APPENDICES

1. APPENDIX A - PLAY EQUIPMENT
2. APPENDIX B - SHADE STRUCTURE
3. APPENDIX C - RUBE GOLDBERG GOAL
4. APPENDIX D - ENBANKMENT SLIDE
5. APPENDIX E - PICNIC TABLE

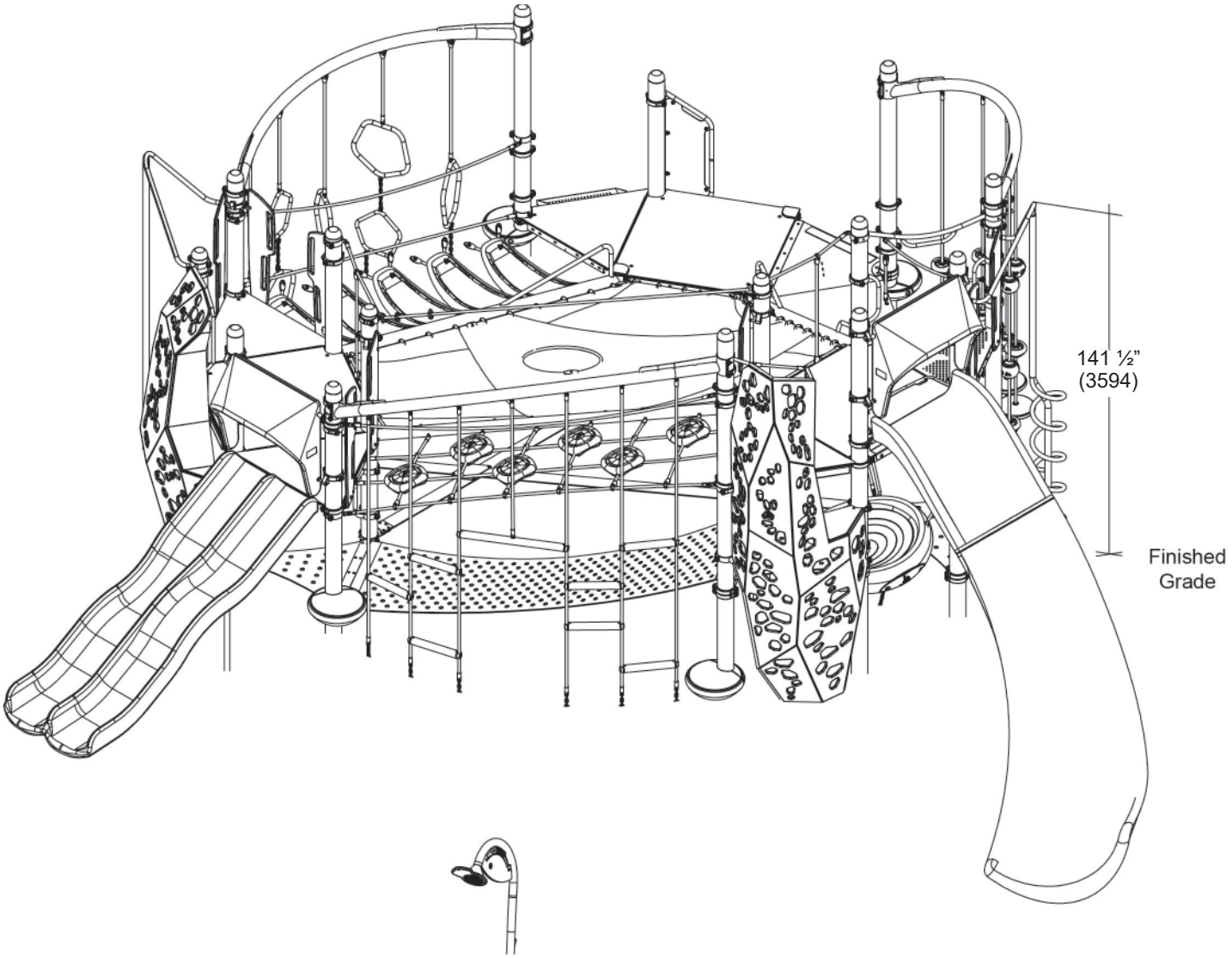
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SAFETY NOTE

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.)



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323659 Volo™

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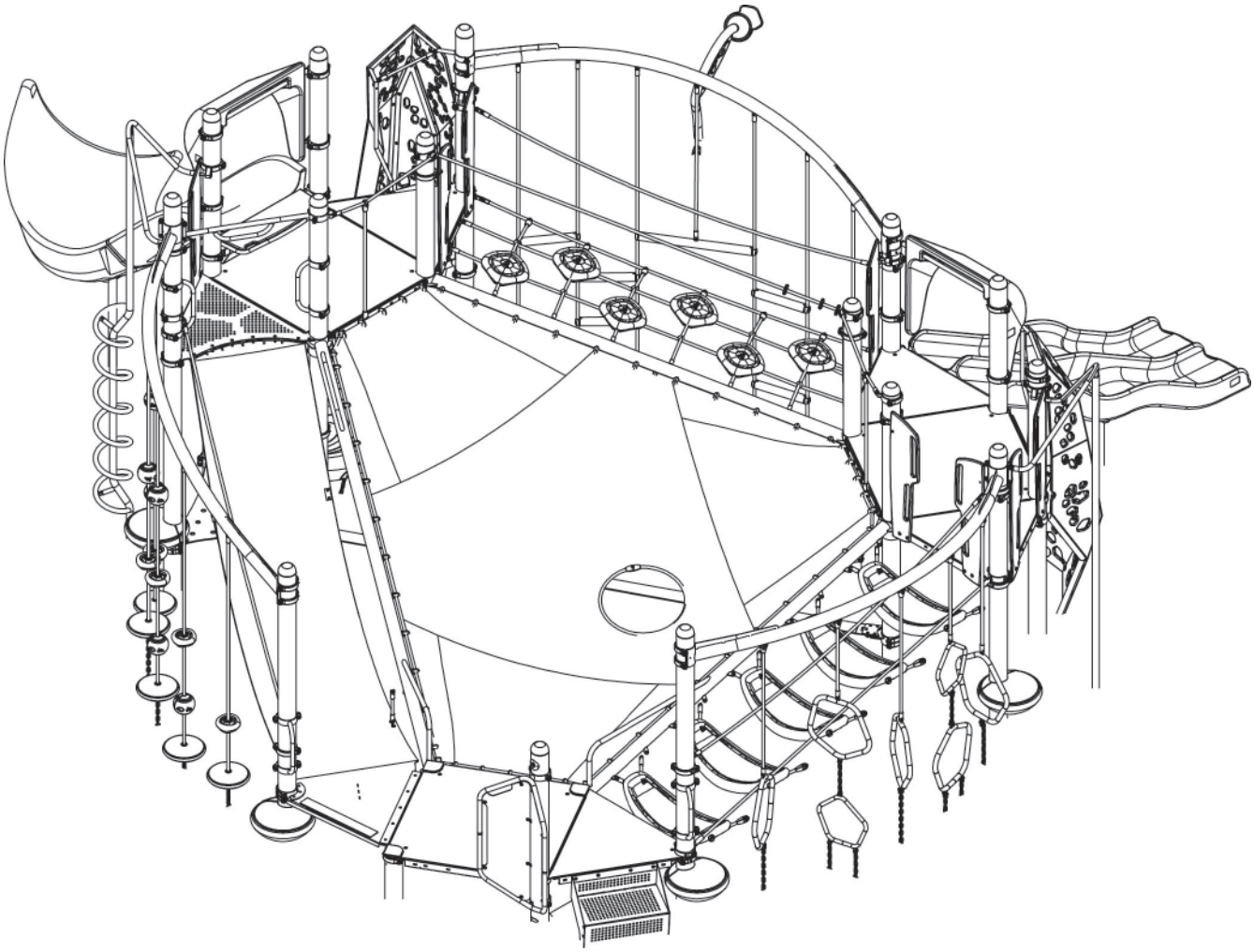
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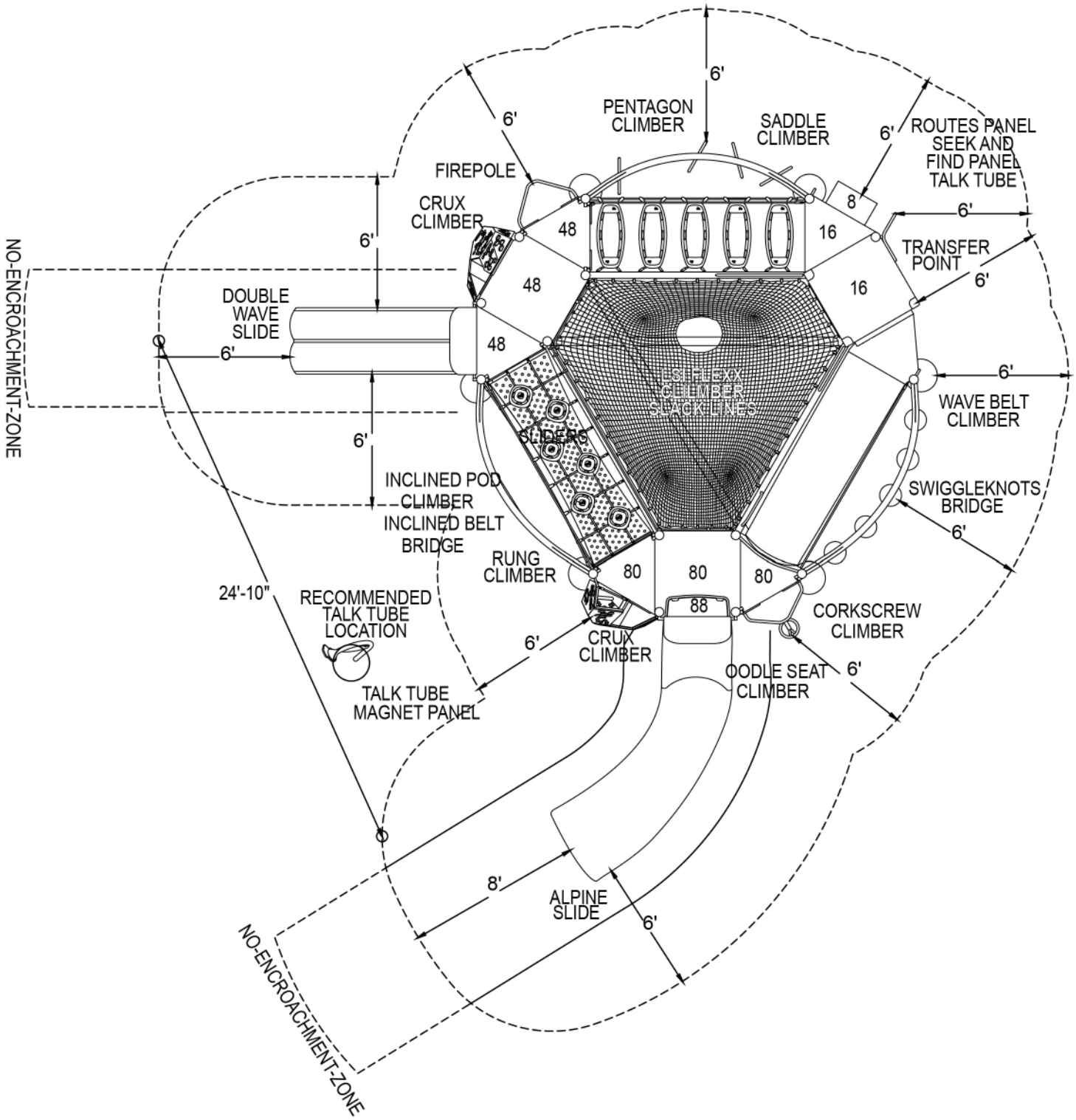
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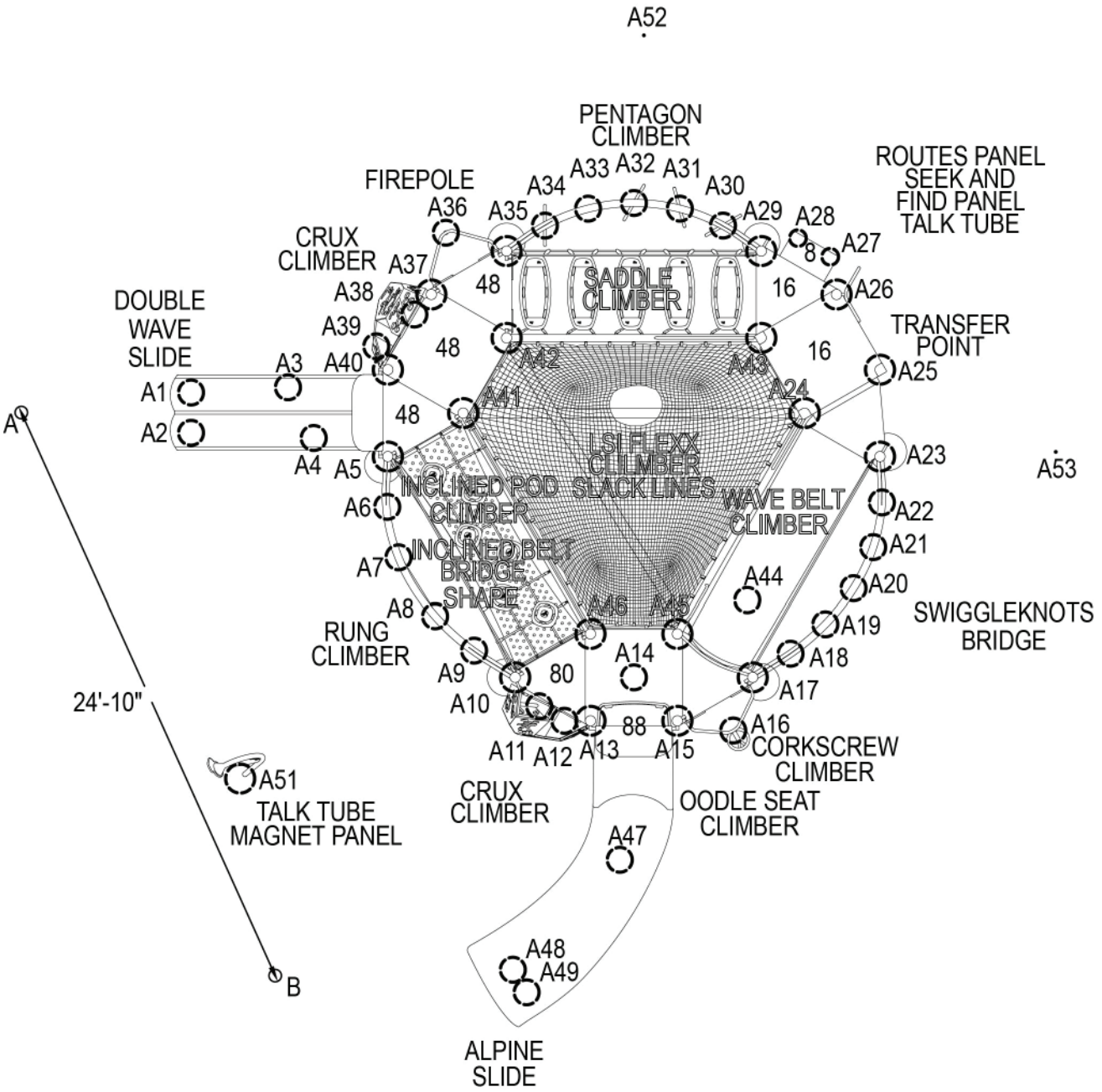
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N.	I.D.	A (ft-in)	B (ft-in)	DIA (in)
1	A1	6'-10 1/2"	23'-8 1/2"	12
2	A2	6'-10 1/2"	22'-1 1/2"	12
3	A3	10'-9 1/2"	23'-8 1/2"	12
4	A4	11'-10"	21'-8 1/2"	12
5	A5	14'-10 1/2"	21'-4 1/2"	14
6	A6	15'-2 1/2"	19'-5"	12
7	A7	16'-3"	17'-6 1/2"	12
8	A8	18'-7"	15'-10"	12
9	A9	20'-7"	15'-4"	12
10	A10	22'-6 1/2"	15'-5"	14
11	A11	23'-11 1/2"	15'-2 1/2"	12
12	A12	25'-1 1/2"	15'-6 1/2"	12
13	A13	26'-0 1/2"	16'-4"	14
14	A14	26'-10 1/2"	18'-9 1/2"	12
15	A15	29'-2"	19'-2"	14
16	A16	31'-4 1/2"	20'-11"	12
17	A17	31'-3 1/2"	22'-8"	14
18	A18	32'-5 1/2"	24'-5 1/2"	12
19	A19	33'-5 1/2"	26'-3 1/2"	12
20	A20	34'-3"	28'	12
21	A21	34'-8 1/2"	29'-7 1/2"	12
22	A22	34'-10"	30'-11 1/2"	12
23	A23	34'-7 1/2"	32'-1"	14
24	A24	31'-6 1/2"	31'-1"	14
25	A25	34'-7 1/2"	34'-5 1/2"	14
26	A26	33'-2"	35'-6 1/2"	14
27	A27	33'-2"	36'-7"	8
28	A28	32'-0 1/2"	36'-5"	8
29	A29	30'-6"	35'-1 1/2"	14
30	A30	29'-3"	35'-2"	12
31	A31	27'-9"	34'-11"	12
32	A32	26'-1"	34'-3 1/2"	12
33	A33	24'-3"	33'-4"	12
34	A34	22'-4 1/2"	32'-1"	12
35	A35	20'-7"	30'-7 1/2"	14
36	A36	18'-6 1/2"	30'-8 1/2"	12
37	A37	17'-2"	28'-1 1/2"	14
38	A38	16'-3 1/2"	27'-2 1/2"	12
39	A39	14'-6 1/2"	25'-8"	12
40	A40	14'-10 1/2"	24'-10"	14
41	A41	17'-9 1/2"	23'-10 1/2"	14
42	A42	19'-9"	27'-4"	14
43	A43	29'-11 1/2"	32'-3 1/2"	14
44	A44	30'-2"	24'-3 1/2"	12
45	A45	27'-10 1/2"	21'-3"	14
46	A46	24'-7"	18'-8 1/2"	14
47	A47	30'-1"	14'-7 1/2"	12
48	A48	29'-11"	9'-7"	12
49	A49	30'-11 1/2"	10'-1 1/2"	12
50	A50	36'-4 1/2"	11'-10"	REF PT
51	A51	17'-2"	8'-1"	14
52	A52	29'-3 1/2"	40'-8"	REF PT
53	A53	41'-8"	37'-10"	REF PT

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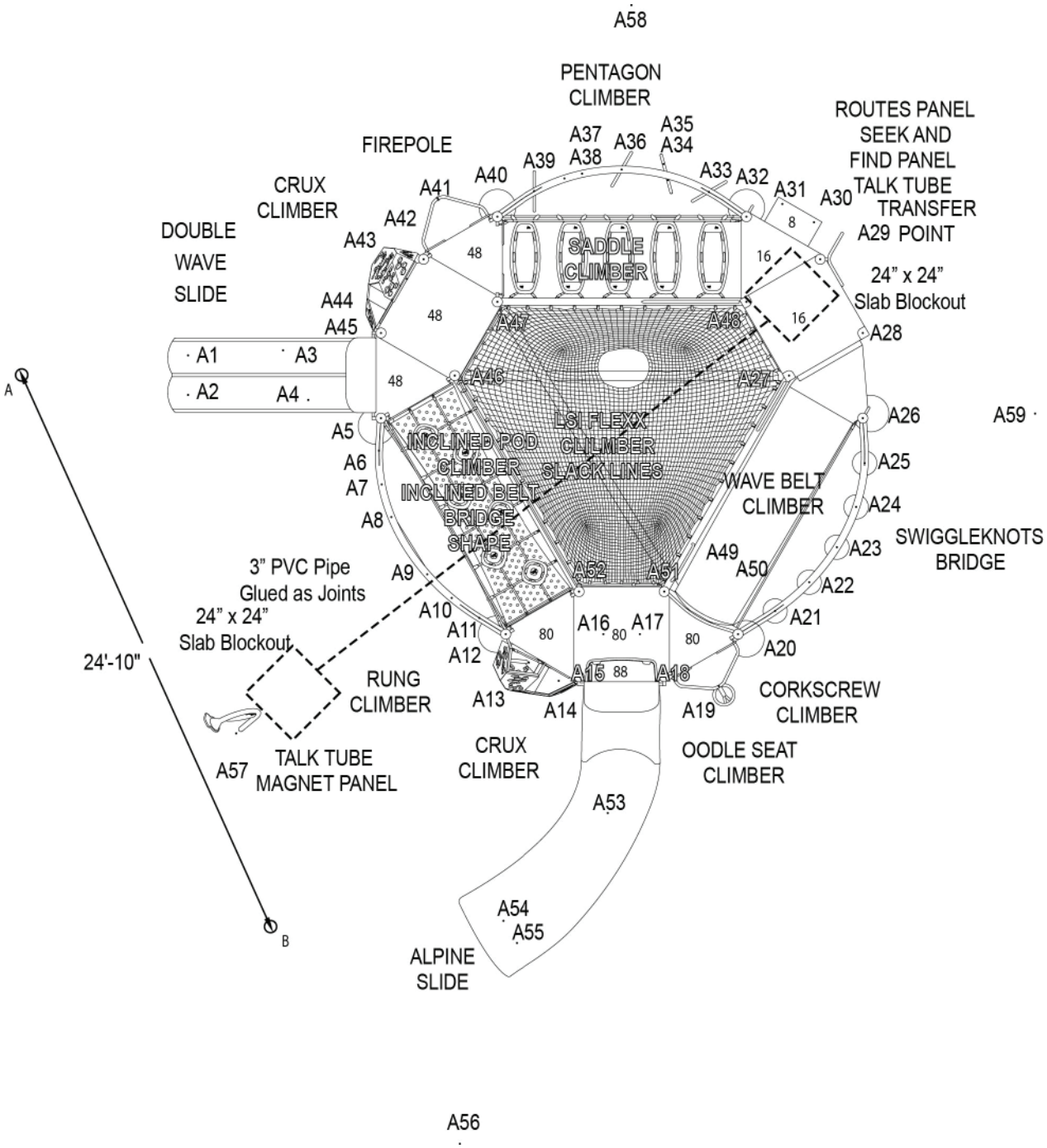
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SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



SURFACE MOUNT

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4	A4	11'-10"	21'-8 1/2"	REF PT
5	A5	14'-10 1/2"	21'-4 1/2"	REF PT
6	A6	15'	20'-0 1/2"	REF PT
7	A7	15'-5 1/2"	18'-9"	REF PT
8	A8	16'-3"	17'-6 1/2"	REF PT
9	A9	18'-7"	15'-10"	REF PT
10	A10	19'-11"	15'-5"	REF PT
11	A11	21'-3 1/2"	15'-4"	REF PT
12	A12	22'-6 1/2"	15'-5"	REF PT
13	A13	23'-11 1/2"	15'-2 1/2"	REF PT
14	A14	25'-5"	15'-7"	REF PT
15	A15	26'-0 1/2"	16'-4"	REF PT
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46	A46	17'-9 1/2"	23'-10 1/2"	REF PT
47	A47	19'-9"	27'-4"	REF PT
48	A48	29'-11 1/2"	32'-3 1/2"	REF PT
49	A49	29'-5 1/2"	23'-9 1/2"	REF PT
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54	A54	29'-11"	9'-7"	REF PT
55	A55	30'-11 1/2"	10'-1 1/2"	REF PT
56	A56	36'-4 1/2"	11'-10"	REF PT
57	A57	17'-2"	8'-1"	REF PT
58	A58	29'-3 1/2"	40'-8"	REF PT
59	A59	41'-8"	37'-10"	REF PT

SURFACE MOUNT

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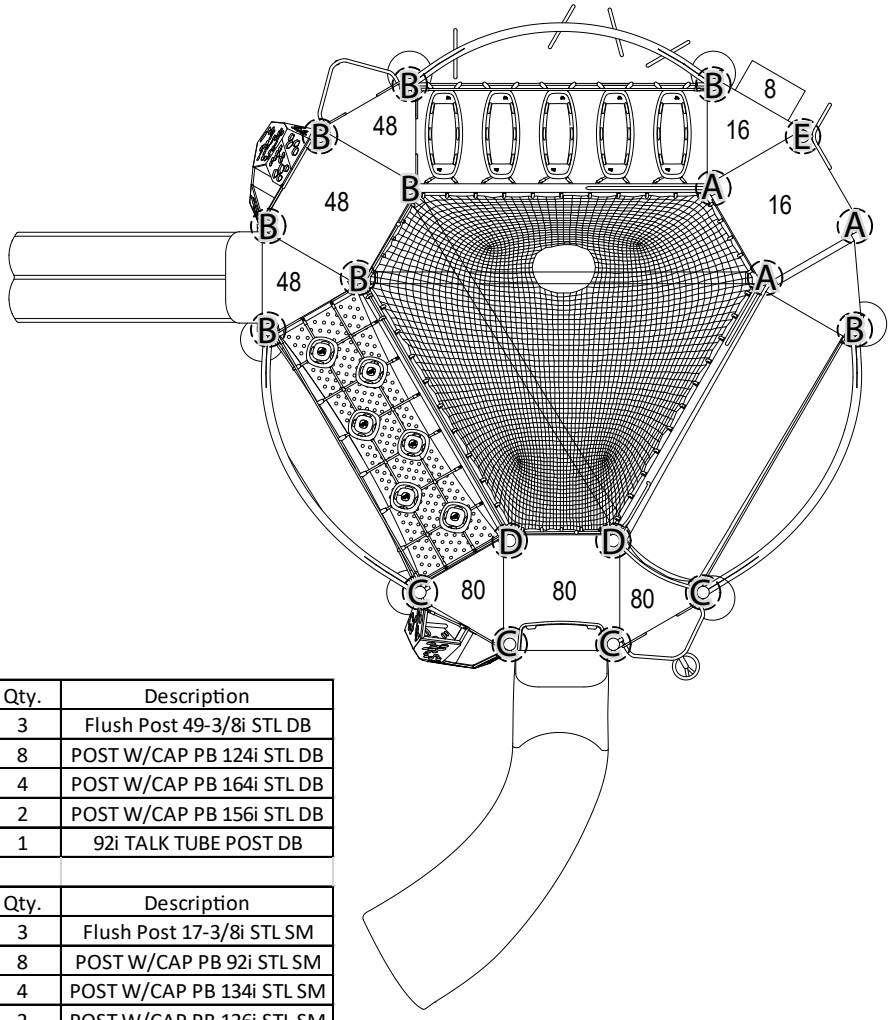
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Location	Part#	Qty.	Description
A	107492	3	Flush Post 49-3/8i STL DB
B	107525	8	POST W/CAP PB 124i STL DB
C	124091	4	POST W/CAP PB 164i STL DB
D	142125	2	POST W/CAP PB 156i STL DB
E	329920	1	92i TALK TUBE POST DB

Location	Part#	Qty.	Description
A	107447	3	Flush Post 17-3/8i STL SM
B	107472	8	POST W/CAP PB 92i STL SM
C	112369	4	POST W/CAP PB 134i STL SM
D	107484	2	POST W/CAP PB 126i STL SM
E	326166	1	60i TALK TUBE POST SM

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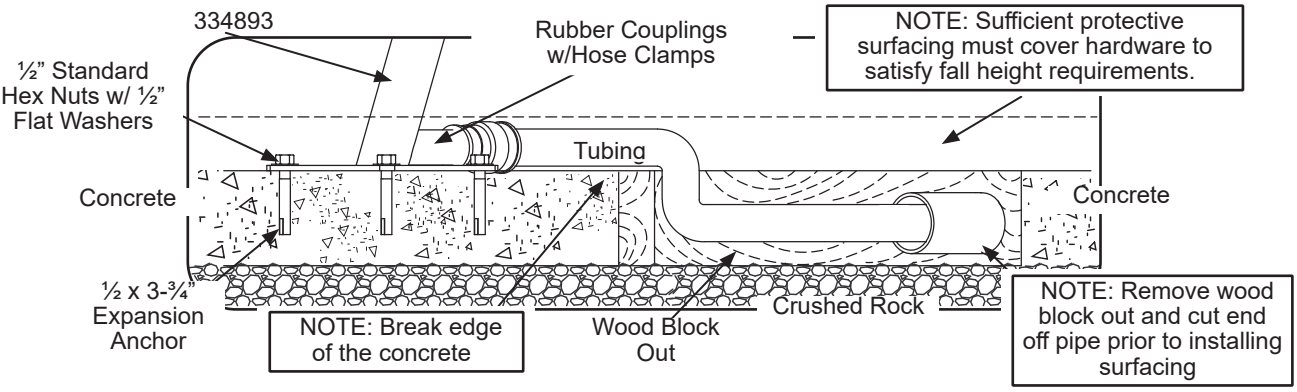
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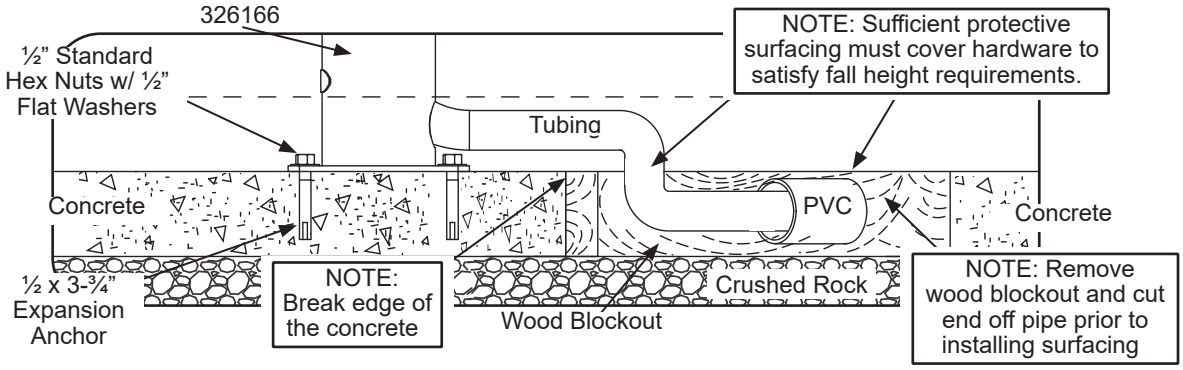
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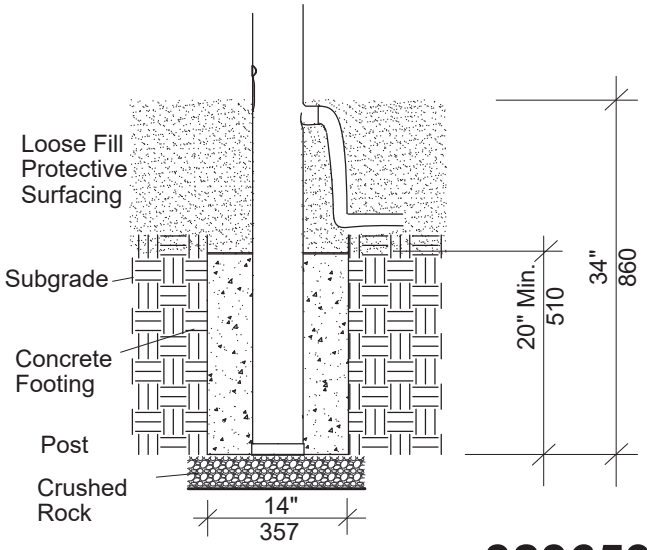
DETAIL
TALK TUBE SIGN SM



