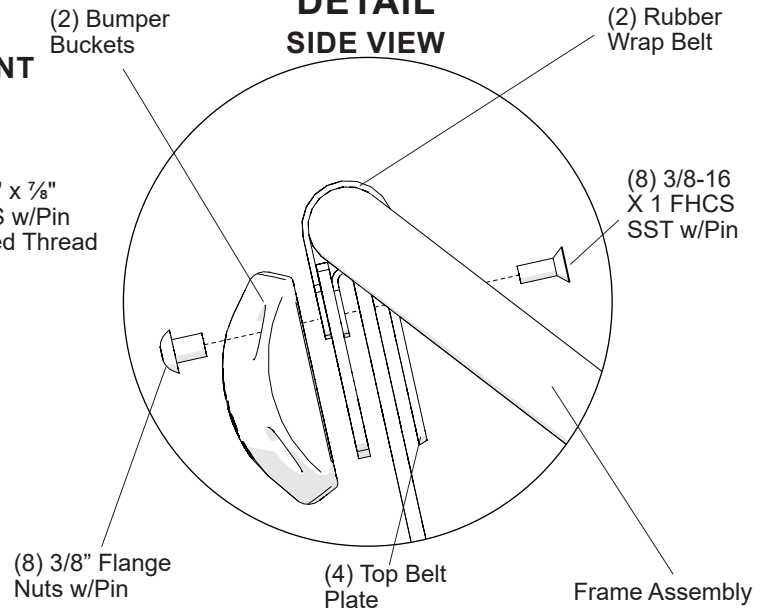


**DETAIL
SWING TO CHAIN ATTACHMENT**

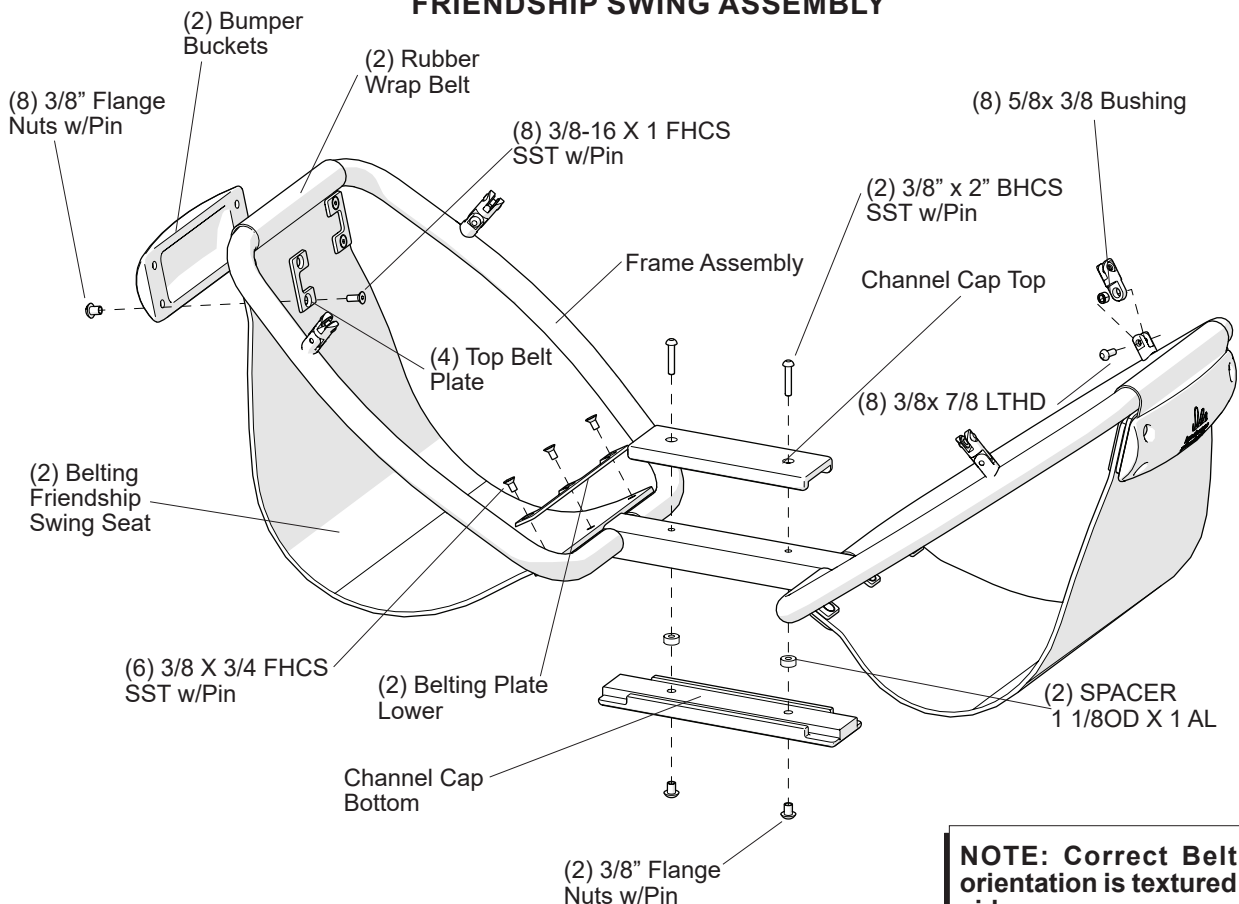


NOTE: Drill 1/4" hole through tee and arch for 1/4" x 5/8" drive rivet when installing back to back tee clamps.

**DETAIL
SIDE VIEW**

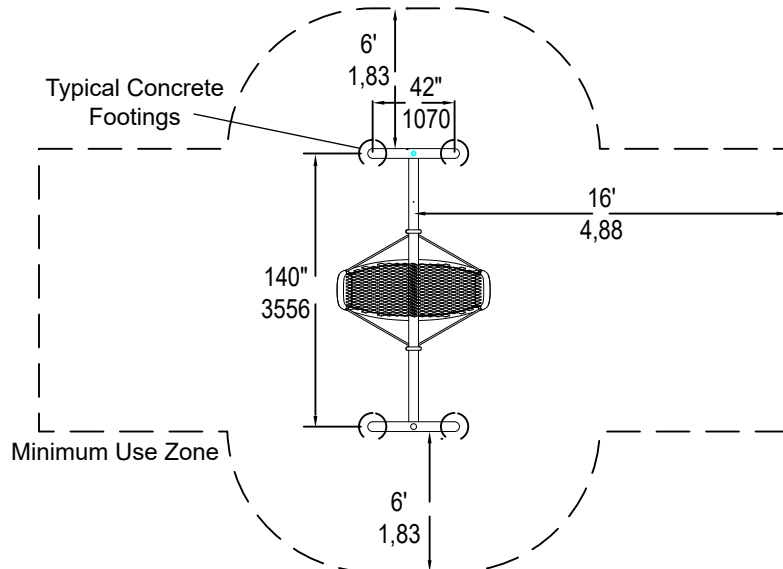


**DETAIL
FRIENDSHIP SWING ASSEMBLY**

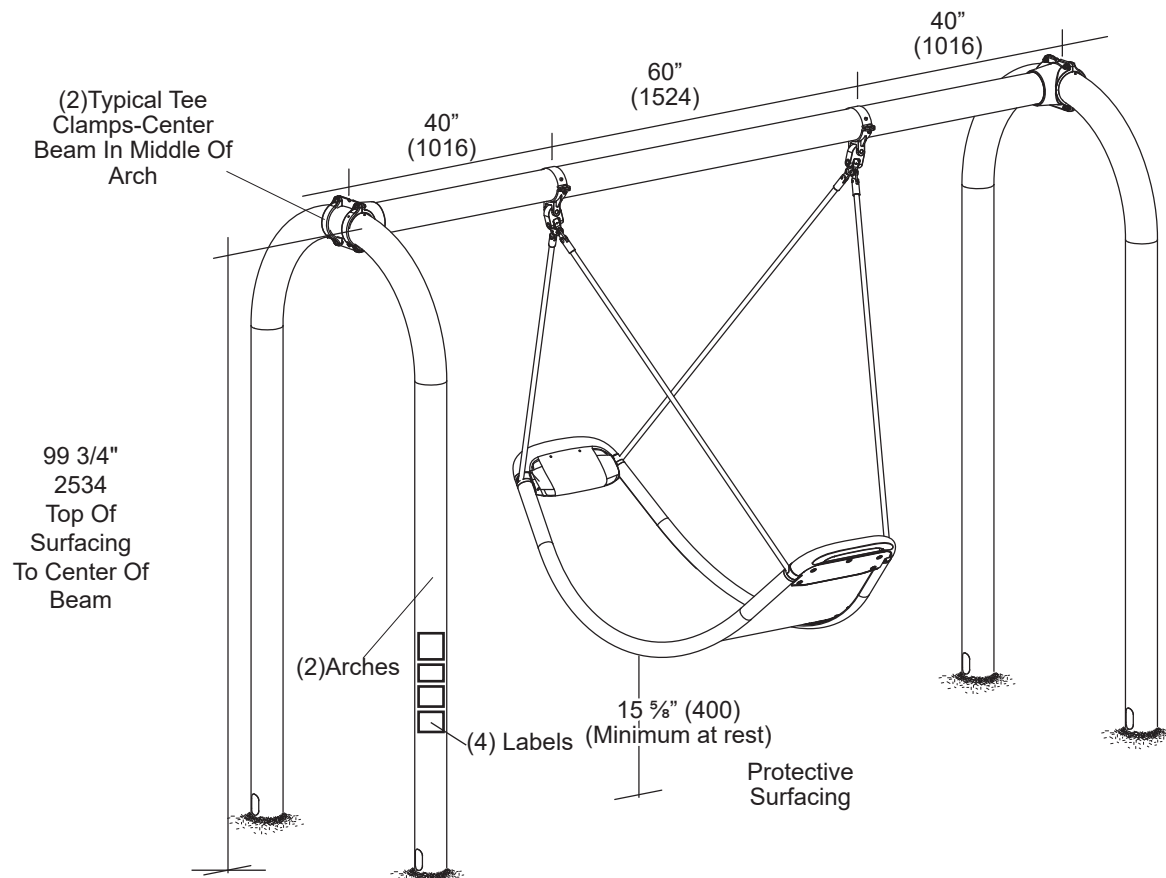
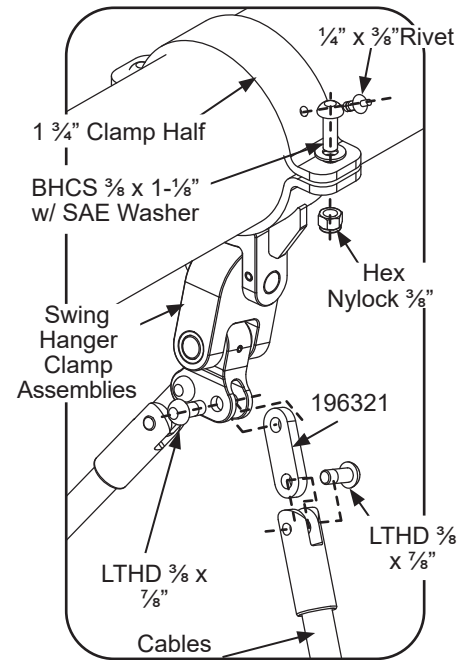


NOTE: Correct Belt orientation is textured side up.

PLAN VIEW/FOOTING LAYOUT



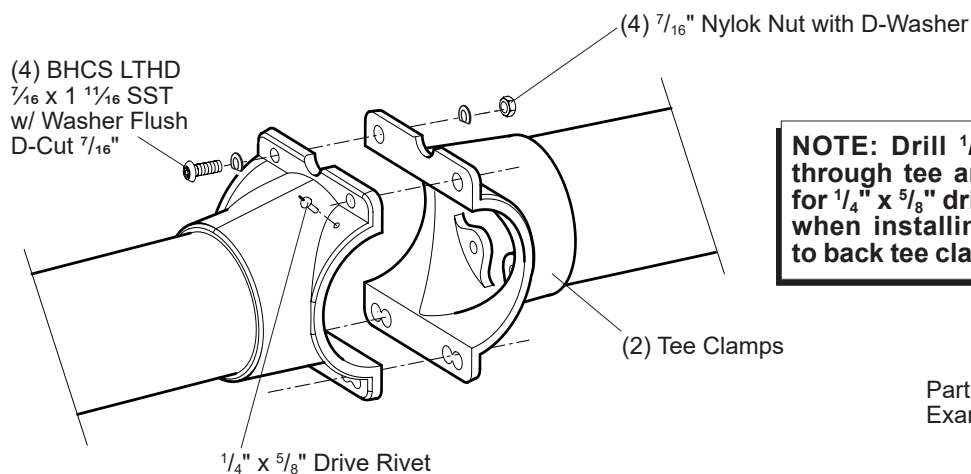
DETAIL CABLE ATTACHMENT



Swings 352215/352216 Flexx™ Swing w/ Arch Frame

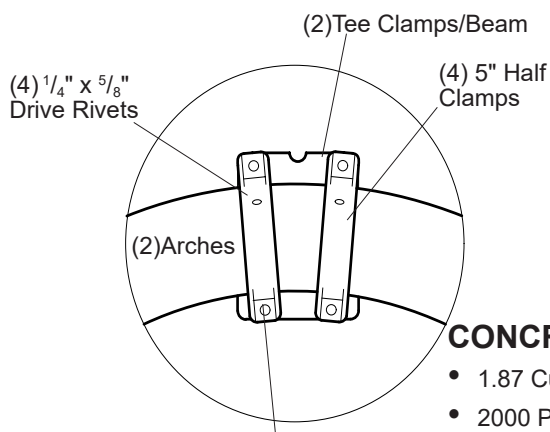
Page 1

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.

DETAIL TEE CLAMP POSITION

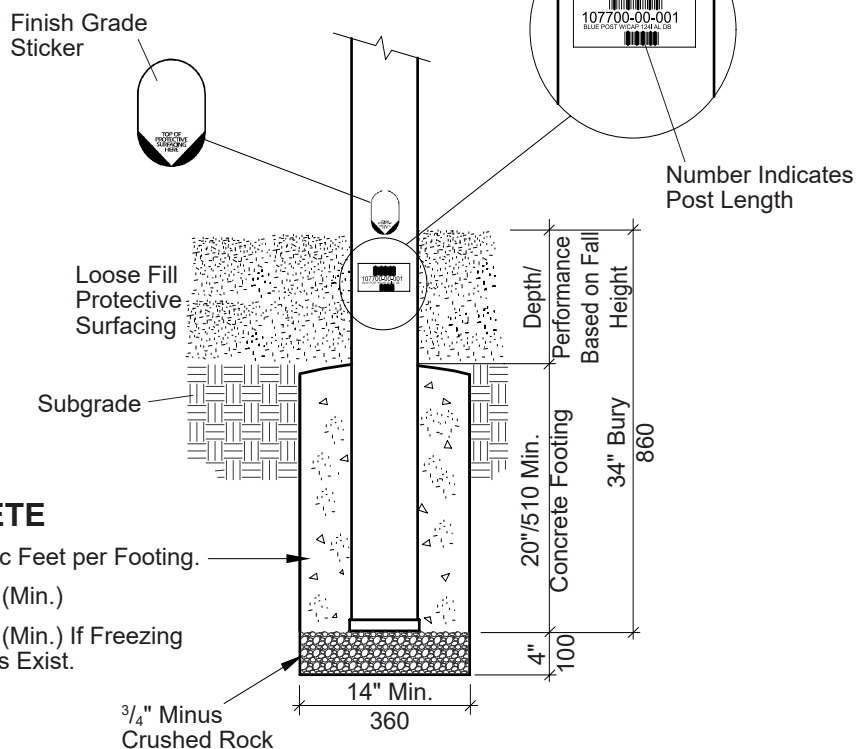


NOTE: Use inside holes for (4) 7/16 BHCS w/Pin limited thread w/D-Washer 7/16 Nylok Nut w/D-Washer

CONCRETE

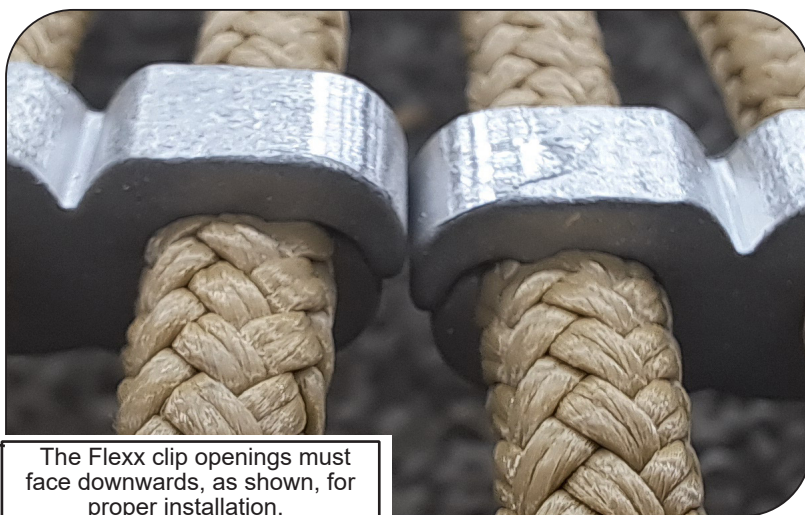
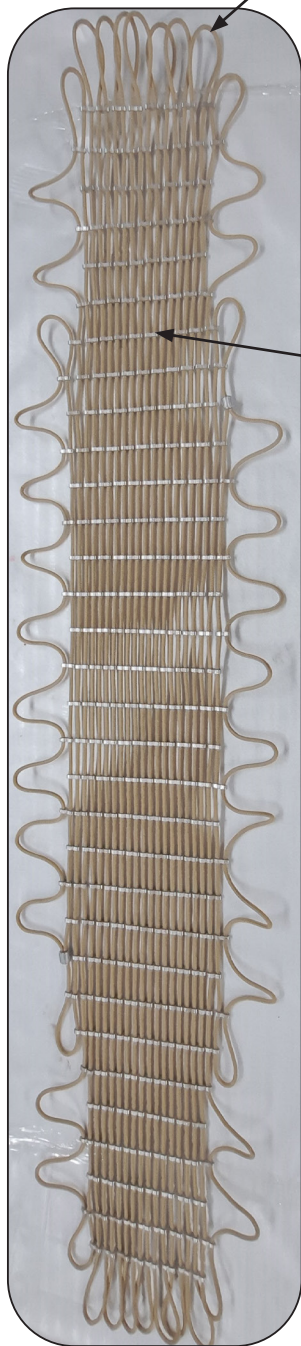
- 1.87 Cubic Feet per Footing.
- 2000 PSI (Min.)
- 3000 PSI (Min.) If Freezing Conditions Exist.

DETAIL CONCRETE FOOTING

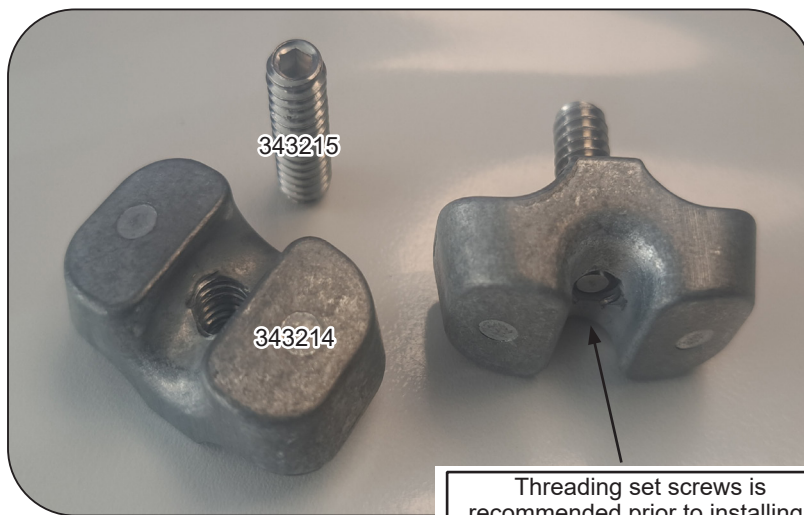


The Flexx clip openings must face downwards, as shown, for proper installation.

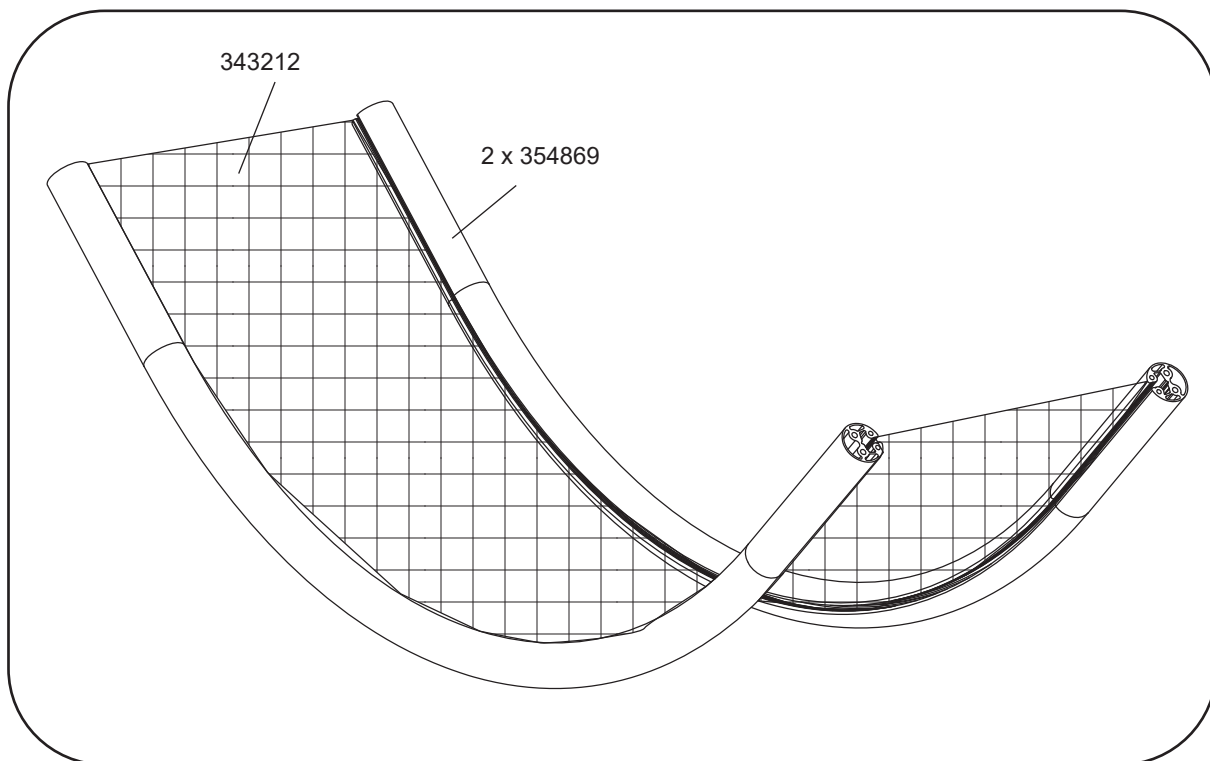
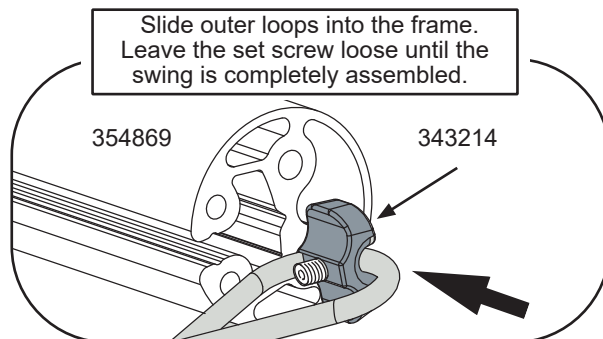
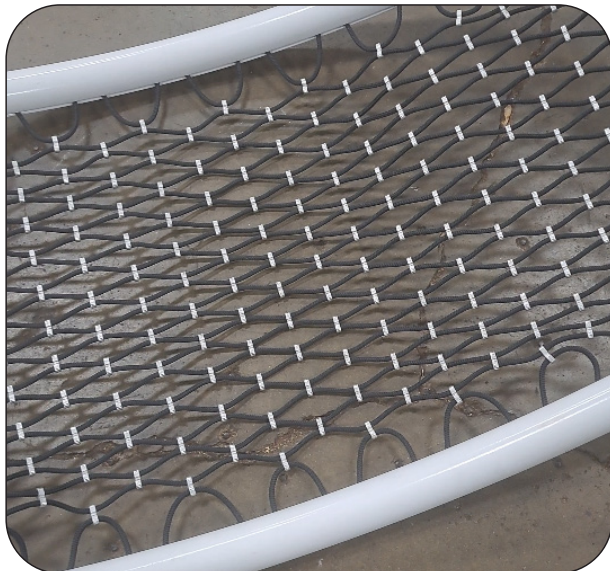
The net has seven loops at the end that do not slide into the rails. Marking these loops with tape may help during assembly



The Flexx clip openings must face downwards, as shown, for proper installation.

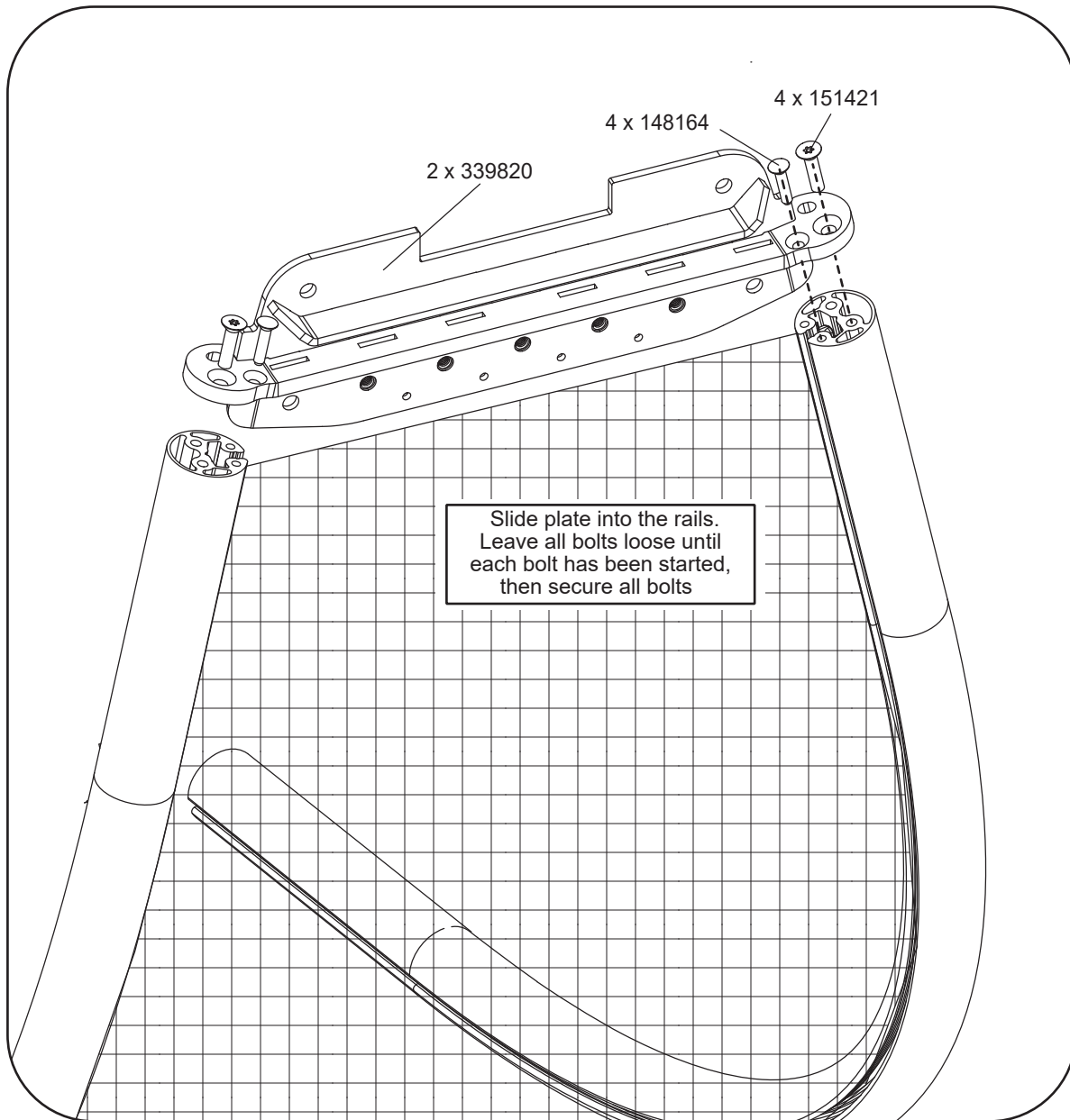


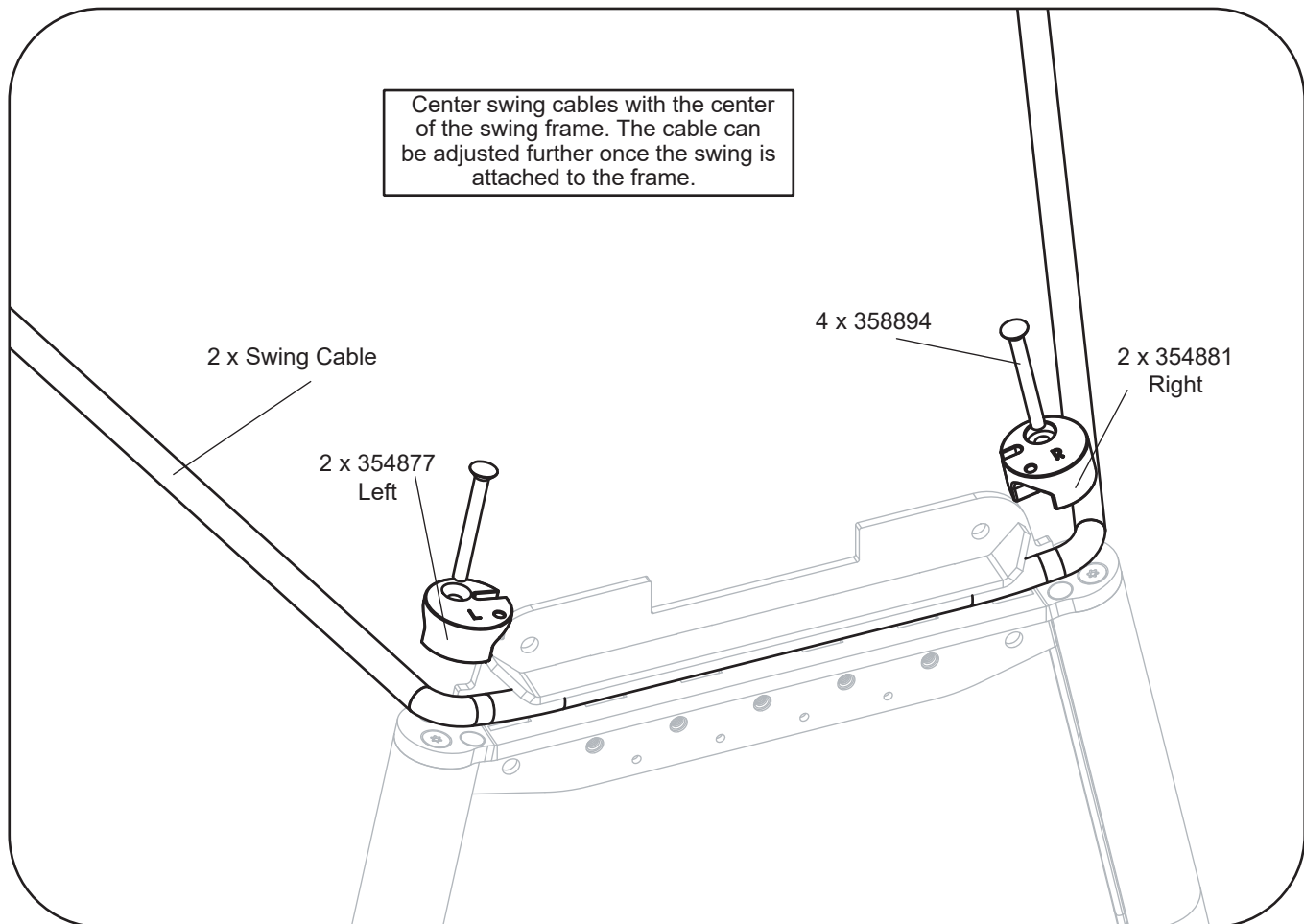
Threading set screws is recommended prior to installing the Flexx net into rails. Be sure that the flat end is flush with rope side connection as shown.

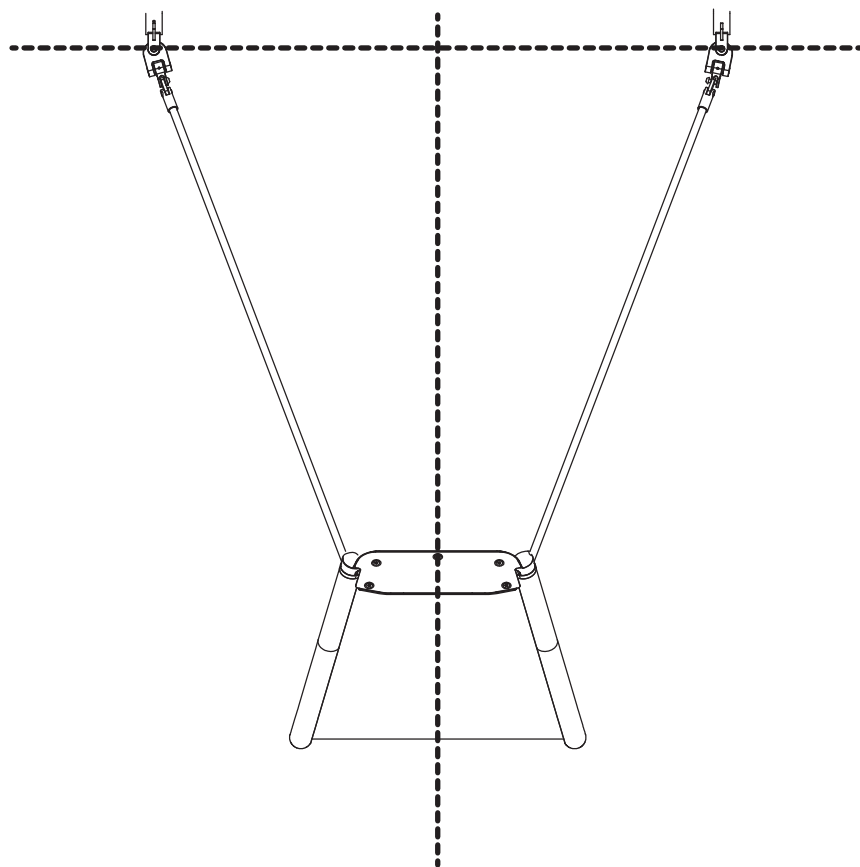
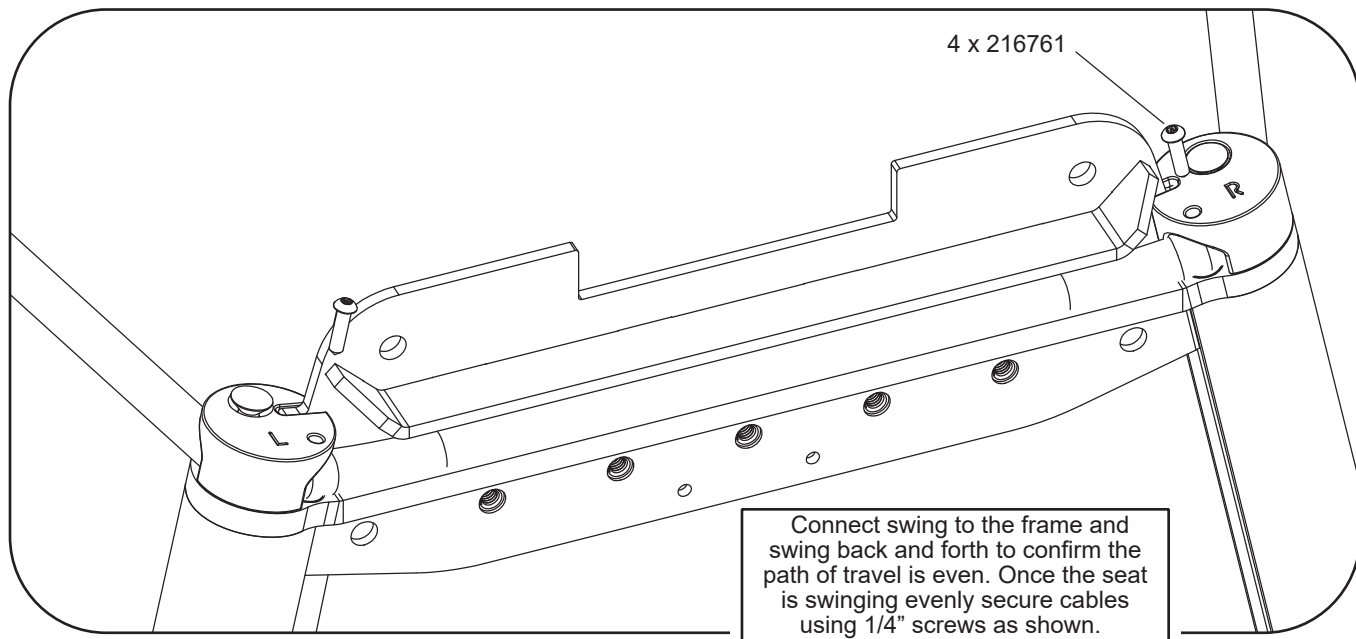


Swings **352215/352216 Flexx™ Swing w/ Arch Frame**

Page 4

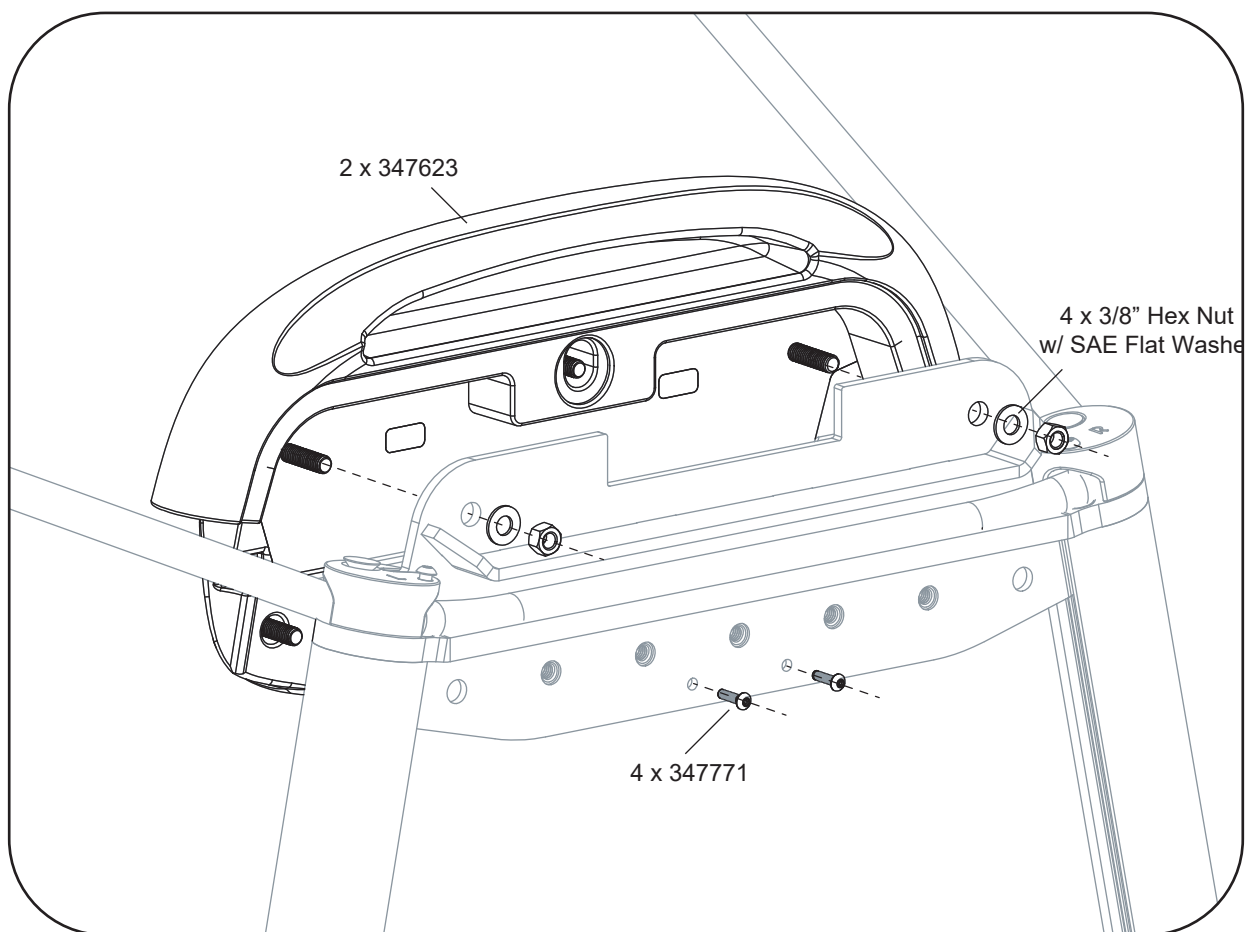


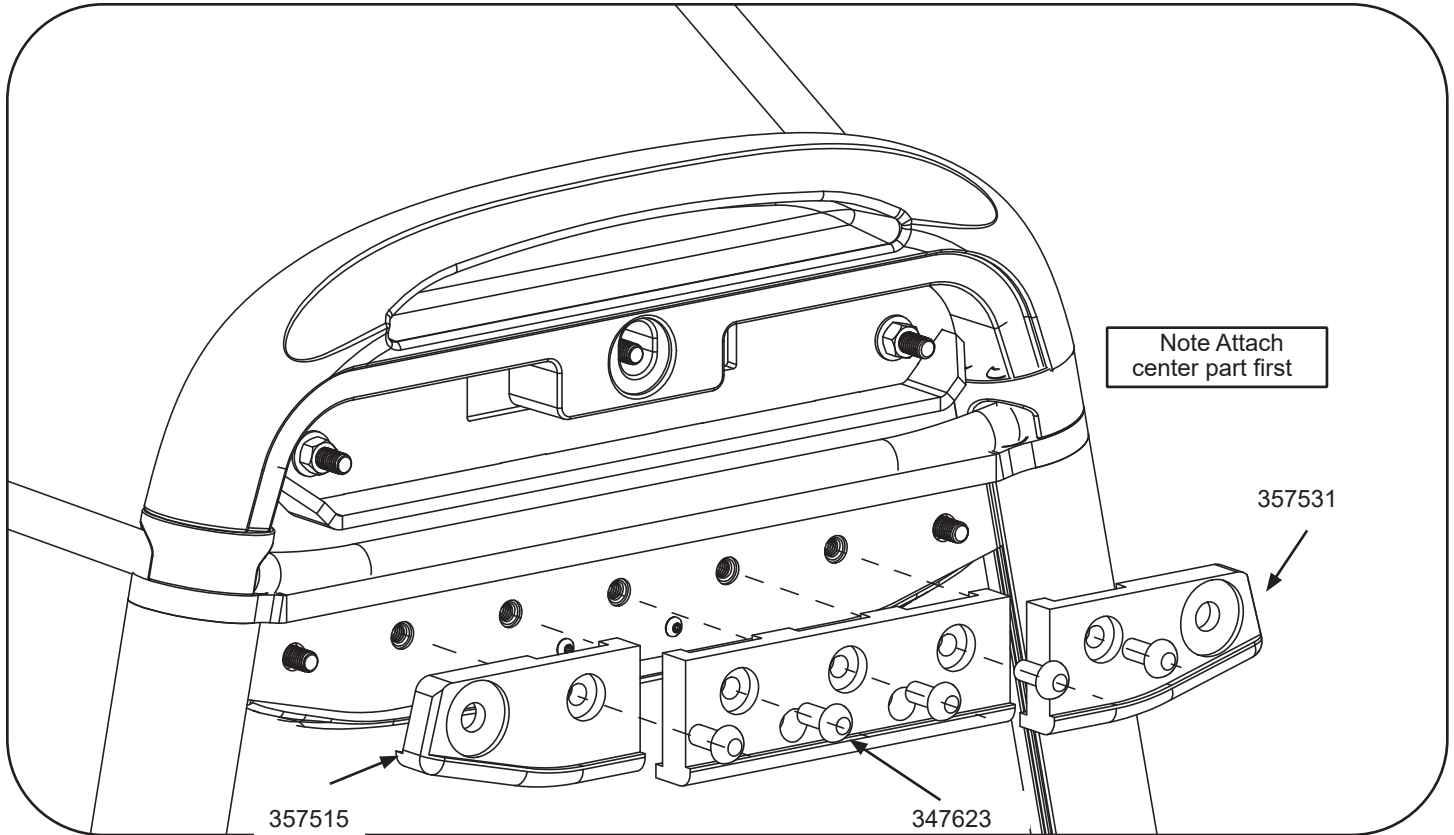




Swings 352215/352216 Flexx™ Swing w/ Arch Frame

Page 7

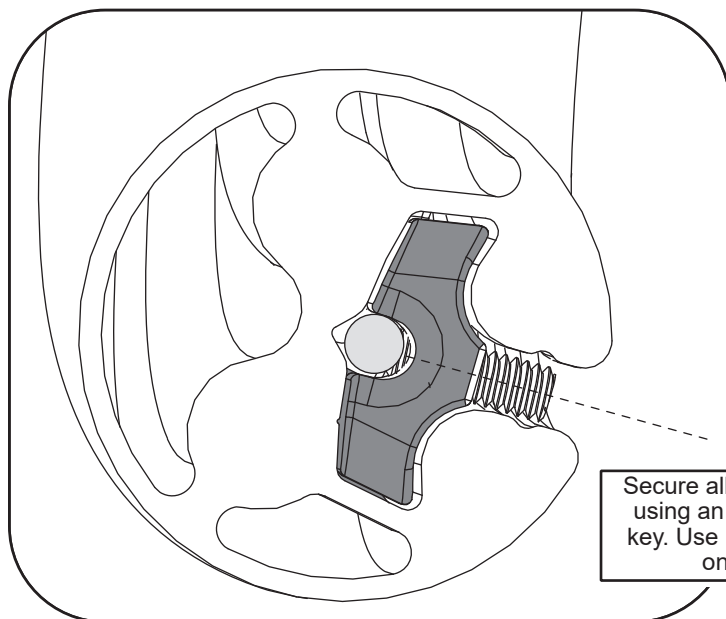
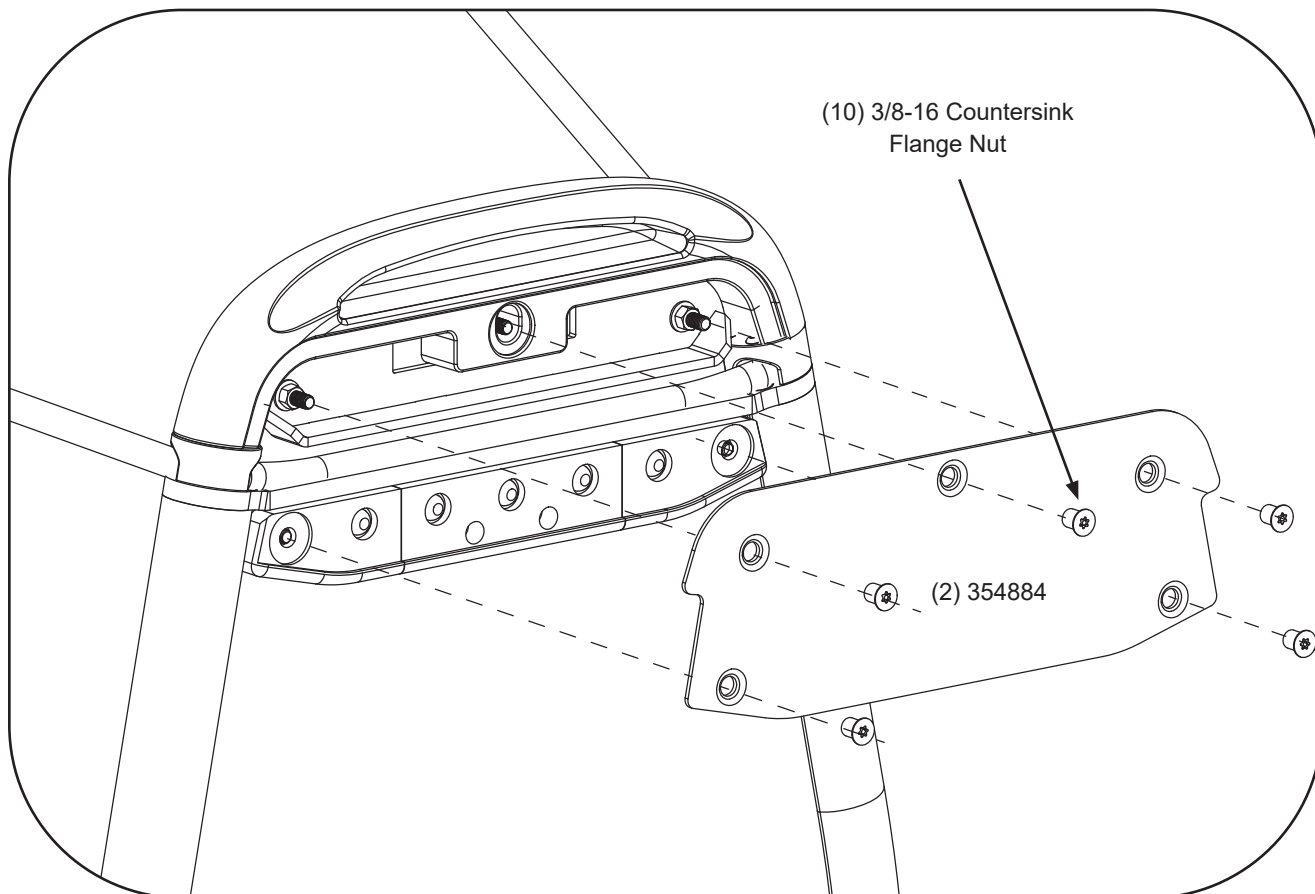




Cable threads between cut outs in permalene the seven end loops are secured as shown.

Swings **352215/352216 Flexx™ Swing w/ Arch Frame**

Page 9



Secure all set screws using an 1/8" allen key. Use hand tools only.

352215/352216 Flexx™ Swing w/ Arch Frame

Parts List

Item number	Product name	Single	+ Bay
105327	CLMP HALF 5i AL	4	0
126749	ARCH ASY PB 112-3/4 AL DB	2	1
216492	BEAM 5iOD X 140i AL	1	1
237686	CLMP HALF 1-3/4i WD SST PNT	2	2
237734	SWING HANGER ASM	2	2
339820	FLEXX SWING CROSS BRACE	2	2
339973	FLEXX SWING BUMPER	2	2
343212	FLEXX SWING FLEXX NET	1	1
343213	FLEXX SWING CABLE	2	2
347623	FLEXX SWING PERM BRACKET	2	2
354869	FLEXX SWING AL EXTRUSION PNT	2	2
354877	FLEXX SWING ROPE PUCK LEFT PNT	2	2
354881	FLEXX SWING ROPE PUCK RIGHT PNT	2	2
354884	FLEXX SWING COVER PLATE PNT	2	2
357515	FLEXX SWING PERM BRACKET L	2	2
357531	FLEXX SWING PERM BRACKET R	2	2
354934	HDW PKG FLEXX SWING	1	
148680	BIT 5/16 6-LOBE T40 TAMP	1	
127463	BIT HEX TPP T27 (TORX)	1	
100292	BHCS 6LP LTHD 3/8x1-1/4SST	4	
100290	BHCS 6LP LTHD 3/8x7/8iSST	4	
347771	BHCS TORX #10 X 3/4i SST	4	
216761	BHCS TORX #14 x 1 SST	4	
358894	FH 3/8-16 x 2 1/2i SST	4	
148164	FHCS 5/16x1-7/16 SST	4	
151421	FHCS 6LP 3/8x1-1/2iSST W/PATCH	4	
196321	LINK 5/16 X 1 X 2 1/2 SST	4	
100321	NUT HEX PATCH 3/8-16 SST	4	
100365	WASHER FLAT SAE 3/8i SST	8	
354874	CSINK FLG NUT 6LP 3/8-16 SST	10	
100196	BHCS 6LP 3/8x7/8i SST	10	
343215	1/4-20 SST OVAL TIP SET SCREW	34	
343214	FLEXX SWING NET CASTING	34	
238080	Hdw Pkg 5i Swing Beam f/Friendship Swing Seat	1	
100198	BHCS 6LP 3/8x1-1/8i SST	4	
100330	NUT HEX NYLOK 7/16-14 SST	8	
100365	WASHER FLAT SAE 3/8i SST	4	
100610	RIVET 1/4X5/8i Drive AS	4	
100611	RIVET 1/4X3/8i DRV AS	2	
115176	LABEL HD SRF WARNING ASTM	1	
136931	NUT HEX NYLOCK 3/8-16 SST	4	
156846	LABEL PLAY SAFE 2-12 YRS	1	
182212	LABEL ENTANGLEMENT WARNING	1	
182213	LABEL HOT SURFACE WARNING	1	
234397	BHCS 6LP LTHD 7/16x1.688i	8	
234937	Washer FI D-Cut 7/16i SST	16	

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

Specifications

Bumper:	Molded from U.V. stabilized black EPDM rubber.
Clamps:	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).
Hanger Assembly:	Machined from 303 stainless steel, with oil impregnated bronze bearings.

Swing Beam: Weldment comprised of tee clamps and 5" (127 mm) O.D. extruded 6005-T5 aluminum alloy tube with a .125" (3,17 mm) W. Finish: ProShield, color specified.

Arch Posts: See PlayBooster (PB) General Specifications.

LSI Flexx: 6.6 mm cable comprised of braided polyester strands reinforced with a 2.5 mm galvanized steel cable for strength and vandal resistance. The cable has a minimum breaking load of 771.6 lbs.

Flexx Tube: Extruded from 6005A-T61 aluminum. Finish: ProShield, color specified.

Installation Time: Approx. 12 man hours

Additional Bay 4 man hours

Concrete Req.: Approx. 7.5 cu. ft.

Additional Bay 3.75 cu. ft.

Area Req.: 24'-1" x 32' (7,34 m x 9,75 m)

Additional Bay 17'-11" x 32' (5,51 m x 9,75 m)

Weight: Single Bay 278 lb.

Additional Bay 218 lb.

Fall Height: 96" (2,43 m)



Installation Instructions

- 1) Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- 2) Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 7/16" BHCS w/Pin, 7/16" D-Cut Washers, and 7/16" Nylok nuts. Refer to the Tee Clamp Position 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.
- 3) Level beam and plumb arches and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- 3b) For an additional bay repeat step 2 and 3. See the additional bay link detail to connect the beams
- 4) Level beam at proper height and plumb posts. Pour concrete footings and let cure for 72 hours before proceeding.
- 5) Refer to specific swing seat steps for attaching seats.
- 6) Apply Play Safe and Warning Labels, as shown.
- 7) Install protective surfacing before users are allowed to play on the swing.

SUPER SEAT-2 SWING PACKAGE w/ ANTI WRAP SWING HANGER

ISSUED/REVISED: 10/26/17

**5028, 5029
SS5028, SS5029**

-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE



SPECIFICATIONS

SUPER SEAT: (a) Dimensions: 5" wide x 20" long x 1-1/16" thick. (b) Material: Seat outer covering shall be 58-62 durometer EPDM Rubber. Insert shall be 6005-T5 aluminum (ASTM B221). (c) Hangers: The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2-1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut. The top and bottom clevis shall be attached with 3/8" carriage bolt, 3/8" lockwasher, and 3/8" hex nut. (d) "S" Hooks: Shall be 3/8" diameter carbon steel wire grade per AISI C1022, service condition SC 2 (Moderate) Type II with brite zinc chromate conversion coating. (e) General: Front and back edges shall be 1/2" thick with molded air cells to provide impact cushioning. Seat exceeds ASTM F-1487-93 structural integrity requirements as stated in Section 12.3.1.1.

CHAIN: (a) Material: 7/32" diameter steel wire. (b) Dimensions (inside for each link): 3/8" wide, 1-3/8" long. (c) Finish: Chain shall be hot dipped galvanized. (d) Type of construction: 4/0 welded link coil chain.

NO. 4248 "S" HOOK PLIERS Approximate length 33". Pliers have the capacity of opening up to 13/32" and closing capacity up to 2".

STAINLESS STEEL CHAIN: (a) Material: 7/32" diameter steel wire.

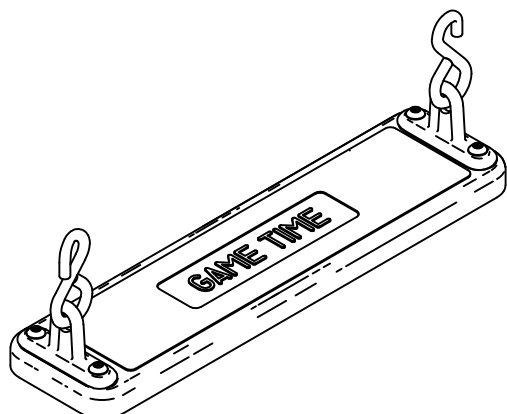
(b) Dimensions (inside for each link): 3/8" wide, 1-3/8" long. (d) Type of construction: 4/0 welded link coil chain.

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

NOTE: All weights are based on average comparisons of each part.

NOTE: After assembly of chains to seats, close "S" Hooks completely. It is recommended that "S" Hook pliers be used.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



Toprail Height	Toprail O.D.	Chain	Swing Pkg.
10'-0" [3.05 M]	2 3/8" [6.03 cm]	GALVANIZED	5028
10'-0" [3.05 M]	3 1/2" [8.89 cm]	GALVANIZED	5029
10'-0" [3.05 M]	2 3/8" [6.03 cm]	STAINLESS STEEL	SS5028
10'-0" [3.05 M]	3 1/2" [8.89 cm]	STAINLESS STEEL	SS5029

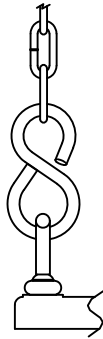


IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS

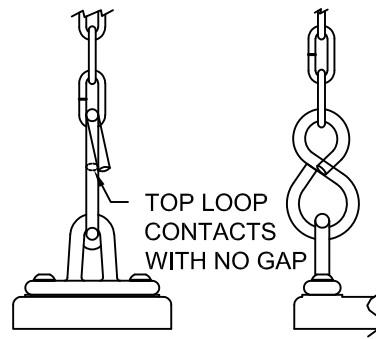
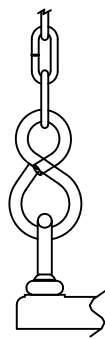


- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. *NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.* A fall on a hard surface can result in serious injury to the equipment user.
- ☐ *ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.*
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ *GAME TIME PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.*
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of *GAME TIME* equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use *GAME TIME* playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ *REPLACE ALL WORN "S" HOOKS. "S" HOOKS MUST BE COMPLETELY CLOSED. TO CLOSE "S" HOOKS PROPERLY, USE GAME TIME "S" HOOK PLIERS. FAILURE TO CLOSE "S" HOOKS PROPERLY CAN RESULT IN SERIOUS INJURY TO THE USER. NEVER REUSE "S" HOOKS.*
- ☐ Test for free movement of swing hanger and other moving attached parts.
- ☐ Check for worn chains and replace them.
- ☐ Replace worn or damaged belt seats.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat, both front and back. *NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.*

DETAILS OF "S" HOOK CLOSINGS



INCORRECT CLOSING



CORRECT CLOSING

THIS SPECIFICATION
BOOKLET SHOULD
BE KEPT IN THE
CUSTOMER'S FILES FOR
FUTURE REFERENCE.

WARNING

"S" HOOK'S LOOP MUST BE CLOSED
PER THESE INSTRUCTIONS. FAILURE
TO CLOSE "S" HOOK LOOP PROPERLY
CAN RESULT IN SERIOUS INJURY TO THE USER.
DO NOT REUSE "S" HOOKS AFTER OPENING
LOOPS. REPLACE WORN "S" HOOKS.

PARTS LIST

DESCRIPTION	NO. REQ'D.				PART NUMBER
	5028	5029			
Swing Seat Ass'y	1	1			999
Swing Hanger (2 3/8" O.D.)	2	0			8105
Swing Hanger (3 1/2" O.D.)	0	2			8106
Chain (7'-11" Lg.)	2	2			151124
	SS5028	SS5029			
Swing Seat Ass'y	1	1			999
Swing Hanger (2 3/8" O.D.)	2	0			1461
Swing Hanger (3 1/2" O.D.)	0	2			1462
Stainless Steel Chain (7'-11" Lg.)	2	2			177988

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

***See 999 Parts List for Swing Seat Assembly Components.*

NOTE: "CC" Prefix Before Package Number Indicates Seat with Coated Chain



Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children.
Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed,
Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

999 Swing Seat Components

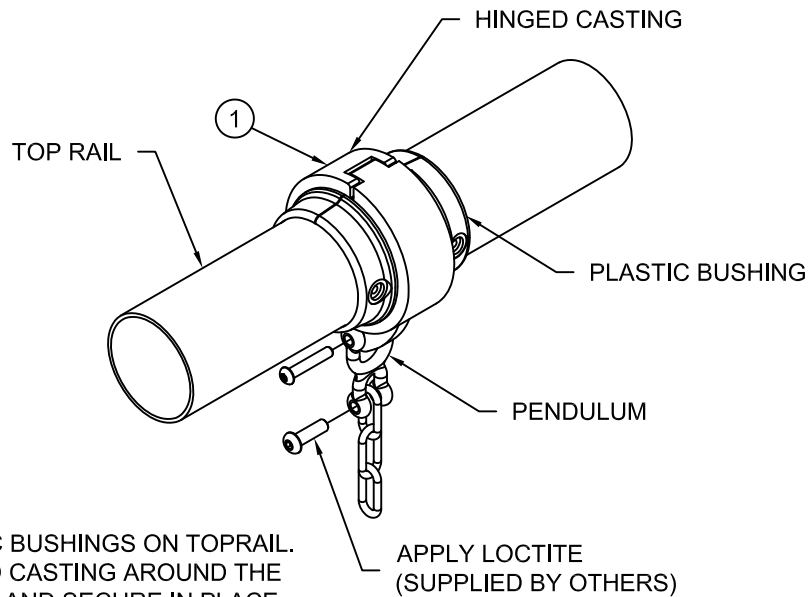
DESCRIPTION	NO. REQD	PART NO.
	1047	
Molded Swing Seat	1	152675
"S" Hook\ Casting Ass'y	2	153134
3/8-16 Flange Lock Nut	4	804365
3/8 x 1 1/4" Torx B.H.C.S	4	816050

8105 ANTI-WRAP SWING HANGER

ISSUED/REVISED: 6/3/09

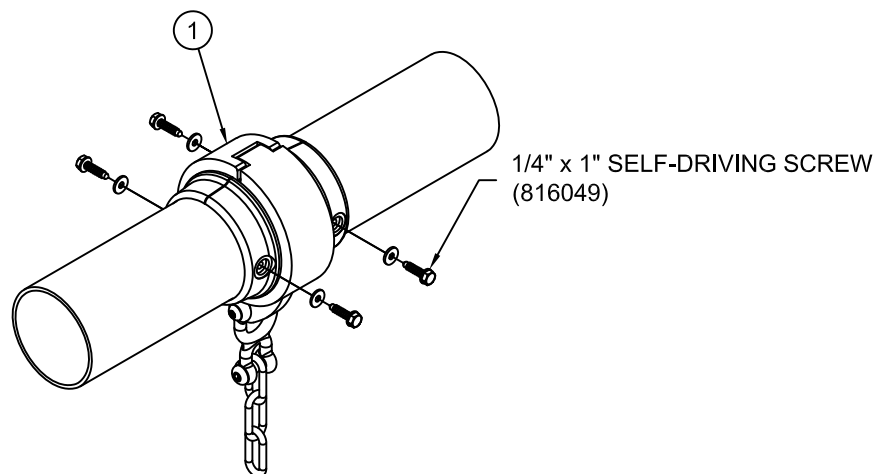
 = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

2 3/8" TOP RAIL	8105
3 1/2" TOP RAIL	8106



STEP 1

1. PLACE THE PLASTIC BUSHINGS ON TOPRAIL.
2. CLAMP THE HINGED CASTING AROUND THE PLASTIC BUSHINGS AND SECURE IN PLACE WITH PENDULUM AND BUTTON HEAD SCREW.



STEP 2

1. POSITION THE ENTIRE SWING HANGER ON TOP RAIL AND USE A CENTER-PUNCH TO MARK THE DRILL LOCATIONS.
2. DRILL 4 PILOT HOLES WITH A 5/32" BIT.
3. ATTACH WITH (4) 1/4" x 1" SELF DRIVING SCREWS.

SPECIFICATIONS

MATERIAL: All swing hangers shall be galvanized steel and molded nylon.

HARDWARE: All carriage bolts, lockwashers, hex nuts, and shoulder bolts shall be zinc plated with a clear chromate coating.

FINISH: All metal parts shall be galvanized.

CONSTRUCTION: The swing hanger shall consist of a hinged casting and swing pendulum that fits around a two piece nylon bushing. The hinged casting shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the hinged casting with 3/8" x 1 3/4" button head bolt. The two piece nylon bushing shall be attached to the top rail with 1/4" x 1" self driving screws.

SPECIFICATIONS: PLAYCORE has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

PARTS LIST

REF. NO.	DESCRIPTION	NO. REQ'D		PART
		8105	8106	NUMBER
1	2 3/8" Anti-wrap Swing Hanger	1	0	178759
1	3 1/2" Anti-wrap Swing Hanger	0	1	178760
	1/4" x 1" Self-Driving Screw w/Washer	4	4	816049*

Unless Otherwise Specified, All Units of Measure are Each

** Included with Swing Hanger*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.



A PLAYCORE Company

1-800-235-2440

5128

EXPRESSION SWING

ISSUED/REVISED: 1/19/2023

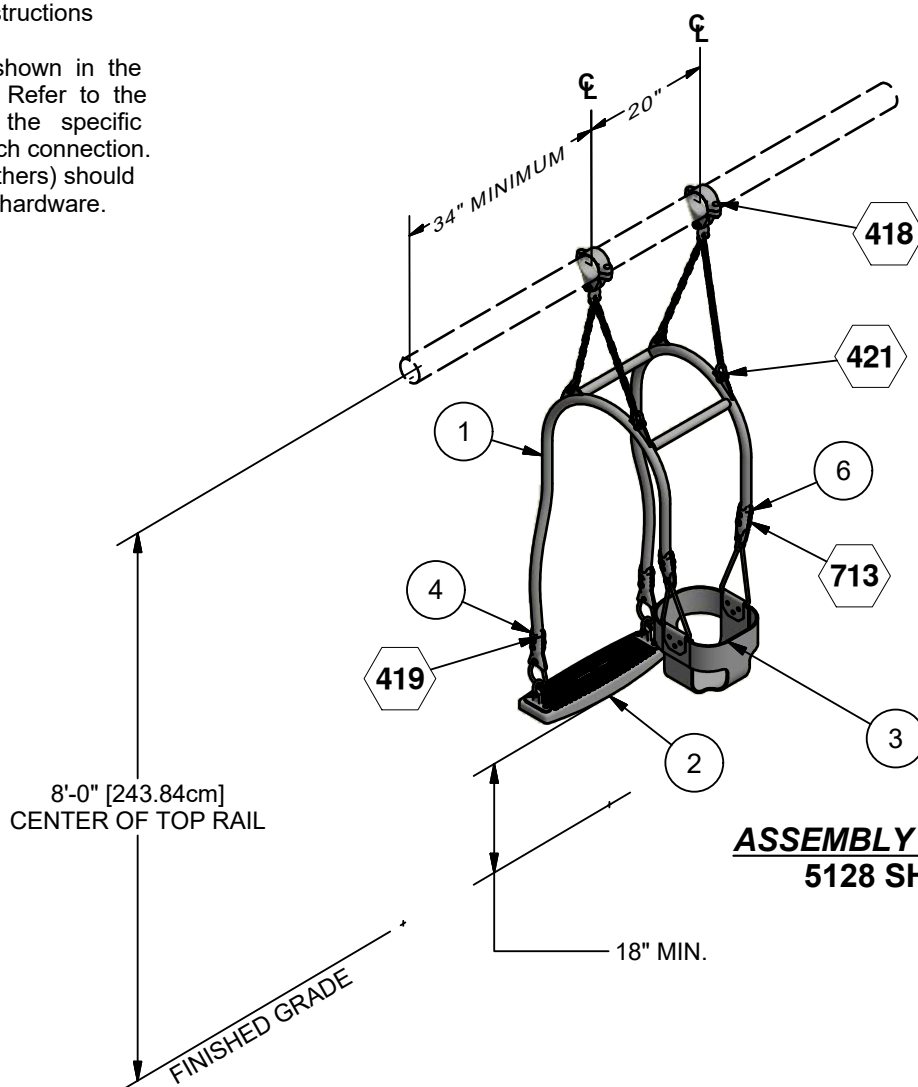
- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE

3 1/2" O.D. x 8' TOPRAIL 5128

5" O.D. x 8' TOPRAIL 5145

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all threaded hardware.



Parts List				
REF	DESCRIPTION	5128	5145	PART NUMBER
1	SWING ASS'Y PACKAGE	1	1	214339
2	SEAT ASS'Y	1	1	208958**
3	ENCLOSED TOT SEAT	1	1	153746**
4	SWING CASTING	4	4	209237**
5	EXPRESSION SWING CAUTION LABEL	1	1	211721**
6	SWING CASTING	4	4	214350**
	HARDWARE COMPLETE	1	1	214344***
	3/8" x 1" P.B.H.C.S. w/PATCH	2	2	812050*
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	8	8	812053*
	3/8" FLAT WASHER	2	2	817410*
	3/8" BARREL NUT	10	10	804804*
	3/8" LOCK WASHER	10	10	817334*
	3/8" O.D. STAINLESS STEEL WIRE	2	2	208743*
	S.S. CHAIN 18 5/16"	4	4	214346*
	SWING HANGER (3-1/2" O.D.)	2	0	1462***
	SWING HANGER	0	2	1487***
	3/8" PLASTIC SPACER	12	12	817613*
	STAINLESS STEEL D SHACKLE	8	8	161853*
	3/8" PIN-IN TORX BIT, T45	2	2	812655*
	SLEEVE BUSHING	2	2	818382*

* Included in Hardware

** Included in Swing Ass'y Package 214339

*** Included in Swing Hanger Packing Reference 209986 or 210179

Unless Otherwise Specified, All Units of Measure are Each

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

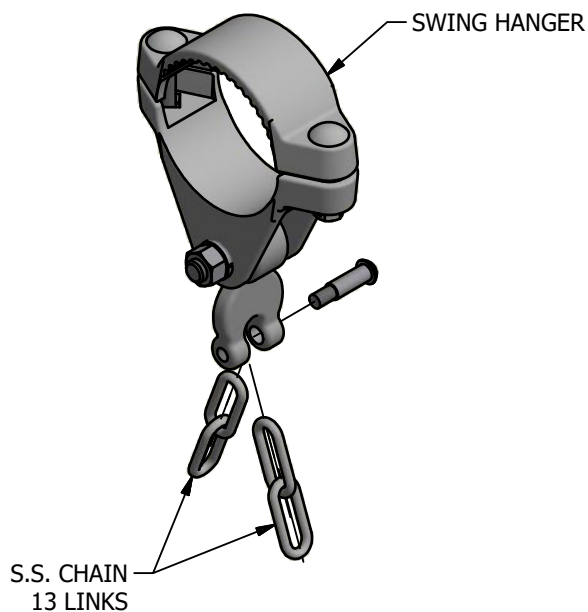
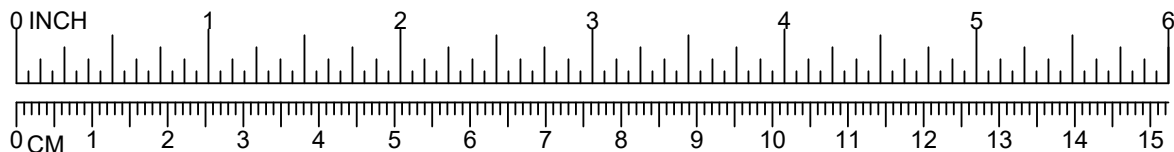
DETAILS -for- 5128 & 5145

IMPORTANT

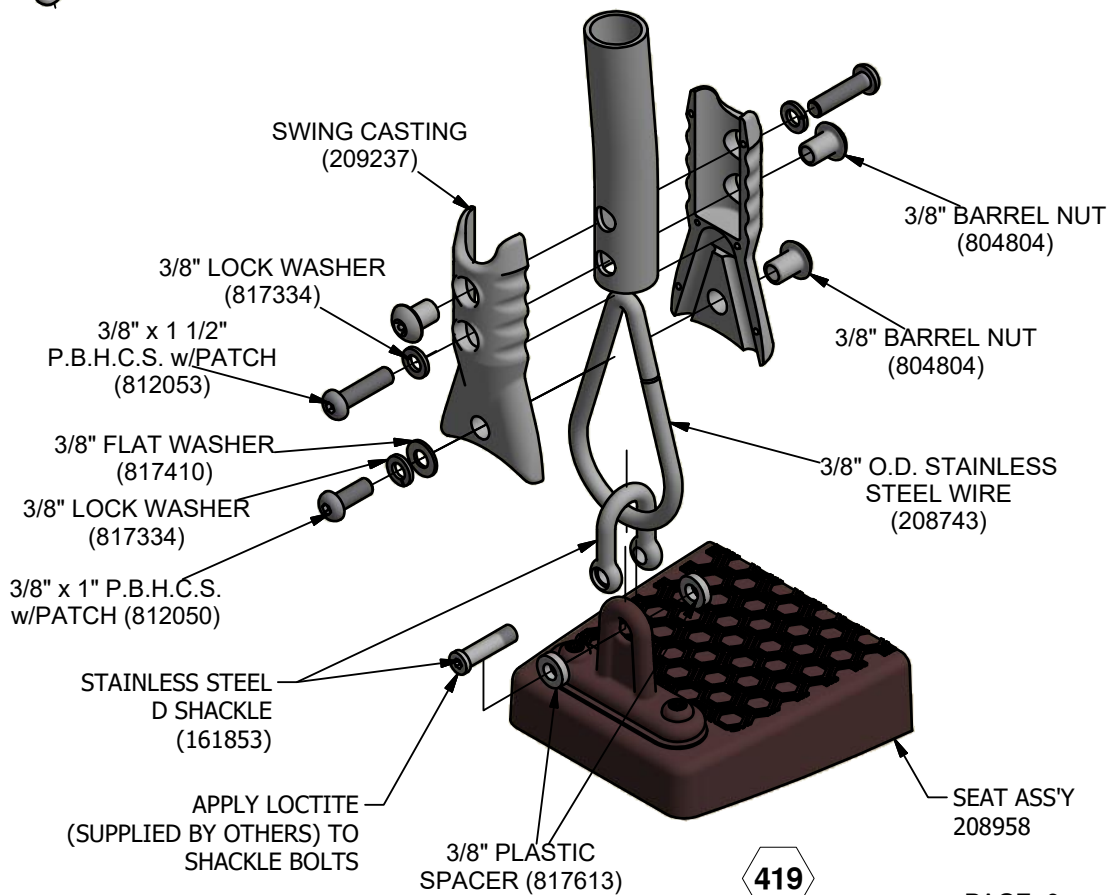
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



418



419

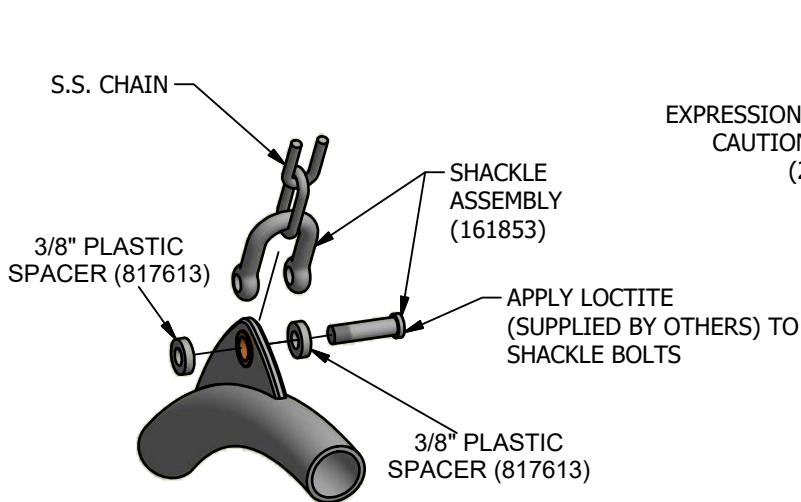
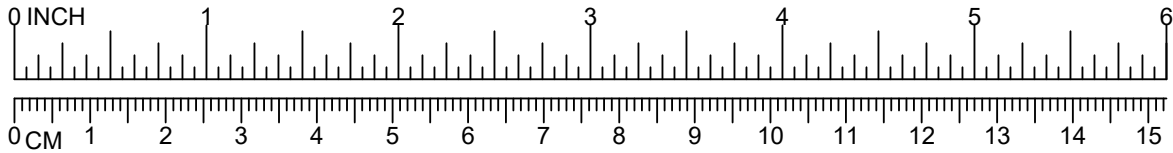
DETAILS -for- 5128 & 5145

IMPORTANT

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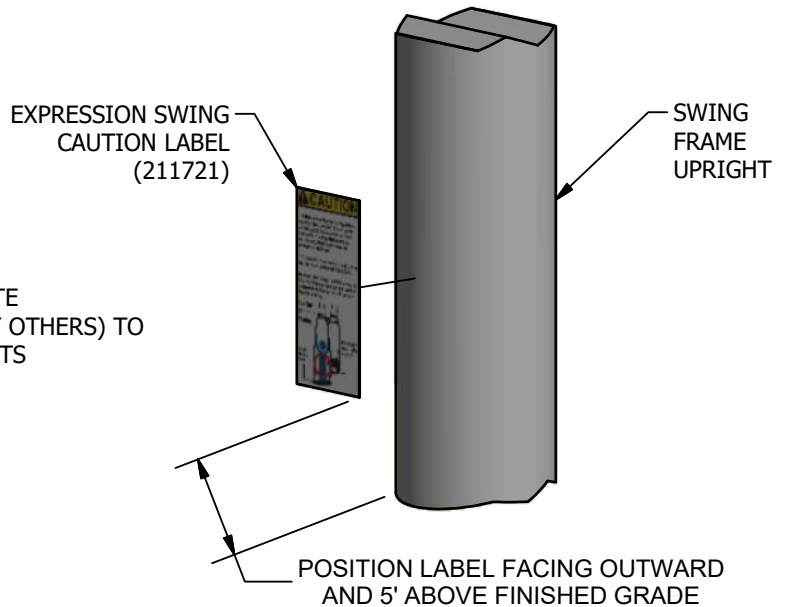
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



421

NOTE:
SPACERS LOCATED
BETWEEN TAB AND
INTERIOR OF SHACKLE.



