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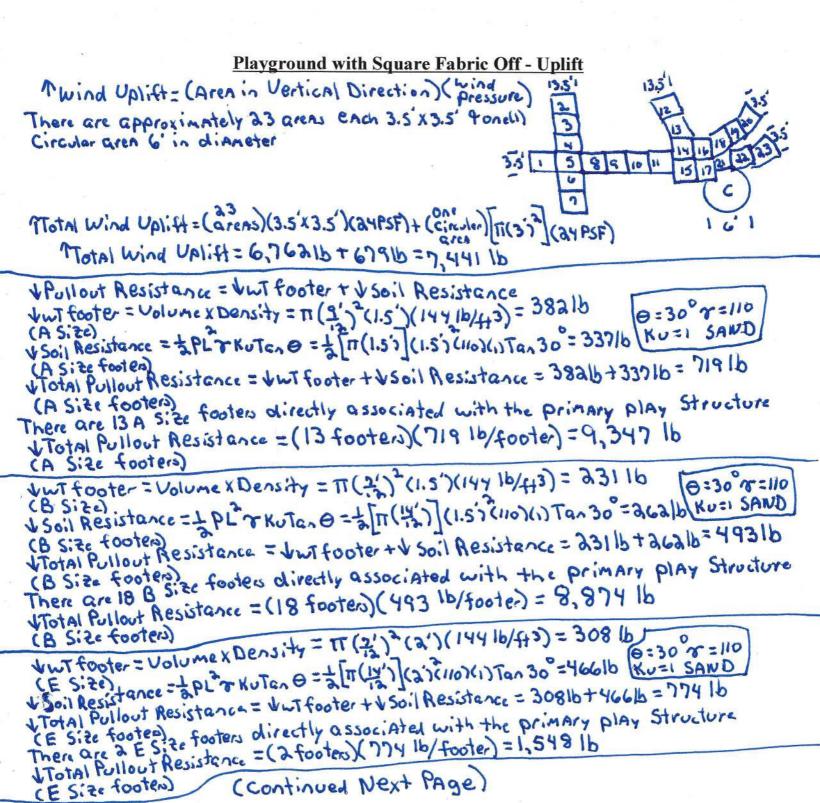
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Dale V. Mudrak P.E. 16508 Hamilton Dr Orlando FL 32833 Tel 321-201-8749 FL PE # 42669

Playground with Square Fabric Off - Uplift

(Continued From Previous Page)

Why footer = Volume x Dens: ty = Th (18') (3') (144 lb/43) = 3,054 lb (H5:2e)

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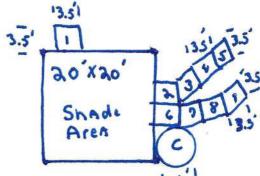
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Dale V. Mudrak P.E. 16508 Hamilton Dr Orlando FL 32833 Tel 321-201-8749 FL PE # 42669 Playground with Square Fabric Off - Overturning
The design method utilized to analysis the lateral wind loads was accomplished by the

Sum of the moments around a specific point (see exhibit B).
(Mwind=(Aren)(wind Pressure)(Distance)
CMIWING = (arens) (3.5 x 3.5) (24PSF) [3+1+3.5] = 10,143+416
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Cun Wind = 14 037 +41h
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Em Total Wind = Zimi-3 = 10,143 filb+19,037 filb +3,749 filb = 32,929 filb
7 M Foundation = 4 Tullout Mesistance x Distance x Distance x Distance
VPullout Resistance for A Size footen=71916, BSize=49316, E Size=77416 H Size=5,7
(See Pages 798 for Villout Resistance Calculations)
GMIFOUNDAtion= (71916)[9/2] (1 footer) = 539 ftib
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FActor of Safety = Fs = GMTotal Foundation = 247,881=7.53
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Orlando FL 32833
Tel 321-201-8749
FL PE # 42669

Playground with Square Fabric On - Uplift

There are approximately 9 areas each 3.5%3.5, one(1)
Circular area 6 in diameter 4 one(1) Shade area 20'x 20' in Size



9 Total Wind Uplift = (Grens) (3.5x3.5) (14PSF) + (Circula) [TT(3)] (14PSF) + (Shadi) (20'x20') (14PSF) ATOTAL WIND UPLIFF = 1,544 16+396 16 + 5,600 16 = 7,540 16

V Pullout Resistance = VWT footer + V Soil Resistance

VTotal Pullout Resistance = 42,757 16 (A+B+E+H Size footes)

(See Pages 798 for UTOTAL Pullout Resistance Calculation)

Dale V. Mudrak P.E. 16508 Hamilton Dr Orlando FL 32833 Tel 321-201-8749 FL PE # 42669 The design method utilized to analysis the lateral wind loads was accomplished by the Sum of the moments around a specific point (see exhibit B).