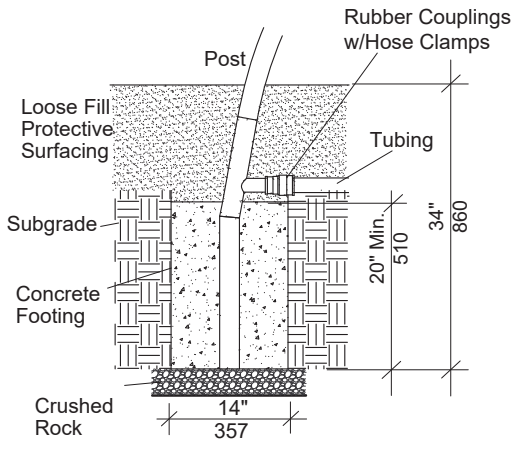
DETAIL
TALK TUBE POST SM



DETAIL
DIRECT BURY
TALK TUBE POST



DETAIL
DIRECT BURY
TALK TUBE SIGN



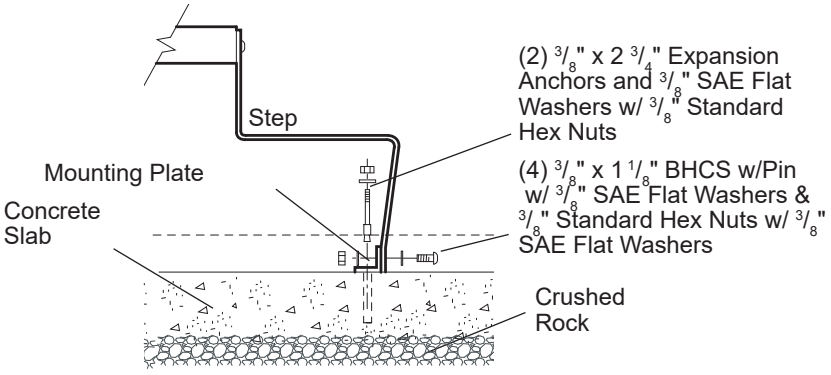
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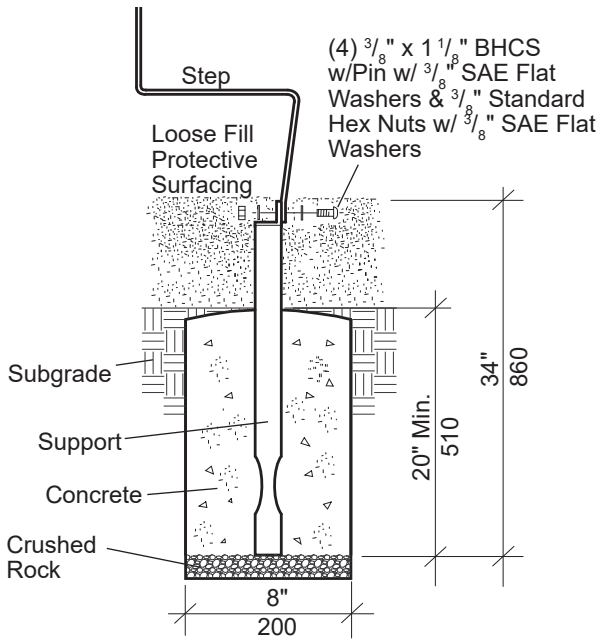
TRANSFER STEP

SURFACE MOUNT 2"

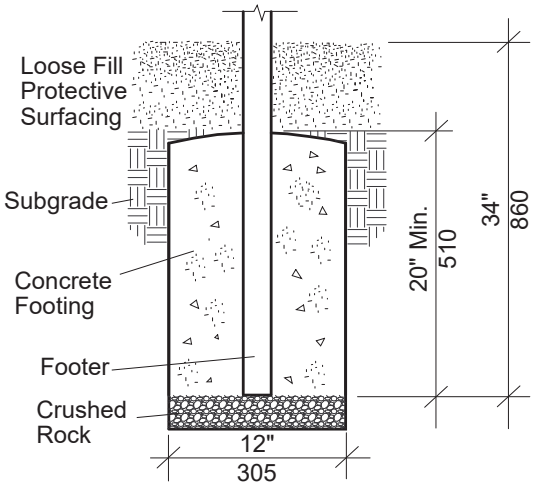


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

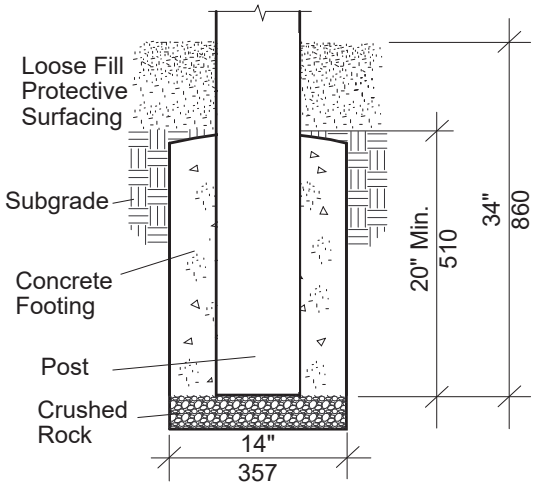
DIRECT BURY



DETAIL
DIRECT BURY



DETAIL
DIRECT BURY



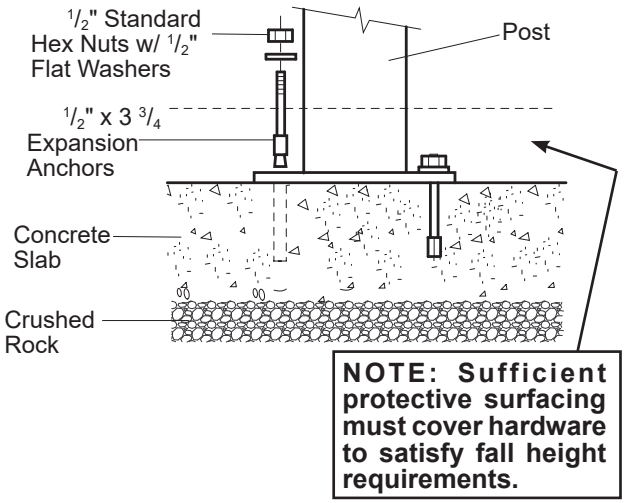
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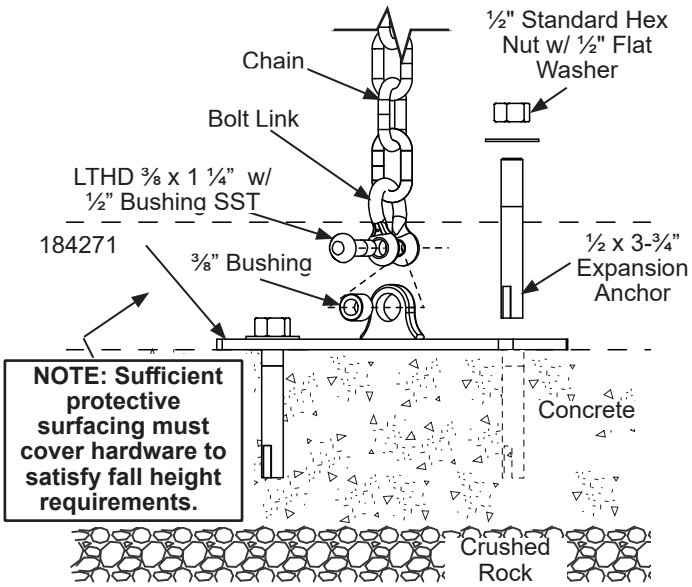
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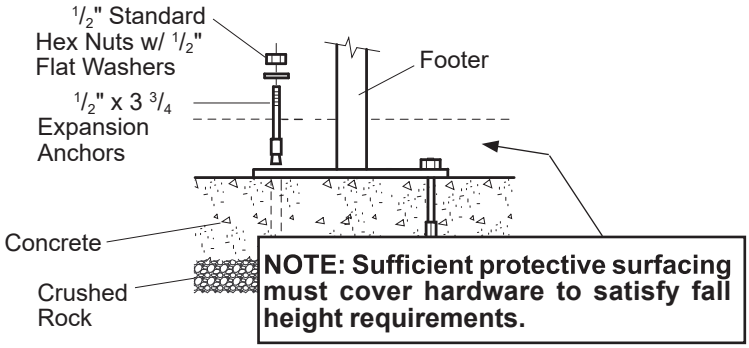
DETAIL
SURFACE MOUNT



DETAIL
SURFACE MOUNT
CHAIN CONN.



DETAIL
SURFACE MOUNT

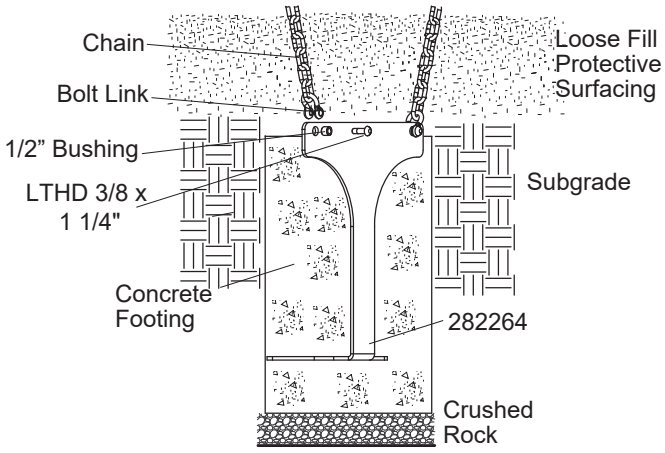


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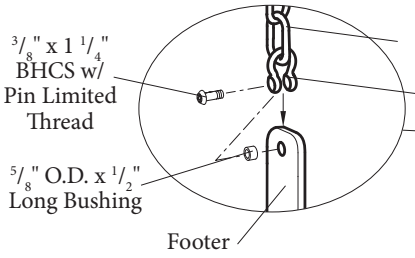
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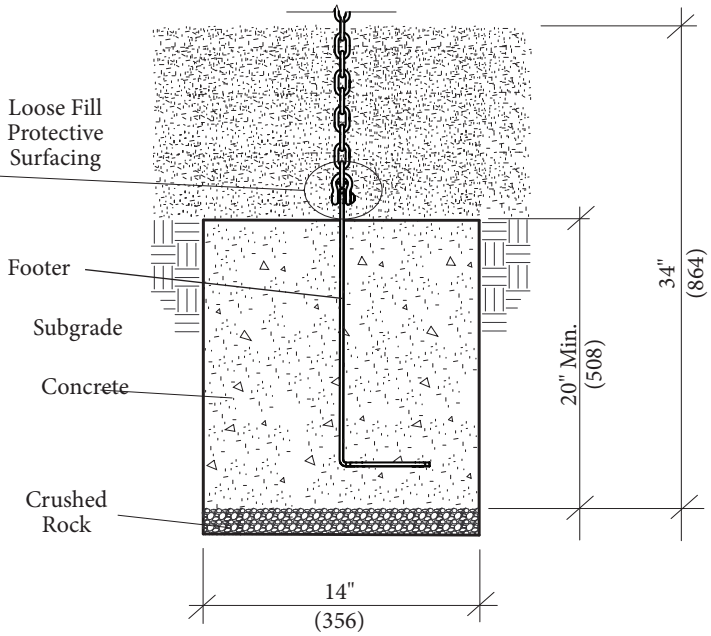
DETAIL
DOUBLE CHAIN FOOTER
DIRECT BURY



DETAIL
PLATE FOOTER
ATTACHMENT



DETAIL
SINGLE CHAIN FOOTER
DIRECT BURY



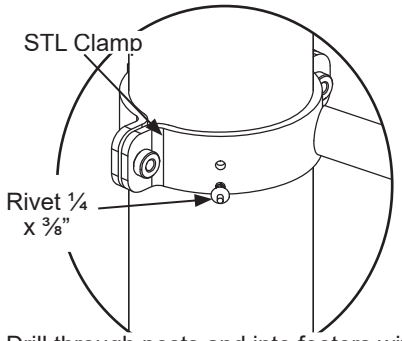
IMPORTANT! Tension ropes/nets before pouring concrete footings.

NOTE: The hole depth for the footer needs to be deep enough, so the footer plate does not contact the bottom of the hole. The weight of the concrete will force the footer plate down, further tightening the cable.

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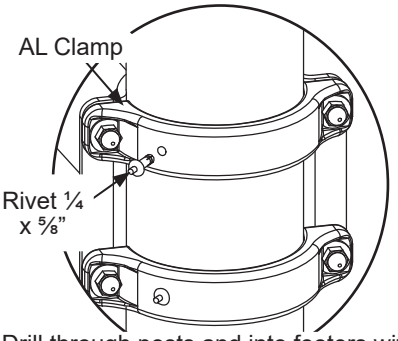
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DETAIL
STL CLAMP REG. POST



Drill through posts and into footers with a ¼” or “F” (only) drill bit, insert drive rivet in hole through posts and into footers. Hammer drive rivet pin in until flush with head.

DETAIL
AL CLAMP REG. POST

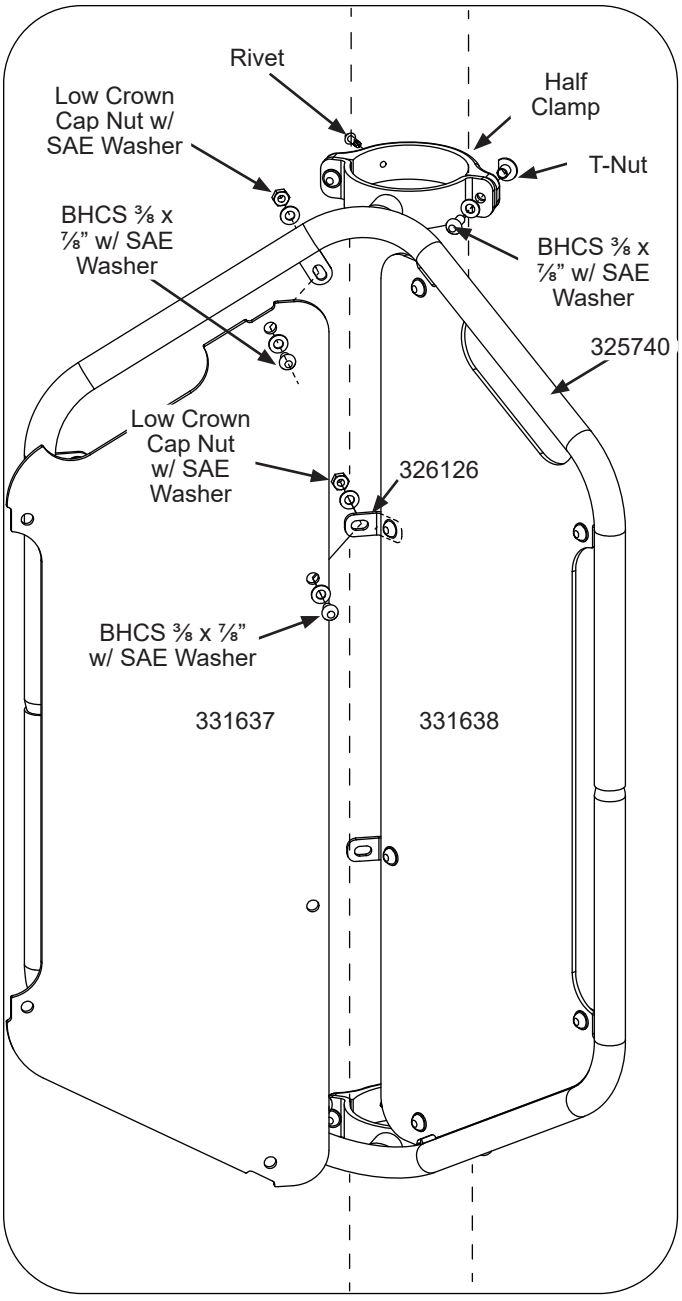


Drill through posts and into footers with a ¼” or “F” (only) drill bit, insert drive rivet in hole through posts and into footers. Hammer drive rivet pin in until flush with head.

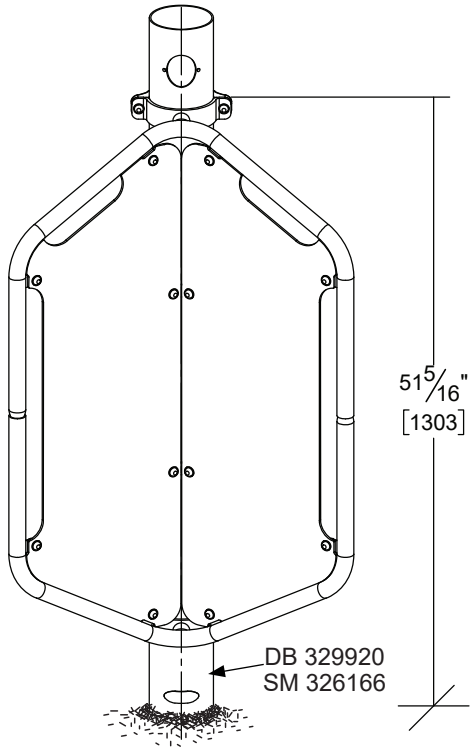
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SEEK AND FIND PANEL
TALK TUBE

DETAIL
TALK BARRIER



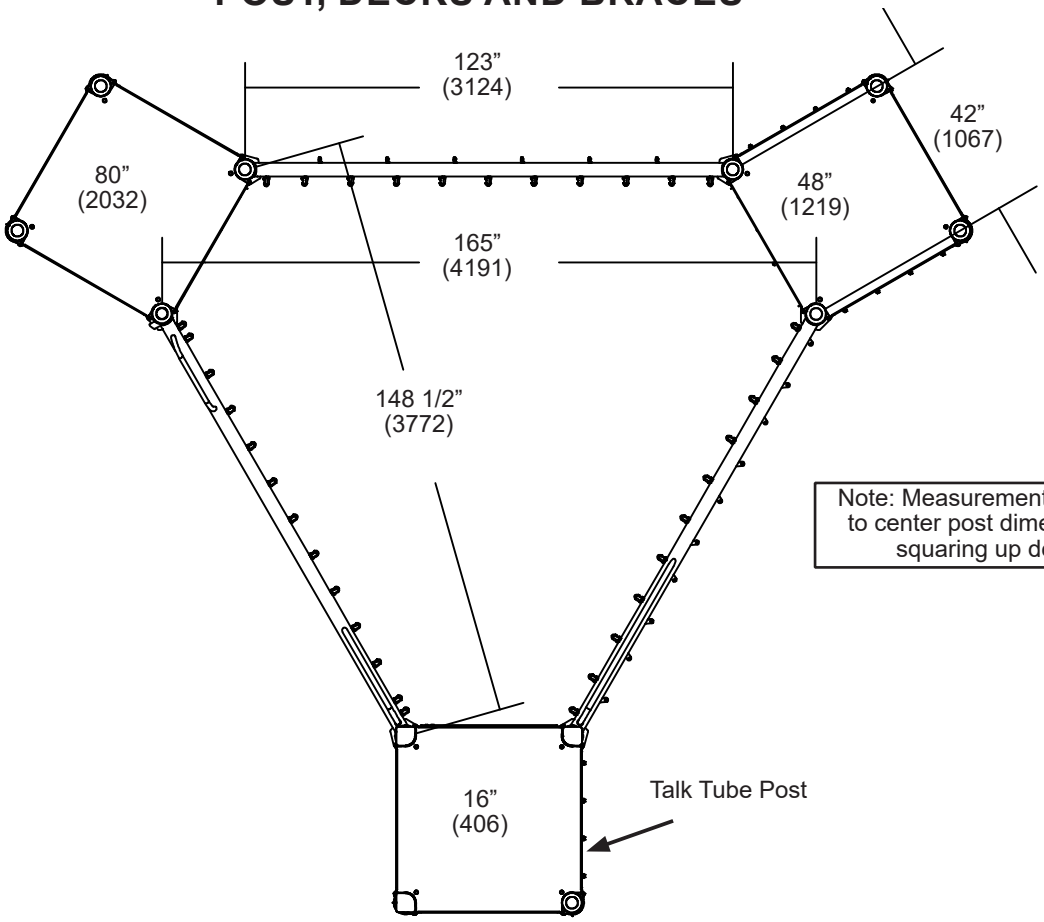
Note: The hole in the post must be centered with the barrier



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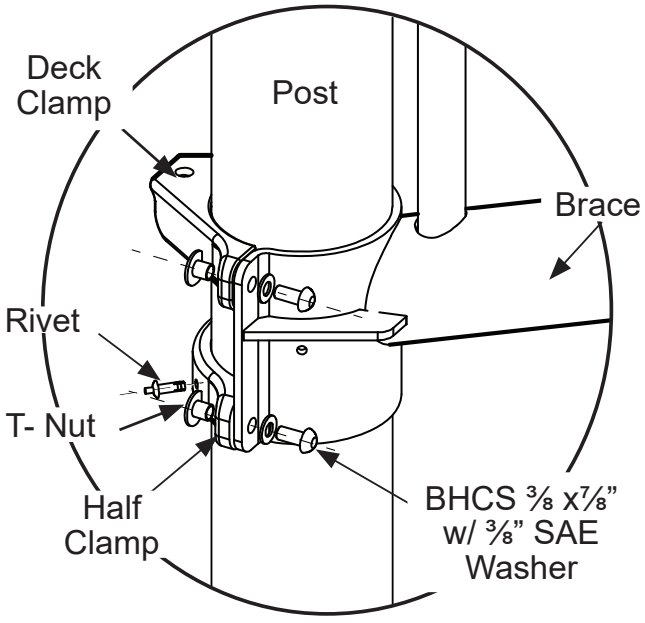
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POST, DECKS AND BRACES

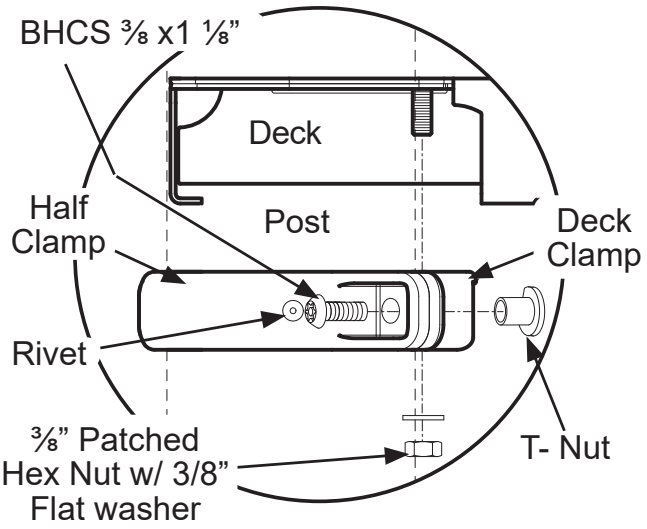


Note: Measurements are center to center post dimensions for squaring up decks.

DETAIL DECK/BRACE



DETAIL DECK HANGER CLAMP

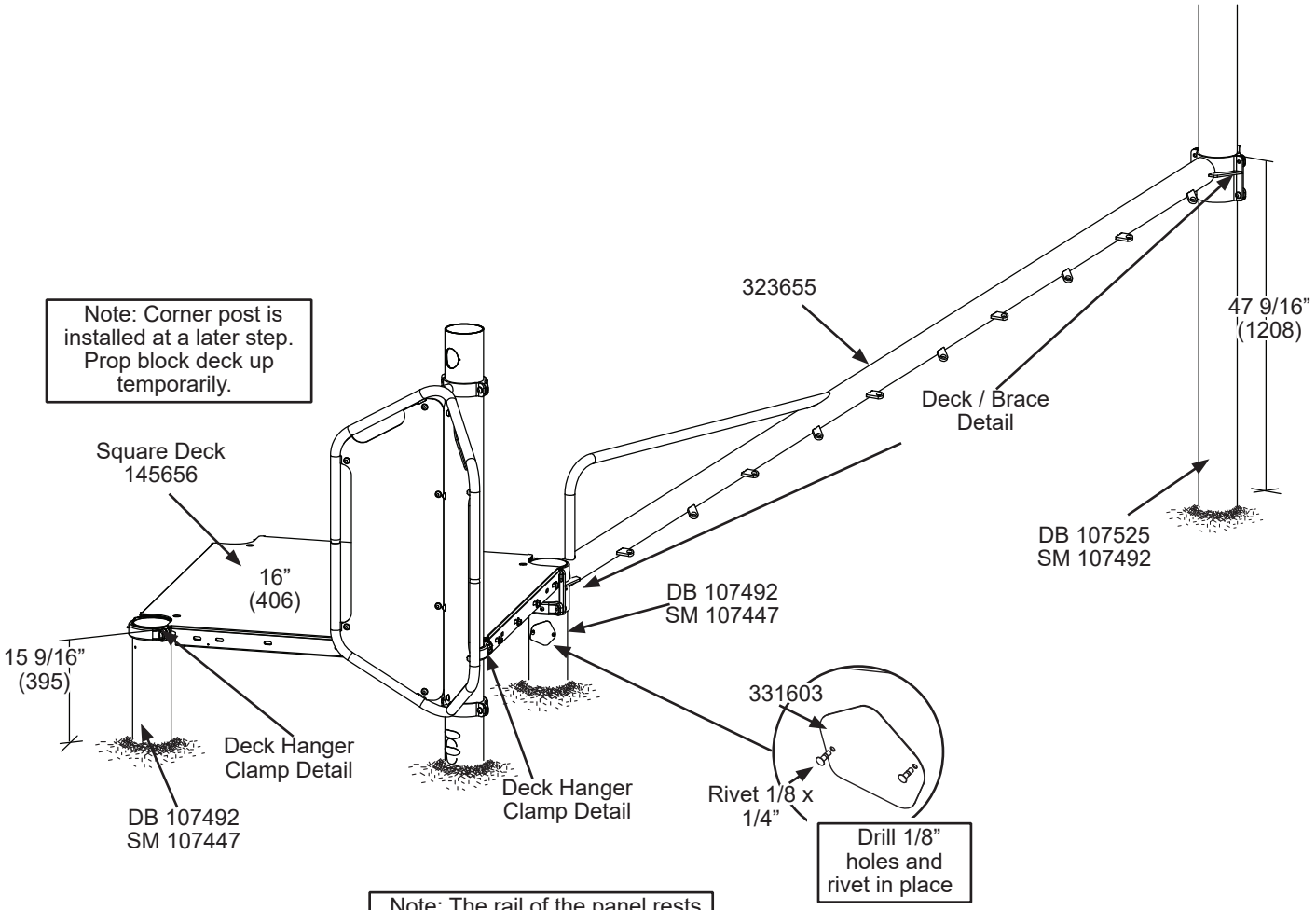


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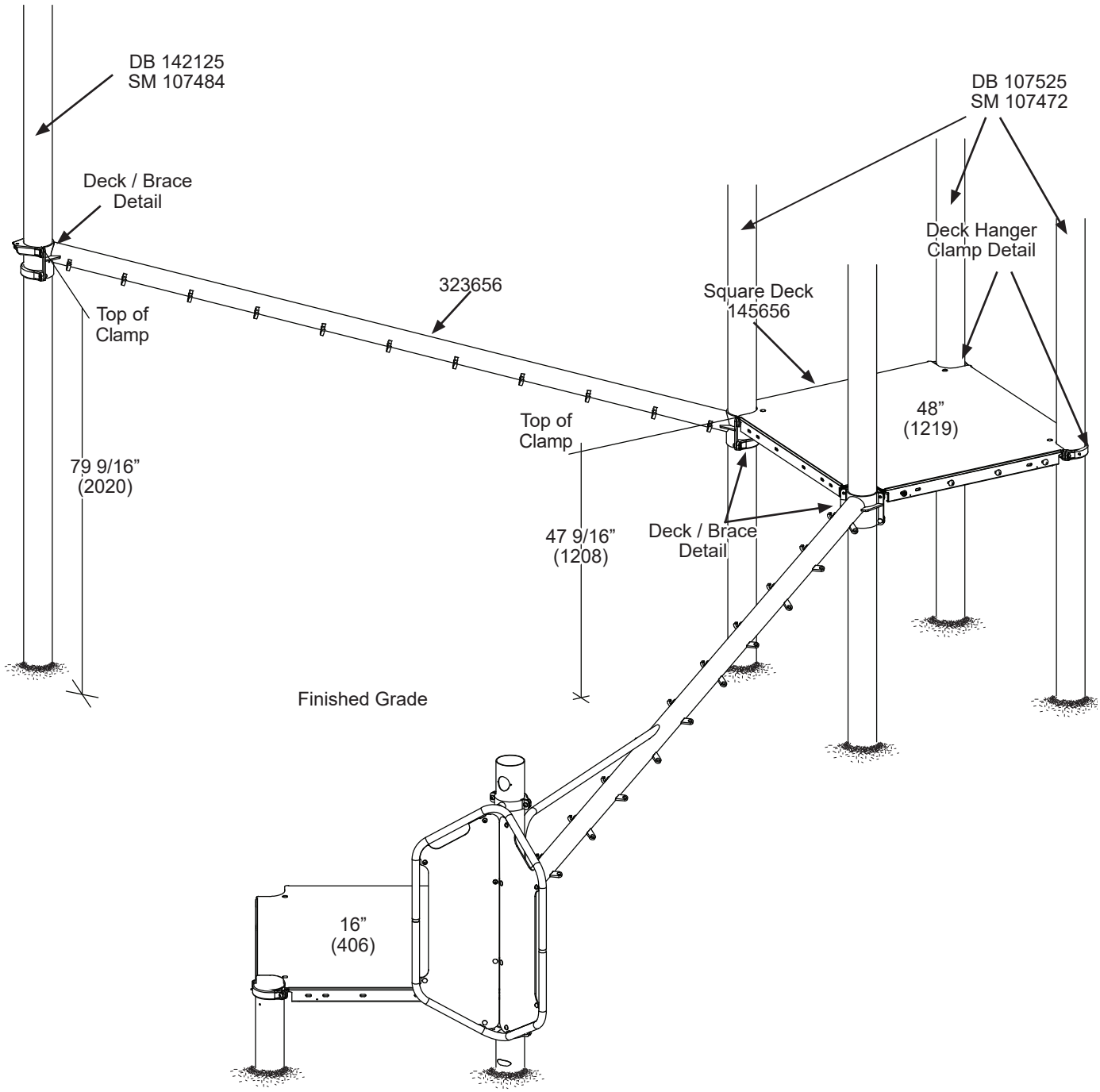
POST, DECKS AND BRACES



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POST, DECKS AND BRACES



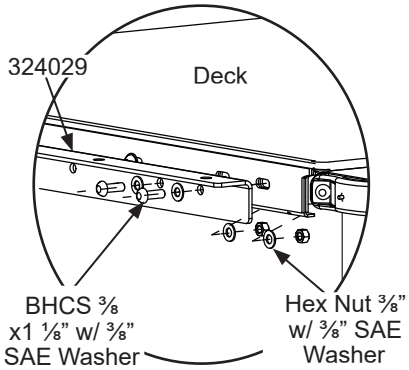
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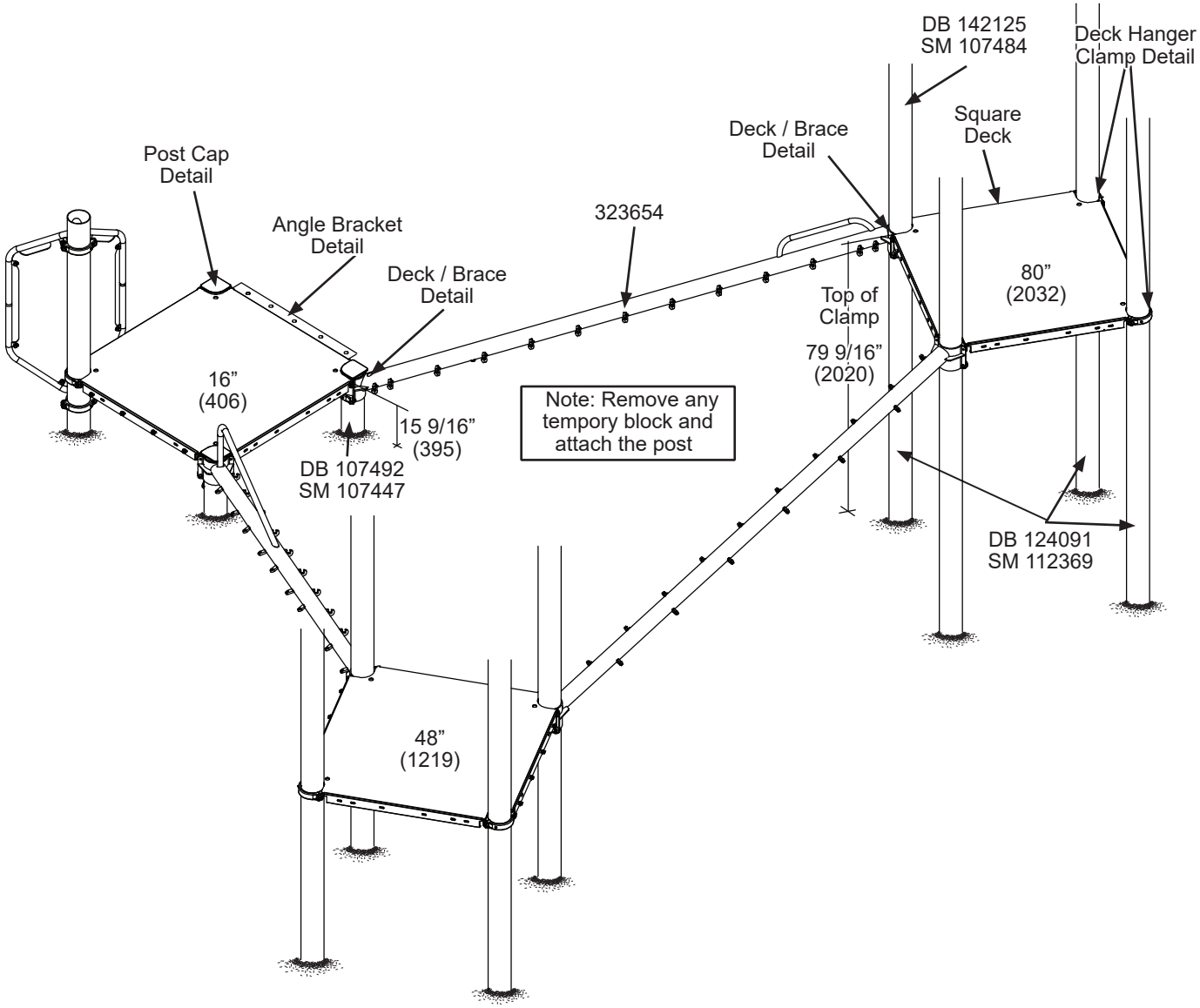
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POST, DECKS AND BRACES