458

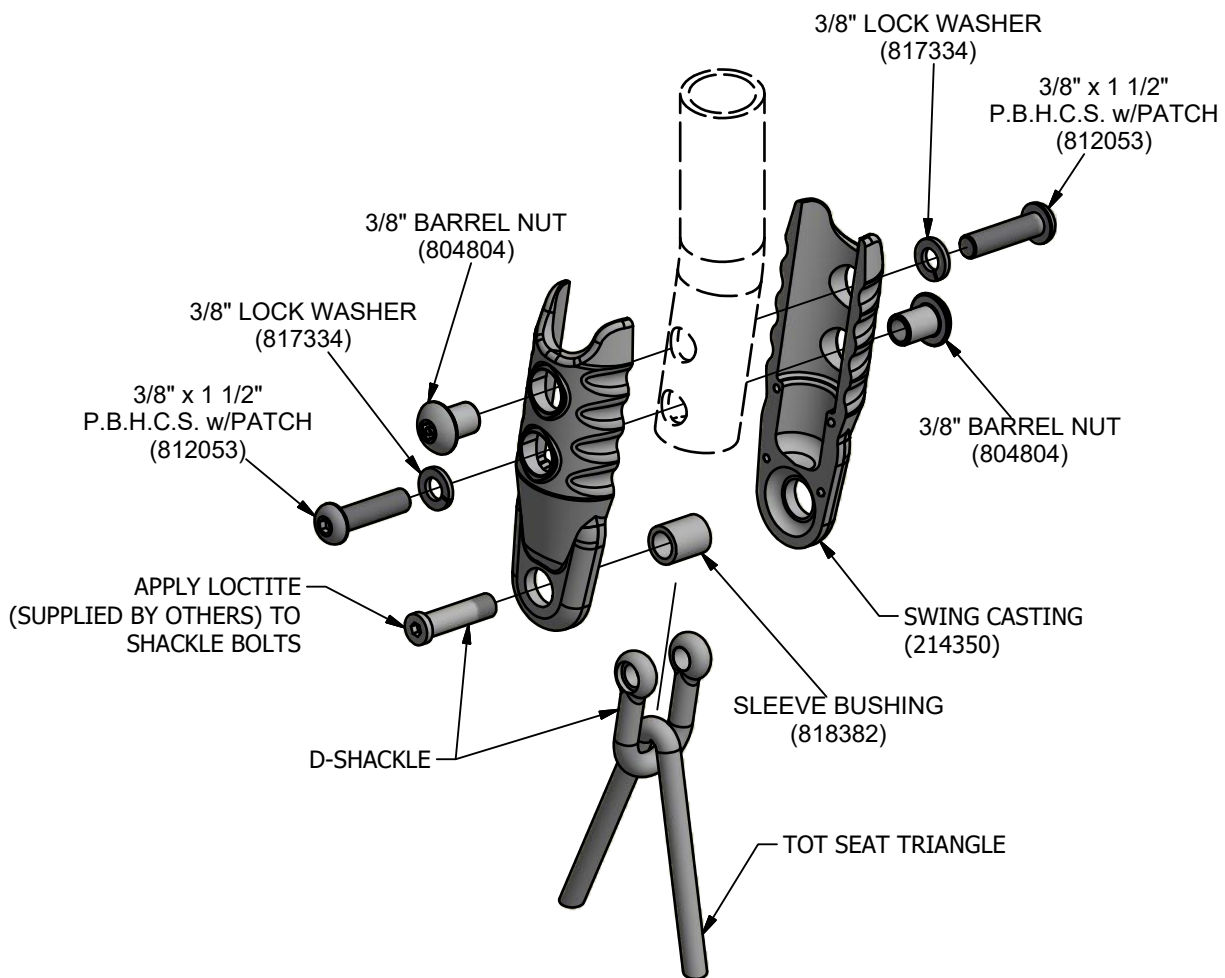
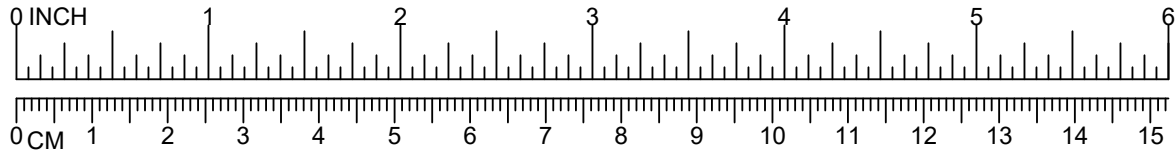
DETAILS -for- 5128 & 5145

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



713



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 1/19/2023

5165

EXPRESSION SWING w/ ADAPTIVE SEAT

3 1/2" O.D. x 8' TOPRAIL
5" O.D. x 8' TOPRAIL

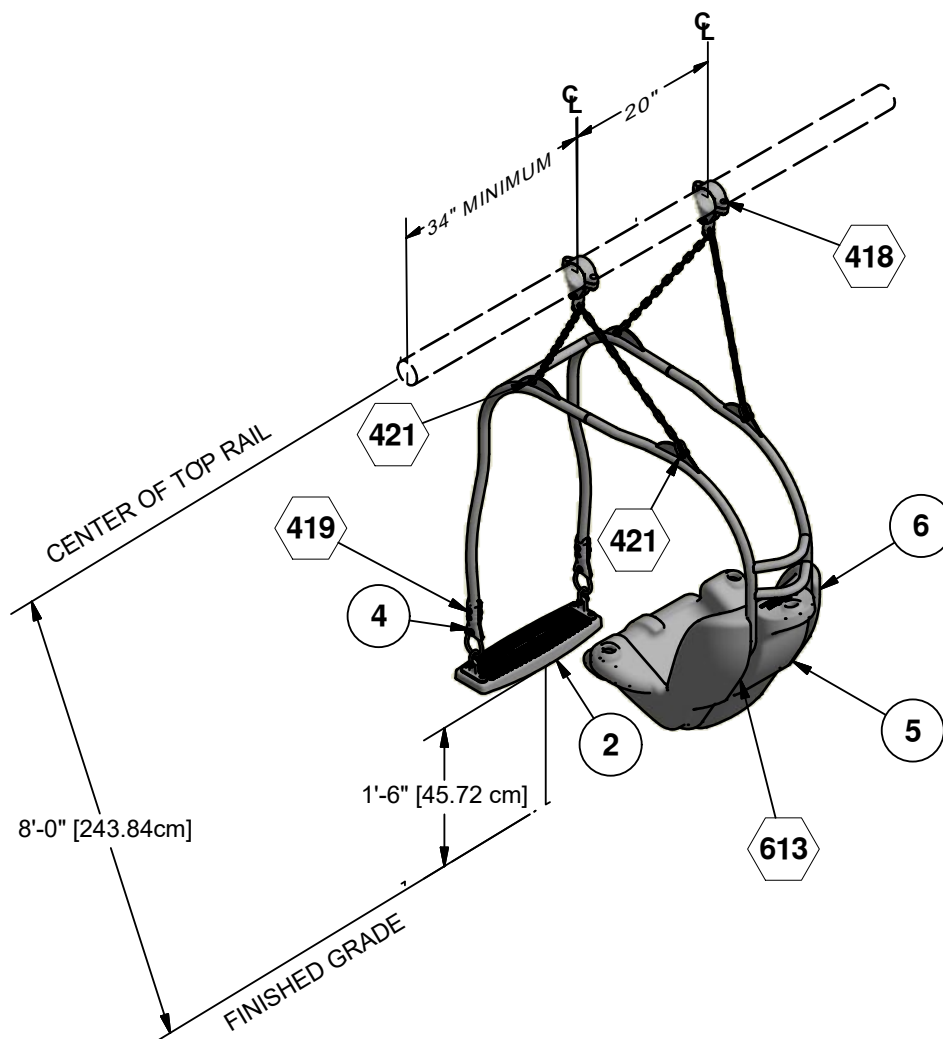
5165
5166

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE



INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. NOTE: Drill out 1/4" holes with 3/8" drill bit on the adaptive seat.



ASSEMBLY DRAWING
5165 SHOWN

Parts List				
REF	DESCRIPTION	5165	5166	PART NUMBER
1	EXPRESSION SWING w/ ADAPTIVE SEAT PACKAGE	1	1	213059
2	SEAT ASS'Y	1	1	208958**
3	ADAPTIVE WELD ASS'Y	1	1	212912**
4	SWING CASTING	4	4	209237**
5	(PURCHASED) EXPRESSION SWING w/ ADAPTIVE SEAT CAUTION LABEL	1	1	213060**
	ADAPTIVE SEAT PACKAGE 3 1/2" TOP RAIL	1		213062
6	ADAPTIVE SEAT	1	1	166082***
	SWING HANGER (3-1/2" O.D.)	2	0	1462***
	ADAPTIVE SEAT PACKAGE 5" TOP RAIL	0	1	213063
6	ADAPTIVE SEAT	0	1	166082****
	SWING HANGER (5" O.D.)	0	2	1487****
	HARDWARE COMPLETE	1	1	213061**
	3/8" x 1" P.B.H.C.S. w/PATCH	2	2	812050*
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	4	4	812053*
	3/8" x 2 1/2" P.B.H.C.S. w/PATCH	2	2	812057*
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	2	812058*
	3/8" FLAT WASHER	2	2	817410*
	3/8" BARREL NUT	10	10	804804*
	3/8" LOCK WASHER	2	2	817334*
	3/8" O.D. STAINLESS STEEL WIRE	2	2	208743*
	3/8" PLASTIC SPACER	12	12	817613*
	3/8" PIN-IN TORX BIT, T45	2	2	812655*
	1/2" LOCKWASHER	4	4	817342*
	D SHACKLE w/NO-SNAG PIN	6	6	161853*
	S.S. CHAIN 17 LINKS	4	4	213058*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

***Included in Expression Swing W/ Adaptive Seat Package 213059*

****Included in Adaptive Seat Package 3 1/2" Top Rail 213062*

*****Included in Adaptive Seat Package 5" Top Rail 213063*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

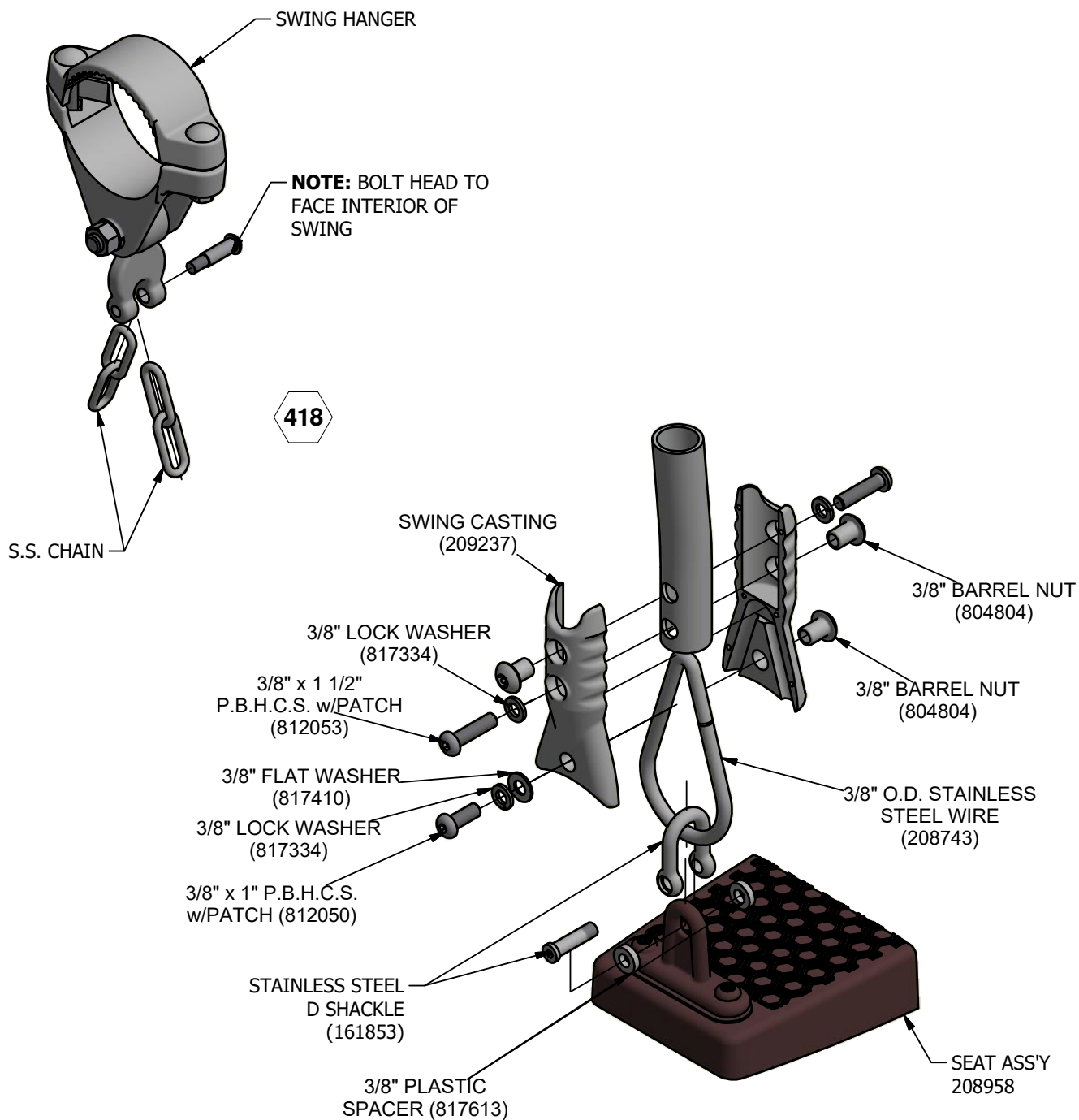
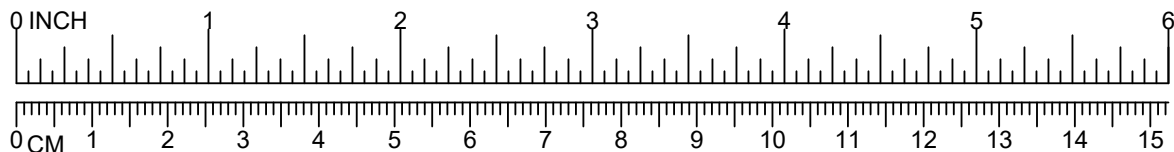
DETAILS -for- 5165 & 5166

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



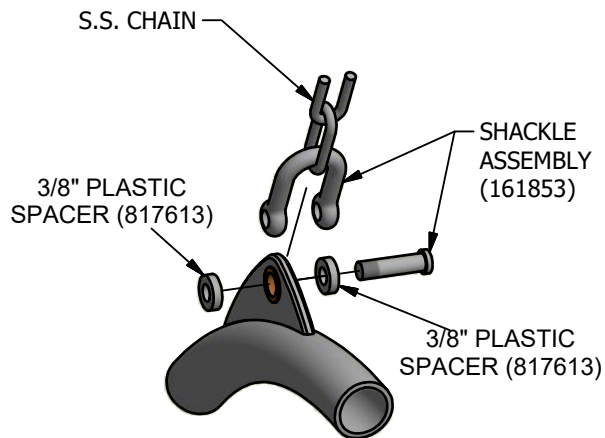
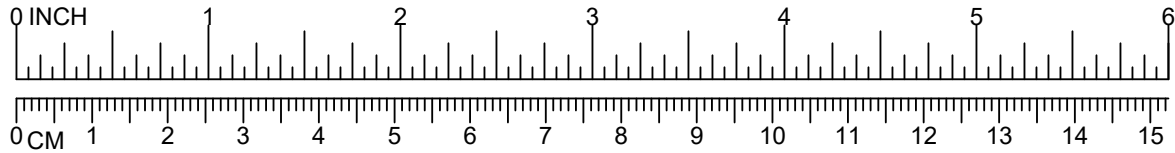
DETAILS -for- 5165 & 5166

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



NOTE:
SPACERS LOCATED
BETWEEN TAB AND
INTERIOR OF SHACKLE.

421

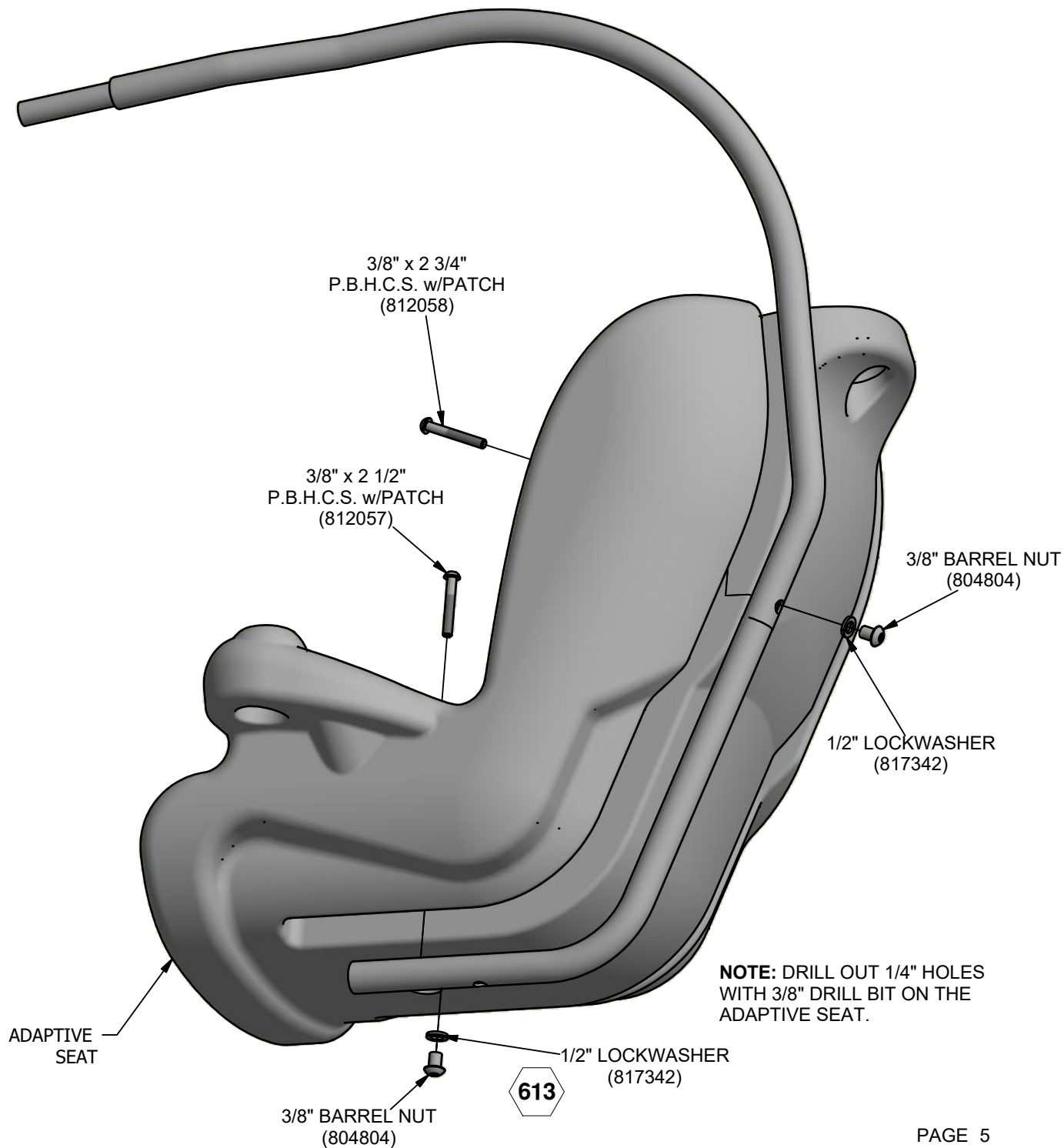
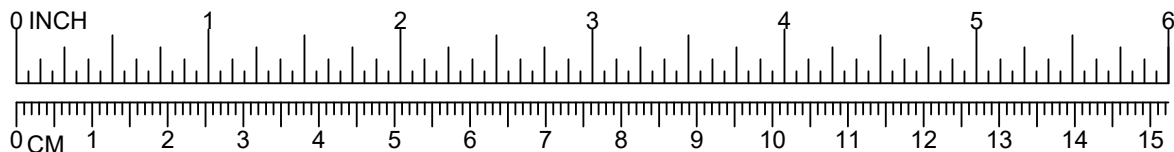
DETAILS -for- 5165 & 5166

IMPORTANT

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NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



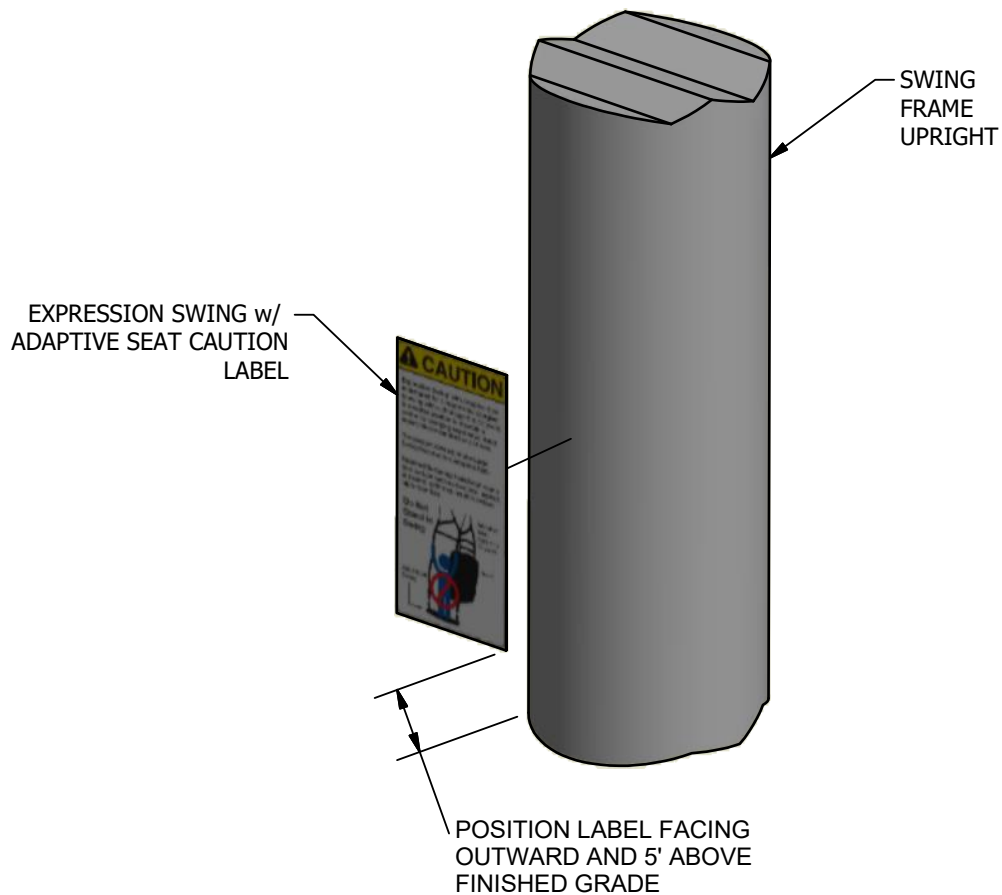
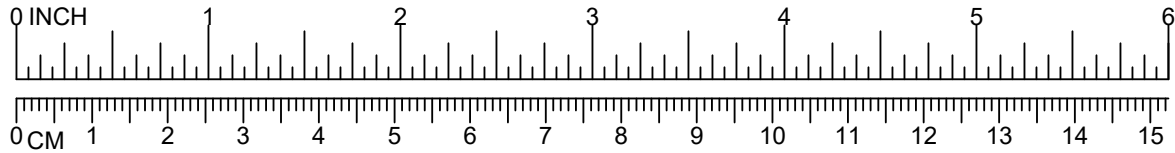
DETAILS -for- 5165 & 5166

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.



NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



614

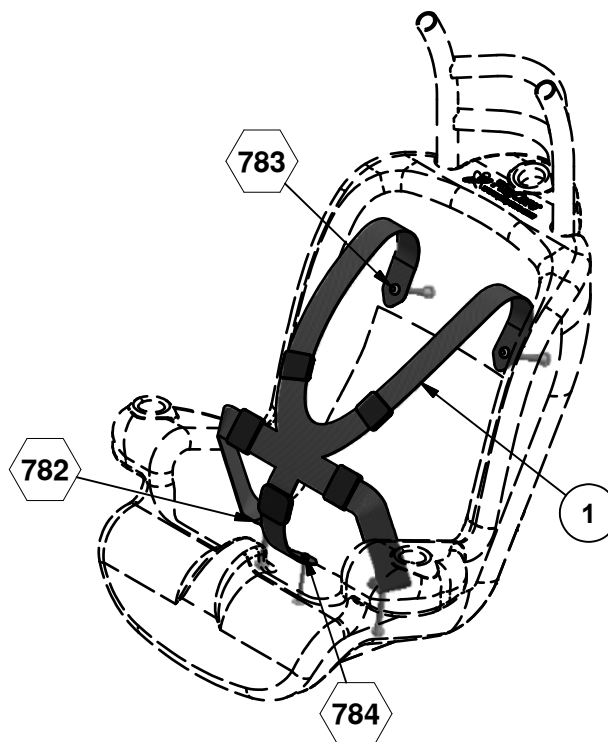
ADAPTIVE SWING W/ RUNG SAFETY BELT KIT

ISSUED/REVISED: 9/25/2018

-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all the instructions during assembly.
2. Assemble parts as shown in the *Assembly Drawing*. Refer to the assembly details for the specific hardware required in each connection.
3. NOTE: Drill out 1/4" holes with 3/8" drill bit on the adaptive seat.



ASSEMBLY DRAWING

Parts List			
REF	DESCRIPTION	QTY	PART NUMBER
1	ADAPTIVE SWING SAFETY BELT	1	X18249
	HARDWARE COMPLETE	1	215684
	1/4" X 2-3/4" B.H.C.S.	1	811021*
	1/4" LOCK WASHER	1	817326*
	1/4" TEE-NUT	1	804559*
	3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	812058*
	3/8" x 3" P.B.H.C.S. w/PATCH	2	812059*
	3/8" BARREL NUT	4	804804*
	1/2" LOCKWASHER	4	817342*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

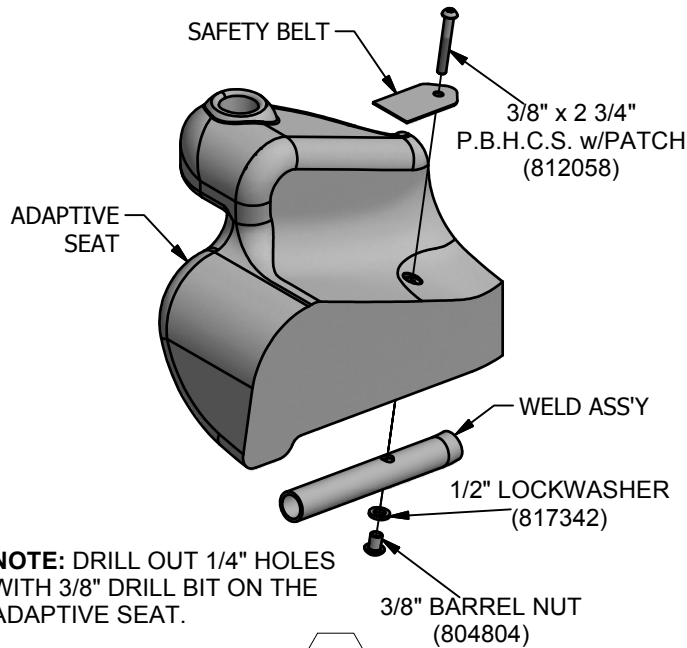
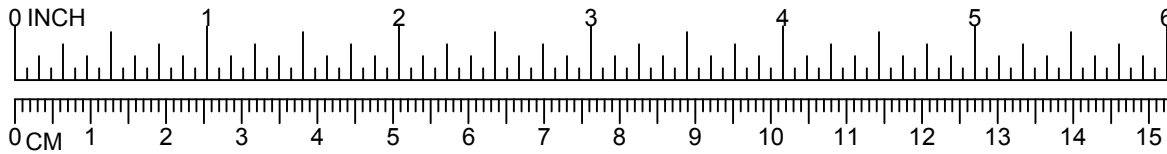
DETAILS -for- 5173

IMPORTANT

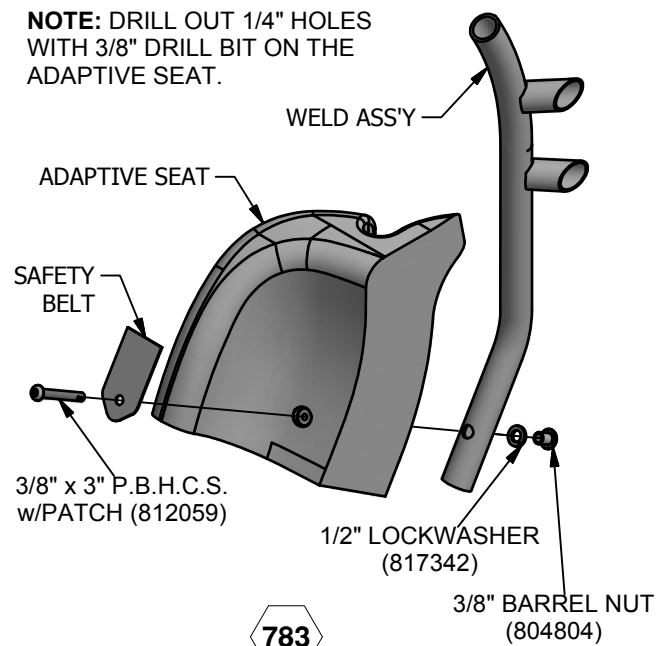
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

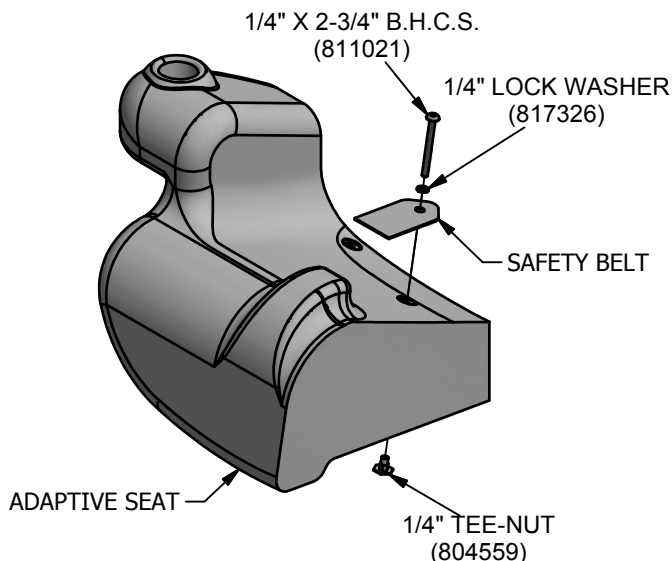
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



782



783



784



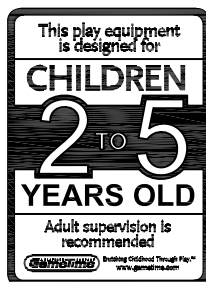
Enriching Childhood Through Play™

1-800-235-2440

8691 SEAT

ISSUED/REVISED: 10/30/17

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE

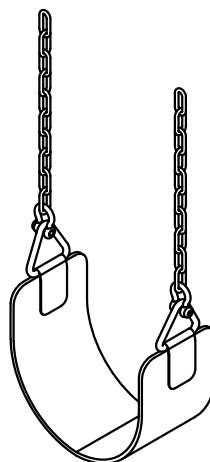


8695, 8696, 8914, SS8914, SS8695,
SS8696

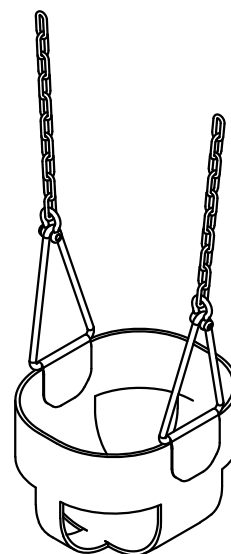


8908, 8909, 8910, 8911, 8918, 8915,
SS8918, SS8908, SS8910, SS8909,
SS8911

BELT SEAT 8691
FULLY ENCLOSED SEAT 8693
8695, 8696, 8908, 8909, 8910, 8911,
8914, 8918, SS8914, SS8695,
SS8696, SS8918, SS8908, SS8910,
SS8909, SS8911
SEAT PACKAGES



8691



8693

SPECIFICATIONS

*Rights are reserved to discontinue or change specifications without notice.

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

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

***NOTE:** Weights are based on average comparisons of each part.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ All protruding nuts and bolts should be covered; sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.

PARTS LIST -for- SEATS

DESCRIPTION	NO. REQD		PART NO.
	8693	8691	
<i>Belt Seat</i>	0	1	153738
<i>Enclosed Tot Seat</i>	1	0	153746
<i>Hardware Complete</i>	1	1	167359
<i>Swing Clevis</i>	2	2	166683*
<i>1/2" Pin-In Hex Bit (5/16")</i>	1	1	812644*

PARTS LIST -for- SEAT PACKAGES

DESCRIPTION	NO. REQUIRED			PART NO.
	8914	8695	8696	
<i>Enclosed Tot Seat</i>	1	1	1	8693
<i>Swing Hanger (2-3/8" O.D.)</i>	0	2	0	1461
<i>Swing Hanger (3-1/2" O.D.)</i>	0	0	2	1462
<i>Swing Hanger (5" O.D.)</i>	2	0	0	1487
<i>Chain</i>	2	2	2	131904

Unless otherwise specified, all units of measure are each.

***Included in Hardware Complete.**

NOTE: "CC" prefix before package number indicates seat with coated chain.

Note: Loctite (supplied by others) should be used on all threaded hardware.

PARTS LIST -for- SEAT PACKAGES

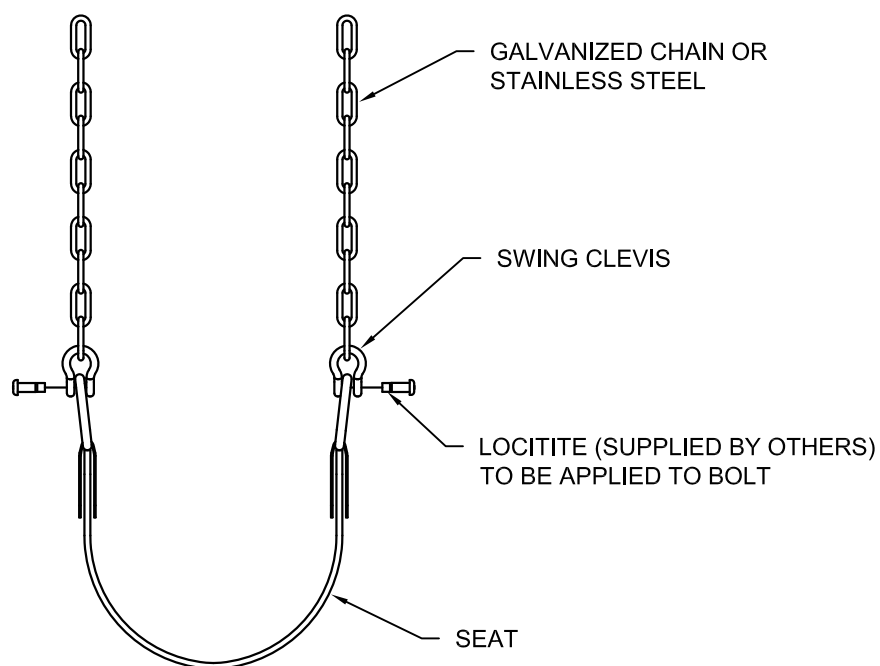
DESCRIPTION	NO. REQUIRED								PART NO.
	8691	8918	8908	8910	8909	8911			
Belt Seat	1	1	1	1	1	1			8691
Swing Hanger (2-3/8" O.D.)	0	0	2	0	2	0			1461
Swing Hanger (3-1/2" O.D.)	0	0	0	2	0	2			1462
Swing Hanger (5" O.D.)	0	2	0	0	0	0			1487
Chain	0	2	0	0	0	0			103052
Chain	0	0	2	2	0	0			166892
Chain	0	0	0	0	2	2			153867
Swing Clevis	2	2	2	2	2	2			166683*
1/2" Pin-In Hex Bit (5/16")	1	1	1	1	1	1			812644*
	SS8914	SS8695	SS8696	SS8918	SS8908	SS8910	SS8909	SS8911	
Enclosed Tot Seat	1	1	1	0	0	0	0	0	8693
Belt Seat	0	0	0	1	1	1	1	1	8691
Swing Hanger (2-3/8" O.D.)	0	2	0	0	2	0	2	0	1461*
Swing Hanger (3-1/2" O.D.)	0	0	2	0	0	2	0	2	1462*
Swing Hanger (5" O.D.)	2	0	0	2	0	0	0	0	1487*
Stainless Steel Chain	0	0	0	2	0	0	0	0	177993*
Stainless Steel Chain	2	2	2	0	0	0	0	0	177994*
Stainless Steel Chain	0	0	0	0	2	2	0	0	177991*
Stainless Steel Chain	0	0	0	0	0	0	2	2	177990*

Unless otherwise specified, all units of measure are each.

***Included in Hardware Complete.**

NOTE: "CC" prefix before package number indicates seat with coated chain.



Note: Loctite (supplied by others) should be used on all threaded hardware.



SEAT ASSEMBLY
(WITH GALVANIZED CHAIN
OR STAINLESS STEEL)

1461 SWING HANGER

ISSUED/REVISED: 3/15/16

 = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

SPECIFICATIONS

MATERIAL: All swing hanger castings shall be cast of malleable iron.

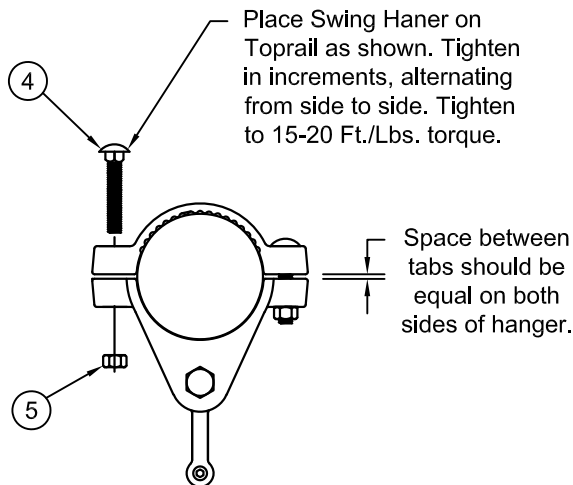
HARDWARE: All Carriage bolts, lockwashers, hex nuts, and shoulder bolts shall be zinc plated with a clear chromate coating.

FINISH: All top and bottom clevis parts shall be galvanized or powder coated. The swing pendulum shall be galvanized only.

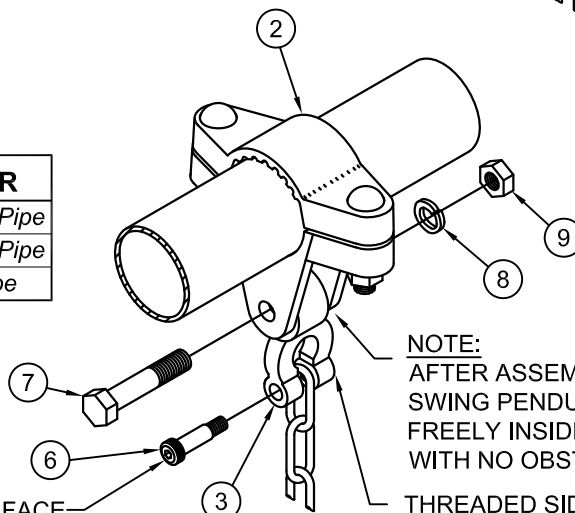
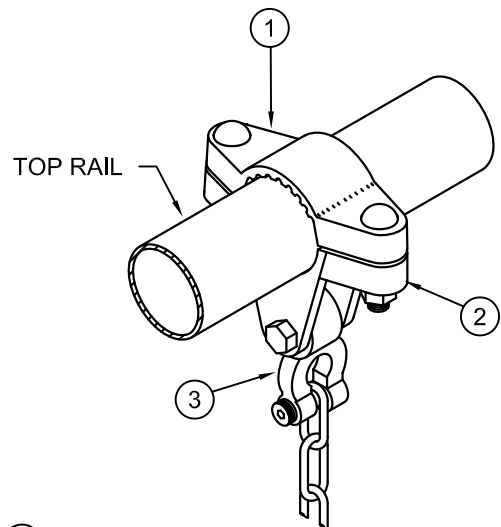
CONSTRUCTION: The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2-1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut. The top and bottom clevis shall be attached with 3/8" carriage bolt and 3/8" lock nut.

SPECIFICATIONS: GAMETIME has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

GALVANIZED 1461
 GALVANIZED 1462
 PAINTED 1463
 PAINTED 1485
 PAINTED 1486
 GALVANIZED 1487



Space between tabs should be equal on both sides of hanger.



NOTE: AFTER ASSEMBLY IS COMPLETE, SWING PENDULUM SHOULD PIVOT FREELY INSIDE OF BOTTOM CLEVIS WITH NO OBSTRUCTION.

THREADED SIDE OF PENDULUM

PAINTED	GALVANIZED	PIPE DIAMETER
1485	1461	2-3/8" [6.03cm] O.D. Pipe
1486	1462	3-1/2" [8.89cm] O.D. Pipe
1463	1487	5" [12.70cm] O.D. Pipe



NOTE: BOLT HEAD TO FACE INTERIOR OF SWING

PARTS LIST

Ref. NO.	DESCRIPTION	NO. REQUIRED						PART NO.
		1461	1462	1463	1485	1486	1487	
1	Top Clevis	1	0	0	0	0	0	157000
1	Top Clevis	1	1	0	0	0	0	157002
1	Top Clevis	0	0	1	0	0	0	157382
1	Top Clevis	0	0	0	1	0	0	158223
1	Top Clevis	0	0	0	0	1	0	158221
1	Top Clevis	0	0	0	0	0	1	157005
2	Bottom Clevis	1	0	0	0	0	0	157011
2	Bottom Clevis	0	1	0	0	0	0	157012
2	Bottom Clevis	0	0	1	0	0	0	157383
2	Bottom Clevis	0	0	0	1	0	0	158233
2	Bottom Clevis	0	0	0	0	1	0	158230
2	Bottom Clevis	0	0	0	0	0	1	157013
3	Swing Pendulum	1	1	1	1	1	1	157010
4	3/8" x 2" Carriage Bolt	2	2	0	2	2	0	800256
4	3/8" x 1-3/4" Carriage Bolt	0	0	2	0	0	2	800290
5	3/8" Lock Nut	2	2	2	2	2	2	804353
6	3/8" x 1" Shoulder Bolt	1	1	1	1	1	1	811226
7	1/2" x 2-1/2" Hex Bolt	1	1	1	1	1	1	801200
8	1/2" Lockwasher	1	1	1	1	1	1	817342
9	1/2" Hex Nut	1	1	1	1	1	1	804055

Unless otherwise specified, all units of measure are each.

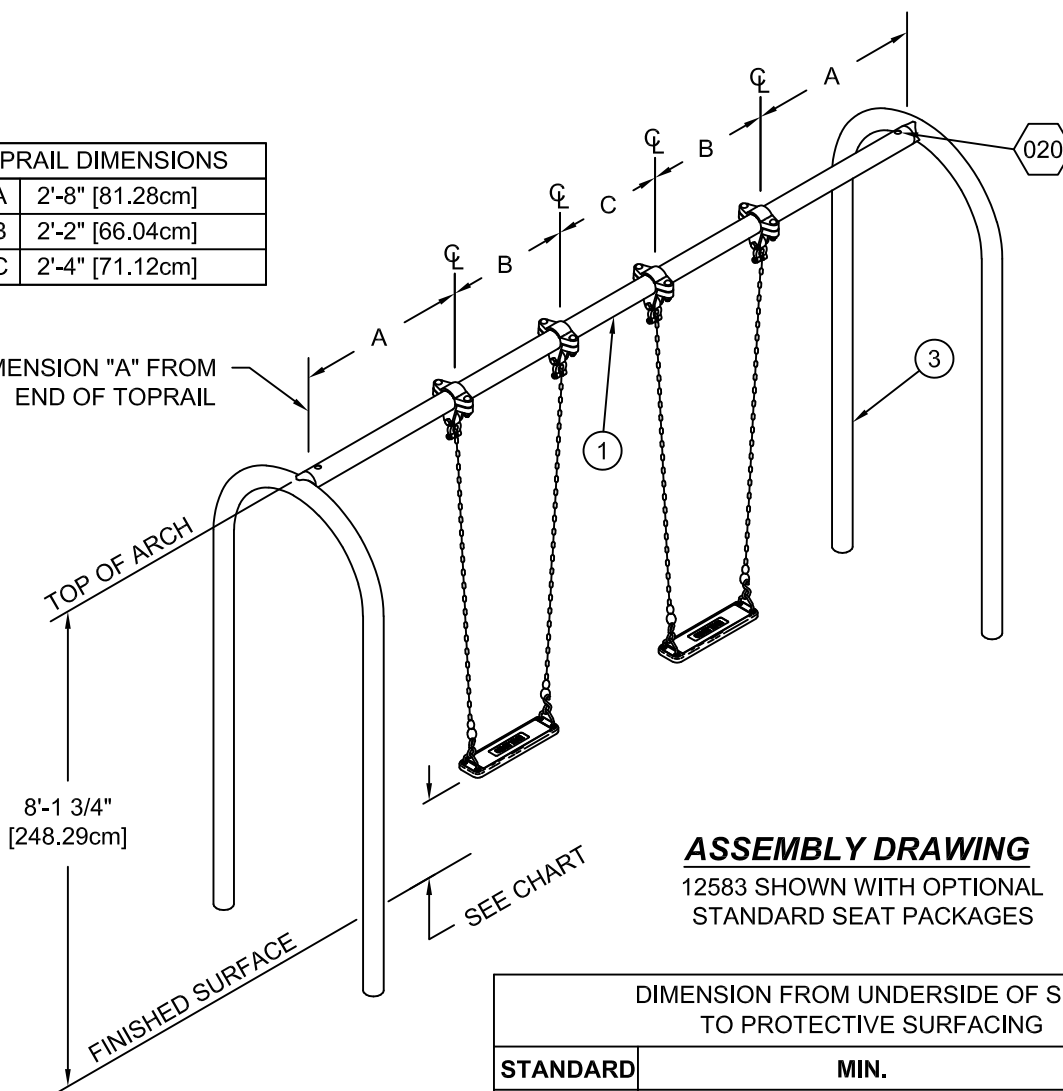
Note: Loctite (supplied by others) should be used on all threaded hardware.

-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

**NOTE: 12583 FREESTANDING
12584 ADD-A-BAY**

TOPRAIL DIMENSIONS	
DIM. A	2'-8" [81.28cm]
DIM. B	2'-2" [66.04cm]
DIM. C	2'-4" [71.12cm]

DIMENSION "A" FROM
END OF TOPRAIL



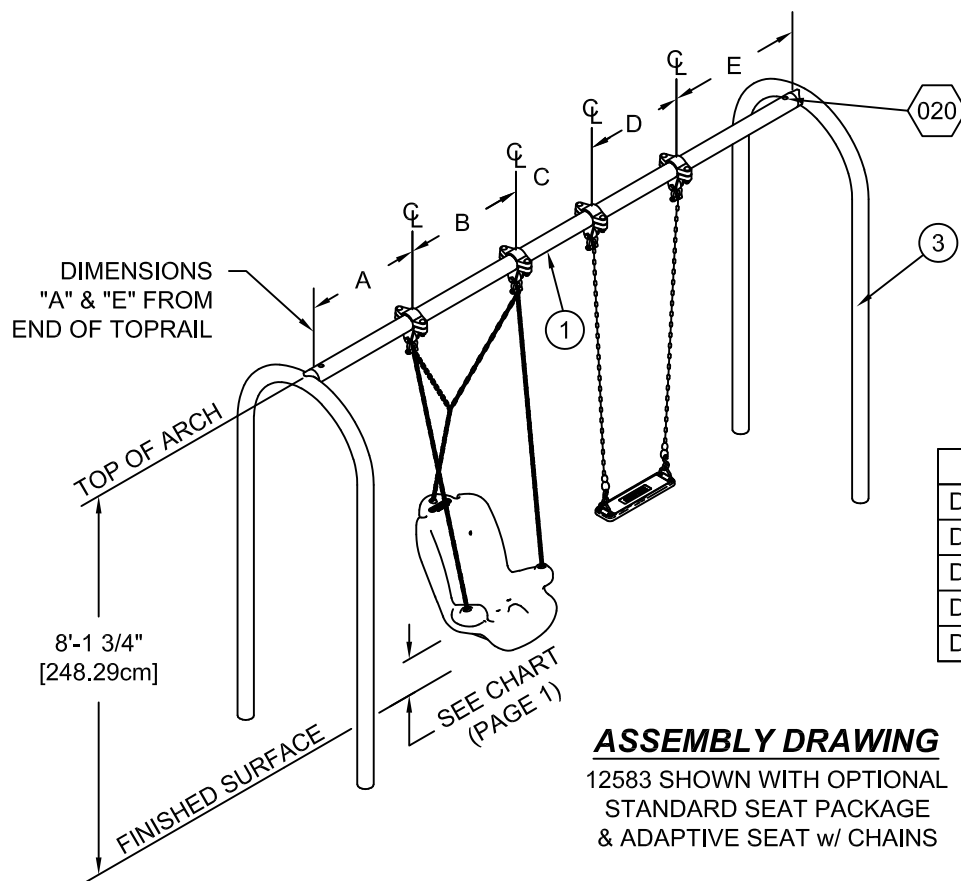
ASSEMBLY DRAWING

12583 SHOWN WITH OPTIONAL
STANDARD SEAT PACKAGES

NOTE: SWING SEAT PACKAGES
SHOWN ON ASSEMBLY DRAWINGS
NOT INCLUDED. SHOWN FOR
ILLUSTRATION ONLY.

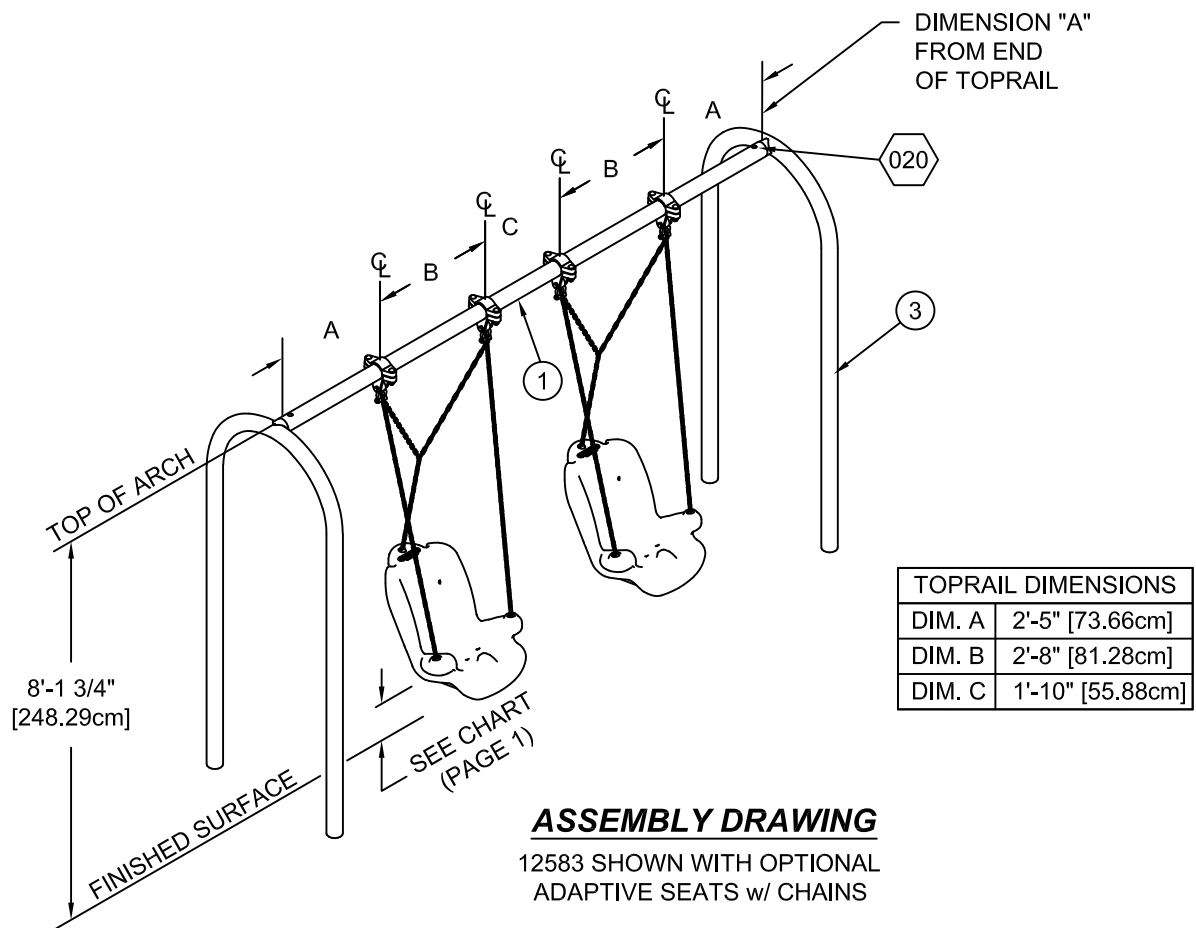
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
CANADIAN	BELT & SUPER SEAT - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	BELT & SUPER SEAT - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	BELT & SUPER SEAT - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A

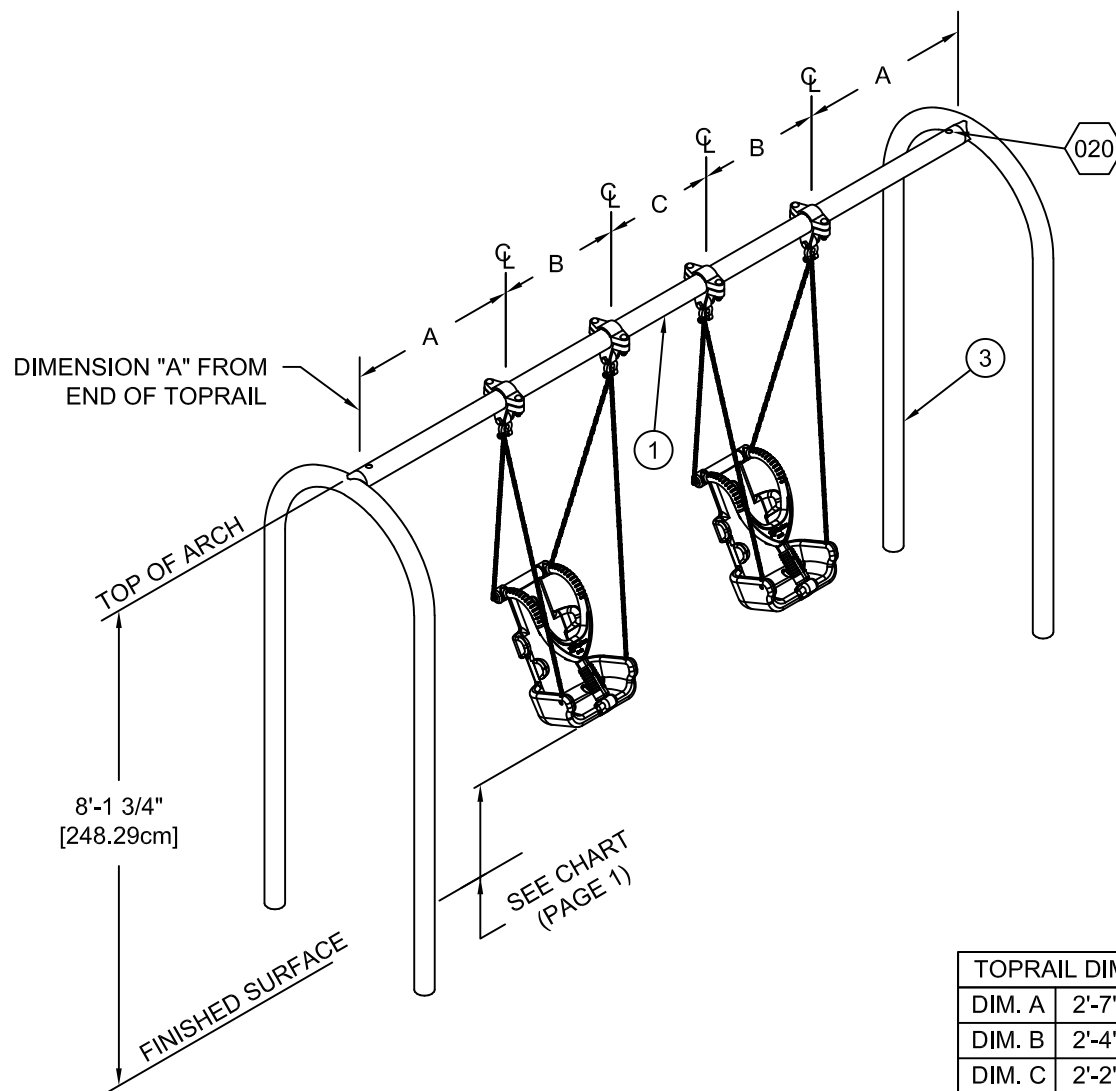
MEASURED WHEN OCCUPIED BY MAXIMUM USERS



ASSEMBLY DRAWING

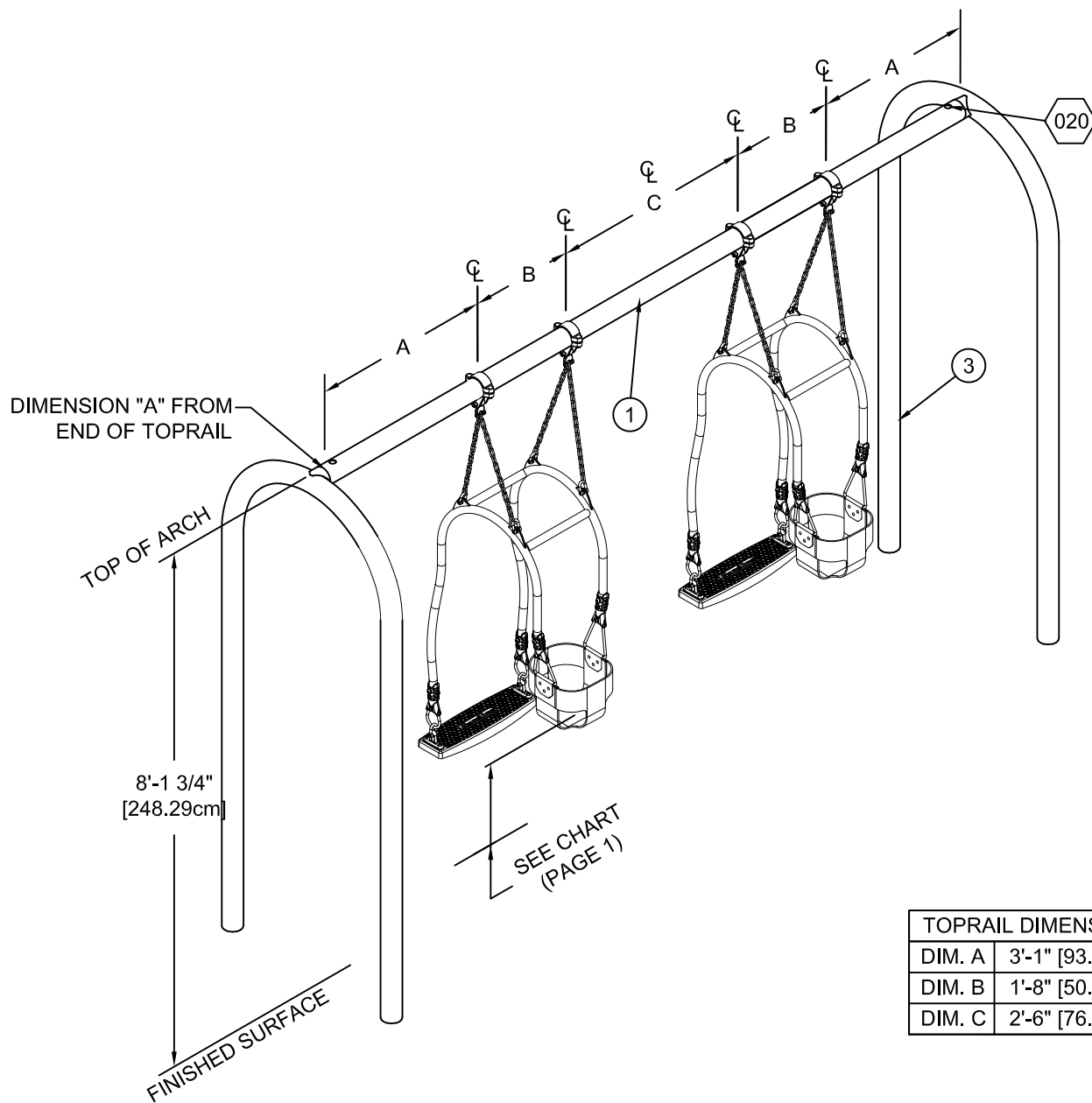
12583 SHOWN WITH OPTIONAL
STANDARD SEAT PACKAGE
& ADAPTIVE SEAT w/ CHAINS





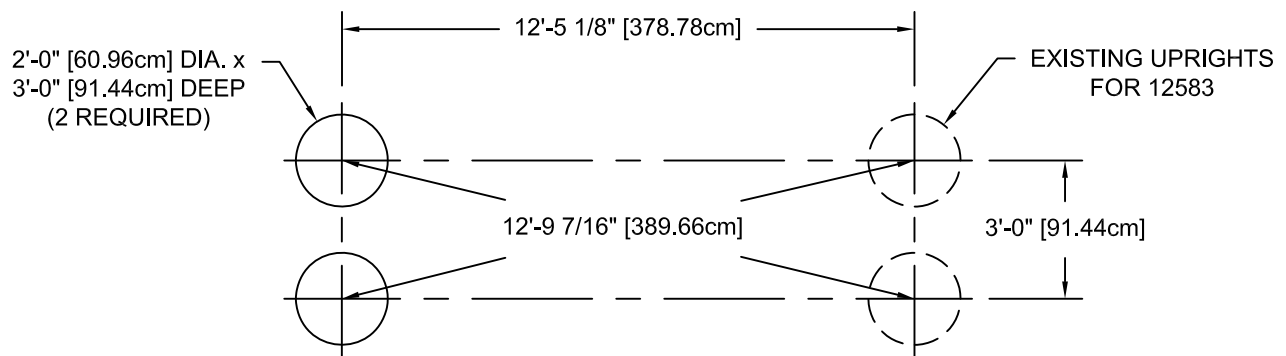
ASSEMBLY DRAWING

12583 SHOWN WITH OPTIONAL
ZERO-G CHAIRS



ASSEMBLY DRAWING

12583 SHOWN WITH OPTIONAL
EXPRESSION SWINGS

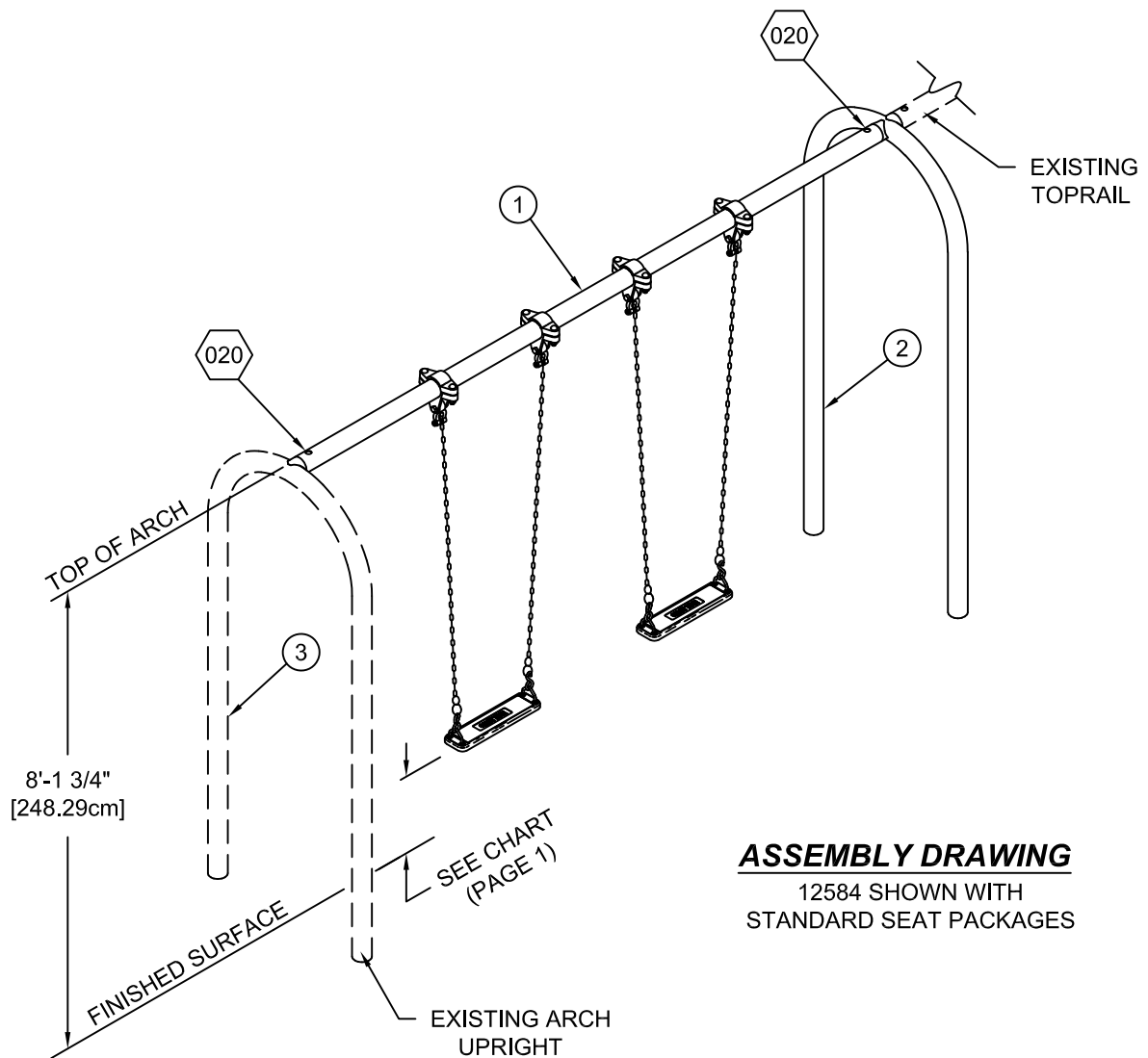


GROUND PLAN

NOTE: Hole depths indicated on all ground plans are measured from the finished surface. See Detail 005. All footing dimensions are based on level finished surface.

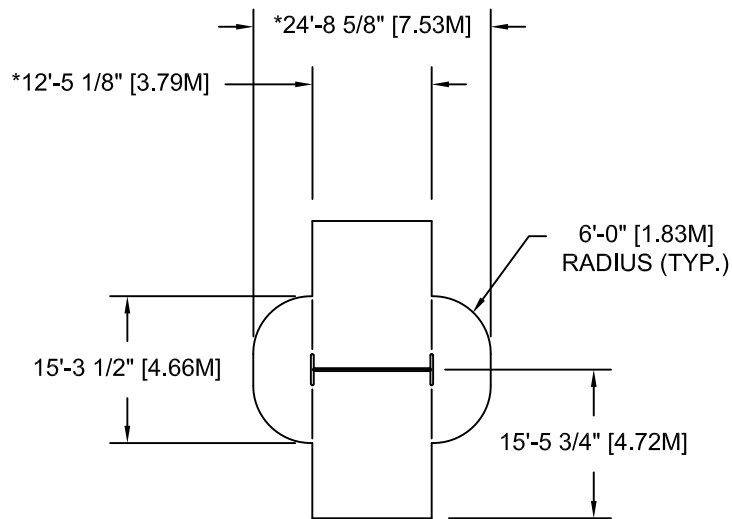
Concrete Required - 12583:
.92 Cubic Yards
[.70 Cubic Meters]

Concrete Required - 12584:
.46 Cubic Yards
[.35 Cubic Meters]



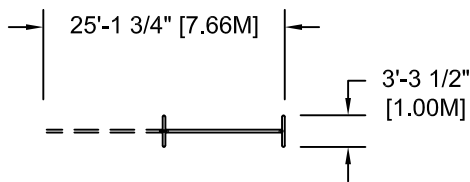
ASSEMBLY DRAWING

12584 SHOWN WITH
STANDARD SEAT PACKAGES

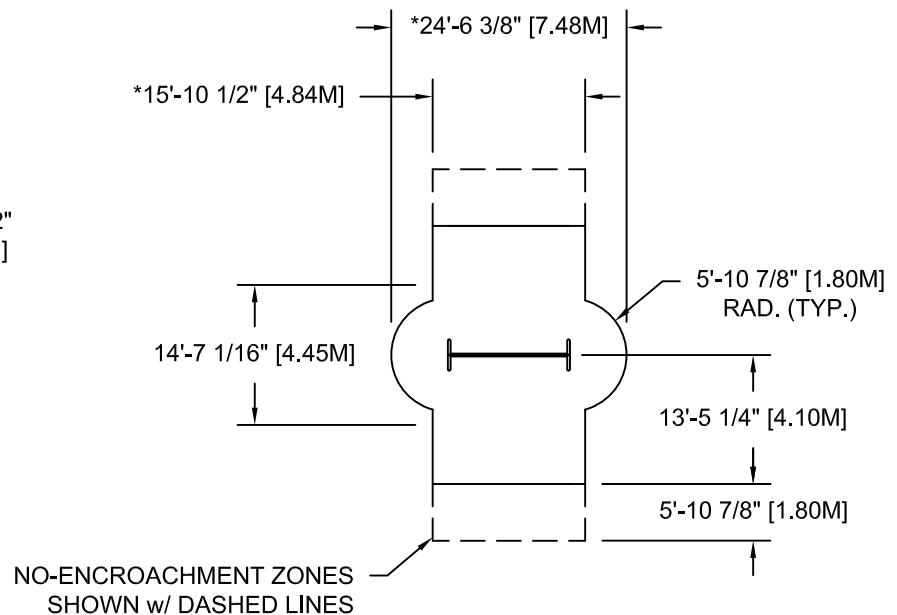


TOP VIEWS

12583



12584



12583 (CSA ONLY)

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 12'-5 1/8" [3.79M].

SPECIFICATIONS

TOPRAIL AND ARCH: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Arch includes a welded 3-1/8" O.D. galvanized steel sleeve to which the toprail is fastened.

FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or

powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to change specifications without notice.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE INSTALLATION SHEETS AND INSTALLATION INSTRUCTIONS. THE INSTALLATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Replace all worn S-Hooks. S-Hooks must be completely closed. To close S-Hooks properly, use GAMETIME® S-Hook Pliers. Failure to close S-Hooks properly can result in serious injury to the user. Never reuse S-Hooks.
- ☐ Test for free movement of swing hanger and other moving attached parts.
- ☐ Check for worn chains and replace them.
- ☐ Replace worn or damaged seats.
- ☐ A soft, resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat, both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

STEP 1: Dig holes according to the Ground Plan (see Detail 005 also). Place a brick or equivalent at the bottom of the hole to provide a solid foundation. Allow for this in hole depth (see Detail 005).

STEP 2: Insert top rail onto socket on the arch and secure with 1/2" x 4" hex head bolt, 1/2" flat washer, 1/2" lockwasher and 1/2" hex nut. Bolt head should recess inside oversize hole as shown in Detail 020.

STEP 3: Set frame in holes, making sure that legs rest on foundation bricks. Check to ensure swing is level.

STEP 4: Fill holes with concrete per Detail 005. Plumb and brace assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

STEP 5: Place swing hangers on top rail using Assembly Drawing for spacing. Hang seats per Installation Sheet for swing seats.

STEP 6: After assembly is complete, place manufacturer's I.D. label in a visible location.

PARTS LIST

REF. NO.	DESCRIPTION	NO. REQ'D		PART NUMBER
		12583	12584	
1	3-1/2" O.D. Toprail	1	1	168622
2	Multi-Bay Arch Upright Ass'y	0	1	152805
3	Arch End Upright Ass'y	2	0	152803
	Hardware Complete	1	1	152821
	1/2" x 4" Hex Bolt	2	2	801215*
	1/2" Lockwasher	2	2	817342*
	1/2" Hex Nut	2	2	804055*
	1/2" Flatwasher	2	2	817412*
	Manufacturer I.D. Label	1	1	159151*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

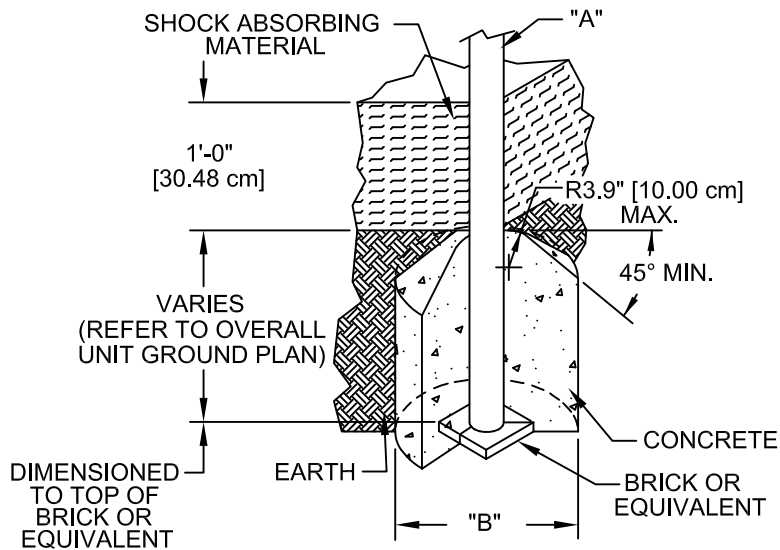
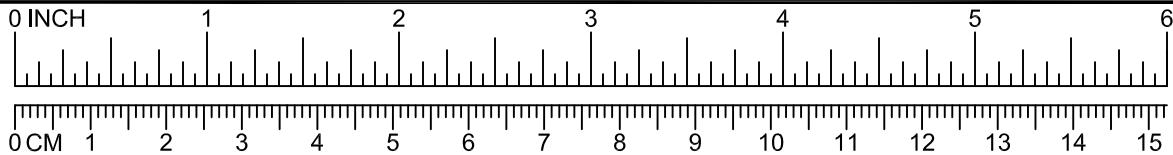
Note: Loctite (supplied by others) should be used on all threaded hardware.

DETAILS -for- 12583 & 12584

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
ARCH SWING	
3 1/2" [8.89 cm]	2'-0" [60.96 cm]

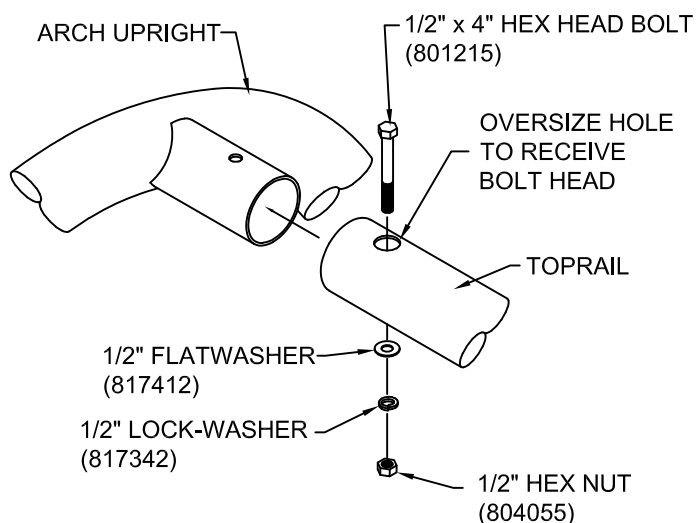
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

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI



SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

NOTE: PEEN FLATWASHERS AFTER INSTALLATION TO MATCH RADIUS OF TOPRAIL.

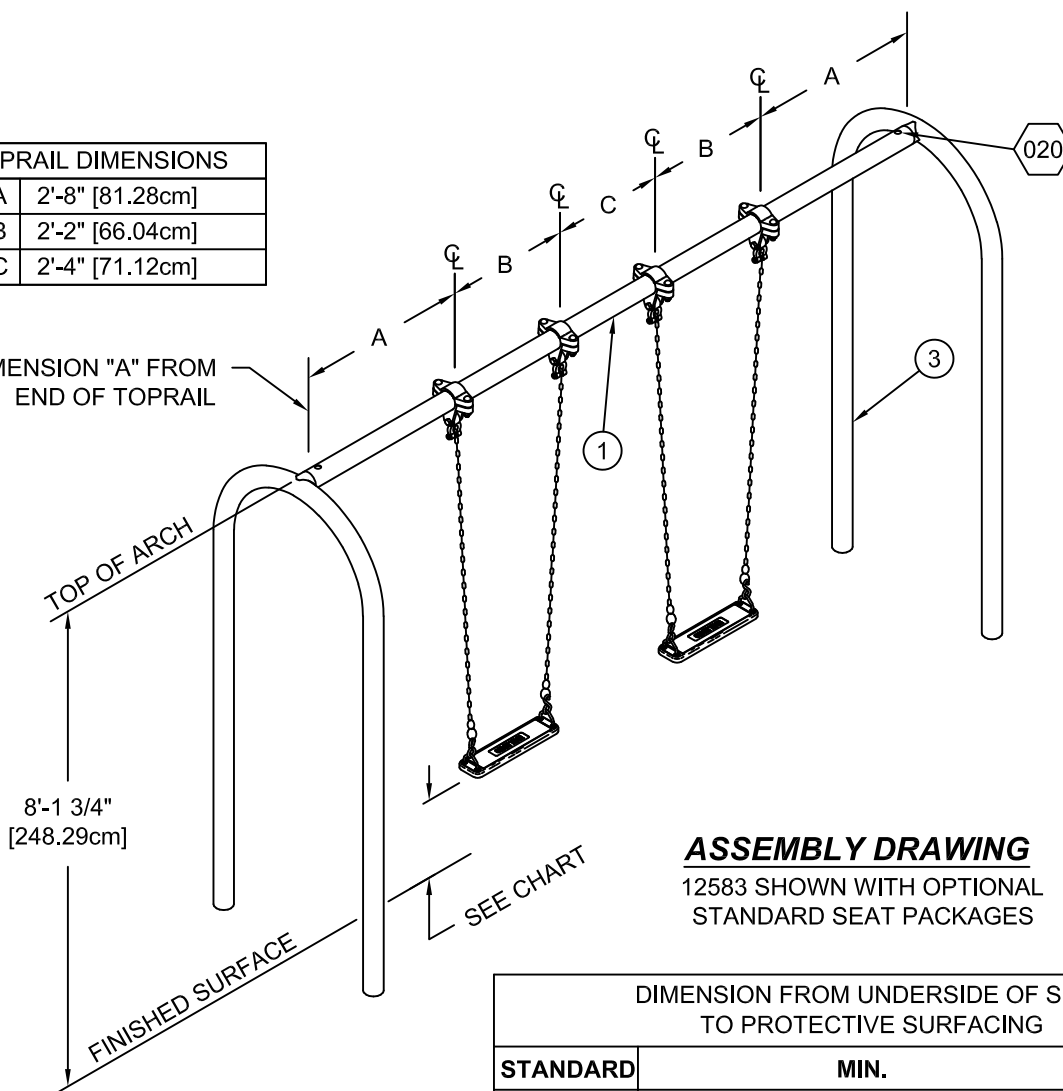


-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

**NOTE: 12583 FREESTANDING
12584 ADD-A-BAY**

TOPRAIL DIMENSIONS	
DIM. A	2'-8" [81.28cm]
DIM. B	2'-2" [66.04cm]
DIM. C	2'-4" [71.12cm]

DIMENSION "A" FROM
END OF TOPRAIL



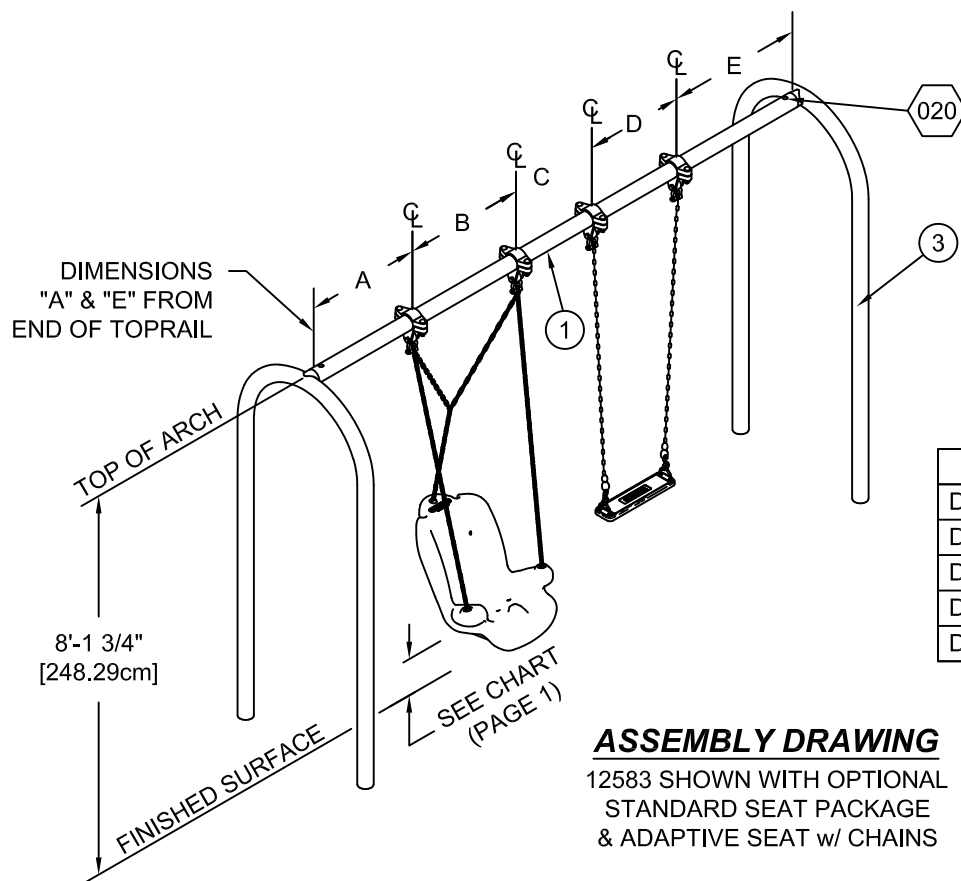
ASSEMBLY DRAWING

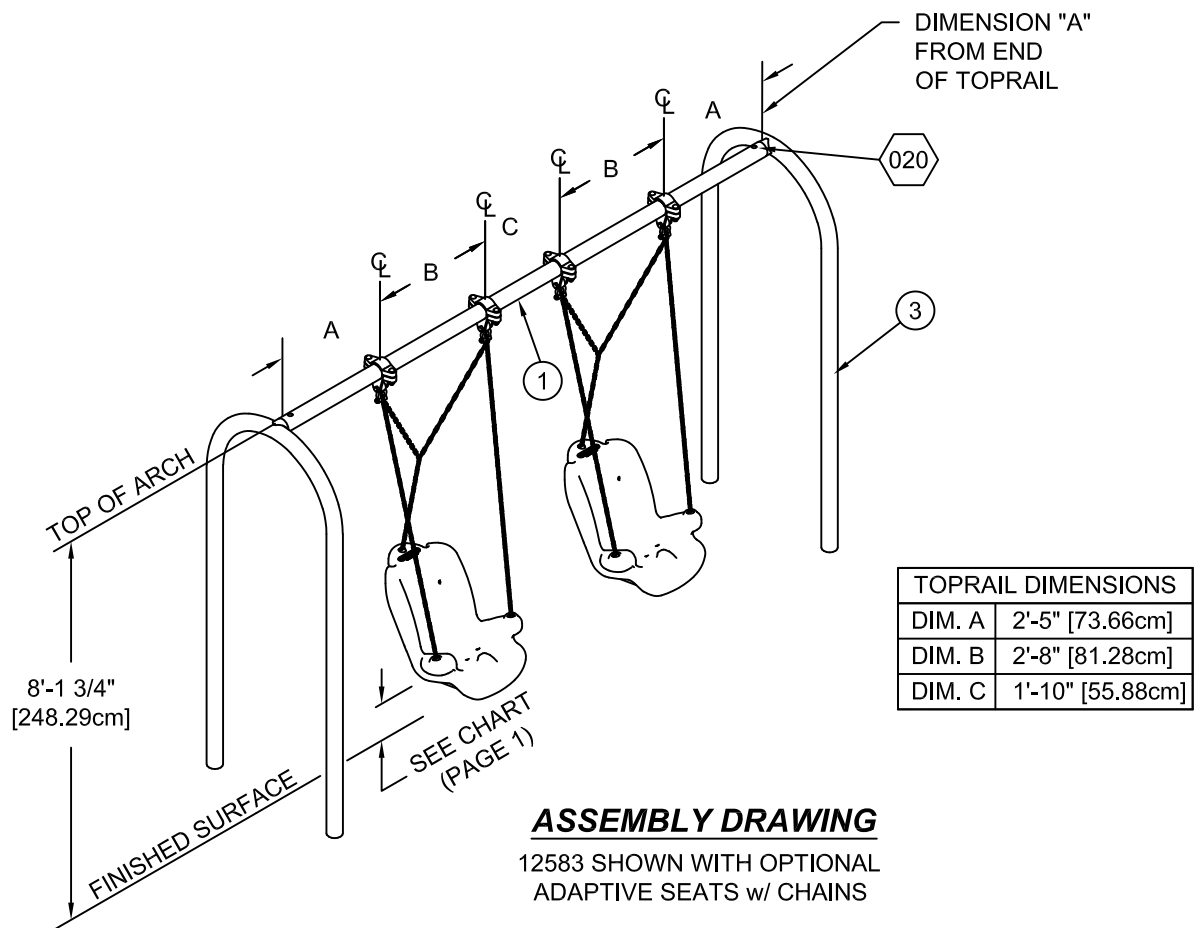
12583 SHOWN WITH OPTIONAL
STANDARD SEAT PACKAGES

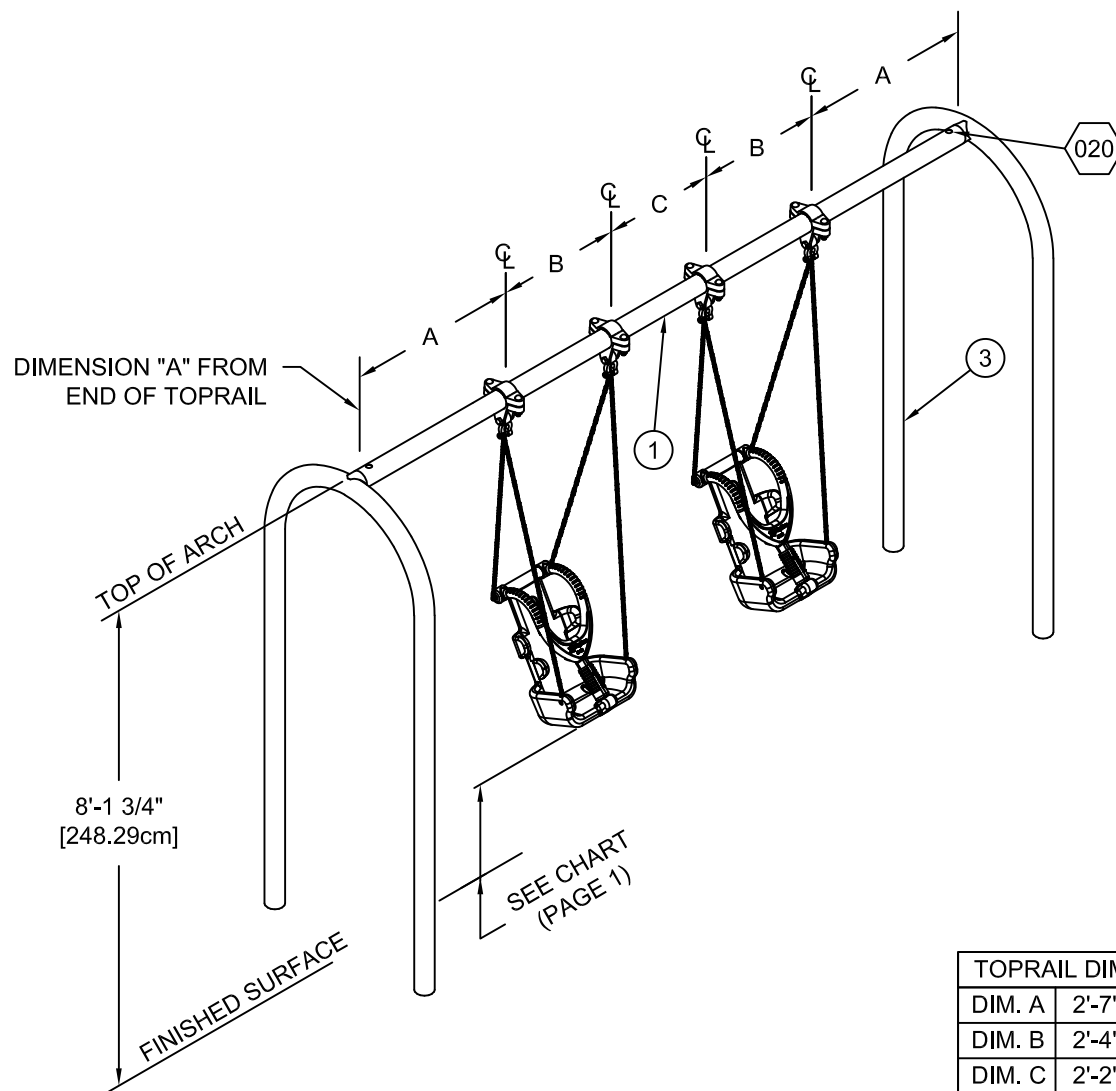
NOTE: SWING SEAT PACKAGES
SHOWN ON ASSEMBLY DRAWINGS
NOT INCLUDED. SHOWN FOR
ILLUSTRATION ONLY.

DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
CANADIAN	BELT & SUPER SEAT - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	BELT & SUPER SEAT - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	BELT & SUPER SEAT - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A

MEASURED WHEN OCCUPIED BY MAXIMUM USERS

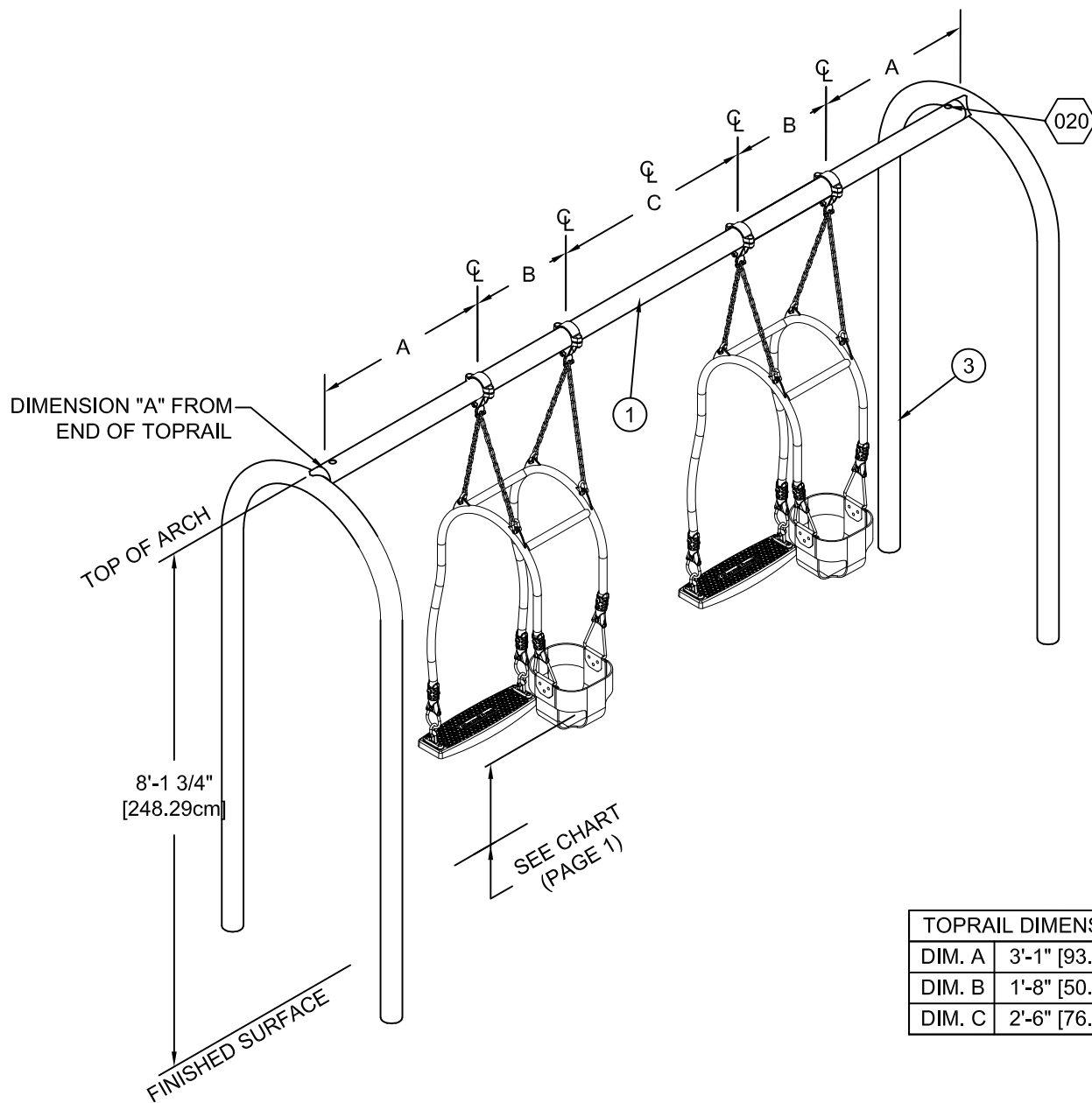






ASSEMBLY DRAWING

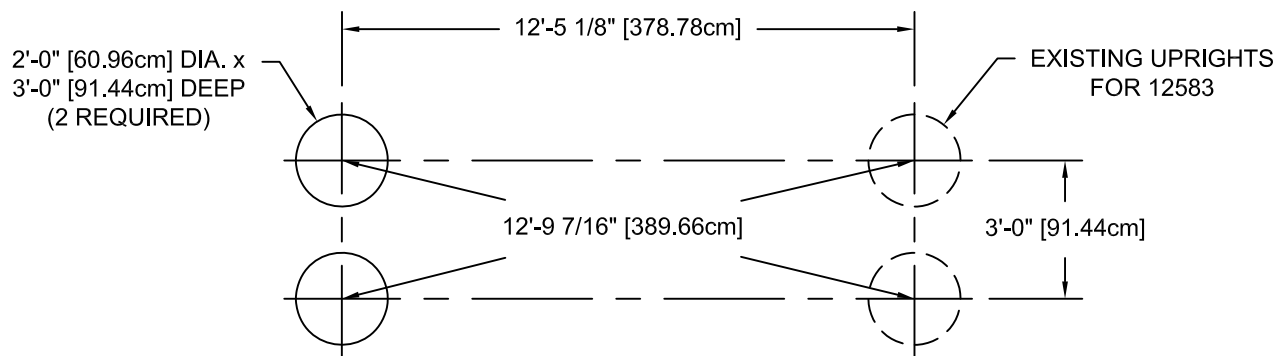
12583 SHOWN WITH OPTIONAL
ZERO-G CHAIRS



TOPRAIL DIMENSIONS	
DIM. A	3'-1" [93.98cm]
DIM. B	1'-8" [50.80cm]
DIM. C	2'-6" [76.20cm]

ASSEMBLY DRAWING

12583 SHOWN WITH OPTIONAL
EXPRESSION SWINGS

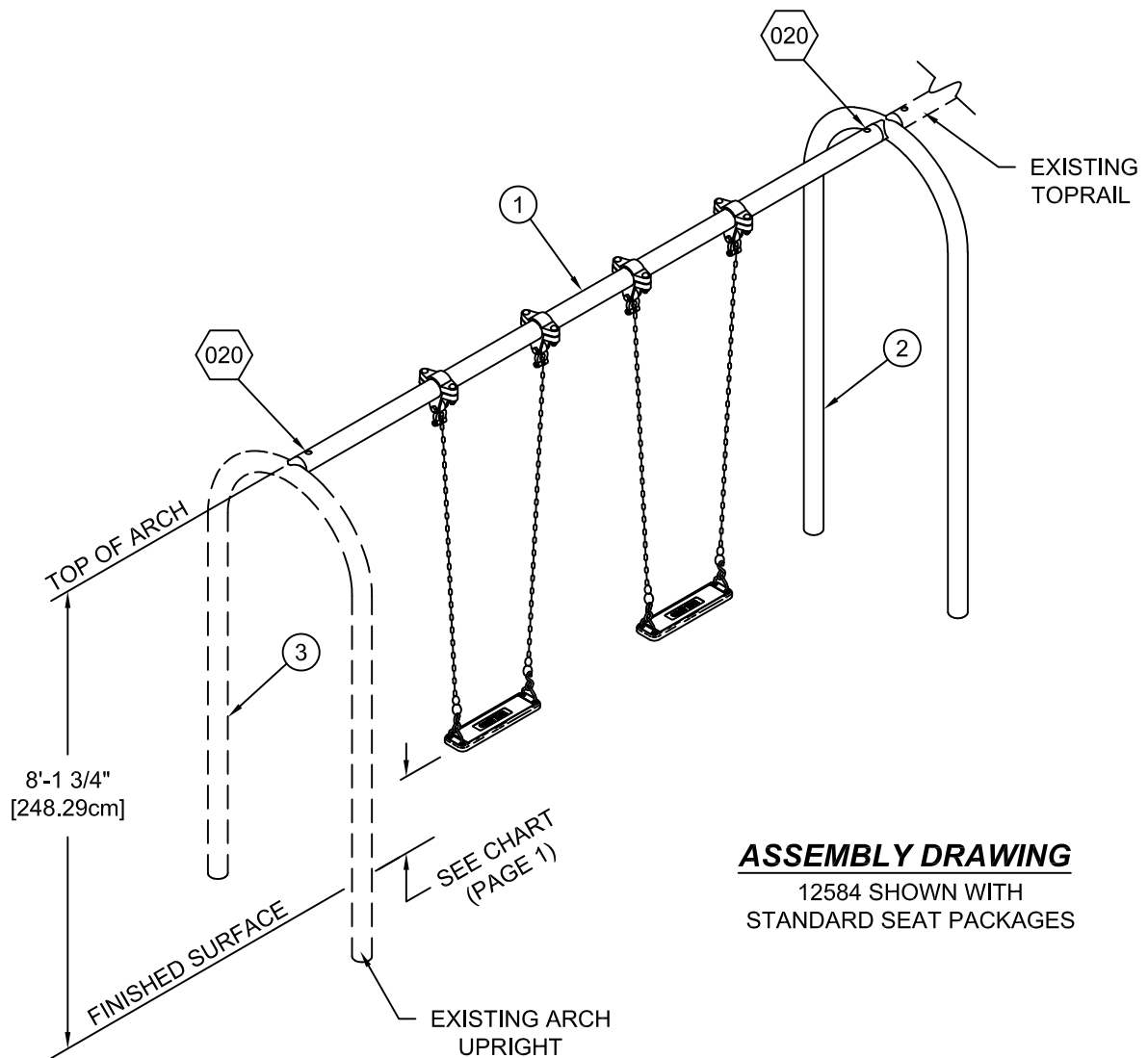


GROUND PLAN

NOTE: Hole depths indicated on all ground plans are measured from the finished surface. See Detail 005. All footing dimensions are based on level finished surface.

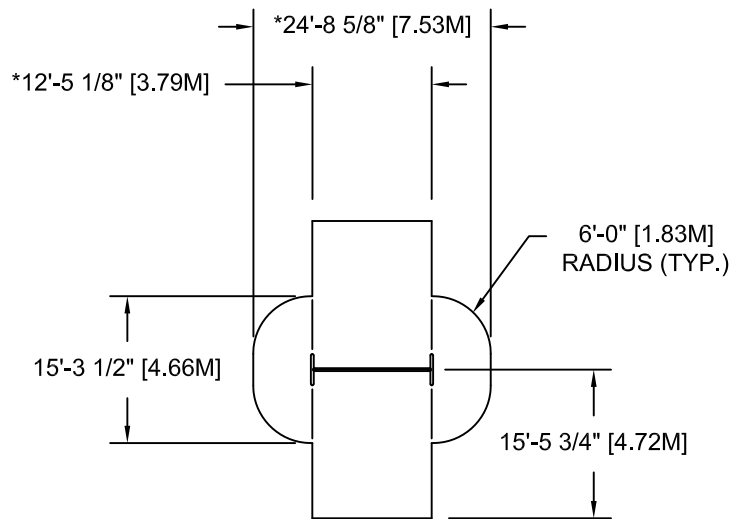
Concrete Required - 12583:
 .92 Cubic Yards
 [.70 Cubic Meters]

Concrete Required - 12584:
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 [.35 Cubic Meters]



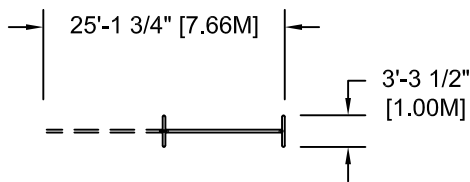
ASSEMBLY DRAWING

12584 SHOWN WITH
STANDARD SEAT PACKAGES

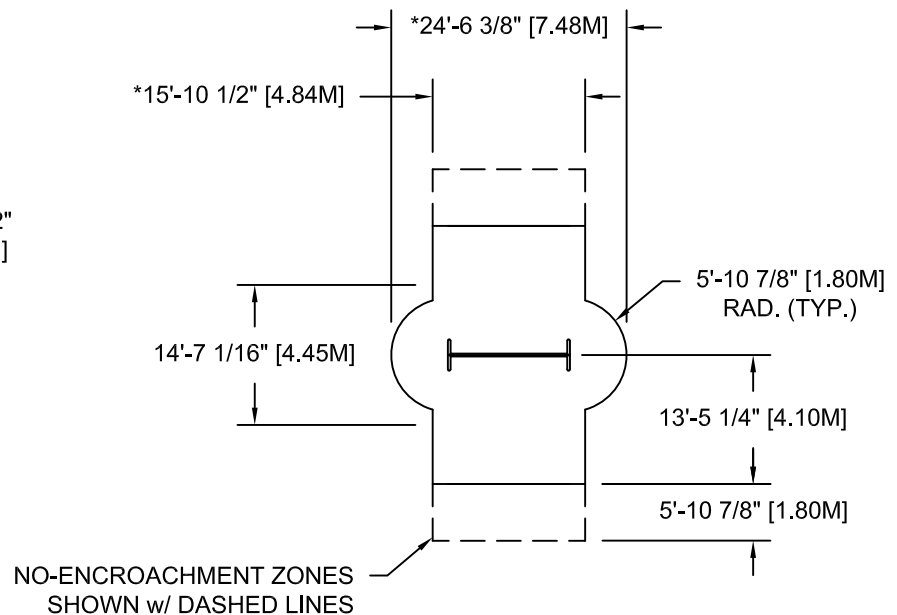


TOP VIEWS

12583



12584



12583 (CSA ONLY)

NOTE:

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3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 12'-5 1/8" [3.79M].

SPECIFICATIONS

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FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or

powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

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- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Replace all worn S-Hooks. S-Hooks must be completely closed. To close S-Hooks properly, use GAMETIME® S-Hook Pliers. Failure to close S-Hooks properly can result in serious injury to the user. Never reuse S-Hooks.
- ☐ Test for free movement of swing hanger and other moving attached parts.
- ☐ Check for worn chains and replace them.
- ☐ Replace worn or damaged seats.
- ☐ A soft, resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat, both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

STEP 1: Dig holes according to the Ground Plan (see Detail 005 also). Place a brick or equivalent at the bottom of the hole to provide a solid foundation. Allow for this in hole depth (see Detail 005).

STEP 2: Insert top rail onto socket on the arch and secure with 1/2" x 4" hex head bolt, 1/2" flatwasher, 1/2" lockwasher and 1/2" hex nut. Bolt head should recess inside oversize hole as shown in Detail 020.

STEP 3: Set frame in holes, making sure that legs rest on foundation bricks. Check to ensure swing is level.

STEP 4: Fill holes with concrete per Detail 005. Plumb and brace assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

STEP 5: Place swing hangers on top rail using Assembly Drawing for spacing. Hang seats per Installation Sheet for swing seats.

STEP 6: After assembly is complete, place manufacturer's I.D. label in a visible location.

PARTS LIST

REF. NO.	DESCRIPTION	NO. REQ'D		PART NUMBER
		12583	12584	
1	3-1/2" O.D. Toprail	1	1	168622
2	Multi-Bay Arch Upright Ass'y	0	1	152805
3	Arch End Upright Ass'y	2	0	152803
	Hardware Complete	1	1	152821
	1/2" x 4" Hex Bolt	2	2	801215*
	1/2" Lockwasher	2	2	817342*
	1/2" Hex Nut	2	2	804055*
	1/2" Flatwasher	2	2	817412*
	Manufacturer I.D. Label	1	1	159151*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

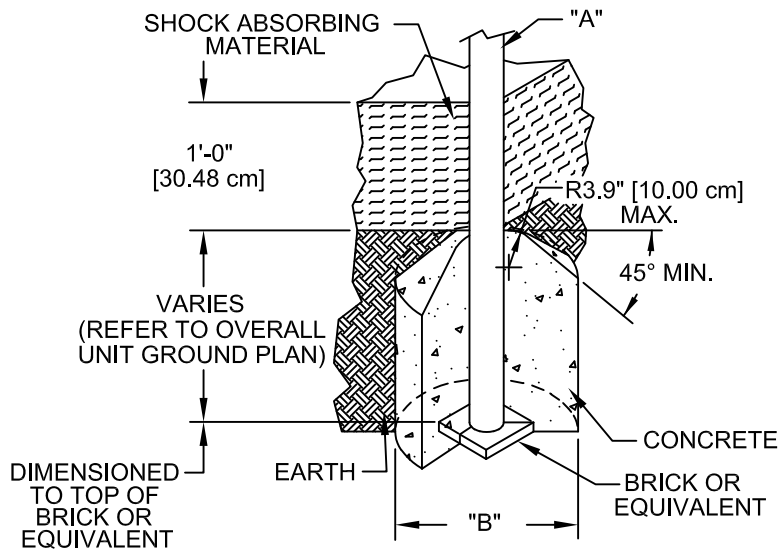
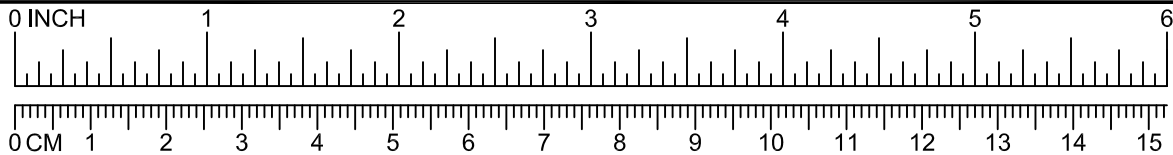
Note: Loctite (supplied by others) should be used on all threaded hardware.

DETAILS -for- 12583 & 12584

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
ARCH SWING	
3 1/2" [8.89 cm]	2'-0" [60.96 cm]

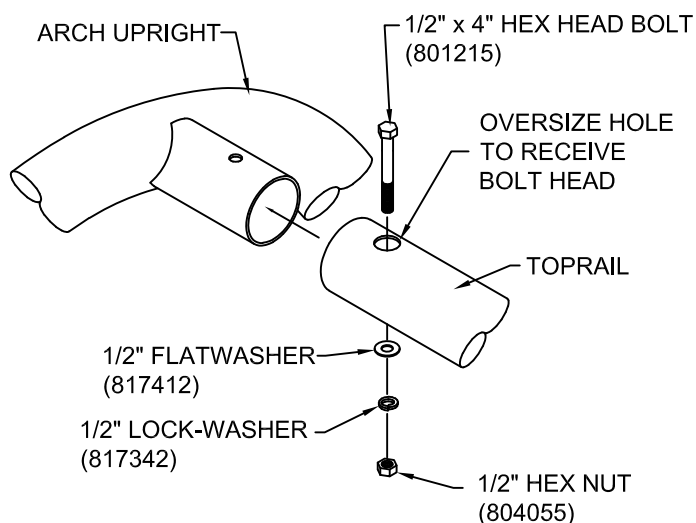
NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI



SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

NOTE: PEEN FLATWASHERS AFTER INSTALLATION TO MATCH RADIUS OF TOPRAIL.



primetime®



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 3/28/2022

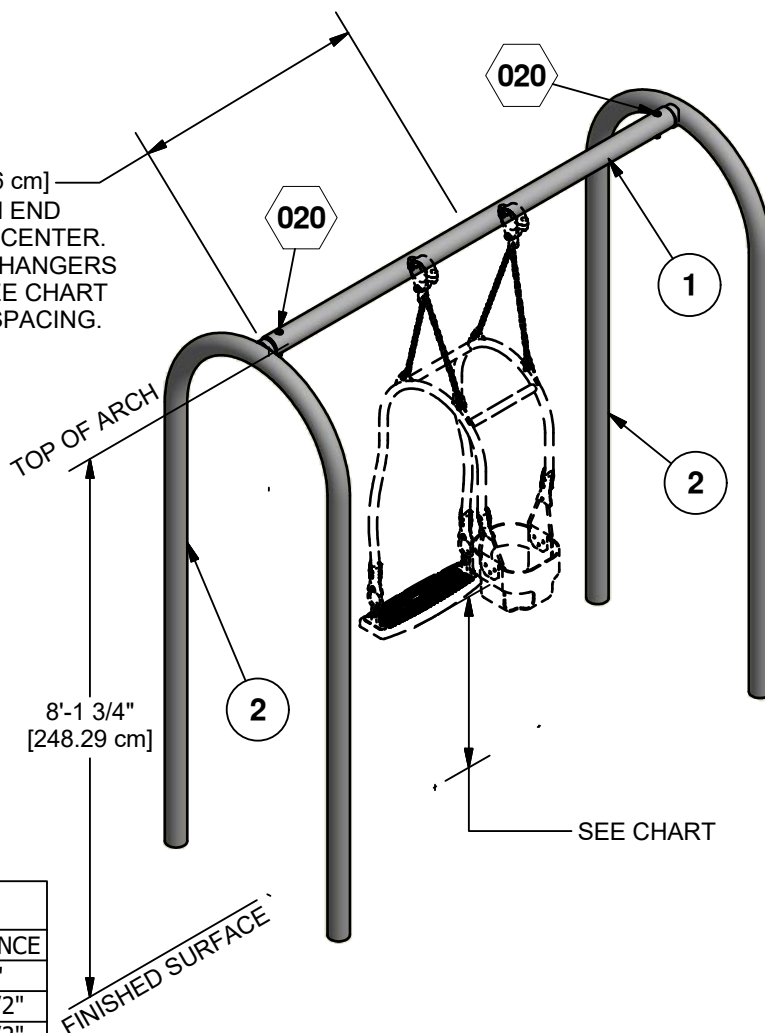
5151 PRIMETIME SOLO SWING

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

PRIMETIME SOLO SWING 5151
PRIMETIME SOLO ADD-A-BAY 5152

44" [111.76 cm]
DISTANCE FROM END
OF TOP RAIL TO CENTER.
CENTER SWING HANGERS
ON TOP RAIL. SEE CHART
FOR CORRECT SPACING.



NOTE: SWING SEAT PACKAGES
SHOWN ON ASSEMBLY DRAWINGS
NOT INCLUDED. SHOWN FOR
ILLUSTRATION ONLY.

SWING HANGER SPACING CENTER TO CENTER

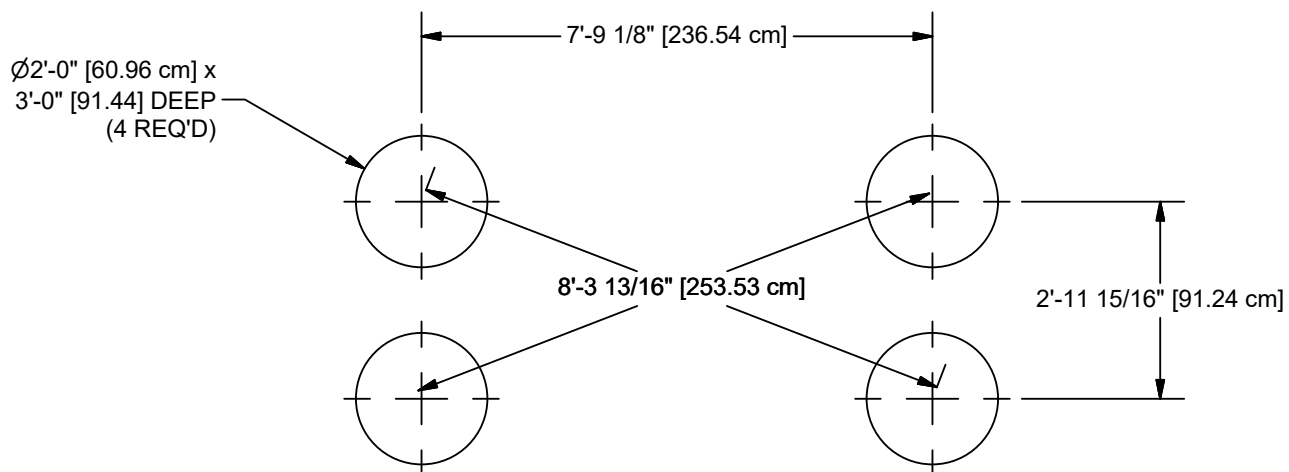
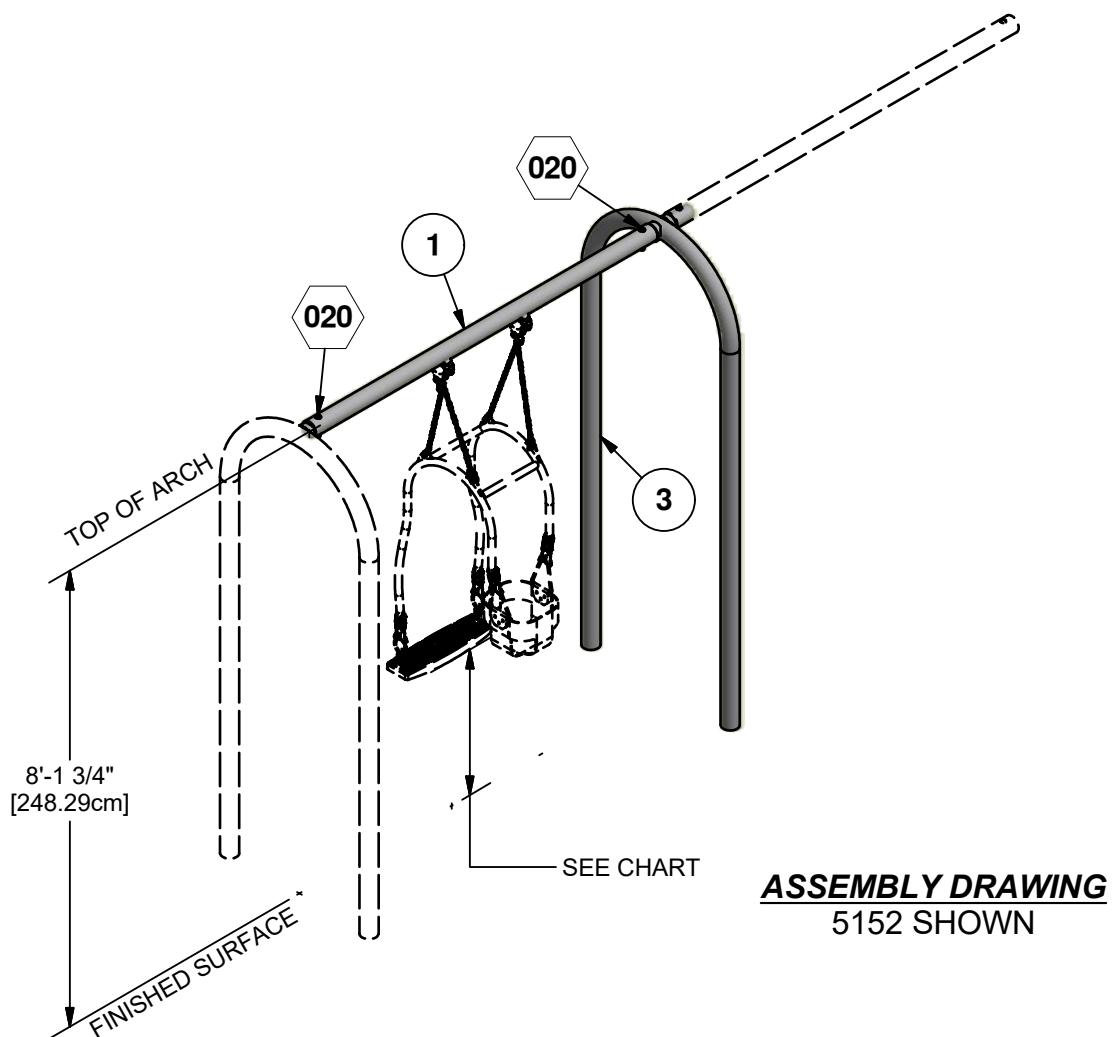
#	DESCRIPTION	DISTANCE
999	SUPER SEAT	26"
1047	BELT SEAT	23 1/2"
8520	FULLY ENCLOSED SEAT	23 1/2"
8558	ZERO-G CHAIR	28"
5003	ADAPTIVE SWING W/RUNGS	24"
8536		
8537	ADAPTIVE SWING W/CHAIN	31 1/2"
8538		
SS8537		
5004		
5004		
SS5004		
5128	EXPRESSION SWING	20"
5158	EXPRESSION SWING TODDLER	
5165	EXPRESSION SWING ADAPTIVE SEAT	24"
5167	EXPRESSION SWING TANDEM	

*MINIMUM DISTANCE VARIES
BY SWING TYPE; SEE
INSTALLATION INSTRUCTIONS
FOR THE SPECIFIC SWING SEAT
TO BE INSTALLED.

DIMENSION FROM UNDERSIDE OF SEAT
TO PROTECTIVE SURFACING

STANDARD	MIN.	MAX.
*CANADIAN	300mm [11.81"]	N/A
ASTM	12" [305mm]	N/A
BS EN	350mm [13.77"]	N/A
CPSC	12" [305mm]	N/A

*UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]



NOTE: Hole depths indicated on all ground plans are measured from the finished surface. See Detail 005. All footing dimensions are based on level finished surface.

CONCRETE REQUIRED- 5151
0.93 CUBIC YARDS
[0.71 CUBIC METERS]

CONCRETE REQUIRED- 5152
.46 CUBIC YARDS
[.35 CUBIC METERS]

Parts List				
REF.	DESCRIPTION	5151	5152	PART NUMBER
1	TOP RAIL	1	1	209804
2	ARCH END UPRIGHT ASS'Y	2	0	152803
3	MULTI-BAY ARCH UPRIGHT ASS'Y	0	1	152805
	HARDWARE COMPLETE	1	1	152821
	1/2" x 4" HEX HEAD BOLT	2	2	801215*
	1/2" FLAT WASHER	2	2	817412*
	1/2" LOCKWASHER	2	2	817342*
	1/2" HEX NUT	2	2	804055*
	MANUFACTURER I.D. LABEL	1	1	159151*

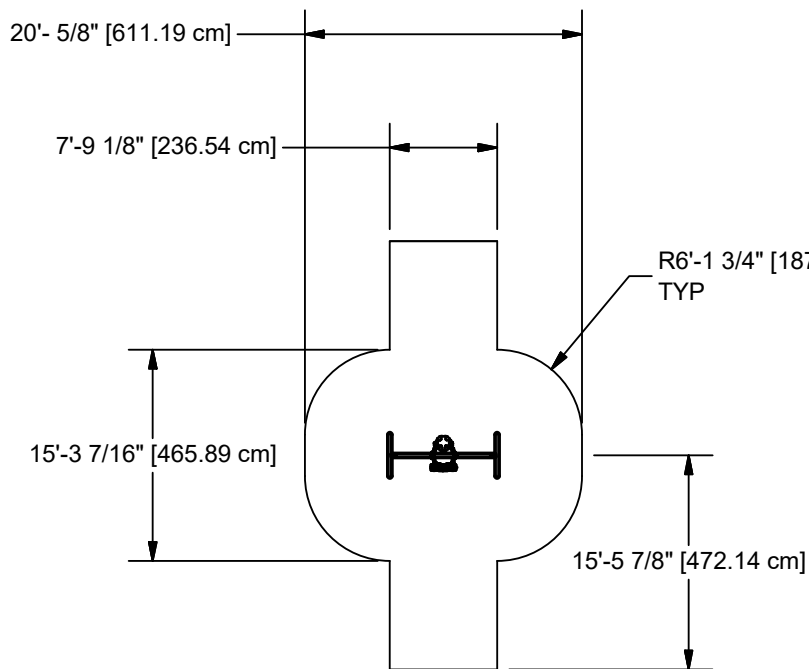
Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

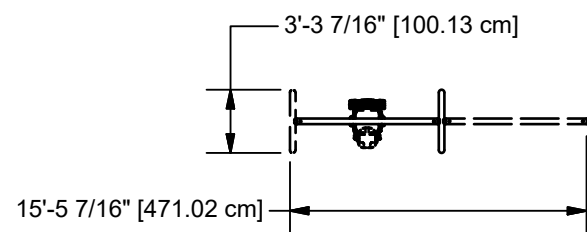
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.



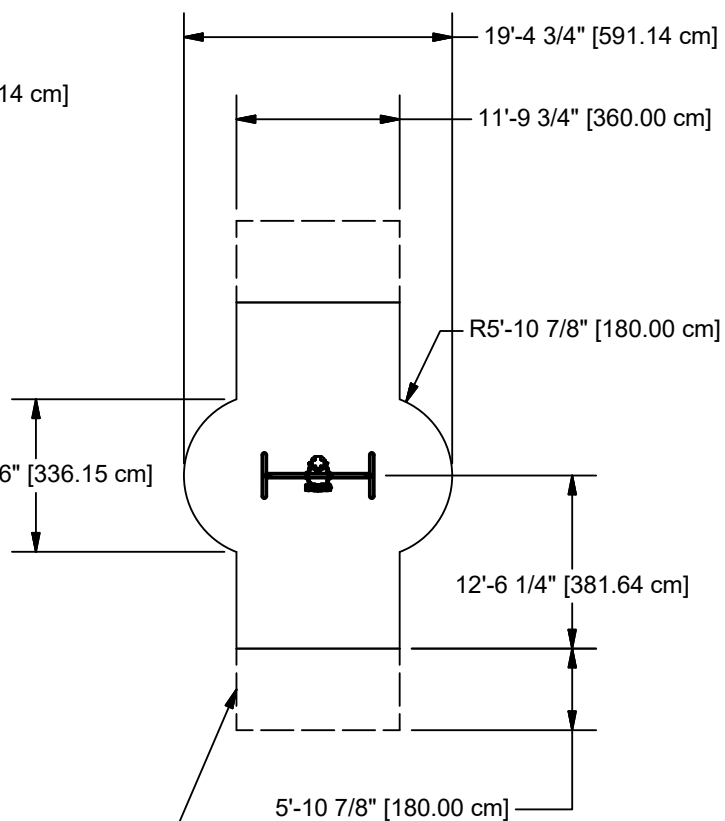
5151



5152

NO-ENCROACHMENT ZONES
SHOWN w/ DASHED LINES

TOP VIEWS



5151 (CSA ONLY)

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 12'-5 1/8\" [3.79M].

SPECIFICATIONS

TOPRAIL AND ARCH: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Arch includes a welded 3-1/8" O.D. galvanized steel sleeve to which the top rail is fastened.

FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or

powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to change specifications without notice.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE INSTALLATION SHEETS AND INSTALLATION INSTRUCTIONS. THE INSTALLATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Replace all worn S-Hooks. S-Hooks must be completely closed. To close S-Hooks properly, use GAMETIME® S-Hook Pliers. Failure to close S-Hooks properly can result in serious injury to the user. Never reuse S-Hooks.
- ☐ Test for free movement of swing hanger and other moving attached parts.
- ☐ Check for worn chains and replace them.
- ☐ Replace worn or damaged seats.
- ☐ A soft, resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat, both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

INSTALLATION INSTRUCTIONS

NOTE: *THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.*

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

STEP 1: Dig holes according to the Ground Plan (see Detail 005 also). Place a brick or equivalent at the bottom of the hole to provide a solid foundation. Allow for this in hole depth (see Detail 005).

STEP 2: Insert toprail onto socket on the arch and secure with 1/2" x 4" hex head bolt, 1/2" flatwasher, 1/2" lockwasher and 1/2" hex nut. Bolt head should recess inside oversize hole as shown in Detail 020.

STEP 3: Set frame in holes, making sure that legs rest on foundation bricks. Check to ensure swing is level.

STEP 4: Fill holes with concrete per Detail 005. Plumb and brace assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

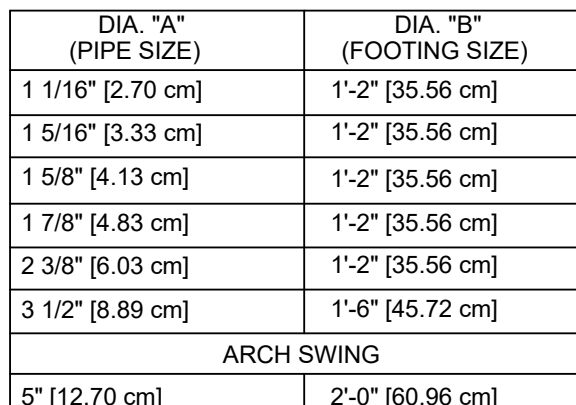
STEP 5: Place swing hangers on toprail using Assembly Drawing for spacing. Hang seats per Installation Sheet for swing seats.

STEP 6: After assembly is complete, place manufacturer's I.D. label in a visible location.

IMPORTANT

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



NOTES:



- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

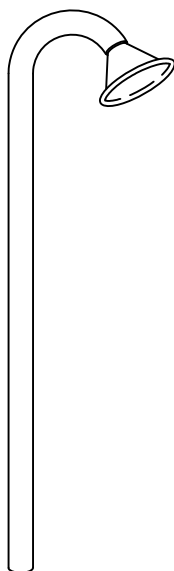


81675

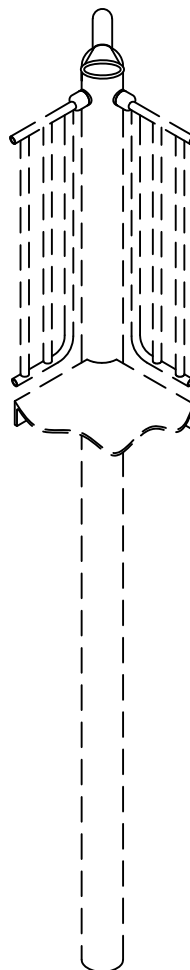
TALK TUBE ATTACHMENTS

-  = INSTALLATION
 = DETAIL
 = PARTS LIST
 = REFERENCE

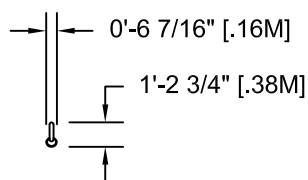
0'-6" THRU 2'-0"	81675
2'-6" THRU 4'-0"	81676
4'-6" THRU 6'-0"	81677
6'-6" THRU 8'-0"	81678
FREESTANDING	81768



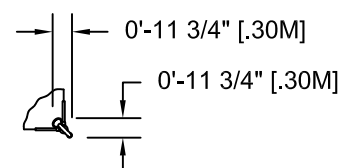
81768



81678 SHOWN



81768



81675-81678

TOP VIEWS

INSTALLATION INSTRUCTIONS

IN-GROUND ASSEMBLY

1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all instructions during installation.
2. Assemble parts as shown in the *Assembly Drawing*. Refer to the assembly details for the specific hardware required in each connection.

DECK ASSEMBLY

1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all instructions during installation.
2. Assemble parts as shown in the *Assembly Drawing*. Refer to the assembly details for the specific hardware required in each connection.
3. Dig 6" wide x 6" deep trench between designated locations for talk tubes.
4. Refer to Pipe Length chart on the *Assembly Drawing* to field cut the non-swaged end of talk tube section to its proper length.
5. Attach Connection Sleeves to Upright. Refer to Detail 436.
6. Slide talk tube section thru Connection Sleeves and attach the talk tube section and 10'-0" lengths of PVC pipe to the 90° PVC elbow using the Fitting Detail.

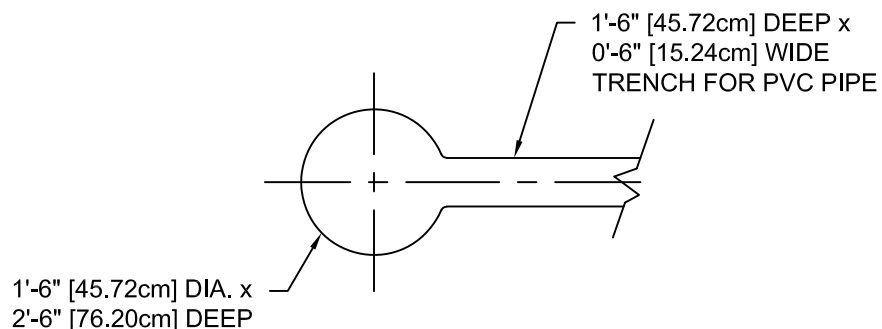
7. Slide the Funnel Assembly thru connection sleeve. Fit Funnel Assembly over swaged top on Talk Tube Section. Refer to detail 245. ***Note: See Top View for orientation. Funnel Assembly should be positioned directly over top of upright as shown in Assembly Drawing and Top View.**

8. Refer to the Assembly Drawing dimensions of Funnel Assembly in relation to the upright. Attach Funnel Assembly and Talk Tube Section to Connection Sleeves using pop rivets. Refer to detail 435.

9. For Ground level installation attach Funnel Assembly to upright using detail 430. Refer to 90661 Assembly Drawing for proper placement.

Attention: Because sound travels best in a straight line, the pipe and couplings furnished with this product accommodate in-line installation. If your installation requires turns in the pipe, you may purchase the appropriate 1-1/4" PVC couplings at a local hardware or plumbing supply store.

NOTE: NO CONCRETE IS REQUIRED FOR TRENCH, REFER TO TOP VIEW IN INSTALLATION MANUAL FOR TRENCH LENGTH. DISTANCE WILL VARY.

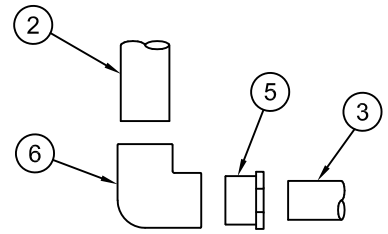
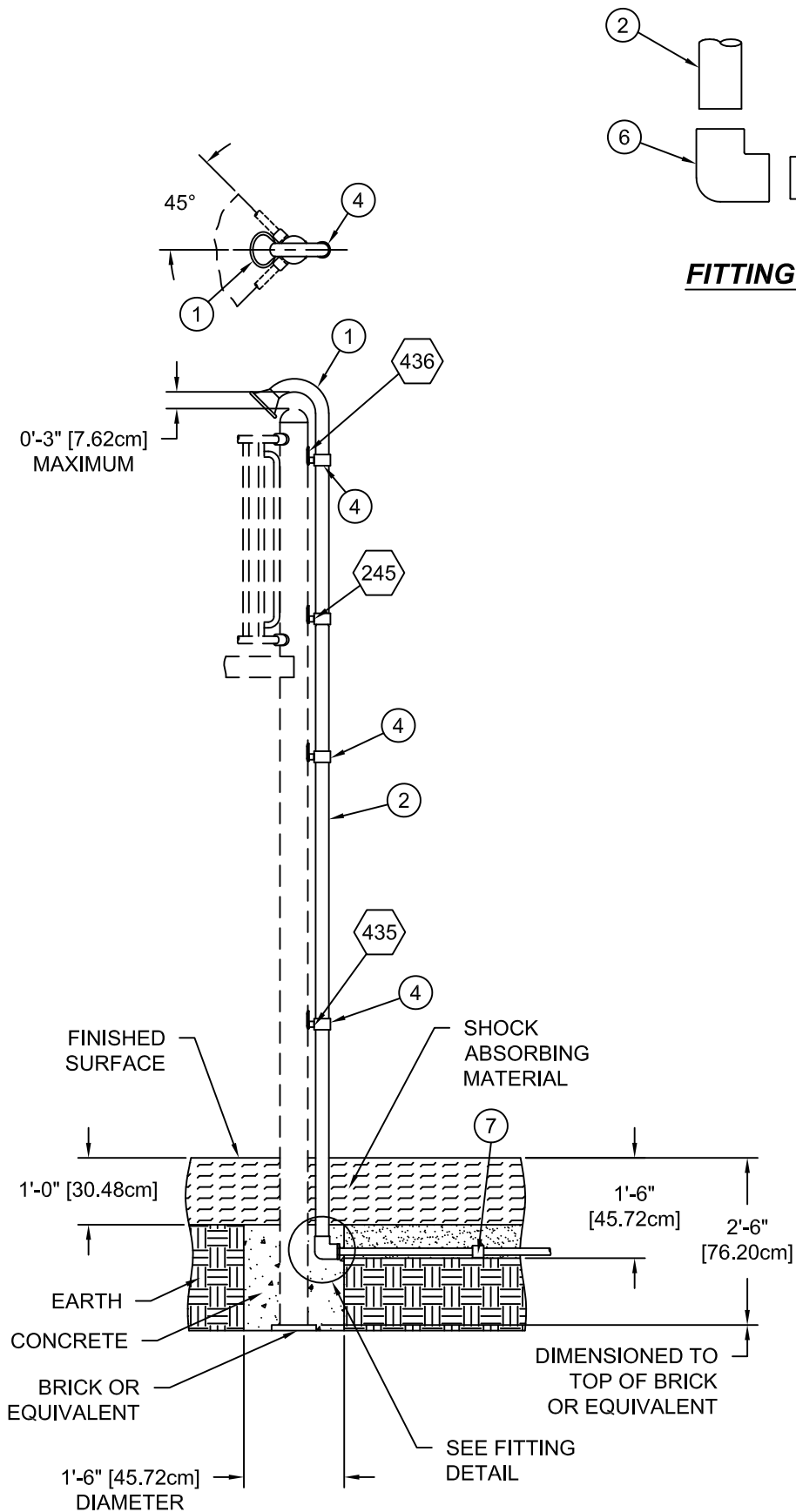


GROUND PLAN

CONCRETE REQUIRED:
.10 CUBIC YARDS
[.08 CUBIC METERS]

NOTE: SUGGESTED MINIMUM
CONCRETE RATING: 3000 PSI

NOTE: HOLE DEPTHS INDICATED ON ALL
GROUND PLANS ARE MEASURED FROM
THE FINISHED SURFACE. SEE ASSEMBLY
DRAWINGS. ALL FOOTING DIMENSIONS
ARE BASED ON LEVEL FINISHED SURFACE.



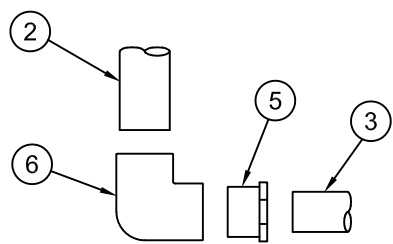
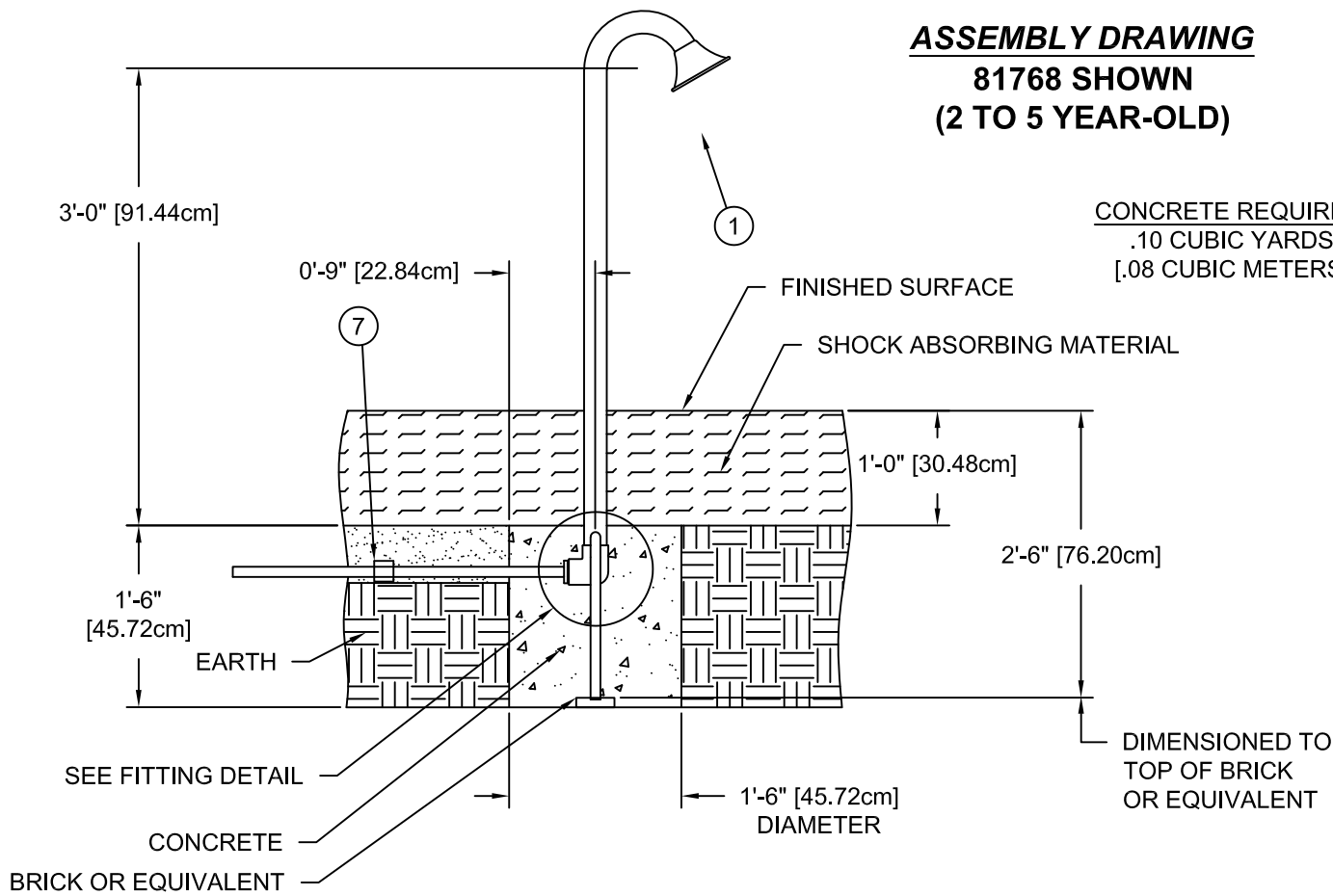
FITTING DETAIL

ASSEMBLY DRAWING

**81678 SHOWN
(2-12 YR. OLD)**

ASSEMBLY DRAWING
81768 SHOWN
(2 TO 5 YEAR-OLD)

CONCRETE REQUIRED:
 .10 CUBIC YARDS
 [.08 CUBIC METERS]



FITTING DETAIL

TALK TUBE SECTION LENGTHS

* MEASURED FROM SWAGED END
TO OPPOSITE END OF PIPE.

PRODUCT NO.	DECK HEIGHT	LENGTH OF TALK TUBE SECTION (NON-SWAGED END) TO BE REMOVED IN FIELD	FINAL TALK TUBE SECTION LENGTHS
81675	0'-6"	12" LG.	36 1/2" LG.
	1'-0"	12" LG.	36 1/2" LG.
	1'-6"	NO CUTTING REQUIRED	48 1/2" LG.
	2'-0"	NO CUTTING REQUIRED	48 1/2" LG.
81676	2'-6"	12" LG.	60 1/2" LG.
	3'-0"	12" LG.	60 1/2" LG.
	3'-6"	NO CUTTING REQUIRED	72 1/2" LG.
	4'-0"	NO CUTTING REQUIRED	72 1/2" LG.
81677	4'-6"	12" LG.	84 1/2" LG.
	5'-0"	12" LG.	84 1/2" LG.
	5'-6"	NO CUTTING REQUIRED	96 1/2" LG.
	6'-0"	NO CUTTING REQUIRED	96 1/2" LG.
81678	6'-6"	12" LG.	108 1/2" LG.
	7'-0"	12" LG.	108 1/2" LG.
	7'-6"	NO CUTTING REQUIRED	120 1/2" LG.
	8'-0"	NO CUTTING REQUIRED	120 1/2" LG.

PARTS LIST

REF. NO.	DESCRIPTION	NO. REQ'D.					PART NUMBER
		81675	81676	81677	81678	81768	
1	Funnel Weld Assembly	1	1	1	1	0	165273
1	Funnel Weld Assembly	0	0	0	0	1	206446
2	Pipe, 48-1/2" Lg. (for 0'-6" to 2'-0" Deck)	1	0	0	0	0	159378
2	Pipe, 72-1/2" Lg. (for 2'-6" to 4'-0" Deck)	0	1	0	0	0	165585
2	Pipe, 96-1/2" Lg. (for 4'-6" to 6'-0" Deck)	0	0	1	0	0	159412
2	Pipe, 120-1/2" Lg. (for 6'-6" to 8'-0" Deck)	0	0	0	1	0	165587
3	1-1/4" PVC Pipe (10' Lg.)	2	2	2	2	2	147221
4	Connection Sleeve Assembly	3	3	4	4	0	176453*
	<i>Hardware Complete</i>	1	1	0	0	0	166070
	<i>Hardware Complete</i>	0	0	1	1	0	166071
	<i>Hardware Complete</i>	0	0	0	0	1	166072
5	2" x 1-1/4" PVC Bushing	1	1	1	1	1	141216*
6	2" PVC 90° Elbow	1	1	1	1	1	141214*
7	1-1/4" PVC Coupling	2	2	2	2	2	147222*
	4 Oz. Can PVC Glue	1	1	1	1	1	147199*
	Pop Rivet	6	6	8	8	0	140068*
	3/8" x 1 1/4" P.B.H.C.S. w/ Patch	3	3	4	4	0	812051*
	3/8" Lockwasher	3	3	4	4	0	817334*
	3/8" Flatwasher	0	0	0	0	0	817410*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

**Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.**

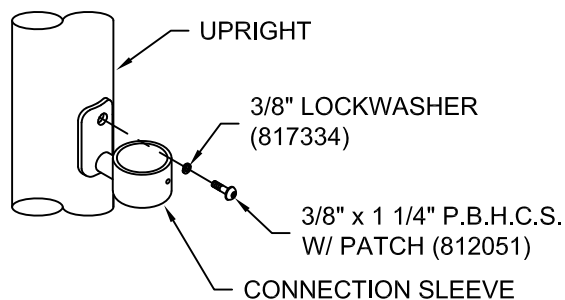
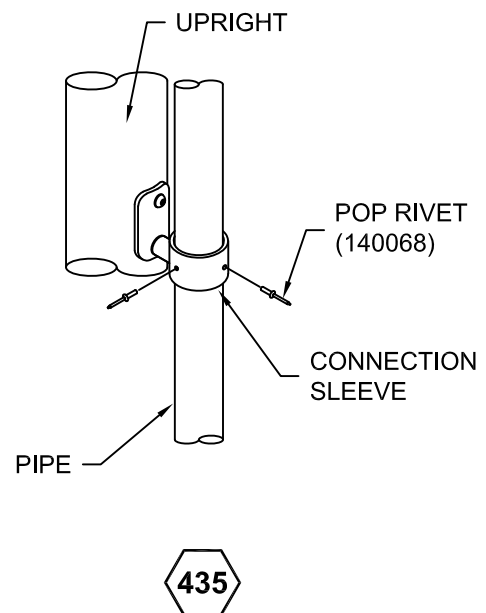
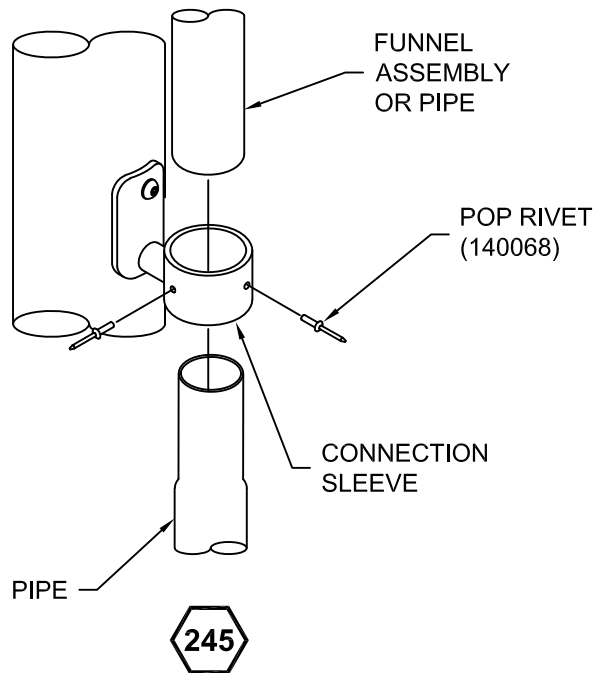
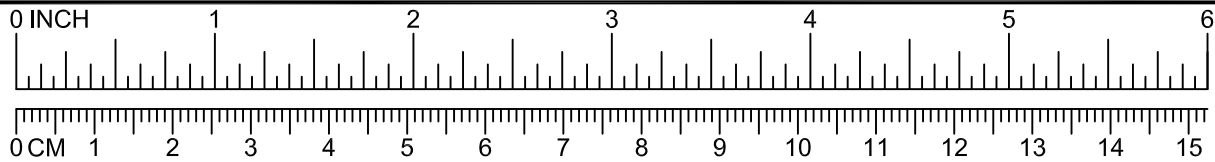
Note: Loctite (supplied by others) should be used on all threaded hardware.

DETAILS -for- 81675, 81676, 81677, 81678 & 81768

IMPORTANT

To Reduce the Risk of Clothing Entanglement in Compliance with ASTM F1487, Any Bolt End Protruding More Than Two Full Threads Beyond the Face of the Nut Shall Be Cut-Off Flush, Filed Smooth and Treated to Prevent Corrosion.

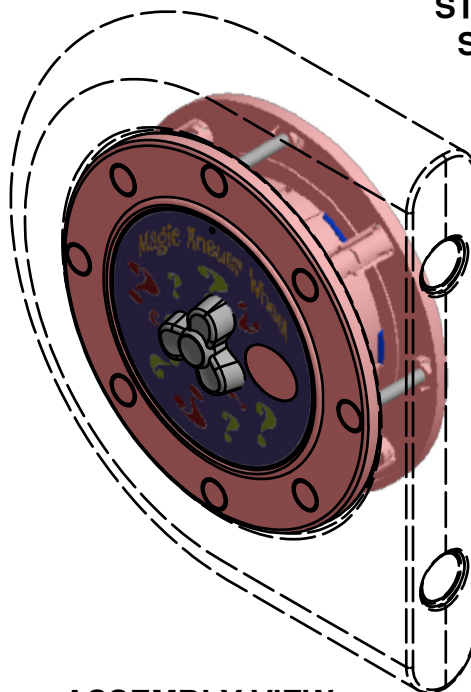
NOTE: After Assembly is Complete, Peen Tee-Nuts and Flatwashers to Match Radius of Pipe.



GIZMO ASSEMBLIES

ISSUED/REVISED: 11/15/2021

ANSWER WHEEL	4956
BUBBLE MIRROR	4957
HYPNO WHEEL	4958
MAZE WHEEL	4959
STAINED GLASS YELLOW	4960
STAINED GLASS GREEN	4961
ECHO CHAMBER	4962



ASSEMBLY VIEW
4956 SHOWN
OTHERS SIMILAR

Parts List								
DESCRIPTION	4956	4957	4958	4959	4960	4961	4962	PART NUMBER
ANSWER WHEEL	1	0	0	0	0	0	0	219419
BUBBLE MIRROR	0	1	0	0	0	0	0	219420
HYPNO WHEEL	0	0	1	0	0	0	0	219421
MAZE WHEEL	0	0	0	1	0	0	0	219422
STAINED GLASS YELLOW	0	0	0	0	1	0	0	219423
STAINED GLASS GREEN	0	0	0	0	0	1	0	219725
ECHO CHAMBER	0	0	0	0	0	0	1	220825

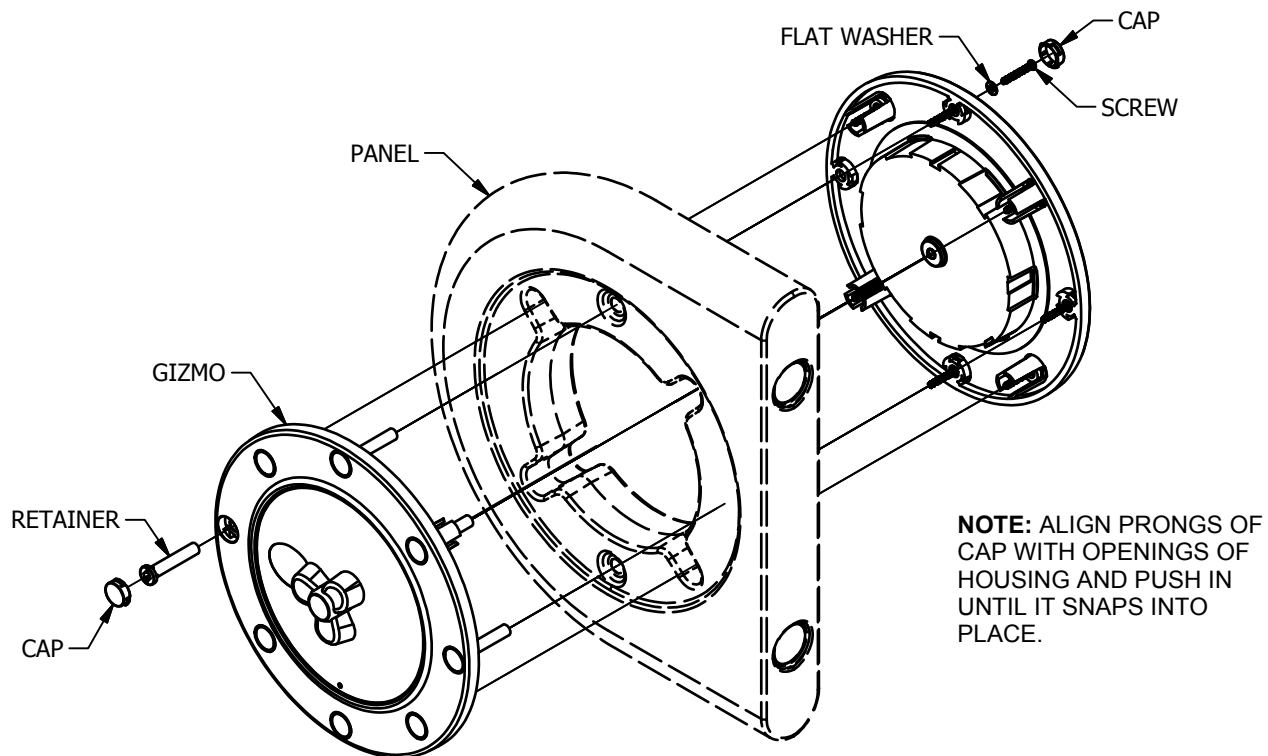
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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

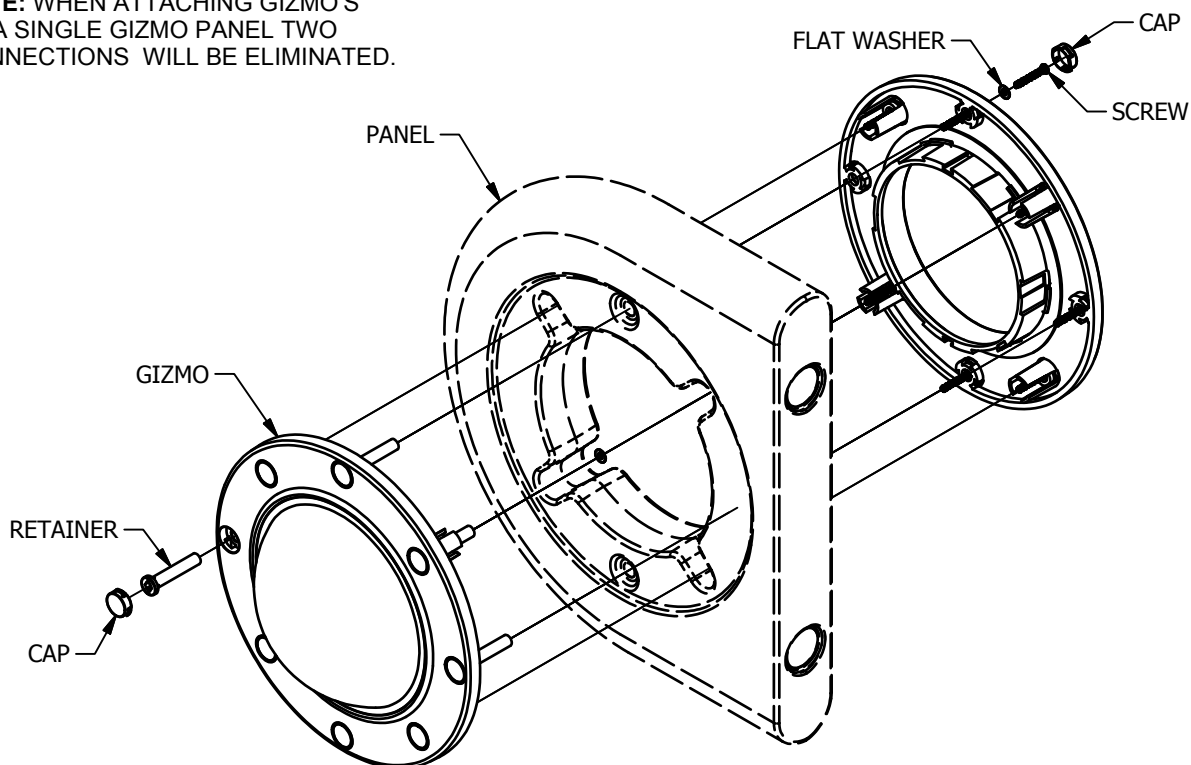
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more that two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.



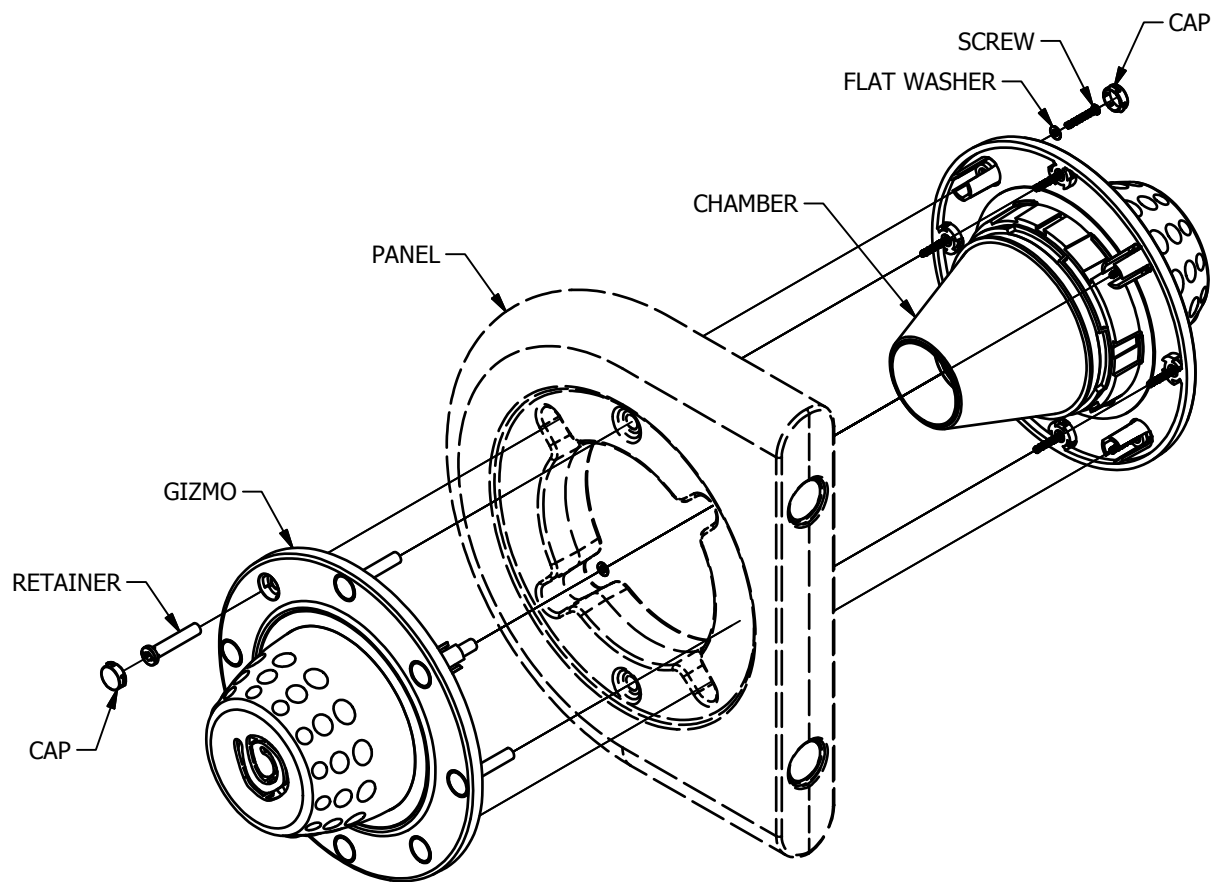
DETAIL VIEW
4956, 4958, AND 4959

4956 ONLY: MOUNT ANSWER WHEEL SO ANSWER IN WINDOW IS ON THE RIGHT SIDE.

NOTE: WHEN ATTACHING GIZMO'S TO A SINGLE GIZMO PANEL TWO CONNECTIONS WILL BE ELIMINATED.



DETAIL VIEW
4957, 4960, AND 4961



NOTE: WHEN ATTACHING GIZMO'S TO A SINGLE GIZMO PANEL TWO CONNECTIONS WILL BE ELIMINATED.

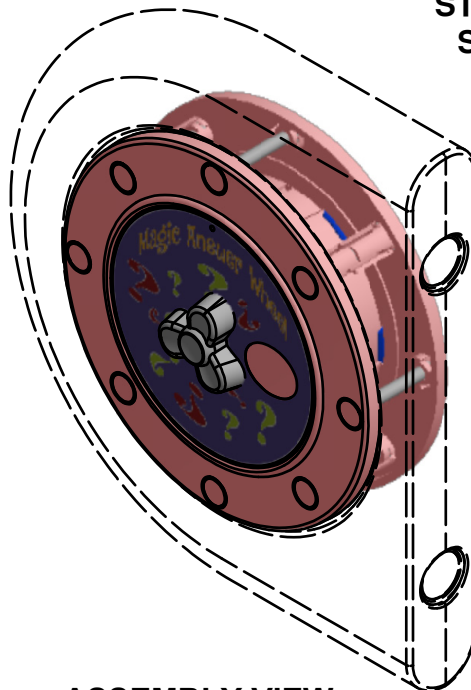
DETAIL VIEW
4962 ONLY

NOTE: ALIGN PRONGS OF CAP WITH OPENINGS OF HOUSING AND PUSH IN UNTIL IT SNAPS INTO PLACE.