C'm wind = (Aren) (wind Pressure) (Distance)

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C'm wind = (aren) (3.5 x 3.5) (14PSF) (3+1+3.5+3.5)

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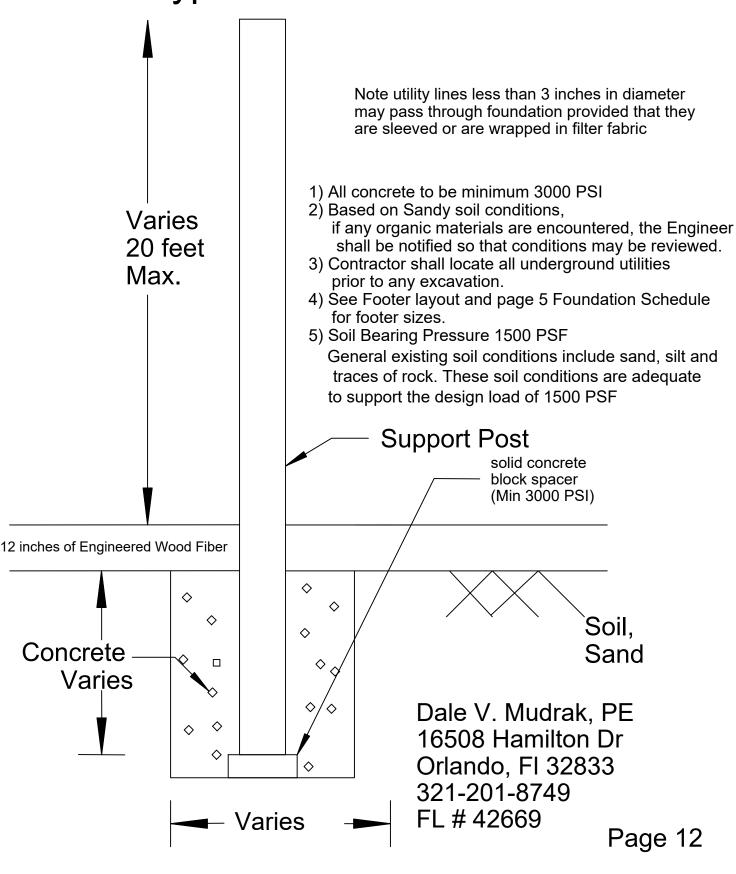
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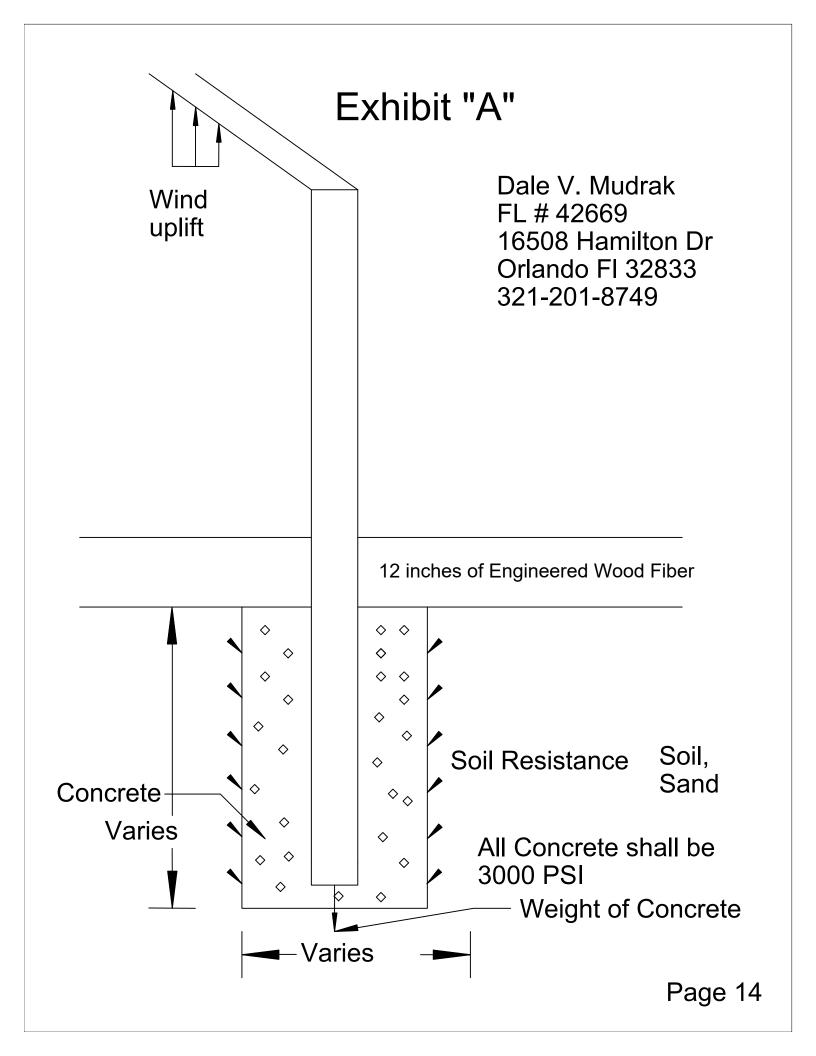
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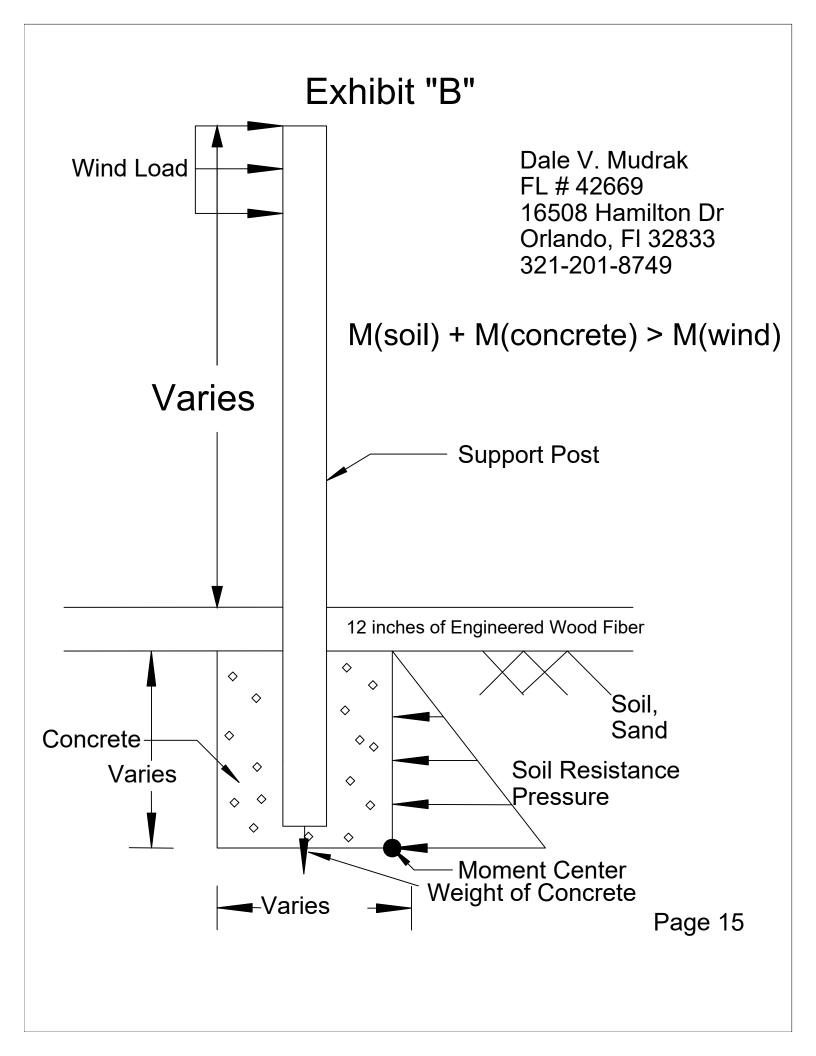
Dale V. Mudrak P.E. 16508 Hamilton Dr Orlando FL 32833 Tel 321-201-8749 FL PE # 42669