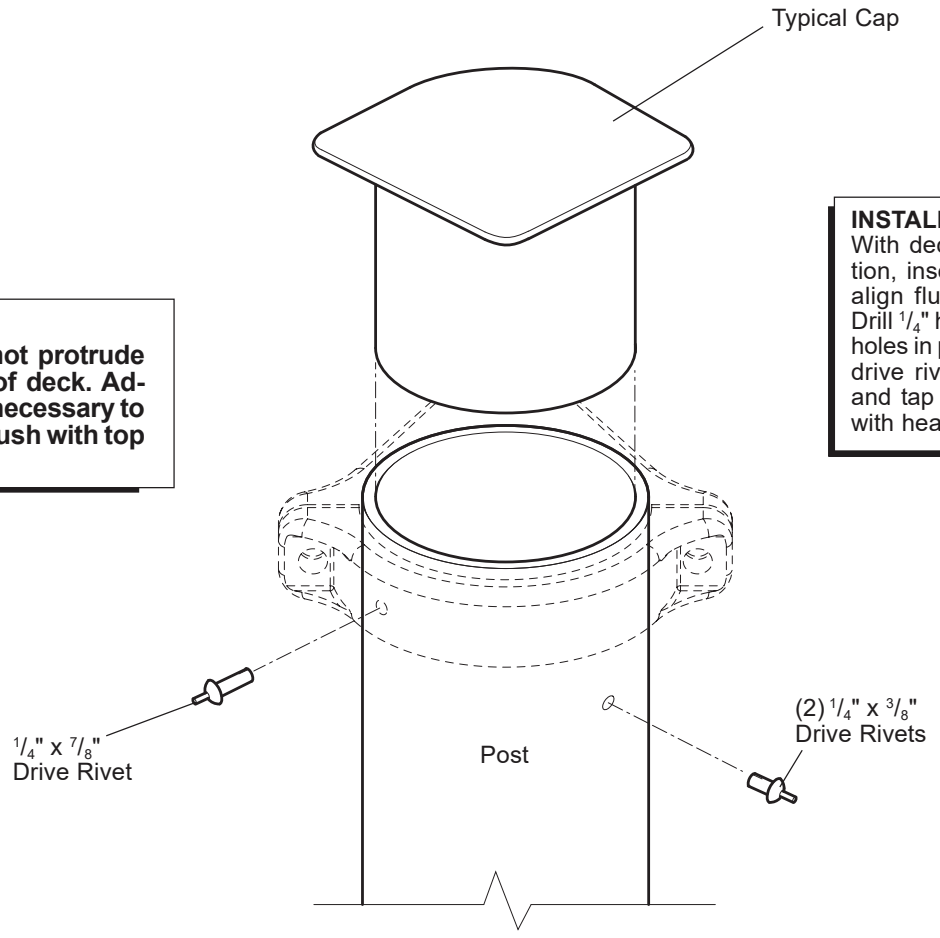
DETAIL ANGLE BRACKET





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POST, DECKS AND BRACES

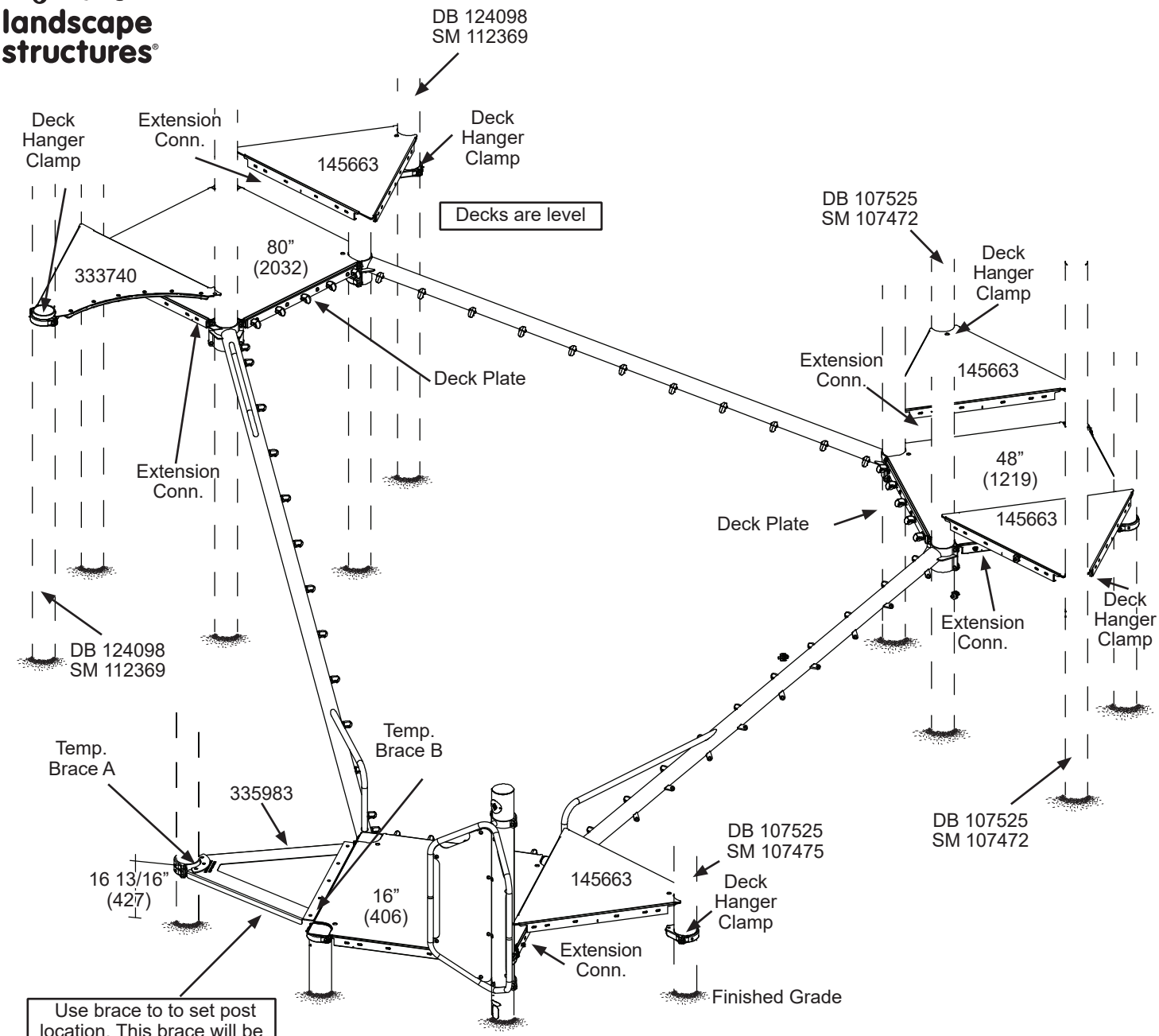


NOTE:
Cap must not protrude above top of deck. Adjust post if necessary to make cap flush with top of deck.

INSTALLATION:
With deck and posts in position, insert cap into post and align flush with top of deck. Drill 1/4" holes into cap through holes in post and clamp. Insert drive rivets into drilled holes and tap pin in until it is flush with head.

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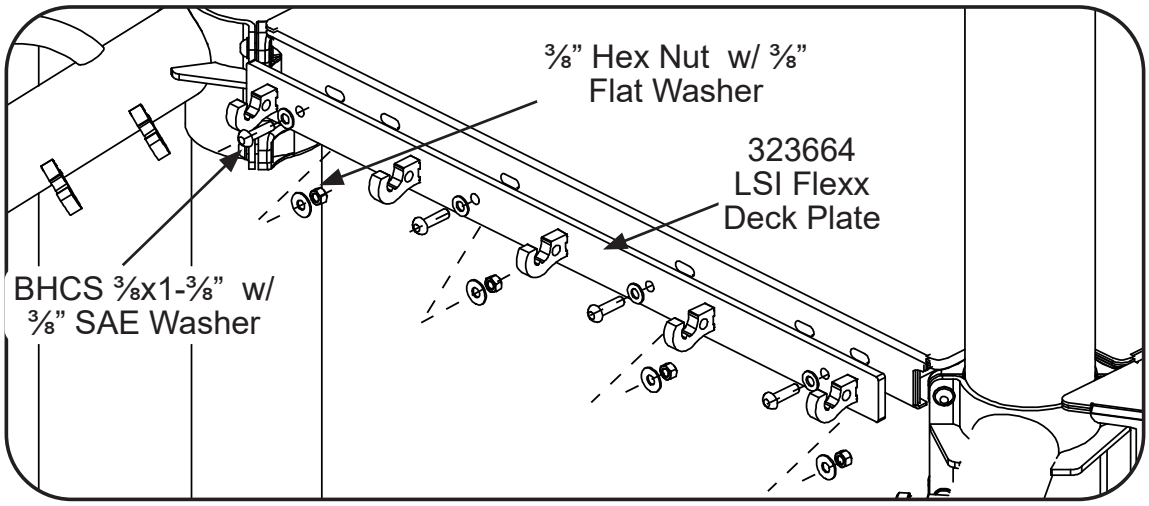
POST, DECKS AND BRACES



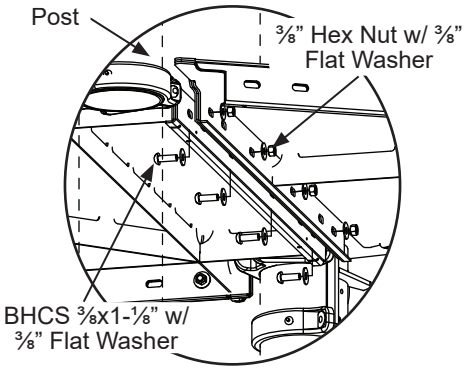
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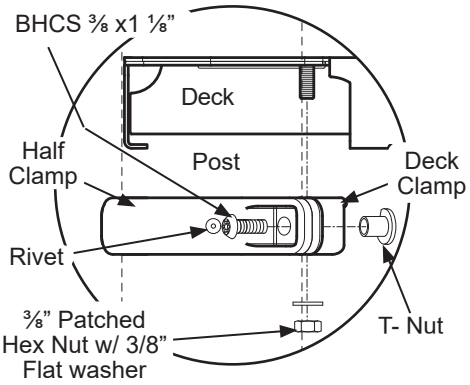
DETAIL
DECK PLATE



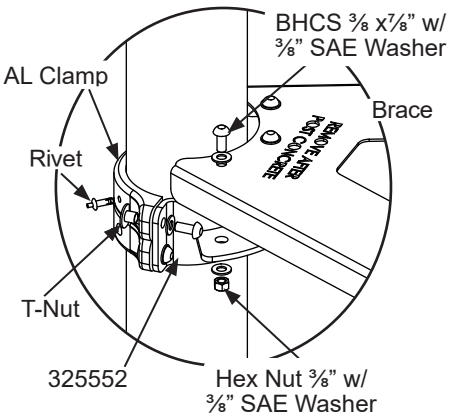
DETAIL
EXTENSION CONN.



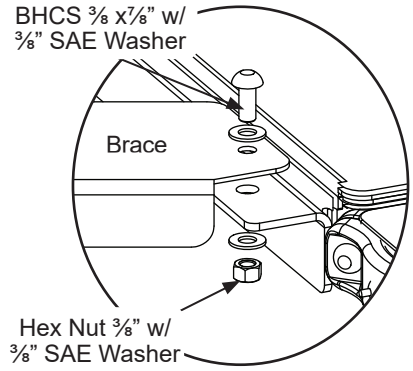
DETAIL
DECK HANGER CLAMP



DETAIL
TEMP. BRACE A

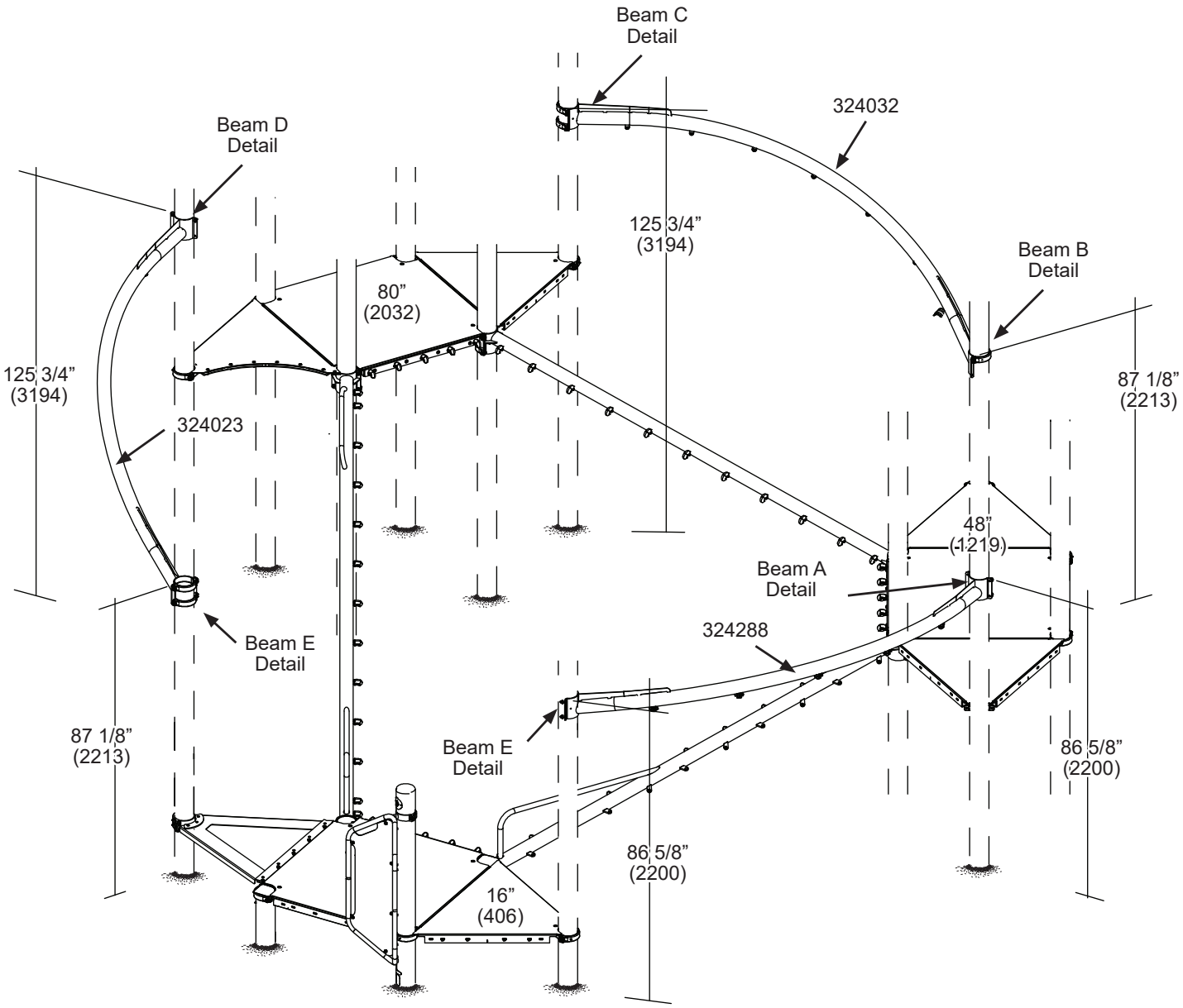


DETAIL B
TEMP. BRACE



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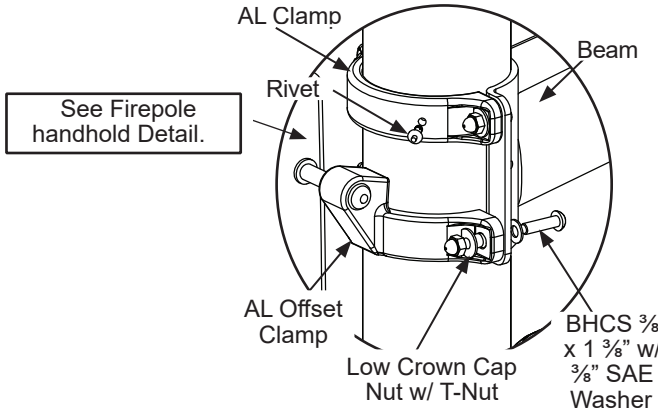
POST, DECKS AND BRACES



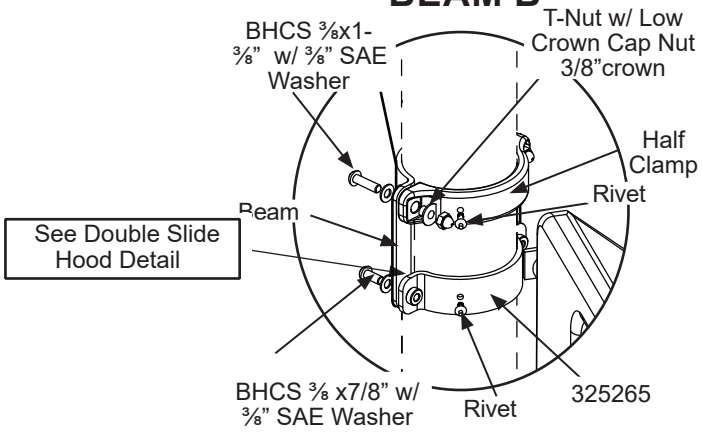
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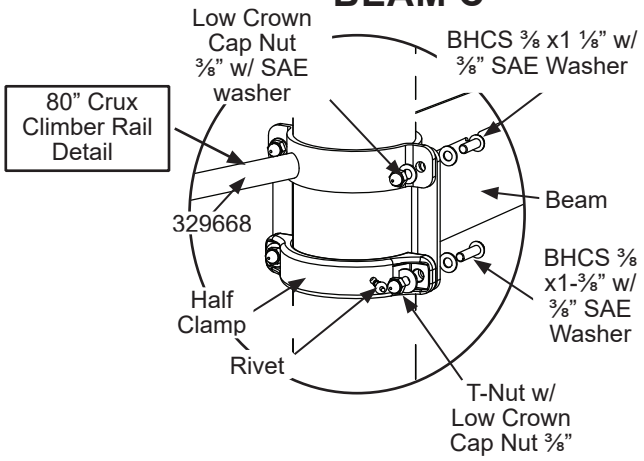
DETAIL BEAM A



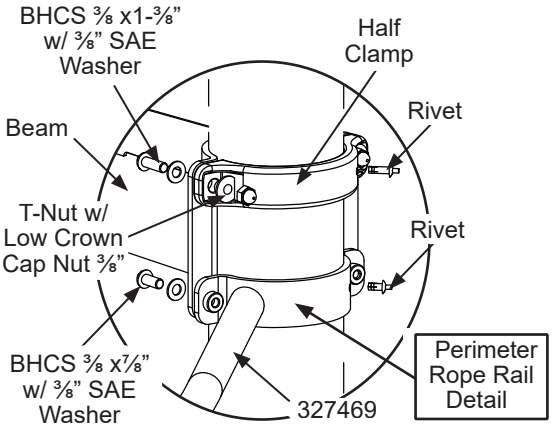
DETAIL BEAM B



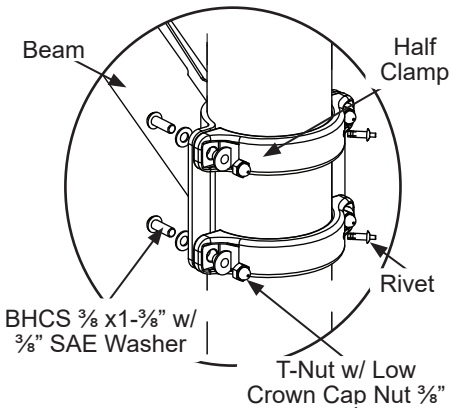
DETAIL BEAM C



DETAIL BEAM D



DETAIL BEAM E



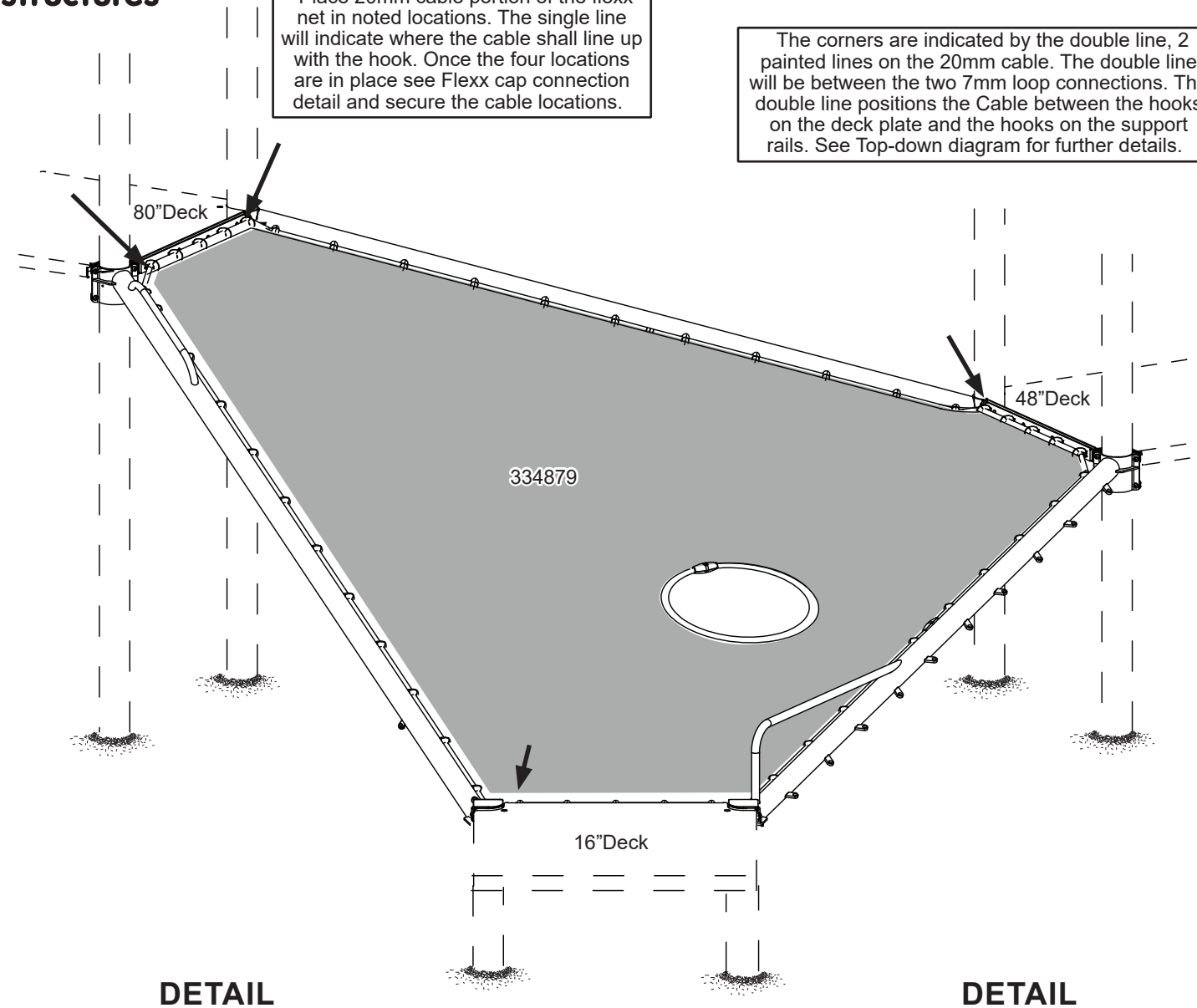
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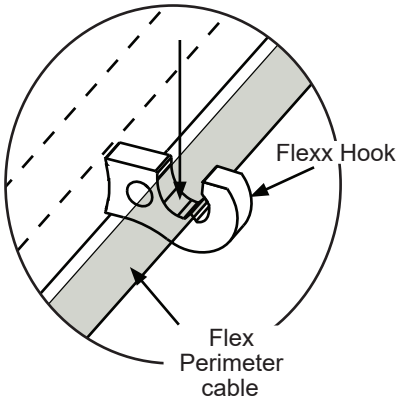
LSI FLEXX CLIMBER

Place 20mm cable portion of the flexx net in noted locations. The single line will indicate where the cable shall line up with the hook. Once the four locations are in place see Flexx cap connection detail and secure the cable locations.

The corners are indicated by the double line, 2 painted lines on the 20mm cable. The double line will be between the two 7mm loop connections. The double line positions the Cable between the hooks on the deck plate and the hooks on the support rails. See Top-down diagram for further details.



DETAIL LOOSE FLEXX CONN.

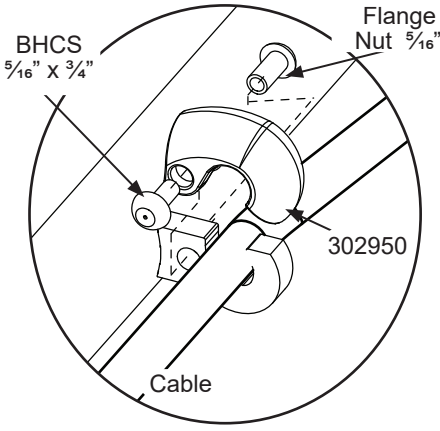


338903



Note: Use Flexx Net Cap Tool to aid in the installation of the Flexx Caps. See Link for flexx installation video

DETAIL FLEXX CAP CONN.



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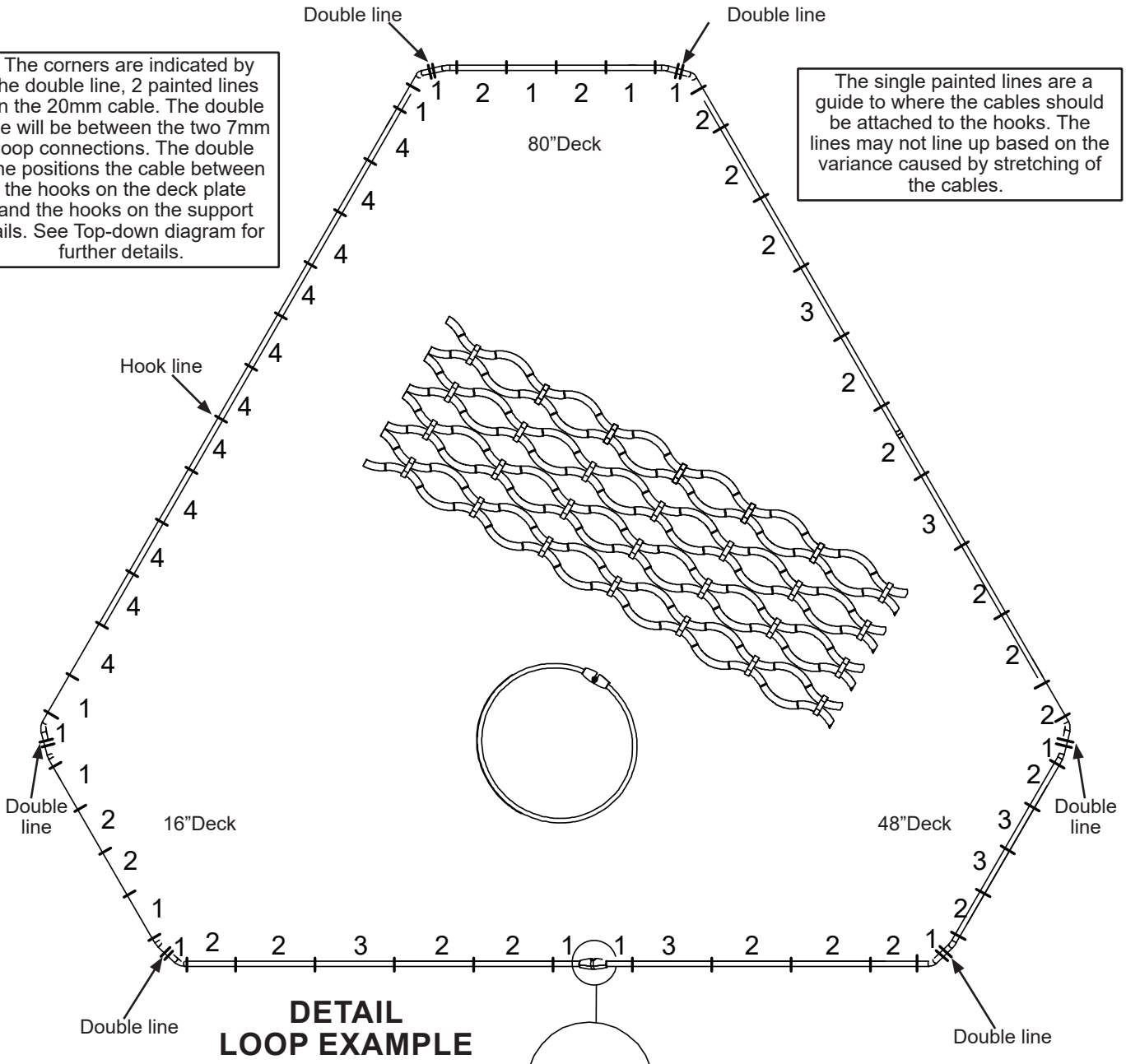
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LSI FLEXX CLIMBER

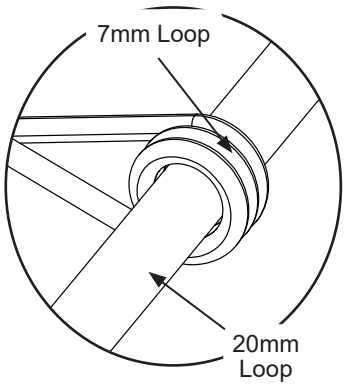
TOP DOWN LAYOUT

The corners are indicated by the double line, 2 painted lines on the 20mm cable. The double line will be between the two 7mm loop connections. The double line positions the cable between the hooks on the deck plate and the hooks on the support rails. See Top-down diagram for further details.

The single painted lines are a guide to where the cables should be attached to the hooks. The lines may not line up based on the variance caused by stretching of the cables.