GIZMO ASSEMBLIES

ISSUED/REVISED: 11/15/2021

ANSWER WHEEL	4956
BUBBLE MIRROR	4957
HYPNO WHEEL	4958
MAZE WHEEL	4959
STAINED GLASS YELLOW	4960
STAINED GLASS GREEN	4961
ECHO CHAMBER	4962



ASSEMBLY VIEW
4956 SHOWN
OTHERS SIMILAR

Parts List								
DESCRIPTION	4956	4957	4958	4959	4960	4961	4962	PART NUMBER
ANSWER WHEEL	1	0	0	0	0	0	0	219419
BUBBLE MIRROR	0	1	0	0	0	0	0	219420
HYPNO WHEEL	0	0	1	0	0	0	0	219421
MAZE WHEEL	0	0	0	1	0	0	0	219422
STAINED GLASS YELLOW	0	0	0	0	1	0	0	219423
STAINED GLASS GREEN	0	0	0	0	0	1	0	219725
ECHO CHAMBER	0	0	0	0	0	0	1	220825

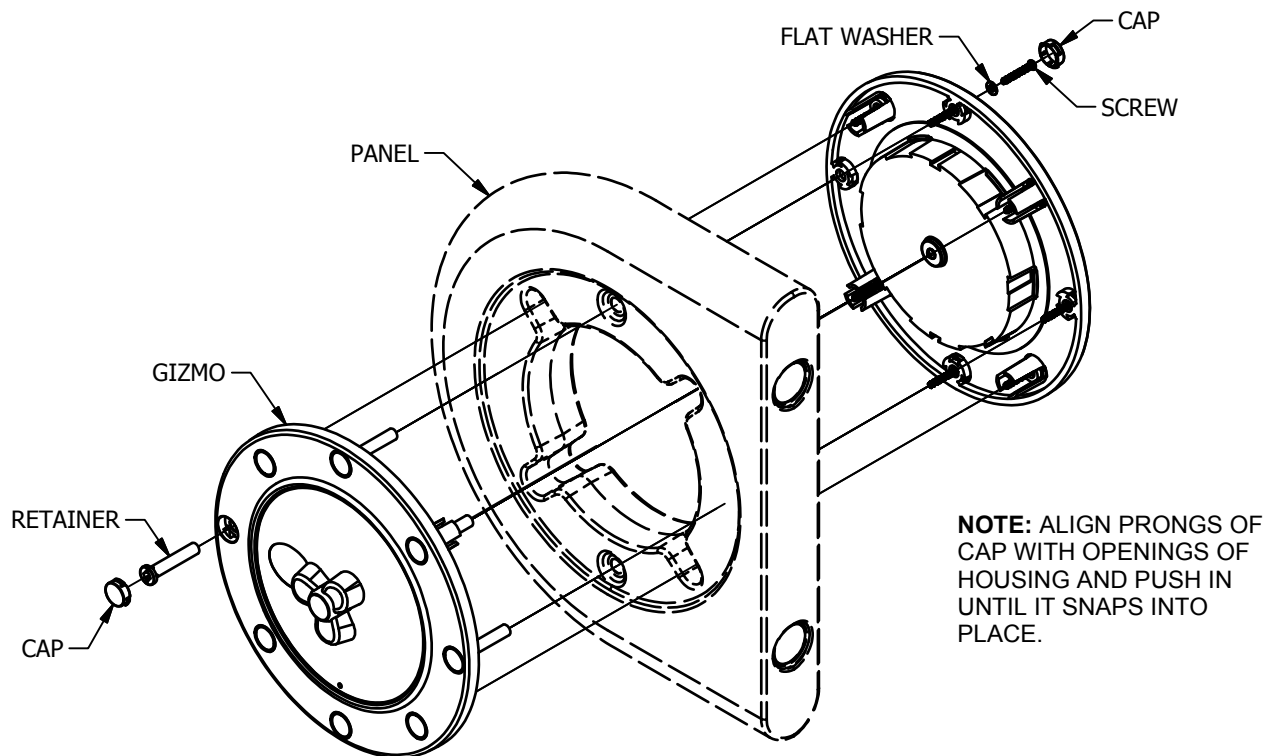
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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

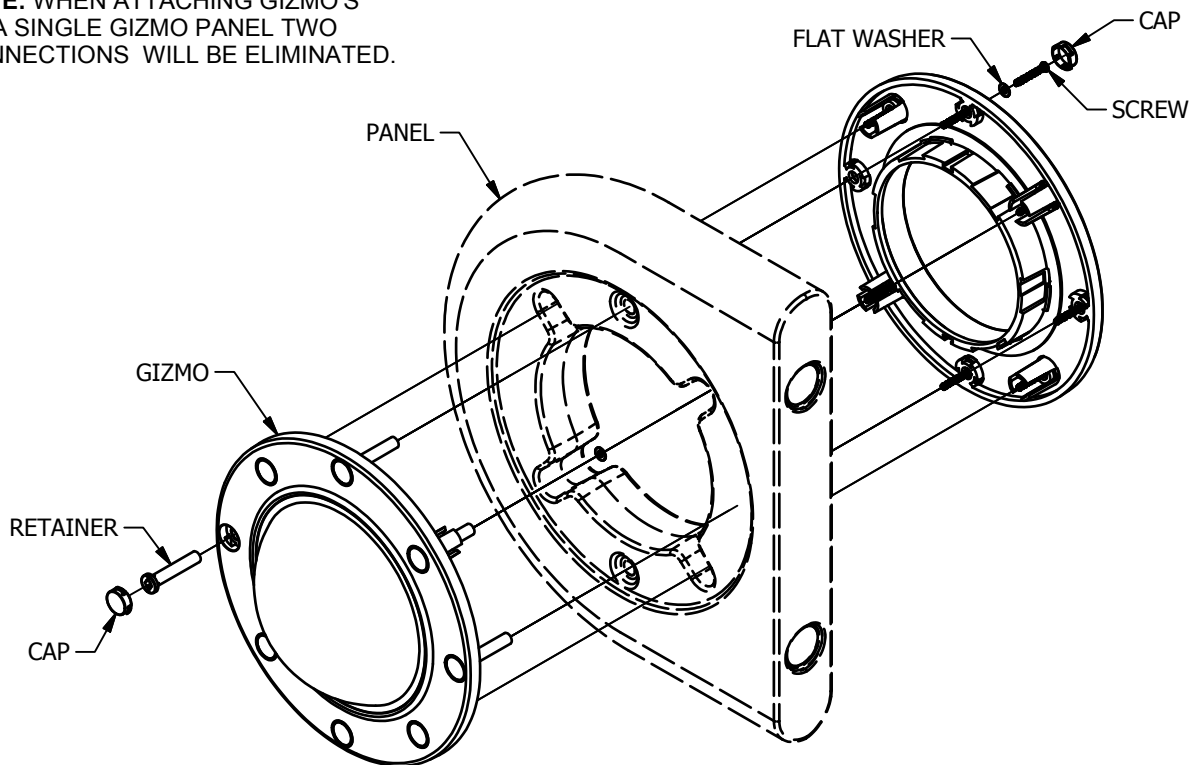
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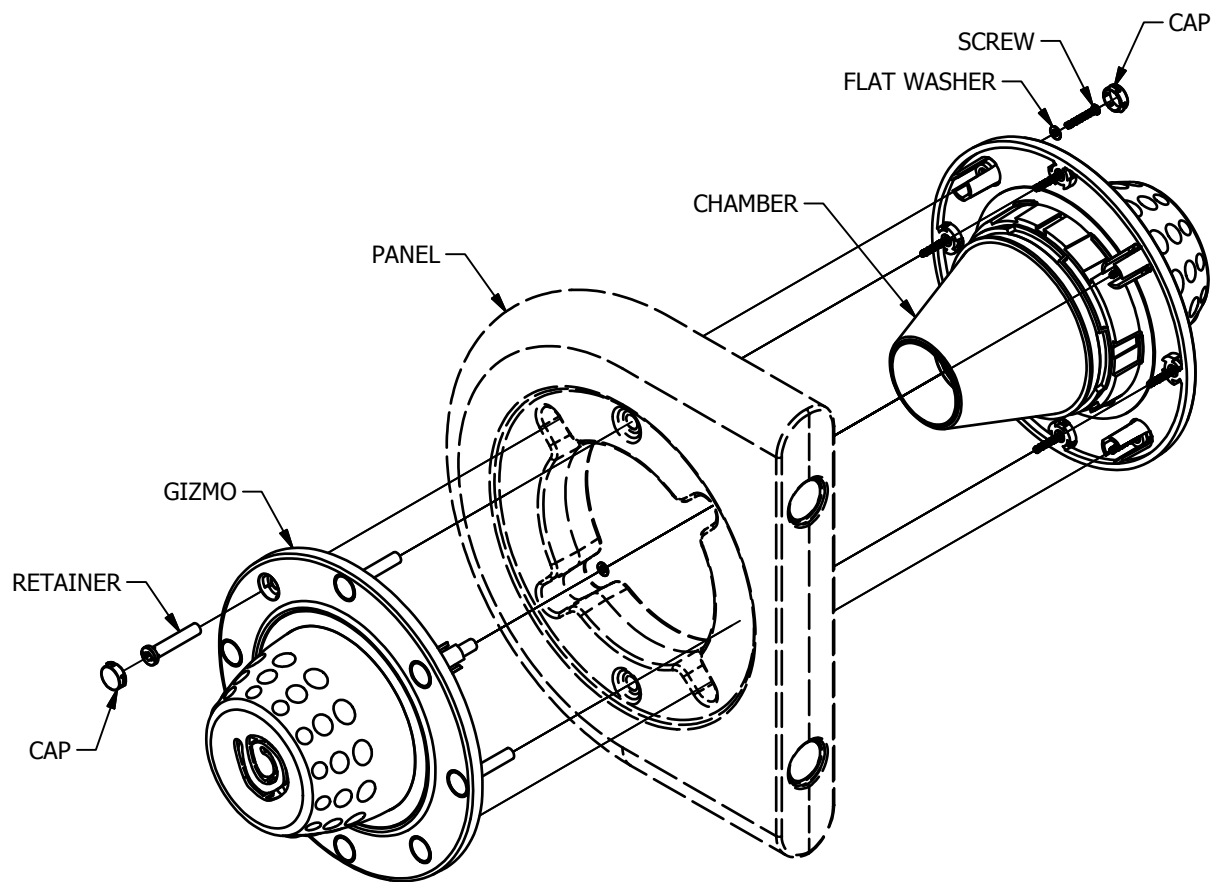
DETAIL VIEW
4956, 4958, AND 4959

4956 ONLY: MOUNT ANSWER WHEEL SO ANSWER IN WINDOW IS ON THE RIGHT SIDE.

NOTE: WHEN ATTACHING GIZMO'S TO A SINGLE GIZMO PANEL TWO CONNECTIONS WILL BE ELIMINATED.



DETAIL VIEW
4957, 4960, AND 4961



NOTE: WHEN ATTACHING GIZMO'S TO A SINGLE GIZMO PANEL TWO CONNECTIONS WILL BE ELIMINATED.

DETAIL VIEW
4962 ONLY

NOTE: ALIGN PRONGS OF CAP WITH OPENINGS OF HOUSING AND PUSH IN UNTIL IT SNAPS INTO PLACE.

PowerScape®



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 01/23/2023

16712 RAMP ATTACHMENT

⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE



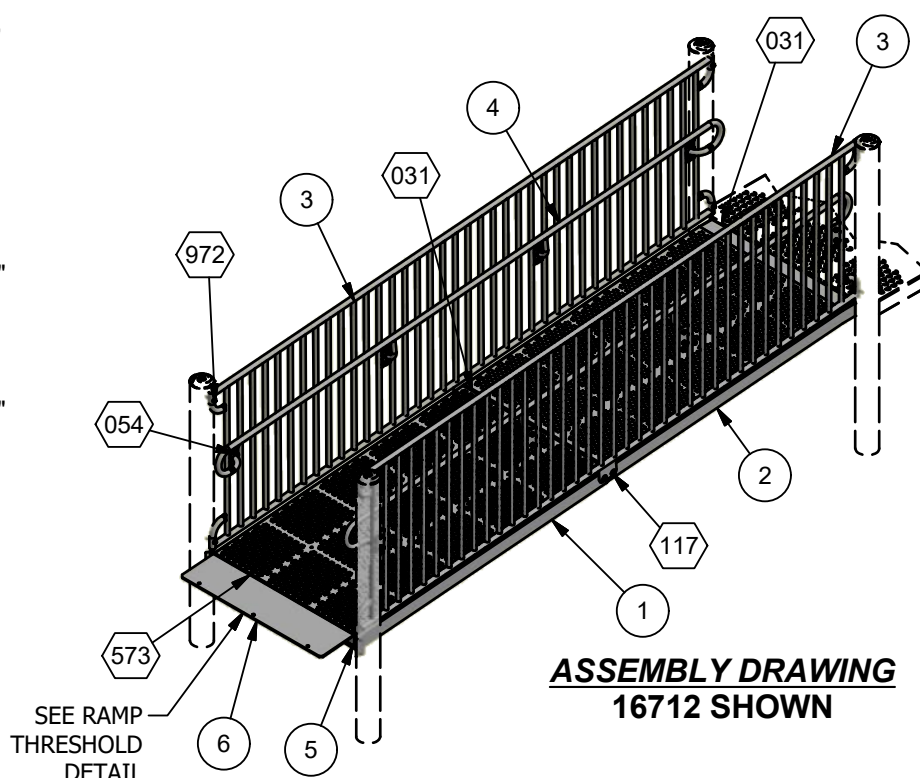
16712
1'-0" THRU 4'-0"
90673
90678
90679
1'-0" THRU 2'-6"

NOTE: USING A DIGITAL LEVEL CHECK
THE ANGLE OF RAMP PRIOR TO POURING
CONCRETE. THE ANGLE SHALL NOT EXCEED
4.75°(8.3% SLOPE) TO MEET ADA GUIDELINES

BARRIER	16712
1' GUARDRAIL	90673
1'-6" & 2' GUARDRAIL	90678
2'-6" & 3' GUARDRAIL	90679
3'-6" & 4' GUARDRAIL	90680

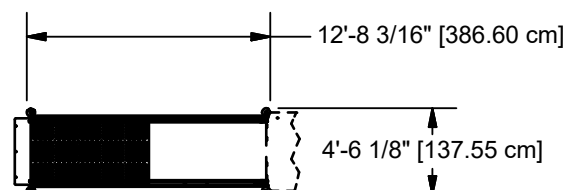


16712
1'-0" THRU 4'-0"
90673
90678
90679
90680
1'-0" THRU 4'-0"

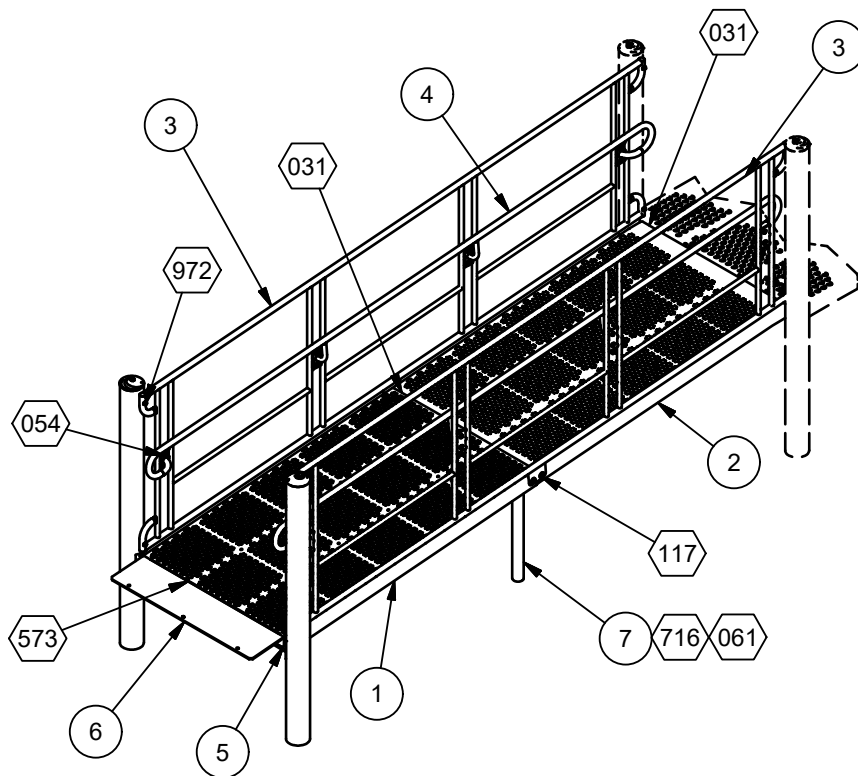


INSTALLATION INSTRUCTIONS

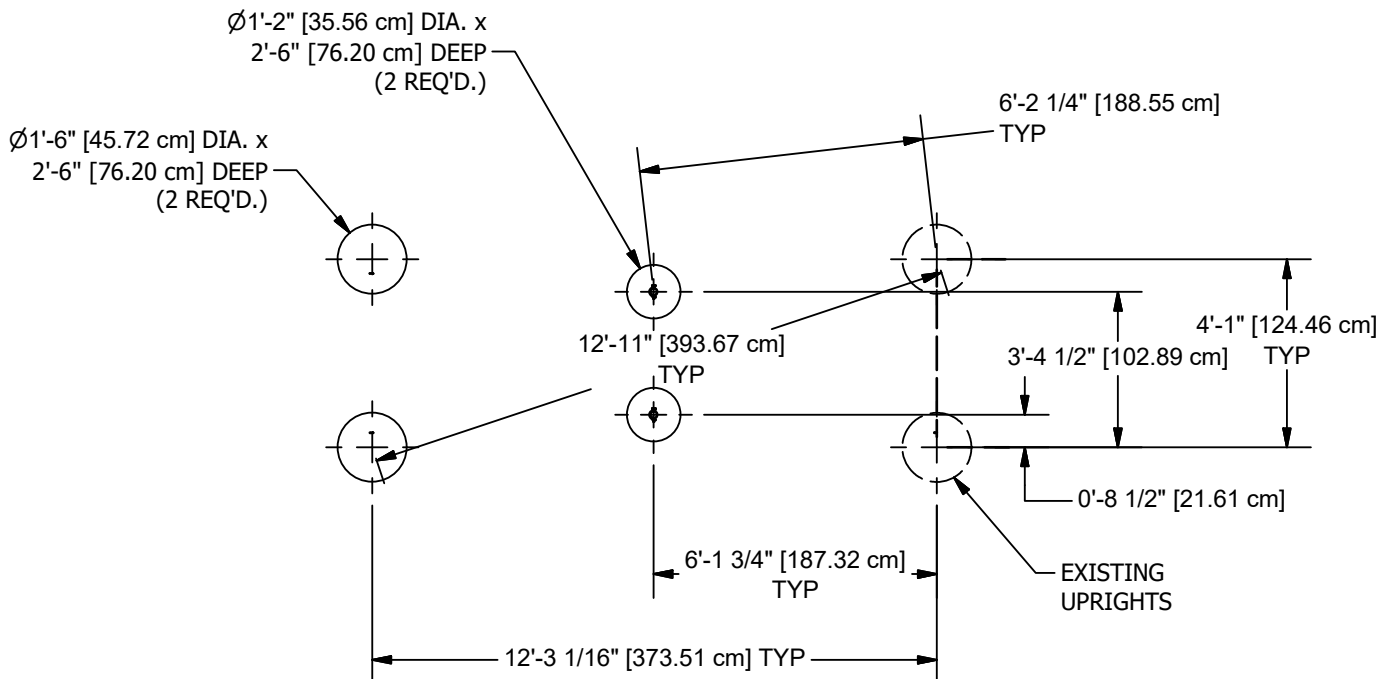
1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all the instructions during assembly.
2. Assemble parts as shown in the *Assembly Drawing*. Refer to the assembly details for the specific hardware required in each connection.
3. Fasten deck/ramp together using (4) Detail 031 per connection. Note: Remove vinyl from holes, ream with 1/2" bit.



TOP VIEW



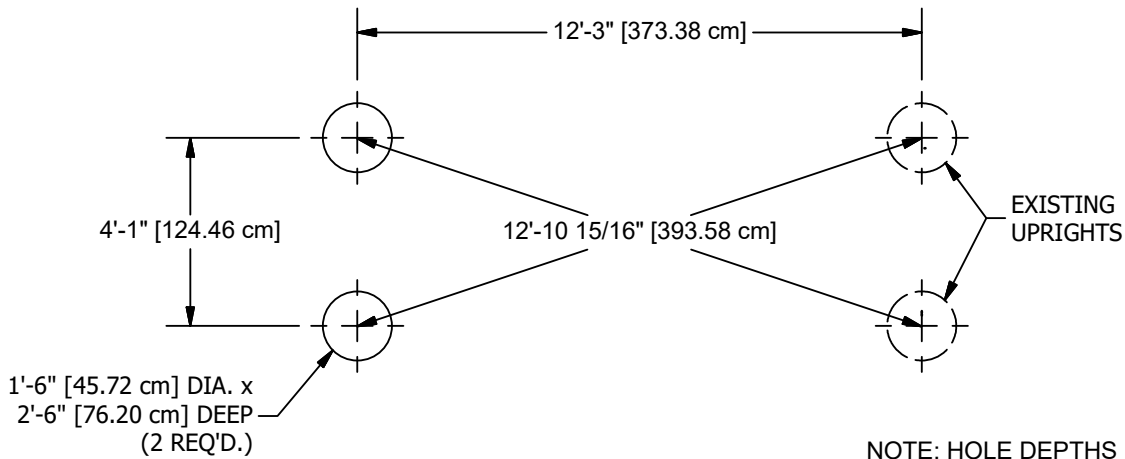
**ASSEMBLY DRAWING
90679 SHOWN**



CONCRETE REQUIRED
.32 CUBIC YARDS
[.24 CUBIC METERS]

**GROUND PLAN
90673, 90678, 90679 & 90680**

NOTE: HOLE DEPTHS INDICATED ON ALL
GROUND PLANS ARE MEASURED FROM
THE FINISHED SURFACE. SEE DETAIL
032. ALL FOOTING DIMENSIONS ARE
BASED ON LEVEL FINISHED SURFACE.



CONCRETE REQUIRED
.20 CUBIC YARDS
[.15 CUBIC METERS]

GROUND PLAN **16712**

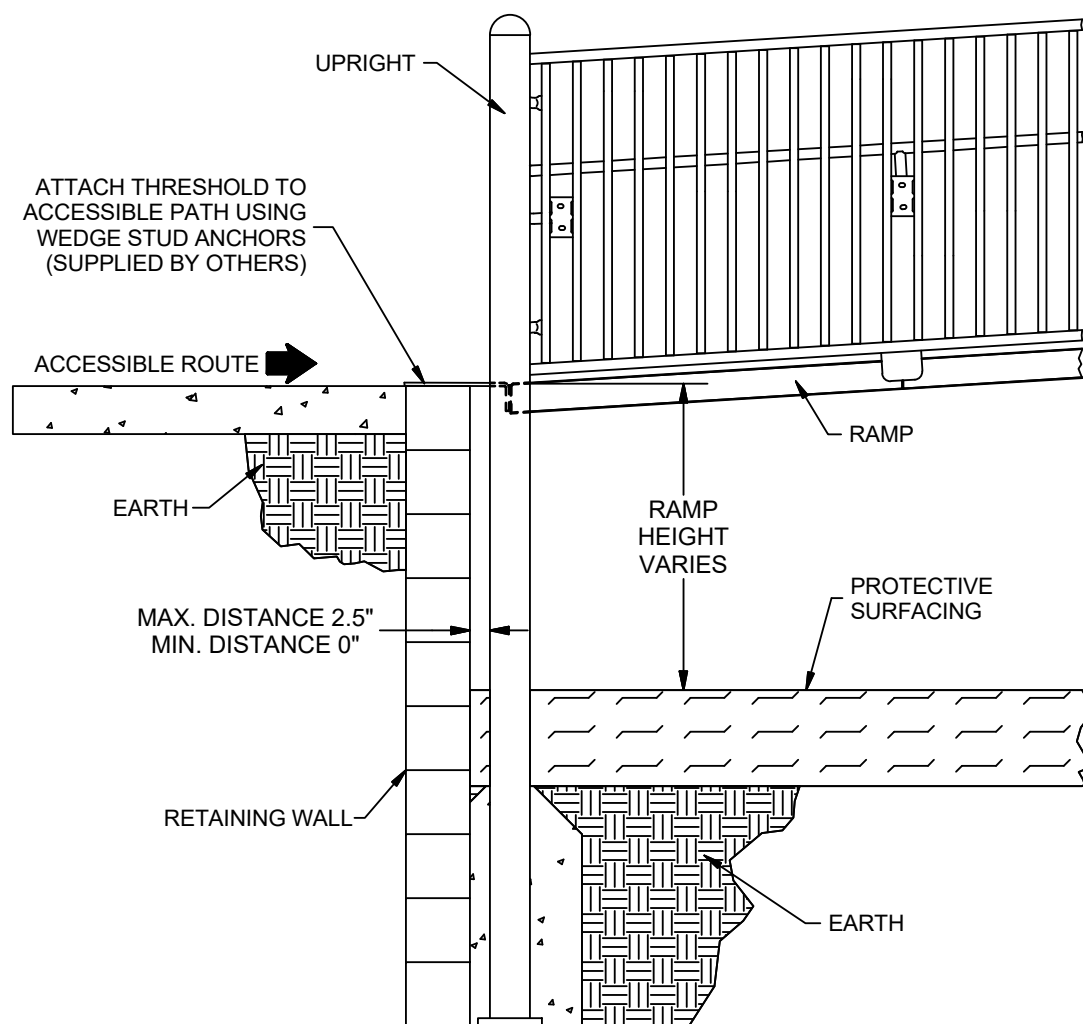
NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

Parts List							
REF.	DESCRIPTION	16712	90673	90678	90679	90680	PART NUMBER
1	RAMP SECTION	1	1	1	1	1	164045
2	RAMP SECTION	1	1	1	1	1	164042
3	RAMP BARRIER	2	0	0	0	0	176711
3	RAMP GUARDRAIL WELD ASS'Y	0	2	2	2	2	205003
4	HAND HOLD	2	2	2	2	2	176728
5	RAMP SUPPORT	1	1	1	1	1	176659
6	THRESHOLD	1	1	1	1	1	179702
7	GROUND SUPPORT 1'	0	2	0	0	0	205412
7	GROUND SUPPORT 2'	0	0	2	0	0	205414
7	GROUND SUPPORT 3'	0	0	0	2	0	205416
7	GROUND SUPPORT 4'	0	0	0	0	2	205418
	HARDWARE COMPLETE	1	0	0	0	0	207090
	HARDWARE COMPLETE	0	1	1	1	1	205432
	3/8" x 3/4" P.B.H.C.S. w/PATCH	12	12	12	12	12	812052*
	3/8" x 1" P.B.H.C.S. w/PATCH	20	20	20	20	20	812050*
	3/8" x 1 1/4" B.H.C.S.	4	4	4	4	4	811051*
	3/8" x 2 1/2" P.B.H.C.S. w/PATCH	8	8	8	8	8	812057*
	3/8" x 3 1/2" HEX HEAD BOLT	0	2	2	2	2	801013*
	3/8" FLAT WASHER	40	40	40	40	40	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	16	16	16	16	16	817424*
	3/8" LOCK WASHER	48	48	48	48	48	817334*
	3/8" ACORN NUT	16	16	16	16	16	804002*
	3/8" T-NUT	16	16	16	16	16	804556*
	3/8" HEX NUT	0	2	2	2	2	804053*
	6" EXTNSION	0	2	2	2	2	151080*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.



ELEVATION VIEW

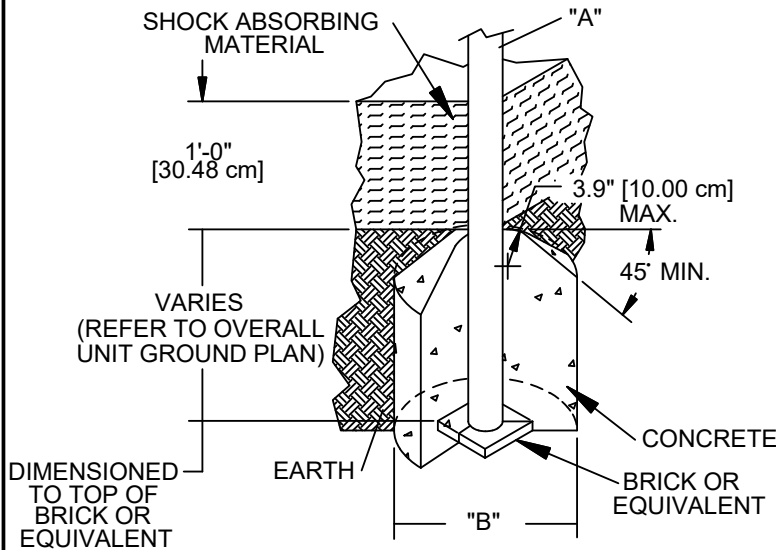
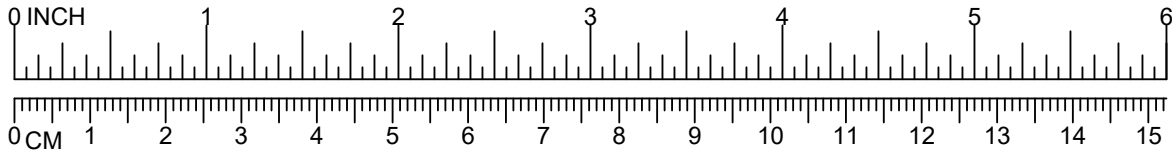
DETAILS -for- **16712, 90673, 90678, 90679 AND 90680**

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



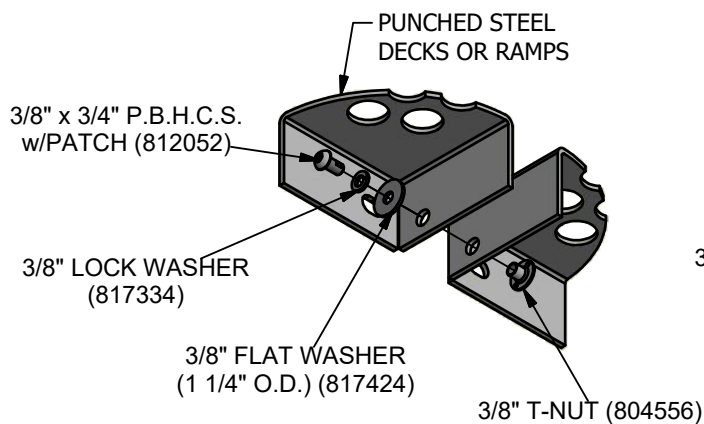
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

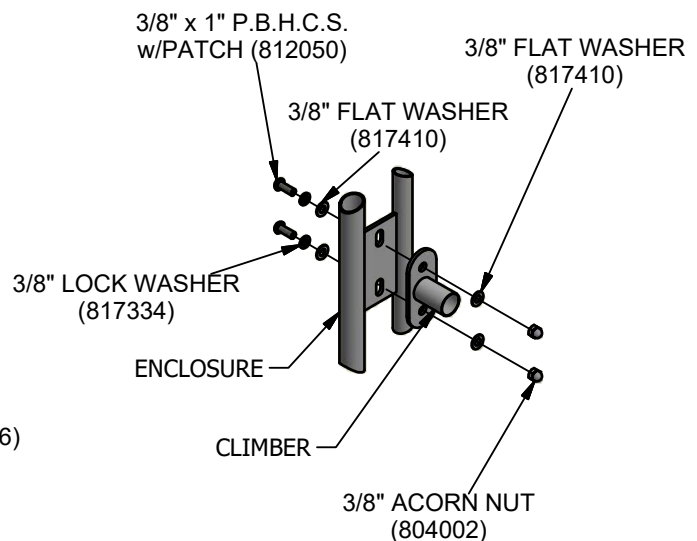
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



031



054

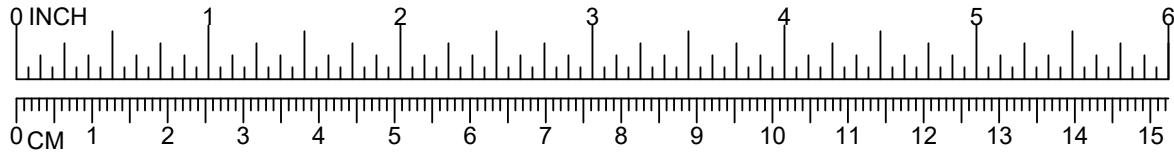
DETAILS -for- **16712, 90673, 90678, 90679 AND 90680**

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

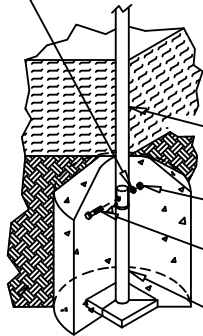
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm]	3/8" x 4" HEX HEAD (801015)

3/8" LOCKWASHER
(817334)



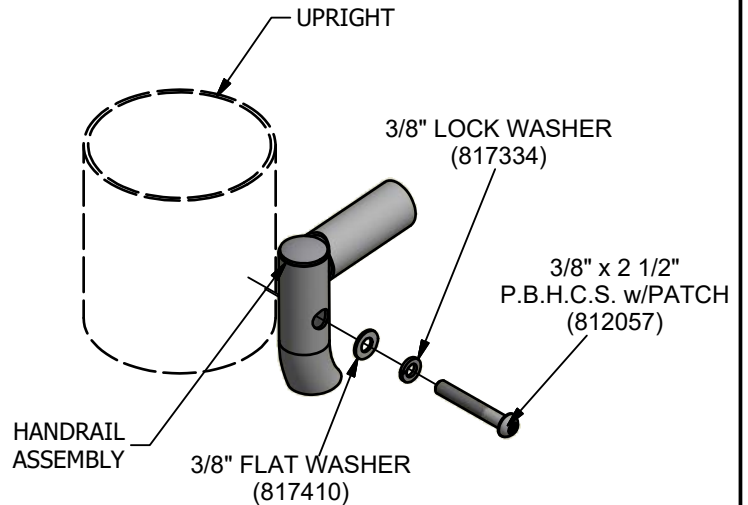
LEG, SEE CHART
FOR SIZE

3/8" HEX NUT
(804053)

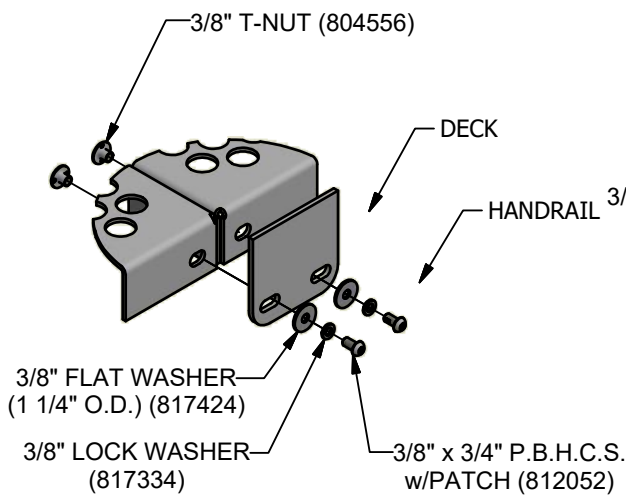
SEE CHART
FOR SIZE

EXTENSION

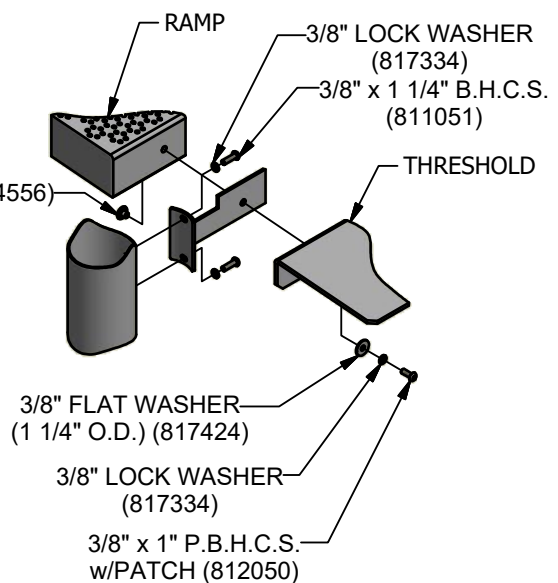
061



972



117



573

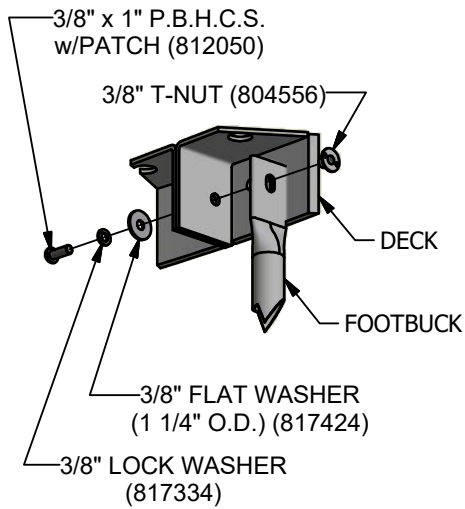
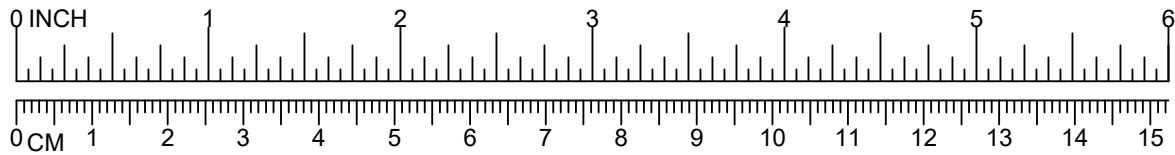
DETAILS -for- 16712, 90673, 90678, 90679 AND 90680

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



716

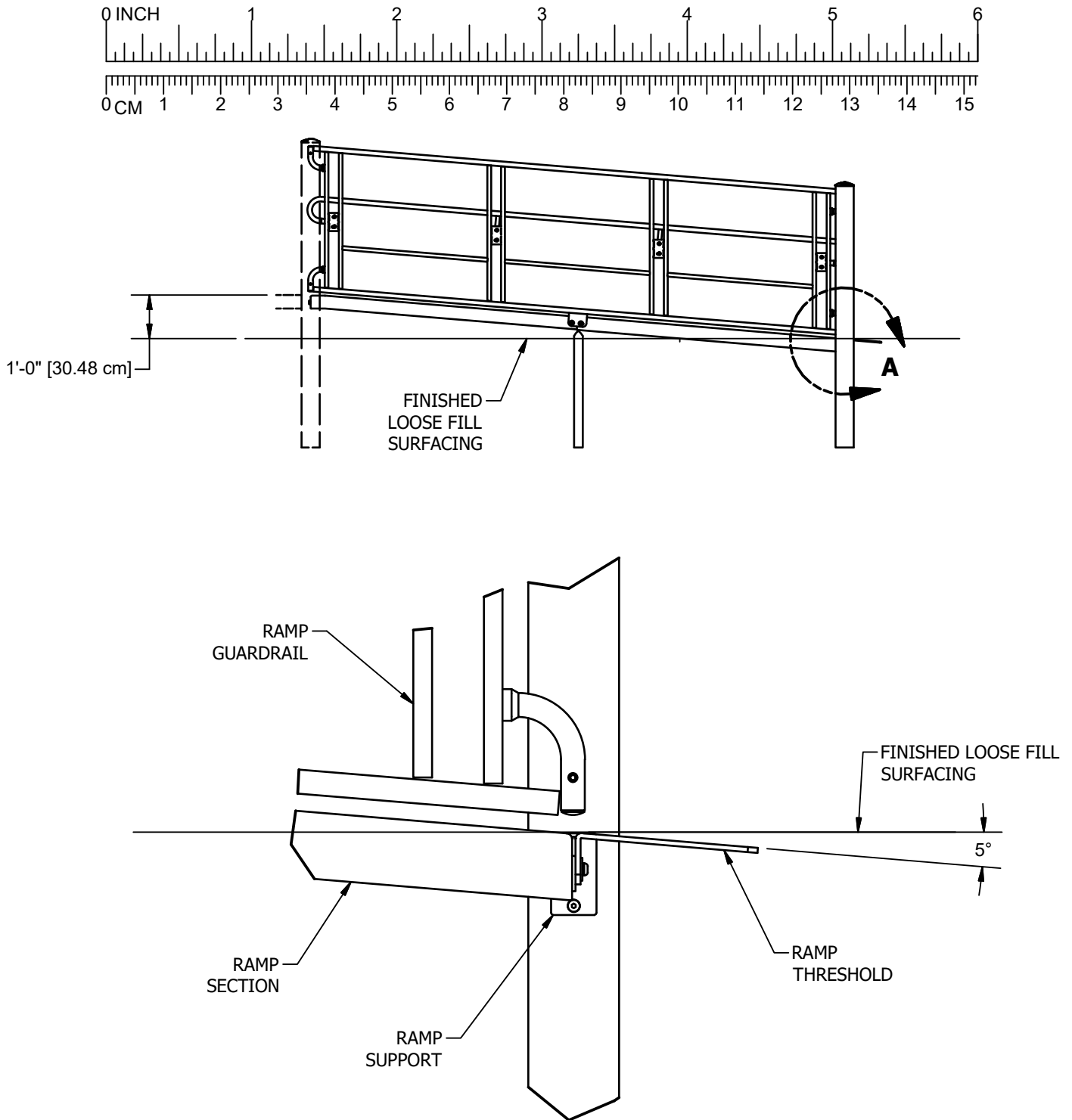
DETAILS -for- 16712,90673,90678,90679 AND 90680

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.



NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



RAMP THRESHOLD DETAIL
NEAR UPRIGHT REMOVED
FOR CLARITY

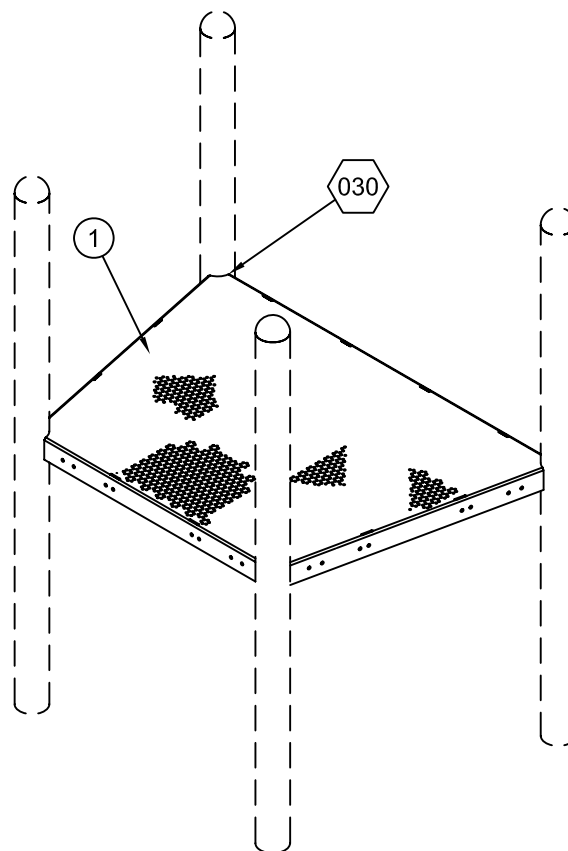
TRAPEZOID DECK (ADA)

-  = INSTALLATION
DETAIL
 = PARTS LIST
REFERENCE

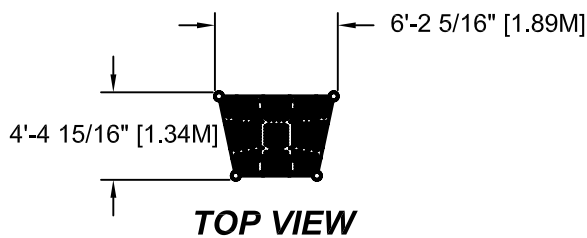
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *INSTALLER INSTRUCTIONS* in the installation booklet; follow all the instructions during installation.
2. Dig ground holes per Ground Plan. See system topview for quantity.
3. Attach deck to uprights using (1) Detail 030 per upright.
4. Loctite (supplied by others) should be used on all threaded hardware.
5. When decks are at the same height, fasten together using (2) Detail 031.

NOTE: Remove vinyl from the two inside holes, with 1/2" bit.



ASSEMBLY DRAWING

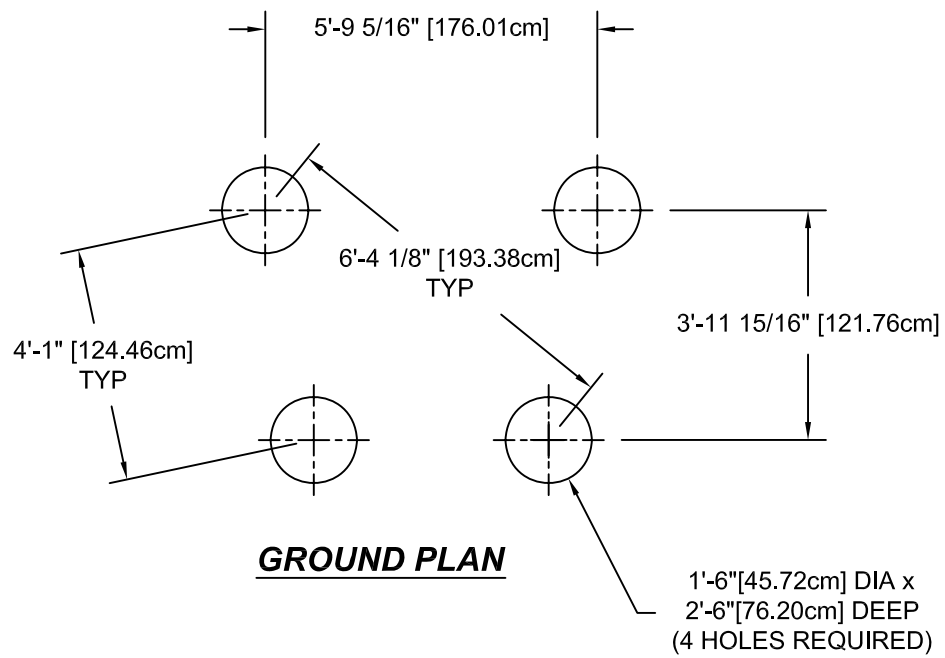


PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
1	Trapezoid Deck	1	200245
	Hardware Complete	1	200248
	3/8" x 3/4" P.B.H.C.S. w/Patch	8	812052
	3/8" x 1 1/2" B.H.C.S.	8	810053
	3/8" Tee Nut	8	804556
	3/8" Lockwasher	8	817334
	3/8" Flatwasher (1 1/4" O.D.)	16	817424

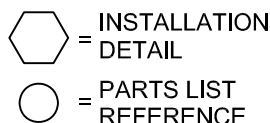
*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.



CONCRETE REQUIRED
 .66 CUBIC YARDS
 [.50 CUBIC METERS]

Note: Hole Depths Indicated on All Ground Plans are Measured From The Finished Surface. See Detail 032. All Footing Dimensions are Based on Level Finished Surface.



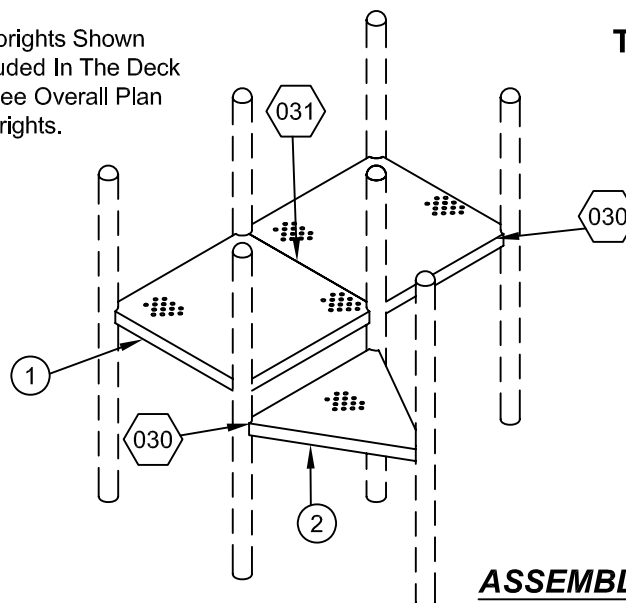
Note: The Uprights Shown
Are Not Included In The Deck
Packages. See Overall Plan
View For Uprights.

SQUARE 80000
TRIANGLE 80001

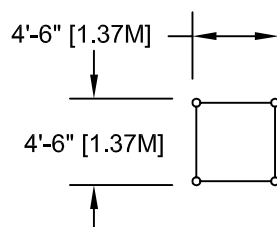
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed *Installer Instructions* in the installation booklet; follow all the instructions during assembly.
2. Dig ground holes per Ground Plan. See system topview for quantity.
3. Attach deck to uprights using (1) Detail 030 per upright.
4. Loctite (supplied by others) should be used on all threaded hardware.
5. When decks are at the same height as shown in Assembly Drawing, fasten together using (2) Detail 031.

NOTE: Remove vinyl from the two inside holes, with 1/2" bit.

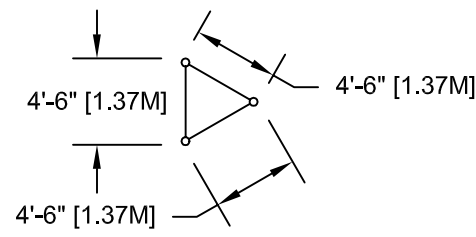


ASSEMBLY DRAWING



80000

TOP VIEWS

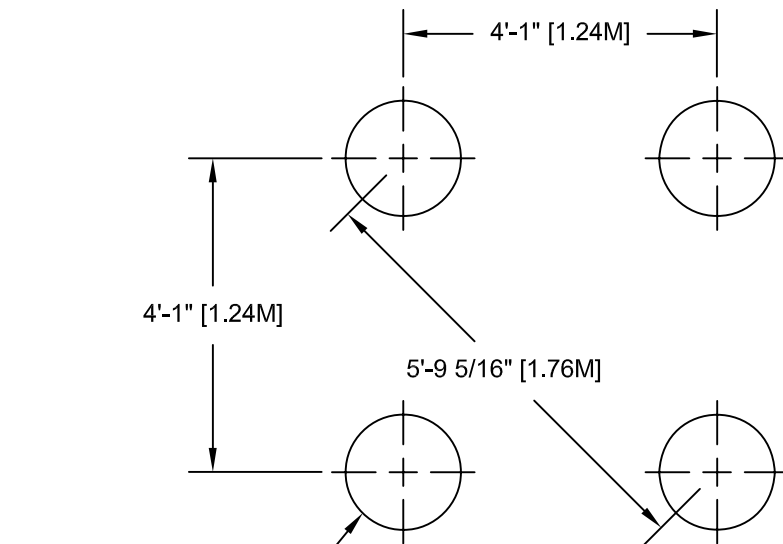


80001

PARTS LIST

REF NO.	DESCRIPTION	80000	80001	PART NUMBER
1	Punched Deck, Square	1	0	163307
2	Punched Deck, Triangle	0	1	163317
	Hardware Complete	1	0	161254
	Hardware Complete	0	1	161255
	3/8" x 3/4" P.B.H.C.S. w/Patch	2	2	812052*
	3/8" x 1 1/2" P.B.H.C.S.	8	6	810053*
	3/8" Tee-Nut	2	2	804556*
	3/8" Lockwasher	10	8	817334*
	3/8" Flatwasher (1 1/4" O.D.)	10	8	817424*

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

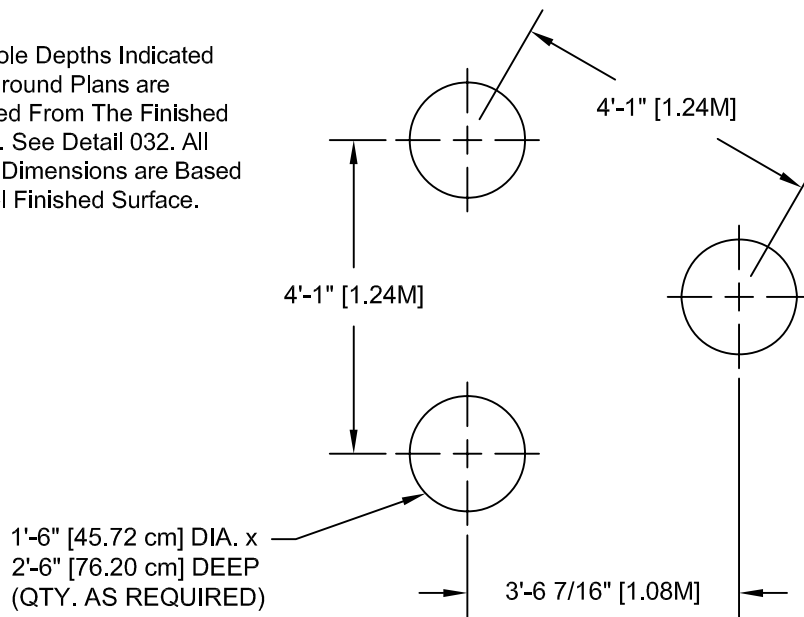


1'-6" [45.72 cm] DIA. x
2'-6" [76.20 cm] DEEP
(QTY. AS REQUIRED)
SEE DETAIL 032

80000

Concrete Required
.10 Cubic Yards [.07 cm]
Per Upright Ground Hole

Note: Hole Depths Indicated
on All Ground Plans are
Measured From The Finished
Surface. See Detail 032. All
Footing Dimensions are Based
on Level Finished Surface.



1'-6" [45.72 cm] DIA. x
2'-6" [76.20 cm] DEEP
(QTY. AS REQUIRED)
SEE DETAIL 032

80001

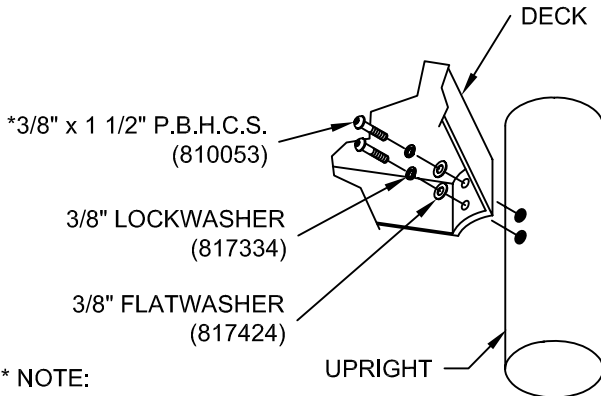
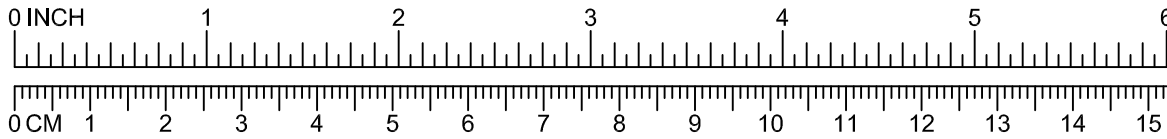
GROUND PLANS

DETAILS -for- 80000 & 80001

IMPORTANT

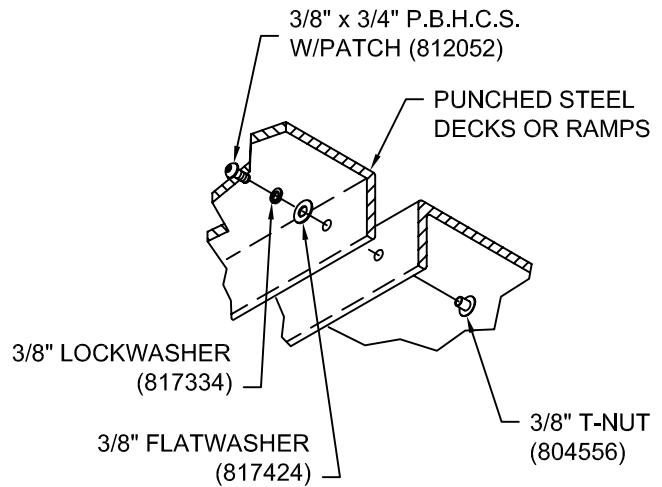
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



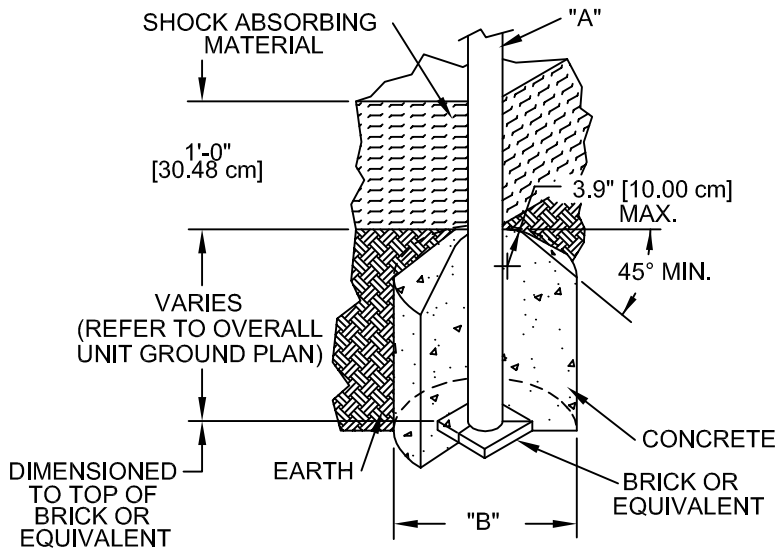
* NOTE:
BOLTS SHOULD BE TORQUED
FROM 20-25 FT. LBS. FOR
PROPER INSTALLATION.

* NOTE:
AFTER ASSEMBLY IS COMPLETED,
PEEN FLATWASHERS TO MATCH
RADIUS OF UPRIGHT.



030

031



DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI



032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

80986

CAR SOUNDS HALF PANEL

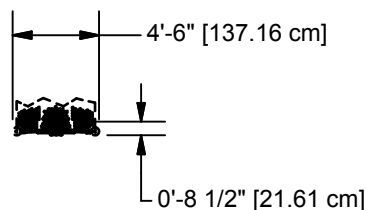
CAR SOUNDS HALF PANEL	80986
TRUCK SOUNDS HALF PANEL	80987
TRAIN SOUNDS HALF PANEL	80988
FARM SOUNDS HALF PANEL	80989

-  = INSTALLATION
DETAIL
-  = PARTS LIST
REFERENCE

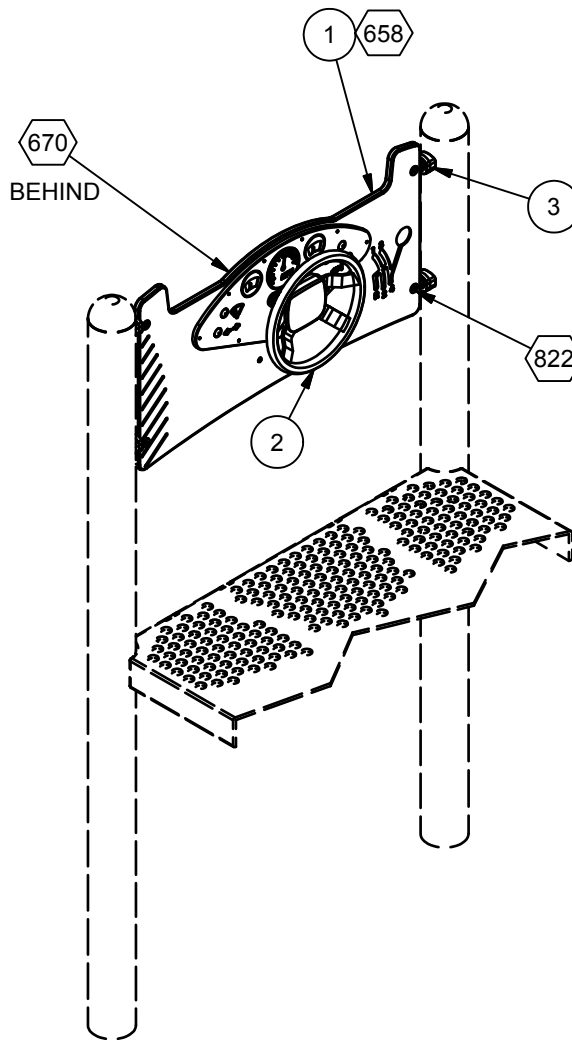


INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed **INSTALLATION INSTRUCTIONS** in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the **ASSEMBLY DRAWING**. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEW



ASSEMBLY DRAWING

Parts List						
REF.	DESCRIPTION	80986	80987	80988	80989	PART NUMBER
1	CAR SOUNDS HALF PANEL	1	0	0	0	202993
1	TRUCK SOUNDS HALF PANEL	0	1	0	0	202994
1	TRAIN SOUNDS HALF PANEL	0	0	1	0	202995
1	FARM SOUNDS HALF PANEL	0	0	0	1	202996
2	STEERING WHEEL ASSEMBLY	1	1	0	0	163235
3	PANEL ATTACHMENT TRU-LOCK	4	0	0	0	205837
3	PANEL ATTACHMENT TRU-LOCK	0	4	0	0	205838
3	PANEL ATTACHMENT TRU-LOCK	0	0	4	4	205839
	HARDWARE COMPLETE	1	1	0	0	203149
	HARDWARE COMPLETE	0	0	1	1	203150
	3/8" x 1" P.B.H.C.S. w/PATCH	4	4	4	4	812050*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	2	0	0	812056*
	3/8" x 1 3/4" HEX HEAD BOLT	4	4	4	4	801006*
	3/8" LOCKWASHER	10	10	8	8	817334*
	3/8" FLAT WASHER	2	2	0	0	817410*
	3/8" T-NUT	4	4	4	4	804556*
	3/8" ACORN NUT	2	2	0	0	804002*
	3/8" FLAT WASHER (1 1/4" O.D.)	2	2	0	0	817424*
	TRU-LOC PANEL ATTACHMENT	4				203861

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

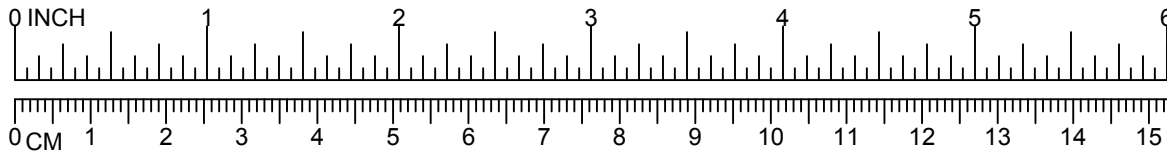
DETAILS -for- 80986, 80987, 80988, AND 80989

IMPORTANT

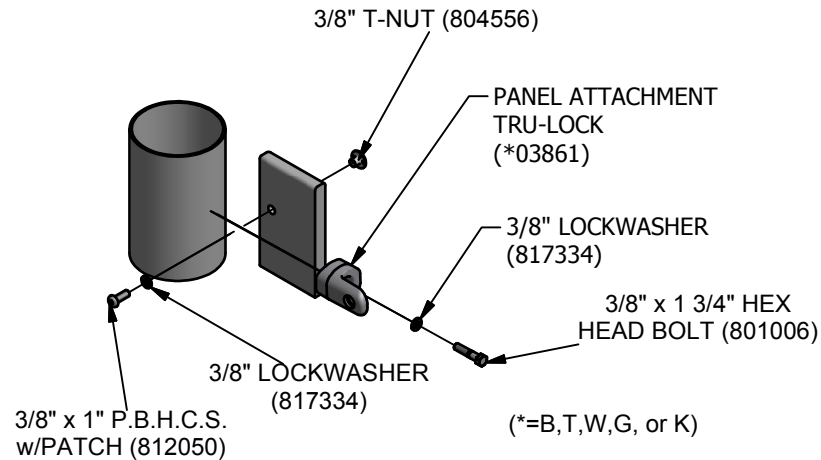
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

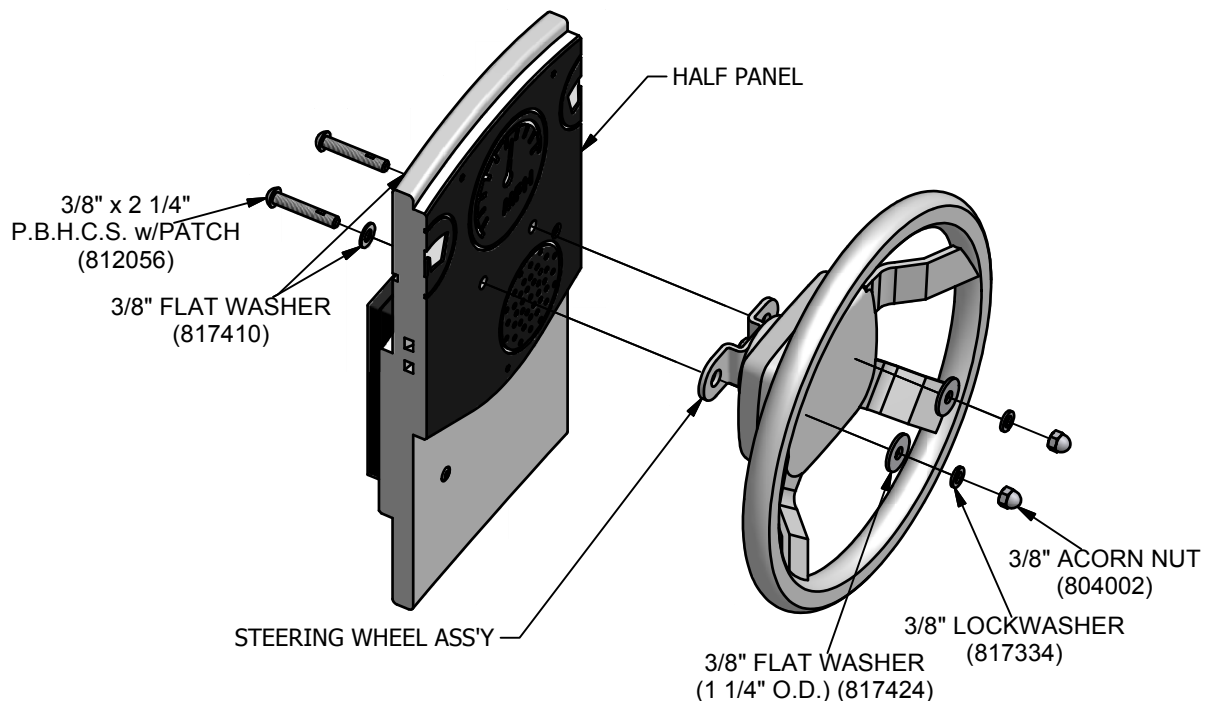
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



NOTE: HEX BOLTS SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.



822



670

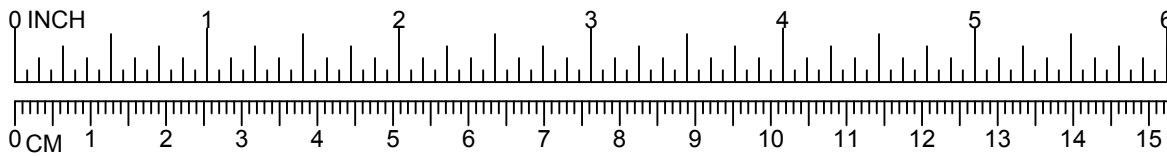
DETAILS -for- 80986, 80987, 80988, AND 80989

IMPORTANT

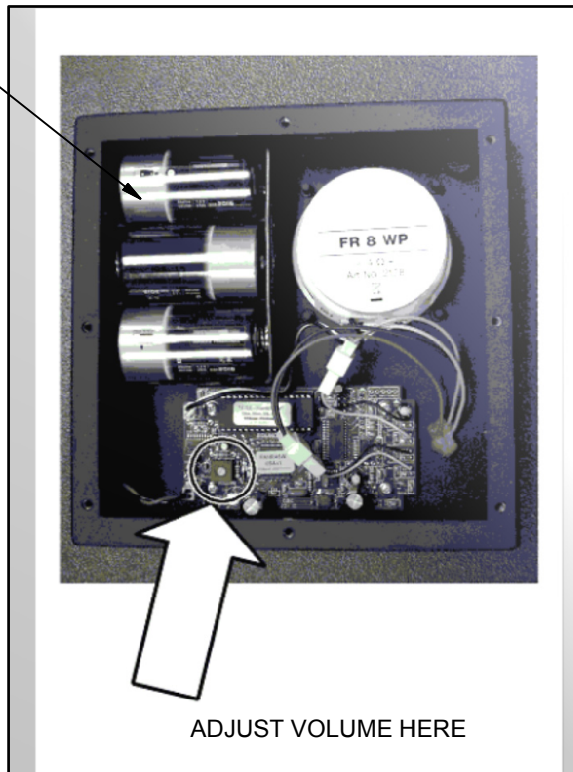
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



BATTERY REPLACEMENT:
(3) D-CELL ALKALINE
BATTERIES ONLY

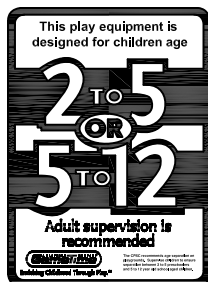
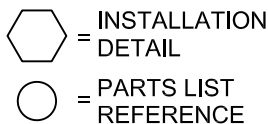


ADJUST VOLUME HERE

TO REPLACE
BATTERIES OR
ADJUST VOLUME
REMOVE BACK OF
BOX WITH TOOL
PROVIDED.

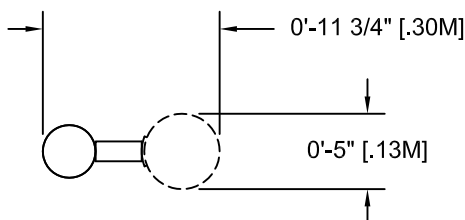
PLEASE CONSIDER OUR ENVIRONMENT
WHEN DISPOSING OF WASTE BATTERIES.
OLD BATTERIES SHOULD BE SENT TO A
LICENSED RECYCLING FACILITY FOR
PROPER PROCESSING.

658

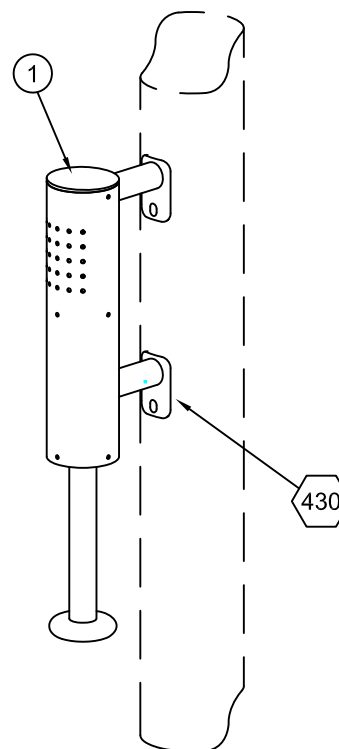


INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEW



ASSEMBLY DRAWING

PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
1	Train Whistle	1	177372
	Hardware Complete	1	177390
	3/8" x 1 1/4" B.H.C.S.	2	811051*
	3/8" Lockwasher	2	817334*
	3/8" Flatwasher	2	817410*

*Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware*

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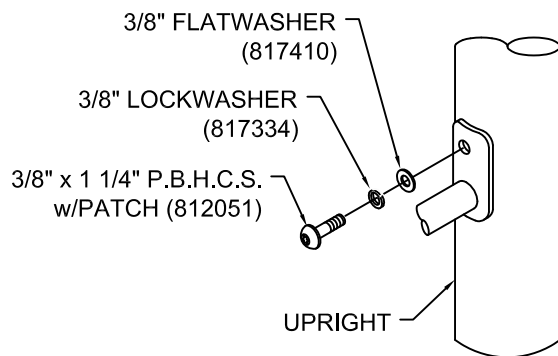
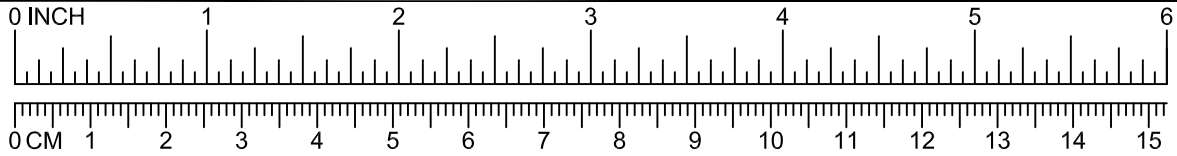
Note: Loctite (supplied by others) should be used on all threaded hardware.

DETAILS -for- 81695

IMPORTANT

To Reduce the Risk of Clothing Entanglement in Compliance with ASTM F1487, Any Bolt End Protruding More Than Two Full Threads Beyond the Face of the Nut Shall Be Cut-Off Flush, Filed Smooth and Treated to Prevent Corrosion.

NOTE: After Assembly is Complete, Peen Tee-Nuts and Flatwashers to Match Radius of Pipe.



430

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1-800-235-2440

ISSUED/REVISED: 4/5/2021

90018

ARCHWAY



90018
2'-6"
OR
BELOW

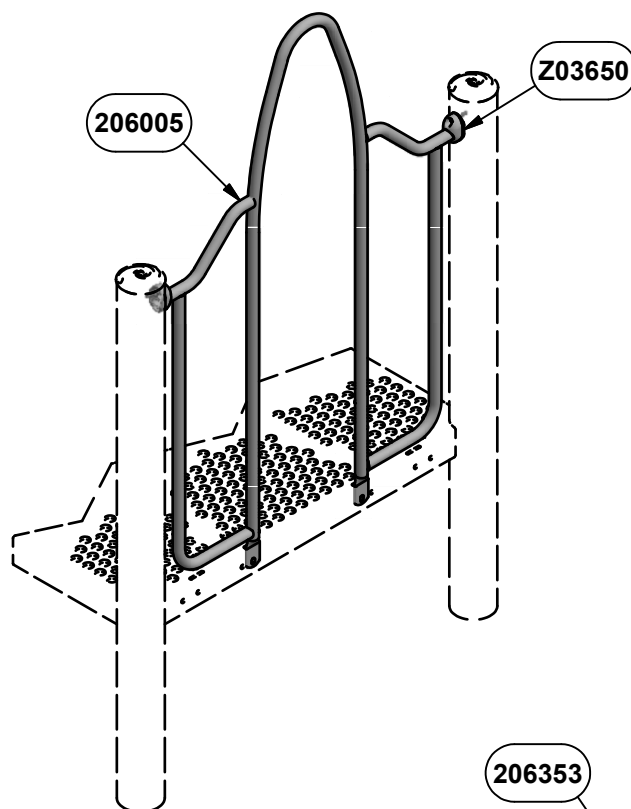


90019

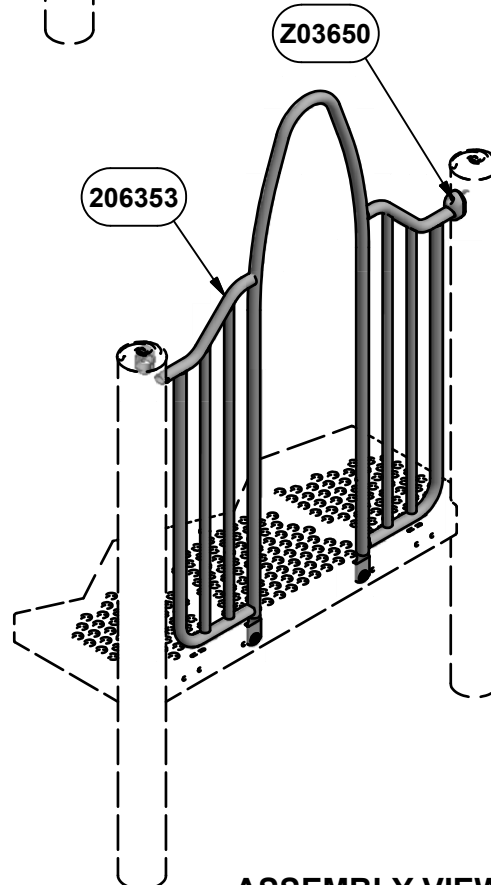


90018
4'-0"
OR
BELOW

GUARDRAIL 90018
BARRIER 90019



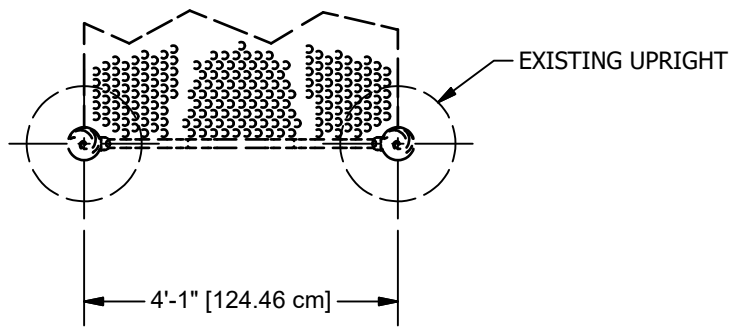
ASSEMBLY VIEW
90018



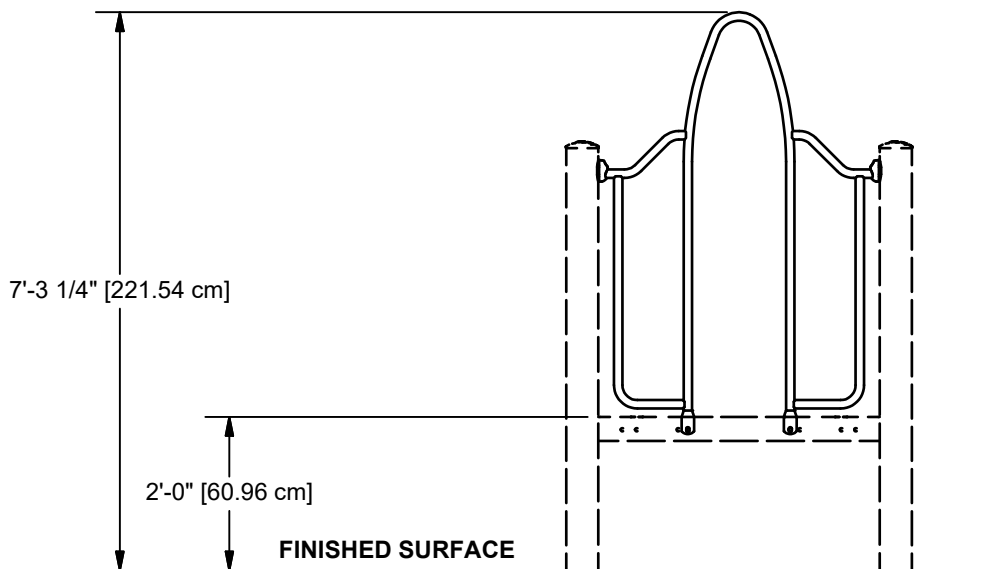
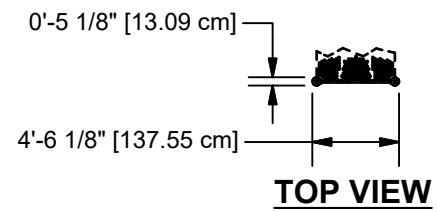
ASSEMBLY VIEW
90019

INSTALLATION INSTRUCTIONS

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3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

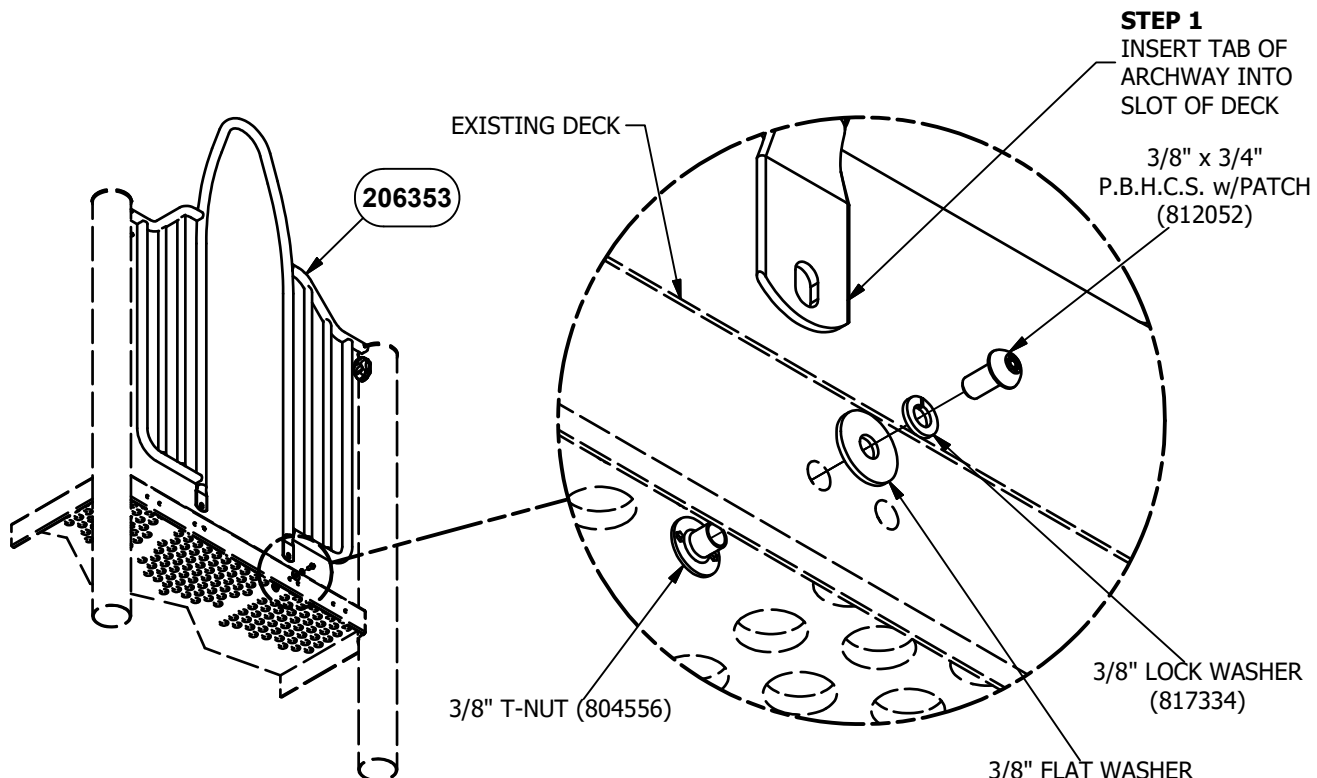
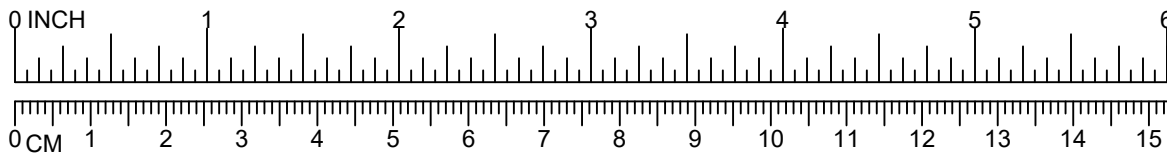


PLAN VIEW

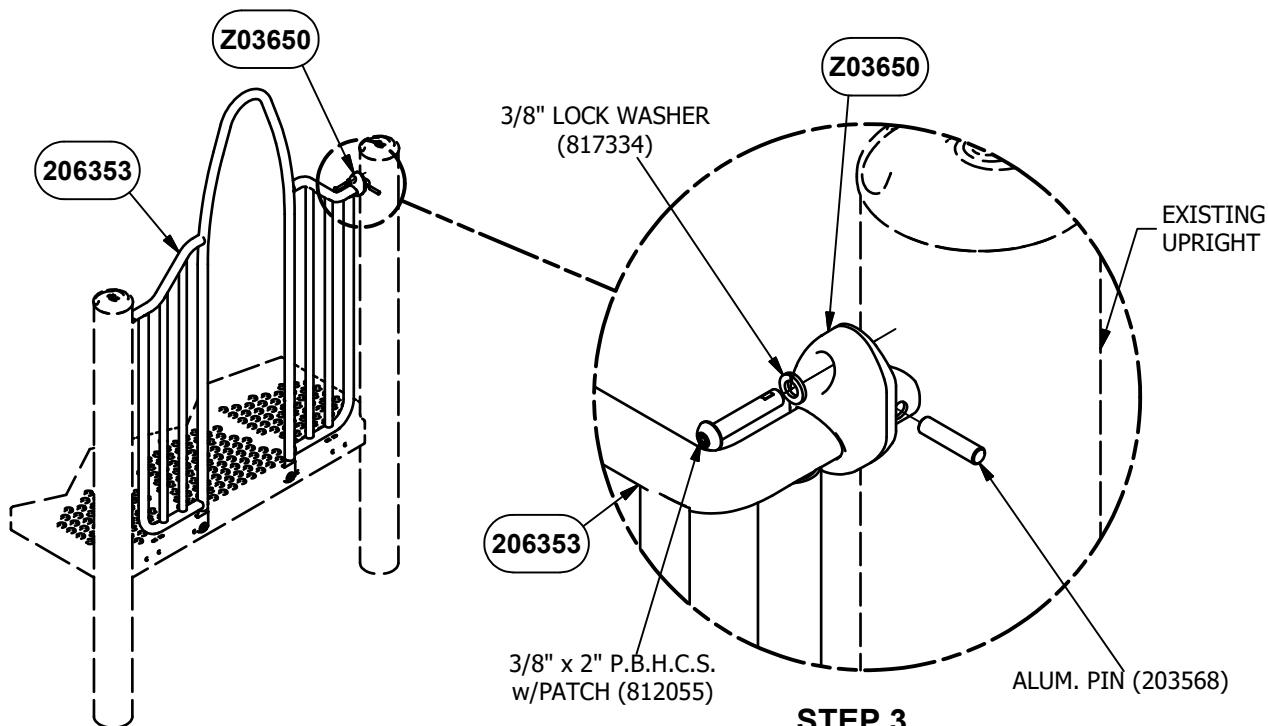


ELEVATION VIEW

90018 SHOWN
OTHER SIMILAR



STEP 2
2 PLACES



STEP 3
2 PLACES

DETAIL VIEW

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

Parts List			
DESCRIPTION	90018	90019	PART NUMBER
ARCHWAY	1	0	206005
ARCHWAY W/INFILL WELD ASS'Y	0	1	206353
TRU-LOC	2	2	Z03650
HARDWARE COMPLETE	1	1	207091
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	812052*
3/8" x 2" P.B.H.C.S. w/PATCH	2	2	812055*
3/8" LOCK WASHER	4	4	817334*
3/8" FLAT WASHER (1 1/4" O.D.)	2	2	817424*
3/8" T-NUT	2	2	804556*
ALUM. PIN	2	2	203568*