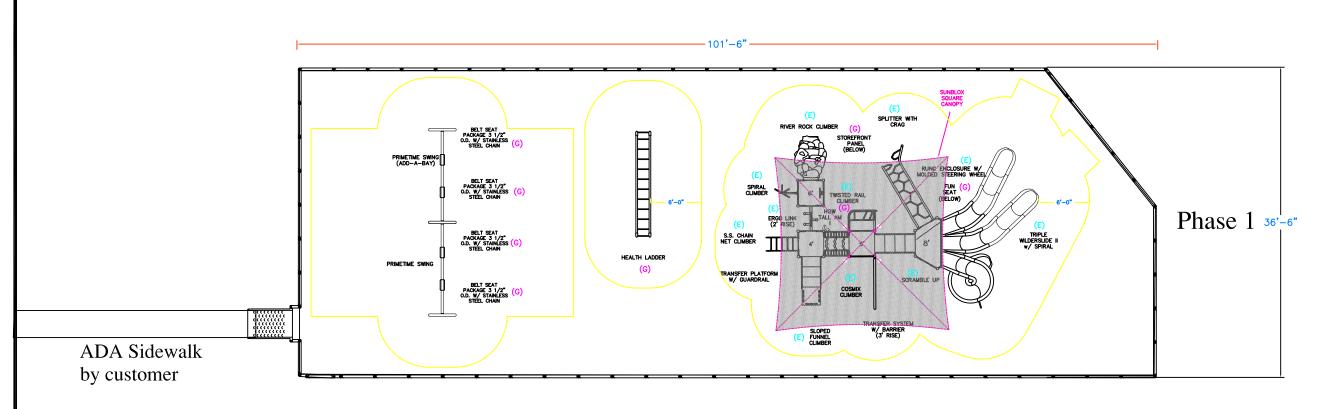
Typical Footer Detail



Typical Playground Deck with Shade Footer Detail Note utility lines less than 3 inches in diameter may pass through foundation provided that they are sleeved or are wrapped in filter fabric 1) All concrete to be minimum 3000 PSI 2) Based on Sandy soil conditions, **Varies** if any organic materials are encountered, the Engineer 25 feet shall be notified so that conditions may be reviewed. 3) Contractor shall locate all underground utilities Max. prior to any excavation. 4) See Footer layout and page 6 Foundation Schedule for footer sizes. 5) Soil Bearing Pressure 1500 PSF General existing soil conditions include sand, silt and traces of rock. These soil conditions are adequate to support the design load of 1500 PSF Support Post solid concrete block spacer (Min 3000 PSI) 12 inches of Engineered Wood Fiber Soil. \Diamond Concrete Sand 36 inch Dale V. Mudrak, PE \Diamond 16508 Hamilton Dr \Diamond Orlando, FI 32833 321-201-8749 FL # 42669 –36 inch⊣ Page 13







Playground Equipment Details -

Age Group: 5-12

Elevated Components (E): 10 Accessible Elevated Components: 10 (minimum required 4)

Ground Level Components (G): 8 (minimum required 3) Types of Components: 4 (minimum required 3)

This layout meets the requirements of the 2020 Florida Building Code, 7th Edition and the 2020 Florida Building Code, 7th Edition Accessibility Code.