DETAIL LOOP EXAMPLE

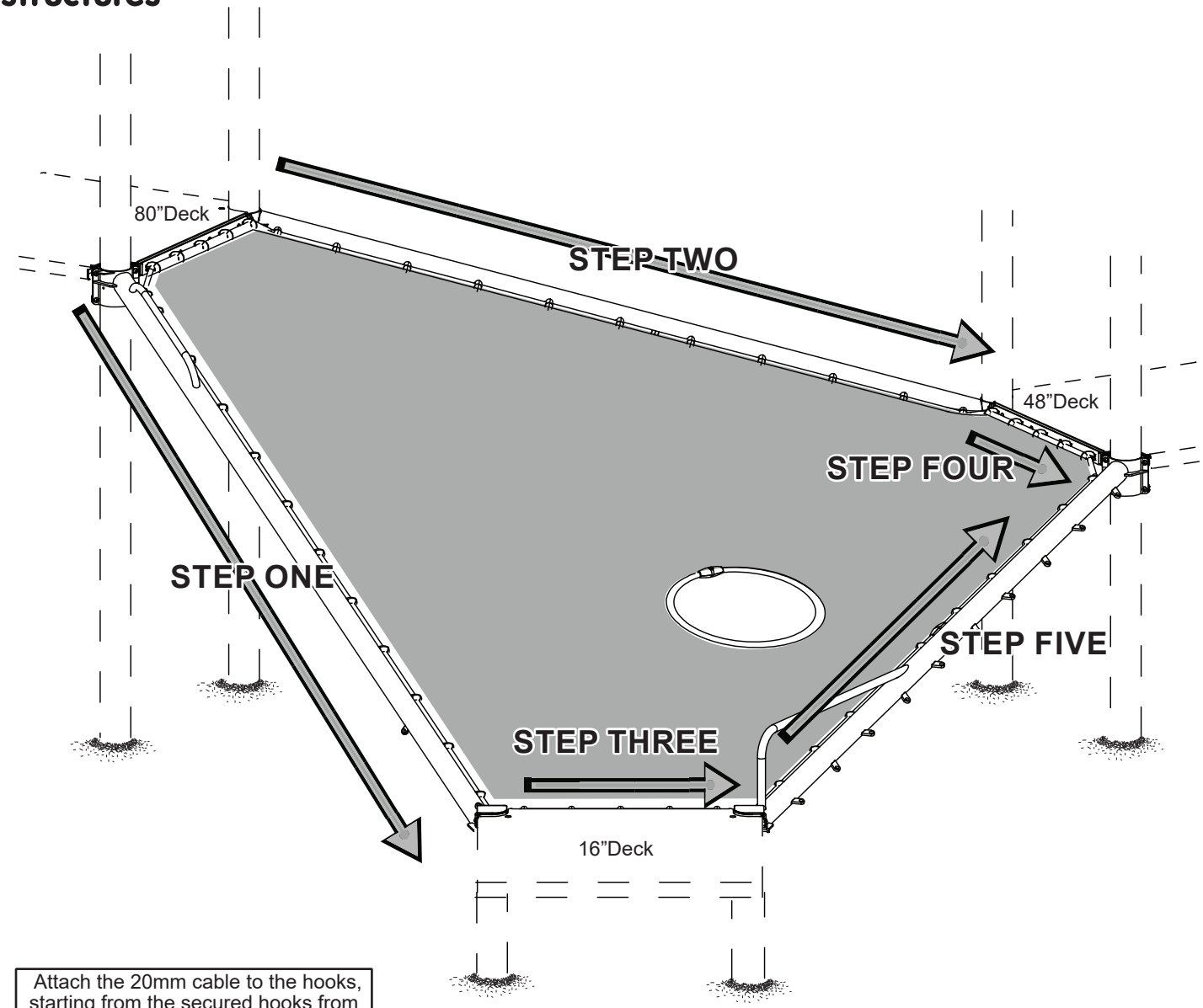


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LSI FLEXX CLIMBER



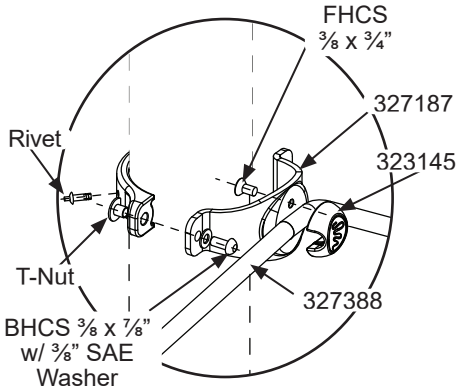
Attach the 20mm cable to the hooks, starting from the secured hooks from the previous step. Loose connect the cable without placing caps. The net may need to be adjusted to get all the hooks on. The use of bar clamps may be necessary. Be sure to protect painted surfaces from clamp marks. Leave Flexx caps off until an initial clamped hook location is reached. Once the step is finished hooks can get the caps installed. Move to the next step and repeat until finished.

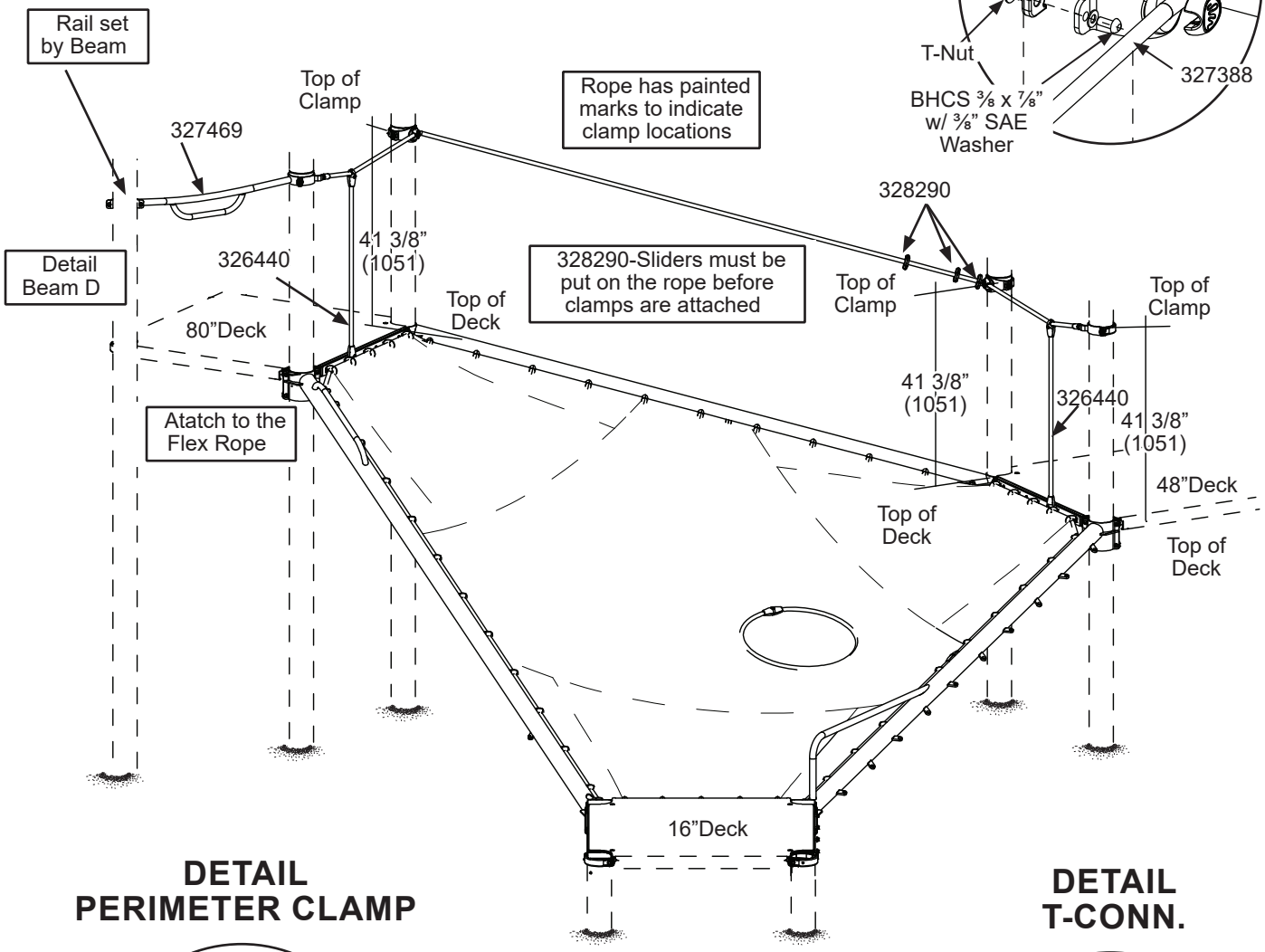
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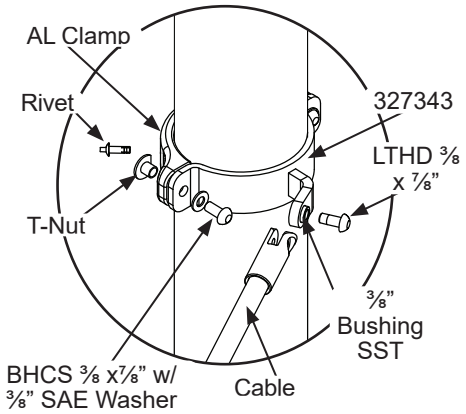
PERIMETER ROPE

DETAIL CAP CLAMP

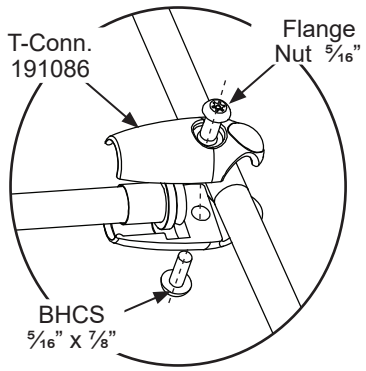




DETAIL PERIMETER CLAMP



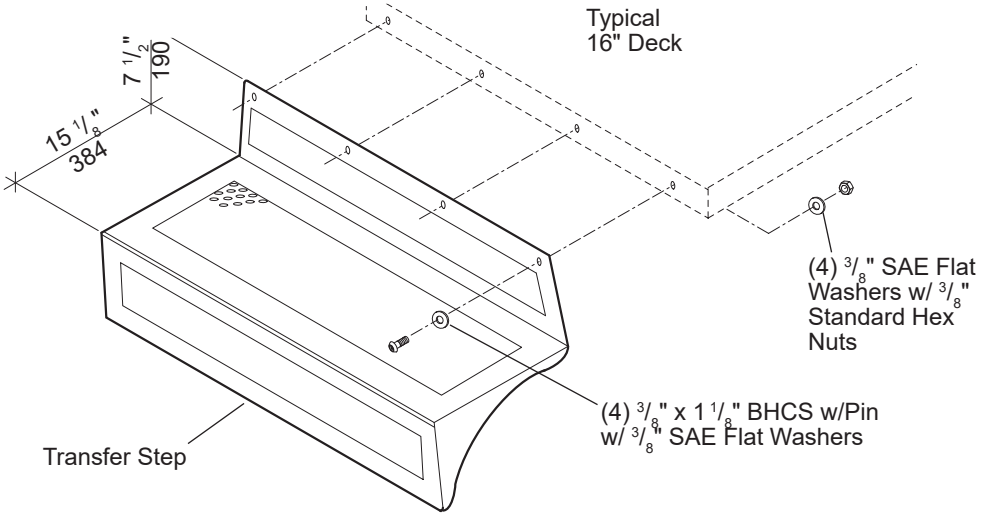
DETAIL T-CONN.



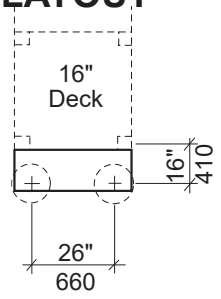
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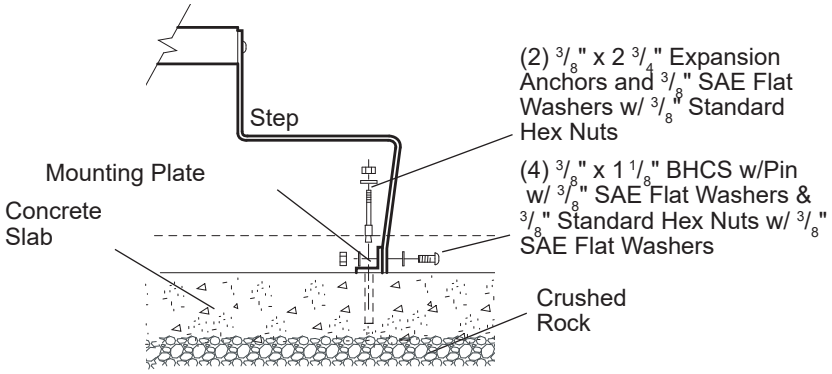
TRANSFER STEP

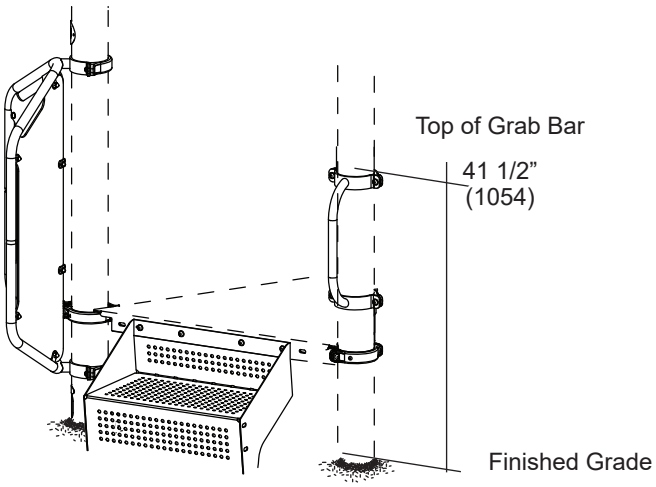


AN/FOOTING LAYOUT



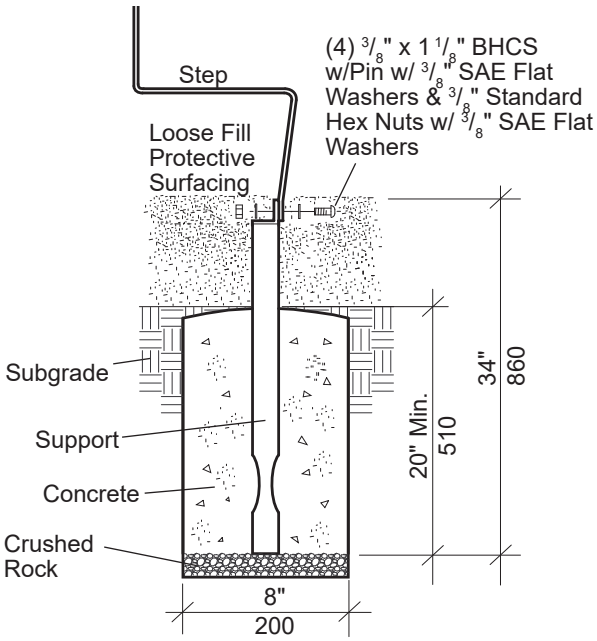
SURFACE MOUNT 2"





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

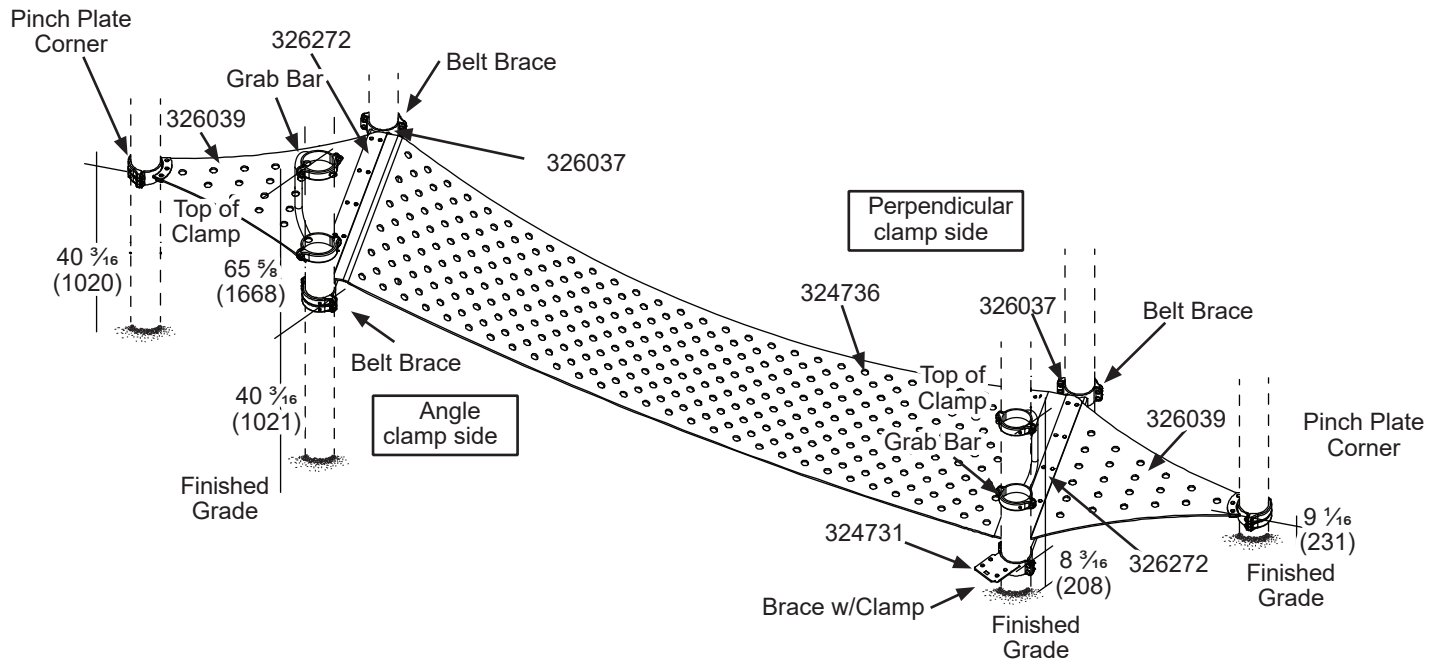
DIRECT BURY



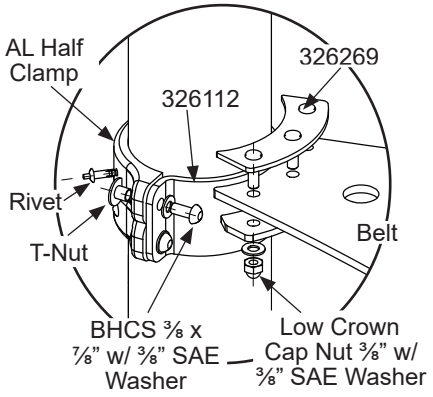
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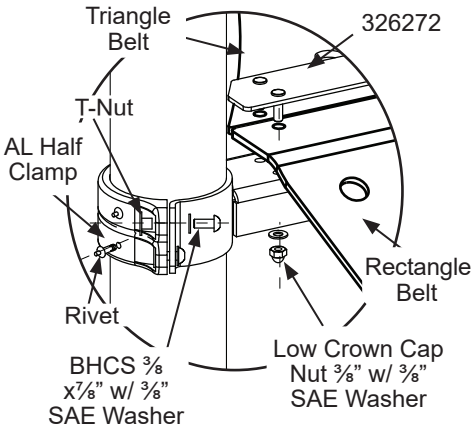
INCLINED BELT BRIDGE



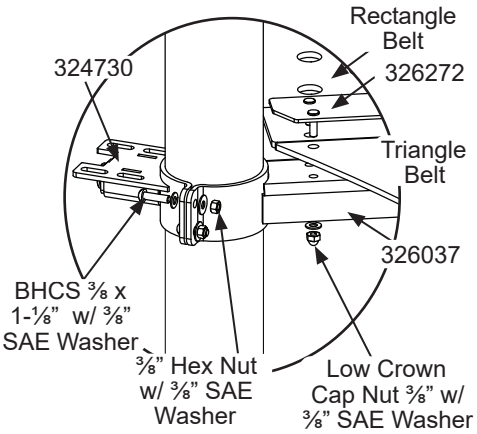
DETAIL PINCH PLATE CORNER



DETAIL BELT BRACE



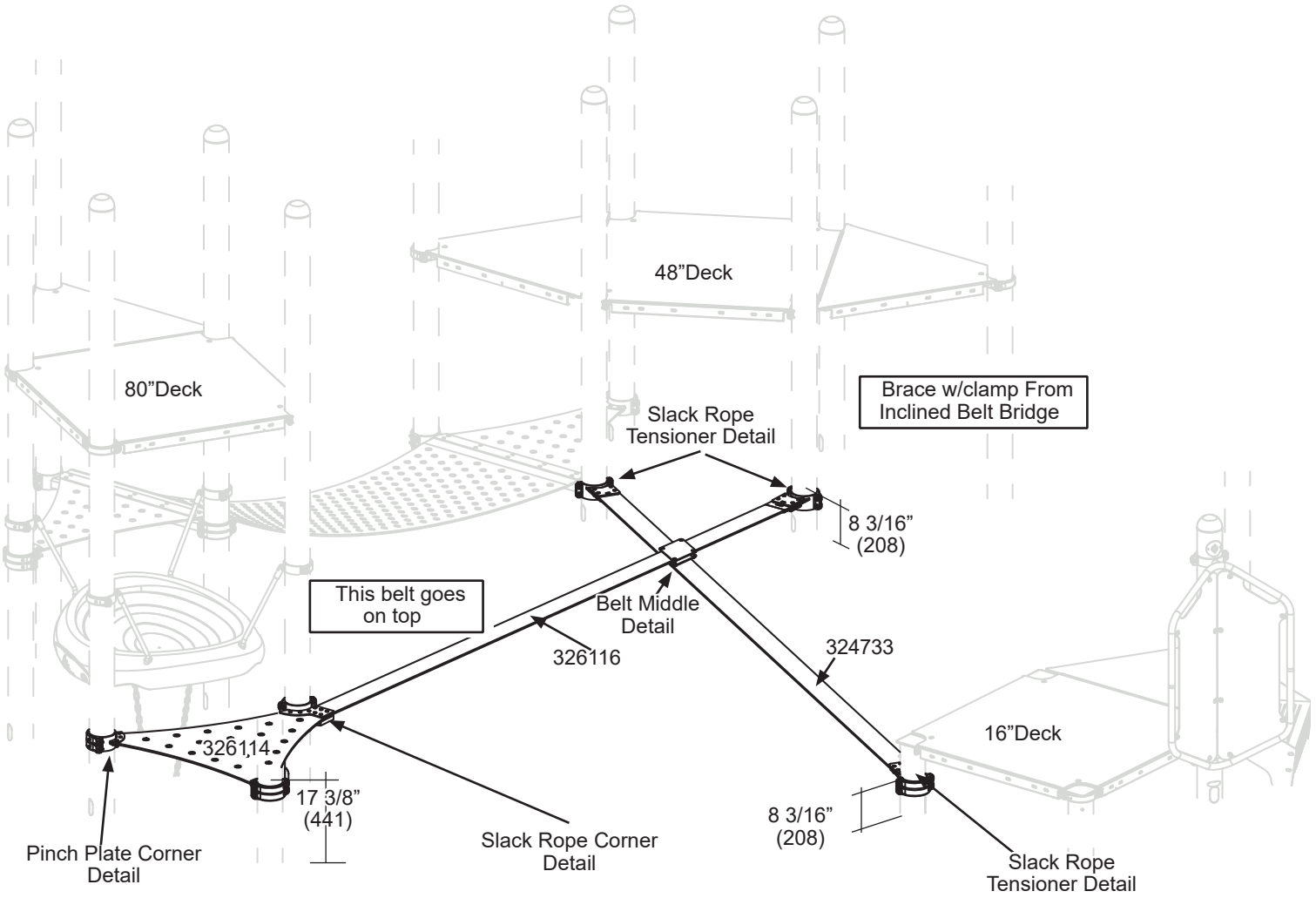
DETAIL BRACE W/ CLAMP



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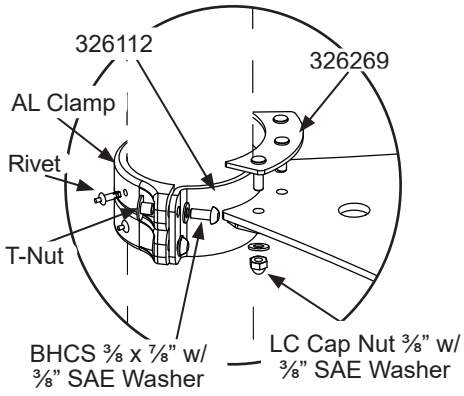
SLACK LINES



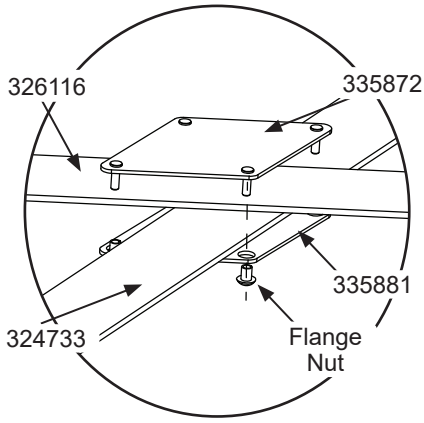
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SLACK LINES

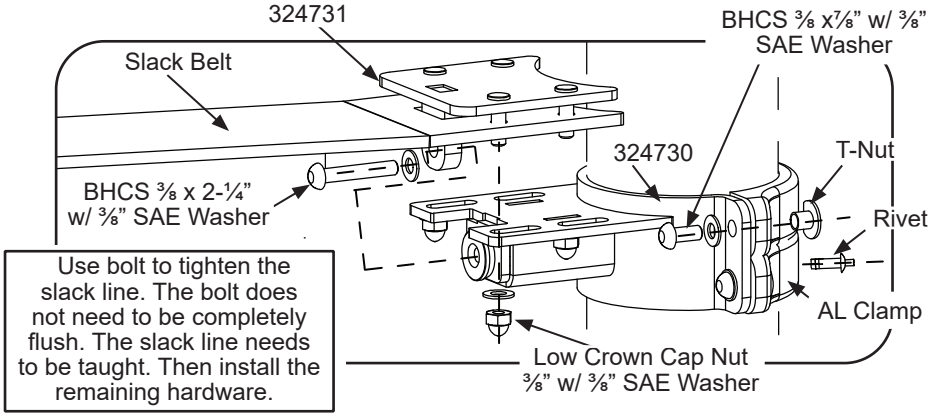
DETAIL TRI BELT CLAMP



DETAIL BELT MIDDLE

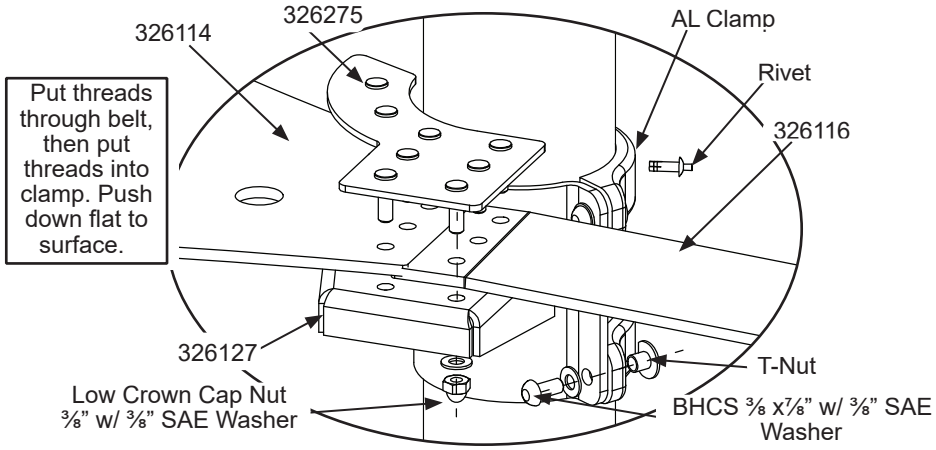


DETAIL SLACK ROPE TENSIONER



Use bolt to tighten the slack line. The bolt does not need to be completely flush. The slack line needs to be taught. Then install the remaining hardware.

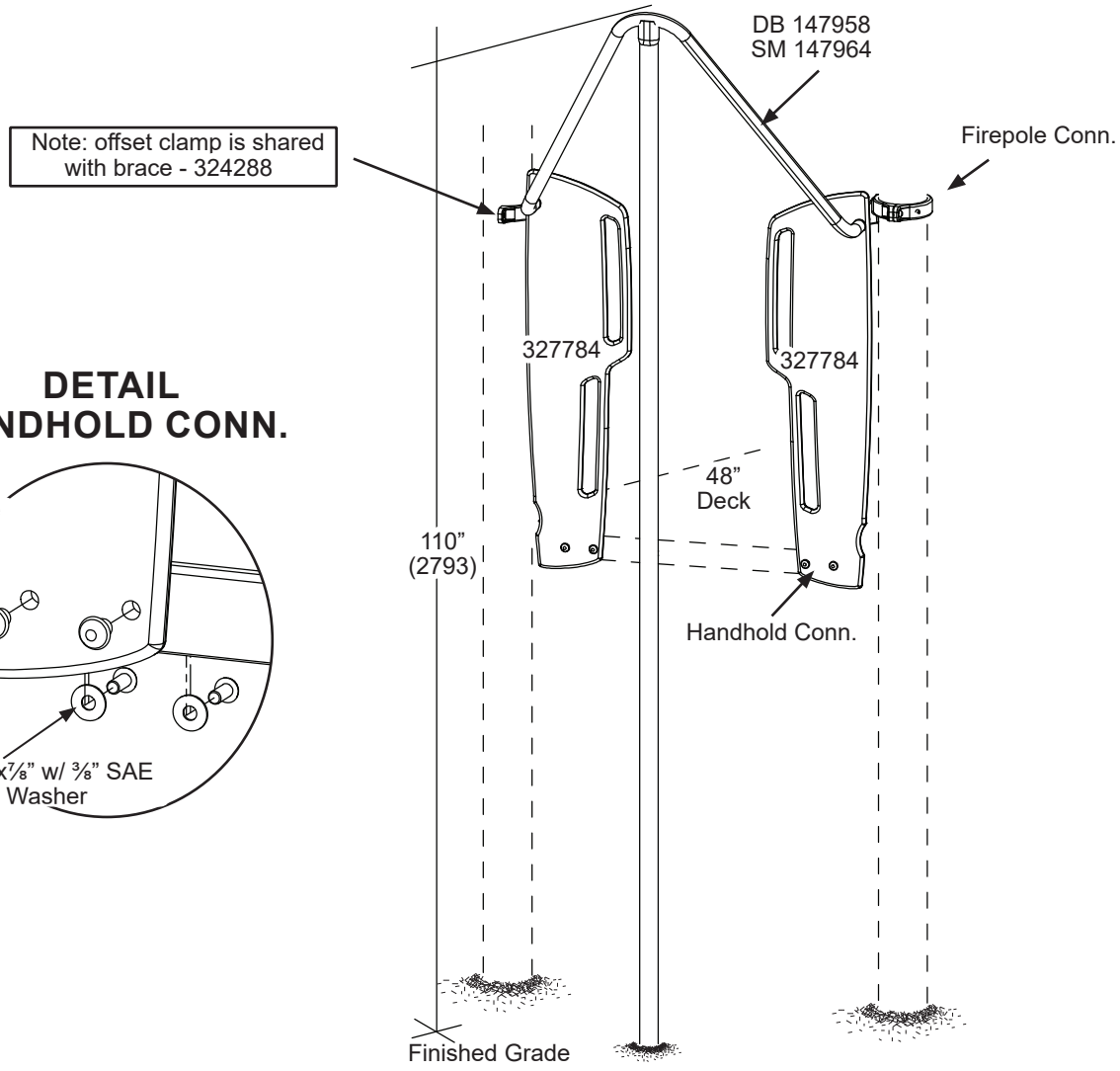
DETAIL SLACK ROPE CORNER



Put threads through belt, then put threads into clamp. Push down flat to surface.

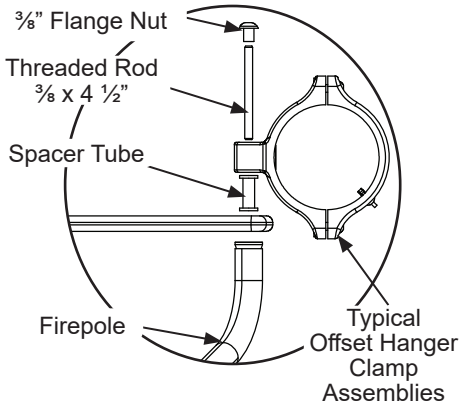
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FIREPOLE



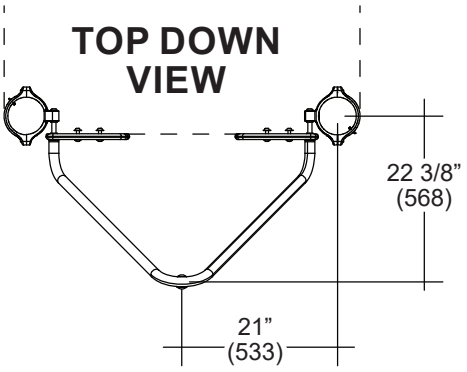
DETAIL HANDHOLD CONN.