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* Included in Hardware*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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ISSUED/REVISED: 4/5/2021

90018

ARCHWAY



90018
2'-6"
OR
BELOW

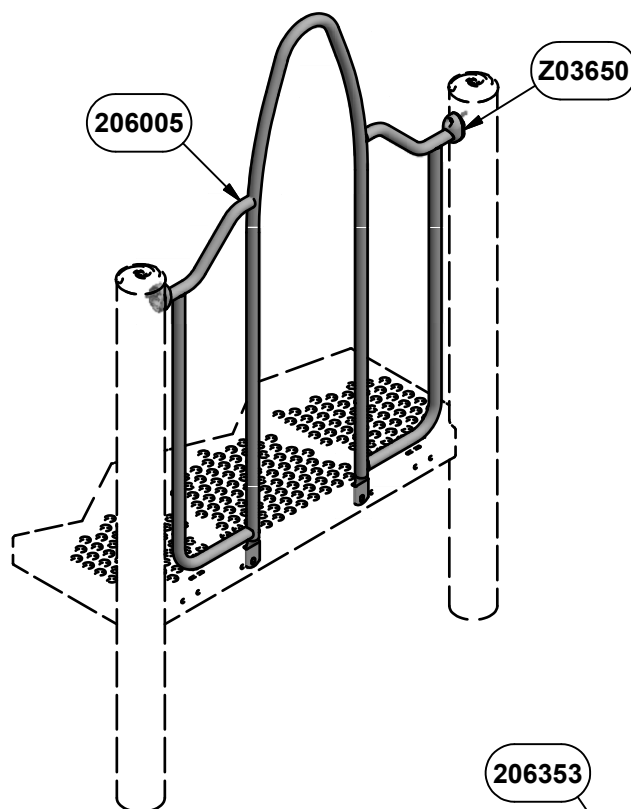


90019

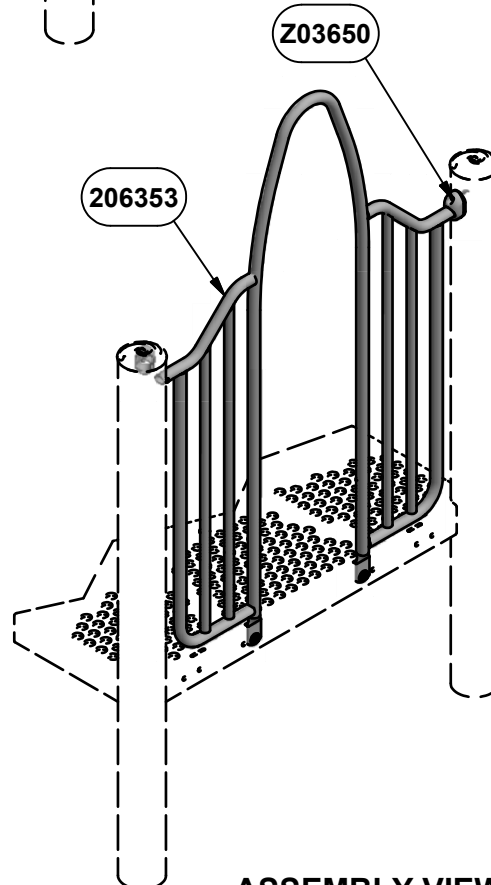


90018
4'-0"
OR
BELOW

GUARDRAIL 90018
BARRIER 90019



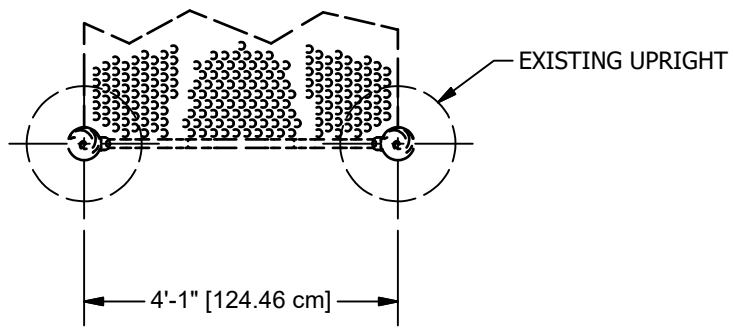
ASSEMBLY VIEW
90018



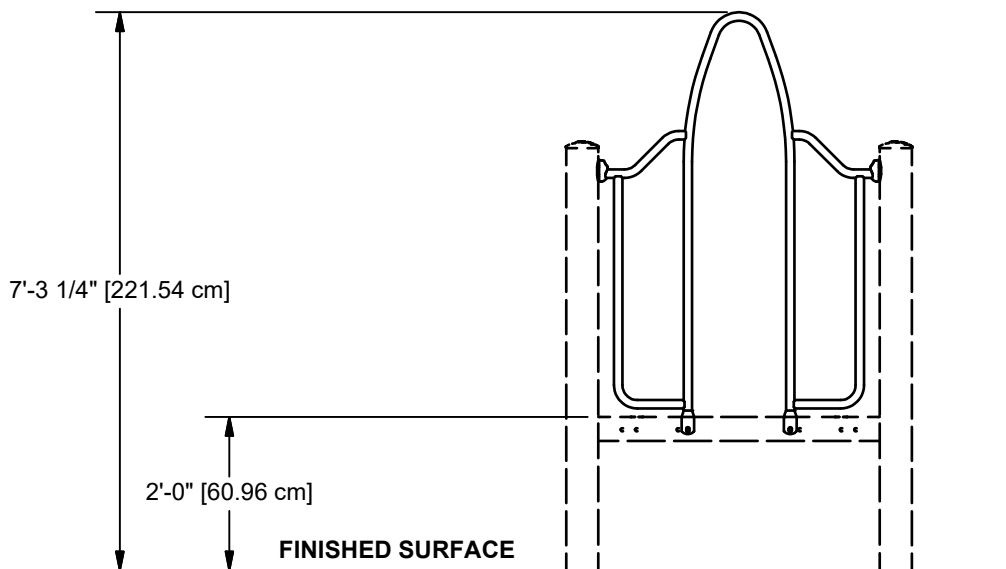
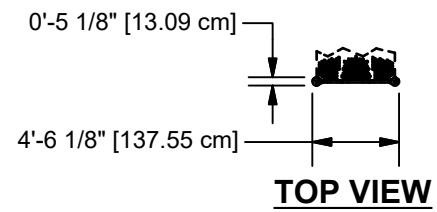
ASSEMBLY VIEW
90019

INSTALLATION INSTRUCTIONS

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4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

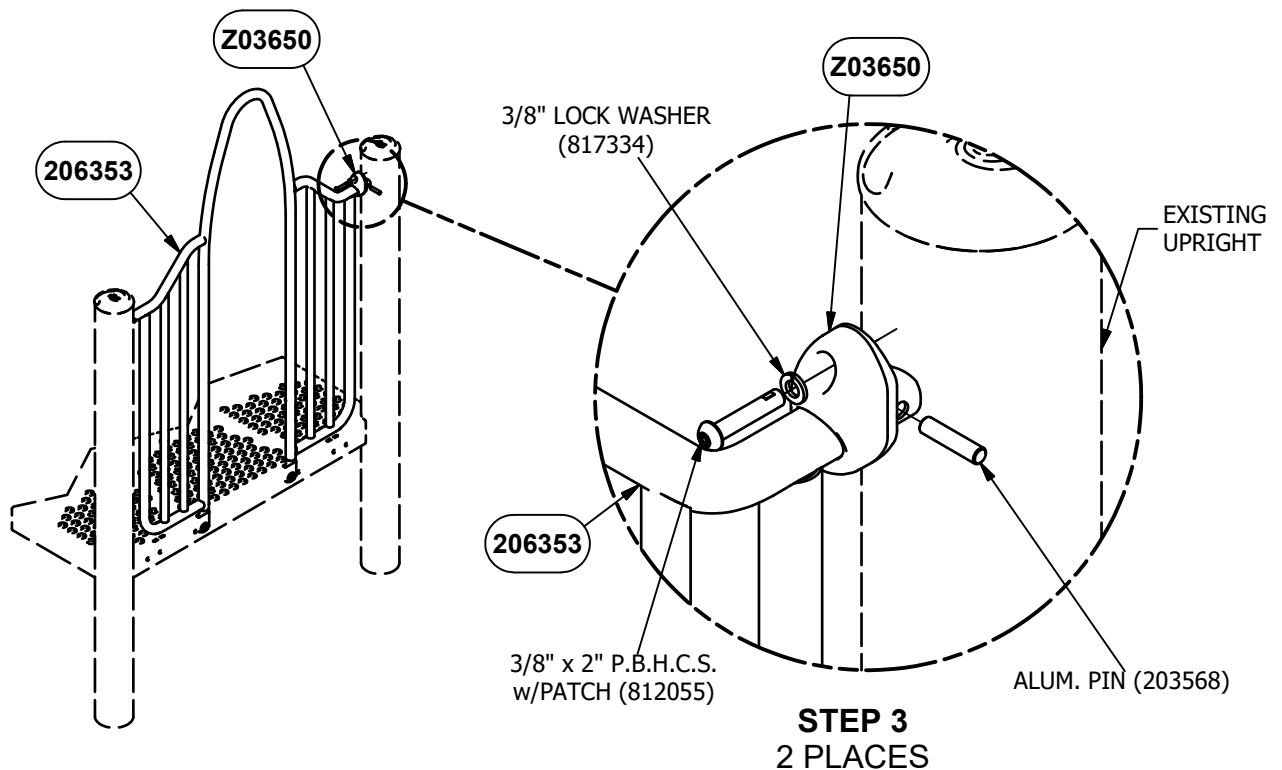
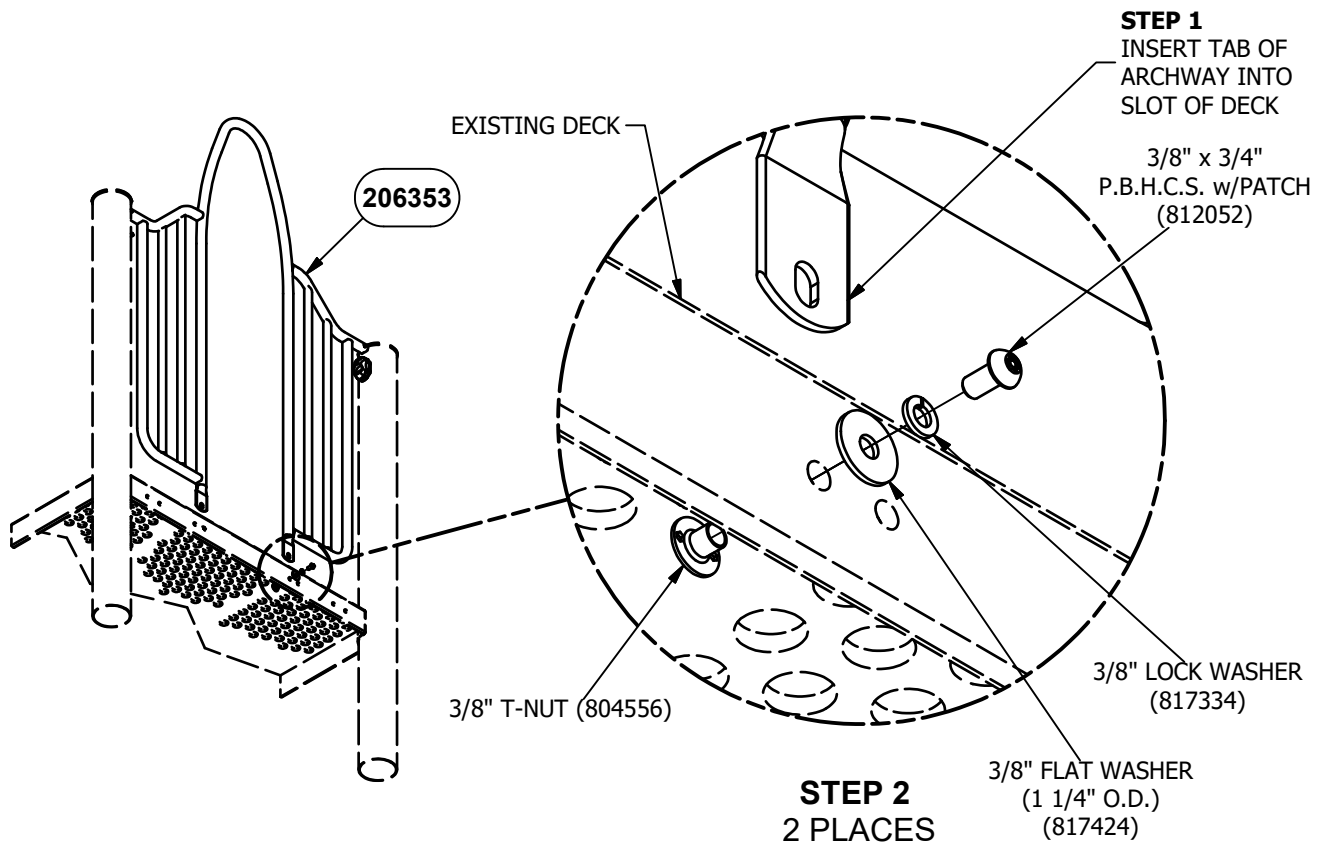
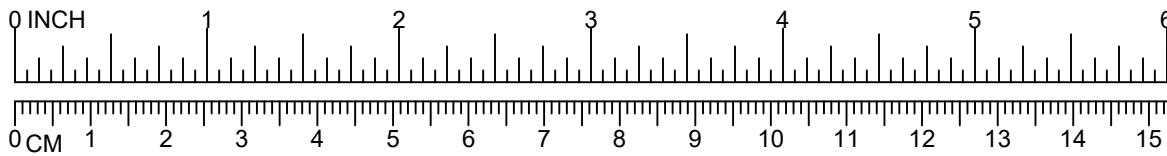


PLAN VIEW



ELEVATION VIEW

90018 SHOWN
OTHER SIMILAR



DETAIL VIEW

NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

Parts List			
DESCRIPTION	90018	90019	PART NUMBER
ARCHWAY	1	0	206005
ARCHWAY W/INFILL WELD ASS'Y	0	1	206353
TRU-LOC	2	2	Z03650
HARDWARE COMPLETE	1	1	207091
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	812052*
3/8" x 2" P.B.H.C.S. w/PATCH	2	2	812055*
3/8" LOCK WASHER	4	4	817334*
3/8" FLAT WASHER (1 1/4" O.D.)	2	2	817424*
3/8" T-NUT	2	2	804556*
ALUM. PIN	2	2	203568*

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MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
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PowerScape®

90020



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1-800-235-2440

ISSUED/REVISED: 8/17/23

TRANSFER SYSTEM WITH BARRIER

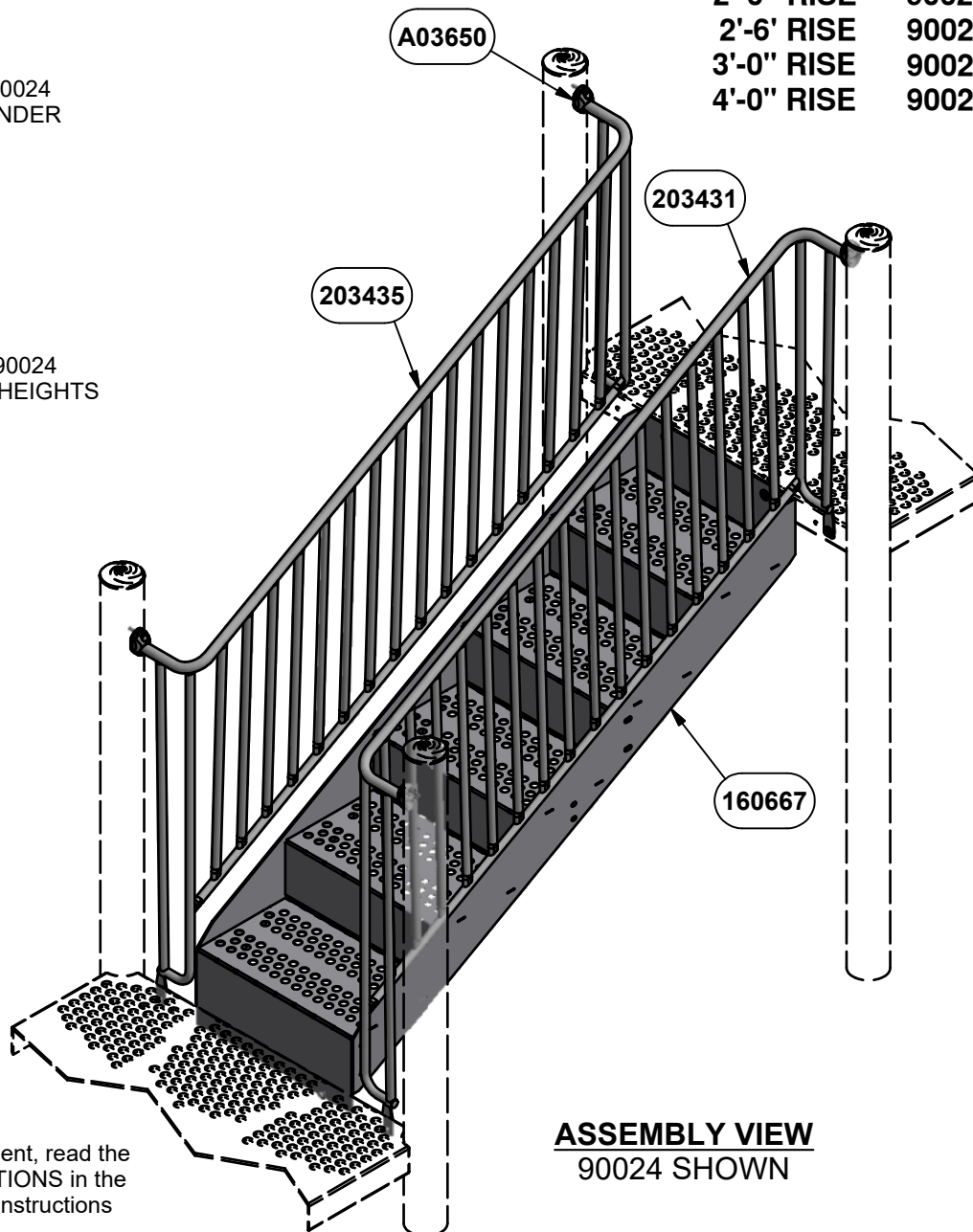


90020-90024
5'-0" & UNDER



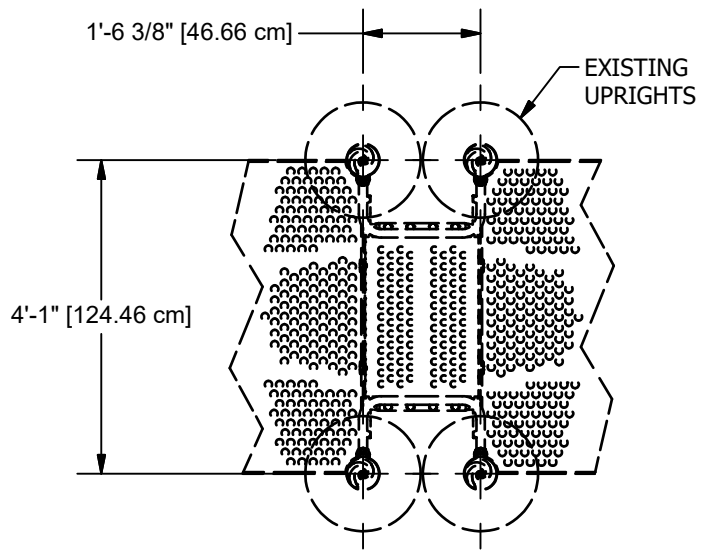
90020-90024
ALL DECK HEIGHTS

1'-0" RISE	90020
2'-0" RISE	90021
2'-6" RISE	90022
3'-0" RISE	90023
4'-0" RISE	90024

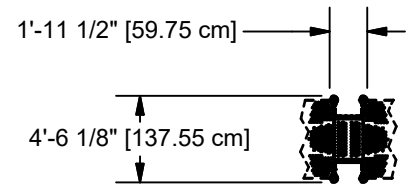


INSTALLATION INSTRUCTIONS

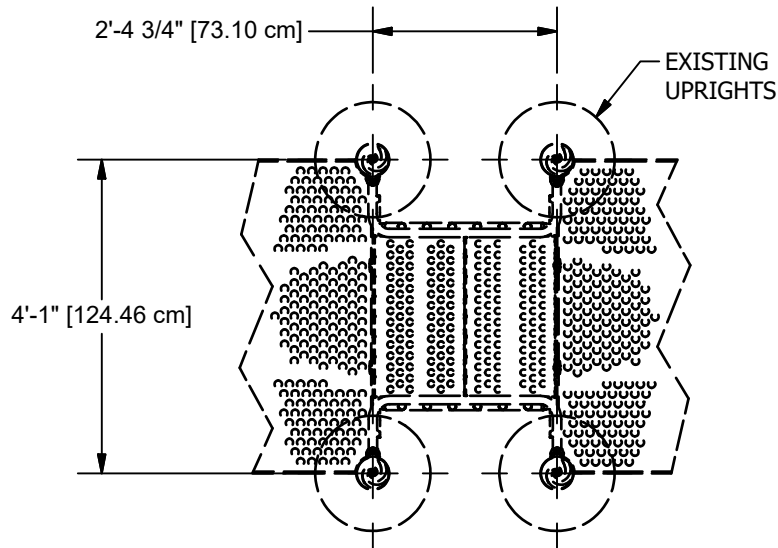
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
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4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



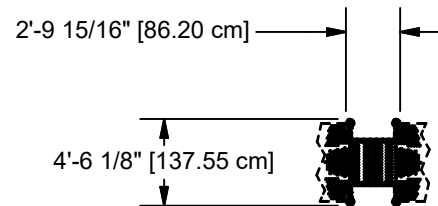
PLAN VIEW
90020



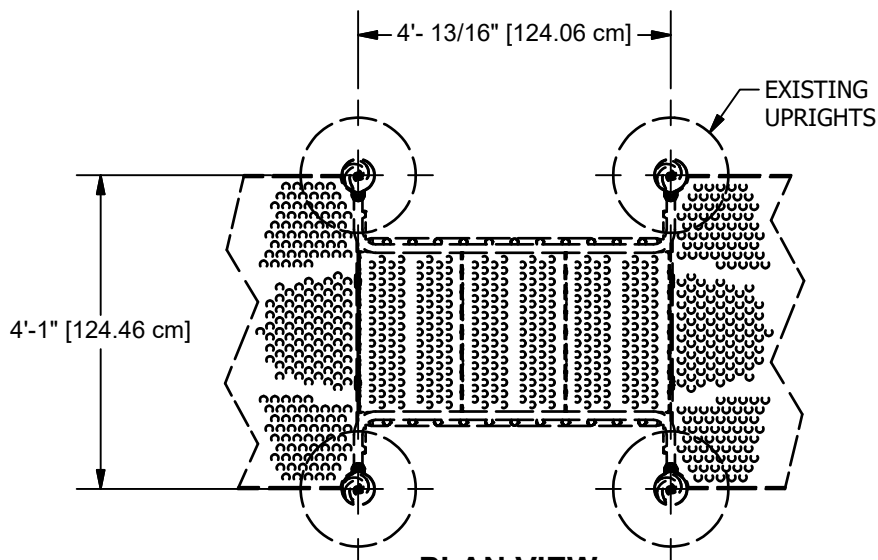
TOP VIEW
90020



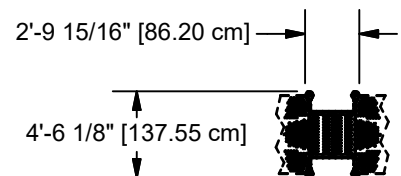
PLAN VIEW
90021



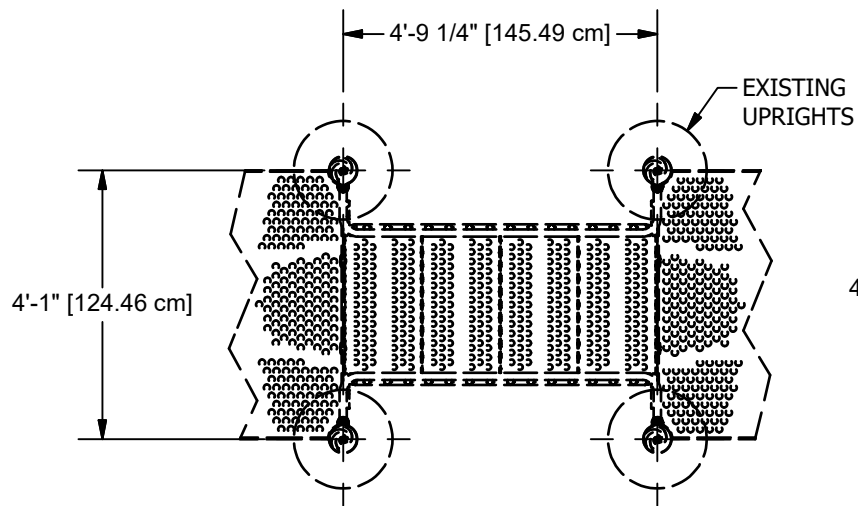
TOP VIEW
90021



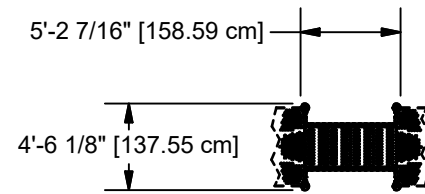
PLAN VIEW
90022



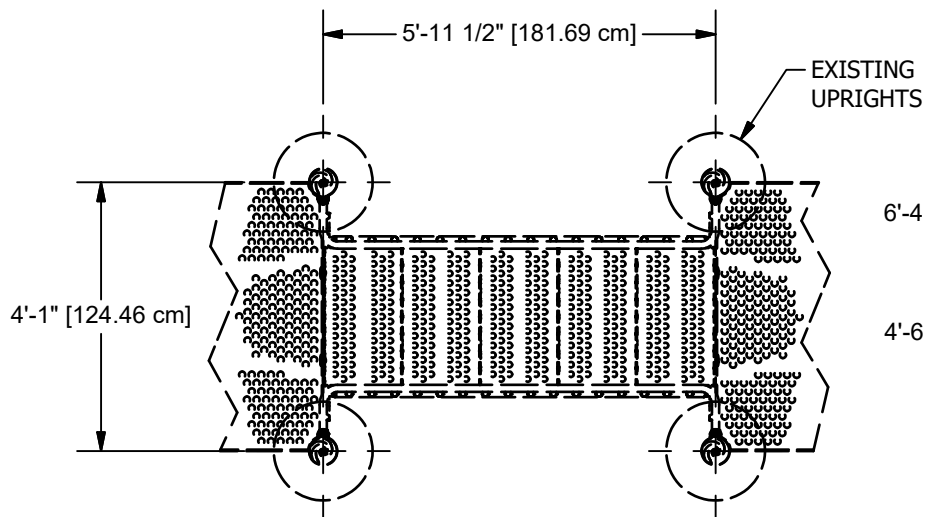
TOP VIEW
90022



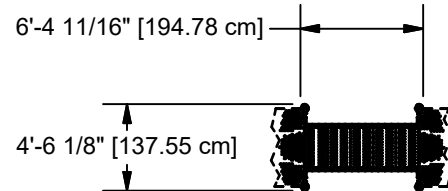
PLAN VIEW
90023



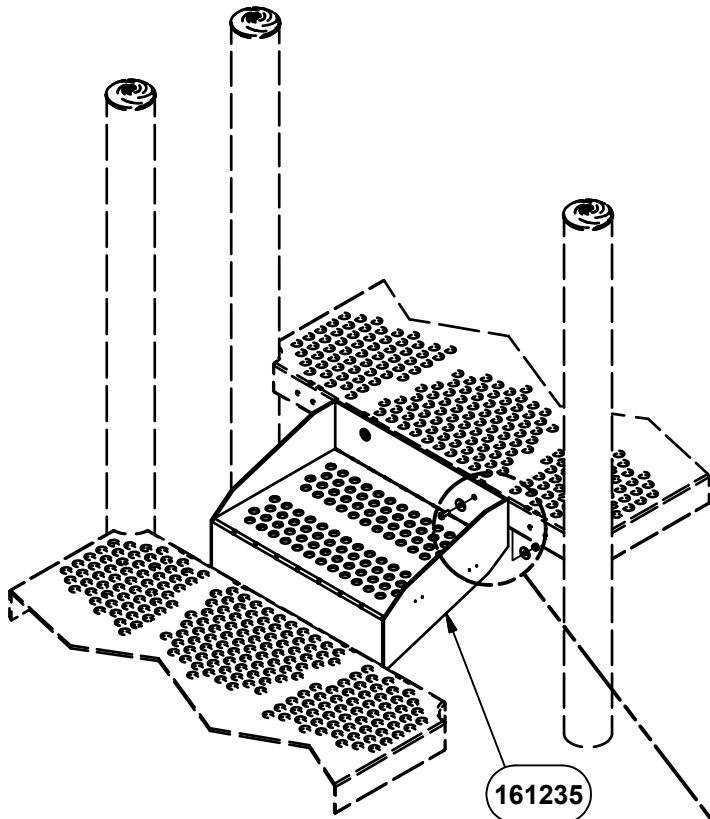
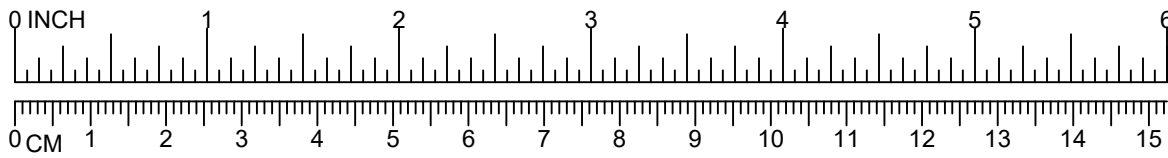
TOP VIEW
90023



PLAN VIEW
90024

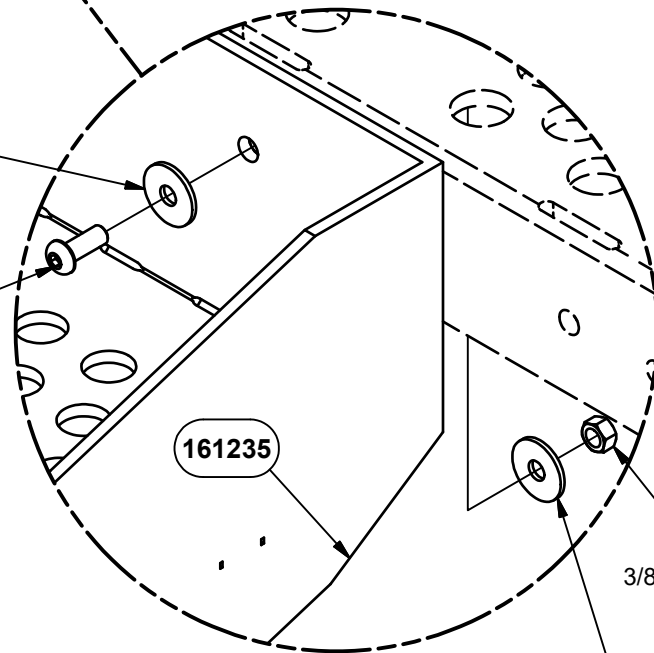


TOP VIEW
90024



3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

3/8" x 1" P.B.H.C.S.
w/PATCH (812050)



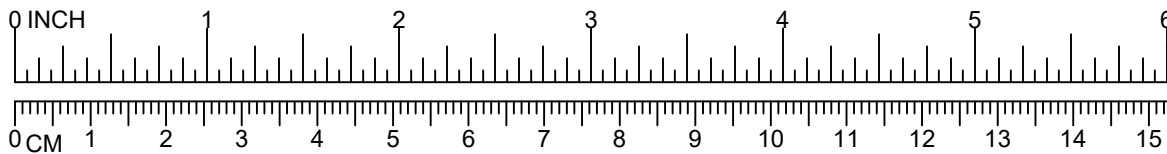
STEP 1
4 PLACES

3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

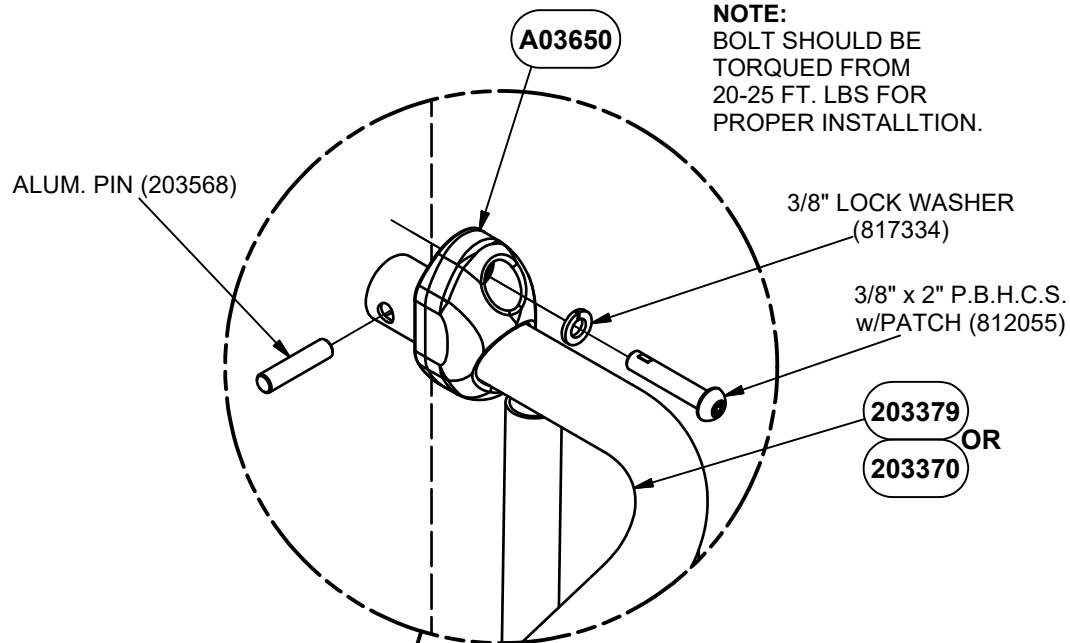
3/8" LOCK NUT
(804353)

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

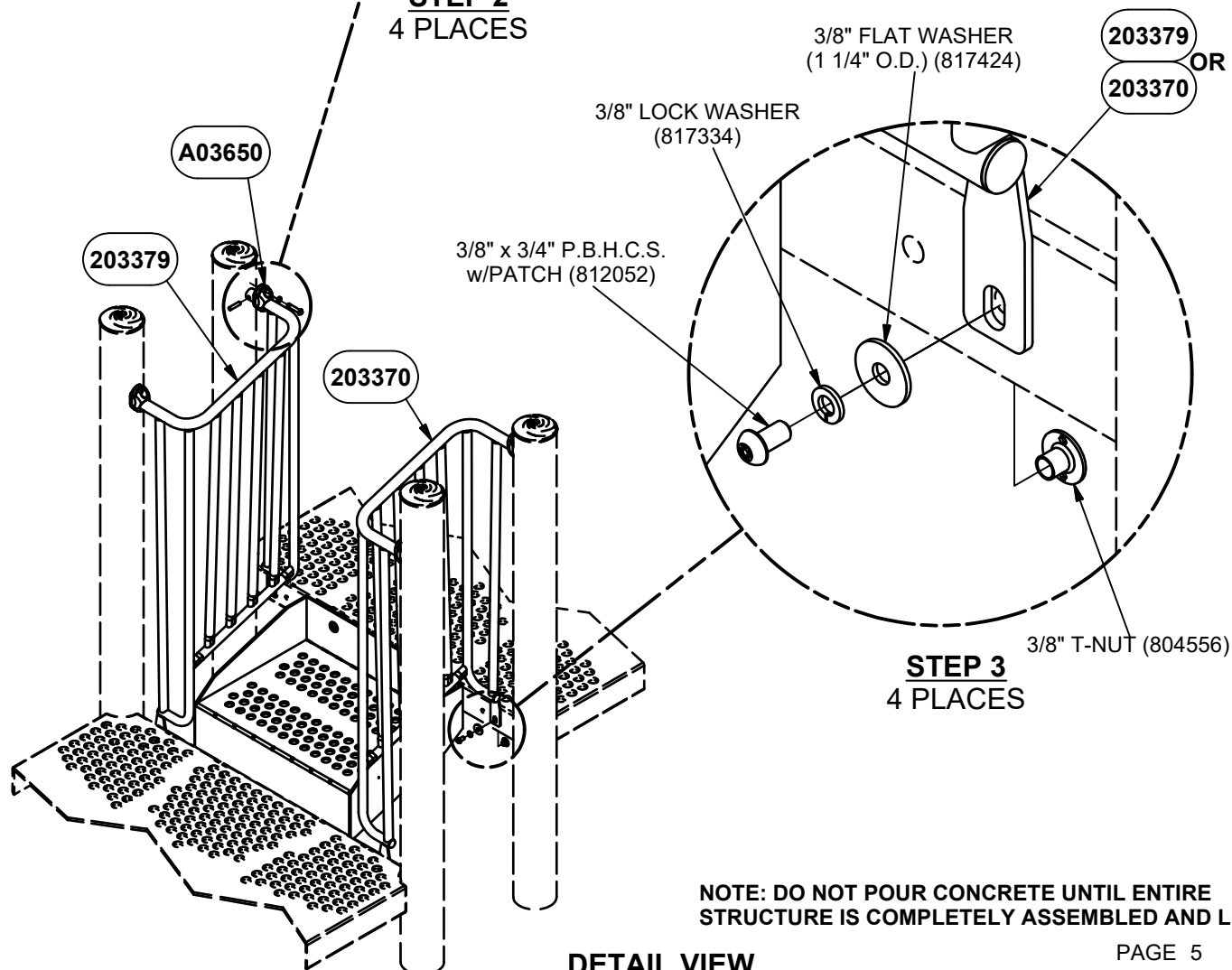
DETAIL VIEW



NOTE:
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS FOR
PROPER INSTALLTION.



STEP 2
4 PLACES



STEP 3
4 PLACES

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW

Parts List						
DESCRIPTION	90020	90021	90022	90023	90024	PART NUMBER
TRU-LOC	4	4	4	4	4	A03650
1' COATED STEPLINK	1	0	0	0	0	161235
2' STEP ASSEMBLY	0	1	0	0	0	160670
2'-6' STEP ASSEMBLY	0	0	1	0	0	167494
3' STEP ASSEMBLY	0	0	0	1	0	161371
4' STEP ASSEMBLY	0	0	0	0	1	160667
RIGHT BARRIER WELD ASSEMBLY	1	0	0	0	0	203370
RIGHT BARRIER WELD ASSEMBLY	0	1	0	0	0	203384
RIGHT BARRIER WELD ASSEMBLY	0	0	1	0	0	203397
RIGHT BARRIER WELD ASSEMBLY	0	0	0	1	0	203417
RIGHT BARRIER WELD ASSEMBLY	0	0	0	0	1	203431
LEFT BARRIER WELD ASSEMBLY	1	0	0	0	0	203379
LEFT BARRIER WELD ASSEMBLY	0	1	0	0	0	203392
LEFT BARRIER WELD ASSEMBLY	0	0	1	0	0	203411
LEFT BARRIER WELD ASSEMBLY	0	0	0	1	0	203425
LEFT BARRIER WELD ASSEMBLY	0	0	0	0	1	203435
HARDWARE COMPLETE	1	1	1	1	1	223320
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	4	812052*
3/8" x 1" P.B.H.C.S. w/PATCH	4	4	4	4	4	812050*
3/8" x 2" P.B.H.C.S. w/PATCH	4	4	4	4	4	812055*
3/8" FLAT WASHER (1 1/4" O.D.)	12	12	12	12	12	817424*
3/8" LOCK WASHER	8	8	8	8	8	817334*
3/8" LOCK NUT	4	4	4	4	4	804353*
3/8" T-NUT	4	4	4	4	4	804556*
ALUM. PIN	4	4	4	4	4	203568*

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- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
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1-800-235-2440

90103 SCHOONER CLIMBER

ISSUED/REVISED: 11/18/2020



90103
90104
90105
90106



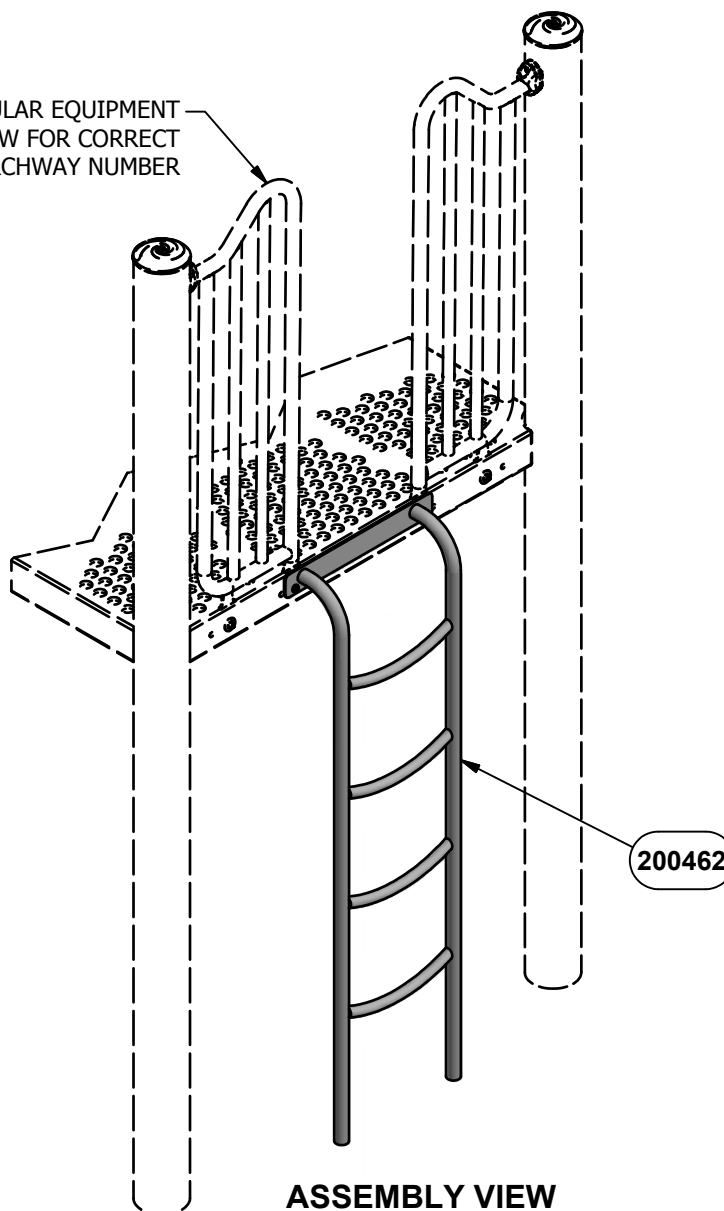
90107
90108
90109

2'-0"	90103
2'-6" & 3'-0"	90104
3'-6" & 4'-0"	90105
4'-6" & 5'-0"	90106
5'-6" & 6'-0"	90107
6'-6" & 7'-0"	90108
7'-6" & 8'-0"	90109

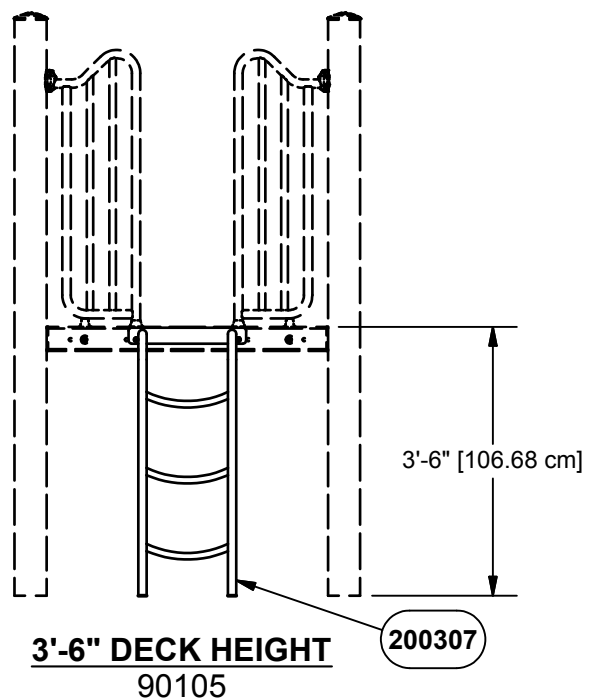
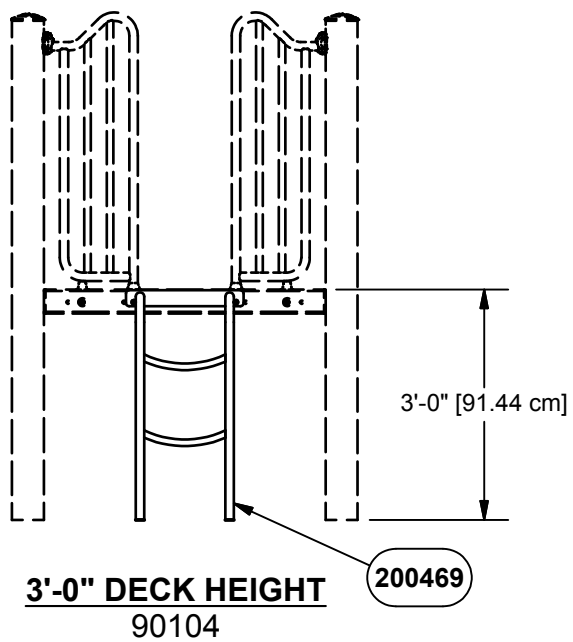
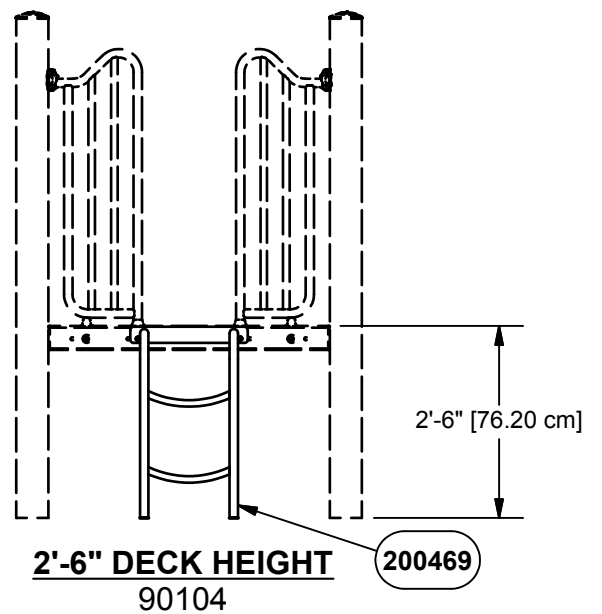
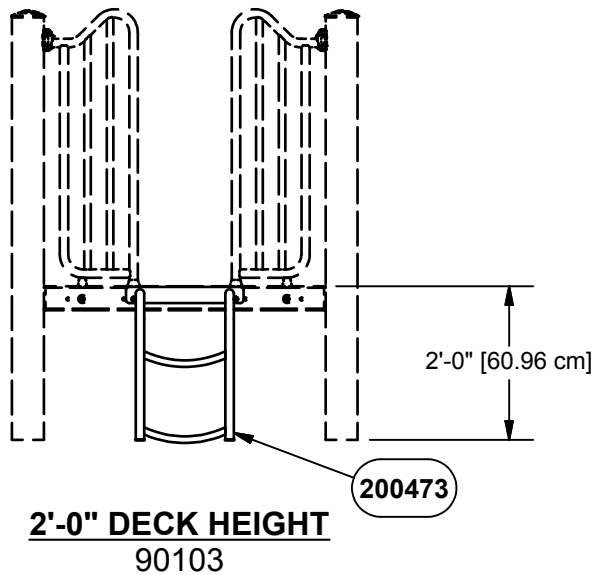
INSTALLATION INSTRUCTIONS

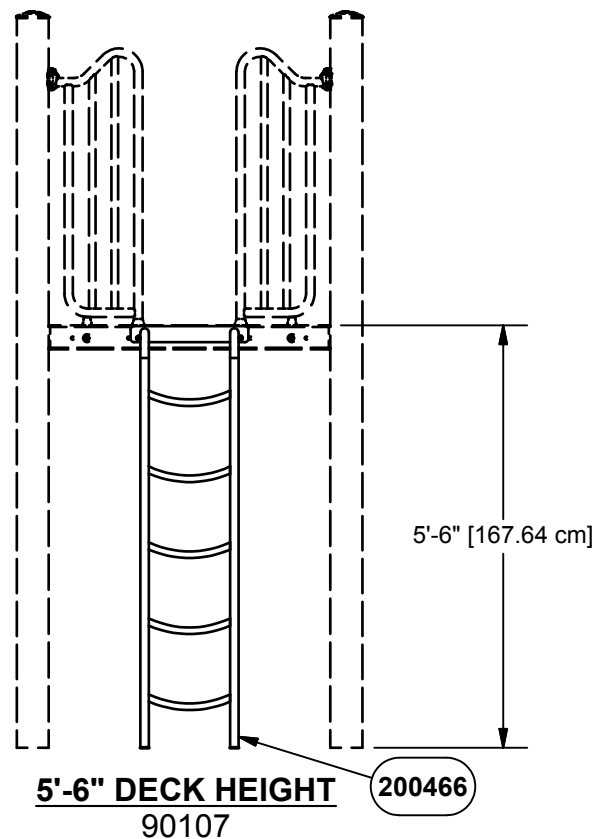
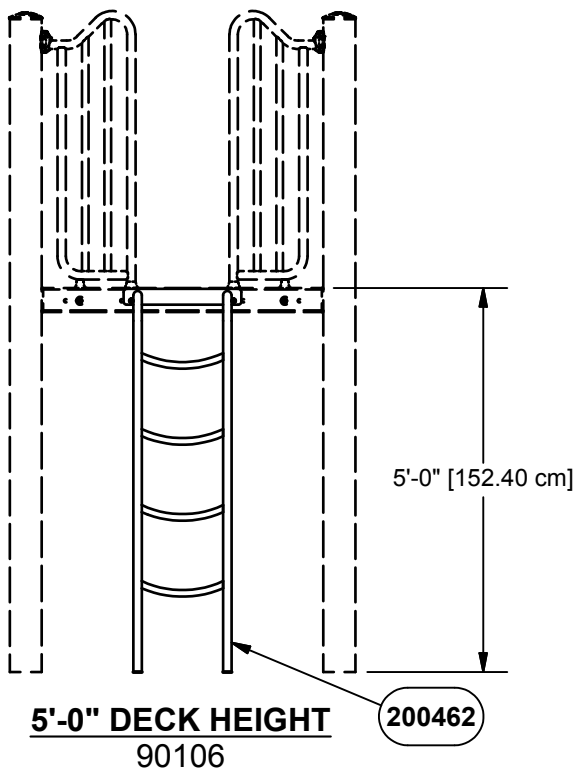
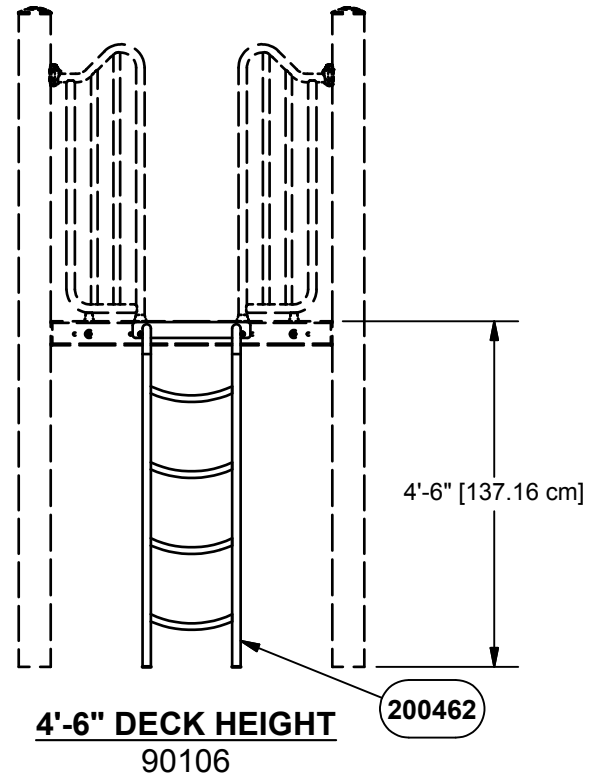
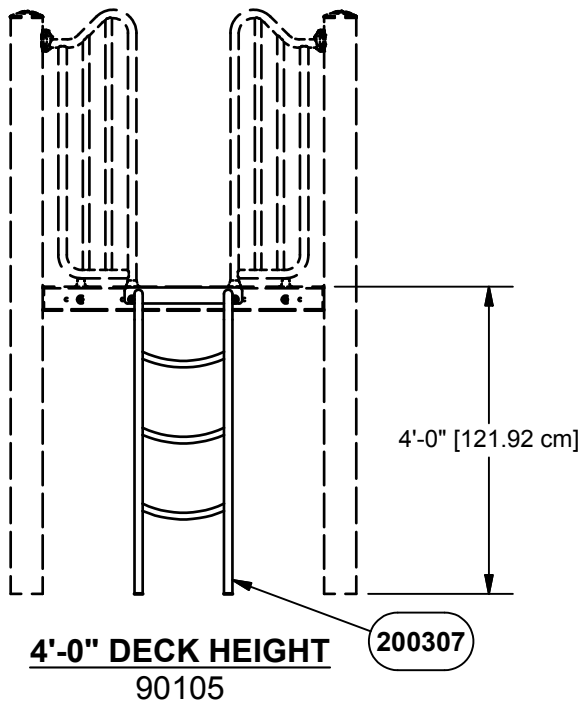
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
4. DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

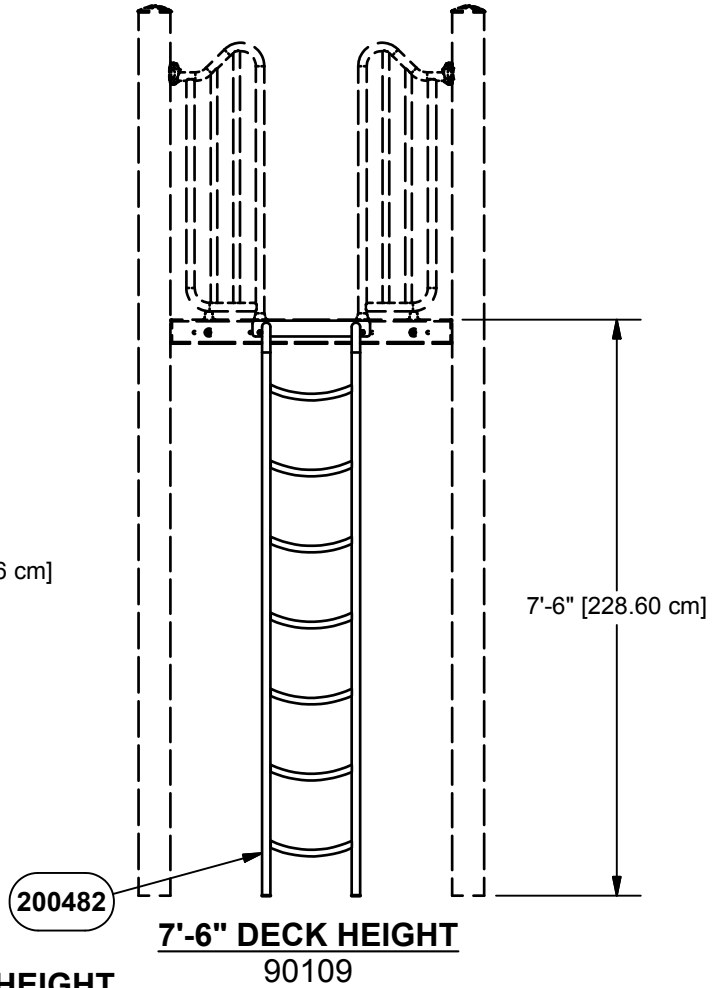
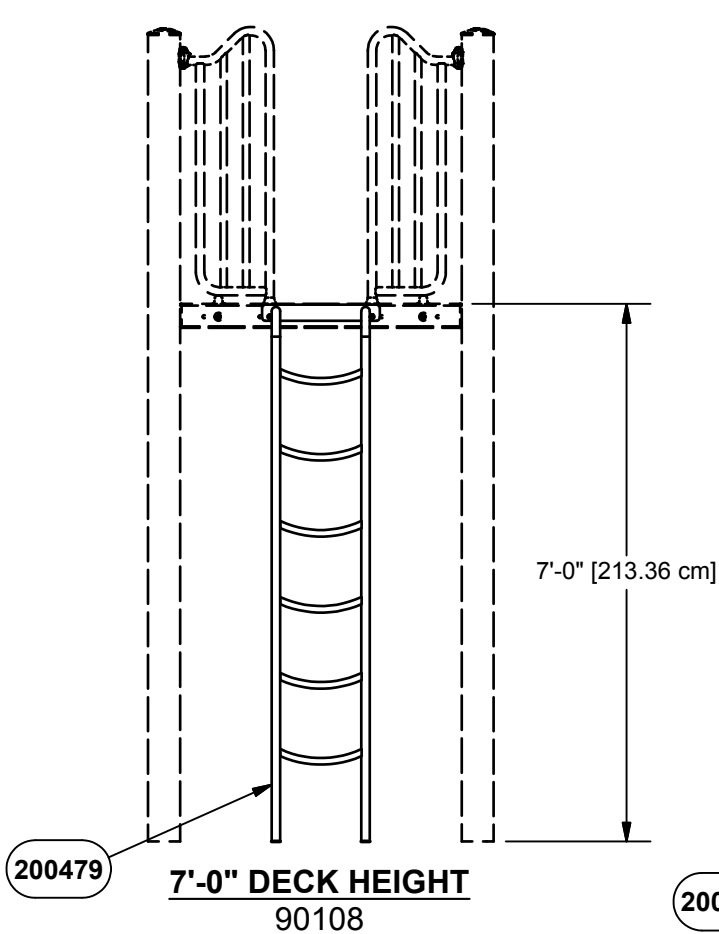
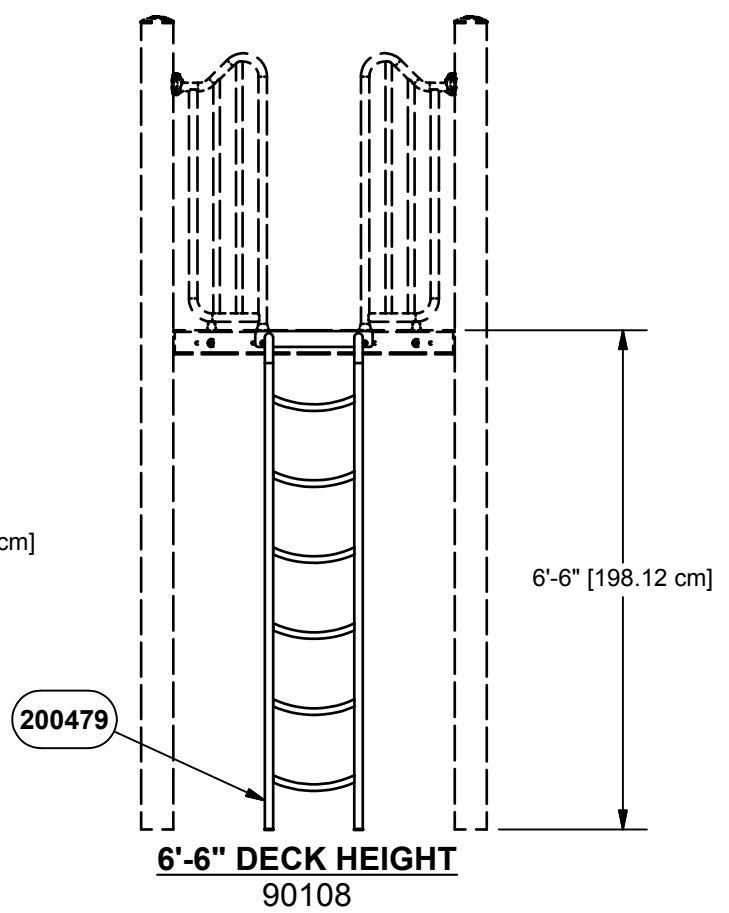
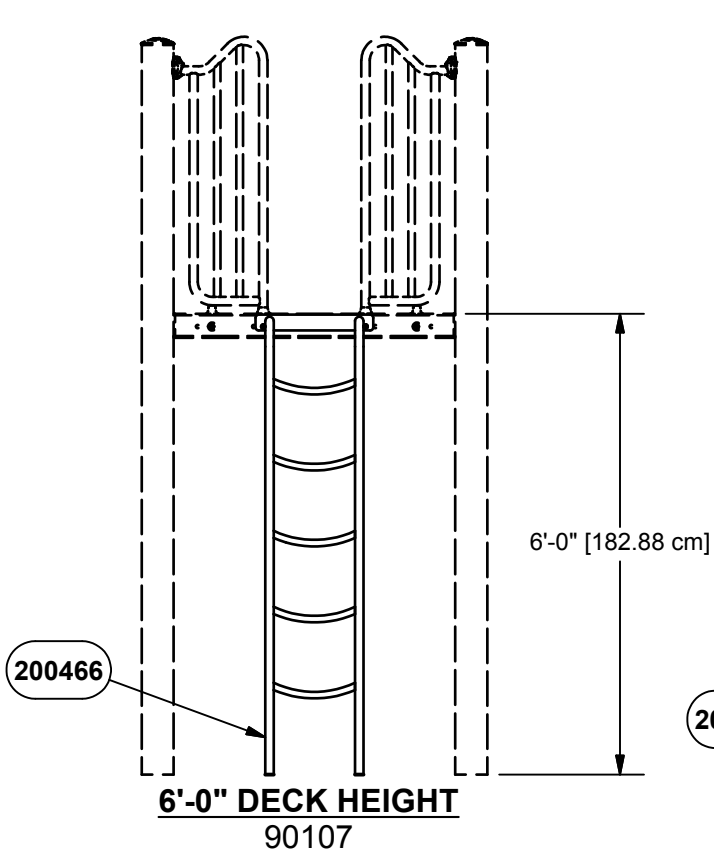
REFER TO MODULAR EQUIPMENT
TOP VIEW FOR CORRECT
ARCHWAY NUMBER



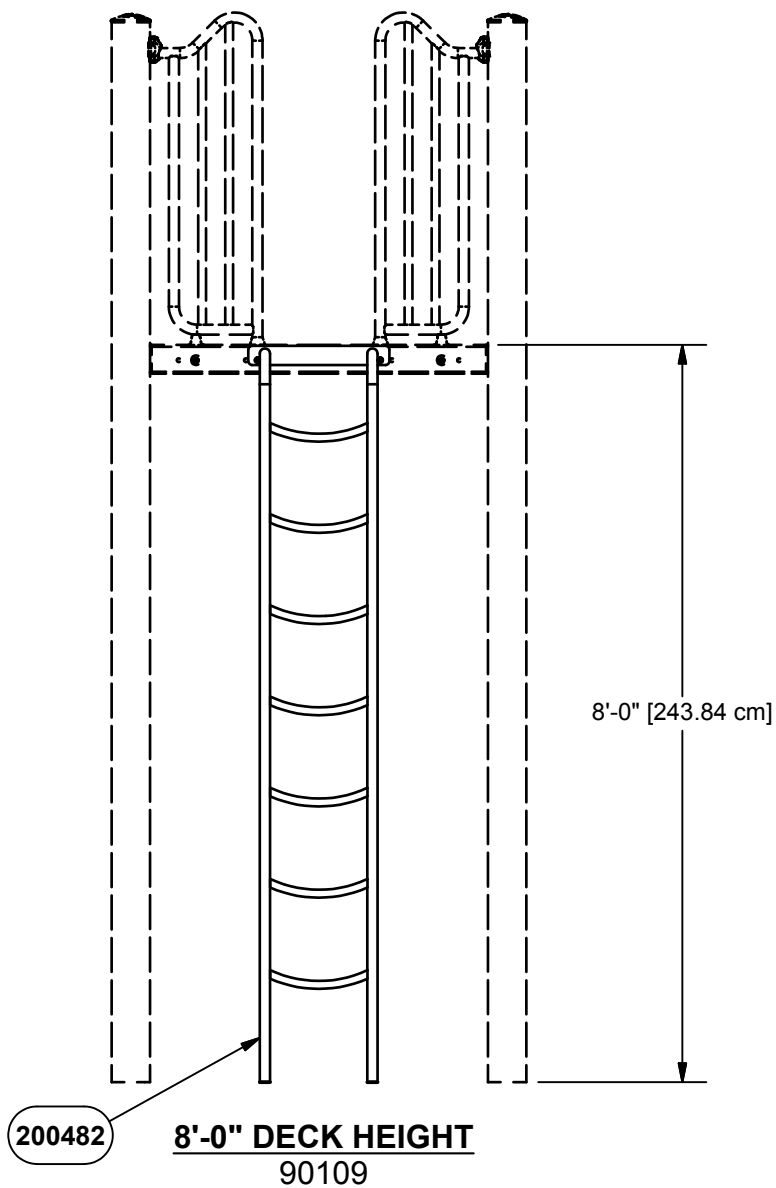
ASSEMBLY VIEW
5'-0" 90106 SHOWN

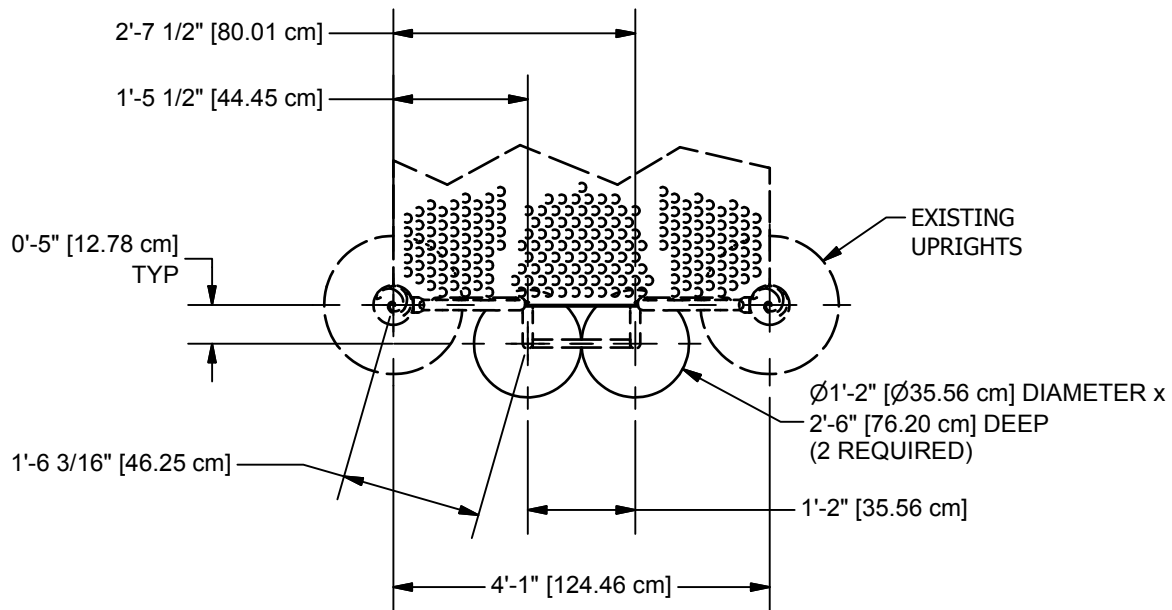






**DECK HEIGHT
ELEVATIONS**

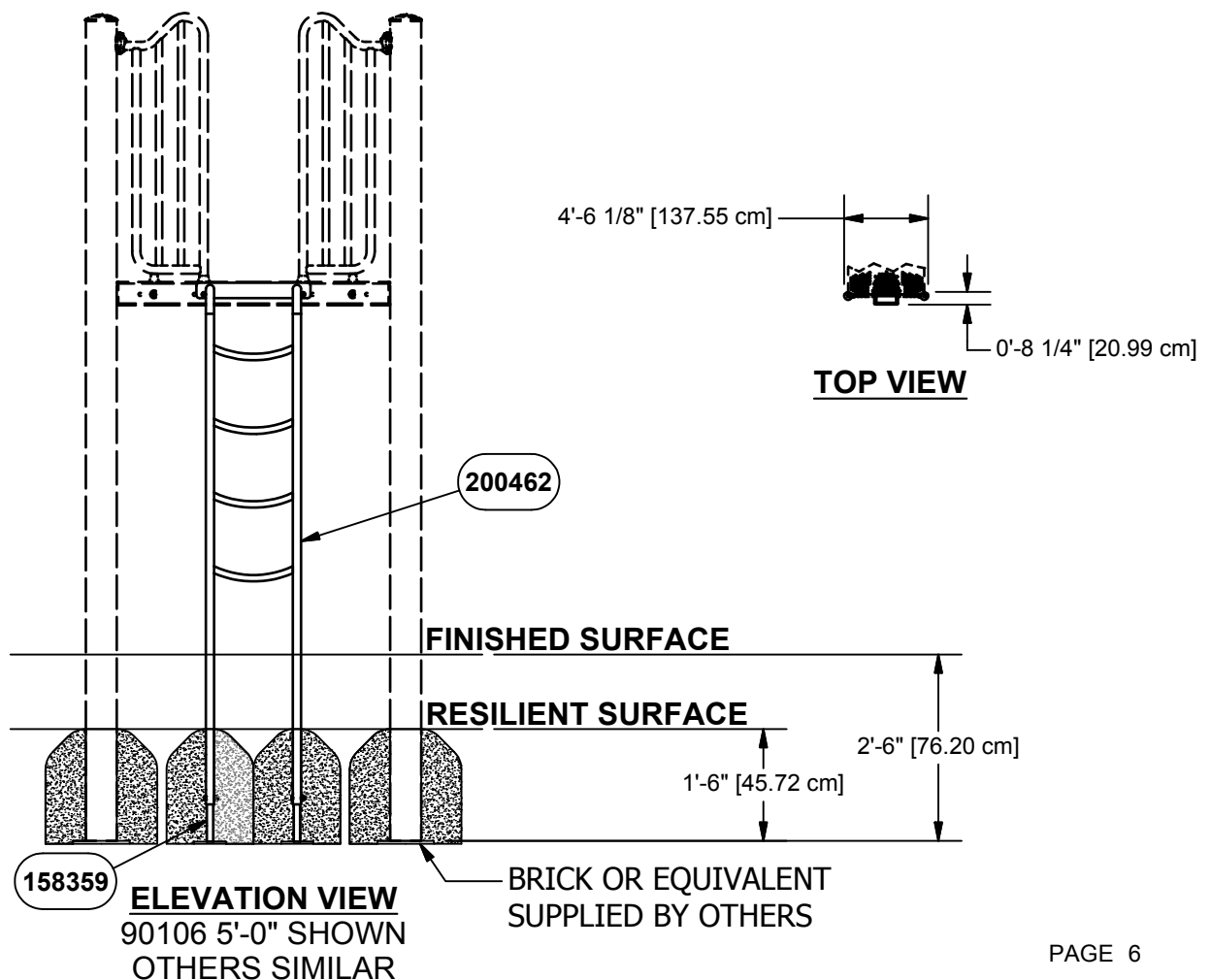


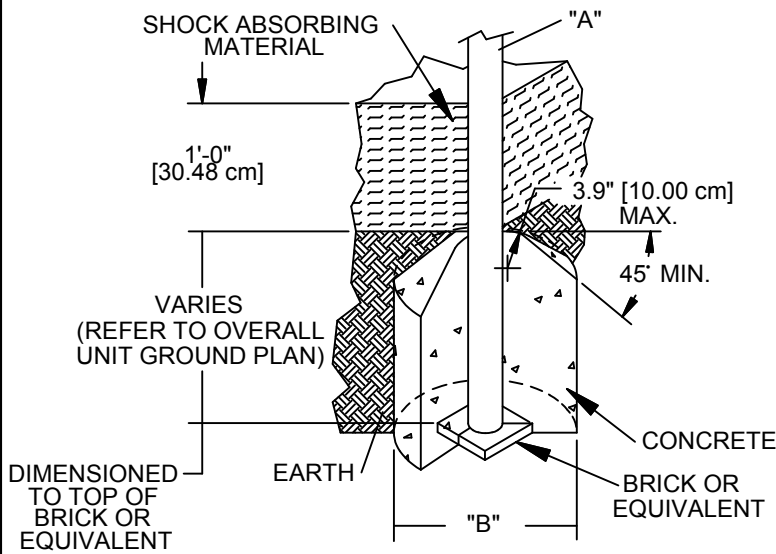


PLAN VIEW

CONCRETE REQUIRED:
.12 CUBIC YARDS
[.09 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL
GROUND PLANS ARE MEASURED FROM
THE FINISHED SURFACE. ALL FOOTING
DIMENSIONS ARE BASED ON LEVEL
FINISHED SURFACE.





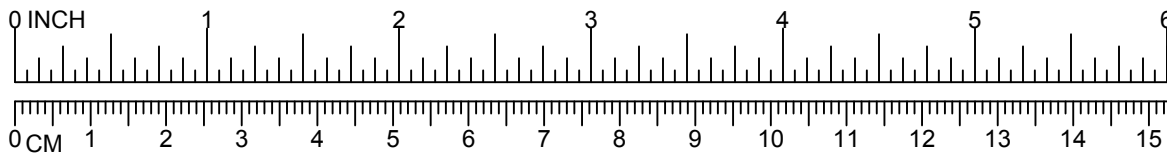
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

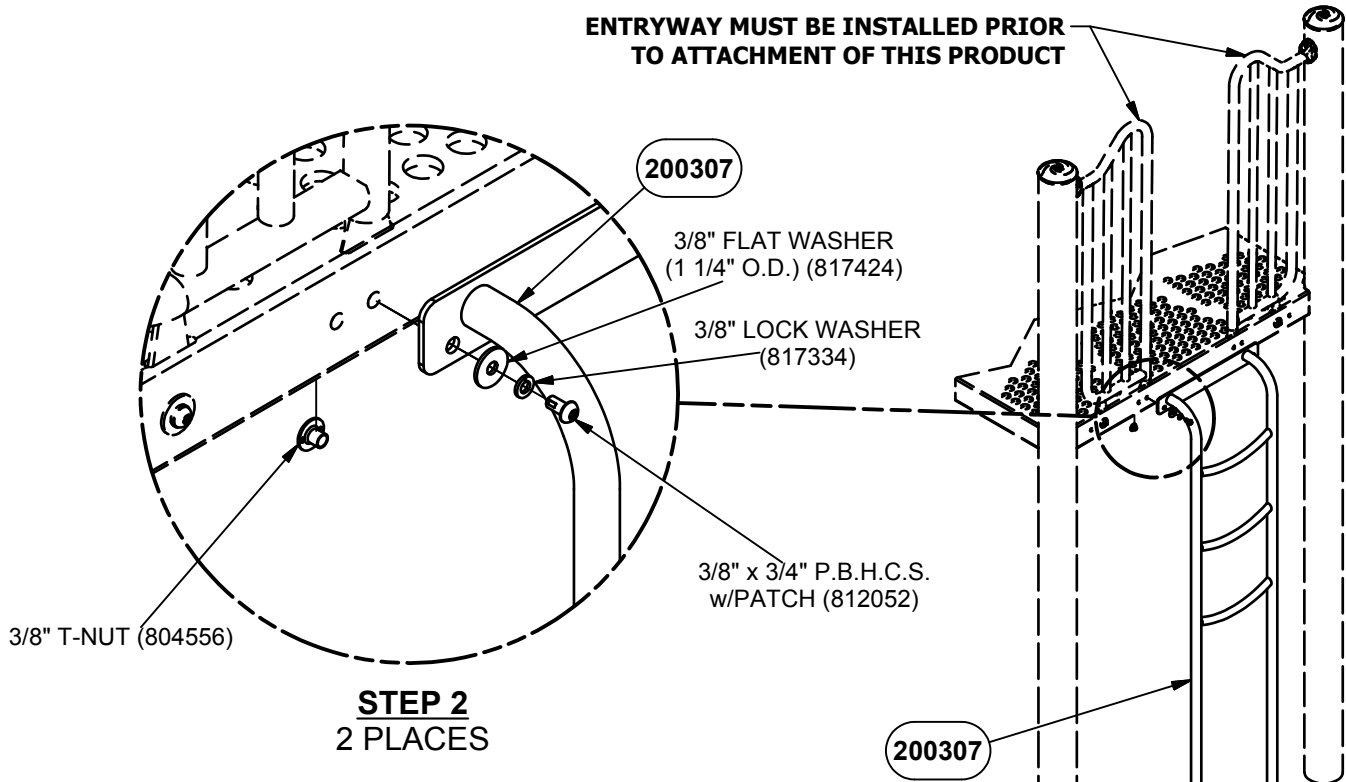
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

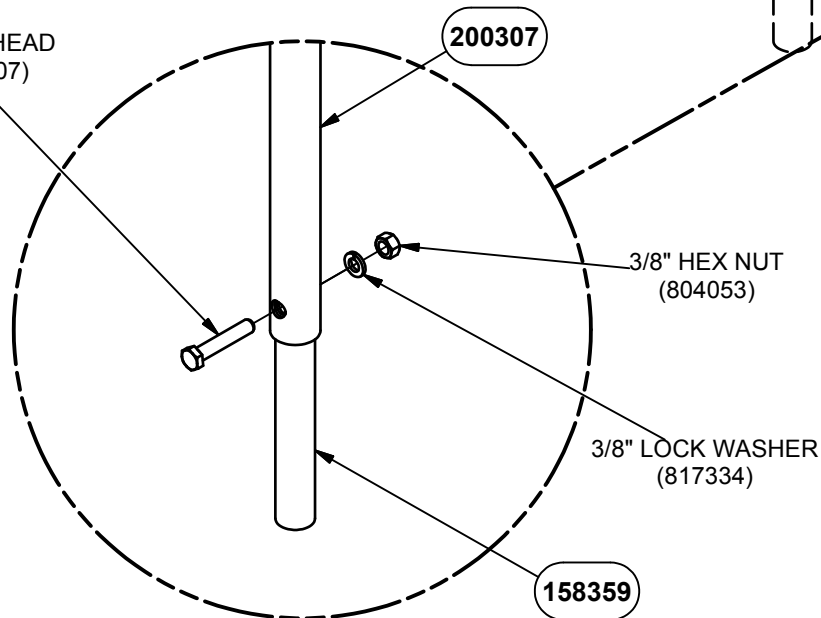
FOOTING DETAIL



**ENTRYWAY MUST BE INSTALLED PRIOR
TO ATTACHMENT OF THIS PRODUCT**



3/8" x 2" HEX HEAD
BOLT (801007)



STEP 1
2 PLACES

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW

Parts List								
DESCRIPTION	90103	90104	90105	90106	90107	90108	90109	PART NUMBER
SCHOONER CLIMBER WELD ASS'Y	1	0	0	0	0	0	0	200473
SCHOONER CLIMBER WELD ASS'Y	0	1	0	0	0	0	0	200469
SCHOONER CLIMBER WELD ASS'Y	0	0	1	0	0	0	0	200307
SCHOONER CLIMBER WELD ASS'Y	0	0	0	1	0	0	0	200462
SCHOONER CLIMBER WELD ASS'Y	0	0	0	0	1	0	0	200466
SCHOONER CLIMBER WELD ASS'Y	0	0	0	0	0	1	0	200479
SCHOONER CLIMBER WELD ASS'Y	0	0	0	0	0	0	1	200482
HARDWARE COMPLETE	1	0	0	0	0	0	0	203664
HARDWARE COMPLETE	0	1	1	1	1	1	1	203665
EXTENSION	0	2	2	2	2	2	2	158359*
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	2	2	2	2	2	812052*
3/8" x 2" HEX HEAD BOLT	0	2	2	2	2	2	2	801007*
3/8" LOCK WASHER	2	4	4	4	4	4	4	817334*
3/8" FLAT WASHER (1 1/4" O.D.)	2	2	2	2	2	2	2	817424*
3/8" HEX-NUT	0	2	2	2	2	2	2	804053*
3/8" T-NUT	2	2	2	2	2	2	2	804556*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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ISSUED/REVISED: 02/11/2022

90176 ADA CROW'S NEST



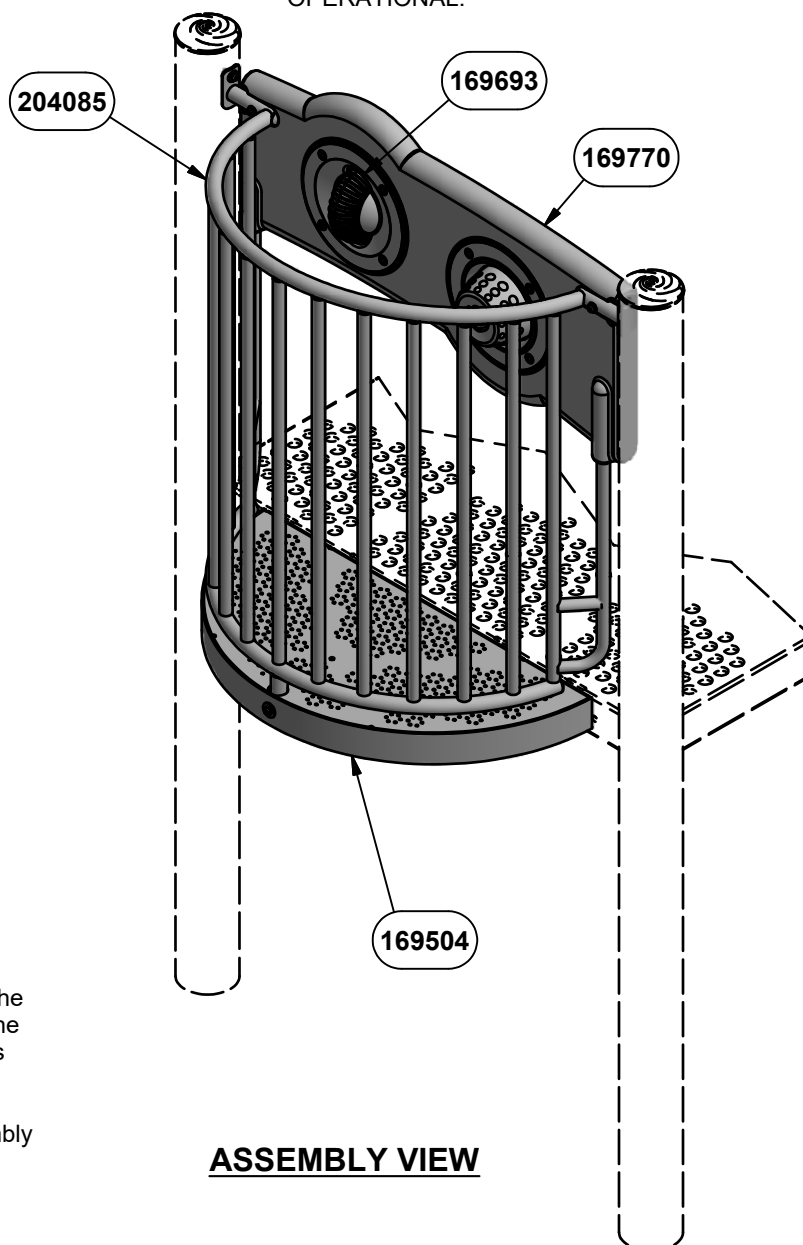
UP TO 5'-0"
DECK HEIGHTS



ALL
DECK HEIGHTS

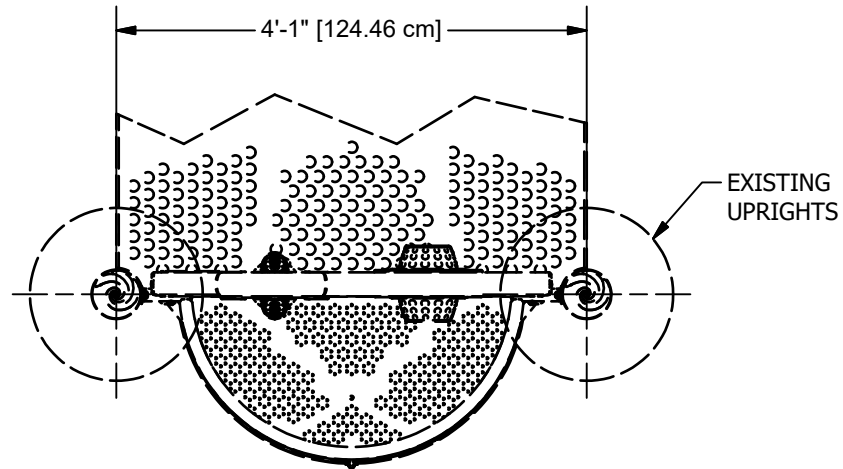
w/ GIZMO PANEL 90176
FOR GIZMOS, SEE INSTALLATION SHEET 4956

NOTE: ALL OPENINGS ON PANEL
MUST BE FILLED WITH A GIZMO
BEFORE PLAYGROUND IS
OPERATIONAL.