Playground Layout is in Compliance with DOJ 2010 ADA Standards for Accessible Design. Including all surfacing material and accessible routes.

All Components are IPEMA Certified All Components are ASTM & CPSC Compliant

This layout meets the requirements of the Florida Building Code and Accessibility Code 1008.

(E) = ELEVATED COMPONENTS (G) = GROUND LEVEL COMPONENTS



150 PlayCore Drive SE Fort Payne, AL 35967 www.gametime.com

Belmont Academy Charter School Lake City, FL Phase 1 Rev 2

DRP

This Unit includes play events and routes or travel specifically designed for special needs users. It is the opinion of the manufacturer that these play events and routes of travel conform to the accessibility equirements of the ADA (American with Disabilities Act)

Total Elevated Play Components Total Elevated Play Components Accessible By Ramp Required Required Total Elevated Components Accessible By Transfer Required Total Accessible Ground Level Components Shown Required Total Different Types Of Ground Level Components

This play equipment is recommended for children ages

Minimum Area Required Scale: NTS This drawing can be scaled only when in an 18" x 24" format

IMPORTANT: Soft resilient surfacing should be placed in the use zones of all equipment, as specified for each type of equipment, and at depths to meet the critical fall heights as specified by the U.S. consumer Product Safety Commission, ASTM standard F 1487 and Canadian Standard CAN/CSA-Z-614

03/31/2022 Drawing Name: Belmont Academy (G-E)

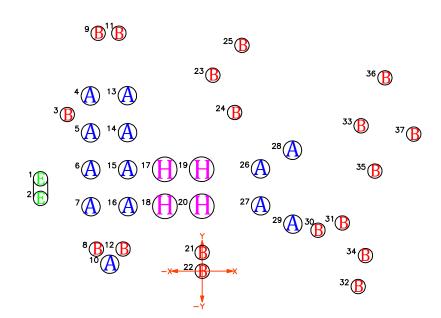
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FOOTER SCHEDULE

Footer Type	Footer Diameter (inches)	Footer Depth (inches)	Configuration
A	18	18	Round
В	14	18	Round
Е	14	24	Round
Н	36	36	Round

	FOOTINGS ORDINATE TABLE			
HOLE	X	Y	DIAG	
1	-13'-1 1/2"	7'-6"	15'-1 1/2"	
2	-13'-1 1/2"	5'-11"	14'-4 1/2"	
3 -	10'-11 1/2'	12'-8 1/2"	16'-9 1/2"	
4	-9'-1"	14'-2 1/2"	16'-10 1/2"	
5	-9'-1"	11'-2 1/2"	14'-5"	
6	-9'-0 1/2"	8'-2 1/2"	12'-2 1/2"	
7	-9'-0 1/2"	5'-2 1/2"	10'-5"	
8	–8'–7"	1'-9 1/2"	8'-9 1/2"	
9	-8'-5 1/2" -7'-6"	19'-3 1/2"	21'-1"	
10	-7'-6"	0′-7″	7'-6 1/2"	
11	-6'-9 1/2"	19'-4"	20'-5 1/2"	
12	-6'-9 1/2" -6'-5"	19'-4" 1'-9 1/2"	6'-8"	
13	-6'-1"	14'-3"	15'-6"	
14	-6'-1"	11'-3"	12'-9 1/2"	
15	-6'-0 1/2"	8'-3"	10'-2 1/2"	
16	-6'-0 1/2"	5'-3"	8'-0"	
17	-3'-0 1/2"	8'-3"	8'-9 1/2"	
18	-3'-0 1/2"	5'-3"	6'-1"	
19	-0'-0 1/2"	8'-3 1/2"	8'-3 1/2"	
20	-0'-0 1/2"	5'-3 1/2"	5'-3 1/2"	
21	0'-0"	1'-6"	1'-6"	
22	0'-0"	0'-0"	0'-0"	
23	0'-10 1/2"	15'-11"	15'-11"	
24	2'-7 1/2"	12'-10 1/2"	13'-1 1/2"	
25	3'-2 1/2"	18'-4"	18'-7 1/2"	
26	4'-8 1/2"	8'-3 1/2"	9'-6 1/2"	
27	4'-9"	5'-3 1/2"	7'-1 1/2"	
28	7'-4"	9'-10"	12'-3"	
29	7'-4"	9'-10" 3'-10"	8'-3 1/2"	
30	9'-4 1/2"	3'-4"	9'-11 1/2"	
31	11'-4 1/2"	3'-11"	12'-0"	
32	12'-8"	-1'-3"	12'-8 1/2"	
33	12'-10 1/2" 13'-3"	11'-9 1/2"	17'-5 1/2"	
34	13'-3"	1'-3"	13'-3 1/2"	
35	14'-0"	8'-1 1/2"	16'-2 1/2"	
36	14'-0" 14'-10"	15'-8 1/2"	21'-7"	
37	17'-2"	11'-1 1/2"	20'-5 1/2"	

NOTE:
ON NON-LETTERED HOLES, TO ENSURE
CONCRETE REQUIREMENTS PLEASE REFER TO
EACH COMPONENTS INSTALLATION SHEETS.