DETAIL FIREPOLE CONN.



The outside edge of the pod must be greater than 20” from the edge of the firepole.

TOP DOWN VIEW

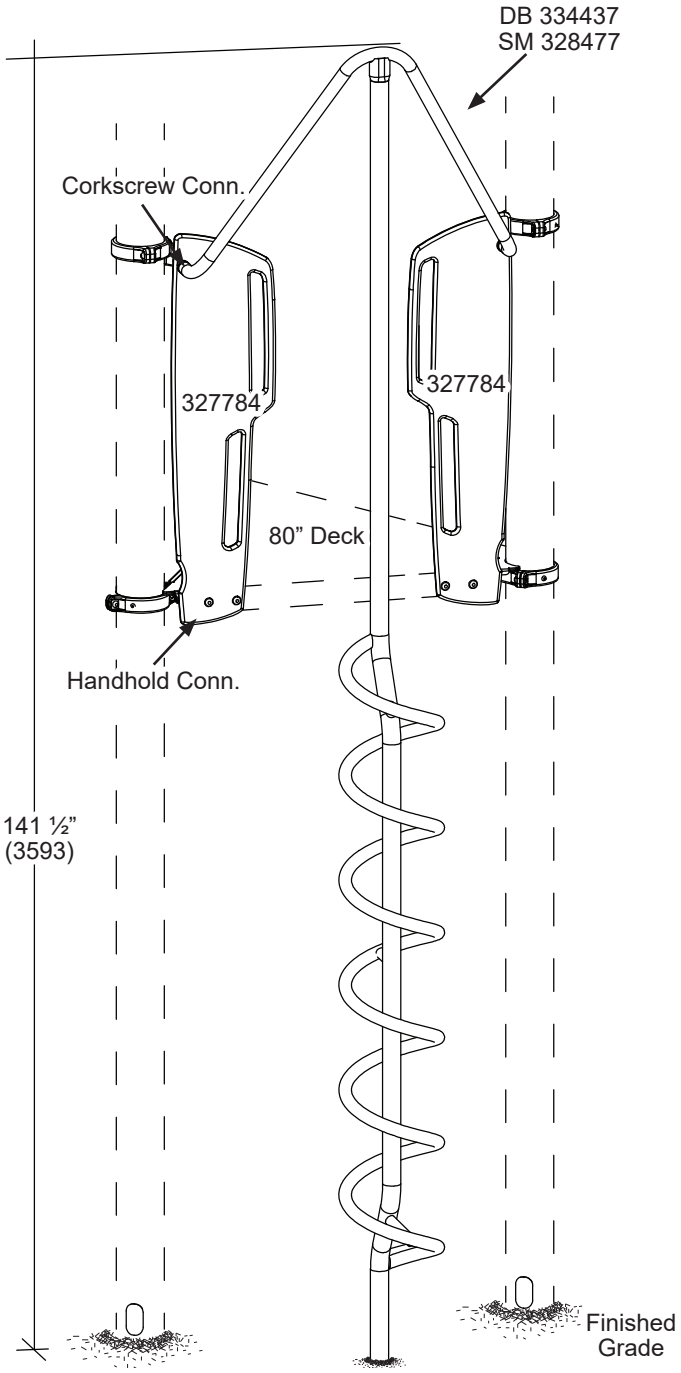


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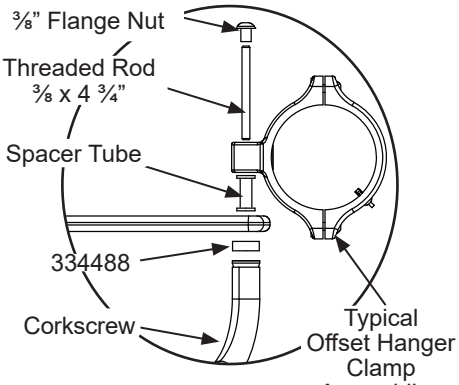
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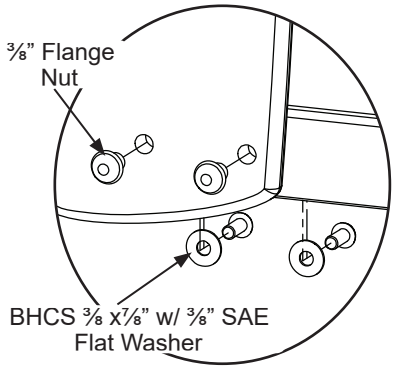
CORKSCREW



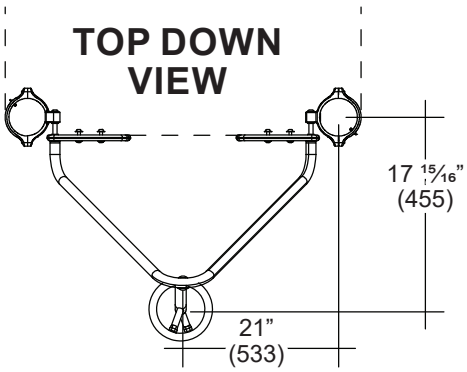
DETAIL CORKSCREW CONN.



DETAIL HANDHOLD CONN.



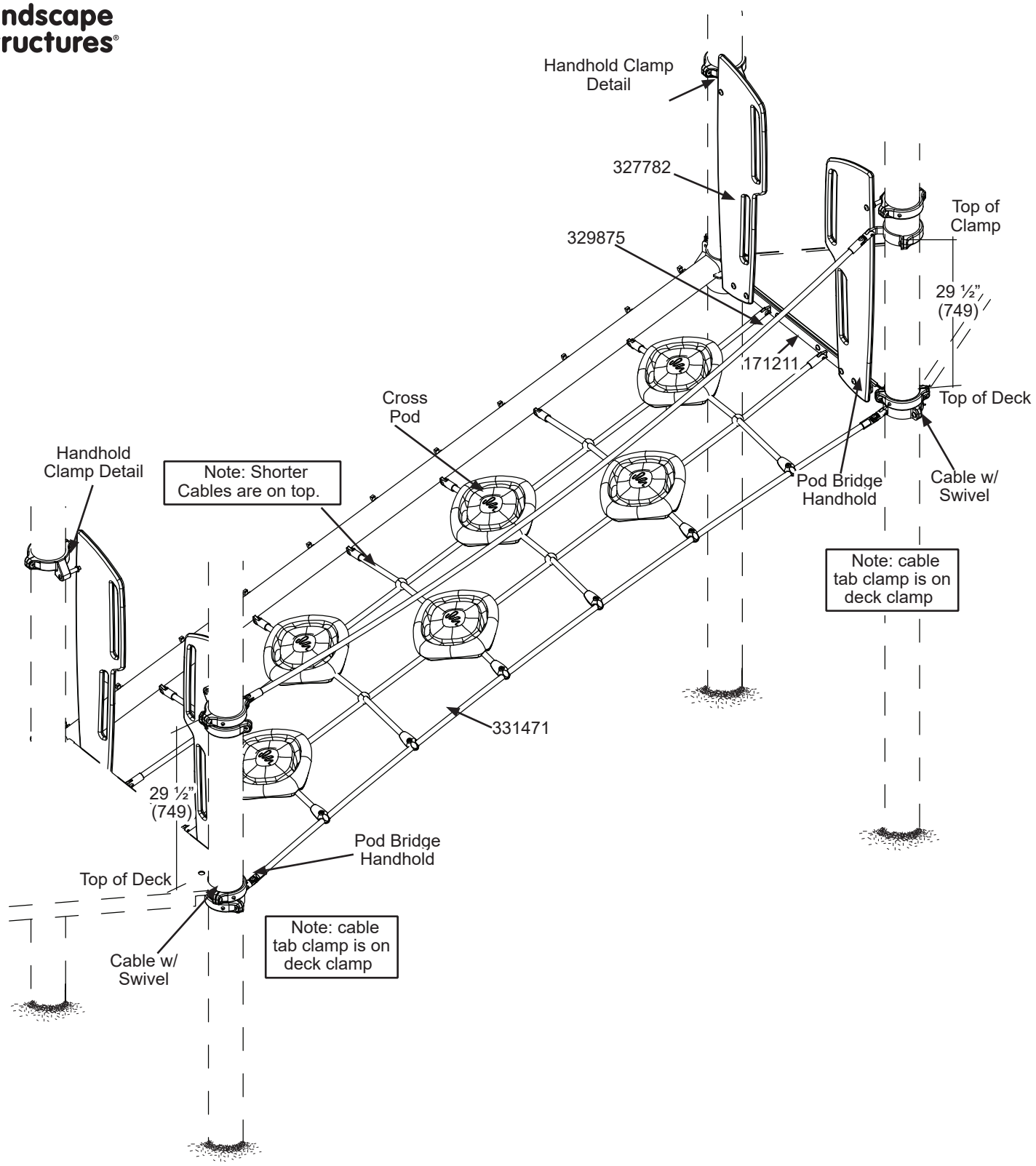
TOP DOWN VIEW



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INCLINED POD BRIDGE



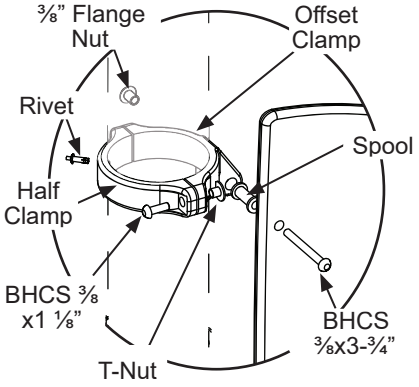
Approx. End to End Cable length	
329875	117-7/16"

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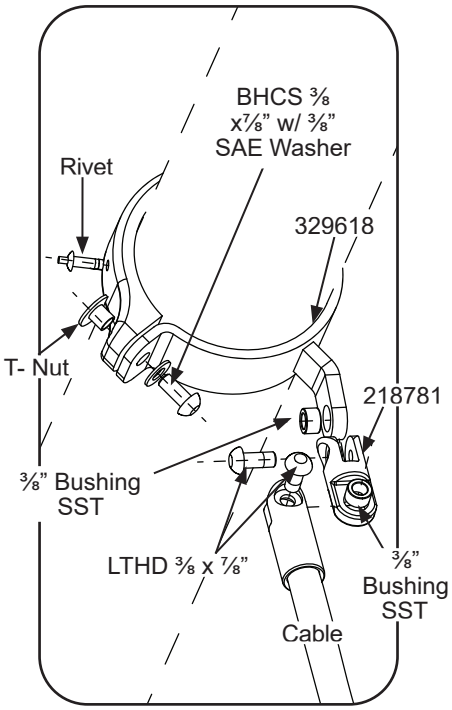
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INCLINED POD BRIDGE

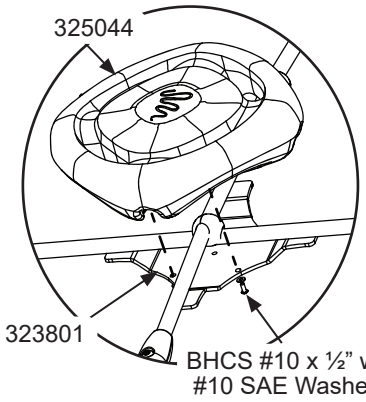
DETAIL HANDHOLD CLAMP



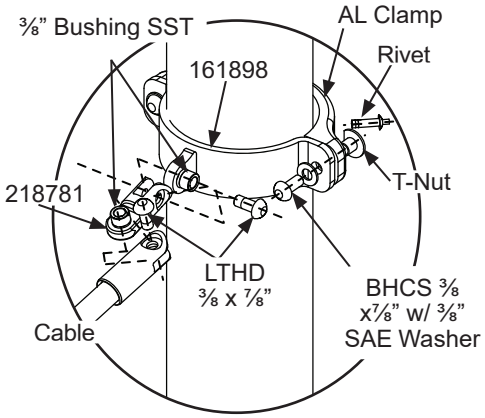
DETAIL BENT TAB CLAMP



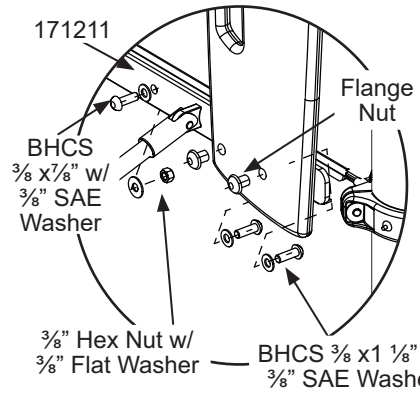
DETAIL CROSS POD



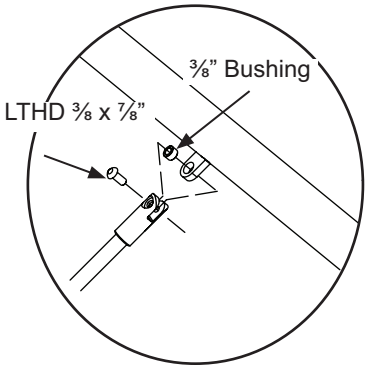
DETAIL CLAMP W/ SWIVEL



DETAIL POD BRIDGE HANDHOLD



DETAIL CABLE TAB CONN.

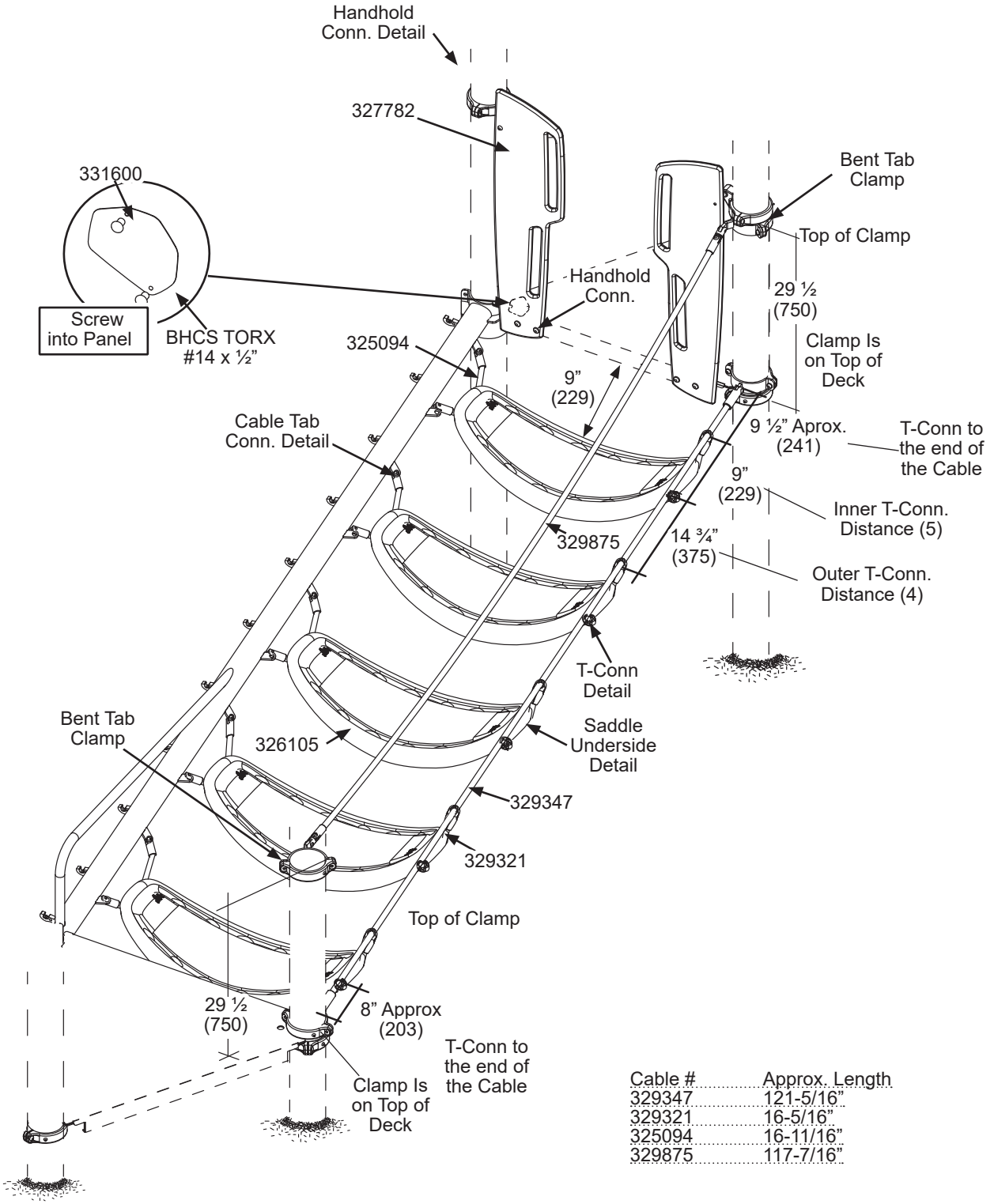


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SADDLE CLIMBER



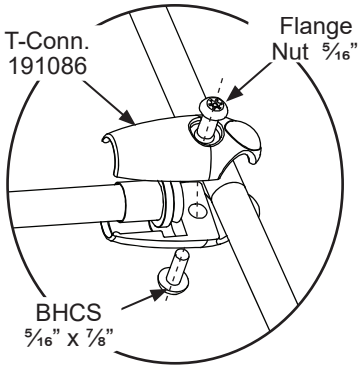
Cable #	Approx. Length
329347	121-5/16”
329321	16-5/16”
325094	16-11/16”
329875	117-7/16”

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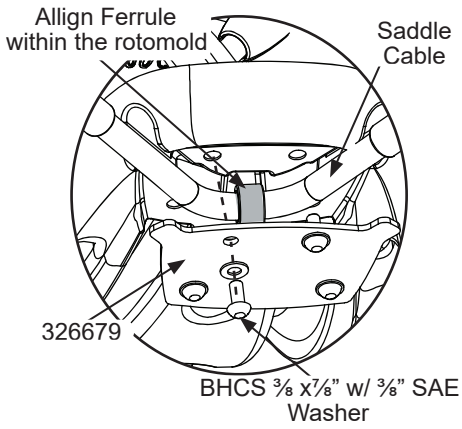
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SADDLE CLIMBER

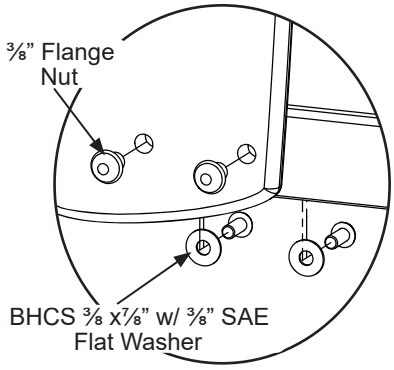
DETAIL T-CONN.



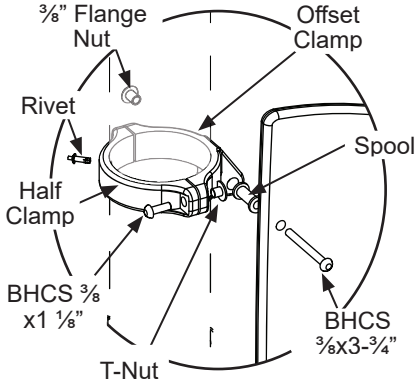
DETAIL SADDLE UNDERSIDE



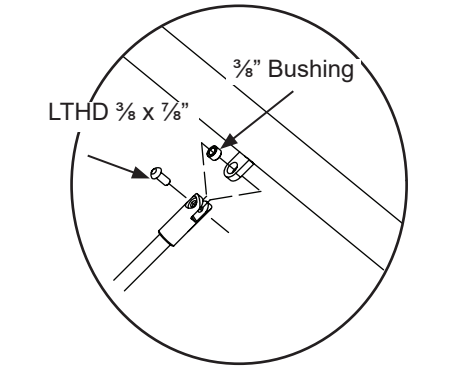
DETAIL HANDHOLD CONN.



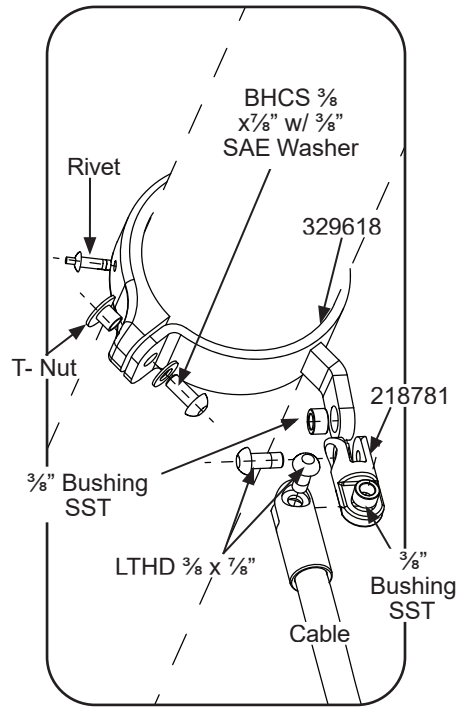
DETAIL HANDHOLD CLAMP



DETAIL CABLE TAB CONN.



DETAIL BENT TAB CLAMP

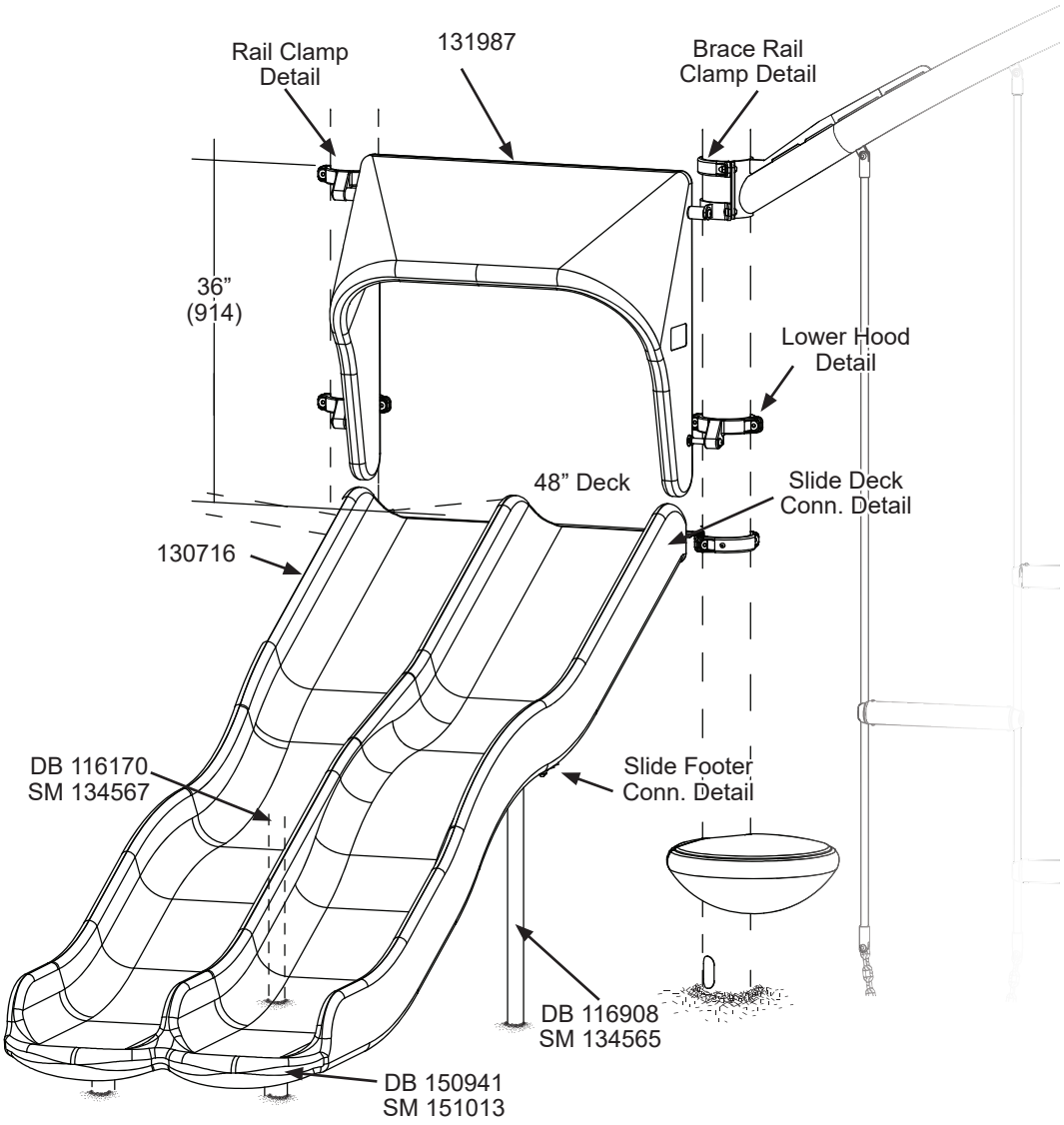


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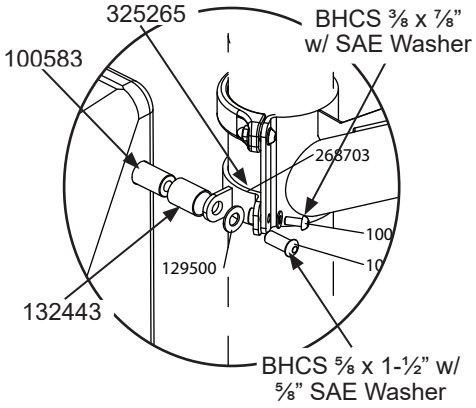
DOUBLE WAVE SLIDE



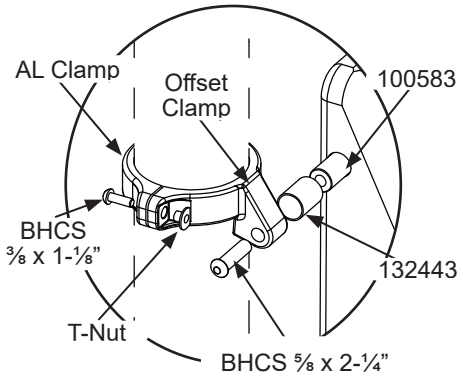
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DOUBLE WAVE SLIDE

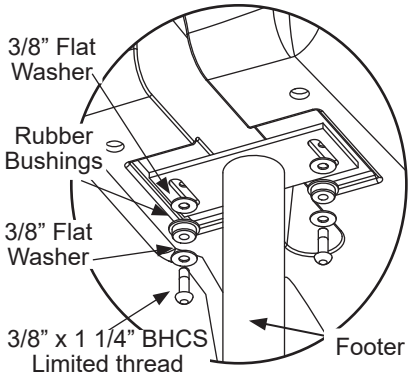
DETAIL BRACE RAIL CLAMP



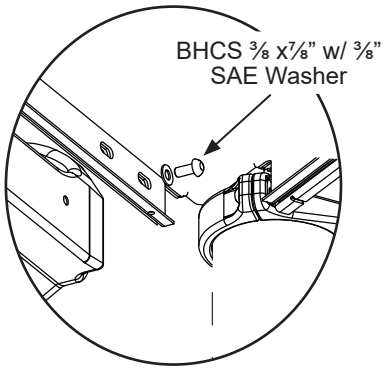
DETAIL RAIL CLAMP



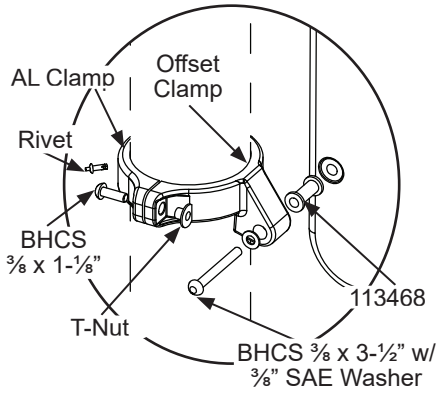
DETAIL SLIDE FOOTER CONN.



DETAIL SLIDE DECK CONN.