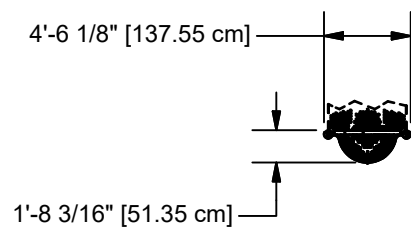


INSTALLATION INSTRUCTIONS

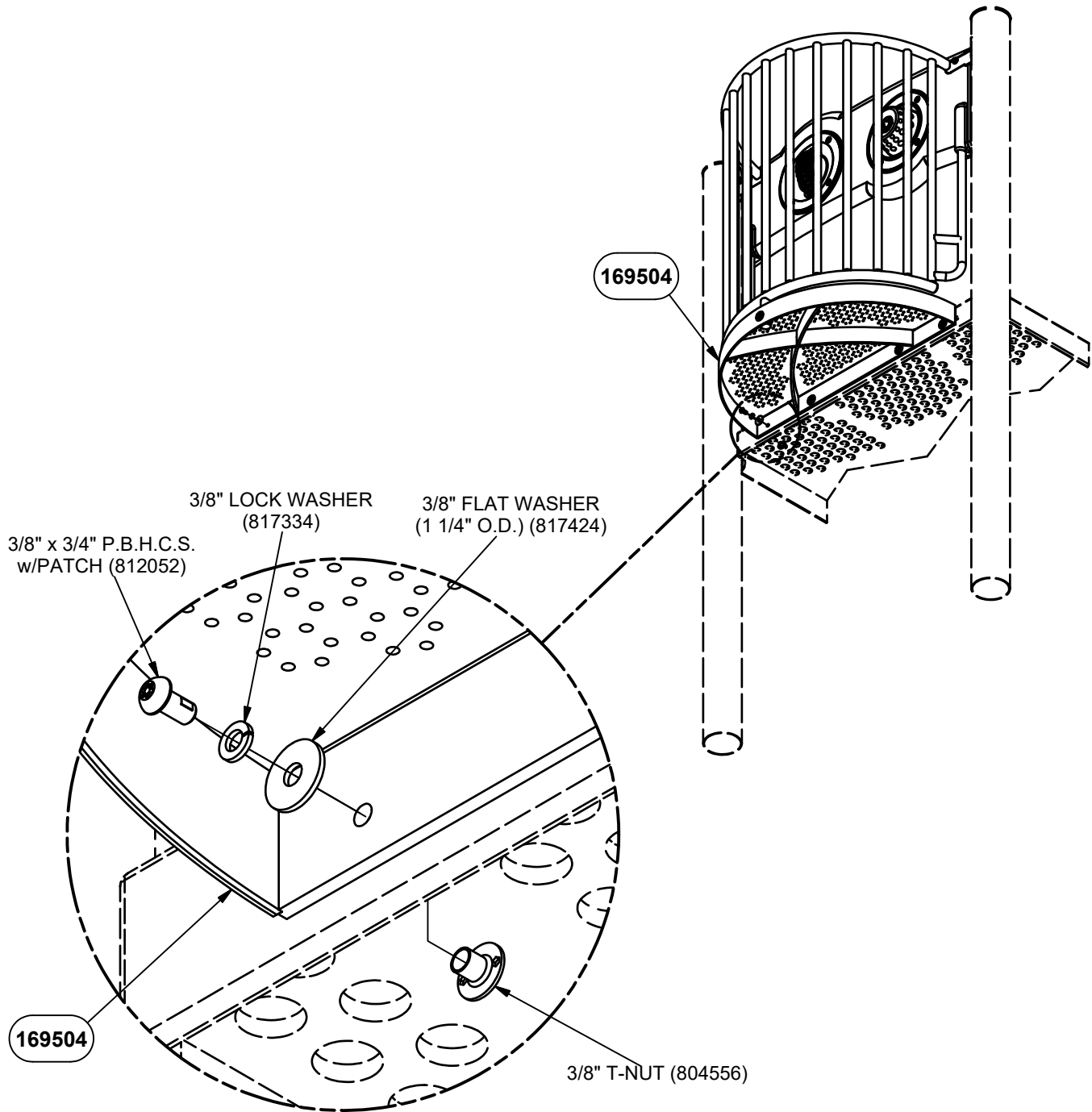
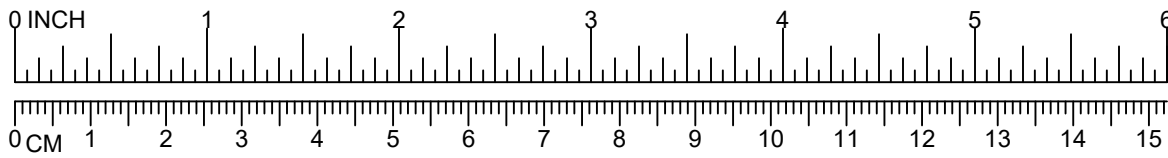
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3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



PLAN VIEW



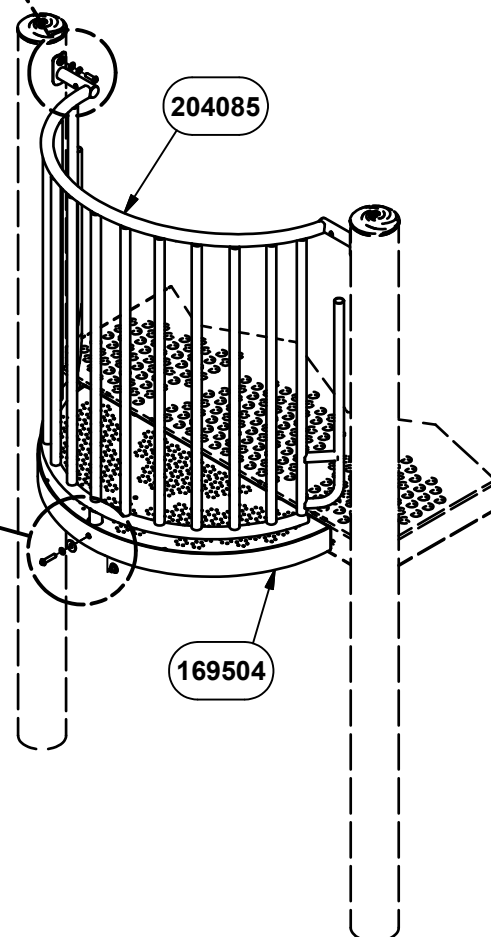
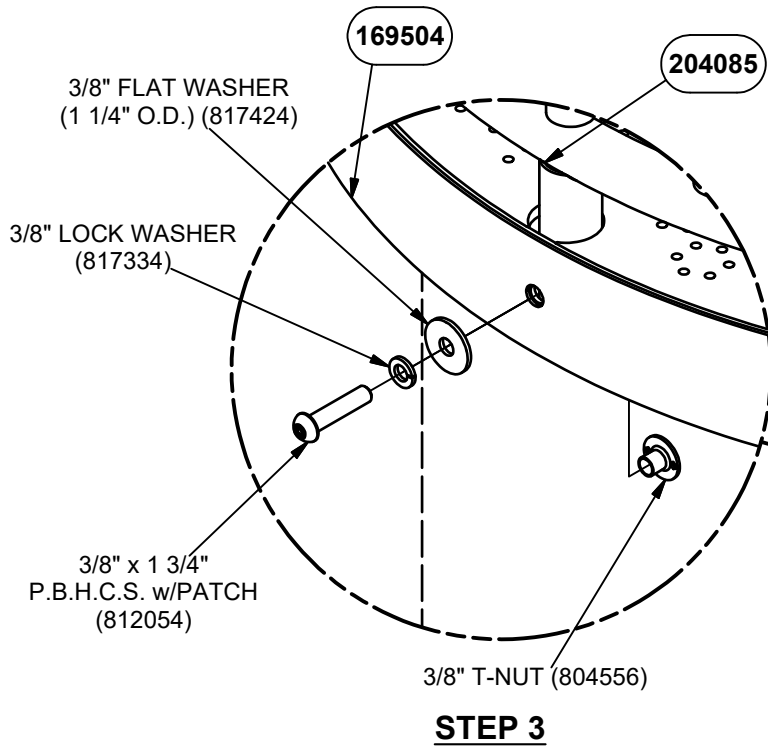
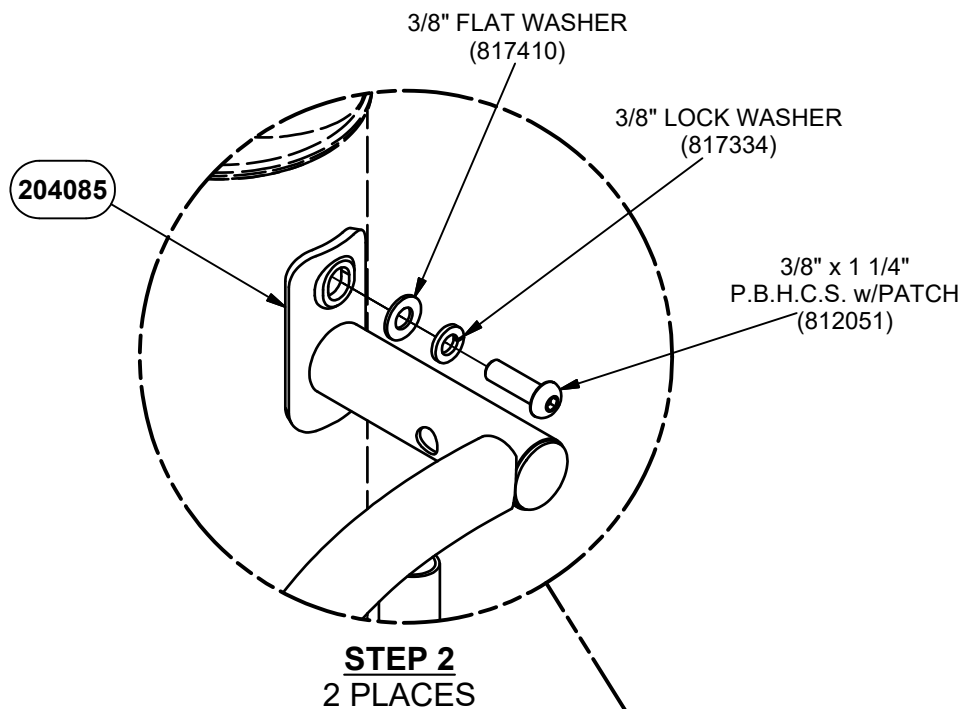
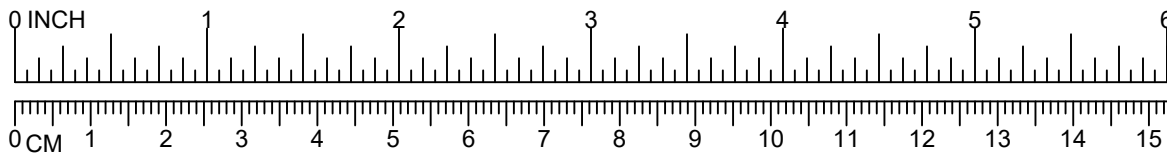
TOP VIEW



STEP 1
4 PLACES

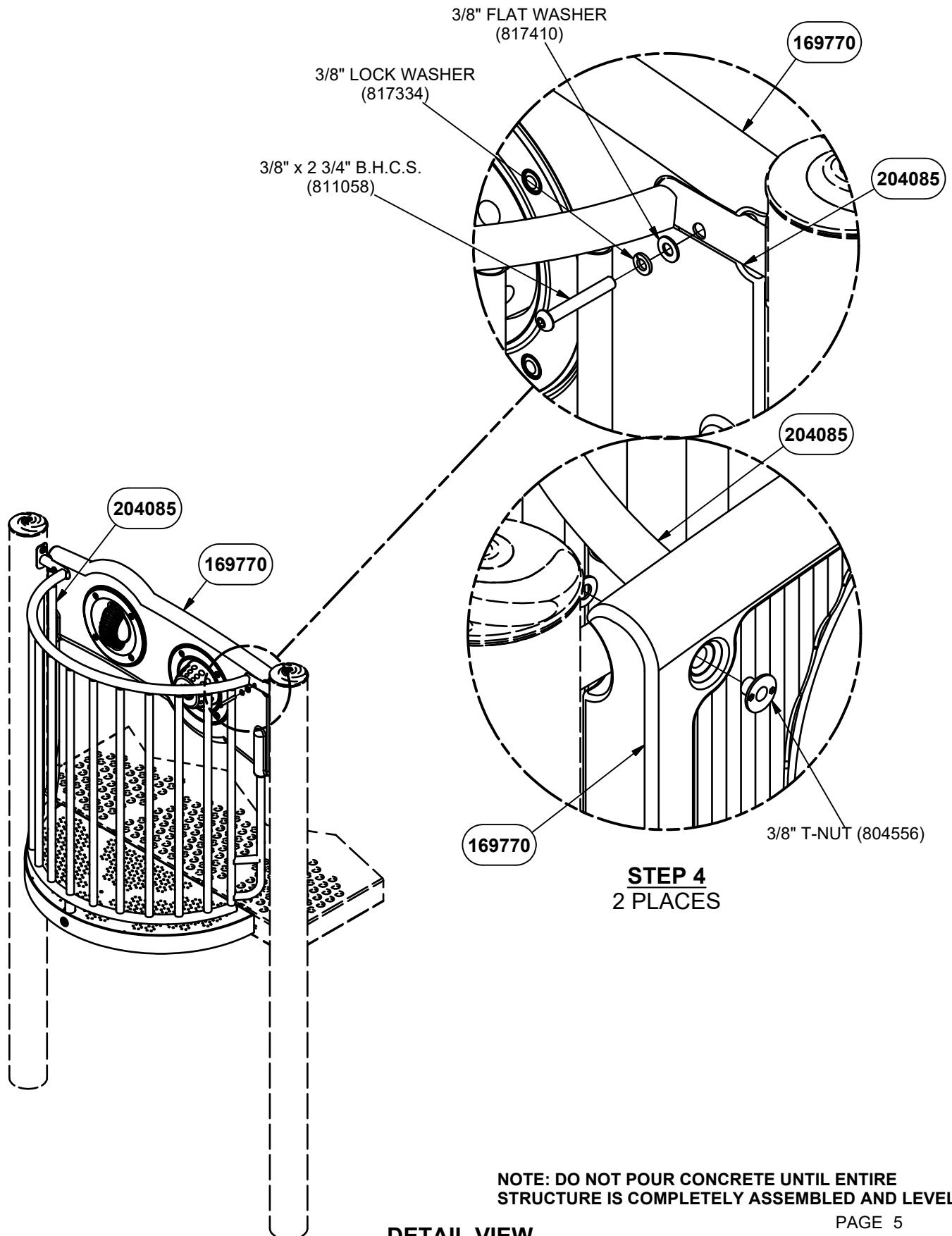
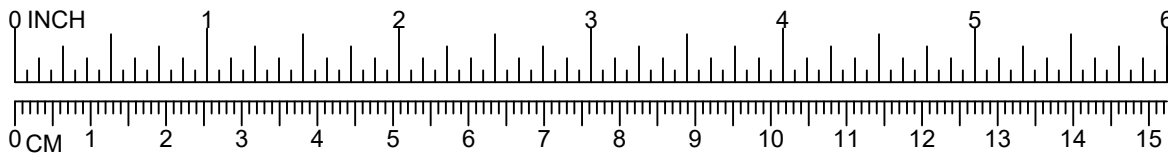
**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW



**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW



Parts List		
DESCRIPTION	QTY	PART NUMBER
ADA GIZMO PANEL	1	169770
CROW'S NEST ENCLOSURE	1	204085
CROW'S NEST PLATFORM (ADA)	1	169504
HARDWARE COMPLETE	1	204095
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	1	812054*
3/8" x 2 3/4" B.H.C.S.	2	811058*
3/8" FLAT WASHER	4	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	5	817424*
3/8" LOCK WASHER	9	817334*
3/8" T-NUT	7	804556*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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ISSUED/REVISED: 5/1/19

90317 TOAD STOOL CLIMBER

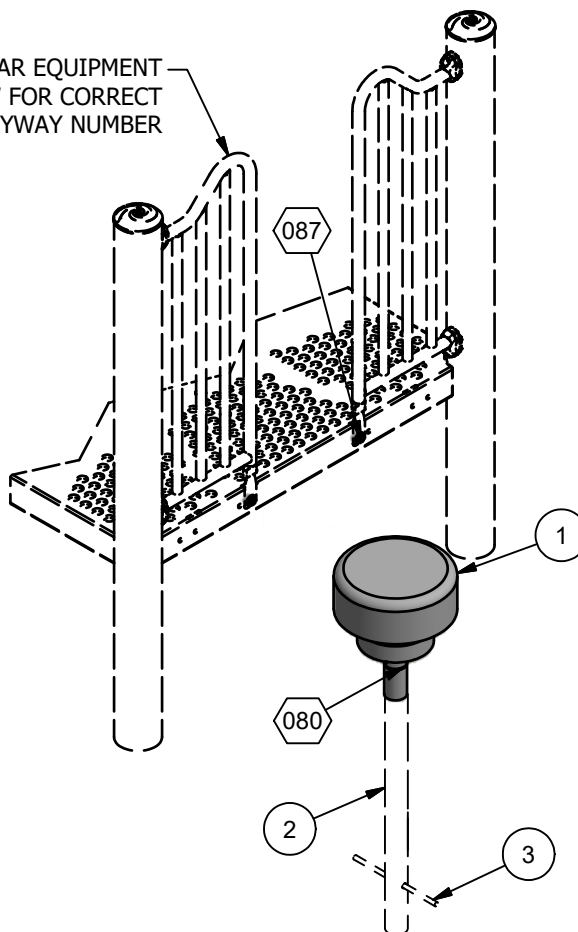
⬡ = INSTALLATION
DETAIL

○ = PARTS LIST
REFERENCE

1'-0" THRU 2'-0" 90317



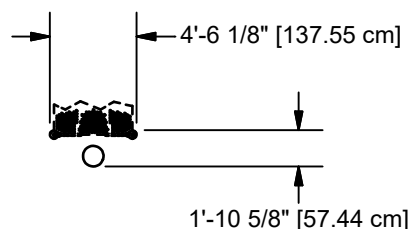
REFER TO MODULAR EQUIPMENT
TOP VIEW FOR CORRECT
ENTRYWAY NUMBER



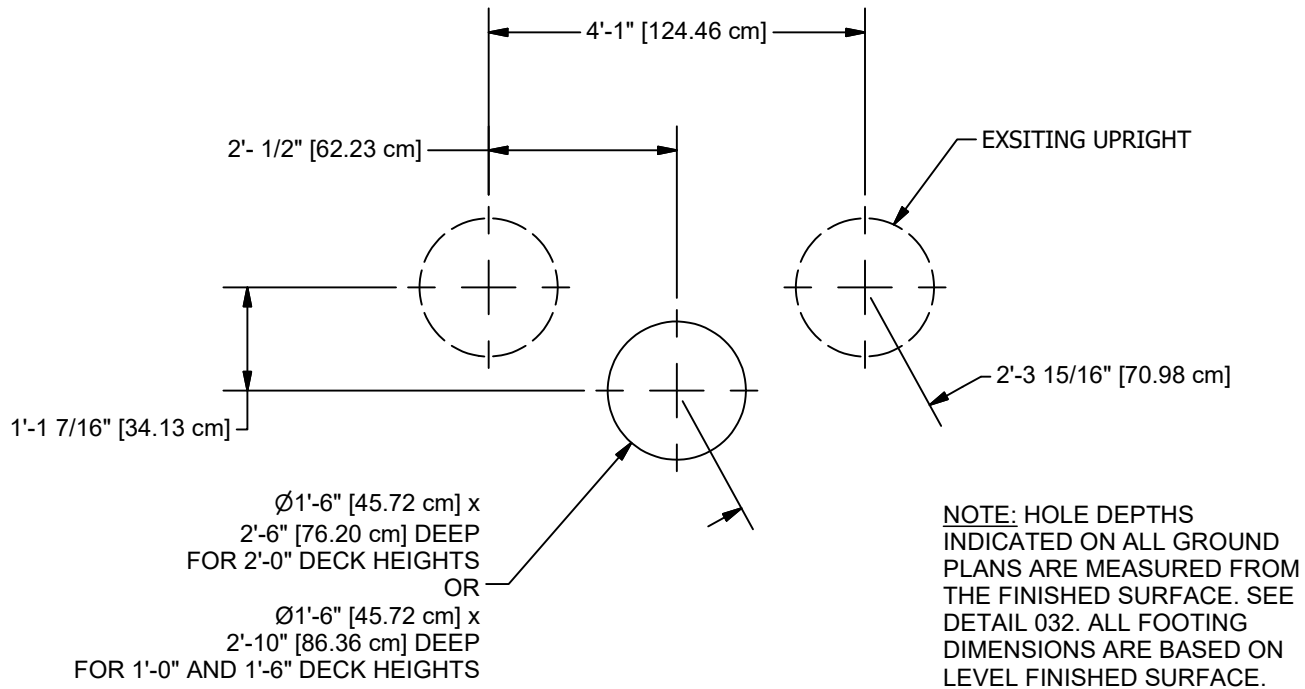
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

ASSEMBLY DRAWING



TOP VIEW



GROUND PLAN

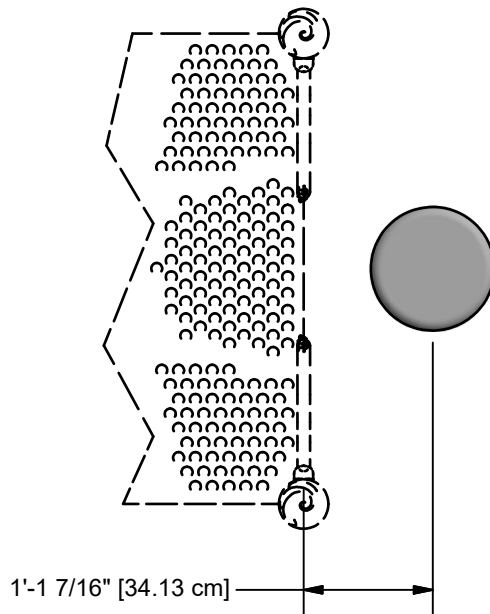
CONCRETE REQUIRED:
.10 CUBIC YARDS
[.08 CUBIC METERS]

Parts List			
REF.	DESCRIPTION	QTY	PART NUMBER
1	TOAD STOOL	1	157594
2	GROUND EXTENSION (16") HEIGHT	1	156351
	HARDWARE COMPLETE	1	203670
3	1/2" ANCHOR ROD	1	135038*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052*
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056*
	3/8" FLAT WASHER (1 1/4" O.D.)	2	817424*
	3/8" LOCK WASHER	4	817334*
	3/8" T-NUT	4	804556*

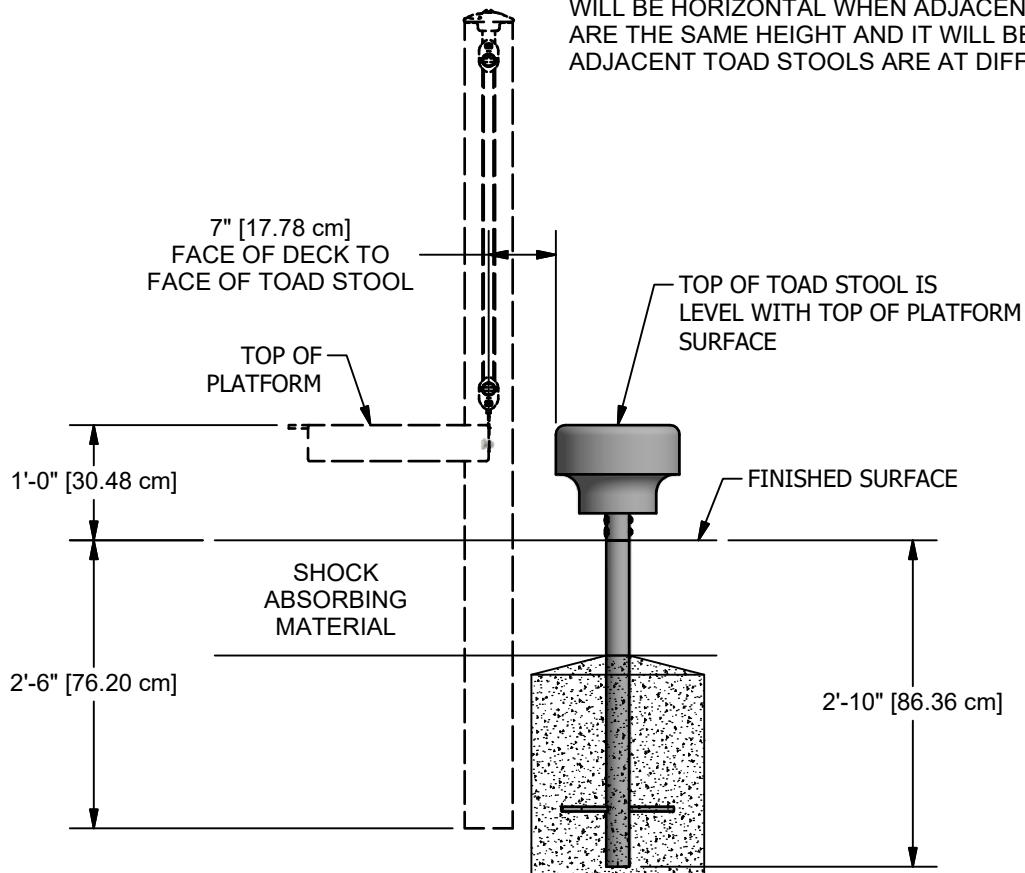
Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

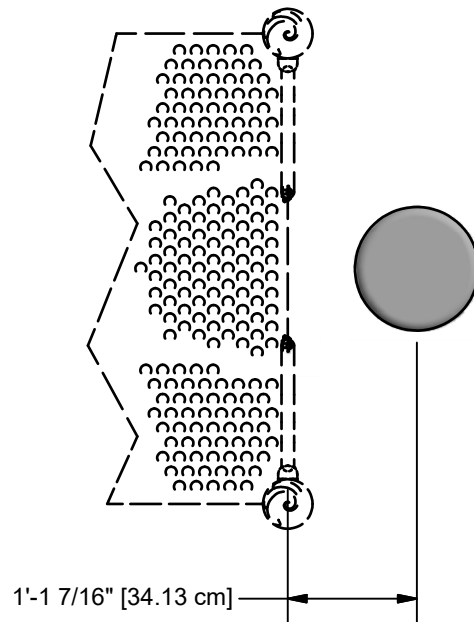
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.



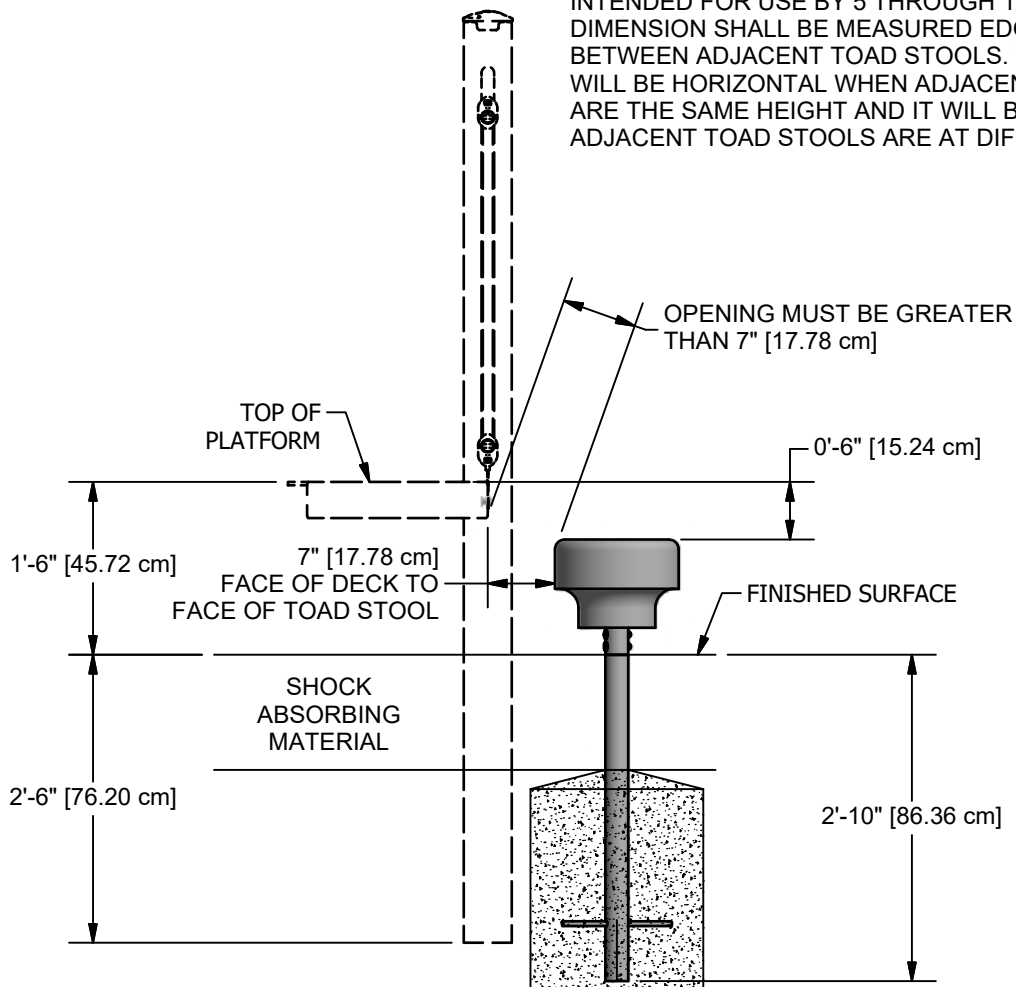
TOAD STOOLS SHALL BE NO GREATER THAN 12" (300 mm) APART WHEN INTENDED FOR USE BY 2 THROUGH 5 YEAR OLDS AND NO GREATER THAN 18" (460mm) APART WHEN INTENDED FOR USE BY 5 THROUGH 12 YEAR OLDS. THIS DIMENSION SHALL BE MEASURED EDGE TO EDGE BETWEEN ADJACENT TOAD STOOLS. THIS MEASUREMENT WILL BE HORIZONTAL WHEN ADJACENT TOAD STOOLS ARE THE SAME HEIGHT AND IT WILL BE DIAGONAL WHEN ADJACENT TOAD STOOLS ARE AT DIFFERENT HEIGHTS.



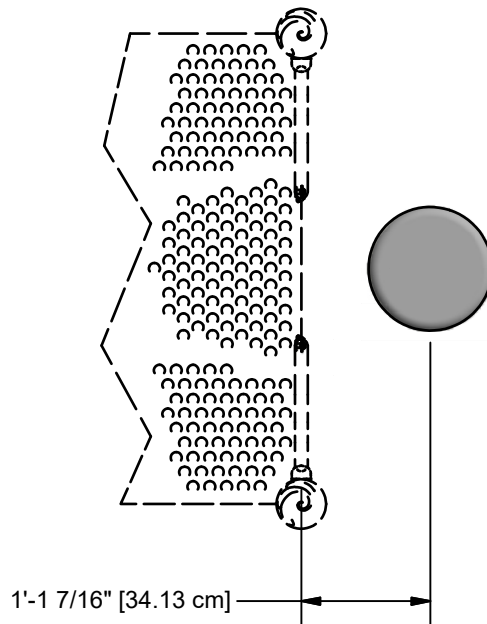
90317
1'-0" DECK HEIGHT
SHOWN



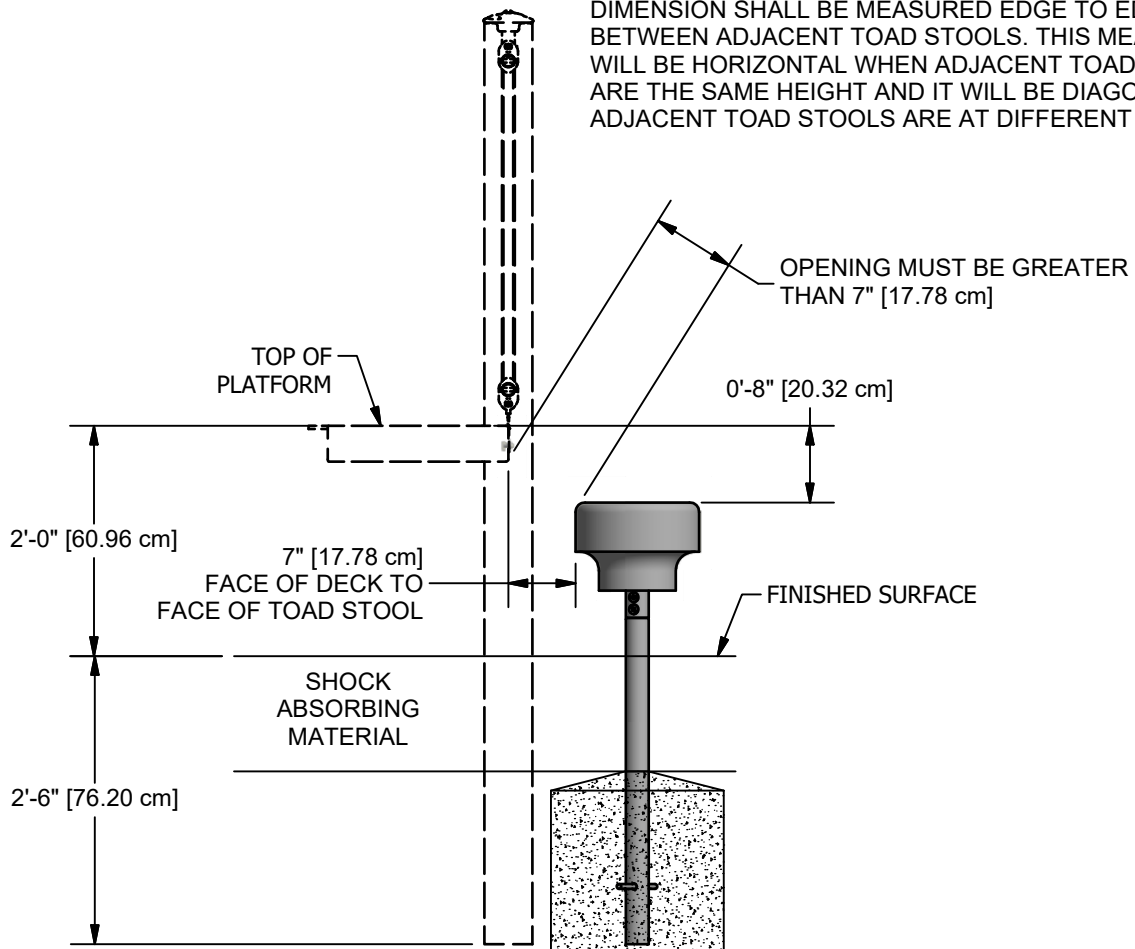
TOAD STOOLS SHALL BE NO GREATER THAN 12" (300 mm) APART WHEN INTENDED FOR USE BY 2 THROUGH 5 YEAR OLDS AND NO GREATER THAN 18" (460mm) APART WHEN INTENDED FOR USE BY 5 THROUGH 12 YEAR OLDS. THIS DIMENSION SHALL BE MEASURED EDGE TO EDGE BETWEEN ADJACENT TOAD STOOLS. THIS MEASUREMENT WILL BE HORIZONTAL WHEN ADJACENT TOAD STOOLS ARE THE SAME HEIGHT AND IT WILL BE DIAGONAL WHEN ADJACENT TOAD STOOLS ARE AT DIFFERENT HEIGHTS.



90317
1'-6" DECK HEIGHT
SHOWN



TOAD STOOLS SHALL BE NO GREATER THAN 12" (300 mm) APART WHEN INTENDED FOR USE BY 2 THROUGH 5 YEAR OLDS AND NO GREATER THAN 18" (460mm) APART WHEN INTENDED FOR USE BY 5 THROUGH 12 YEAR OLDS. THIS DIMENSION SHALL BE MEASURED EDGE TO EDGE BETWEEN ADJACENT TOAD STOOLS. THIS MEASUREMENT WILL BE HORIZONTAL WHEN ADJACENT TOAD STOOLS ARE THE SAME HEIGHT AND IT WILL BE DIAGONAL WHEN ADJACENT TOAD STOOLS ARE AT DIFFERENT HEIGHTS.



90317
2'-0" DECK HEIGHT
SHOWN

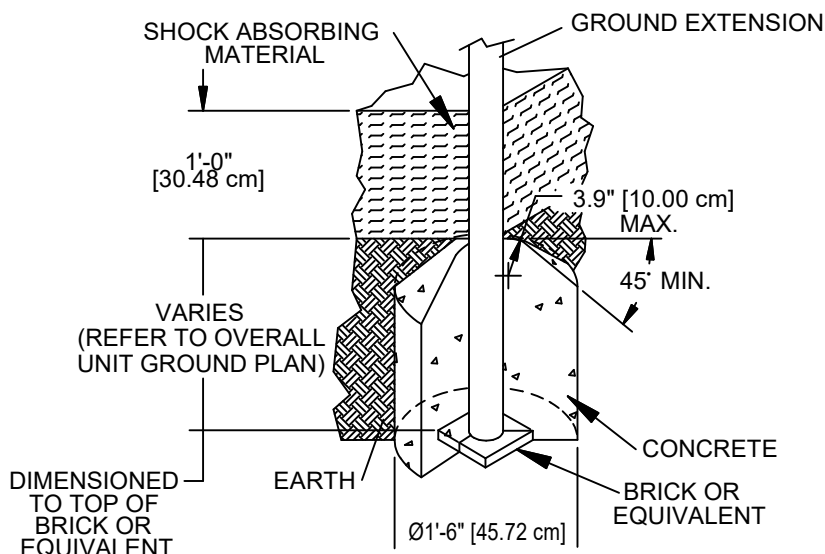
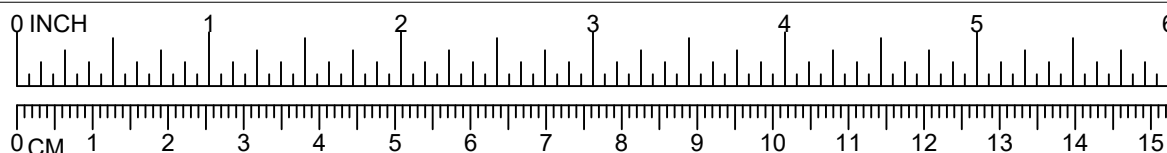
DETAILS -for- 90317

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.

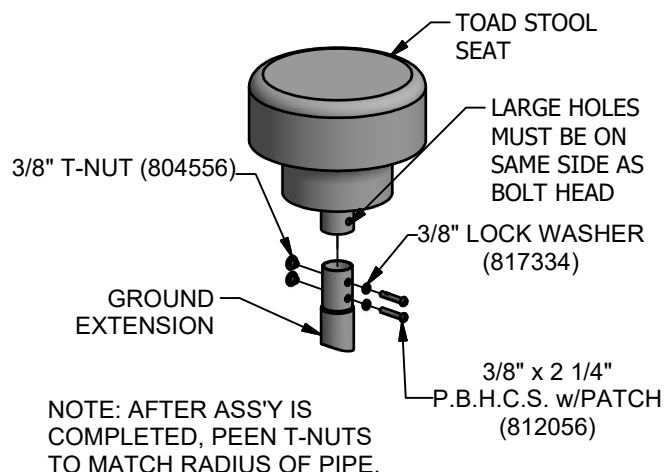


NOTES:

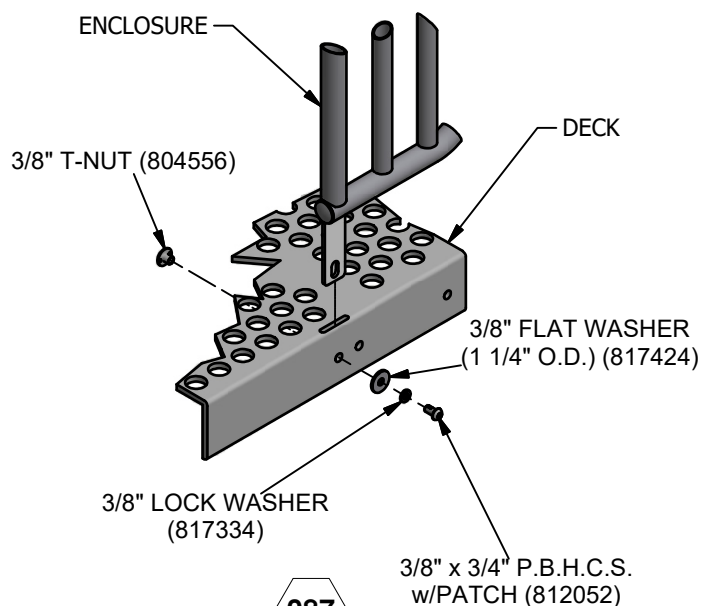
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



080



087

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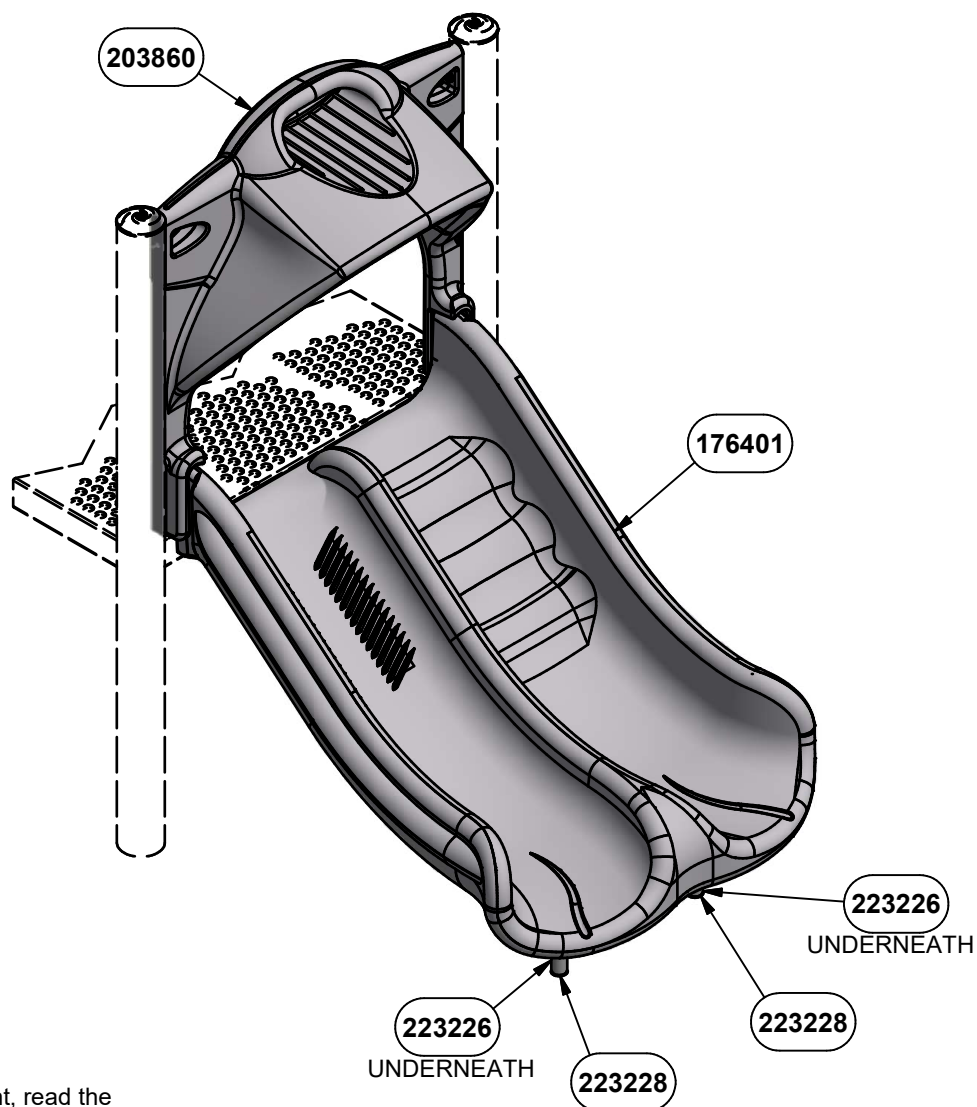
1-800-235-2440

ISSUED/REVISED: 03/05/24

90507

RUMBLE AND ROLL ZIP SLIDE

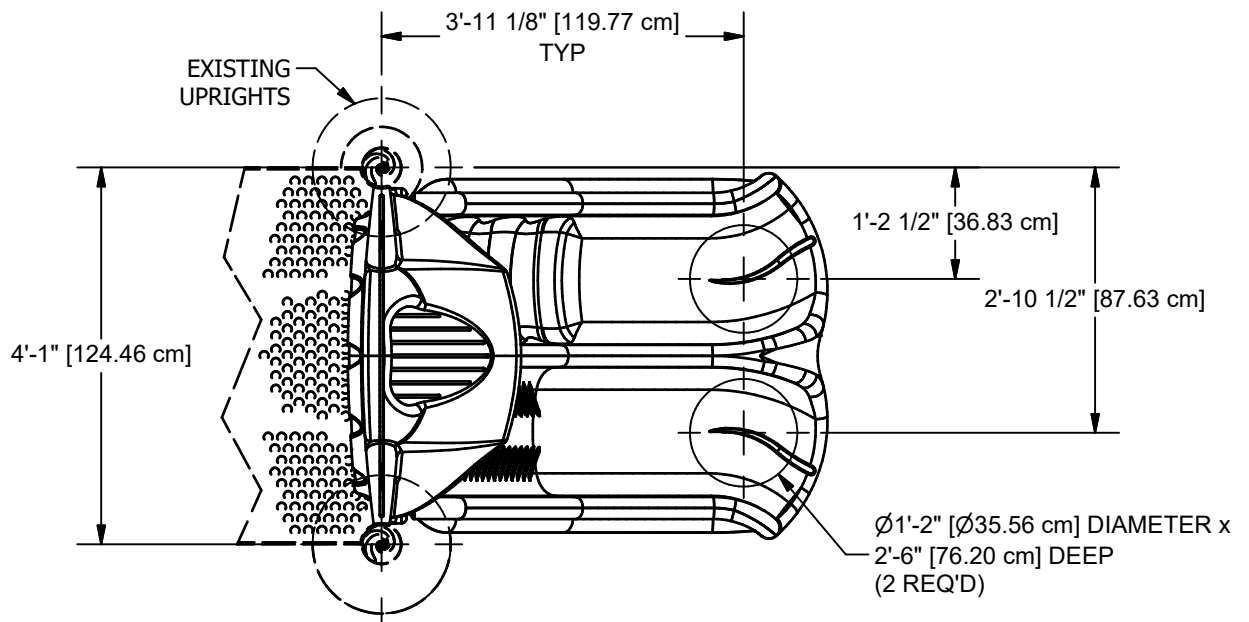
2'-6" & 3'-0" 90507



ASSEMBLY VIEW

INSTALLATION INSTRUCTIONS

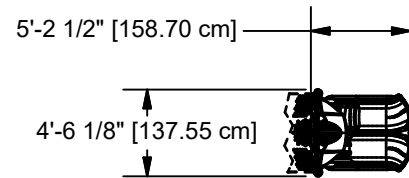
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. **LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.**
4. **DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**



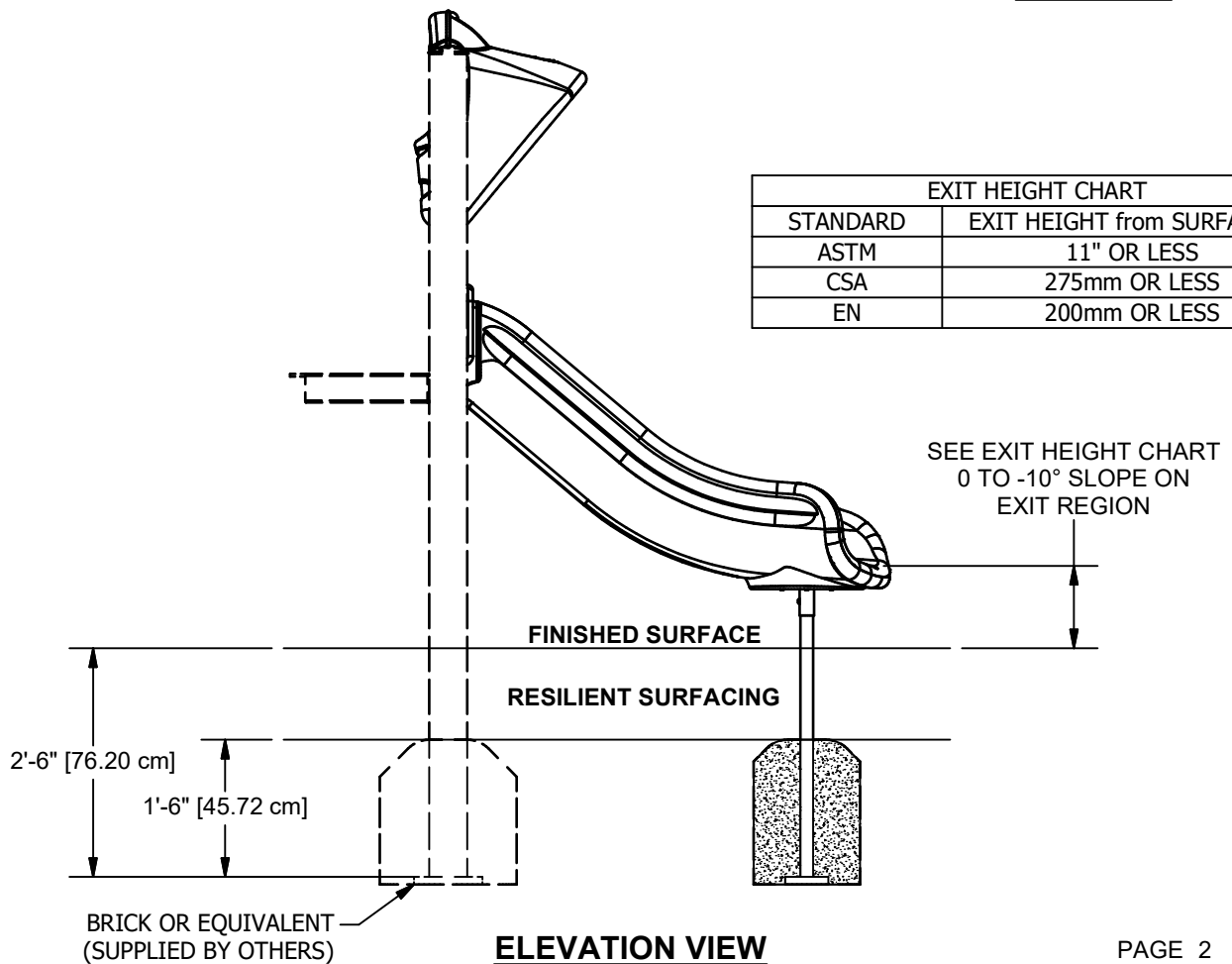
PLAN VIEW

CONCRETE REQUIRED:
0.12 CUBIC YARDS
[0.10 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL PLAN VIEWS ARE MEASURED FROM THE FINISHED SURFACE. SEE ELEVATION VIEW. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

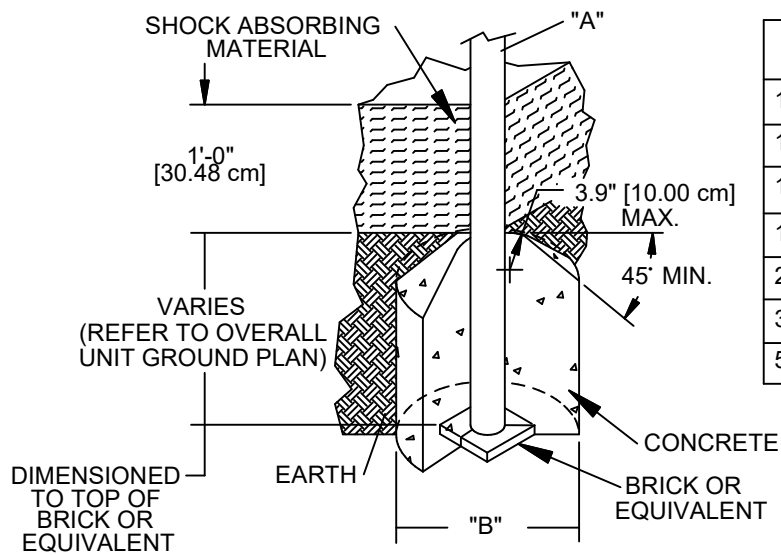


TOP VIEW



EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	11" OR LESS
CSA	275mm OR LESS
EN	200mm OR LESS

ELEVATION VIEW



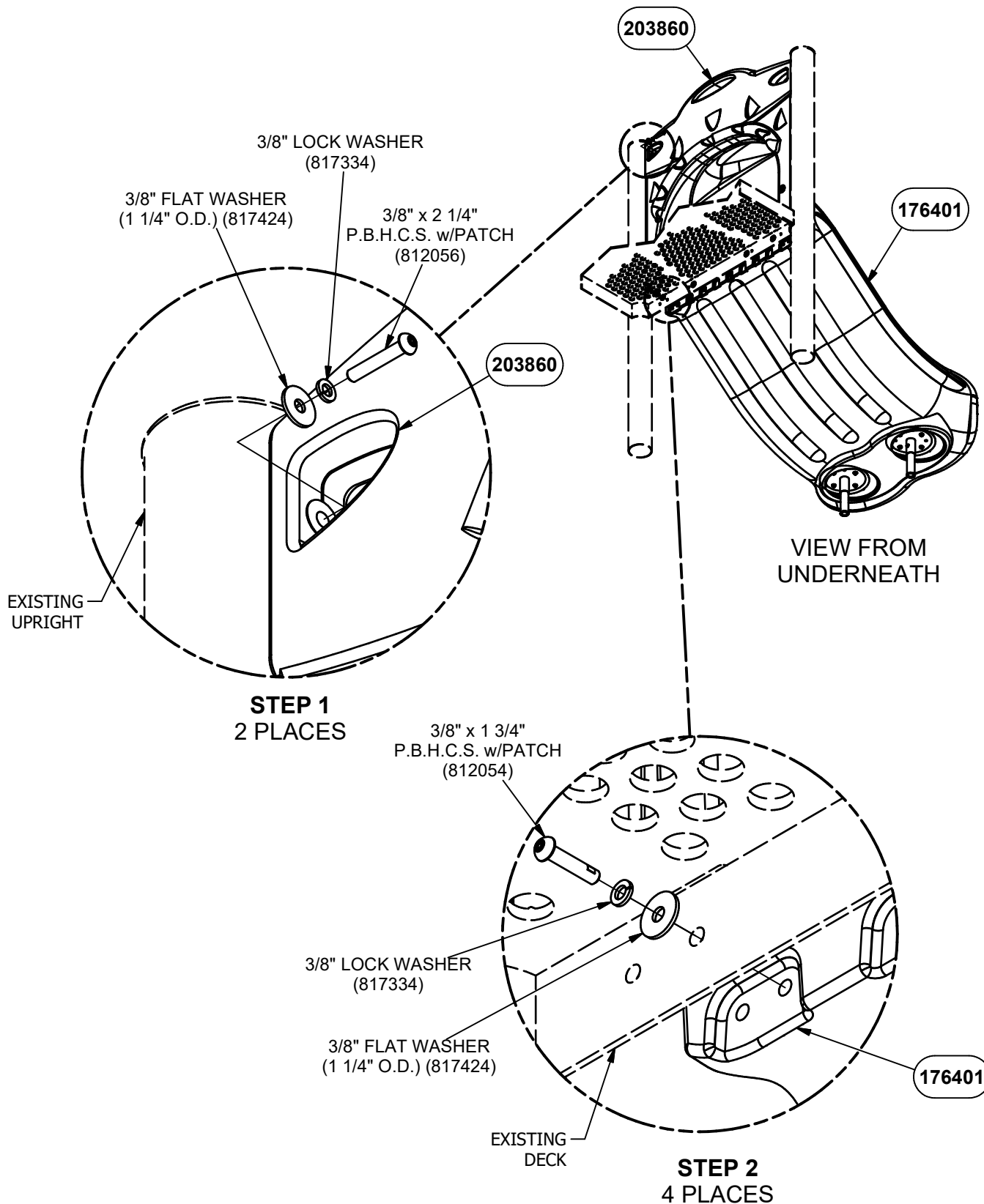
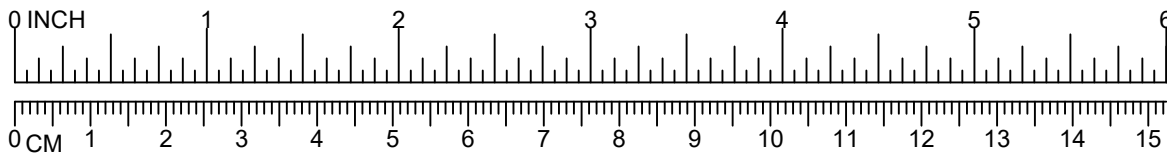
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

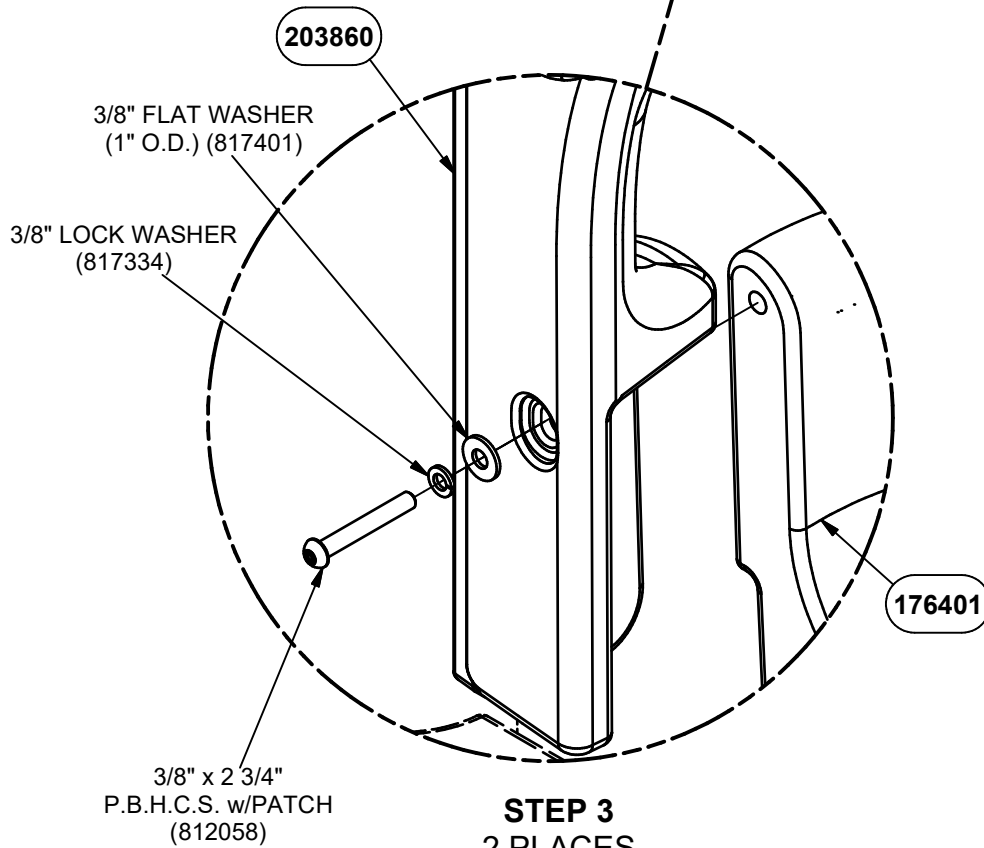
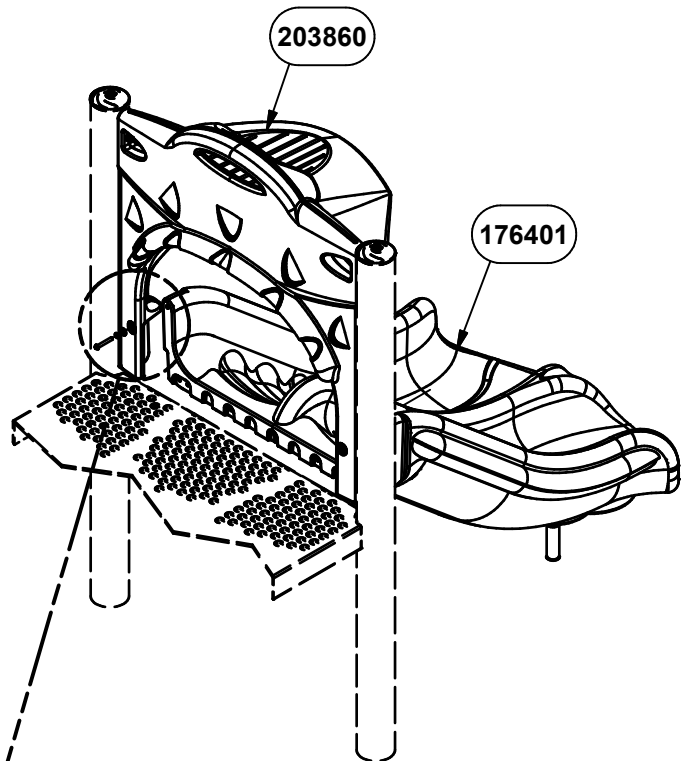
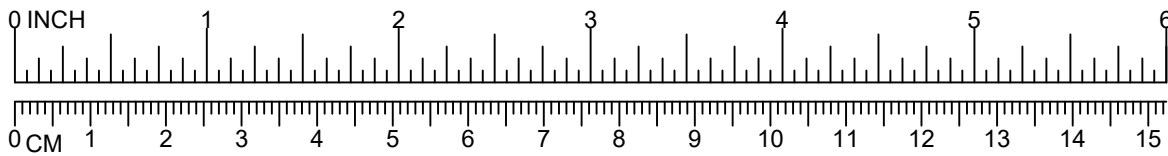
SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

FOOTING DETAIL



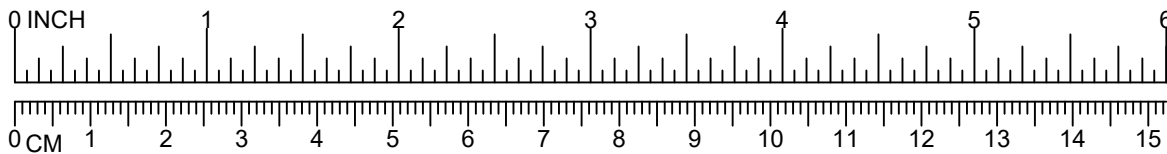
NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.

DETAIL VIEW

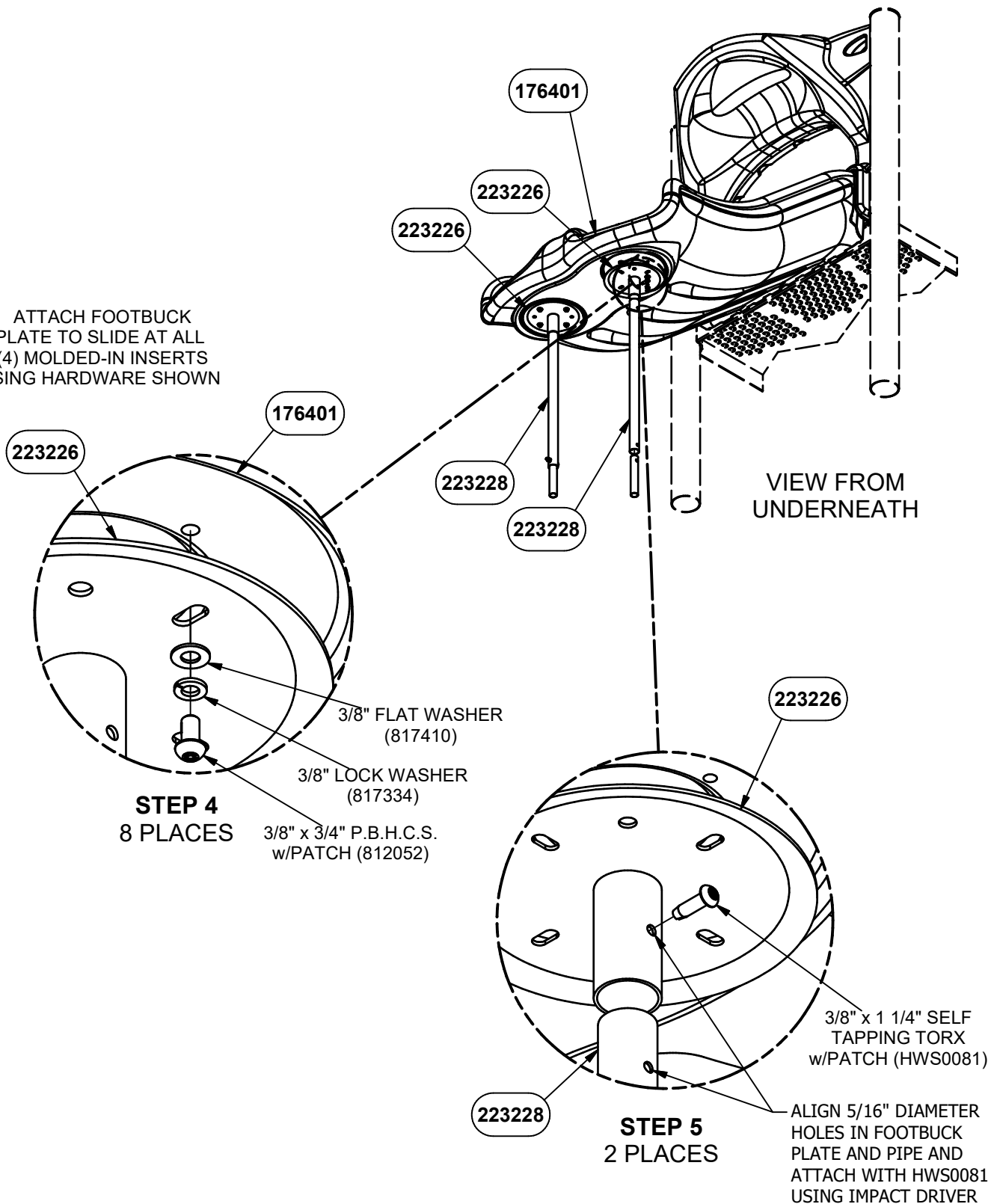


**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW

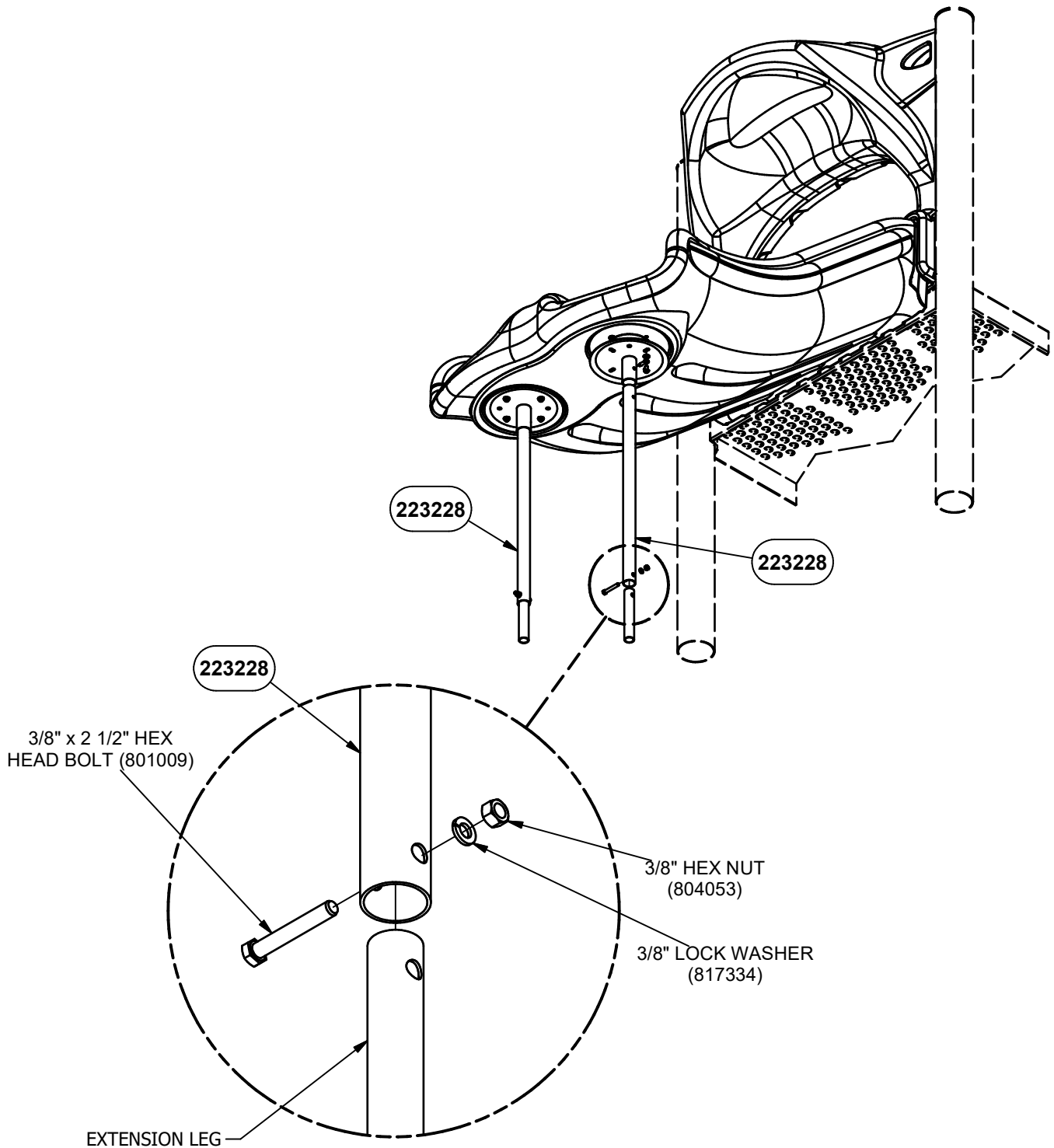
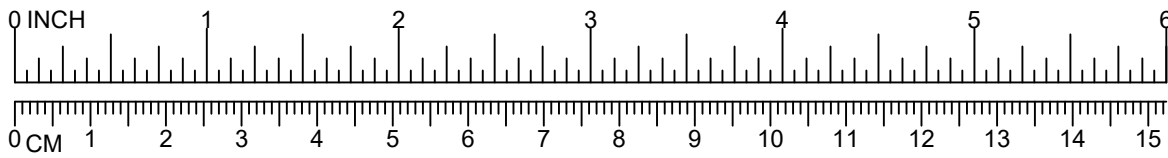


ATTACH FOOTBUCK
PLATE TO SLIDE AT ALL
(4) MOLDED-IN INSERTS
USING HARDWARE SHOWN



**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW



STEP 6
2 PLACES
ONLY REQUIRED
FOR 3' DECK

**NOTE: DO NOT POUR CONCRETE UNTIL ENTIRE
STRUCTURE IS COMPLETELY ASSEMBLED AND LEVEL.**

DETAIL VIEW

Parts List		
DESCRIPTION	QTY	PART NUMBER
DOUBLE ZIP SLIDE HOOD	1	203860
3' RUMBLE & ROLL SLIDE	1	176401
FOOTBUCK PLATE	2	223226
FOOTBUCK PIPE, 32"	2	223228
HARDWARE COMPLETE	1	224095
EXTENSION LEG	2	152110*
3/8" x 3/4" P.B.H.C.S. w/PATCH	8	812052*
3/8" x 1 1/4" SELF TAPPING TORX w/PATCH	2	HWS0081*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	812054*
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056*
3/8" x 2 1/2" HEX HEAD BOLT	2	801009*
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	2	812058*
3/8" FLAT WASHER (1" O.D.)	2	817401*
3/8" FLAT WASHER (1 1/4" O.D.)	6	817424*
3/8" FLAT WASHER	8	817410*
3/8" LOCK WASHER	18	817334*
3/8" HEX NUT	2	804053*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

MAINTENANCE PROCEDURE:

- Periodically check hardware for tightness, and tighten as necessary.
- Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced.
- Check all metal parts for rust, paint loss and touch-up if necessary with paint.
- Check for welded areas and verify integrity.
- Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease.
- Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

PowerScape®



A PLAYCORE Company

1-800-235-2440

ISSUED/REVISED: 7/1/21

90520 WIDE RUNG ENCLOSURE (GUARDRAIL)

w/DOUBLE MOLDED STEERING WHEEL 90520

⬡ = INSTALLATION
= DETAIL

○ = PARTS LIST
REFERENCE



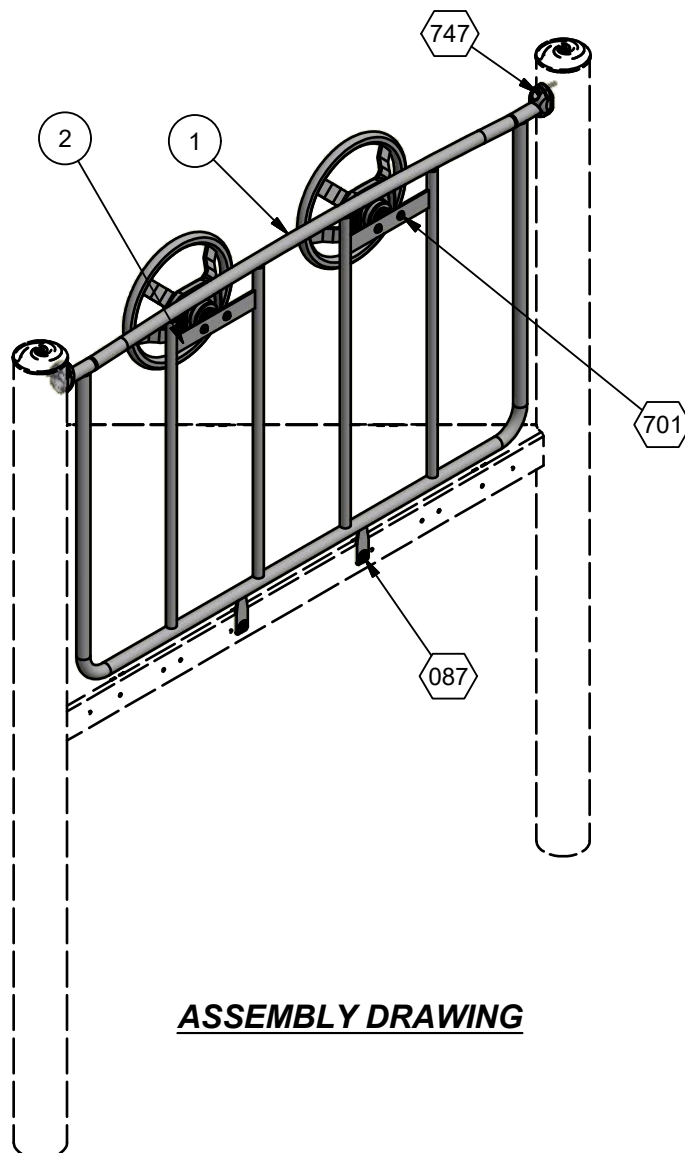
0'-6" THRU 2'-6"



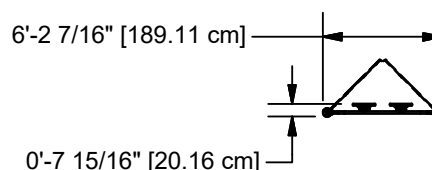
0'-6" THRU 4'-0"

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



ASSEMBLY DRAWING



TOP VIEW

Parts List			
REF.	DESCRIPTION	90520	PART NUMBER
1	WIDE RUNG ENCLOSURE	1	204460
2	STEERING WHEEL ASSEMBLY	2	163235
	TRU-LOC	2	A03650
	HARDWARE COMPLETE	1	204461
	3/8" x 3/4" P.B.H.C.S. w/PATCH	6	812052*
	3/8" x 2" P.B.H.C.S. w/PATCH	2	812055*
	3/8" FLAT WASHER	4	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	2	817424*
	3/8" LOCK WASHER	8	817334*
	3/8" ACORN NUT	4	804002*
	3/8" T-NUT	2	804556*
	ALUM. PIN	2	203568*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

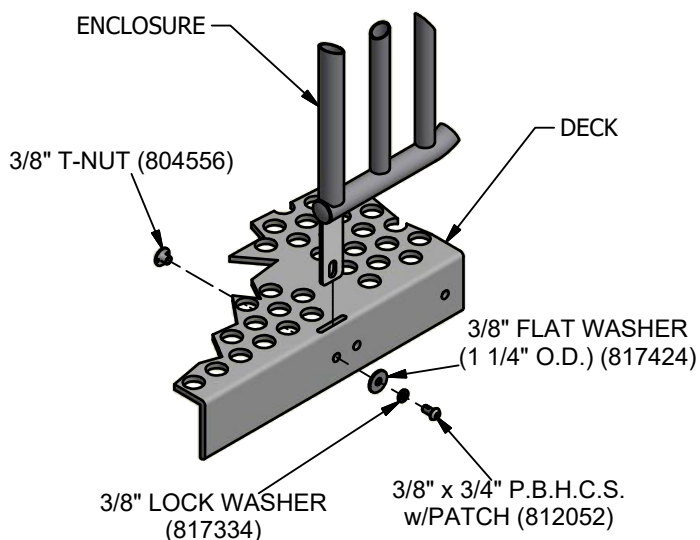
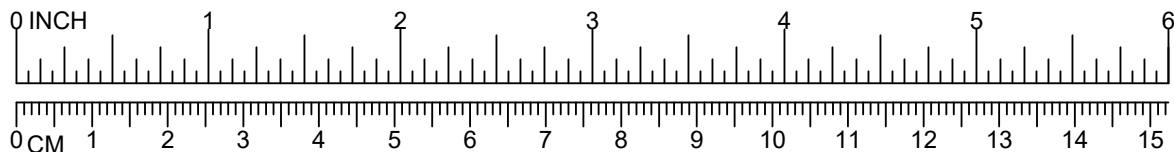
DETAILS -for- 90520

IMPORTANT

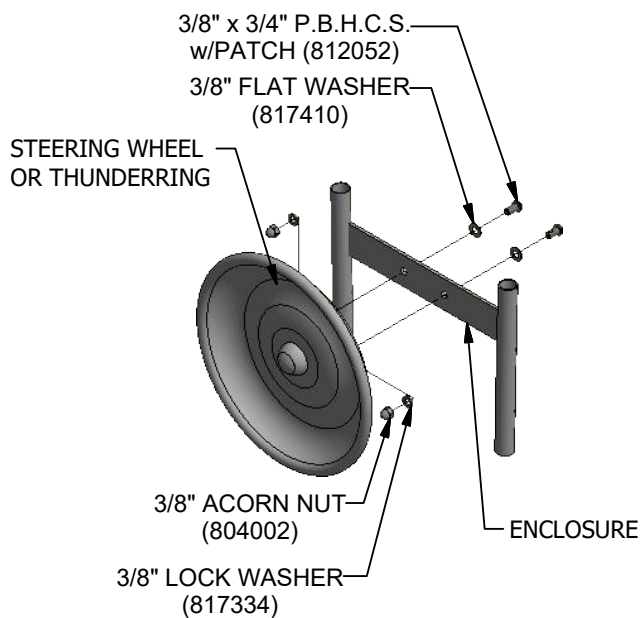
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



087



701

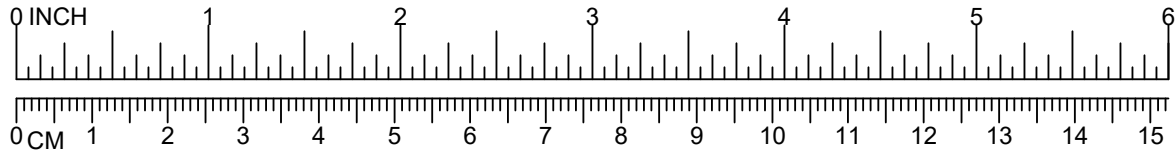
DETAILS -for- 90520

IMPORTANT

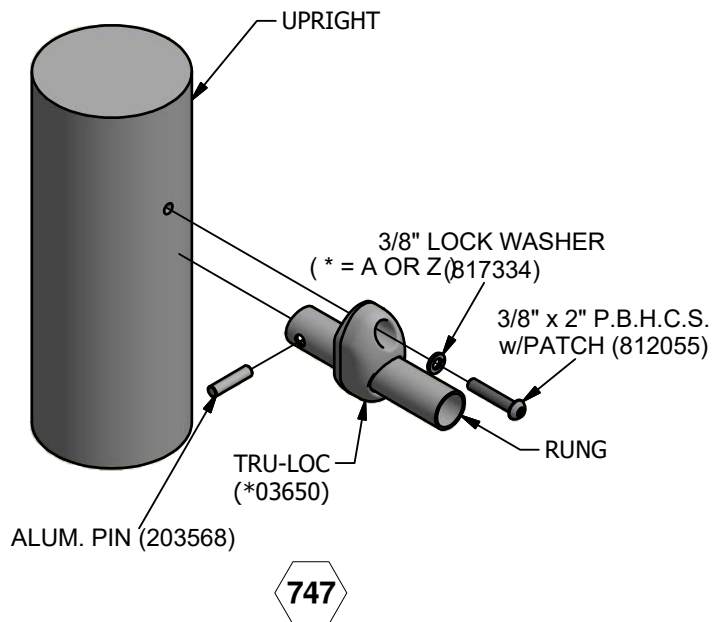
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

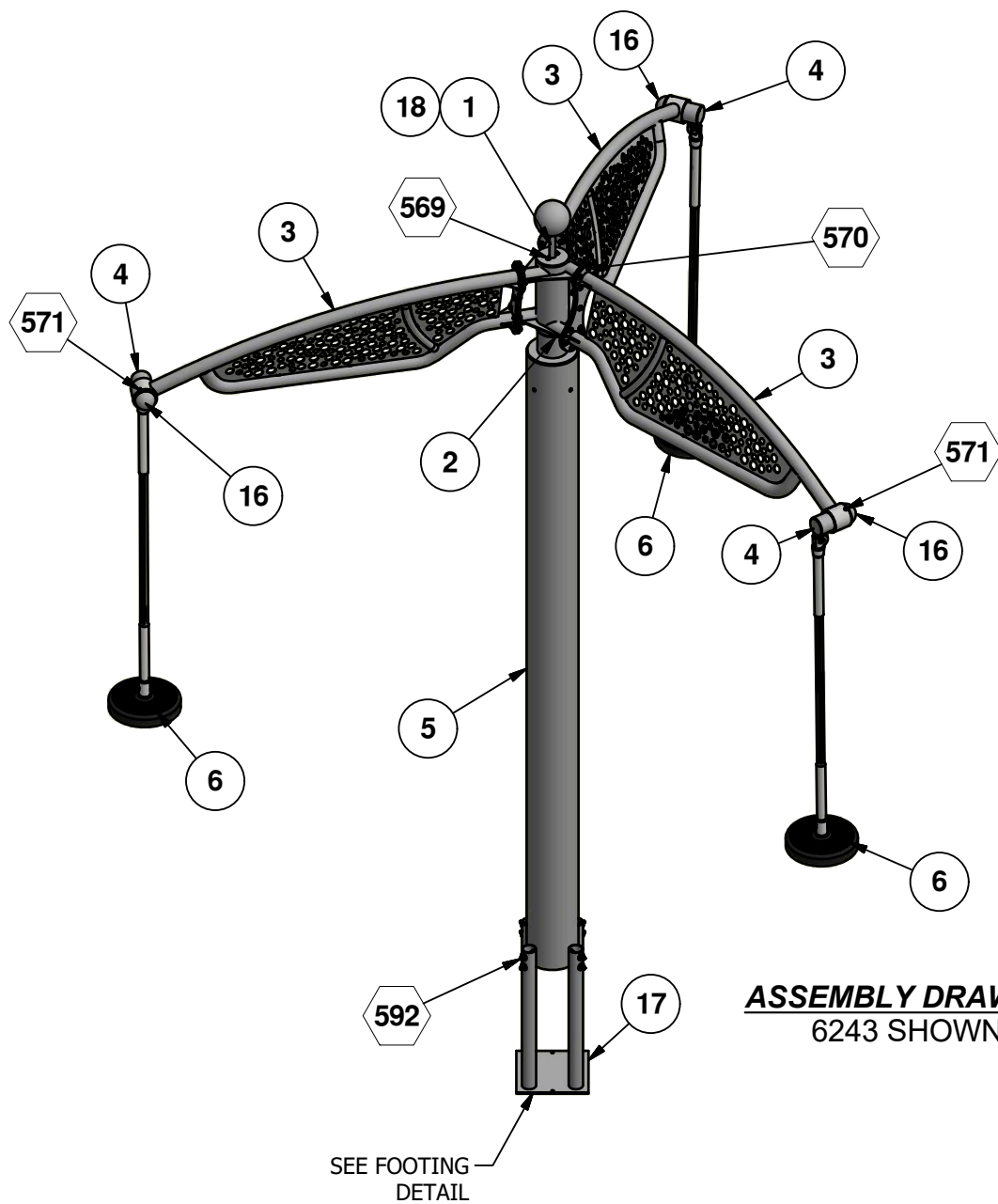
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



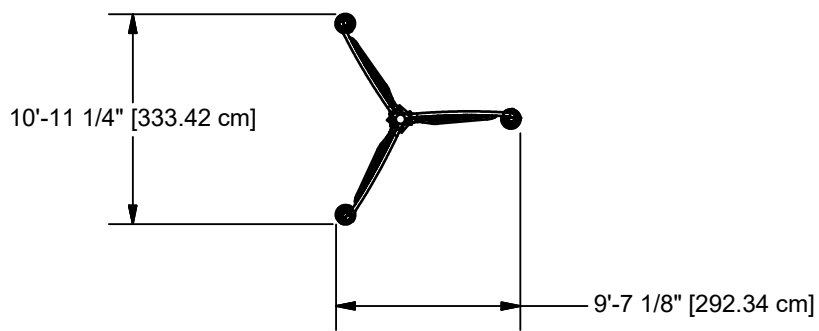
***NOTE:**
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS. FOR
PROPER INSTALLTION.