150 PlayCore Drive SE Fort Payne, AL 35967 Www.gametime.com

Representative DRP

BELMONT ACADEMY CHARTER SCHOOL LAKE CITY, FL PHASE 1 REV 2

This play equipment is recommended for children ages

5 - 12

Minimum Area Required:

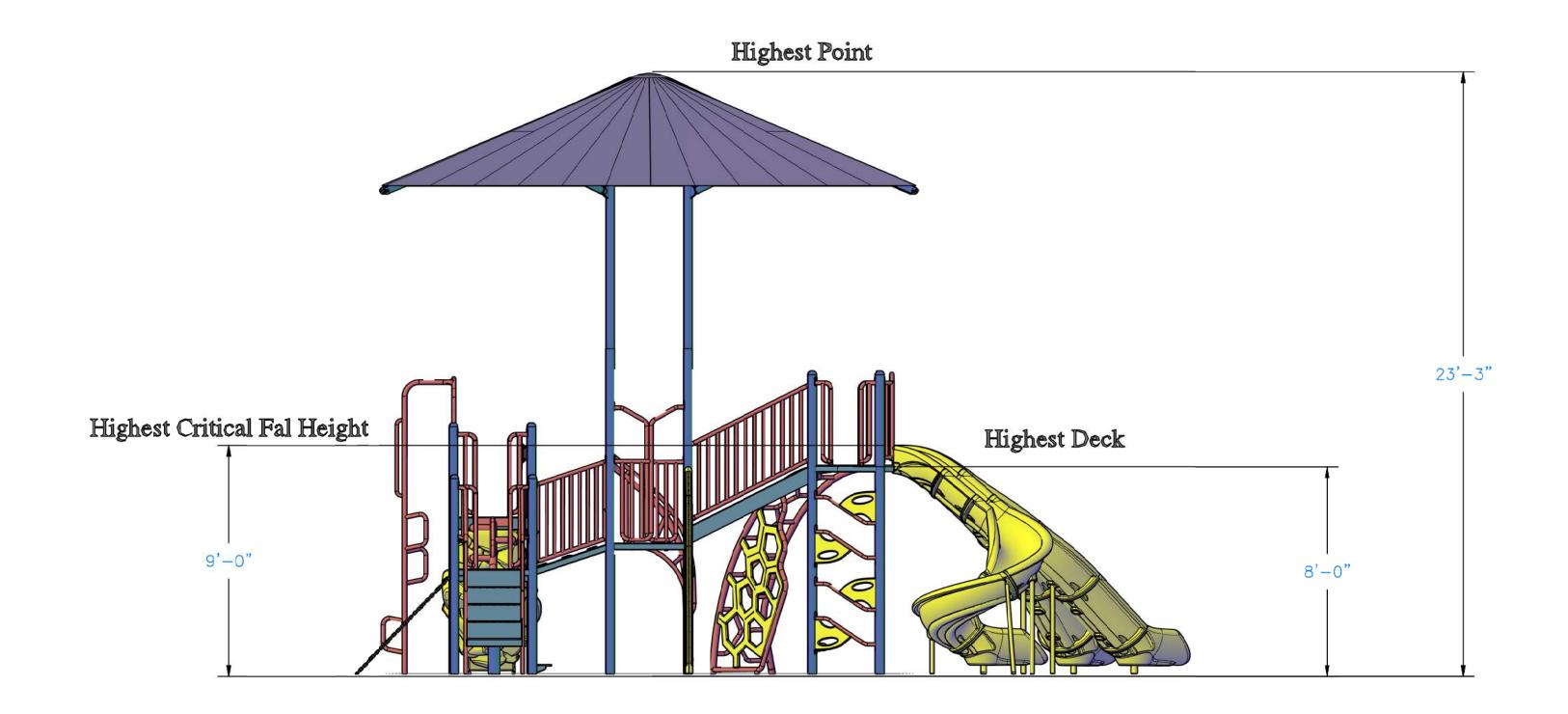
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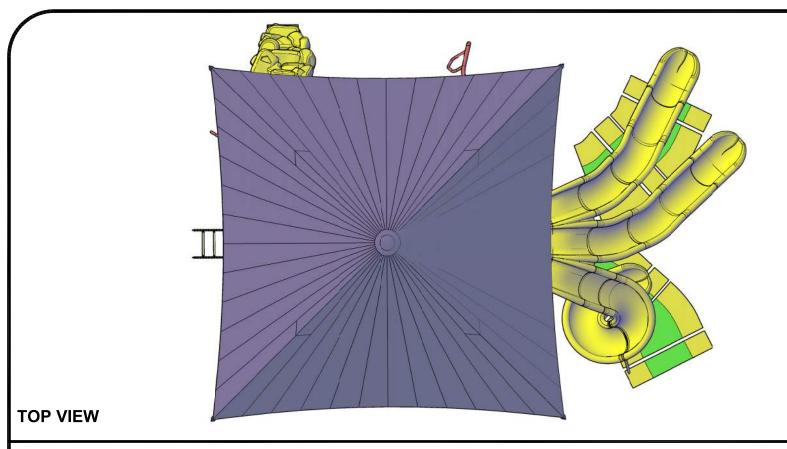
This drawing can be scaled only when in an 18" x 24" format

IMPORTANT: Soft resilient surfacing should be placed in the use zones of all equipment, as specified for each type of equipment, and at depths to meet the critical fall heights as specified by the U.S. consumer Product Safety Commission.