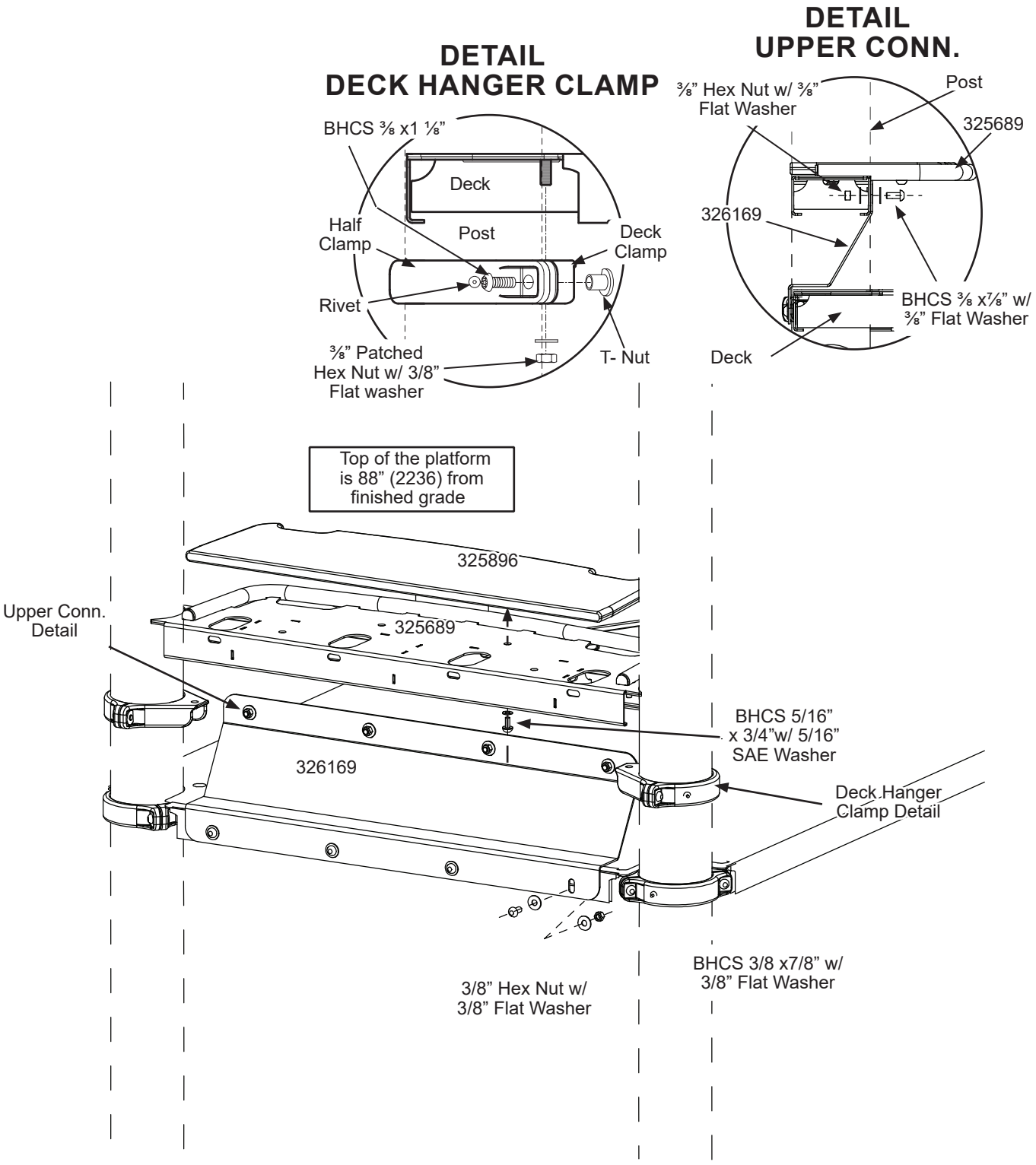


DETAIL LOWER HOOD



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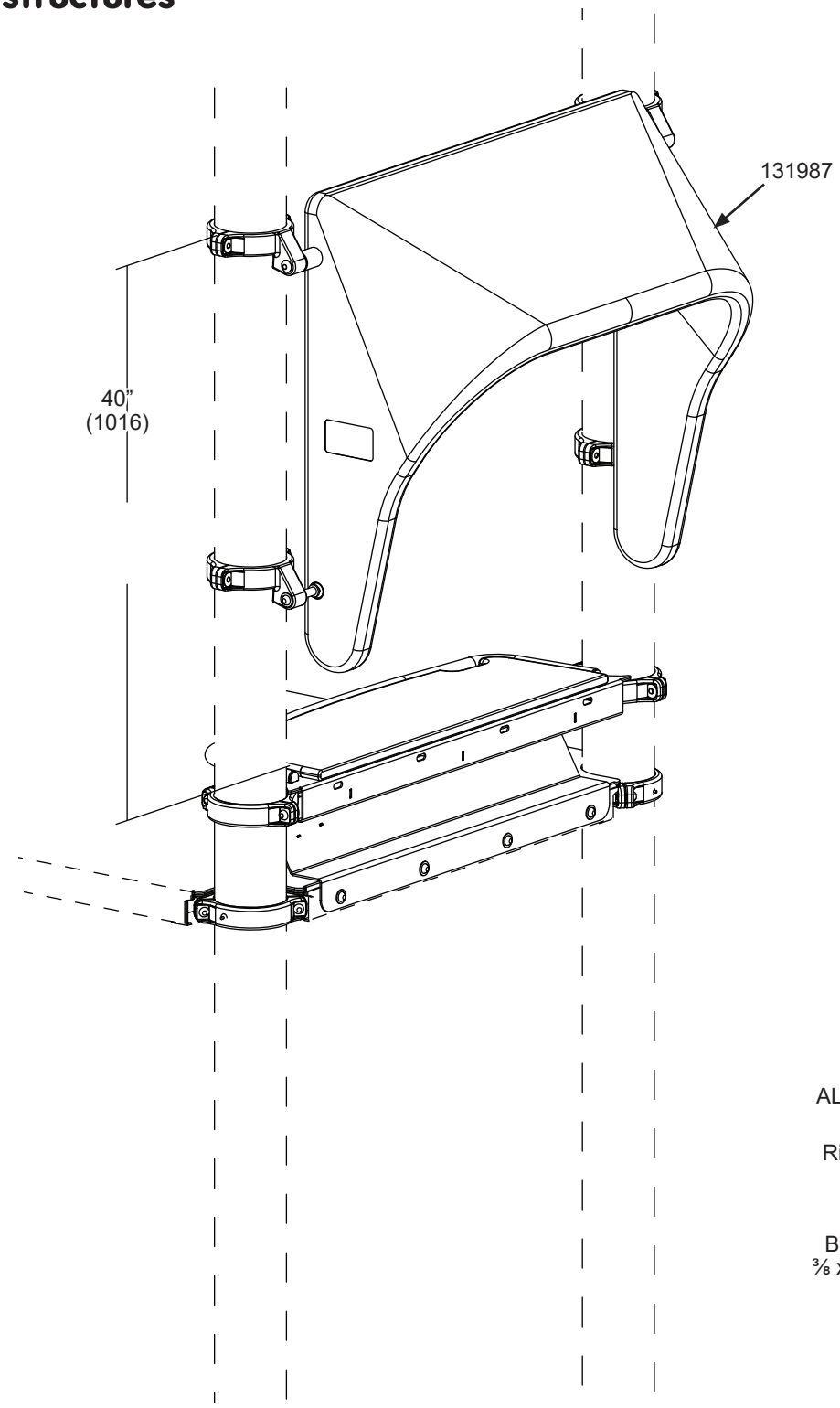
SLIDE DECK



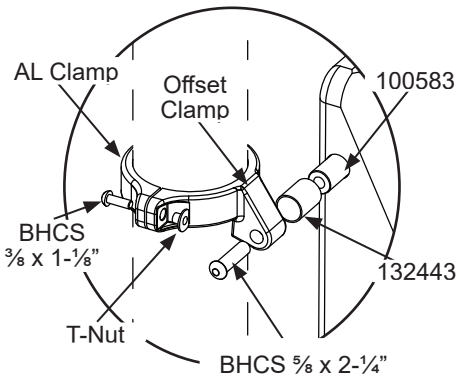
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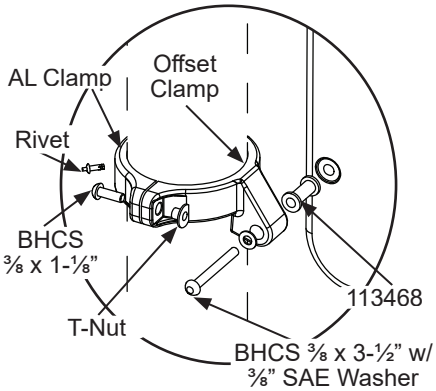
ALPINE SLIDE



DETAIL RAIL CLAMP



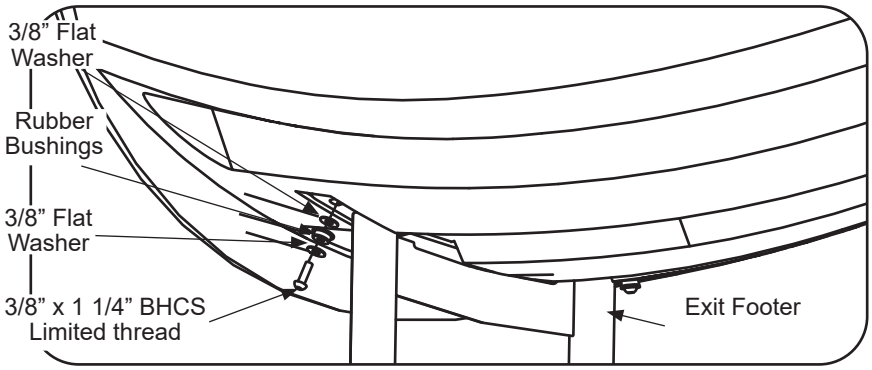
DETAIL LOWER HOOD



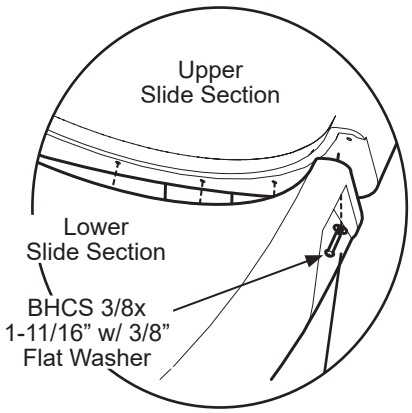
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ALPINE SLIDE

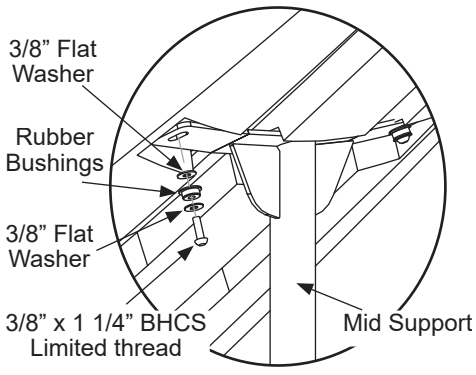
DETAIL
ALPINE EXIT FOOTER



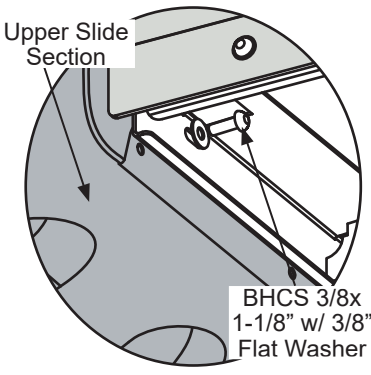
DETAIL
SLIDE CONN.



DETAIL
MID SUPPORT



DETAIL
SLIDE DECK CONN.



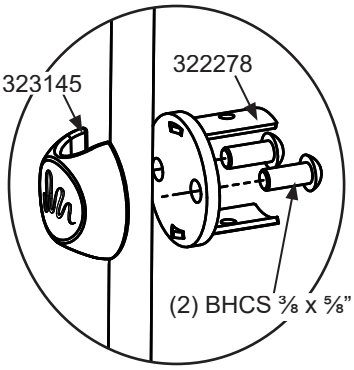
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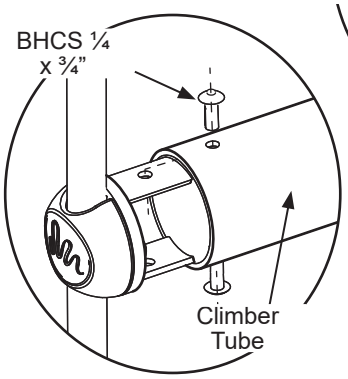
Document #34735700

RUNG CLIMBER

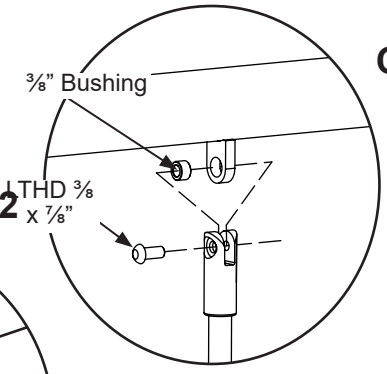
DETAIL RUNG STEP 1



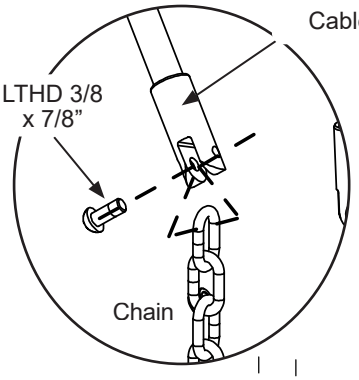
DETAIL RUNG STEP 2



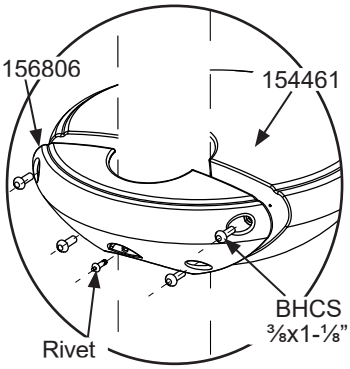
DETAIL CABLE TAB CONN.

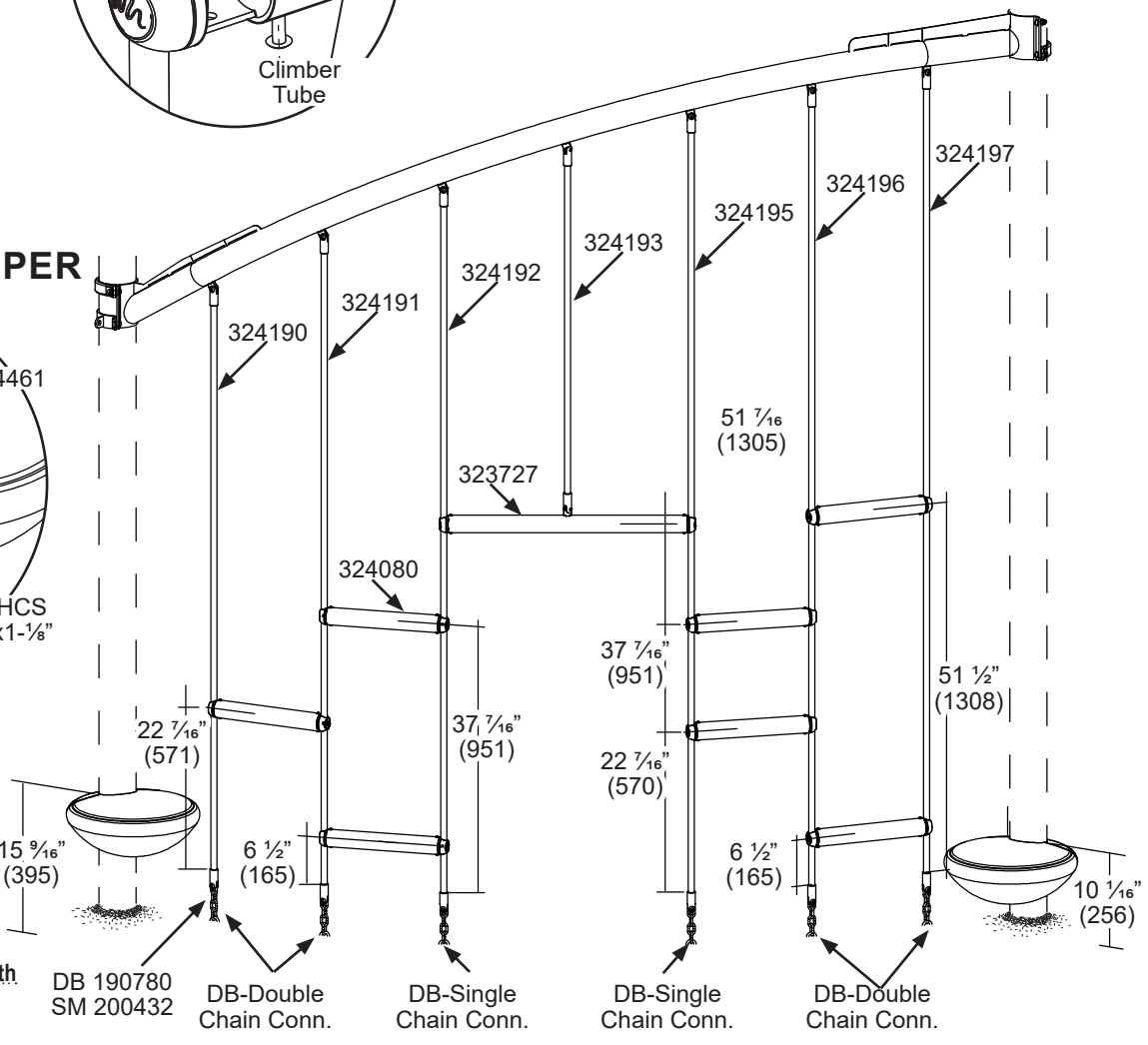


DETAIL CABLE / CHAIN CONN.



DETAIL EVOS POD STEPPER





Cable #	Approx. Length
324190	84 1/8”
324191	93 5/8”
324192	101 3/8”
324193	51 5/8”
324195	111 5/8”
324196	114 1/4”
324197	115”

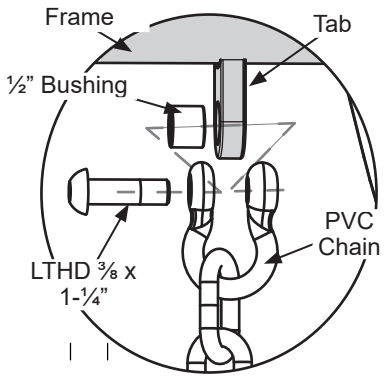
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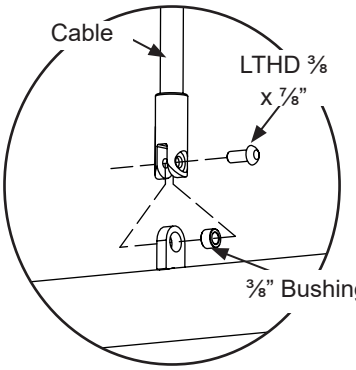
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PENTAGON CLIMBER

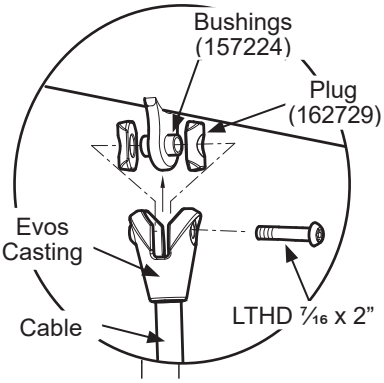
DETAIL PVC CHAIN CONN.

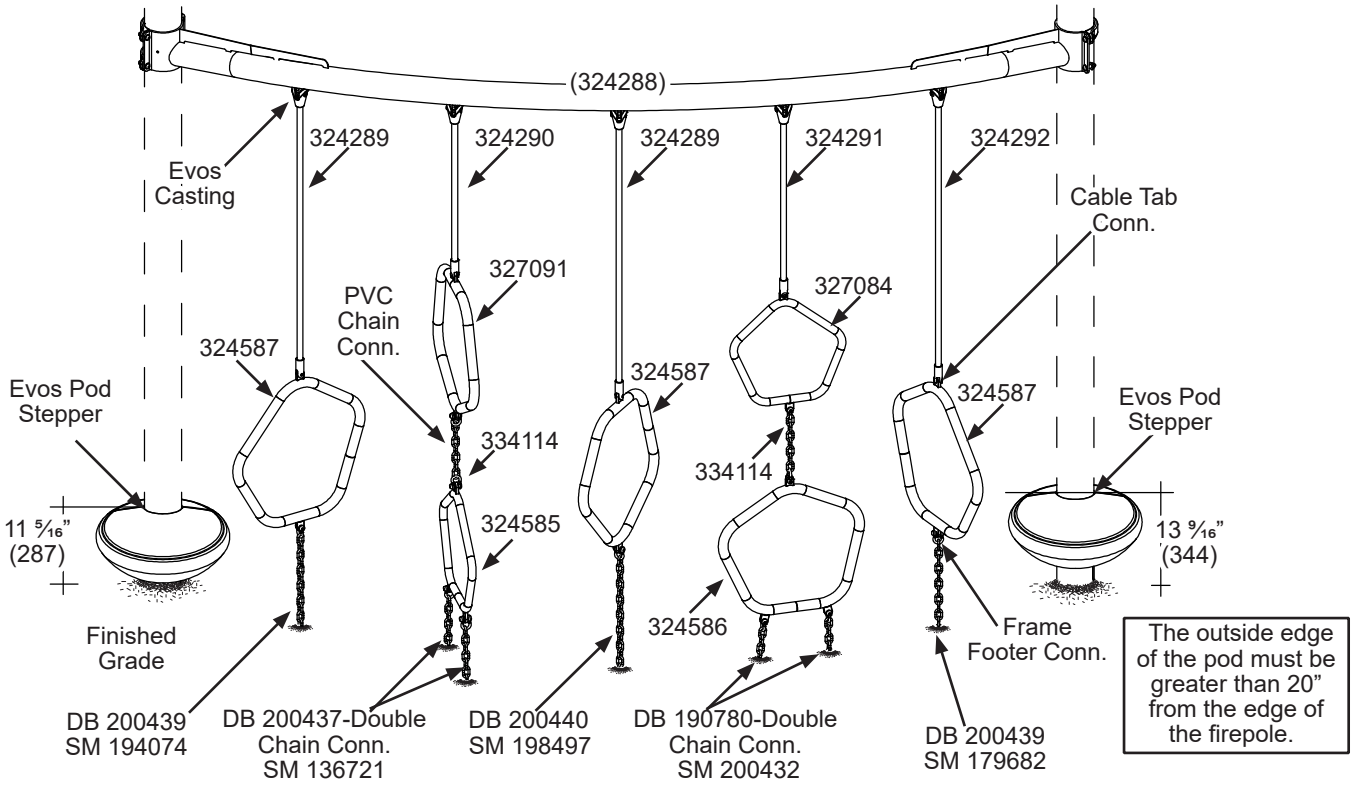


DETAIL CABLE TAB CONN.



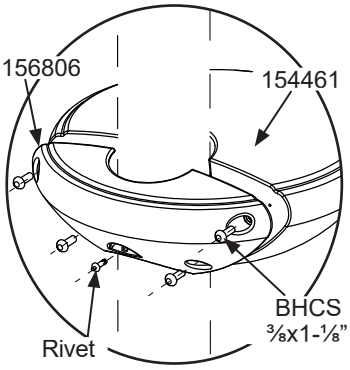
DETAIL EVOS CASTING



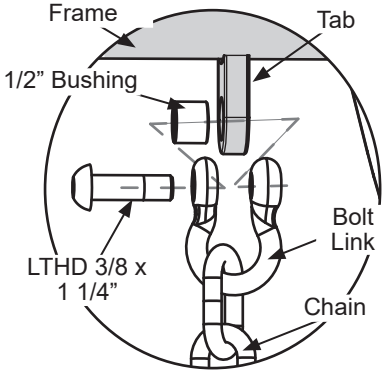


The outside edge of the pod must be greater than 20" from the edge of the firepole.

DETAIL EVOS POD STEPPER



DETAIL FRAME FOOTER CONN.



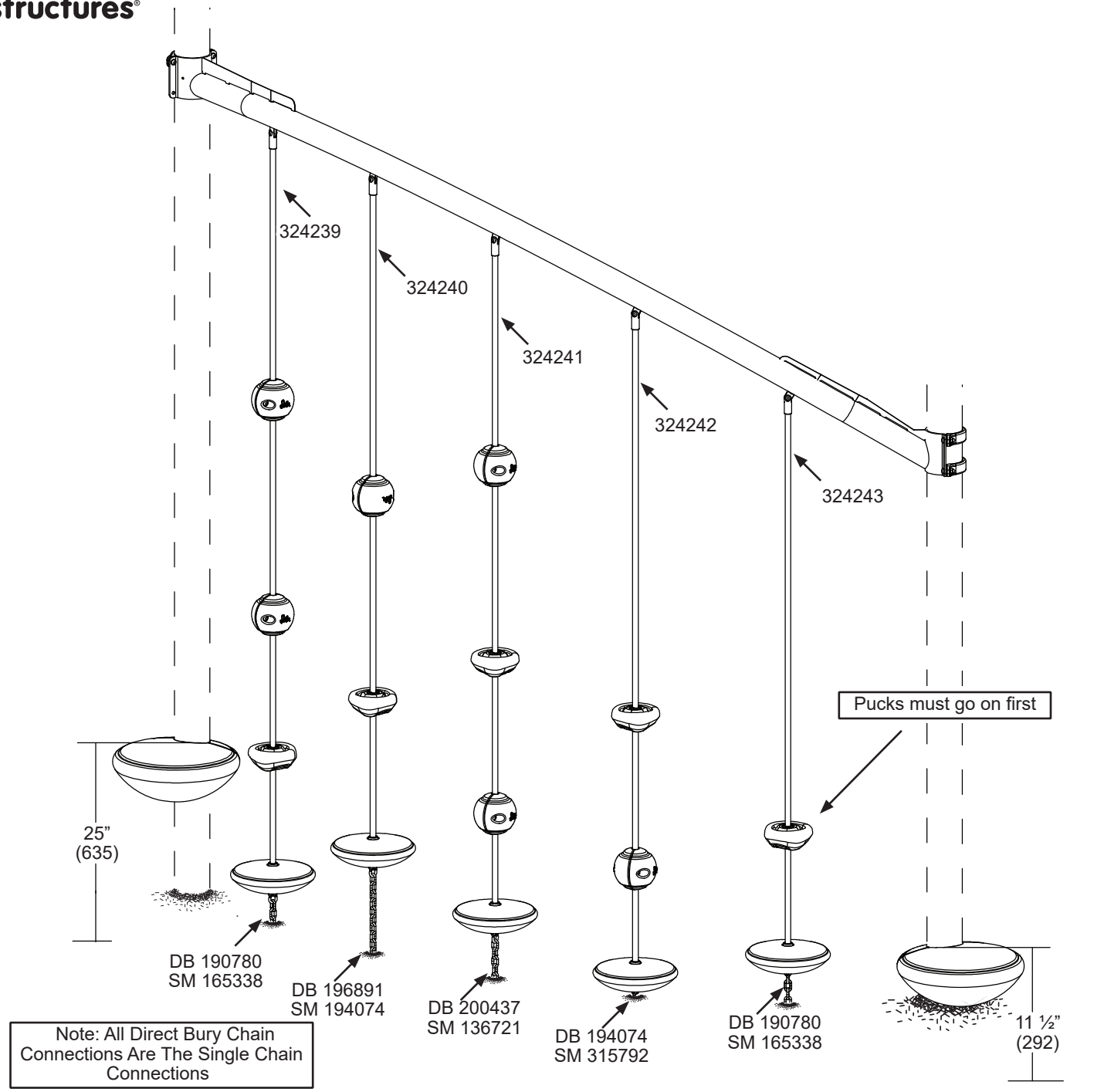
Cable #	Approx. Length
324289	45"
324292	46"
324291	30"
324290	27"

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SWIGGLE KNOTS BRIDGE



Cable #	Approx. Length
324239	110 1/4”
324240	99 5/8”
324241	100 3/8”
324242	98 1/8”
324243	83 1/8”

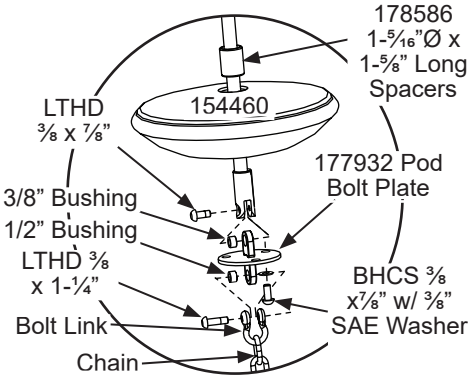
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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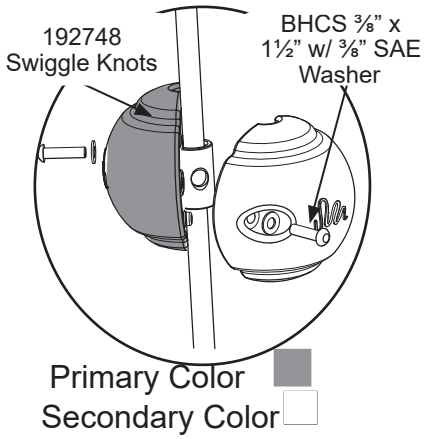
Document #34735700

SWIGGLE KNOTS BRIDGE

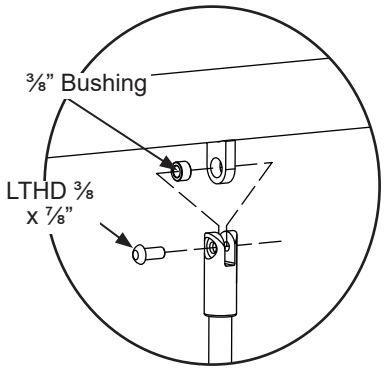
DETAIL SWIGGLE POD ASM.



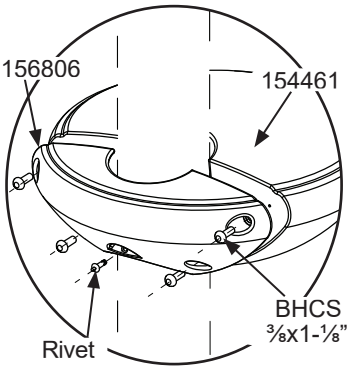
DETAIL BALL KNOT CONN.



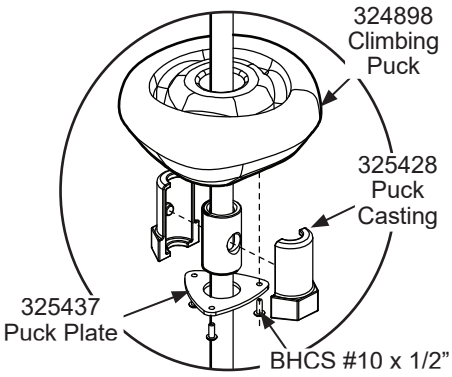
DETAIL CABLE TAB CONN.



DETAIL EVOS POD STEPPER



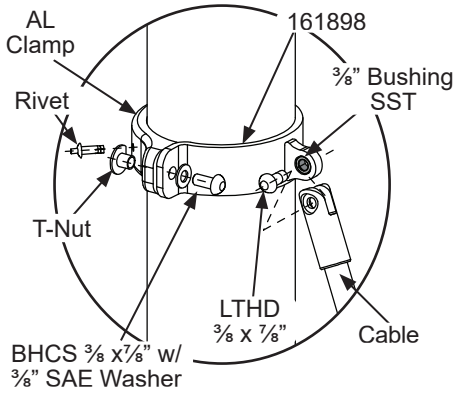
DETAIL PUCK ASM.