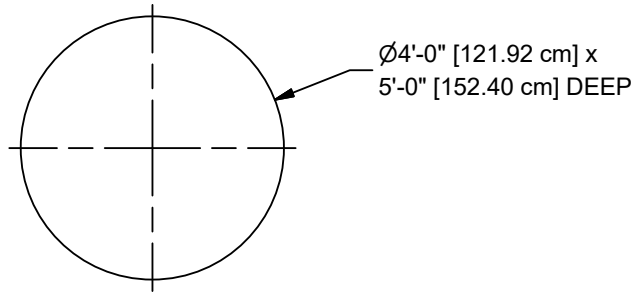
ASSEMBLY DRAWING
6242 SHOWN



ASSEMBLY DRAWING
6243 SHOWN



TOP VIEW
6243 SHOWN



GROUND PLAN

CONCRETE REQUIRED

1.86 CUBIC YARDS

1.42 CUBIC METERS

Parts List				
REF.	DESCRIPTION	6242	6243	PART NUMBER
1	FINIAL WELD ASS'Y	1	1	212559
2	HUB BEARING ASS'Y	1	1	212538
3	BLADE BEARING ASS'Y	3	0	212531
3	BLADE BEARING ASS'Y	0	3	212553
4	PIVOT SHAFT WELD ASS'Y	3	3	212551
5	UPRIGHT PAINT AND PACK	1	1	212704
6	ZIP SEAT 63 1/2" ROPE ASS'Y	3	3	213228
7	TRANSPARENT ACRYLIC BLUE PANEL	1	0	212384
8	TRANSPARENT ACRYLIC GREEN PANEL	1	0	212385
9	TRANSPARENT ACRYLIC RED PANEL	1	0	212386
10	TRANSPARENT ACRYLIC BLUE PANEL	1	0	212388
11	TRANSPARENT ACRYLIC ORANGE PANEL	1	0	212390
12	TRANSPARENT ACRYLIC RED PANEL	1	0	212392
13	TRANSPARENT ACRYLIC YELLOW PANEL	1	0	212394
14	TRANSPARENT ACRYLIC GREEN PANEL	1	0	212396
15	TRANSPARENT ACRYLIC YELLOW PANEL	1	0	212398
16	3 1/2" DOME CAP	3	3	160181
17	EXTENSION ASS'Y	1	1	213301
18	HDPE SPACER	1	1	212695
	HARDWARE COMPLETE	1	0	212561
	HARDWARE COMPLETE	0	1	212562
	5/16" x 3/4" P.B.H.C.S. w/PATCH	51	0	812040*
	5/16" FLATWASHER (3/4" O.D.)	102	0	817404*
	5/16" LOCKNUT	51	0	804359*
	5/16" LOCK WASHER	51	0	817330*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	36	36	812052*
	3/8" x 1" P.B.H.C.S. w/PATCH	2	2	812050*
	3/8" x 3 1/2" HEX HEAD BOLT	8	8	801013*
	3/8" BARREL NUT	33	33	804804*
	3/8" FLAT WASHER	33	33	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	11	11	817424*
	3/8" HEX NUT	8	8	804053*
	3/8" LOCK WASHER	46	46	817334*
	1/4-20 x 3/4" SS SELF DRILLING SCREW	6	6	810072*
	RUBBER WASHER	6	6	212597*

Unless Otherwise Specified, All Units of Measure are Each

** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. PAGE 3

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Assembly and leveling time will be greatly reduced if a transit is used to set location and depth of ground holes.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions

STEP 1: Locate and Dig required hole. (See Footing Detail.)

STEP 2: Attach the Hub Bearing and Finial to the Upright Weld Ass'y using Detail 569.

STEP 3: Attach Extension Weld Ass'y to Main Upright using Detail 592.

STEP 4: Attach Blades to the Hub Bearing using Detail 570.

STEP 5: With sufficient man power or mechanical assistance lift and place assembly in ground hole. Bracing will be necessary to hold in upright position.

STEP 6: Attach Pivot Shafts and Cables to Blades using Detail 571.

STEP 7: (6242 only) Attach Acrylic to Blades using Detail 464.

STEP 8: Tighten all nuts, bolts, etc.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

STEP 9: Check and make sure the upright is vertical and plumb. Make adjustments as required.

STEP 10: Pour concrete into footing. Allow 48 hours cure time before use.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.
- ☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

SPECIFICATIONS

MAIN UPRIGHT: Shall be constructed from 8-5/8" O.D. x .250" (Schedule 20) wall steel pipe, 5" O.D. x .180 (7 GAUGE) wall galvanized steel tubing, 1/4" H.R. flat steel, and 2-3/4" O.D. machined steel shaft. The Main Upright shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

EXTENSION: Shall be an all welded assembly constructed from 2-3/8" O.D. x .134 (10 GAUGE) wall galvanized steel tubing and 1/4" thick H.R. steel Mounting Plate.

HUB BEARING: Shall be fabricated from 5-1/2" O.D. x .500" wall D.O.M. MEC. Tube, 2-3/8" O.D. x .154 (Schedule 40) wall galvanized steel tubing, 3/16" H.R. steel gussets, and 3/8" thick H.R. steel Mounting Plates. The Hub Bearing shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication. Two bearings shall be press fit into the Hub Bearing weld assembly.

BLADE: Shall be constructed from 2-3/8" O.D. x .134 (10 GAUGE) wall galvanized steel tubing, 1-5/16" O.D. x .133" (10 gauge) wall galvanized steel tubing, 1/8" and 3/16" H.R. flat steel, 4" O.D. machined steel collar and 3/8" thick H.R. steel Mounting Plates. The Blade shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication. Two bearings shall be press fit into the Blade weld assembly.

PIVOT SHAFT: Shall be constructed from 1/2" H.R. flat steel and 3-1/4" O.D. machined steel shaft. The Pivot Shaft shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

COLORED ACRYLIC: Shall be made from 1/4" transparent acrylic.

ZIP SEAT: Shall be constructed out of 1/8" thick 3003-H14 Aluminum Alloy, with a coating of EPDM Black Polymer. Hardness: ASTM D2240 Shore A Points 61, Tensile ASTM D412 Min. Mpa 10.1, Elongation ASTM D412 Min% 697.

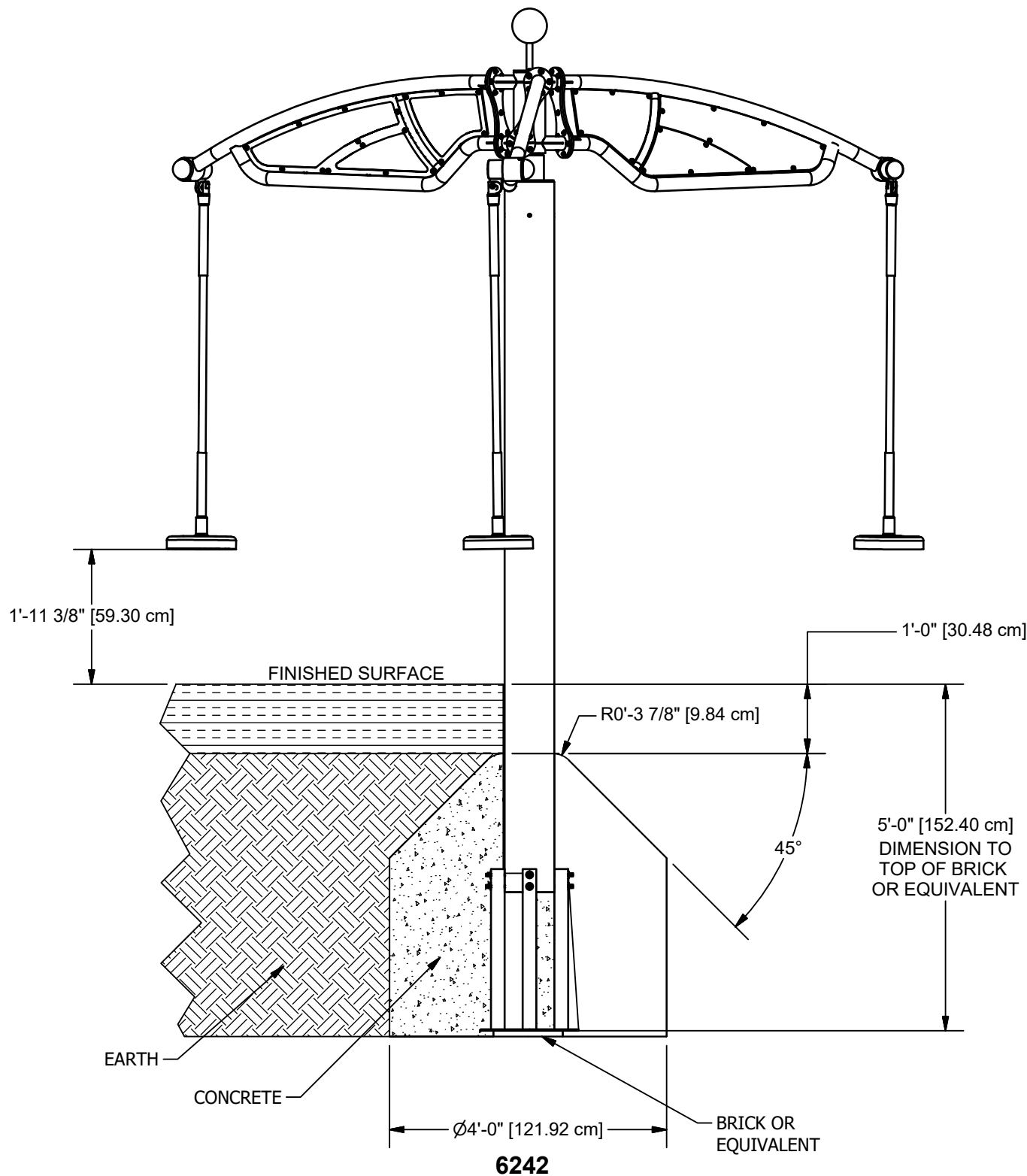
POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

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

SPECIFICATIONS: GAMETIME © has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH BEFORE APPLYING SURFACING.

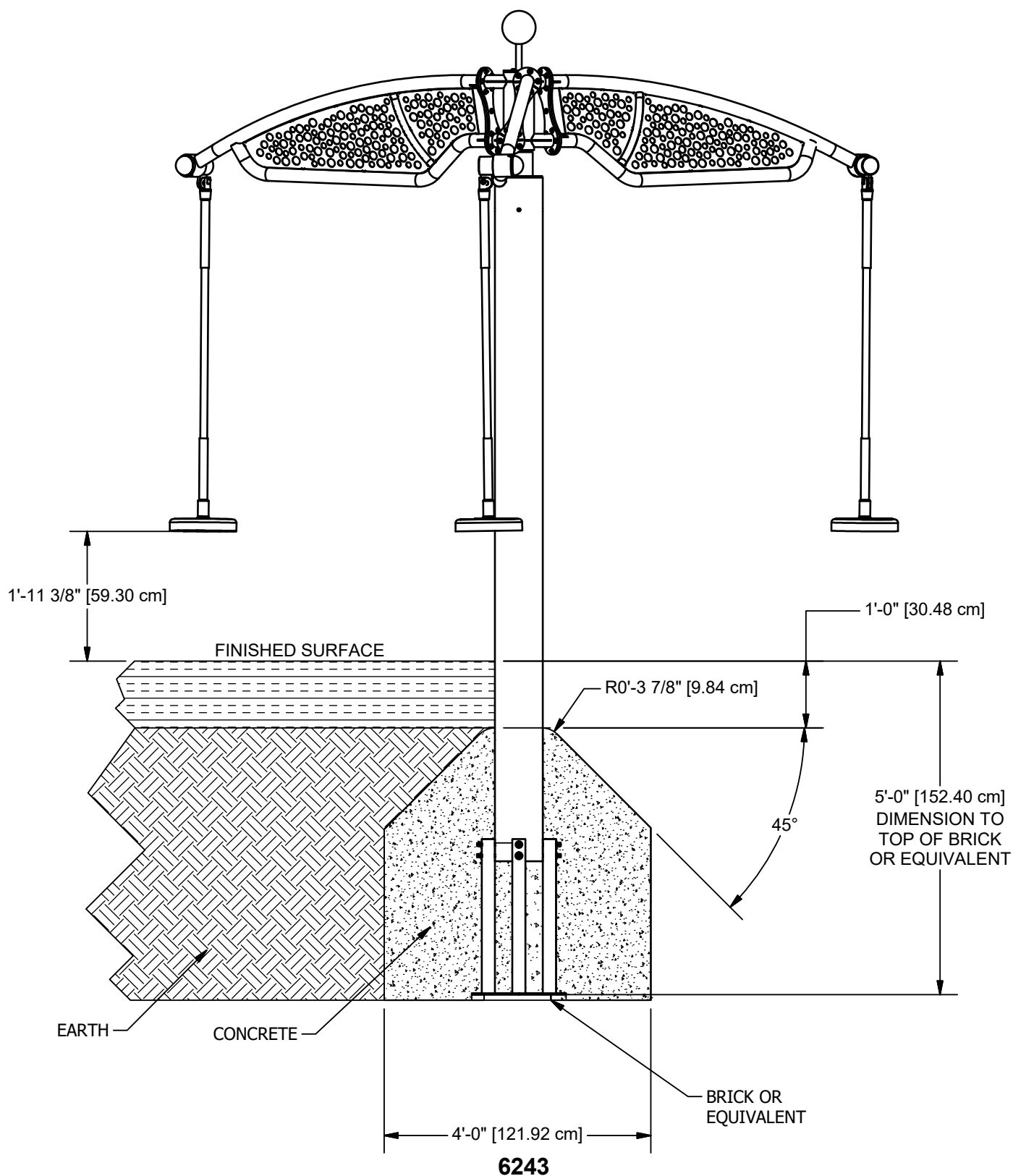
CONCRETE REQUIREMENTS:
SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI.
SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1.



FOOTING DETAIL

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH BEFORE APPLYING SURFACING.

CONCRETE REQUIREMENTS:
APPROXIMATELY .79 CUBIC YARDS (.60 CUBIC METERS) OF CONCRETE REQUIRED. SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI. SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1.



FOOTING DETAIL

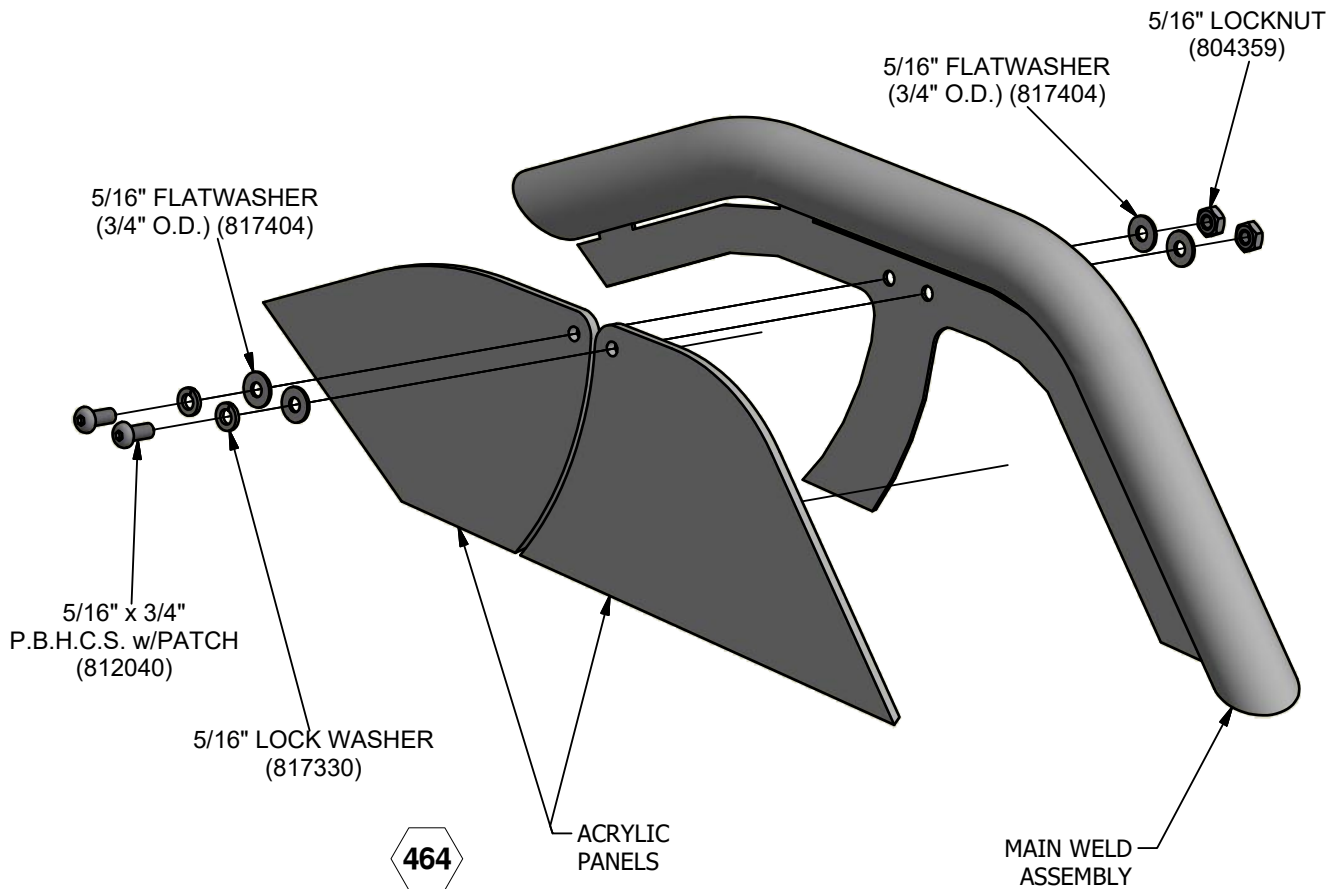
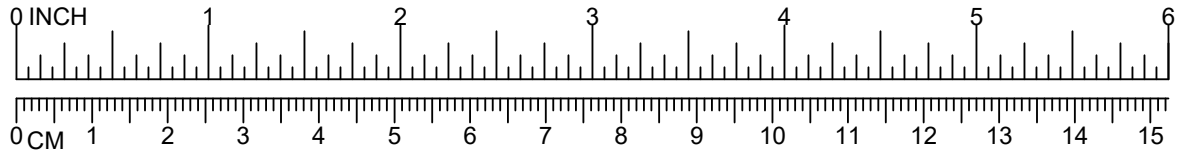
DETAILS -for- 6242 & 6243

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



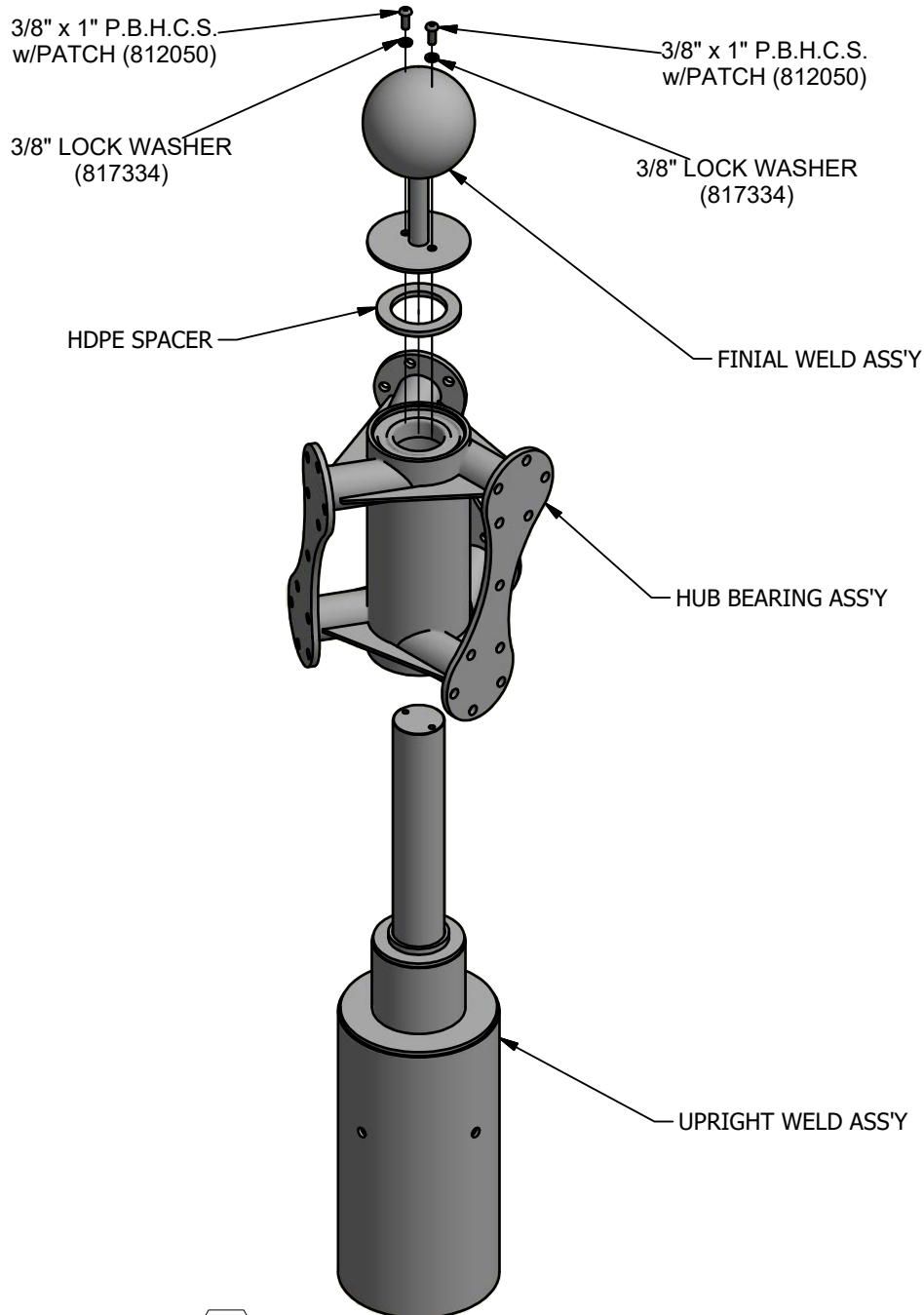
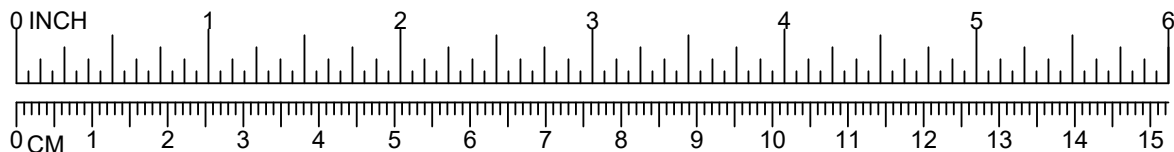
DETAILS -for- 6242 & 6243

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

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569

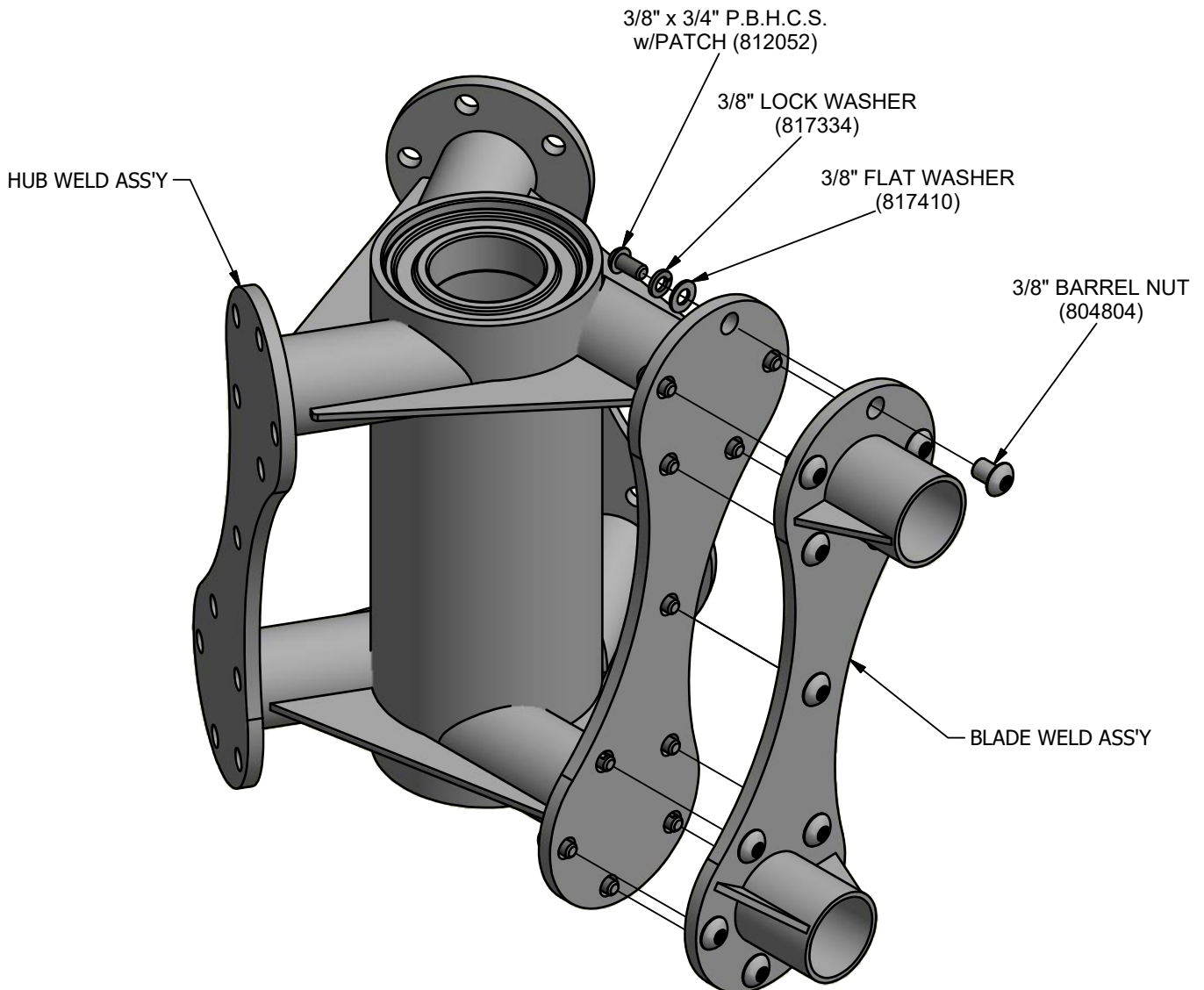
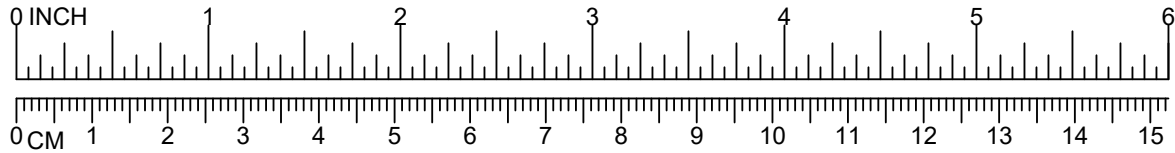
DETAILS -for- 6242 & 6243

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570

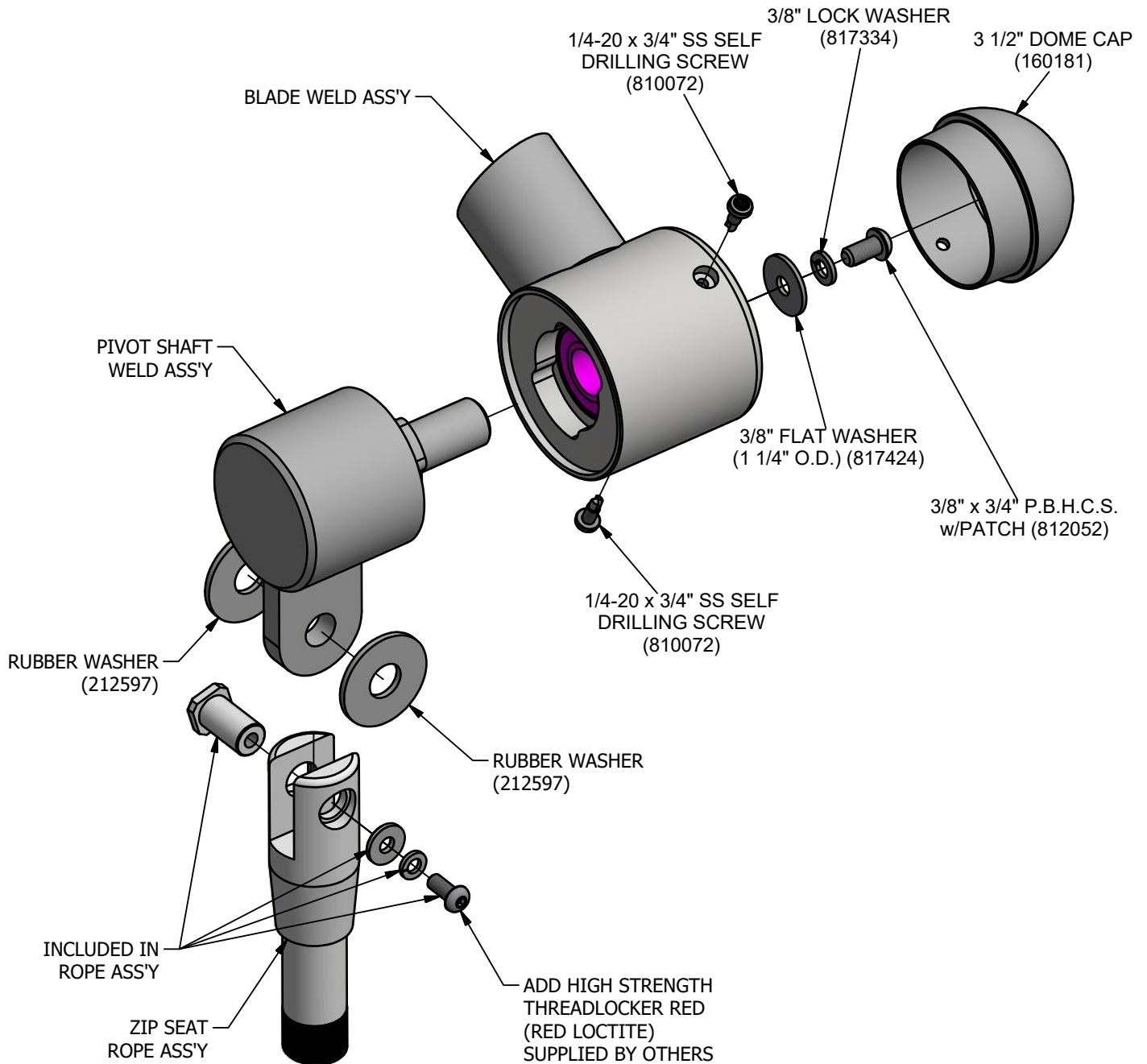
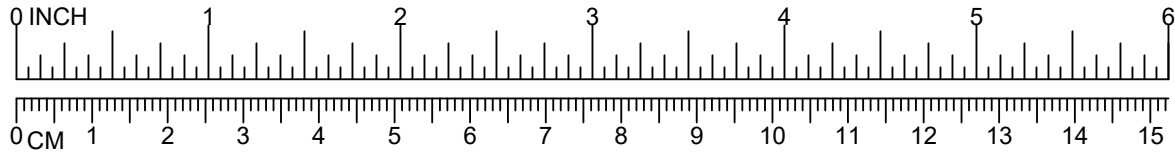
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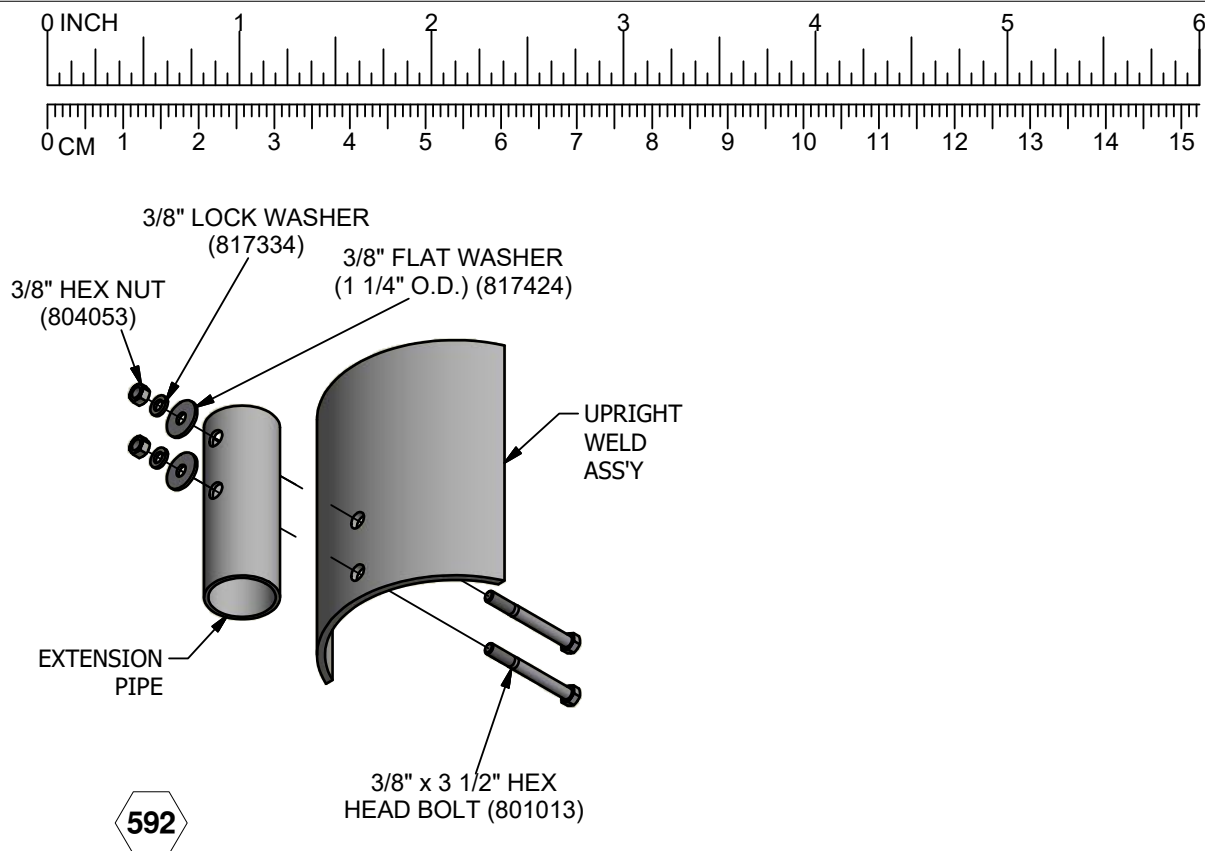
DETAILS -for- 6242 & 6243

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NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.





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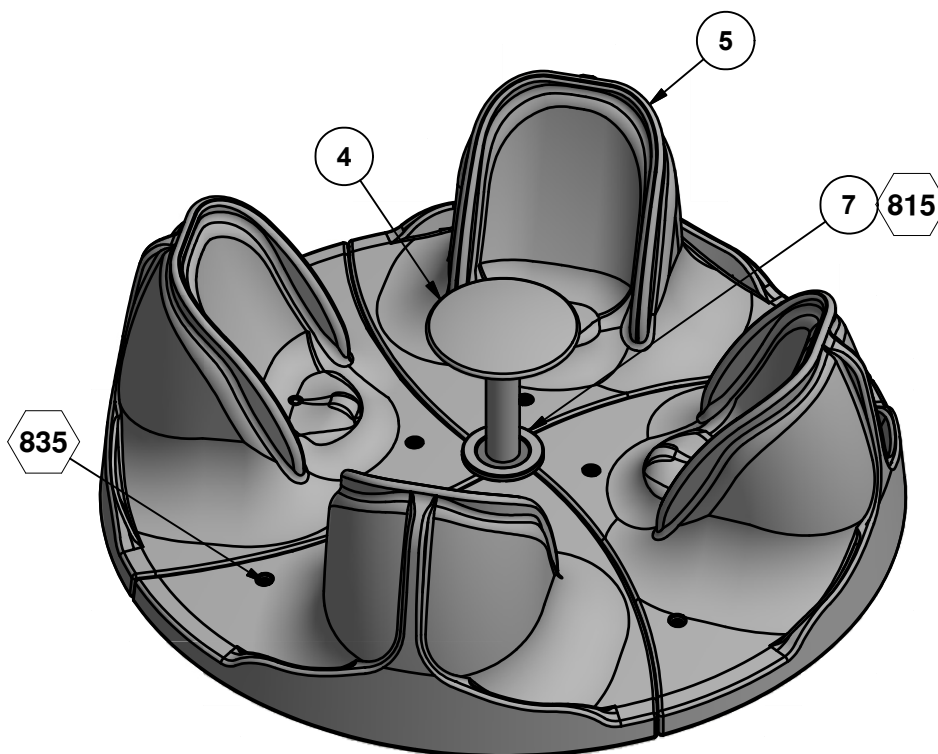
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6272

MERRY-GO-ALL

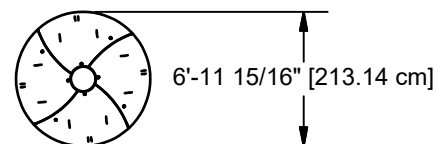
ISSUED/REVISED: 4/11/22

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE



ASSEMBLY DRAWING

- ❑ THIS WHIRL SHALL BE INSTALLED IN A LOW-TRAFFIC AREA. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF THIS WHIRL TO COMPLY WITH ASTM F1292 AND ASTM F-1487 (U.S.) OR CAN/CSA Z-614 (CANADA). USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) FOR THIS WHIRL SHALL EXTEND TO 19'-8" [6.0 M] DIAMETER MINIMUM.
- ❑ A NO-ENCROACHMENT ZONE (REQUIRED IN CANADA) SHALL EXTEND TO 31'-8" [9.6 M] DIAMETER MINIMUM.



TOP VIEW

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	BASE ASSEMBLY	1	219830
2	WHIRL BRAKE COVER	2	127322
3	PLATFORM BEARING ASS'Y	1	215058
4	HANDHOLD WELD ASS'Y	1	216323
5	MERRY-GO-ALL SEAT	4	203316
6	SHROUD BRACKET	4	216577
7	HDPE RING	1	216343
	HARDWARE COMPLETE	1	216356
8	1/4" FLAT WASHER (5/8" O.D.)	4	817408*
9	5/16" x 1" S.S. HEX DRIVE FLAT HEAD SCREW	4	803587*
10	5/16" FLAT WASHER (5/8" O.D.)	4	817406*
11	5/16" LOCKNUT	4	804359*
12	3/8" x 1" SELF TAPPING HEX HEAD BOLT	4	801850*
13	3/8" x 1 1/4" B.H.C.S.	16	811051*
14	3/8" x 2" HEX HEAD BOLT	4	801007*
15	3/8" x 2 1/2" HEX HEAD BOLT	2	801009*
16	3/8" x 4" HEX HEAD BOLT	4	801015*
17	3/8" FLAT WASHER (1 1/4" O.D.)	28	817424*
18	3/8" FLAT WASHER (1" O.D.)	8	817401*
19	3/8" LOCK WASHER	20	817334*
20	3/8" LOCK NUT	10	804353*
21	1/2" ANCHOR BOLT	4	800000*
22	1/2" HEX NUT	8	804055*
23	1/2" LOCKWASHER	4	817342*
24	#10 x 5/8" PAN HEAD SCREW	4	816017*
25	MOLDED BOLT GUARD CAP	8	156079-CAP*
26	BOLT GUARD BASE	8	156079-BASE*
27	1/2" FLAT WASHER (2" O.D.)	24	817413*

Unless Otherwise Specified, All Units of Measure are Each

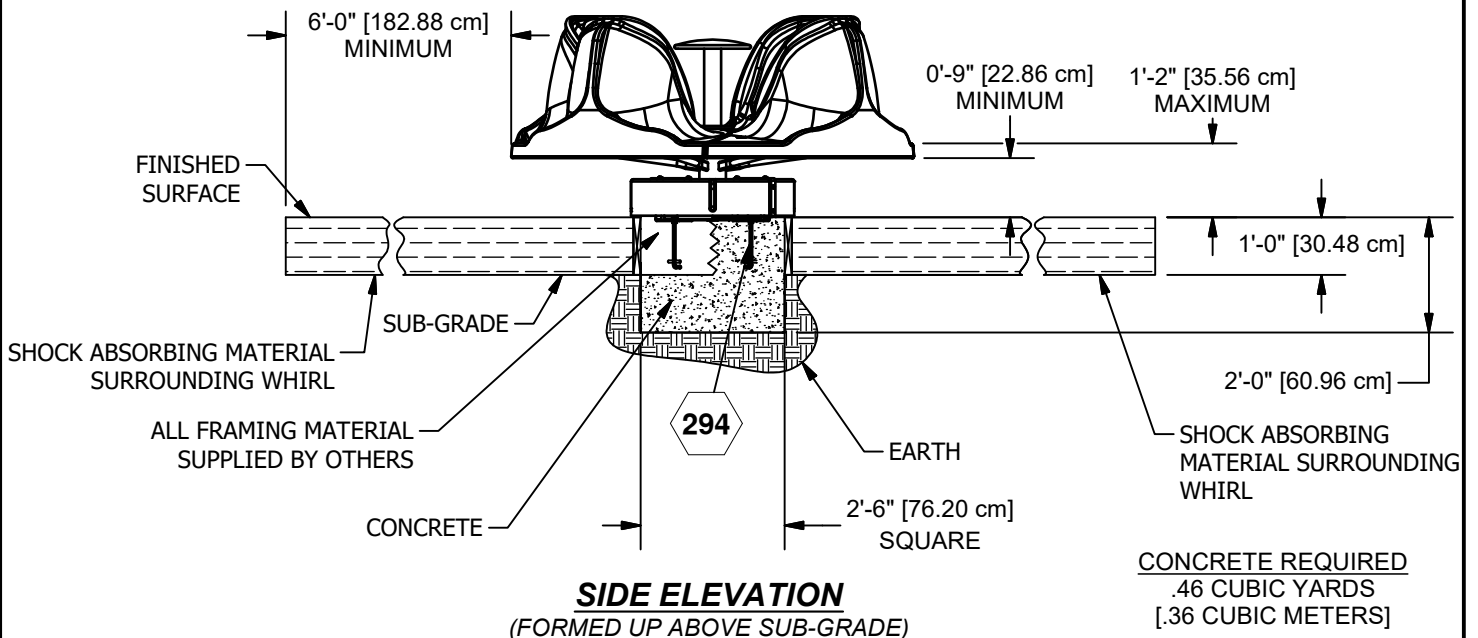
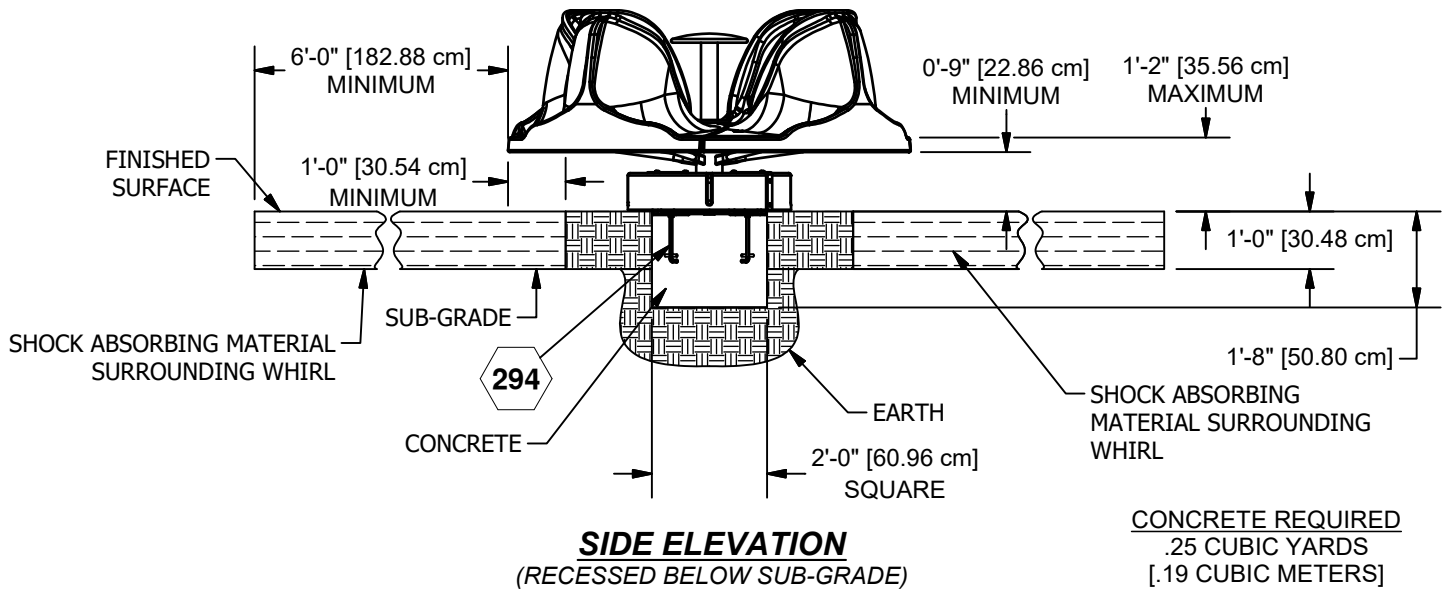
** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

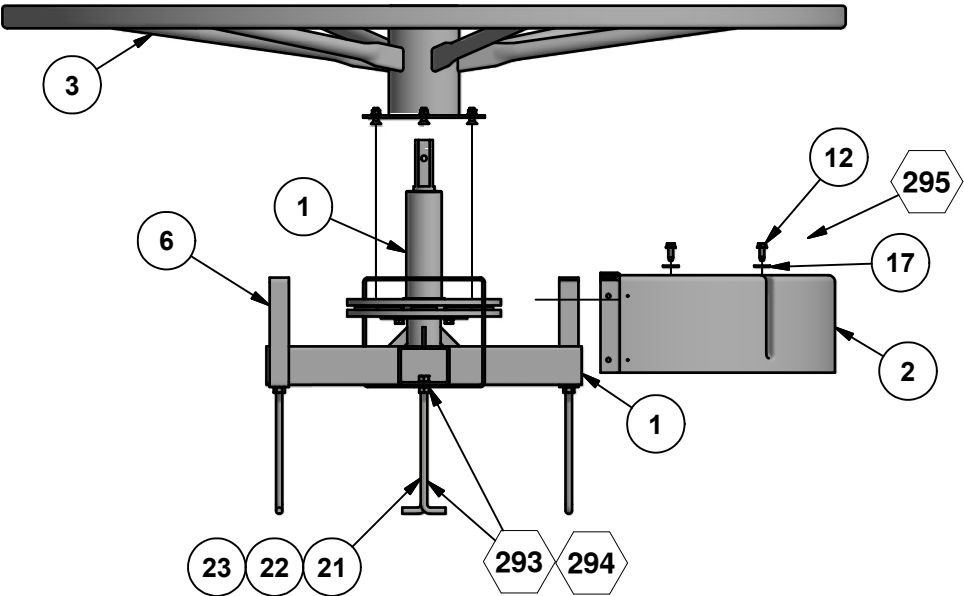
INSTALLATION DRAWINGS



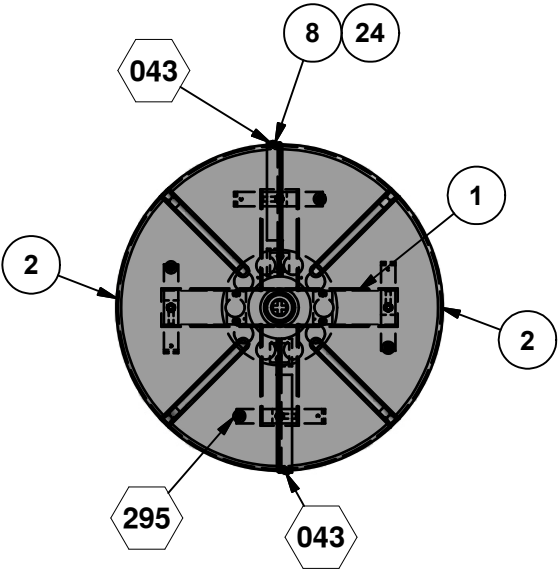
NOTES:

- ❑ SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 CM] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.
- ❑ SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI.
- ❑ HOLE DEPTHS INDICATED ARE MEASURED FROM THE FINISHED SURFACE. SEE GROUND DETAIL. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

INSTALLATION DRAWINGS



SHIELD SIDE VIEW
(SHIELD INSTALLATION)



SHIELD TOP VIEW



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. **NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.** A fall on a hard surface can result in serious injury to the equipment user.
- ☐ **ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.**
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ All protruding nuts and bolts should be covered; sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ Check for wearing away and erosion of the surface around the whirl. Be sure to correct this conditions.
- ☐ **GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.**
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Check for worn bearings and replace with new ones. Most whirls have two bearings. A good practice is to replace both bearings at the same time, because if one goes bad, it will not be long before the other follows.
- ☐ A soft, resilient surface should be placed under all climbers, extending at least six feet in all directions surrounding the equipment. **NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.**

INSTALLATION INSTRUCTIONS

NOTE: THIS SPECIFICATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

CAUTION: The Base Assembly contains very strong magnets. Be carefull when metal objects come near.

STEP 1: Dig hole as shown in Side Elevation.

STEP 2: Place first nut on the four anchor bolts, so that 1-1/4" of thread is protruding. Insert the anchor bolts through the Shroud Brackets and the Base Assembly. Secure with second nut and lockwasher.

NOTE: Use loctite (supplied by others) on all bolts. See Installation Drawings.

STEP 3: Fill ground hole with concrete. (Concrete should be stiff enough to support the Shroud Brackets and Base Assembly while concrete is still wet.)

STEP 4: Position Base Assembly on concrete. Force anchor bolts into concrete until Shroud Brackets rest against concrete. Level the Base Assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

STEP 5: After concrete has cured, position Whirl Brake Cover on Base Assembly. Be sure that mounting holes in the Whirl Brake Cover and Shroud Brackets are aligned properly when the cover is centered about the axle. If necessary loosen and adjust Shroud Brackets to achieve alignment. Apply loctite to anchor bolts and retighten after adjustment is finished. Remove Whirl Brake Covers before proceeding.

STEP 6: Remove Aluminum Disc from Base Assembly. Attach Aluminum Disc to the Platform Bearing Assembly using Detail 816 and slide down over the shaft of the Base Assembly.

STEP 7: Attach Handhold Weld Assembly to the Base Assembly shaft using Detail 815. Note: HDPE Ring must go over shaft before attaching Handhold Weld Assembly.

STEP 8: Attach Seats to Platform Bearing Assembly using Detail 296 making sure HDPE Ring is positioned between top of Seat and plate on the Handhold Weld Assembly.

NOTE: Position the Seats to reduce the amount of gap shown between each Seat. It is recommended to use a ratchet strap around the bottom edge of the seats and pull tight to the center.

STEP 9: Secure Whirl Brake Covers to Shroud Brackets using Detail 043.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

SPECIFICATIONS

NOTE: THIS INSTALLATION BOOKET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

PLATFORM ASSEMBLY: Shall be formed of one piece 11 Gauge H.R. steel with a turned under flange. Braces shall be fabricated of 1-5/16" O.D. galvanized pipe. Platform shall be an all welded construction.

BASE ASSEMBLY: The Base Assembly Frame shall be fabricated from 3" x 4" x (7 Gauge) .180" wall rectangular steel tubing and a machined 2 3/4" O.D. steel shaft. The Base Assembly Frame shall be coated with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein. A speed reducing device shall be attached to the Frame and shall be fabricated from 6061 Aluminum with ten integrated rare earth magnets with 100 lb. pull each.

WHIRL BRAKE COVER: Shall be color-impregnated, molded polyethylene with 3/16" nominal thickness.

SHROUD BRACKET: Shall be fabricated of 3/16" H.R. flat steel, drilled and tapped to receive 3/8" bolts. Bracket shall have a powder coat finish.

HANDHOLD ASSEMBLY: Shall be an all welded assembly fabricated from 14 Gauge galvanized steel, 1 1/4" galvanized pipe, 1/8" steel plate, 3" schedule 40 pipe, and 3/16" flat hot rolled steel.

MERRY-GO-ALL SEAT: The Merry-Go-All Seat shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-155); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

FINISH: Platform and Handhold Assembly shall have a powder coat finish.

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

NOTE: All weights are based on average comparisons of each part.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

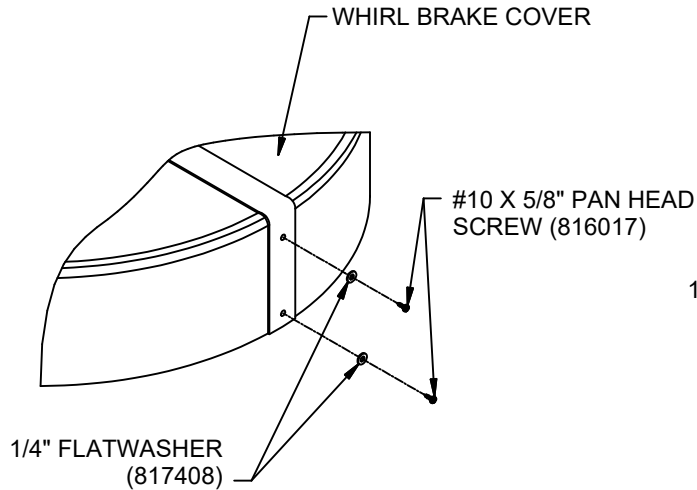
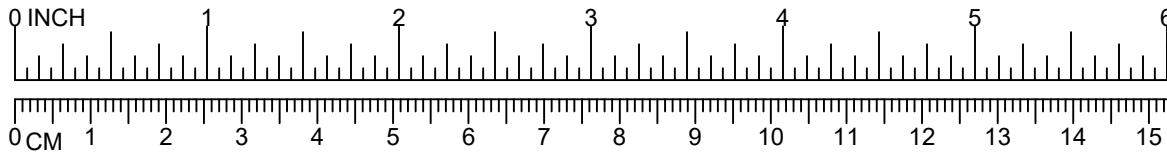
DETAILS -for- 6272

IMPORTANT

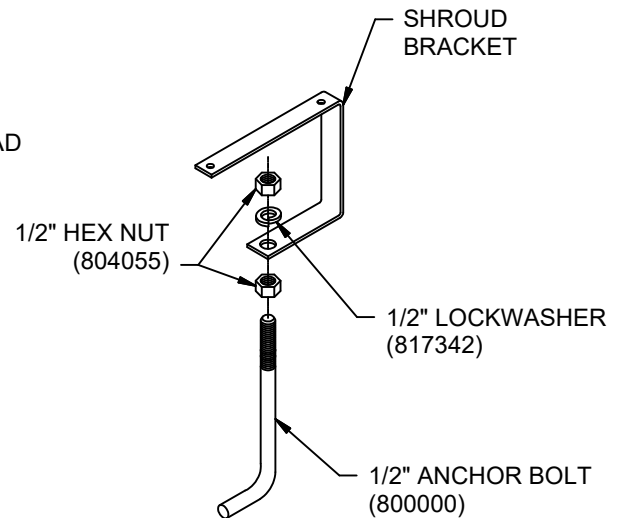
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NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

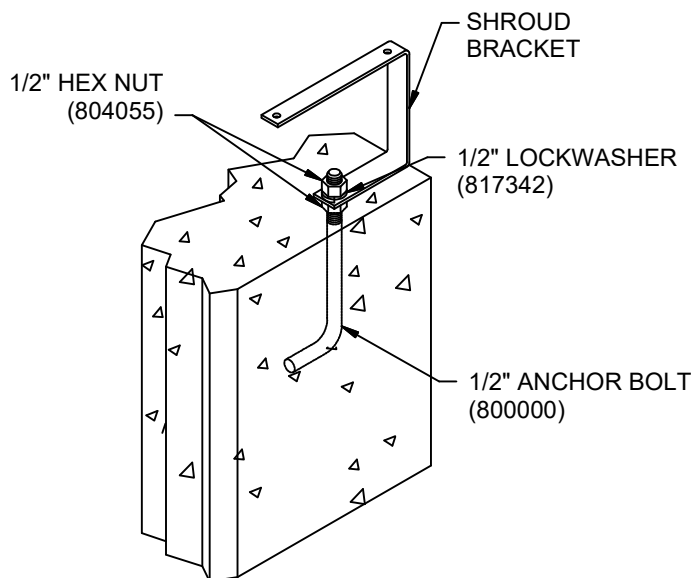
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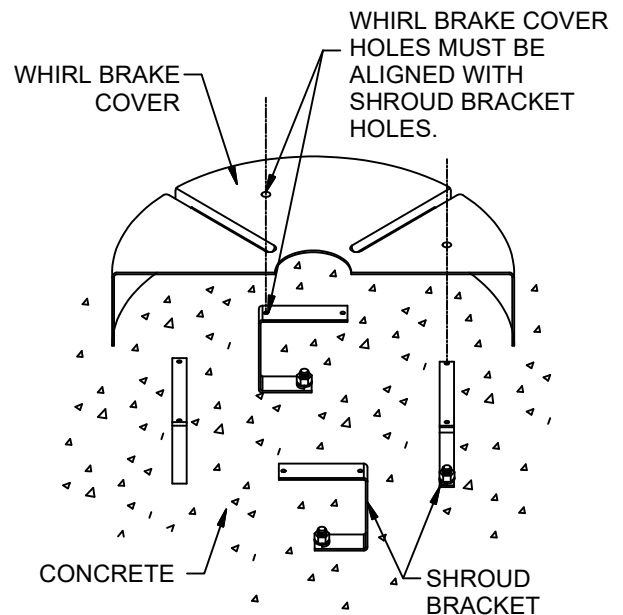
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DETAILS -for-

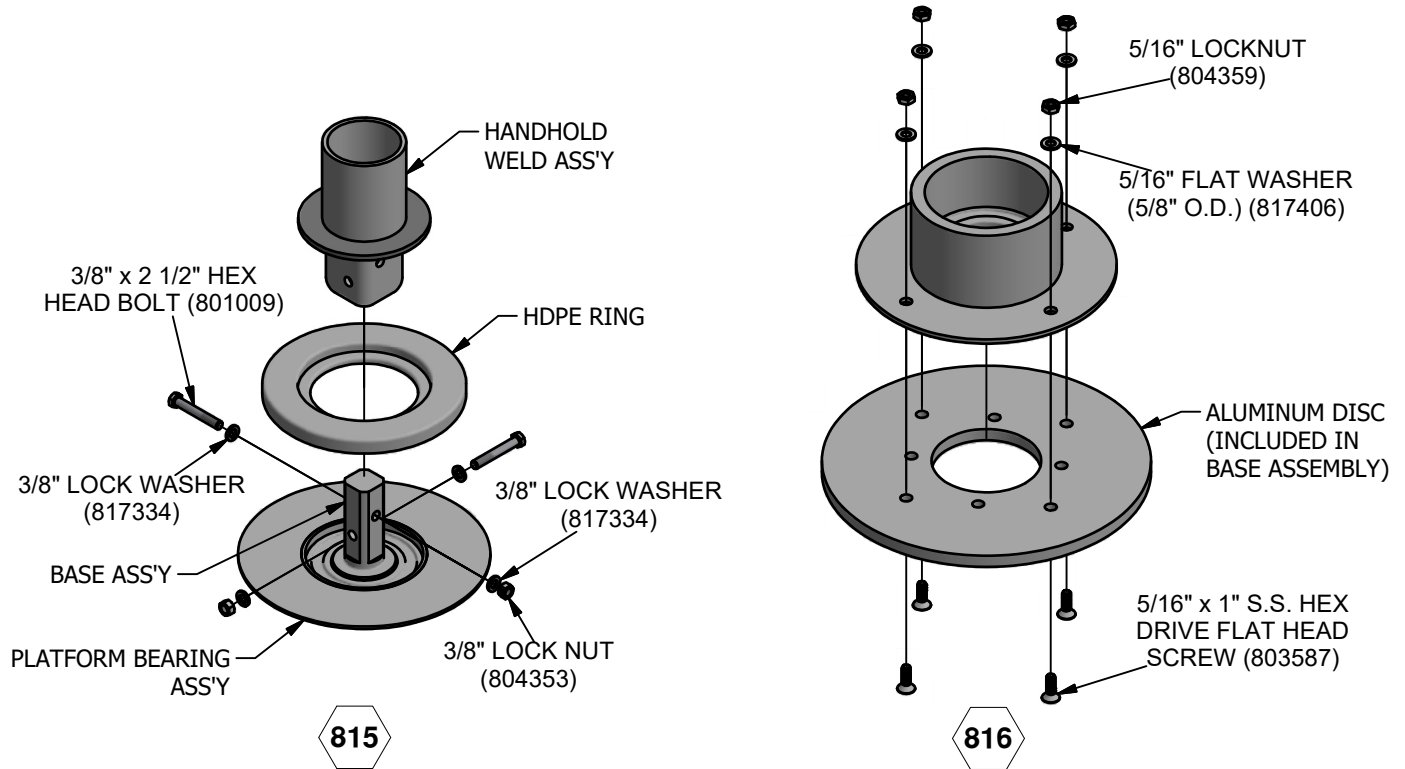
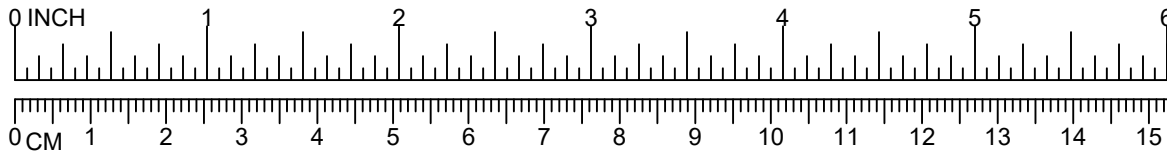
6272

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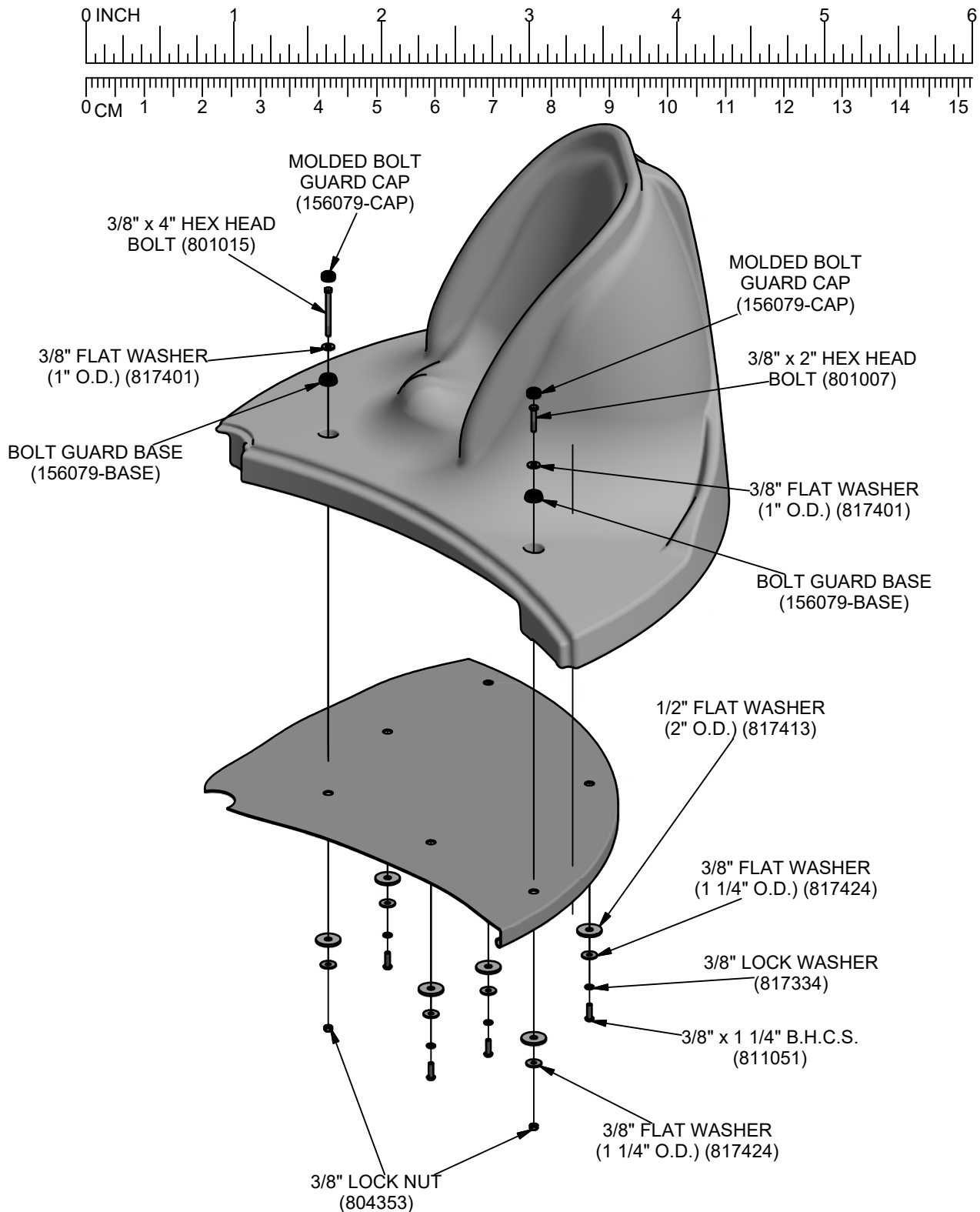
DETAILS -for- 6272

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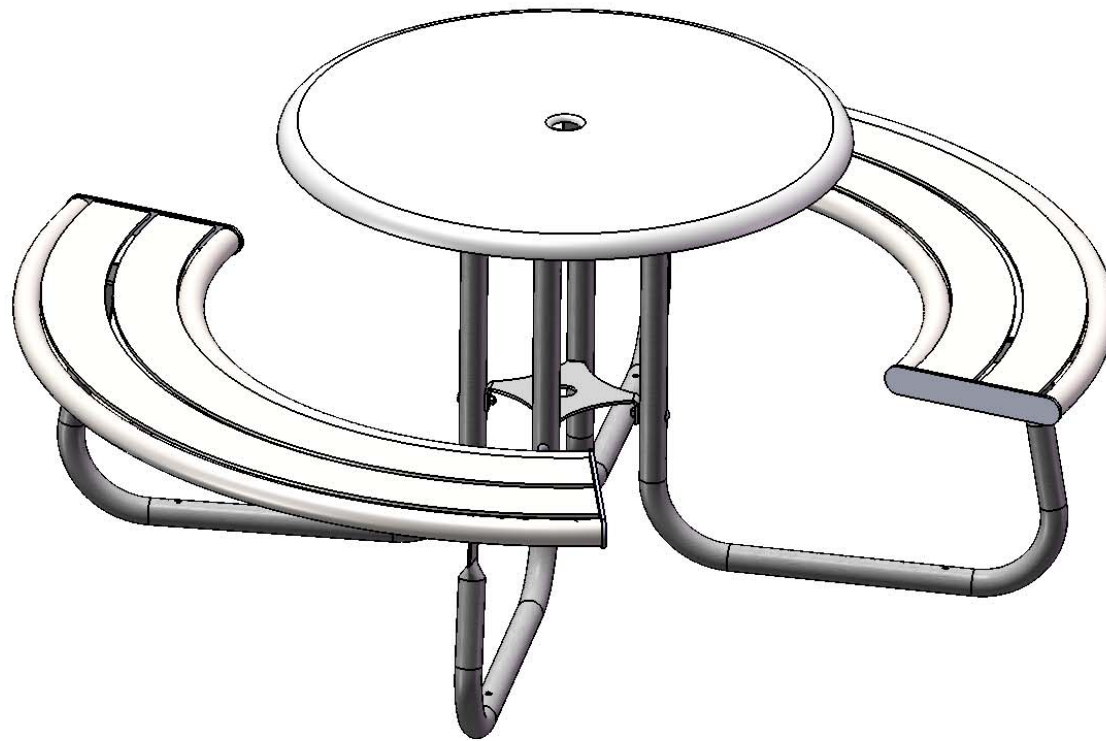
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A **PLAYCORE** Company



Model # 10-RDHS



A PLAYCORE Company

1675 Locust Street
Red Bud, IL 62278
Phone: 618-282-8200
Fax: 618-282-8202

WARRANTY & TERMS

WARRANTY: 5 Year Limited Warranty on Thermoplastic coated elements. Ultra Play guarantees all items for one full year to be free of defects in workmanship or materials when installed and maintained properly. We agree to repair or replace, any items determined to be defective. Items specifically not covered by this warranty include vandalism, man made or natural disasters, lack of maintenance, normal weathering or wear and tear due to public abuse.

Damages or loss in transit is the responsibility of the carrier, whether visible or concealed. It is the responsibility of the recipient to assure that the order is received complete. Before signing the delivery receipt, inspect the shipment immediately and completely. Note any damages or shortages on the bill of lading. Damage reports must be filed within 10 days. Ultra Play is NOT responsible for damages or loss in transit. Title to all goods passes to the customer at the time of shipment. Ultra Play will assist in filing claims if the freight arrangements were made by Ultra Play at your request.

CANCELLATIONS AND RETURNS: Cancellations are only accepted with approval of Ultra Play. No merchandise shall be returned without a Return Goods Authorization number which is issued by customer service. Any authorized merchandise must be carefully packed and received in saleable condition. A restocking charge of up to 25% will be applied to all returned goods when the error is not the fault of Ultra Play. All returns must be shipped freight prepaid.

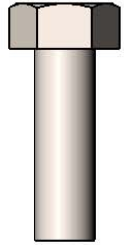


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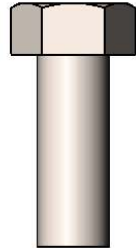
SAFETY WARNINGS & EQUIPMENT INSPECTION

- Owners and installers please note these safety warnings and make use of this checklist on a regular basis.
- Follow installation instructions when erecting equipment.
- Ground surfaces around equipment should be restored as needed. Concrete footings should never be exposed. Surface depth should comply with ASTM and CPSC specifications.
- Check for and repair damage caused by wear or vandalism, a major factor in injury causing situations.
- All protruding bolts should be covered or cut off and finished smooth. Sharp edges on pipes should be capped or removed. Check for bent, broken, or severely worn pipe, and replace.
- All equipment should be free of rust and repainted whenever necessary to deter rusting.
- We provide our customers with layout sheets and installation instructions. Please keep on file the specifications sheet that contains the listing of every part used.
- Never add components not intended for use with this product.
- Regular maintenance is necessary in this and all park and recreational equipment to insure the safety of the user.
- Note: Proper maintenance of equipment requires regular tightening of all bolts, nuts, and setscrews.
- Note: Regular checking of all parts, castings, etc. should be made. If a part is broken or worn, it should be replaced immediately.
- Check to be sure all fittings are tight and that bars and pipes do not move.
- Replace all worn S-hooks. S-hooks must be completely closed. Failure to close S-hooks can result in serious injury to the user. NEVER reuse S-hooks.
- Test for free movement of swing hanger and other moving attached parts.
- Check for worn chains and replace them.
- A soft resilient surface should be placed under all swings extending at least twice the height of the top rail both front and back.