ASTM standard F 1487 and Canadian Standard CAN/CSA-Z-614

Drawn By:
SC
Date:
03/31/2022
Drawing Name:
BELMONT (FOOTERS)







ISO VIEW





RIGHT SIDE VIEW



FRONT VIEW

GameTime) APLACORE Company
150 PlayCore Drive SE



1 4 0 0 1 CERTIFIED Fort Payne, AL 35967 www.gametime.com



Belmont Academy Charter School Lake City, FL

Representative DRP

This play equipment is recommended for children ages

5-12

Scale: NTS

This drawing can be scaled only when in an 11" x 17" format

Minimum Area Required:

IMPORTANT: Soft resilient surfacing should be placed in the use zones of all equipment, as specified for each type of equipment, and at depths to meet the critical fall heights as specified by the U.S. consumer Product Safety Commission, ASTM standard F 1487 and Canadian Standard CAN/CSA-Z-614

Drawn By: SC

Date:

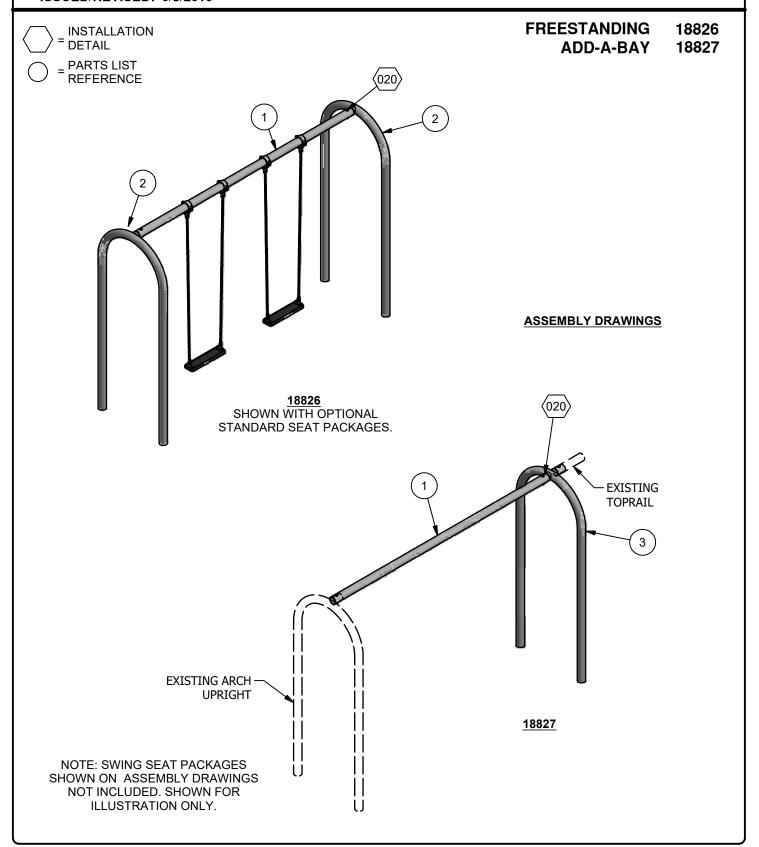
04/01/2022

Drawing Name: Belmont (4View)