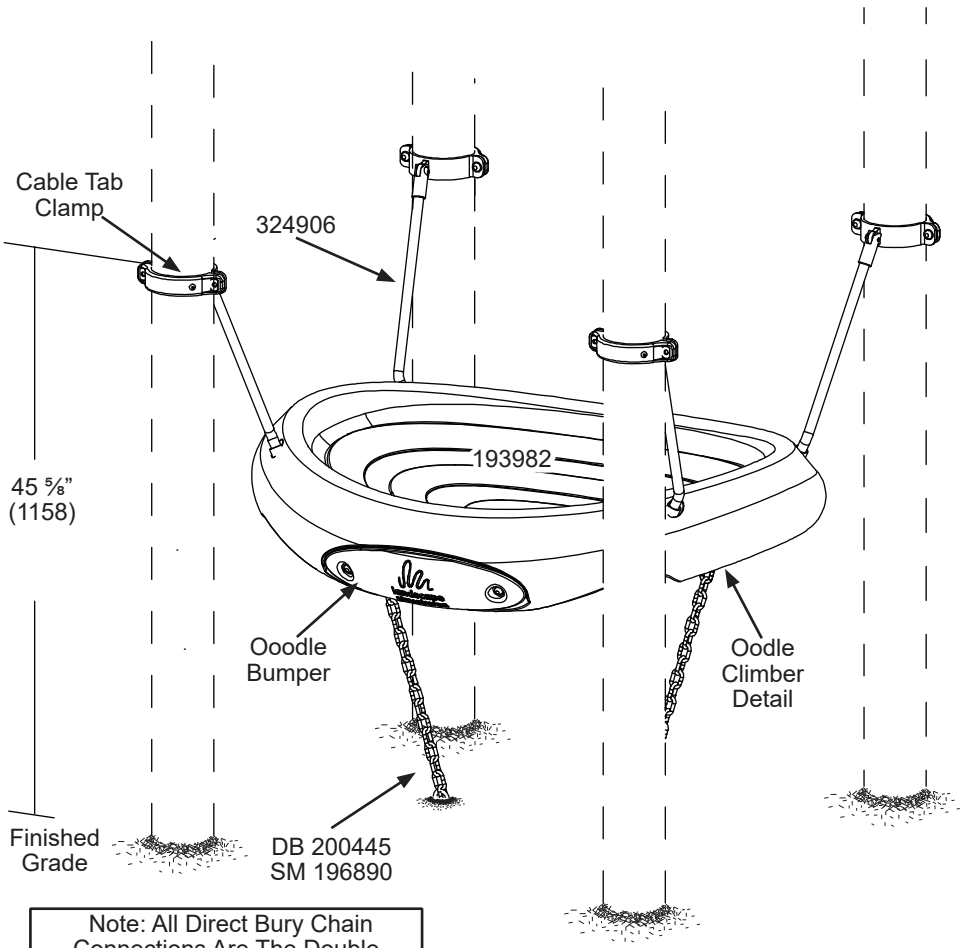


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OODLE SEAT CLIMBER

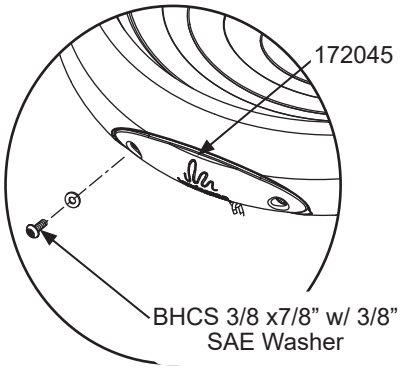
DETAIL CABLE TAB CLAMP



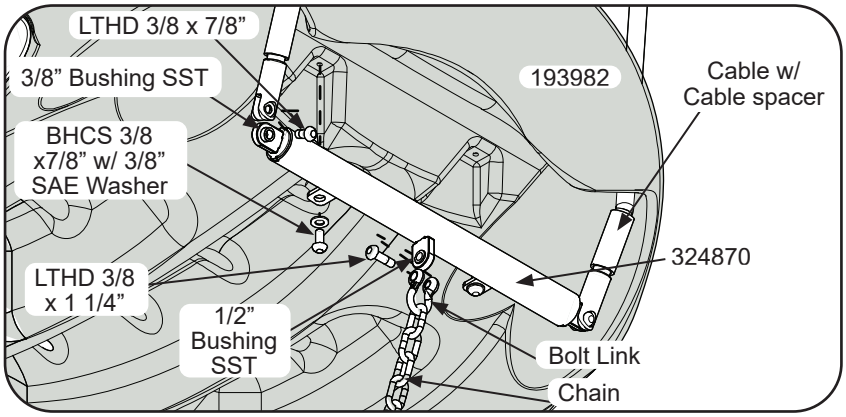


Note: All Direct Bury Chain Connections Are The Double Chain Connections

DETAIL OODLE BUMPER



DETAIL OODLE CLIMBER



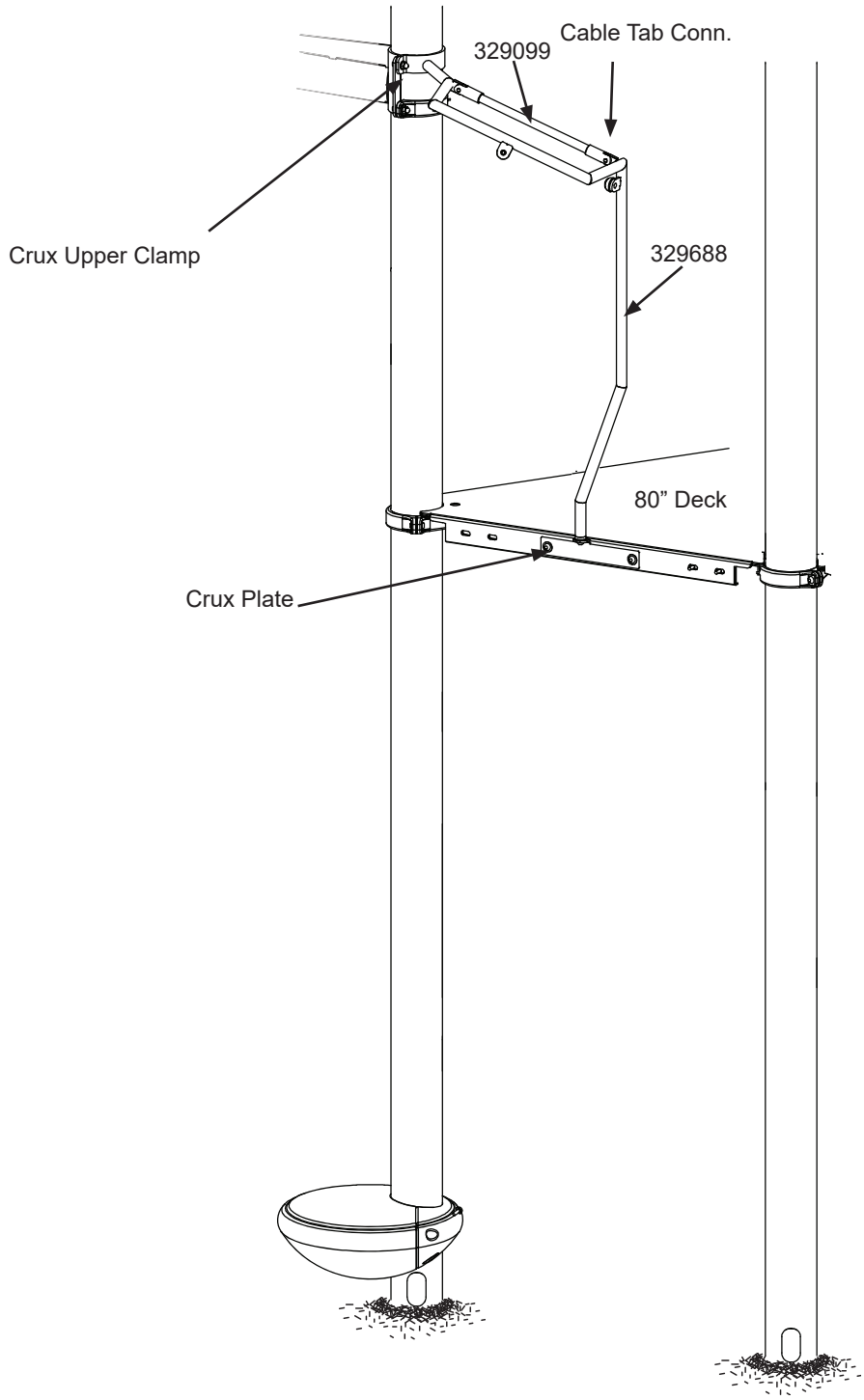
Cable #	Approx.Total Length
324906	24 3/8

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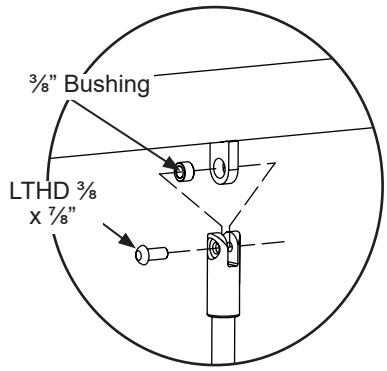
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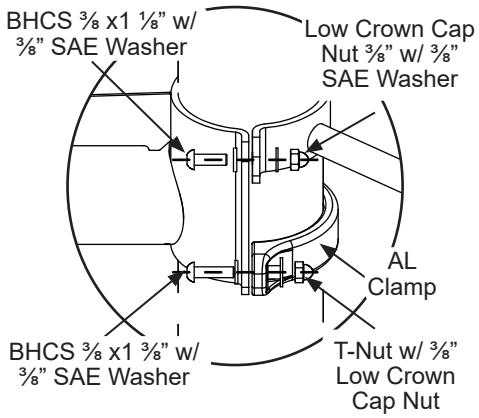
80” CRUX CLIMBER



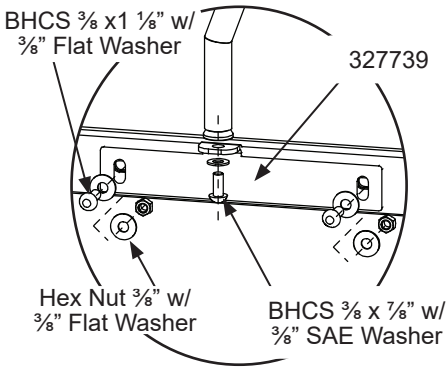
DETAIL CABLE TAB CONN.



DETAIL CRUX UPPER CLAMP



DETAIL CRUX PLATE



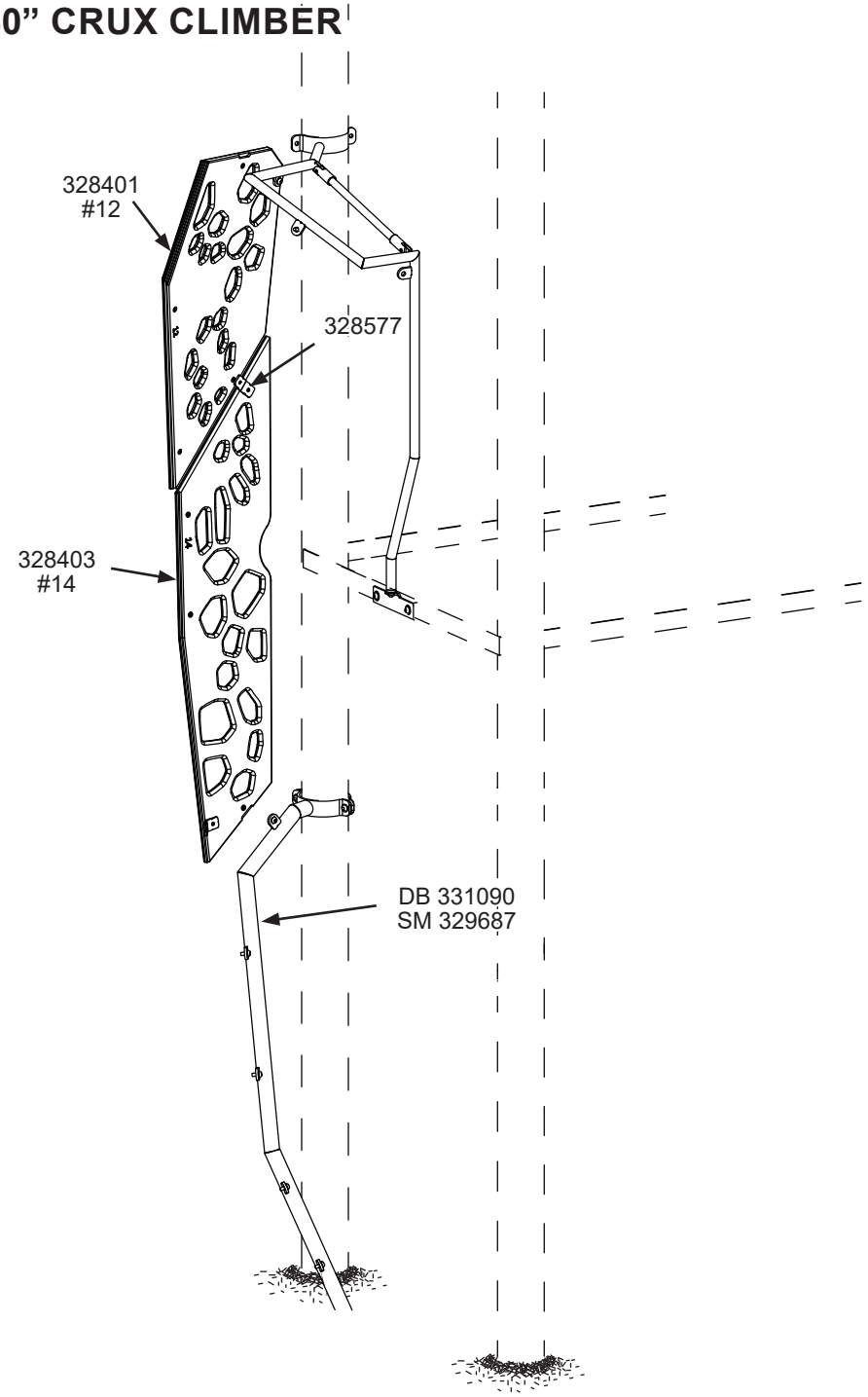
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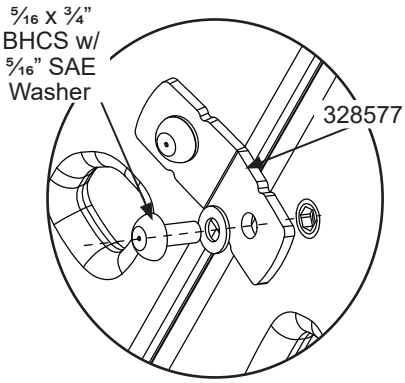
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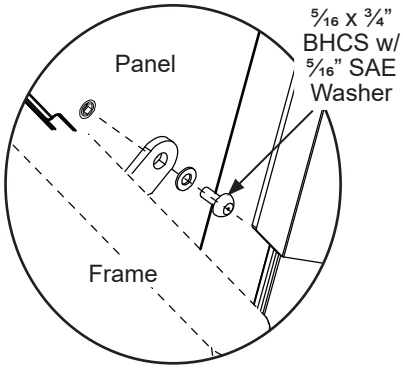
80” CRUX CLIMBER



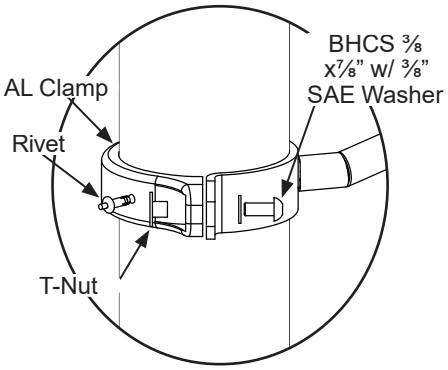
DETAIL 328577



DETAIL CRUX FRAME



DETAIL CRUX CLAMP CONN.



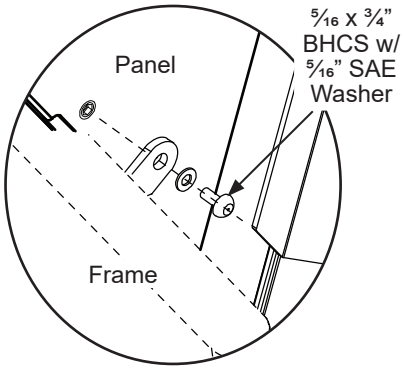
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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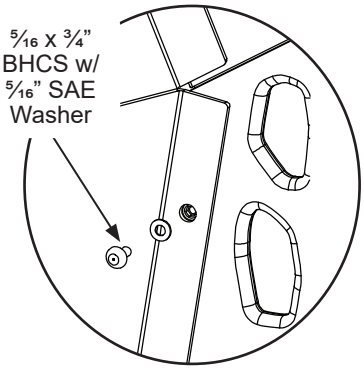
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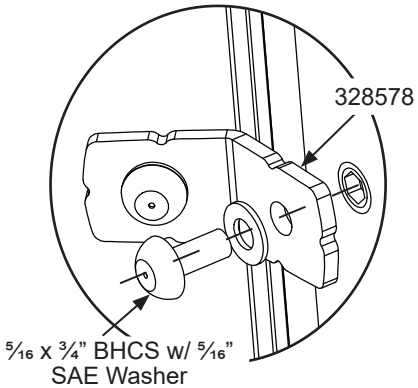
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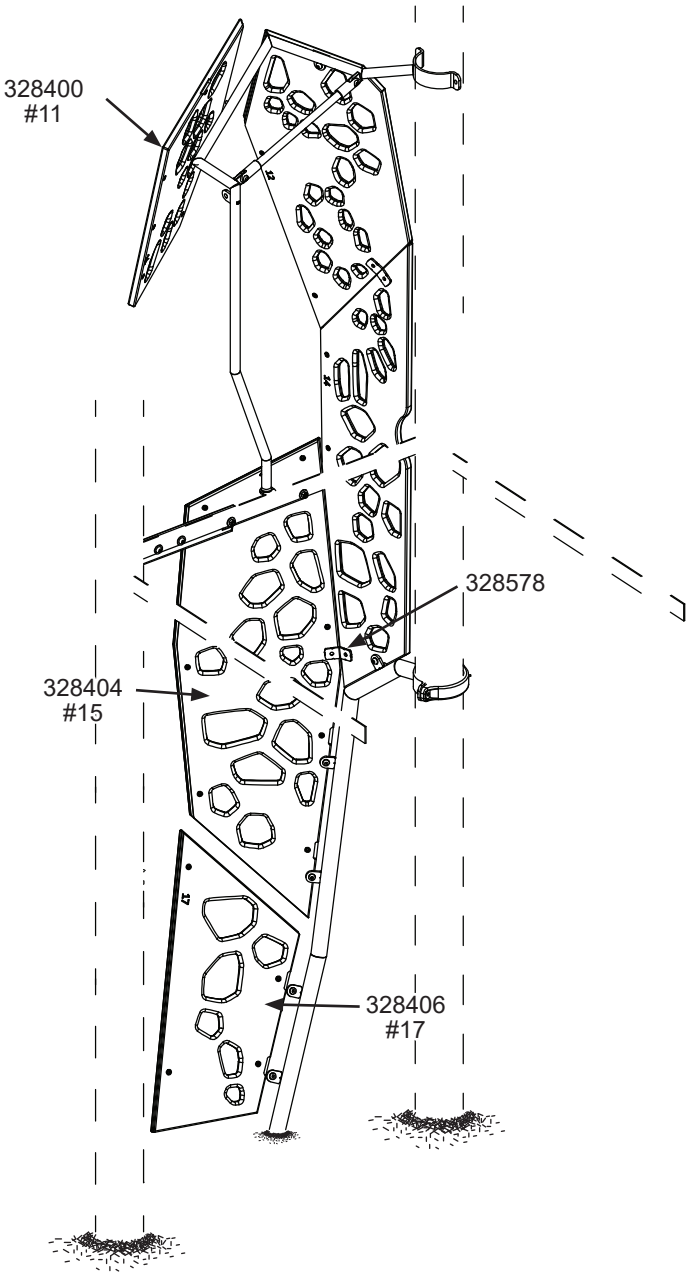


DETAIL ANGLE CONN.



DETAIL 328578



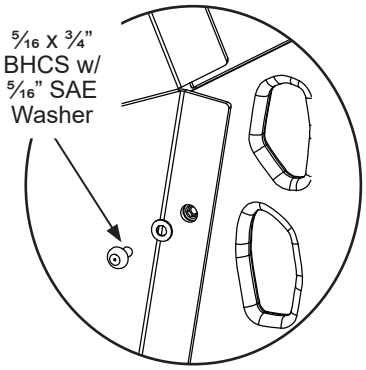


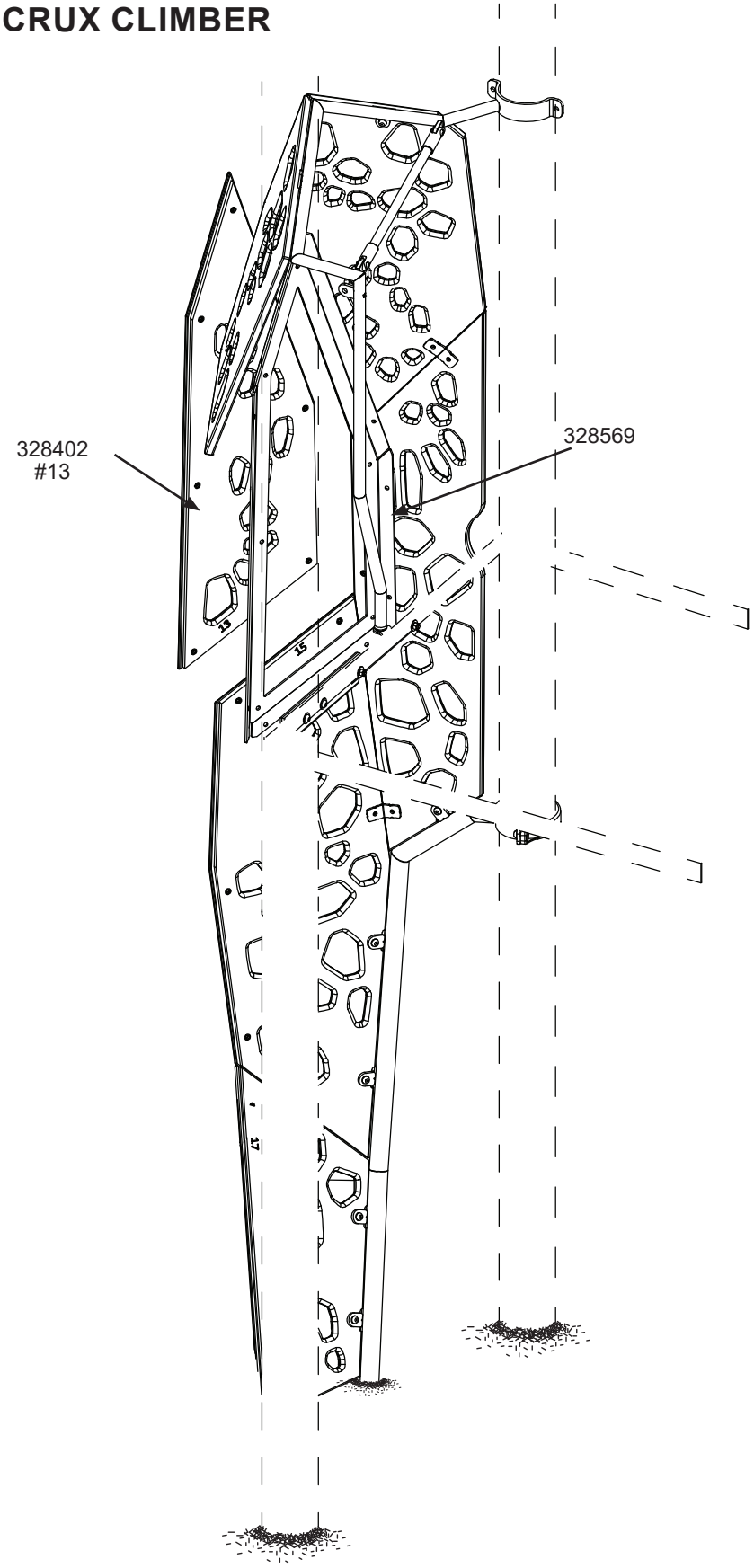
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80” CRUX CLIMBER

DETAIL ANGLE CONN.





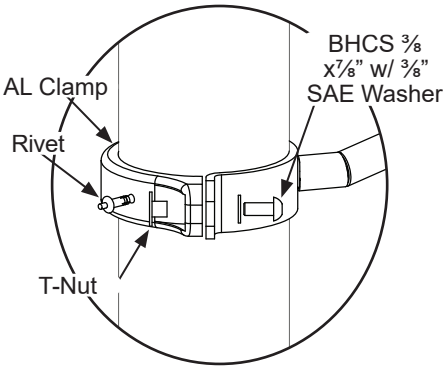
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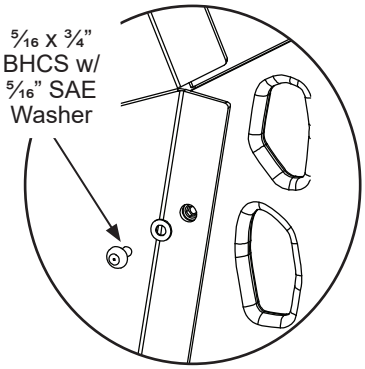
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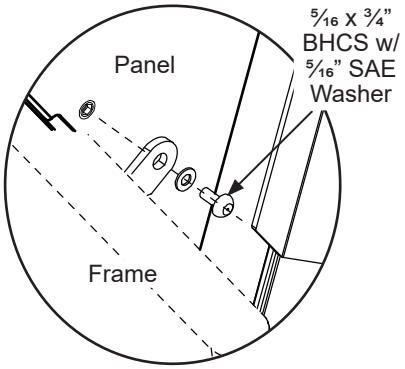
DETAIL CRUX CLAMP CONN.

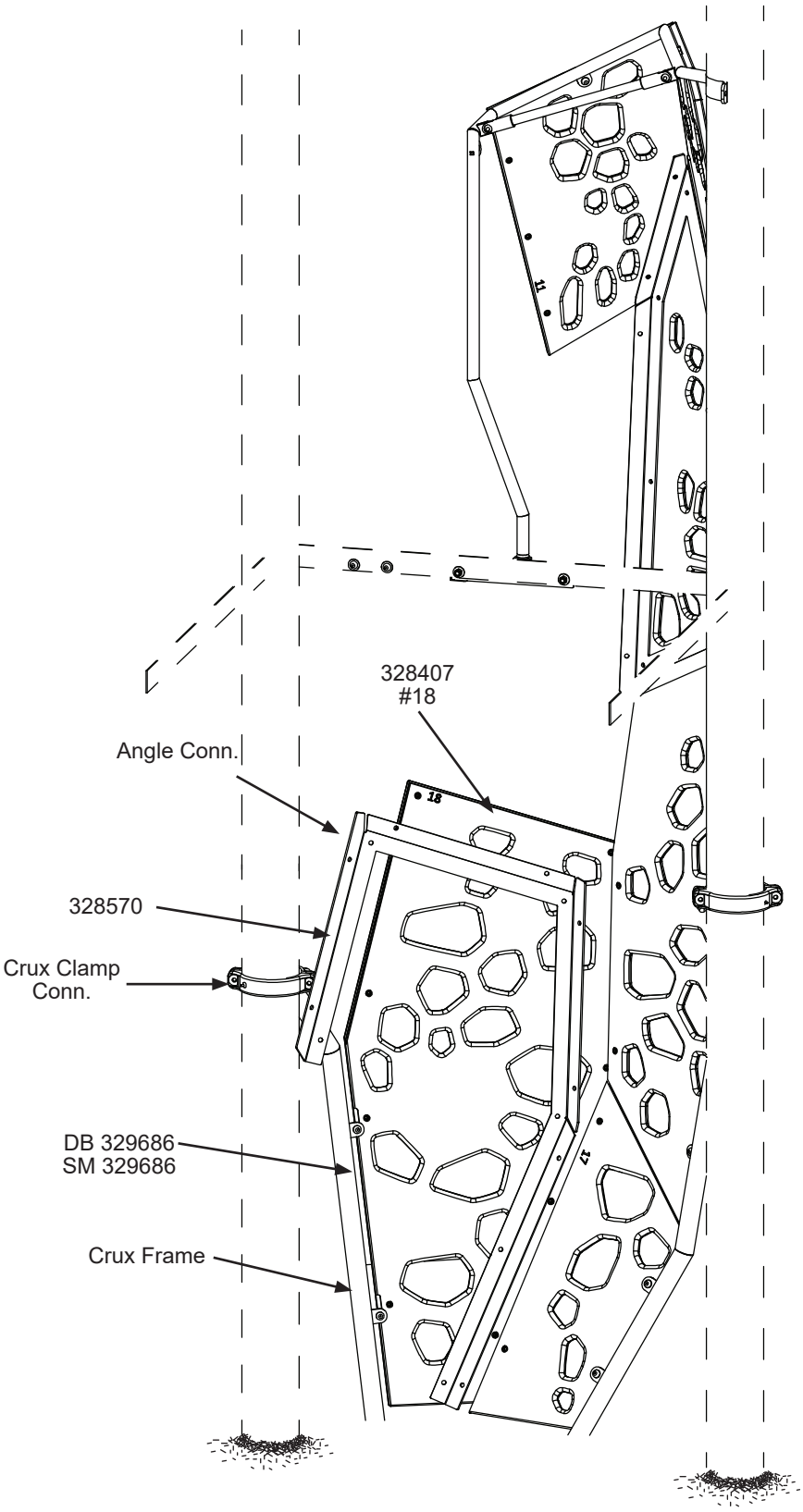


DETAIL ANGLE CONN.



DETAIL CRUX FRAME

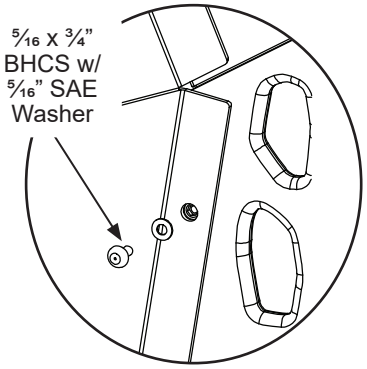


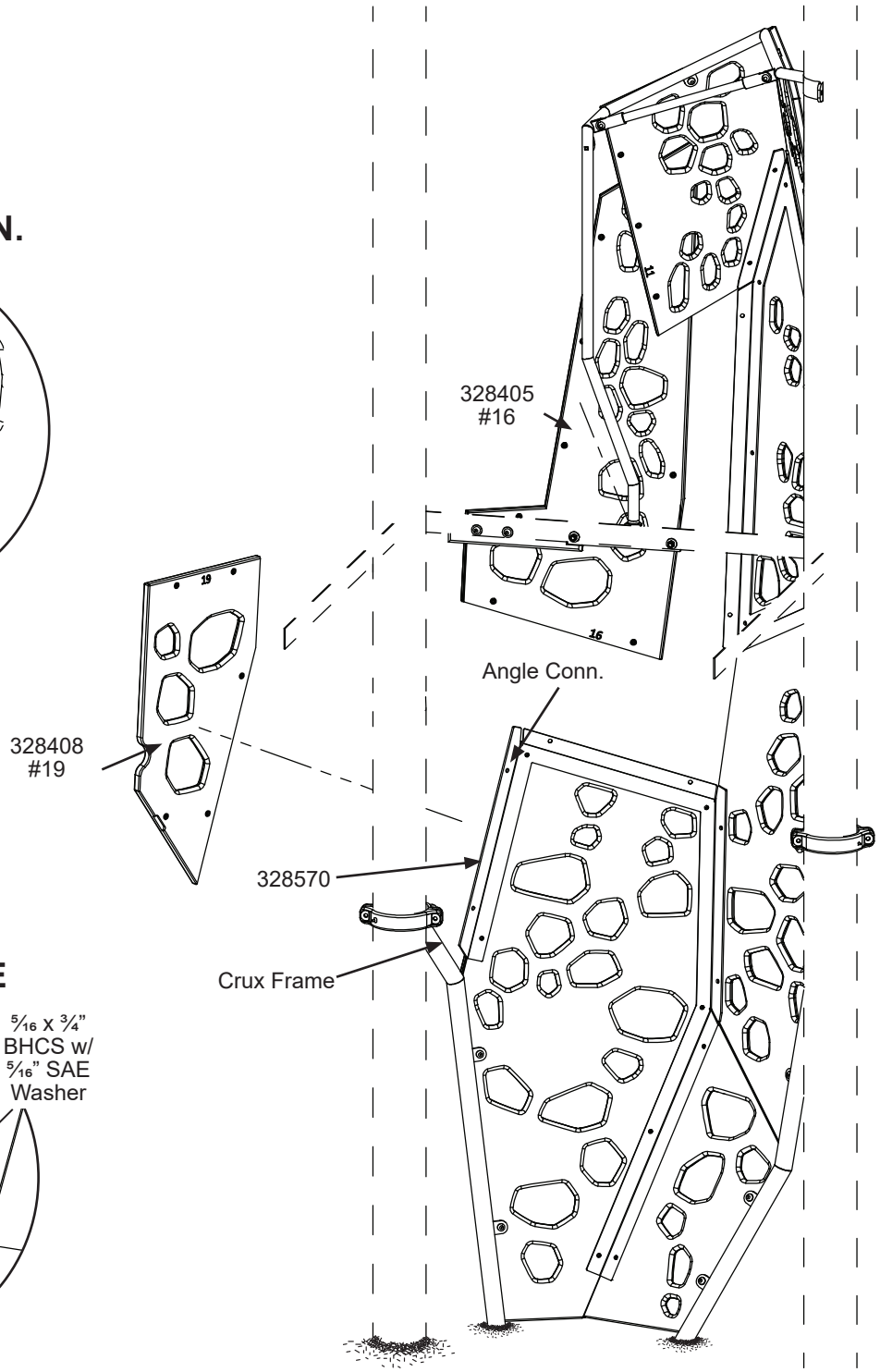


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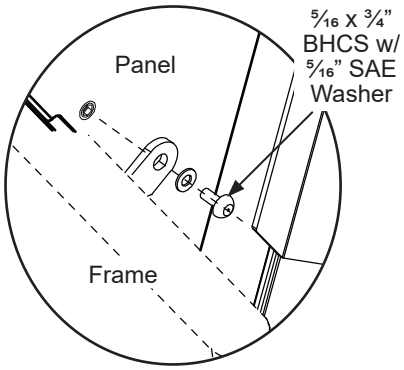
80” CRUX CLIMBER

DETAIL ANGLE CONN.