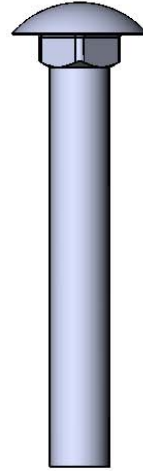
HARDWARE



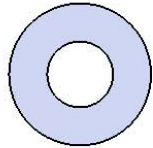
5/16" x 1"
Machine Bolt



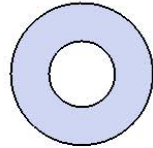
3/8" x 1"
Machine Bolt



5/16" x 2-1/4"
Carriage Bolt



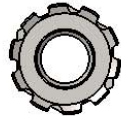
5/16" Washer



3/8" Washer

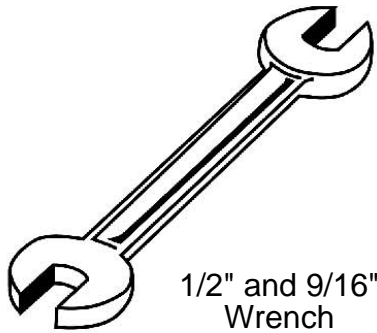


5/16" Kep Nut

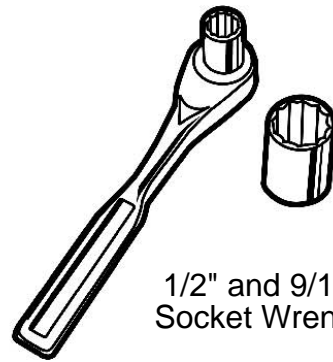


3/8" Kep Nut

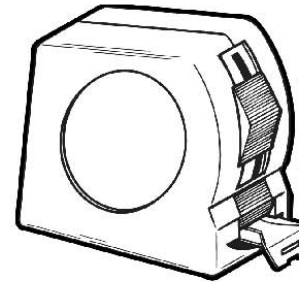
TOOLS REQUIRED



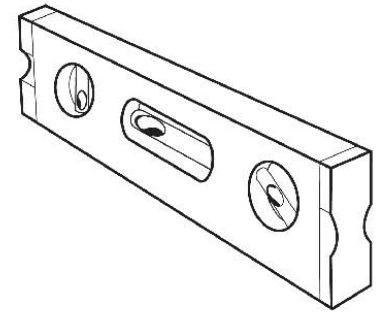
1/2" and 9/16"
Wrench



1/2" and 9/16"
Socket Wrench



Tape Measure



Level

ULTRA SITE PRODUCT SPECIFICATIONS

10-RDHS PORTABLE SOLID TABLE w/2 ROUND SEATS

Top & Seats: Top is 11 gauge steel flat, spun to form with a umbrella hole in the center. The understructure/attachment plates are fabricated from 7 gauge x 1-1/2" flat bar. Seats are fabricated from 1-5/8" x 13ga steel tube and 1/4" flat steel plate with 1/4" flat steel understructure/attachment plates. All electrically MIG welded.

Coating: Steel is sandblasted to near white condition. Coated with zinc rich epoxy primer and top coated with electrostatic powder coat, oven cured.

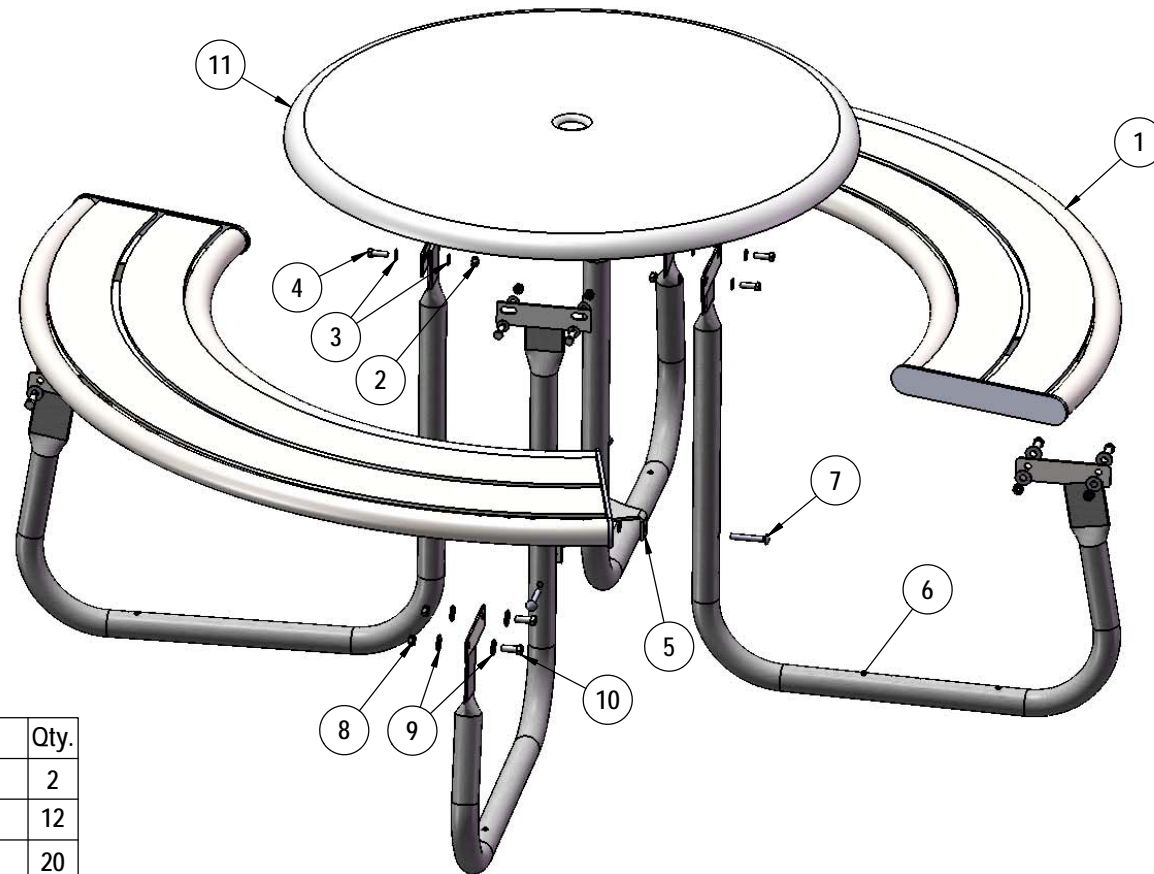
Frame: Table Legs are 1-5/8" OD x 13ga steel tubing. Seat attachment points are 10 gauge precision punched tabs. Top attachment points are 10 gauge x 1-1/2" steel flat bar. All electrically MIG welded.

Frame Coating: Steel is sandblasted to near white condition. Coated with zinc rich epoxy primer and top coated with electrostatic powder coat, oven cured.

Hardware: All stainless steel hardware fasteners.

Dimensions: Top is 36" round x 30" high. Seats are 60" long x 12" wide x 18" high. Outside diameter of the 2 seat table is 68-1/2".

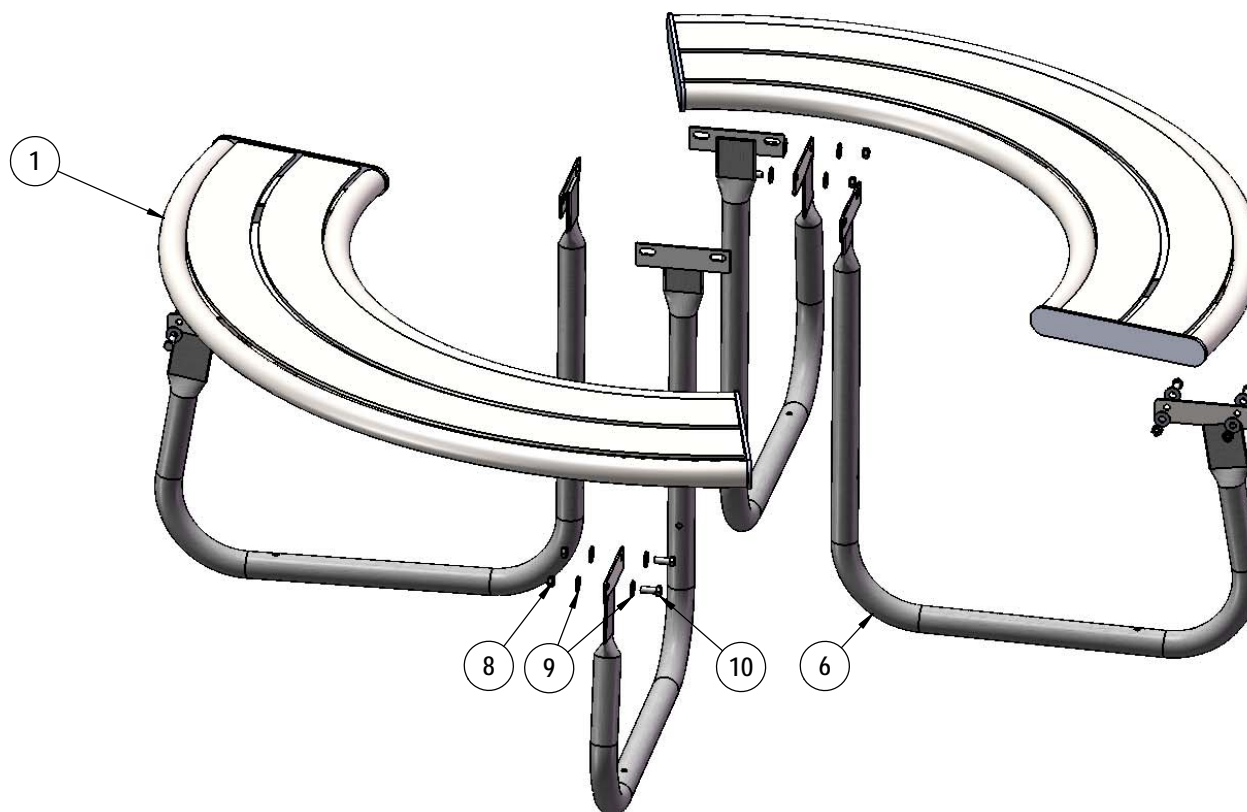
COMPONENTS



ITEM NO.	PartNo	DESCRIPTION	Qty.
1	P-01-04-0388	Hartford Table Seat	2
2	33-03-0012	5/16" Kep Nut (SS)	12
3	33-02-0007	5/16" SS Washer	20
4	33-05-0029	5/16" x 1" Machine Bolt (SS)	8
5	P-01-04-0078	Spreader plate	1
6	P-01-04-0402	Hartford Leg- Welded	4
7	33-06-0053	5/16" x 2-1/4" Carriage Bolt (SS)	4
8	33-03-0013	3/8" Kep Nut (SS)	8
9	33-02-0008	3/8" Flat Washer (SS)	16
10	33-06-0056	3/8" x 1" Machine Bolt (SS)	8
11	P-SN36-TU	36" Round Solid Spun Top with umbrella hole	1

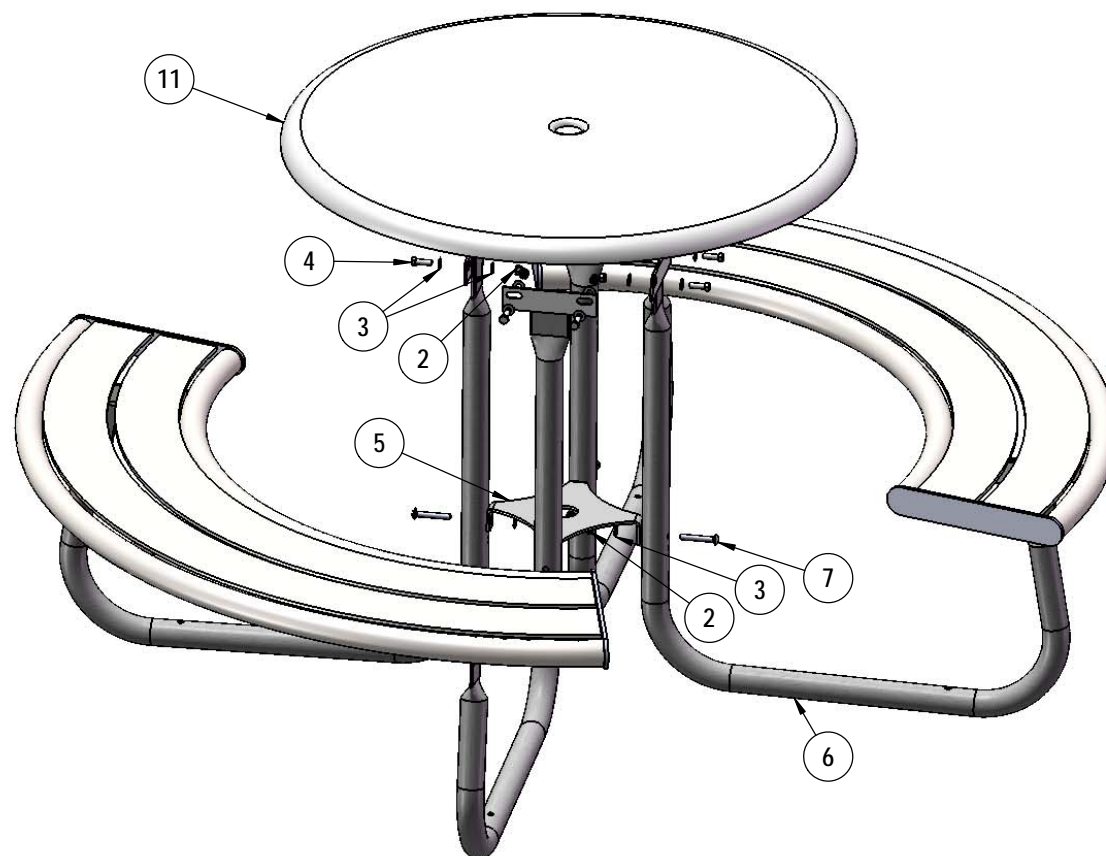
Recommended Surface Mount Hardware:
5/16" x 5" Concrete Expansion Anchor Bolts
(Not Included)

STEP 1



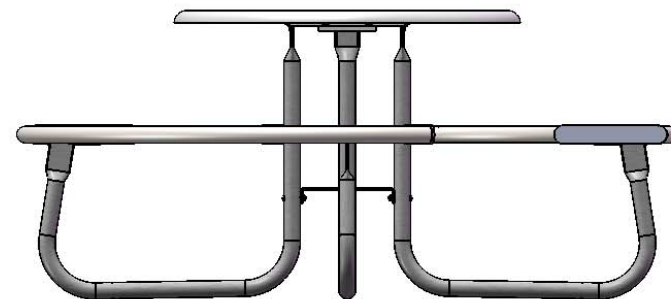
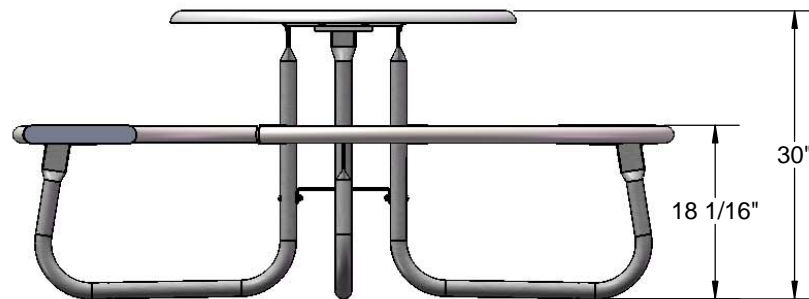
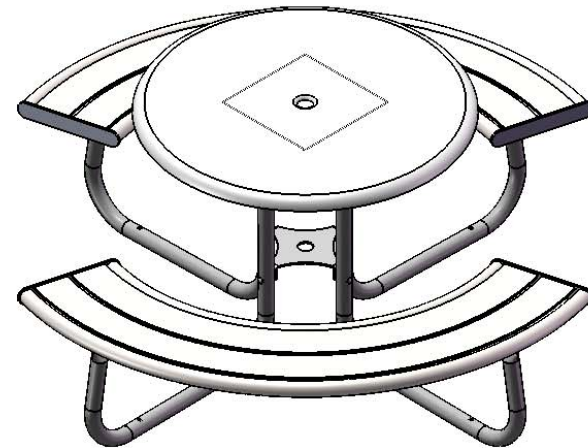
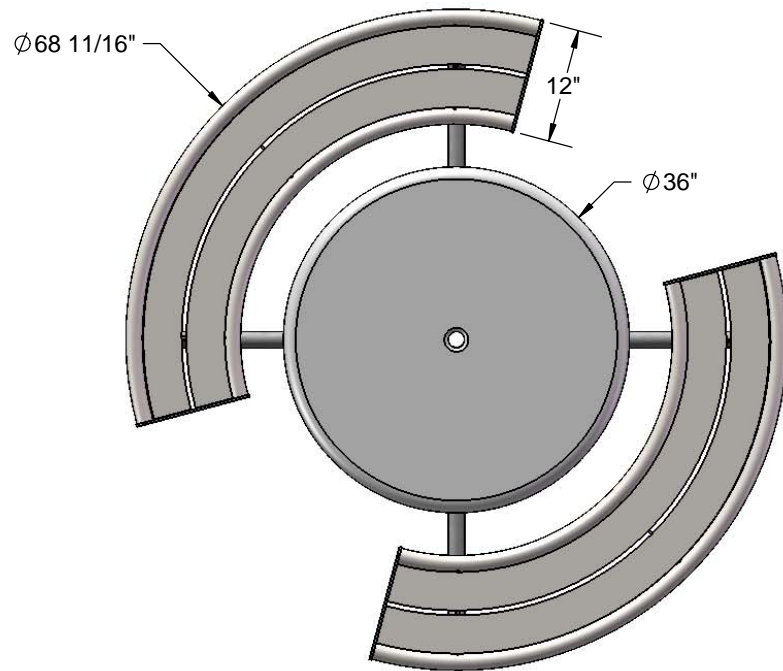
Attach the Hartford Round Seats to the Hartford Table Legs using the specified hardware.

STEP 2



Attach the Spun top and Spreader Plate to the Hartford Table Legs using the specified hardware.

OVERALL DIMENSIONS



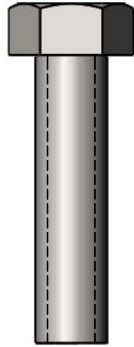


Model # 81CS-HS6

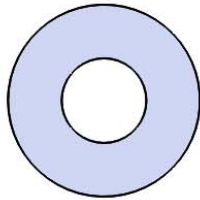
SAFETY WARNINGS & EQUIPMENT INSPECTION

- Owners and installers please note these safety warnings and make use of this checklist on a regular basis.
- Follow installation instructions when erecting equipment.
- Ground surfaces around equipment should be restored as needed. Concrete footings should never be exposed. Surface depth should comply with ASTM and CPSC specifications.
- Check for and repair damage caused by wear or vandalism, a major factor in injury causing situations.
- All protruding bolts should be covered or cut off and finished smooth. Sharp edges on pipes should be capped or removed. Check for bent, broken, or severely worn pipe, and replace.
- All equipment should be free of rust and repainted whenever necessary to deter rusting.
- We provide our customers with layout sheets and installation instructions. Please keep on file the specifications sheet that contains the listing of every part used.
- Never add components not intended for use with this product.
- Regular maintenance is necessary in this and all park and recreational equipment to insure the safety of the user.
- Note: Proper maintenance of equipment requires regular tightening of all bolts, nuts, and setscrews.
- Note: Regular checking of all parts, castings, etc. should be made. If a part is broken or worn, it should be replaced immediately.
- Check to be sure all fittings are tight and that bars and pipes do not move.
- Replace all worn S-hooks. S-hooks must be completely closed. Failure to close S-hooks can result in serious injury to the user. NEVER reuse S-hooks.
- Test for free movement of swing hanger and other moving attached parts.
- Check for worn chains and replace them.
- A soft resilient surface should be placed under all swings extending at least twice the height of the top rail both front and back.

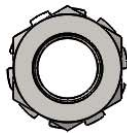
HARDWARE



3/8" x 1-1/2"
MACHINE BOLT

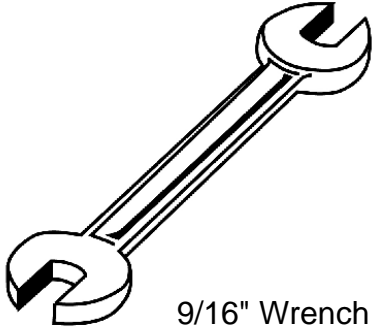


3/8" FLAT WASHER



3/8" KEPNUT

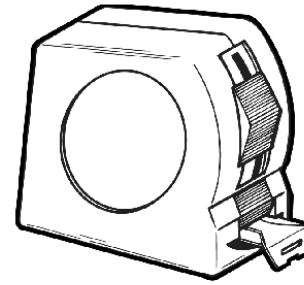
TOOLS REQUIRED



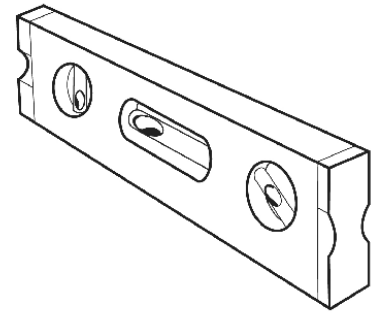
9/16" Wrench



9/16" Socket Wrench



Tape Measure



Level

PRODUCT SPECIFICATIONS

81CS-HS6 INGROUND MOUNT BENCH

Seat & Back: Both are fabricated from 1 ½" x ¼" flat steel strips. Reinforced with 1/4" thick support ribs. End Planks are made from 1-1/2" x 3-1/2" steel oval tubing.

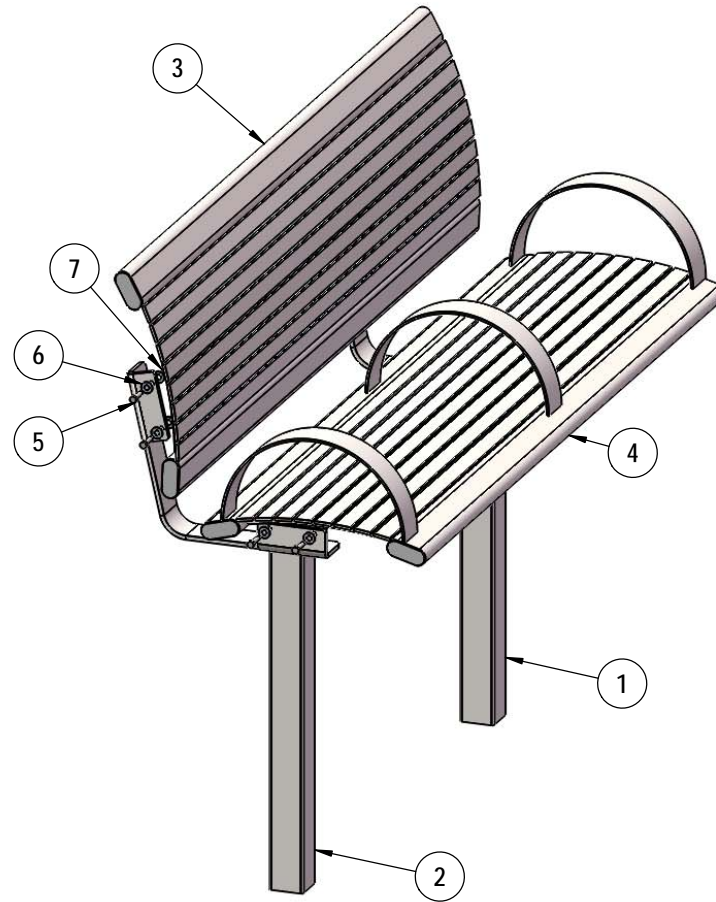
Frame: 3" x 3" square x11 gauge structural steel tubing. All electrically MIG welded.

Coating: Electrostatic powder coated application oven cured.

Dimensions: 6' inground bench with back. Seat is 20" wide x 71" long. Seat height is 18" from the ground to the top of the seat. The overall dimensions are 71" x 25-11/16" x 51-5/16"

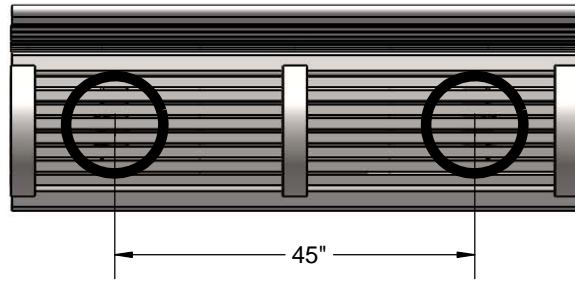
COMPONENTS

Attach the 81 series seats to the 81 Frames using specified hardware.

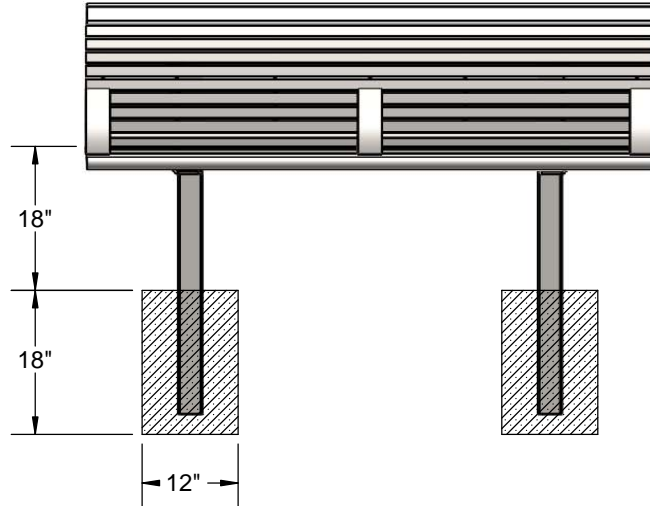


ITEM NO.	PartNo	DESCRIPTION	QTY.
1	P-01-01-0670	81 Series S Leg-Left	1
2	P-01-01-0412	81 Series S Leg-Right	1
3	P-01-01-0415	81/82 Series Seat	1
4	P-01-01-0420	81/82 Series Seat w/ armrests	1
5	33-05-0049	3/8" x 1 1/2" Machine Bolt (SS)	8
6	33-02-0008	3/8" Flat Washer (SS)	16
7	33-03-0013	3/8" Kep Nut (SS)	8

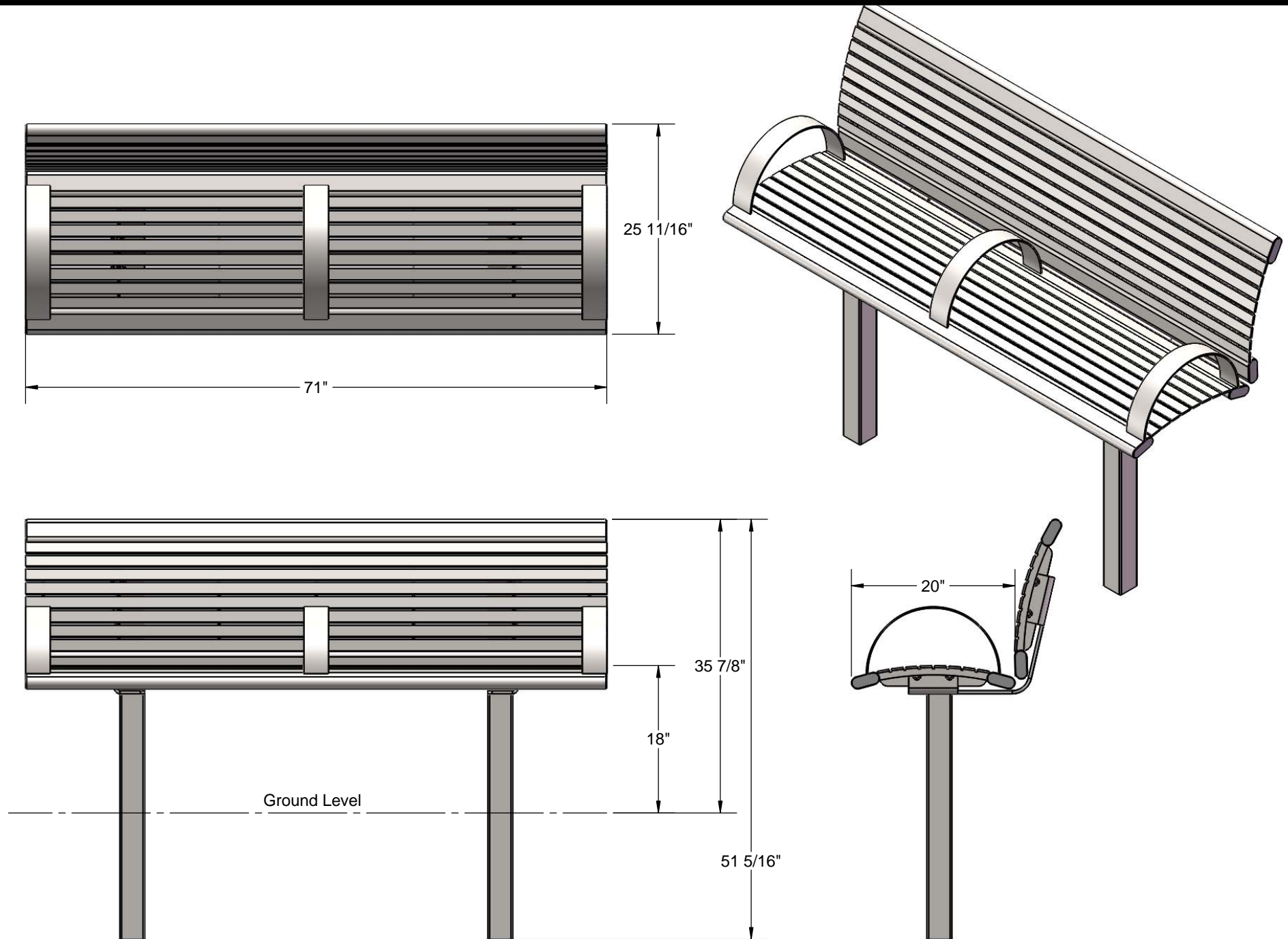
FOOTING DETAILS



Estimated Required Concrete:
7 - 50lb Bags of Concrete Mix



OVERALL DIMENSIONS





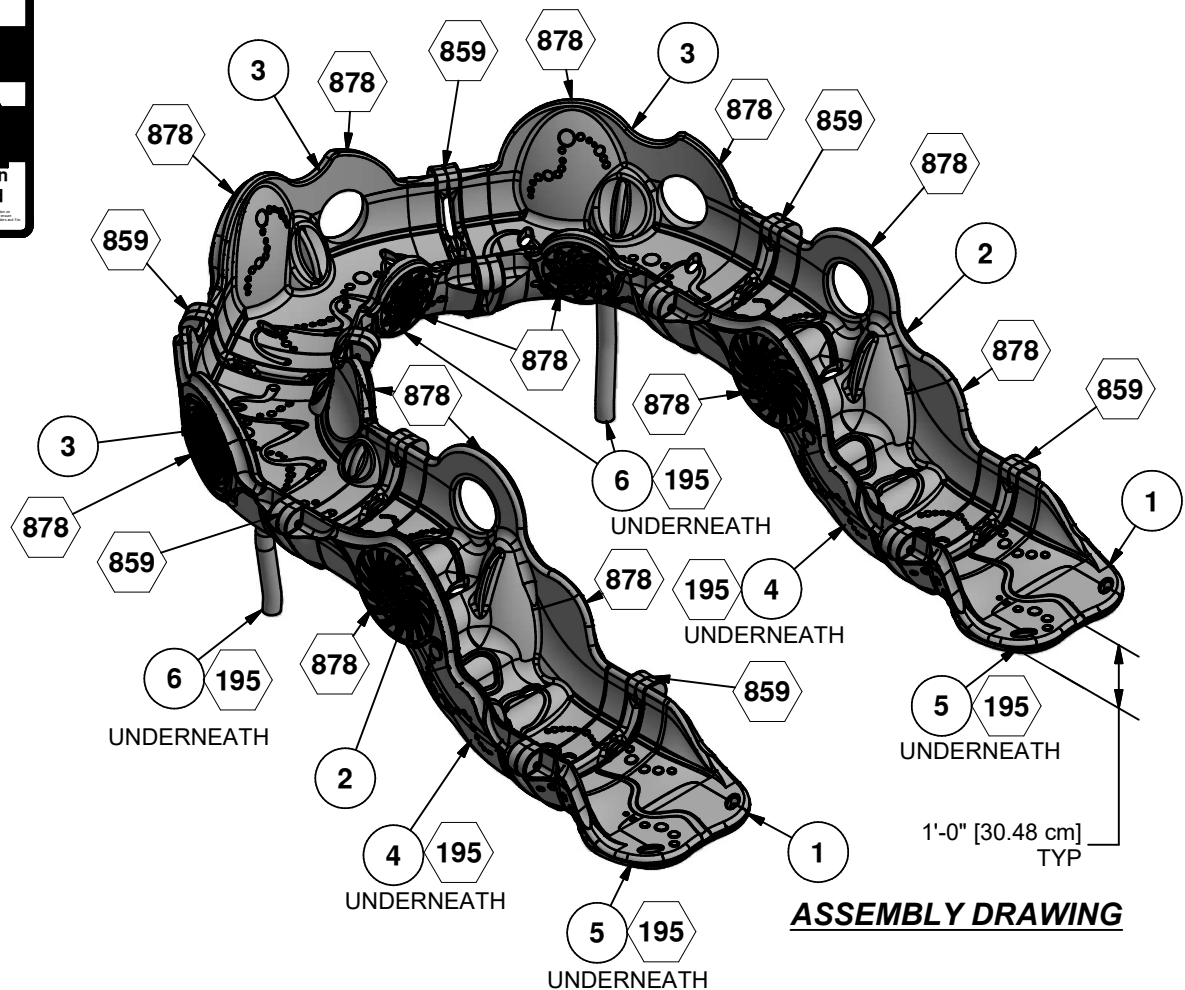
A PLAYCORE Company
1-800-235-2440

3208

SENSORY WAVE CLIMBER HORSESHOE ARCH

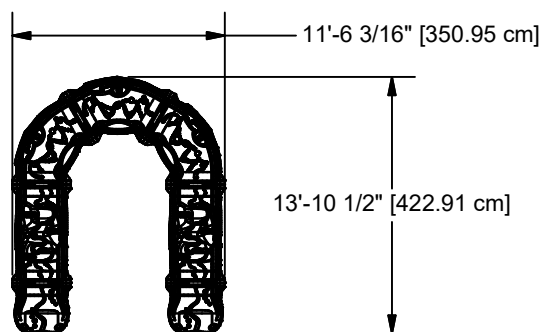
ISSUED/REVISED: 6/14/2024

- ⬡ = INSTALLATION
DETAIL
- = PARTS LIST
REFERENCE



INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.



TOP VIEW

Parts List			
REF	DESCRIPTION	QTY	PART NUMBER
1	WAVE END TRANSFER	2	211613
2	WAVE ARCH	2	211610
3	WAVE CURVE	3	211611
4	FOOTBUCK WELD ASS'Y	2	211712
5	FOOTBUCK WELD ASS'Y	2	211716
6	FOOTBUCK WELD ASS'Y	3	211779
	HARDWARE COMPLETE	1	211782
	3/8" x 3/4" P.B.H.C.S. w/PATCH	14	812052*
	3/8" x 5" P.B.H.C.S. w/PATCH	24	812078*
	3/8" FLAT WASHER	14	817410*
	3/8" FLAT WASHER (1 1/4" O.D.)	24	817424*
	3/8" BARREL NUT	24	804804*
	3/8" LOCKWASHER	38	817334*
	DOMED PLUG	90	818379*

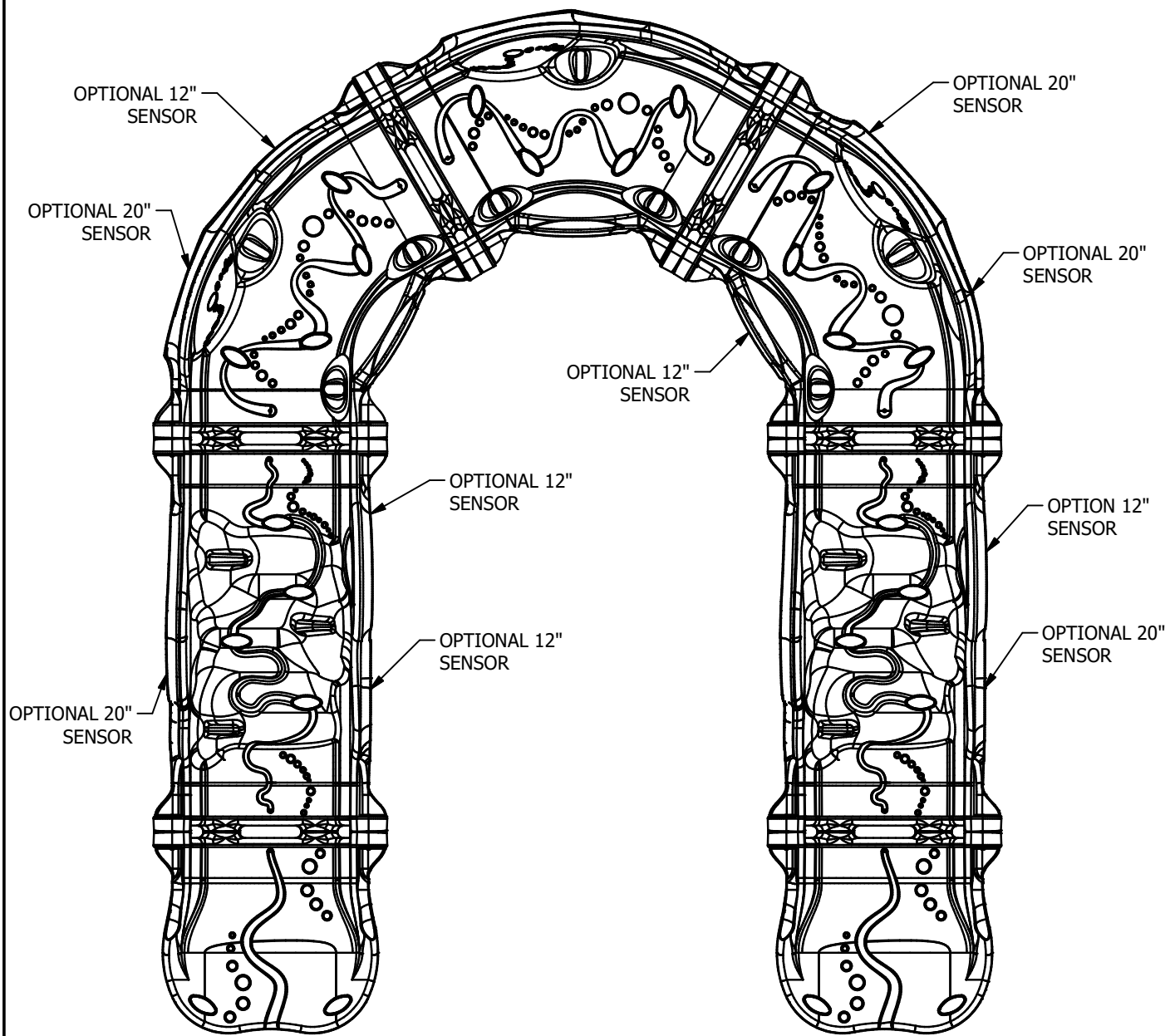
Unless Otherwise Specified, All Units of Measure are Each

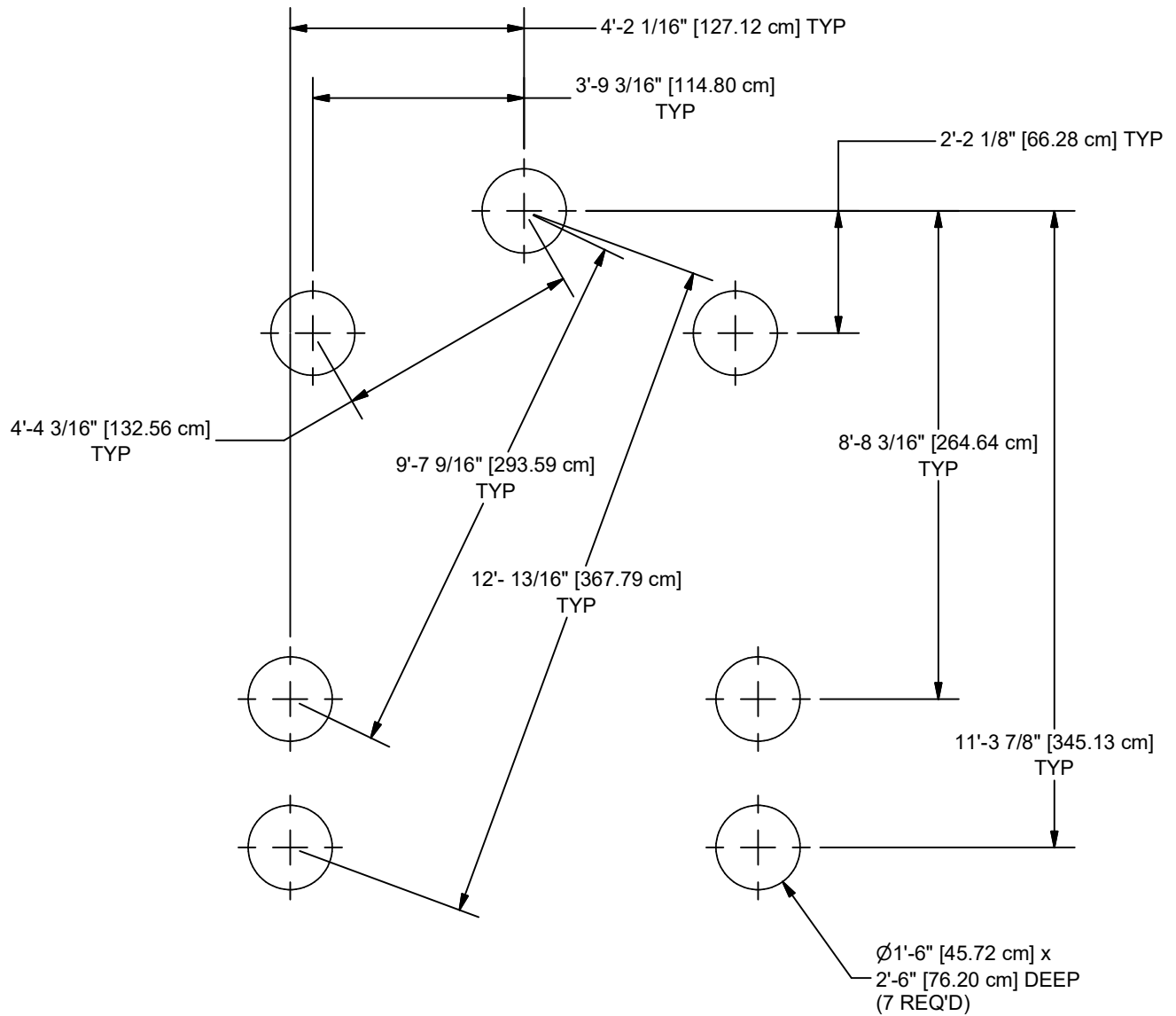
** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.





NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED
 .69 CUBIC YARDS
 [.53 CUBIC METERS]

GROUND PLAN

SPECIFICATIONS

SENSORY WAVE PIECES: Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

METAL COMPONENTS: The footbuck weld assembly shall be an al weld assembly fabricated from 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and purchased 3/16" steel plate. The footbuck shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68),

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

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS



☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.

☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

☐ Check to be sure all fittings are tight and that the bars and pipes do not move.

☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

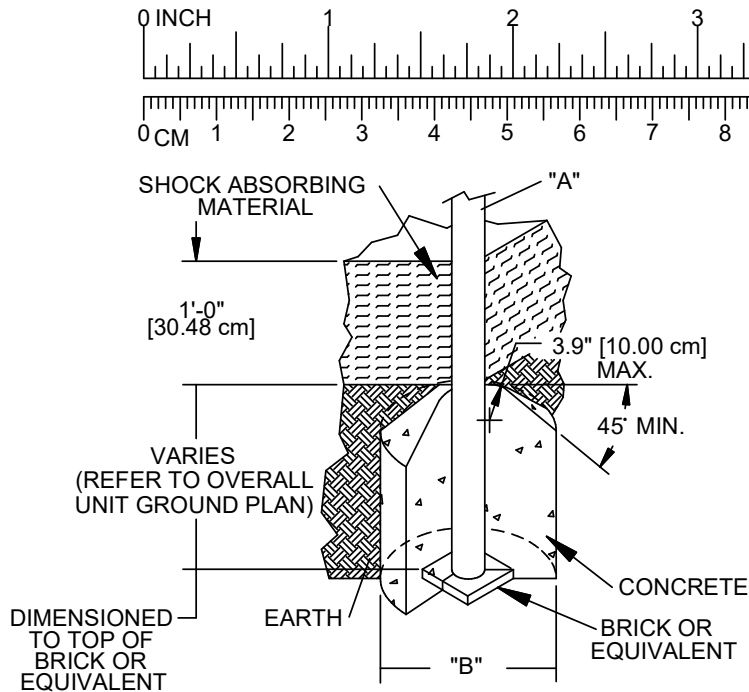
DETAILS -for- 3208

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



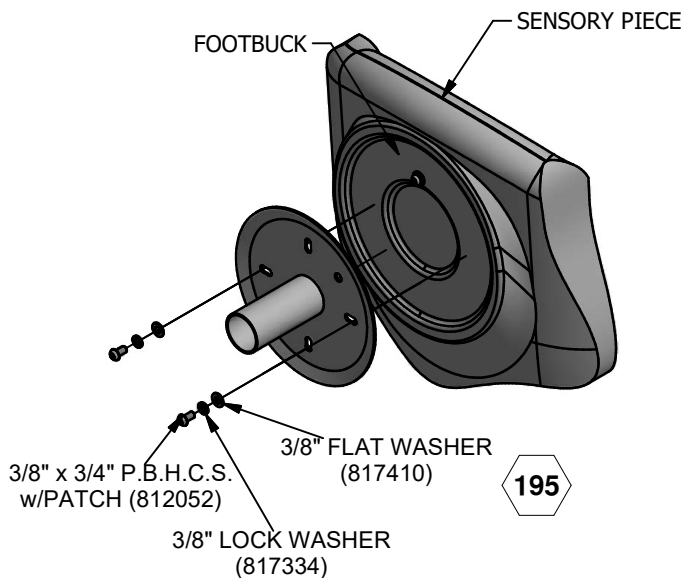
DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
5" [12.70 cm]	1'-6" [45.72 cm]
TRACK RIDE & SWINGS	
5" [12.70 cm]	2'-0" [60.96 cm]
TREE SCAPE	
5" [12.70 cm]	4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

032

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



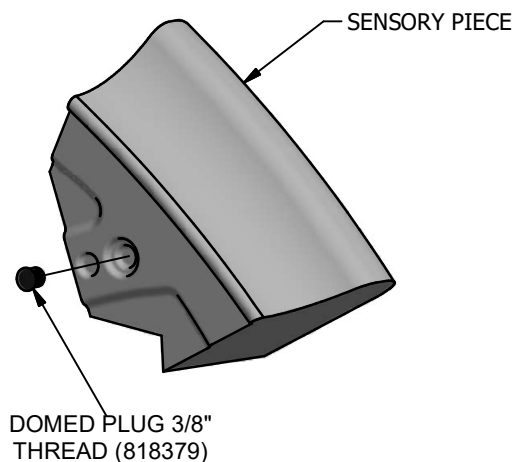
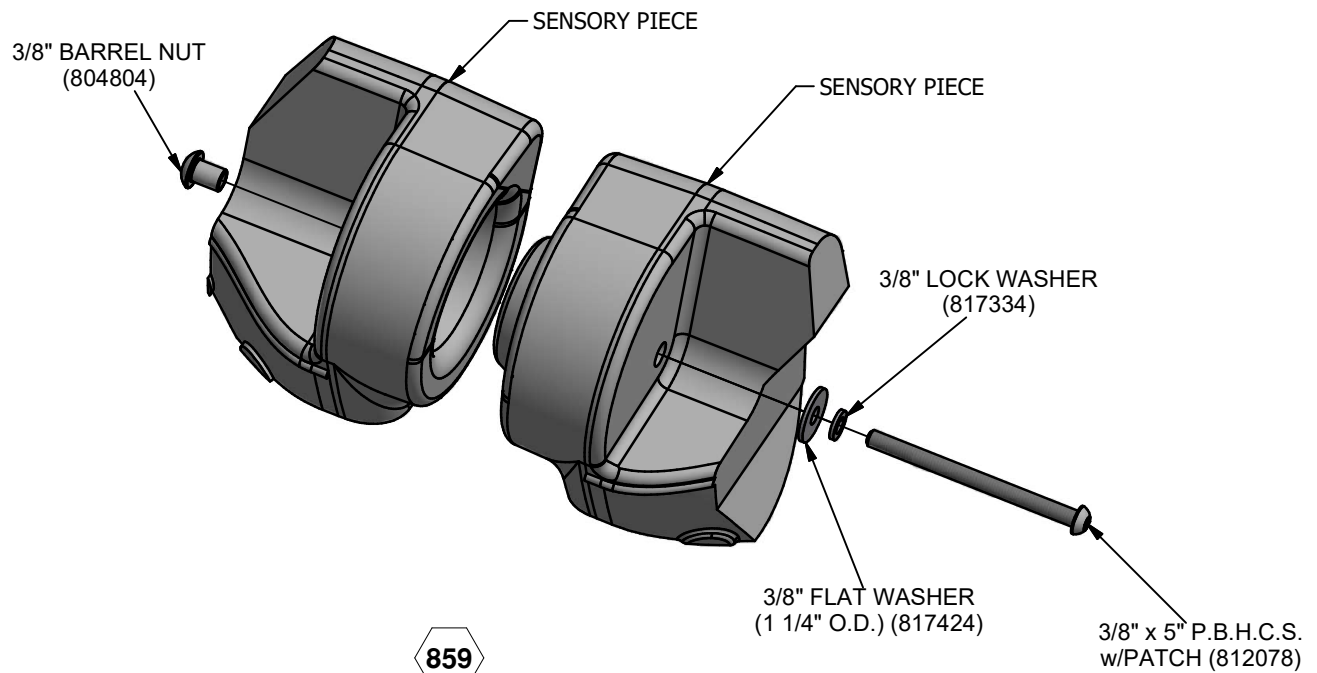
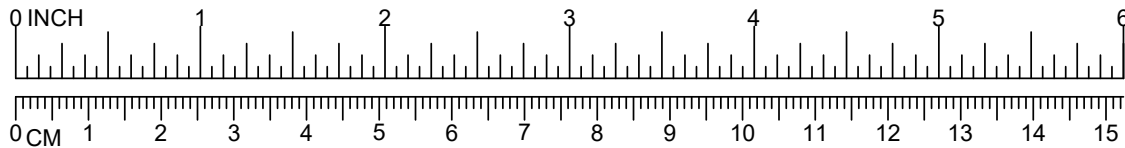
DETAILS -for- 3208

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.





Freestanding Play Events

Freestanding play equipment and accessories as manufactured by GameTime, a PlayCore Company, P.O. Box 680121, Fort Payne, Alabama 35968-0121, Phone: 1-800-235-2440, www.GameTime.com, shall adhere to the following specifications:

- A. Molded Polyethylene – Products are to be rotationally molded plastic with a ¼" nominal wall thickness. All plastic is to be U.V. stabilized with optional graphics molded into the component during the molding process. Molded products shall have an anti-static additive and be available in any of the manufacturer's standard colors.
- B. High Density Polyethylene shall be made from either ½" or ¾" thick (depending on application used) high density, UV-stabilized and color impregnated polyethylene.
- C. Cables - shall be 18mm polyester twisted type with the following properties: calculated tensile strength of >60kN, quantity 6 strands 2.8mm diameter each, steel strands shall have QTY 19 steel wires diameter .62mm each, quantity 3 fiber core 2.7mm diameter each, UV protected polyester impregnated. Terminations shall be made of the following materials: Aluminum forks, stainless steel D-shackles, stainless steel lifting eye nuts. Connections shall be made of the following: Aluminum connector eggs, aluminum 2-piece T-joints, aluminum T-joints, aluminum in-line connector, aluminum ferrules.
- D. Hardware – All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate topcoat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. PowerScape Plus stainless-steel fasteners shall be button pin-in head, socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

FINISHES

- A. Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electrostatic method to a minimum thickness of four mils. Promptly after application of the powder, the coating shall be oven-cured at 350 degrees Fahrenheit. The color(s) of the polyester coating shall be as selected by the Architect from the manufacturer's standard and/or custom color selection charts. The paint process must adhere to the Powder Coat Institute 4000 Certification.
- B. Galvanized Finish – All components shall have a galvanized finish prior to powder coating and shall be protectively coated with ZRP, a zinc primer that forms a rust-resistant barrier layer. All galvanized surfaces shall be free of burs, splinters, and sharp edges.



Powerscape Playground System

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes composite structure, stand-alone play events and accessories.
- B. Basis of design is **PowerScape®** modular play structures, free-standing play equipment and accessories as manufactured by GameTime, a PlayCore Company, P.O. Box 680121, Fort Payne, Alabama 35968-0121, Phone: 1-800-235-2440, www.GameTime.com.

1.02 SUBMITTALS

- A. Product Data: Include physical characteristics such as shape, dimensions, gauge and material for each component. Provide finish information and available colors.
- B. Shop Drawings: Include plans, elevations, details, and installation instructions for each component.
- C. Warranty: Include sample of manufacturer's standard warranty.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Equipment components shall be certified by IPEMA's third party product certification service. Equipment and structural components shall bear the IPEMA certification seal. IPEMA validation is available at www.ipema.org.
- B. Installer: Must be certified by the manufacturer.
- C. Safety Standards: Comply with requirements of ASTM F 1487.

1.04 WARRANTY

- A. Warranty shall meet or exceed the warranty provisions of GameTime as follows:

Lifetime limited warranty on PowerScape®, PrimeTime®, Modern City®, Xscape® & IONiX® uprights.

Lifetime limited warranty on Tru-Loc® connections and upright bolt-through connections.

Lifetime limited warranty on all hardware.

20 Year limited warranty on Timber Décor™ & Timbers recycled plastic lumber.

15 Year limited warranty on metal decks, pipes, rungs, rails, loops, braces, and footbucks.

15 Year limited warranty on rotationally molded products.

Last Updated 3.8.2022



- 15-Year** limited warranty on VistaRope nylon bearings and ring junction pieces.
- 10 Year** limited warranty on GTFit, THRIVE and Challenge Course posts & bars.
- 10 Year** limited warranty on site furnishings against structural failure.
- 10-Year** limited warranty on SunBlox® products.
- 10 Year** limited warranty on integrated GTShade® products.
- 10 Year** limited warranty on fiberglass and DHPL signage.
- 10-Year** limited warranty on VistaRope WeaveTech cables.
- 5 Year** limited warranty on TuffForms® structures, including TuffCrete™ and PolyShield.
- 5 Year** limited warranty on nylon covered cable net climbers and components.
- 5 Year** limited warranty on GT Symphony Freenotes™ Harmony Park components.
- 5 Year** limited warranty on Super Seats™.
- 5-Year** limited warranty on premature wear of VistaRope cables.
- 3 Year** limited warranty on Everybody Plays polyurea coated foam & rubber strips.
- 3 Year** limited warranty on SaddleMates® rubber and “C” springs.
- 3-Year** limited warranty on SureGrip Material
- 2 Year** limited warranty on Challenge Course timing components.
- 1 Year** limited warranty on all other GameTime products.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Main Structural Uprights

1. *Shall be 5” outside diameter tubing, 1/8” wall thickness, extruded from 6005A-T61 aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specification outlined herein.*

(AND/OR)

2. *Shall be 5” outside diameter, 11 gauge (nominal .120”) galvanized round tubing, manufactured to ASTM A-1011 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 45,000 psi and*

Last Updated 3.8.2022



A PLAYCORE Company

minimum tensile strength shall be 48,000 psi. The exterior surface is In line Zinc Flo Coating with a zinc coating of .03 thickness minimum, chromate conversion coated, and a clear high performance organic polymer is applied. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 91% minimum zinc dust content in organic resin, as per ASTM F-1043. All upright posts shall be coated with a custom formula TGIC.

- B. Tru Loc Connectors – Must attach directly to factory preset threaded insert in the uprights to ensure full field compliance with current safety standards. Hinged, or any clamps, that require field locating or field drilling or installation are not acceptable, due to the susceptibility of installation out of compliance with safety standards.
- C. Plastisol Coated Steel – Products including decks, platforms, steps, and bridges shall be fabricated from 11-gauge perforated steel with a .08" minimum thickness, textured slip-resistant polyvinyl chloride plastisol dipped coating. Square deck size must be at least 49" x 49" (2,401 square inches), and triangular decks must be equally 49" on all sides (1,040 square inches) and bolt through the uprights. Decks must attach directly to threaded inserts factory installed to uprights, using (2) 3/8" bolts at each upright connection point to eliminate the possibility of deck slipping. Plastisol coating must be free of latex and tested to meet California standards for phthalate levels and safe for children.
- D. Molded Polyethylene – Products are to be rotationally molded plastic with a 1/4" nominal wall thickness. All plastic is to be U.V. stabilized with optional graphics molded into the component during the molding process. Molded products shall have an anti-static additive and be available in any of the manufacturer's standard colors.
- E. High Density Polyethylene shall be made from either 1/2" or 3/4" thick (depending on application used) high density, UV-stabilized and color impregnated polyethylene.
- F. Metal Climbers and Enclosures – Products shall be fabricated from 1 5/16" OD x .083" (14 gauge) wall galvanized steel tubing with vertical members fabricated of 1 1/16" OD x .075 (15 gauge) wall galvanized steel tubing. All tubing used shall be an electrical resistance welded, cold rolled, high strength steel tubing. The exterior coating will consist of an In-line Zinc Flo Coating with a zinc coating of .03 thickness minimum, chromate conversion, and acrylic over-coating. The interior coating will consist of a special organic acrylic modified polyester.
- G. Cables - shall be 18mm polyester twisted type with the following properties: calculated tensile strength of >60kN, quantity 6 strands 2.8mm diameter each, steel strands shall have QTY 19 steel wires diameter .62mm each, quantity 3 fiber core 2.7mm diameter each, UV protected polyester impregnated. Terminations shall be made of the following materials: Aluminum forks, stainless steel D-shackles, stainless steel lifting eye nuts. Connections shall be made of the following: Aluminum connector eggs, aluminum 2-piece T-joints, aluminum T-joints, aluminum in-line connector, aluminum ferrules.
- H. Hardware – All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have

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an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate topcoat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. PowerScape Plus stainless-steel fasteners shall be button pin-in head, socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

2.02 REQUIRED COMPONENTS

- A. In addition to the requirements contained in this section, refer to layout drawings and schedules of components and accessories on drawings.
- B. All components, accessories, hardware, and other items required for a complete and usable system shall be provided.

2.03 FINISHES

- A. Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electrostatic method to a minimum thickness of four mils. Promptly after application of the powder, the coating shall be oven-cured at 350 degrees Fahrenheit. The color(s) of the polyester coating shall be as selected by the Architect from the manufacturer's standard and/or custom color selection charts. The paint process must adhere to the Powder Coat Institute 4000 Certification.
- B. Galvanized Finish – All components shall have a galvanized finish prior to powder coating and shall be protectively coated with ZRP, a zinc primer that forms a rust-resistant barrier layer. All galvanized surfaces shall be free of burs, splinters, and sharp edges.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General – Comply with manufacturer's written installation instructions.
- B. Uprights – Set posts in concrete footings. Protect finish during installation. Comply with locations, height, and plumb requirements.

3.02 FIELD QUALITY CONTROL

- A. Installation shall be performed by factory certified technicians with at least 3 years experience installing playground equipment



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3.03 COMPLETION

- A. Protect installed products until completion of project.
- B. Touch up, repair, or replace damaged products before substantial completion.
- C. Installer shall turn over all installation instructions, parts lists, maintenance instructions, tool kits, and spare materials to the owner upon completion.

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Synthetic Turf Safety Surface System Specification

PART1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions to the Contract, including General and Supplementary Conditions and Division 1 Specifications apply to this section.

1.2 DESCRIPTION OF WORK

- A. Provide all labor, materials, equipment, and tools necessary for the complete installation of synthetic turf safety surface. Surface shall meet the requirements of ASTM F 1292 that states that the surface must yield both a peak deceleration of the no more than 200 g's and a Head Injury Criteria (HIC) value of no more than 1,000 for a headfirst fall from the accessible height of the play equipment. Surface shall also meet the requirements of ASTM F 1951 for playground accessibility. The system shall consist of, but not necessarily be limited to the following:
 - 1. Synthetic Turf consisting of fibers that are a minimum of 1.125" long. Turf fiber construction consisting of polyethylene monofilament and texturized monofilament fibers tufted with pro-flow backing.
 - 2. Pad underlayment system consisting of foam pad base or chunk/SBR rubber base. Thickness and density of panels shall be sufficient so that the system meets the requirements of ASTM F 1292.
 - 3. Synthetic Turf infill, specifically designed for synthetic turf. It shall be rounded uniform quartz sand pigmented and sealed with an acrylic polymer designed to provide the look, feel and performance of optimally maintained natural grass.
- B. Work provided in this Section includes grading necessary to shape and drain the area and base preparation and installation of the synthetic turf in areas shown on drawings.

PART 2 – Products

2.1 SYNTHETIC TURF SAFETY SURFACE

- A. Aggregate Base- 50% crushed clean stone (size= ¾") / 50% crushed clean stone (size=1/4"). (Refer to Section 3.2-B)
- B. Synthetic Turf
 - a. Yarn Type: Polyethylene

- b. Yarn Cross Section: Polyethylene Monofilament Classic Spine/
Texturized Polypropylene thatch
 - c. Pile Height: Minimum 1.125"
 - d. Color: Field Green / Olive Green
 - e. Construction: Broadloom tufted
 - g. Tufting Gauge: 3/8"
- Finished Roll Width: 180" untrimmed
- C. Cushion layer to be foam pad or SBR/Chunk Base
 - a. Foam Type: Expanded Polypropylene
 - b. Bulk Density: 5.0-8.0 lb/cu ft
 - c. Effective Size: 23.59 Sq ft (net coverage)
 - d. Tensile Strength 55 psi
 - CI. Synthetic Turf Infill Material
 - a. Coefficient of Uniformity of ≤ 1.3 .
 - b. 98% of the particles retained on US Standard sieves 12 through 20
 - c. Coated Particles shall be smooth to resist mounding and compaction and have an angle of repose of 30° or less.
 - d. The finished product shall be 100% coated, shall repel water, be non-flammable and have <.001% dust content.
 - e. When placed in synthetic turf, the system shall have an Abrasion Index of 26+2.
 - f. Color: Green or Tan
 - g. Product to be Envirofill
 - CII. Splicing Material: Spun bonded coated polypropylene (12" seaming tape)
 - CIII. Adhesive: Mapei Synthetic Turf Adhesive

PART 3 – EXECUTION

3.1 GROUND PREPARATION

- A. General: The ground areas to receive synthetic turf safety surface is indicated on drawings
- B. Leveling and Site Preparation: All organic material and organic debris to be removed. Soil to be graded level and stabilized (compacted). Compaction shall be done with mechanical compactors, including vibratory compactors, and /or powered tampers and rollers.

3.2 BASE AND SYNTHETIC TURF CONSTRUCTION

- A. General: The area to be smooth and graded to allow proper drainage. Refer to grading plan. The overall grade of the playground is not to exceed 3%.
- B. Compacted Aggregate Base: Place 4 inches of aggregate base as leveling layer compacted to 90% - 95% of max density per AASHTO T99. Compaction shall be done with mechanical compactors including vibratory compactors and/or powered tampers and rollers. Aggregate should be a combination: 50% crushed clean stone (size=3/4") 50% crushed clean stone (size=1/4").
- C. Synthetic Turf: Place turf and cut to fit configuration as shown on Drawings. Splice seams. All seams must be attached with splicing film/ fabric and adhesive as approved by the manufacturer for this type of installation of their product.
- D. Infill: Apply layers of synthetic turf infill with a drop spreader and broom the turf fibers with stiff bristled broom to stand up and allow infill to settle into the bottom. Broom in Envirofill® infill at minimum 2 pounds per square foot.
- E. Anchor/ Edging: Edges of turf will be ground with mechanical fasteners, stakes or edging.

PART 4- WARRANTY

4.1 WARRANTY

- A. Warranty: 8 year U. V. degradation



Freestanding Play Events

Freestanding play equipment and accessories as manufactured by GameTime, a PlayCore Company, P.O. Box 680121, Fort Payne, Alabama 35968-0121, Phone: 1-800-235-2440, www.GameTime.com, shall adhere to the following specifications:

- A. Molded Polyethylene – Products are to be rotationally molded plastic with a ¼" nominal wall thickness. All plastic is to be U.V. stabilized with optional graphics molded into the component during the molding process. Molded products shall have an anti-static additive and be available in any of the manufacturer's standard colors.
- B. High Density Polyethylene shall be made from either ½" or ¾" thick (depending on application used) high density, UV-stabilized and color impregnated polyethylene.
- C. Cables - shall be 18mm polyester twisted type with the following properties: calculated tensile strength of >60kN, quantity 6 strands 2.8mm diameter each, steel strands shall have QTY 19 steel wires diameter .62mm each, quantity 3 fiber core 2.7mm diameter each, UV protected polyester impregnated. Terminations shall be made of the following materials: Aluminum forks, stainless steel D-shackles, stainless steel lifting eye nuts. Connections shall be made of the following: Aluminum connector eggs, aluminum 2-piece T-joints, aluminum T-joints, aluminum in-line connector, aluminum ferrules.
- D. Hardware – All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate topcoat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. PowerScape Plus stainless-steel fasteners shall be button pin-in head, socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

FINISHES

- A. Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electrostatic method to a minimum thickness of four mils. Promptly after application of the powder, the coating shall be oven-cured at 350 degrees Fahrenheit. The color(s) of the polyester coating shall be as selected by the Architect from the manufacturer's standard and/or custom color selection charts. The paint process must adhere to the Powder Coat Institute 4000 Certification.
- B. Galvanized Finish – All components shall have a galvanized finish prior to powder coating and shall be protectively coated with ZRP, a zinc primer that forms a rust-resistant barrier layer. All galvanized surfaces shall be free of burs, splinters, and sharp edges.

Individual Product Specifications

Motion:

6242 – ShadowPlay TriRunner®

- 8 5/8" O.D. x .250", 5" O.D. x .180, 2 3/8" O.D. x .134, 2 3/8" O.D. x .154, and 1 5/16" O.D. x .133" wall galvanized steel tubing
- 1/4", 3/16", 3/8", 1/8", and 1/2" hot rolled steel
- 2 3/4" O.D., 4", and 3 1/4" O.D. machined steel
- 5 1/2" O.D. x .500" wall D.O.M. MEC. tube
- 3/16"-thick aluminum
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

6272 – Merry Go All

- 1-5/16" O.D., 3-1/2" O.D., 2-7/8" O.D., 1-5/8" O.D., 2-3/4" O.D., 8-1/2" O.D., 1 1/4", 3" SCH. 40 galvanized pipe
- 14 gauge galvanized steel
- 11 gauge, 1/4", 3/16", 1/8" hot rolled steel
- 5/8" cold rolled steel
- 3/16" Color-impregnated, molded polyethylene
- Linear low-density material
- UV-stabilized color
- Anti-static compound additive
- All-weld assembly
- Coated after fabrication with a powder coat finish

Music:

3256 – Cantata Chimes

- 2 3/8" O.D. x .095", 3-1/2" O.D. X .095", and 1-5/16" O.D. x .083" wall galvanized steel tubing
- 11 Ga. 18" x 1/8" and 11 Ga. 40" x 1/8" stainless steel
- 3/4"-thick high density, UV-stabilized and color-impregnated polyethylene
- 3/8"-thick PVC sheet
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

3259 – Concert Trio

- 3-1/2" O.D. X .095" and 1-5/16" O.D. x .083" wall galvanized steel tubing
- 3/4"-thick high-density polyethylene
- 6", 8", and 10" plastic pipe
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

4677 – Melody Chimes

- 2 3/8" O.D. x .095", 3-1/2" O.D. X .095", and 1-5/16" O.D. x .083" wall galvanized steel tubing
- 3/4"-thick high density, UV-stabilized and color-impregnated polyethylene
- 3/8"-thick PVC sheet
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating



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4680 – Jazz Combo

- 3-1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing
- 1/2"-thick high-density polyethylene
- 11 gauge hot rolled steel
- 1/4" - 20 x 2" I.D. SS U-Bolt
- Tygon rubber
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

Panels:

6375 – Communication Panel

- 1/2" thick digital high pressure laminate
- 3-1/2" O.D. x .095" and 1-5/16" O.D. x .083" wall galvanized steel tubing
- 413 die cast aluminum alloy
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder

Sensory Wave:

3208 – Sensory Wave® Climber Horseshoe Arch

- 3 1/2" O.D. X .095" wall galvanized steel tubing
- 1/4" hot rolled steel
- Linear low-density polyethylene
- All-weld assembly
- Coated after fabrication with TGIC powder coating



Powerscape Playground System

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes composite structure, stand-alone play events and accessories.
- B. Basis of design is **PowerScape®** modular play structures, free-standing play equipment and accessories as manufactured by GameTime, a PlayCore Company, P.O. Box 680121, Fort Payne, Alabama 35968-0121, Phone: 1-800-235-2440, www.GameTime.com.

1.02 SUBMITTALS

- A. Product Data: Include physical characteristics such as shape, dimensions, gauge and material for each component. Provide finish information and available colors.
- B. Shop Drawings: Include plans, elevations, details, and installation instructions for each component.
- C. Warranty: Include sample of manufacturer's standard warranty.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Equipment components shall be certified by IPEMA's third party product certification service. Equipment and structural components shall bear the IPEMA certification seal. IPEMA validation is available at www.ipema.org.
- B. Installer: Must be certified by the manufacturer.
- C. Safety Standards: Comply with requirements of ASTM F 1487.

1.04 WARRANTY

- A. Warranty shall meet or exceed the warranty provisions of GameTime as follows:

Lifetime limited warranty on PowerScape®, PrimeTime®, Modern City®, Xscape® & IONiX® uprights.

Lifetime limited warranty on Tru-Loc® connections and upright bolt-through connections.

Lifetime limited warranty on all hardware.

20 Year limited warranty on Timber Décor™ & Timbers recycled plastic lumber.

15 Year limited warranty on metal decks, pipes, rungs, rails, loops, braces, and footbucks.

15 Year limited warranty on rotationally molded products.

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- 15-Year** limited warranty on VistaRope nylon bearings and ring junction pieces.
- 10 Year** limited warranty on GTFit, THRIVE and Challenge Course posts & bars.
- 10 Year** limited warranty on site furnishings against structural failure.
- 10-Year** limited warranty on SunBlox® products.
- 10 Year** limited warranty on integrated GTShade® products.
- 10 Year** limited warranty on fiberglass and DHPL signage.
- 10-Year** limited warranty on VistaRope WeaveTech cables.
- 5 Year** limited warranty on TuffForms® structures, including TuffCrete™ and PolyShield.
- 5 Year** limited warranty on nylon covered cable net climbers and components.
- 5 Year** limited warranty on GT Symphony Freenotes™ Harmony Park components.
- 5 Year** limited warranty on Super Seats™.
- 5-Year** limited warranty on premature wear of VistaRope cables.
- 3 Year** limited warranty on Everybody Plays polyurea coated foam & rubber strips.
- 3 Year** limited warranty on SaddleMates® rubber and “C” springs.
- 3-Year** limited warranty on SureGrip Material
- 2 Year** limited warranty on Challenge Course timing components.
- 1 Year** limited warranty on all other GameTime products.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Main Structural Uprights

1. *Shall be 5” outside diameter tubing, 1/8” wall thickness, extruded from 6005A-T61 aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specification outlined herein.*

(AND/OR)

2. *Shall be 5” outside diameter, 11 gauge (nominal .120”) galvanized round tubing, manufactured to ASTM A-1011 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 45,000 psi and*

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minimum tensile strength shall be 48,000 psi. The exterior surface is In line Zinc Flo Coating with a zinc coating of .03 thickness minimum, chromate conversion coated, and a clear high performance organic polymer is applied. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 91% minimum zinc dust content in organic resin, as per ASTM F-1043. All upright posts shall be coated with a custom formula TGIC.

- B. Tru Loc Connectors – Must attach directly to factory preset threaded insert in the uprights to ensure full field compliance with current safety standards. Hinged, or any clamps, that require field locating or field drilling or installation are not acceptable, due to the susceptibility of installation out of compliance with safety standards.
- C. Plastisol Coated Steel – Products including decks, platforms, steps, and bridges shall be fabricated from 11-gauge perforated steel with a .08" minimum thickness, textured slip-resistant polyvinyl chloride plastisol dipped coating. Square deck size must be at least 49" x 49" (2,401 square inches), and triangular decks must be equally 49" on all sides (1,040 square inches) and bolt through the uprights. Decks must attach directly to threaded inserts factory installed to uprights, using (2) 3/8" bolts at each upright connection point to eliminate the possibility of deck slipping. Plastisol coating must be free of latex and tested to meet California standards for phthalate levels and safe for children.
- D. Molded Polyethylene – Products are to be rotationally molded plastic with a 1/4" nominal wall thickness. All plastic is to be U.V. stabilized with optional graphics molded into the component during the molding process. Molded products shall have an anti-static additive and be available in any of the manufacturer's standard colors.
- E. High Density Polyethylene shall be made from either 1/2" or 3/4" thick (depending on application used) high density, UV-stabilized and color impregnated polyethylene.
- F. Metal Climbers and Enclosures – Products shall be fabricated from 1 5/16" OD x .083" (14 gauge) wall galvanized steel tubing with vertical members fabricated of 1 1/16" OD x .075 (15 gauge) wall galvanized steel tubing. All tubing used shall be an electrical resistance welded, cold rolled, high strength steel tubing. The exterior coating will consist of an In-line Zinc Flo Coating with a zinc coating of .03 thickness minimum, chromate conversion, and acrylic over-coating. The interior coating will consist of a special organic acrylic modified polyester.
- G. Cables - shall be 18mm polyester twisted type with the following properties: calculated tensile strength of >60kN, quantity 6 strands 2.8mm diameter each, steel strands shall have QTY 19 steel wires diameter .62mm each, quantity 3 fiber core 2.7mm diameter each, UV protected polyester impregnated. Terminations shall be made of the following materials: Aluminum forks, stainless steel D-shackles, stainless steel lifting eye nuts. Connections shall be made of the following: Aluminum connector eggs, aluminum 2-piece T-joints, aluminum T-joints, aluminum in-line connector, aluminum ferrules.
- H. Hardware – All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have

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an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate topcoat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. PowerScape Plus stainless-steel fasteners shall be button pin-in head, socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

2.02 REQUIRED COMPONENTS

- A. In addition to the requirements contained in this section, refer to layout drawings and schedules of components and accessories on drawings.
- B. All components, accessories, hardware, and other items required for a complete and usable system shall be provided.

2.03 FINISHES

- A. Polyester (Powder) Coating – The polyester coating shall be uniformly applied by the electrostatic method to a minimum thickness of four mils. Promptly after application of the powder, the coating shall be oven-cured at 350 degrees Fahrenheit. The color(s) of the polyester coating shall be as selected by the Architect from the manufacturer's standard and/or custom color selection charts. The paint process must adhere to the Powder Coat Institute 4000 Certification.
- B. Galvanized Finish – All components shall have a galvanized finish prior to powder coating and shall be protectively coated with ZRP, a zinc primer that forms a rust-resistant barrier layer. All galvanized surfaces shall be free of burs, splinters, and sharp edges.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General – Comply with manufacturer's written installation instructions.
- B. Uprights – Set posts in concrete footings. Protect finish during installation. Comply with locations, height, and plumb requirements.

3.02 FIELD QUALITY CONTROL

- A. Installation shall be performed by factory certified technicians with at least 3 years experience installing playground equipment



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3.03 COMPLETION

- A. Protect installed products until completion of project.
- B. Touch up, repair, or replace damaged products before substantial completion.
- C. Installer shall turn over all installation instructions, parts lists, maintenance instructions, tool kits, and spare materials to the owner upon completion.

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Individual Product Specifications

Access Components:

90018 – Archway w/ Guardrail

- 1-5/16" O.D. x .083" wall galvanized steel tubing
- 3/16" hot rolled mounting tabs
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder

90019 – Archway w/ Barrier

- 1-5/16" O.D. x .083" and 1-1/16" O.D. x .075" wall galvanized steel tubing
- 3/16" hot rolled steel
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating.

90673 – Ramp (Guardrail)

- 1-5/16" O.D. x .083" and 1- 1/16" O.D. x .075" wall galvanized steel tubing
- 2" square x 3/16" wall tubing
- 3/8" x 3-1/2" hot rolled steel
- Matte PVC coating
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder

Attachments:

3905 – Bells

- 1-5/16" O.D. x .083" wall galvanized steel tubing
- 11 gauge steel
- ¾" high density polyethylene
- All weld assembly
- Coated after fabrication in TGIC polyester powder coating

3908 – Color Window

- ¼"-thick polycarbonate

3910 – Color Window

- ¼"-thick polycarbonate

3912 – Color Window

- ¼"-thick polycarbonate

3914 – Color Window

- ¼"-thick polycarbonate

3917 – Color Window

- ¼"-thick polycarbonate

3924 – Flat Mirror

- ¼" polycarbonate

3928 – Fun Mirror

- ¼" polycarbonate

3938 – Color Wheel

- 1/2" high density polyethylene
- 3/16"-thick colored UV-inhibitive acrylic

3942 – Hourglass

- 4.5mm stainless steel
- 1/2" high density polyethylene
- 3/16"-thick UV-inhibitive acrylic

3945 – Rain

- 14 gauge stainless steel
- 4.5mm stainless steel
- 1/2" high density polyethylene
- 3/16"-thick UV-inhibitive acrylic

3947 – Pachinko

- 1/2" high density polyethylene
- 10mm nylon ball
- 3/16"-thick UV-inhibitive acrylic
- Nylon spacers

3950 – Roller Balls

- 1/2" high density polyethylene
- Colored acrylic spheres

4957 – Bubble Mirror

- Injection molded from color-impregnated Polypropylene, Polycarbonate, color-impregnated ABS plastic, or ABS plastic with a mirror finish applied

4962 – Echo Chamber

- Injection molded from color-impregnated Polypropylene, Polycarbonate, color-impregnated ABS plastic, or ABS plastic with a mirror finish applied

81695 – Train Whistle

- 1 5/16" O.D. x .083"-thick galvanized steel tubing
- 3 1/2" O.D. x 1/8"-thick wall tubing
- 1.315 O.D. aluminum pipe
- 3/16" x 2" x 3 1/8" aluminum
- 3/4"-thick high-density, UV-stabilized and color-impregnated polyethylene
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

90104 – Schooner Climber

- 1-5/16" O.D. x .083" and 1-1/16" O.D. x .075" wall galvanized steel tubing
- 3/16"-thick stainless steel
- All-weld construction
- Coated with a custom formula of TGIC polyester powder coating

90317 – Toad Stool Climber

- 2-3/8" O.D. x .095" wall galvanized steel tubing

- 3/16" x 6" diameter hot rolled steel
- GTX Engineered Rubber
- 12-7/8" diameter x 12"

Decks:

16818 – Trapezoid Deck

- .120" x 3-3/8" and .120" x 2-1/2" hot rolled steel
- Minimum surface area of 2,816 square inches
- 69 5/16" center to center spacing on the upright posts
- 12" support grid underneath the entire deck surface
- One-piece welded assembly
- Coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating
- Directly bolted to the upright posts with eight 3/8" diameter button-pin-in-head, hex socket cap screws

80000 – Square Deck - 49"

- 3/16" x 3-1/2", 1/4" x 3-1/2", and 1/8" x 2-1/2" hot rolled steel
- Minimum surface area of 2,381 square inches
- 49" center to center spacing on the upright posts
- 12" support grid underneath the entire deck surface
- One-piece welded assembly
- Coated after fabrication with an oven cured matte finish polyvinyl chloride (PVC) coating
- Directly bolted to the upright posts with eight 3/8" diameter button-pin-in-head, hex socket cap screws

Links:

90021 – Transfer System with Barrier

- 1-5/16" O.D. x .083" and 1-1/16" O.D. x .075", and 2" square x 3/16" wall galvanized steel tubing
- 11 gauge punched steel
- Matte PVC coating
- Protective P&O finish
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

Panels:

80988 – Train Sounds Panel

- 3/4"-thick HDPE
- Tamper resistant hardware
- Powder coating

90176 – Accessible Crow's Nest w/ Gizmo

- 1-5/16" O.D. x .083" and 1-1/16" O.D. x .075" wall galvanized steel tubing
- 3/16" x 3-1/2" and 1/8" x 2-1/2" hot rolled steel
- Punched steel
- 2-1/2"-thick color-impregnated linear low density polyethylene
- Minimum surface area of 501 square inches
- All-welded assembly



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- Coated after fabrication with a custom formula of TGIC polyester powder coating

90520 – Wide Rung Enclosure Guardrail Double Mold with Solid Wheel

- 1-5/16" O.D. x .083" and 1-1/16" O.D. x .075" wall galvanized steel tubing
- Durable proprietary plastic
- 13-3/4" in diameter
- All-weld assembly
- Coated after fabrication with a custom formula of TGIC polyester powder coating

Slides:

90507 – Rumble and Roll Zip Slide - 2'-6"/3'

- Color-impregnated linear low-density polyethylene
- Minimum .25" wall thickness
- Minimum inside bed width of 17.5"
- Minimum 40" radius
- Maximum of 4°
- Integrated drain at 5°