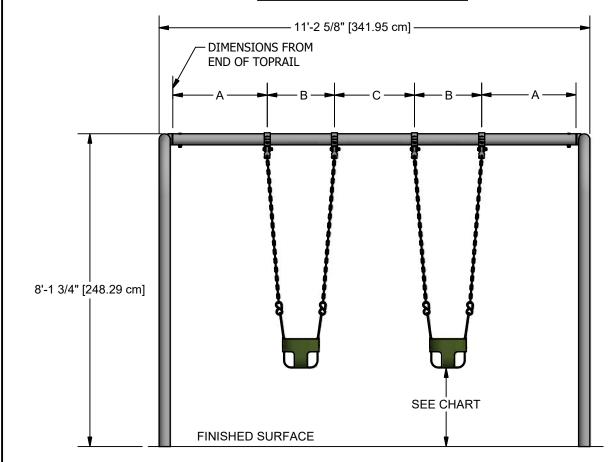




A PLAYCORE Company 1-800-235-2440 ISSUED/REVISED: 6/5/2019 18826 ARCH SWING



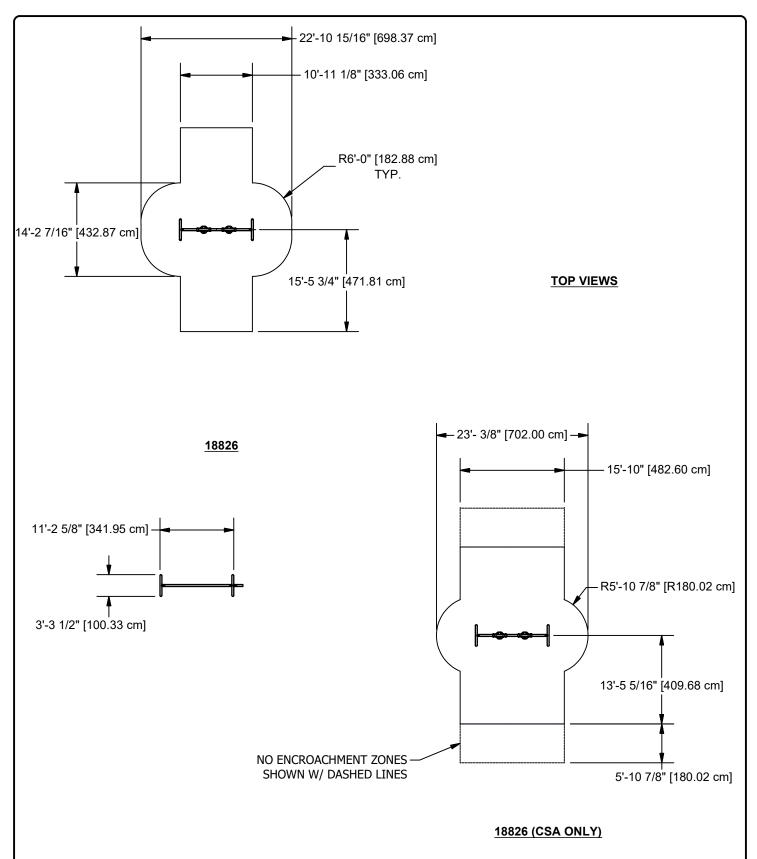
TOPRAIL DIMENSIONS		
DIM A	2'-5 1/2" [74.93 cm]	
DIM B	1'-9" [53.34 cm]	
DIM C	2'-1" [63.50 cm]	



18826 SHOWN (18827 SIMILAR) WITH OPTIONAL ENCLOSED TOT SEAT PACKAGES (NOT INCLUDED)

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



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 ÚSE 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 ZÓNE SURFACING, AND NO ENCROACHMENT ZONE DIMENSIONS BY 10'-11 1/8" [3.33M].

PAGE 4

SPECIFICATIONS

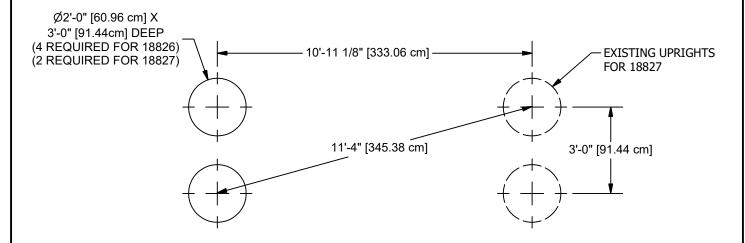
TOPRAIL AND ARCH: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Arch includes a welded 3-1/8" O.D. galvanized steel sleeve to which the toprail is fastened.

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.



GROUND PLAN

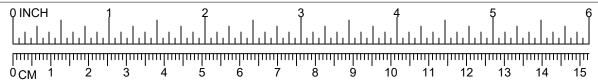
NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 005. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE. CONCRETE REQUIRED: .23 CUBIC YARDS .18 CUBIC METERS (PER HOLE)

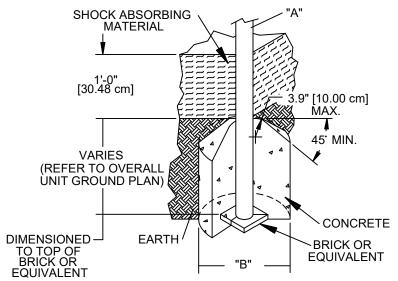
DETAILS -for-18826 & 18827

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]	
ARCH SWING		
5" [12.70 cm]	2'-0" [60.96 cm]	

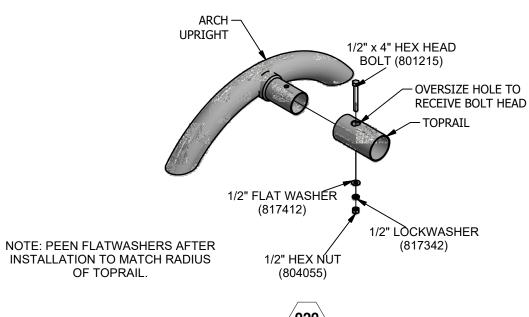
NOTES:

-SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY -SUGGESTED MINIMUM CONCRETE

RATING: 3000 PSI

005

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.





8691 SEAT

ISSUED/REVISED: 10/30/17

= INSTALLATION DETAIL

= PARTS LIST REFERENCE

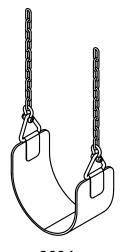


8695, 8696, 8914, SS8914, SS8695, SS8696

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



8908, 8909, 8910, 8911, 8918, 8915, SS8918, SS8908, SS8910, SS8909, SS8911



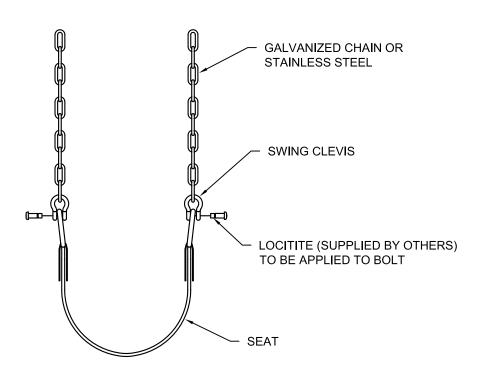
8691

SPECIFICATIONS

- *Rights are reserved to disontinue 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.



8693



SEAT ASSEMBLY (WITH GALVANIZED CHAIN OR STAINLESS STEEL)

1461 **SWING HANGER**

ISSUED/REVISED: 3/15/16

INSTALLATION DETAIL

> PARTS LIST REFERENCE

> > Place Swing Haner on Toprail as shown. Tighten in increments, alternating

GALVANIZED 1461 GALVANIZED 1462 PAINTED 1463 PAINTED 1485 PAINTED 1486 GALVANIZED 1487

SPECIFICATIONS

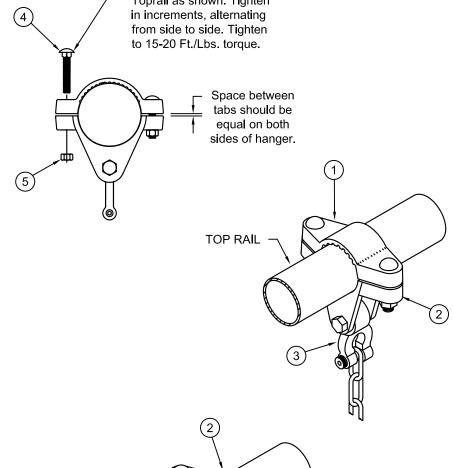
MATERIAL: All swing hanger castings shall be cast of malleable iron. HARDWARE: All Carriage bolts, lockwashers, hex nuts, and shoulder bolts shall be zinc plated with a clear chromate coating.

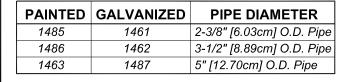
FINISH: All top and bottom clevis parts shall be galvanized or powder coated. The swing pendulum shall

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.





NOTE: BOLT HEAD TO FACE

INTERIOR OF SWING

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

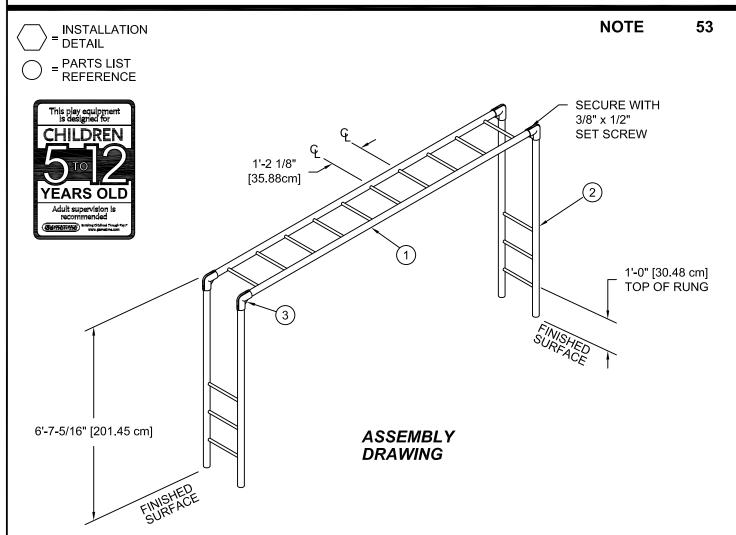
THREADED SIDE OF PENDULUM

PAGE 5



HEALTH LADDER

ISSUED/REVISED: 8/21/18



PARTS LIST

REF		NO.	PART
NO.	DESCRIPTION	REQ'D	NUMBER
1	Top Ass'y	1	215532
2	End Ass'y	2	215534
3	Elbow	4	137352
	Hardware Complete	1	100301
	3/8" X 1/2" Set Screw	16	811550*

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.

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.

STEP 1: IMPORTANT. Insert the four elbow castings on horizontal ladder top first; slide on until they rest against the back of the castings.

STEP 2: Lay horizontal ladder on ground with socket upward.

STEP 3: Position vertical ladders (2) in fittings. Tighten set screws.

STEP 4: Using assembled ladder as a

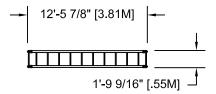
template, mark hole locations.

STEP 5: Dig required holes and place a concrete slab, brick or stone, etc., in bottom of each to provide a solid foundation for each leg.

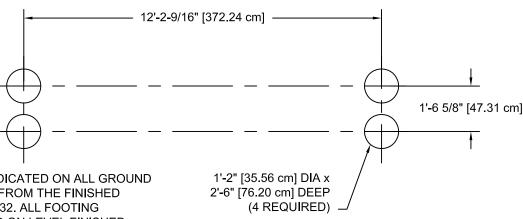
STEP 6: Place assembled climber in holes. Level, be sure each leg is on the foundation blocks.

STEP 7: Pour concrete to match Detail 032. Allow concrete 72 hours to harden before using climber.

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



TOP VIEW



GROUND PLAN

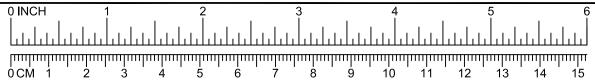
NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

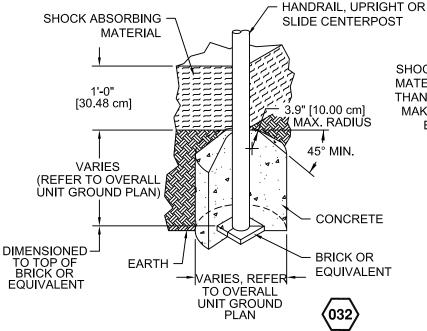
DETAILS -for-53

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.





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.

NOTES:

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