DETAIL CRUX FRAME

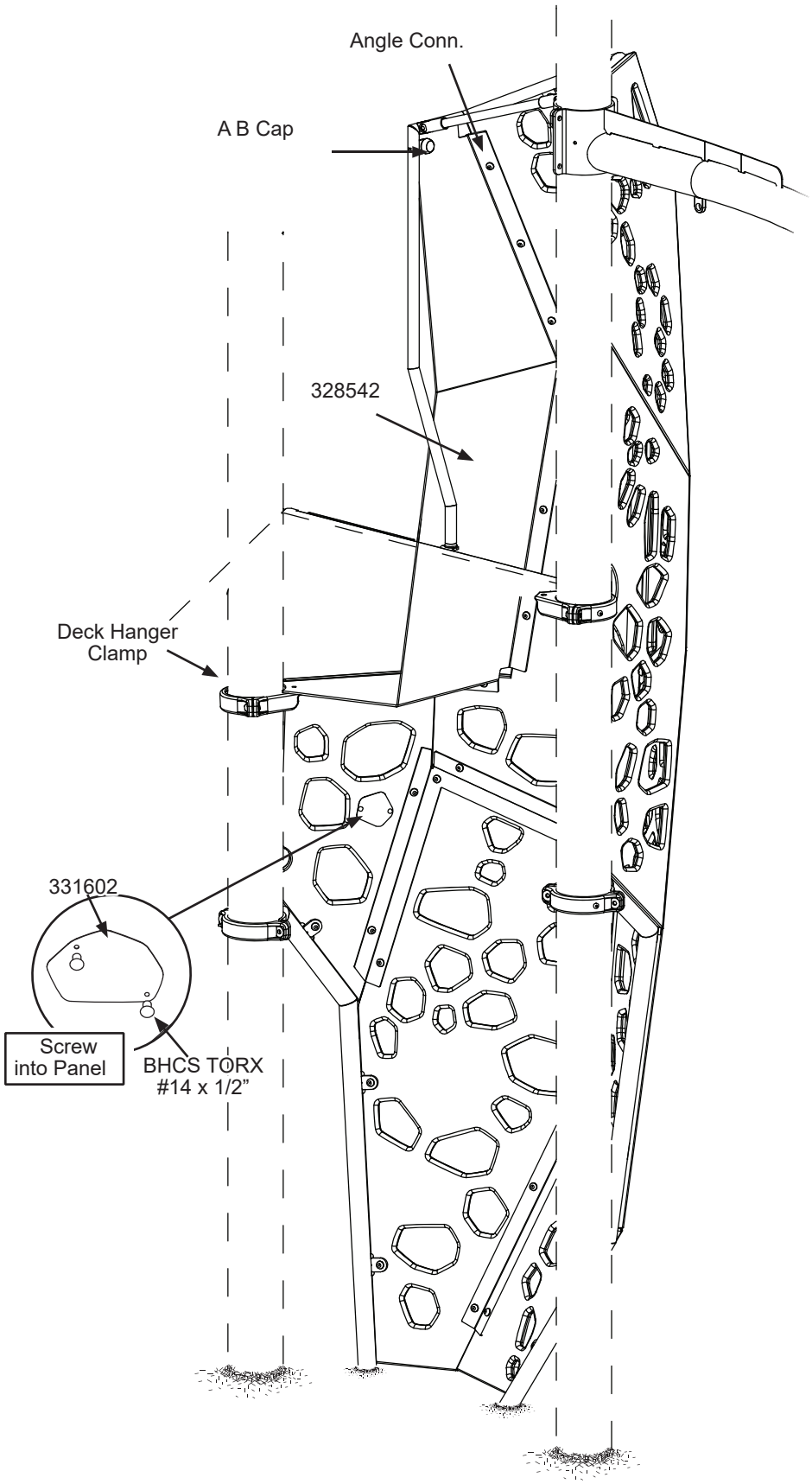


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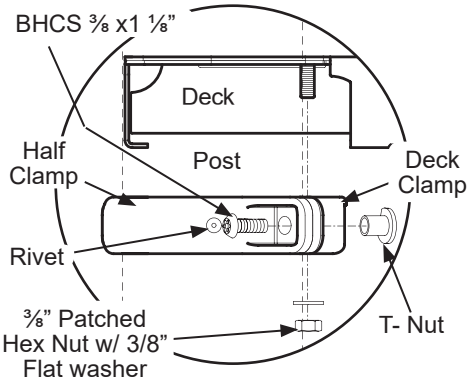
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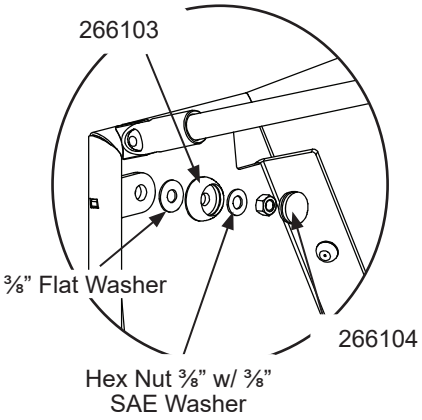
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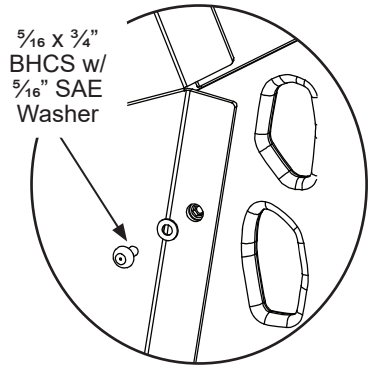
DETAIL DECK HANGER CLAMP



DETAIL A B CAP



DETAIL ANGLE CONN.



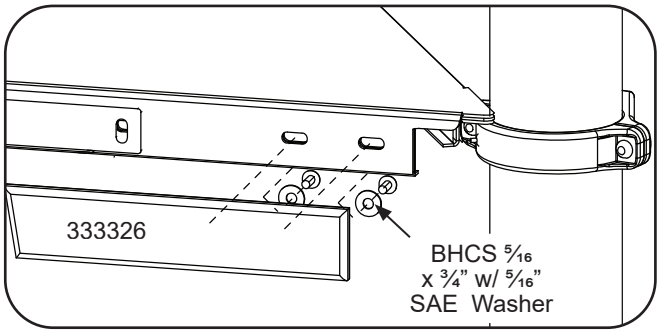
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

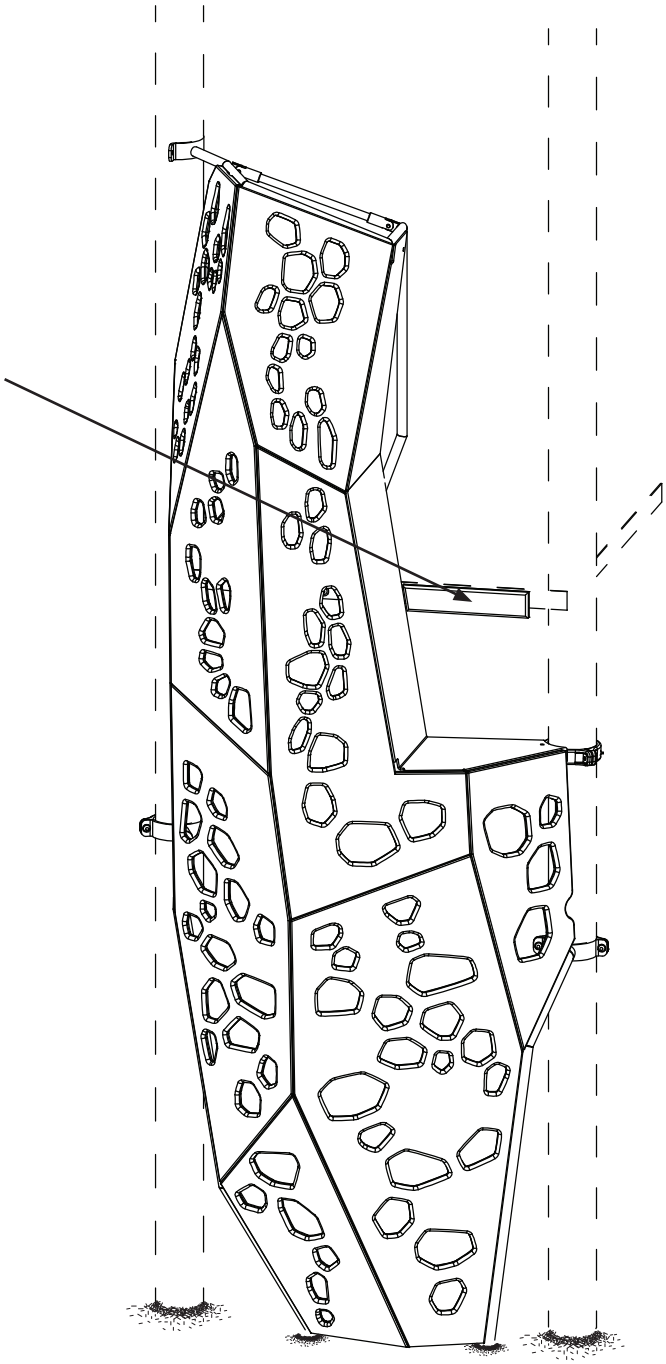
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80” CRUX CLIMBER

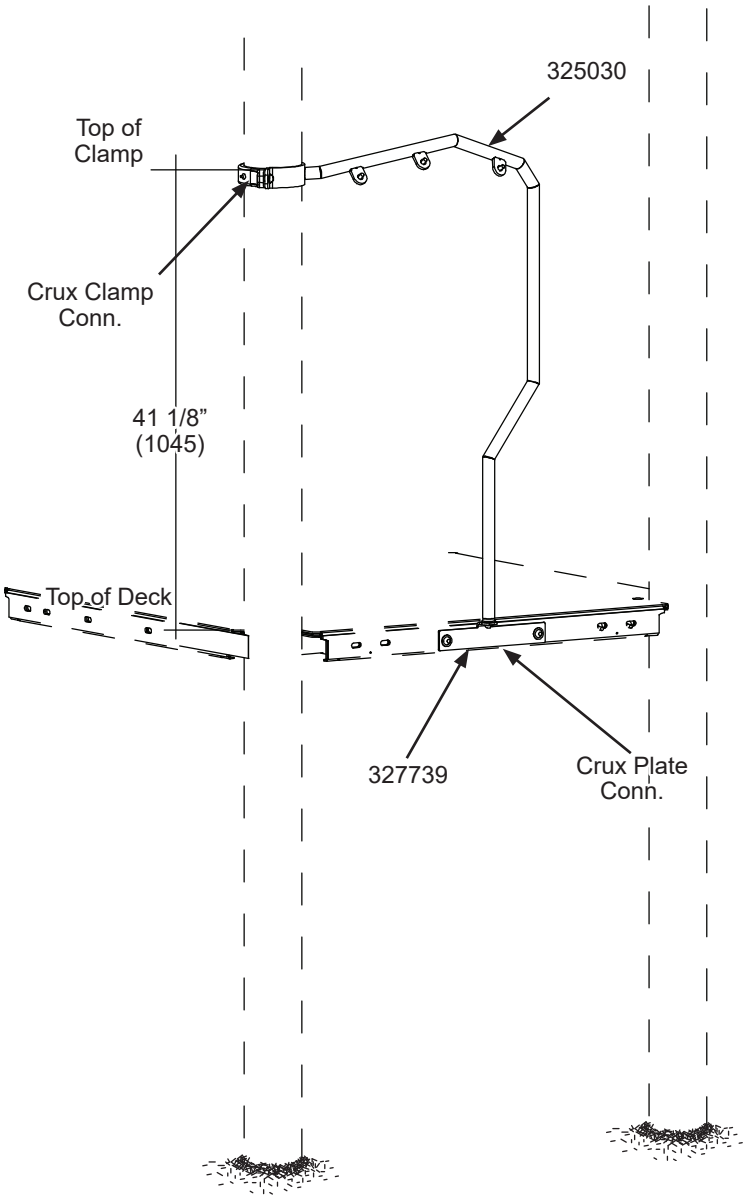
DETAIL
DECK CRUX CONNECTION



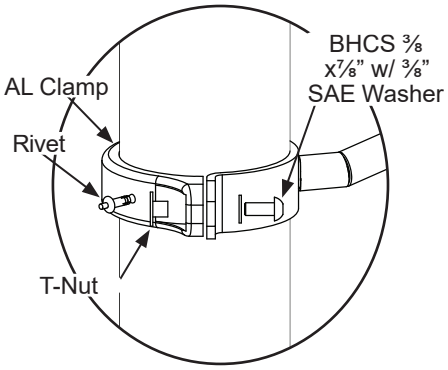


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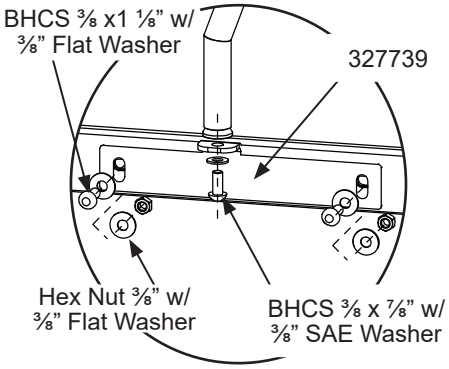
48” CRUX CLIMBER



DETAIL CRUX CLAMP CONN.



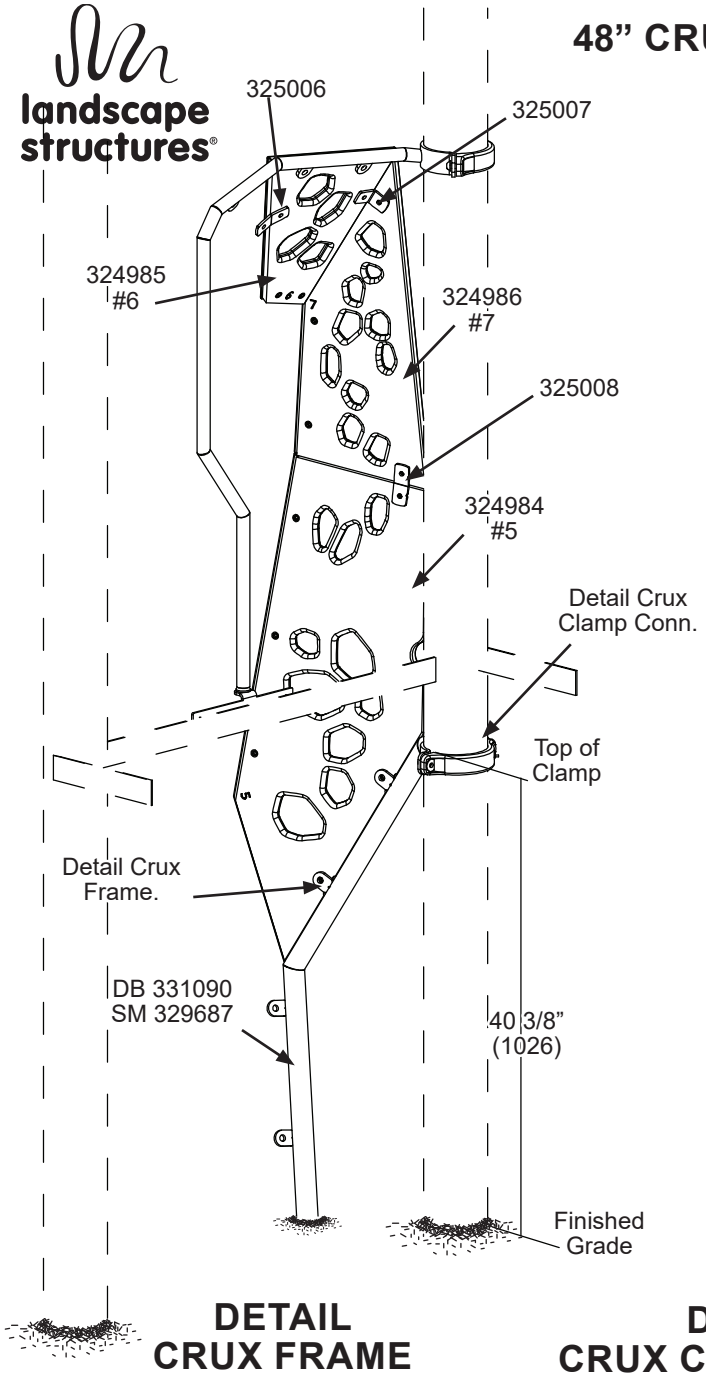
DETAIL CRUX PLATE



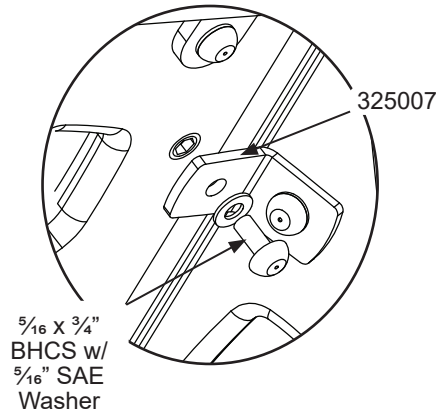
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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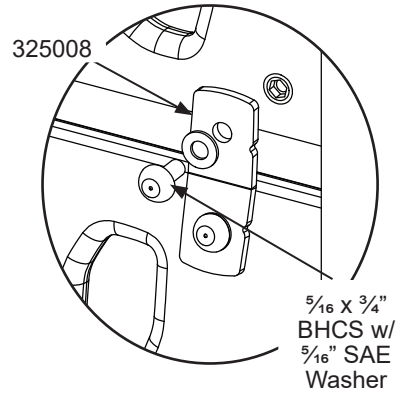
48” CRUX CLIMBER



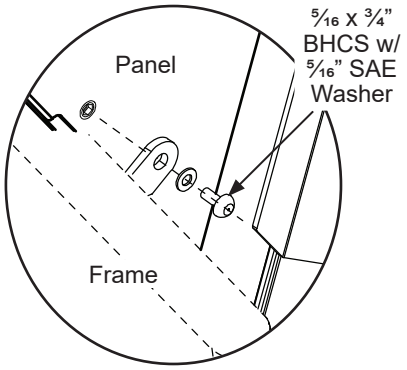
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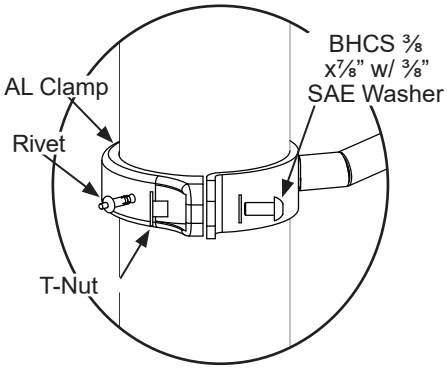
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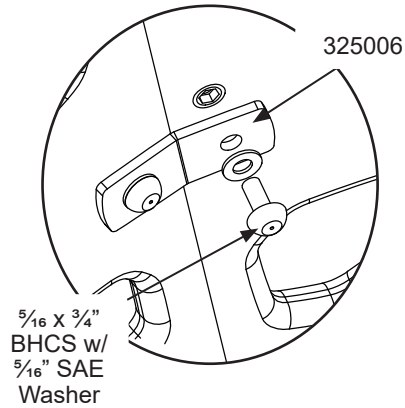
DETAIL CRUX FRAME



DETAIL CRUX CLAMP CONN.



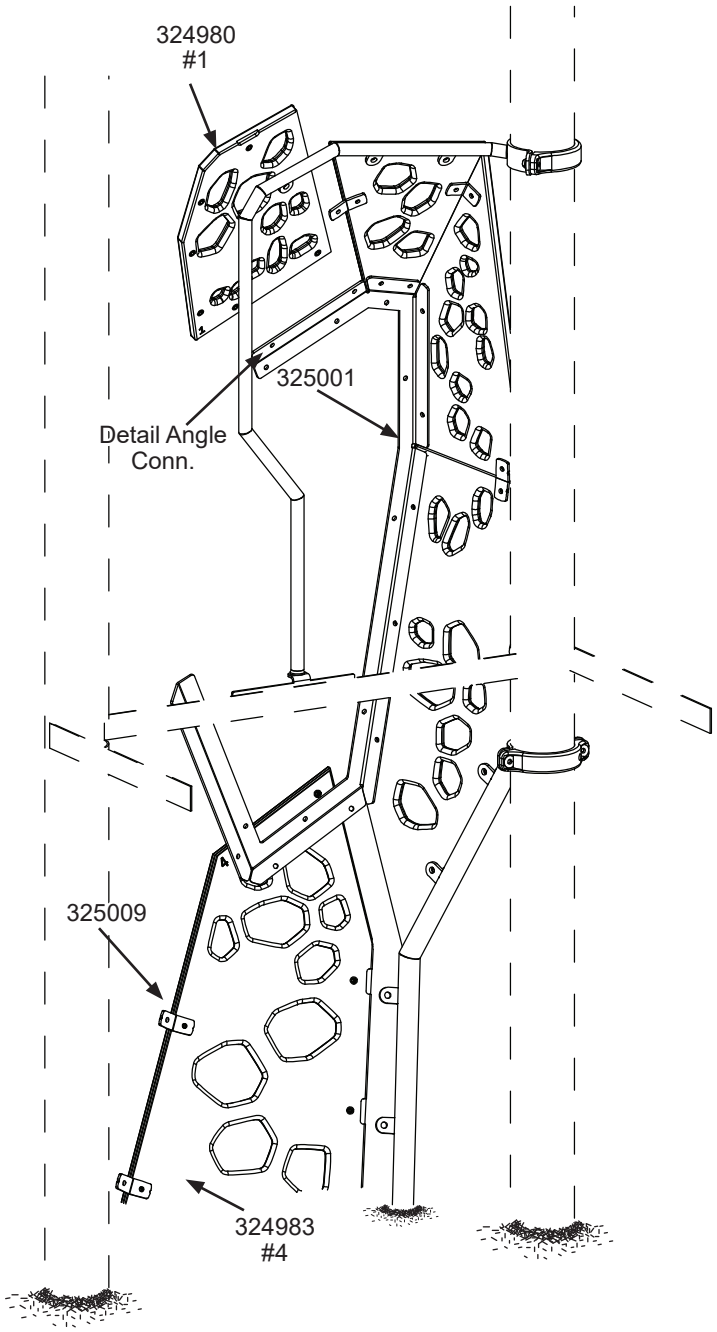
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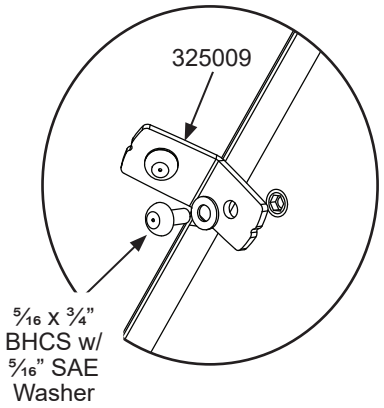
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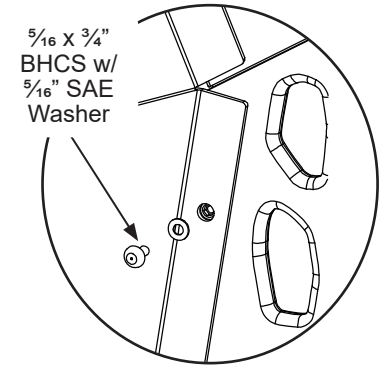
48” CRUX CLIMBER



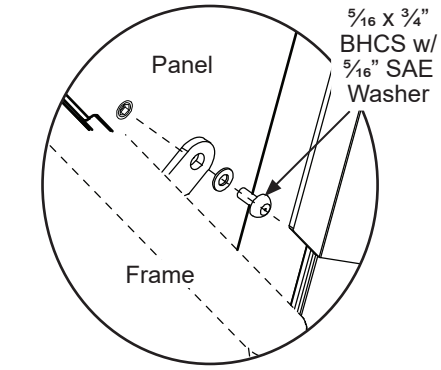
DETAIL 325009



DETAIL ANGLE CONN.



DETAIL CRUX FRAME



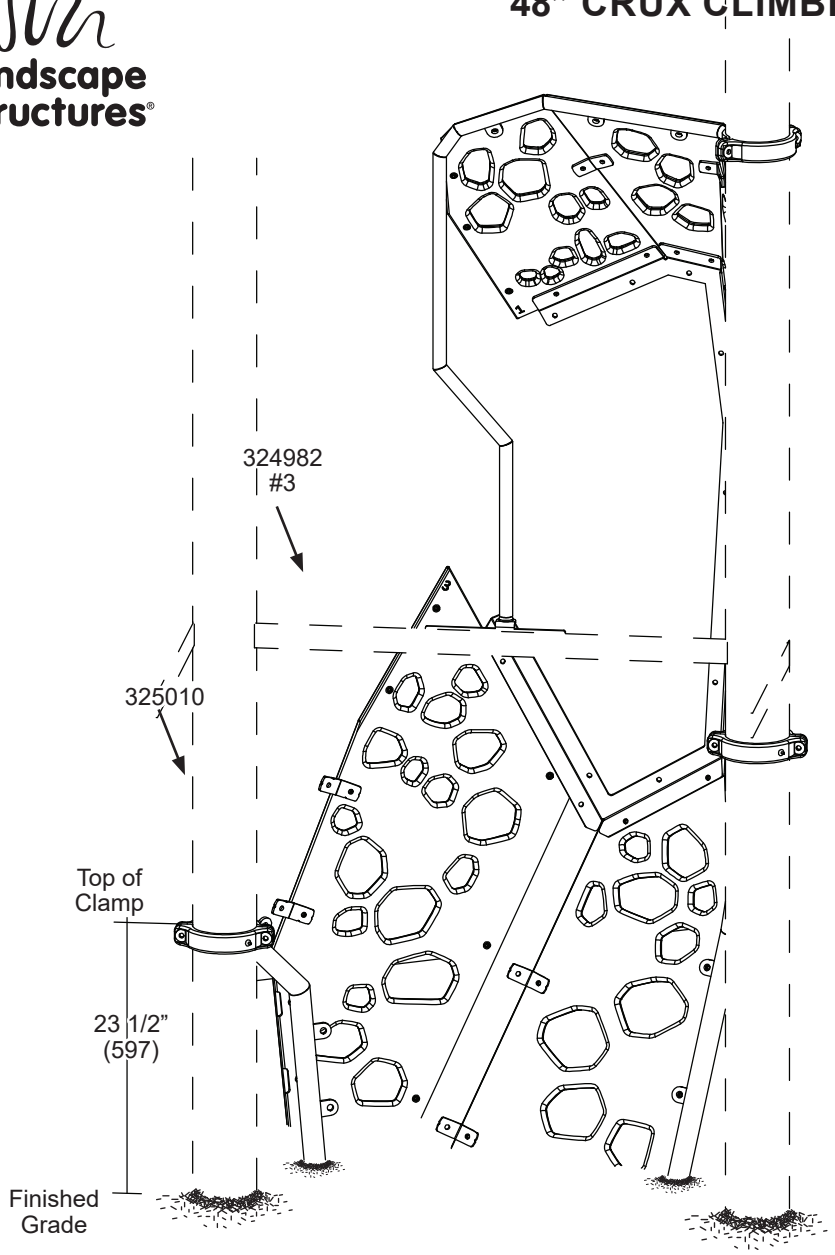
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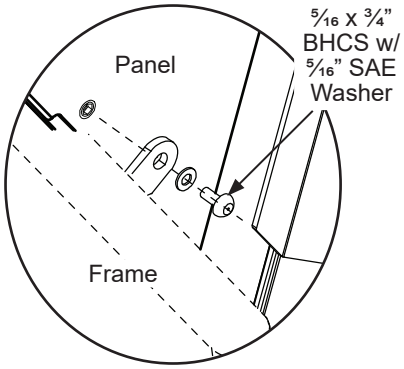
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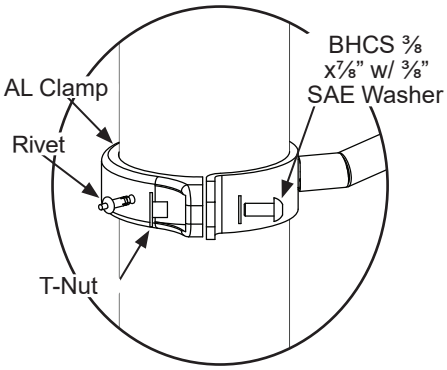
48” CRUX CLIMBER



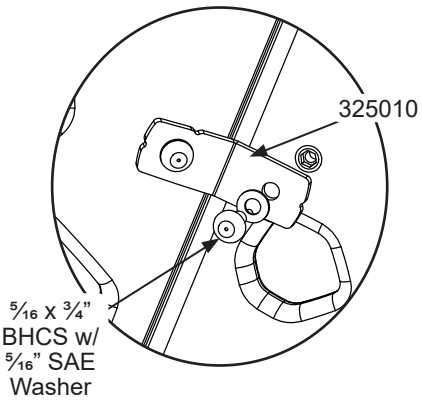
DETAIL
CRUX FRAME



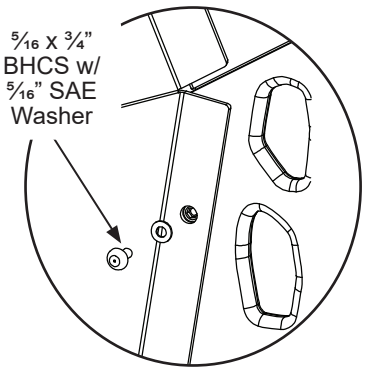
DETAIL
CRUX CLAMP CONN.



DETAIL
325010



DETAIL
ANGLE CONN.

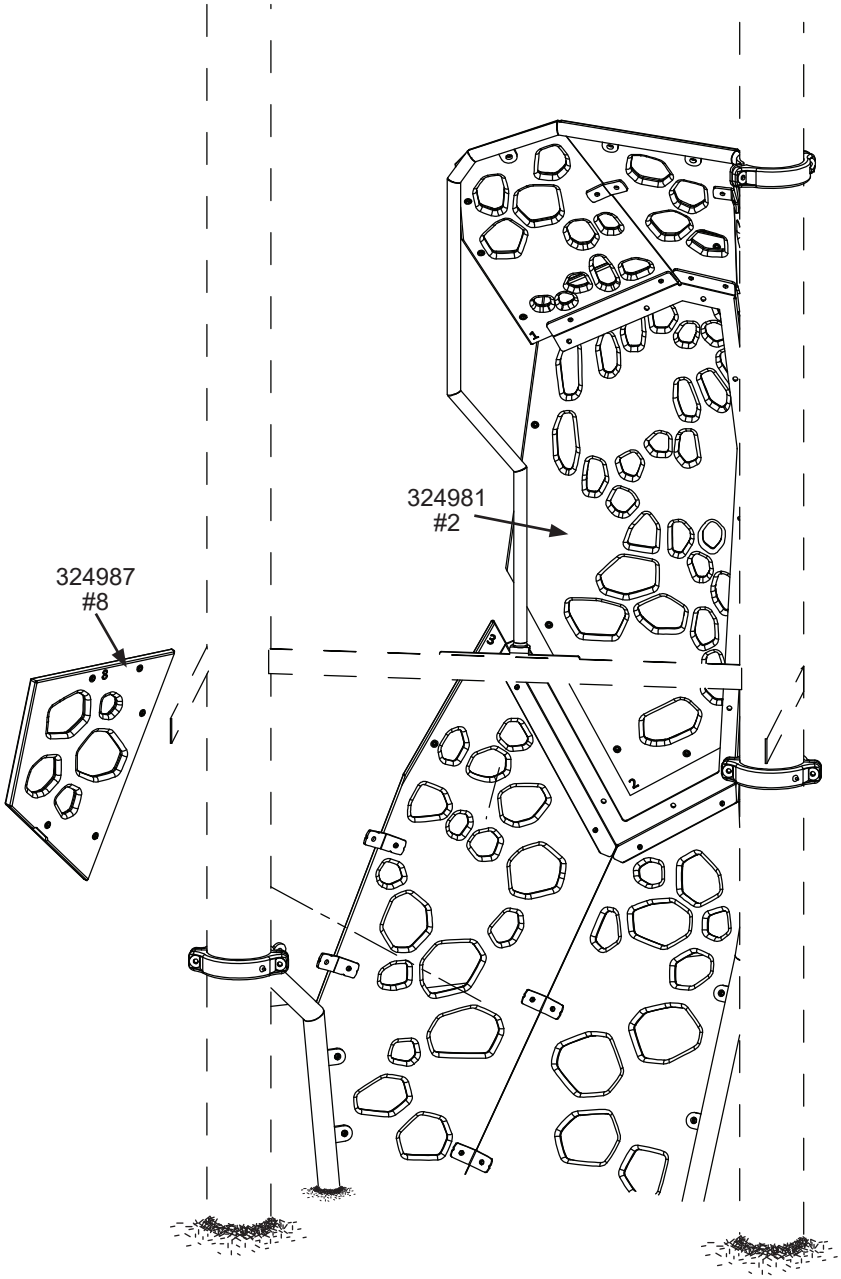


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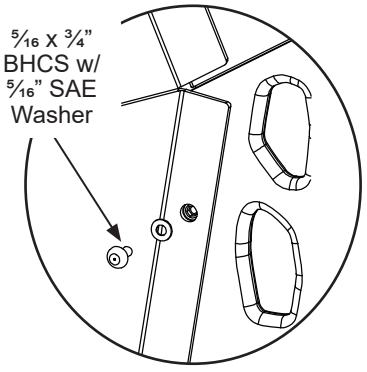
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48” CRUX CLIMBER



DETAIL ANGLE CONN.



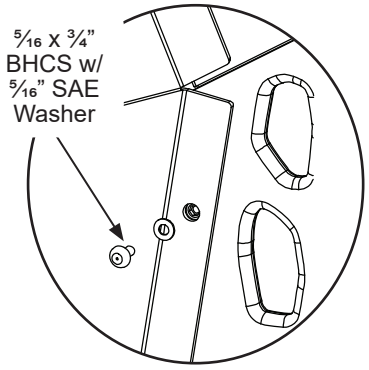
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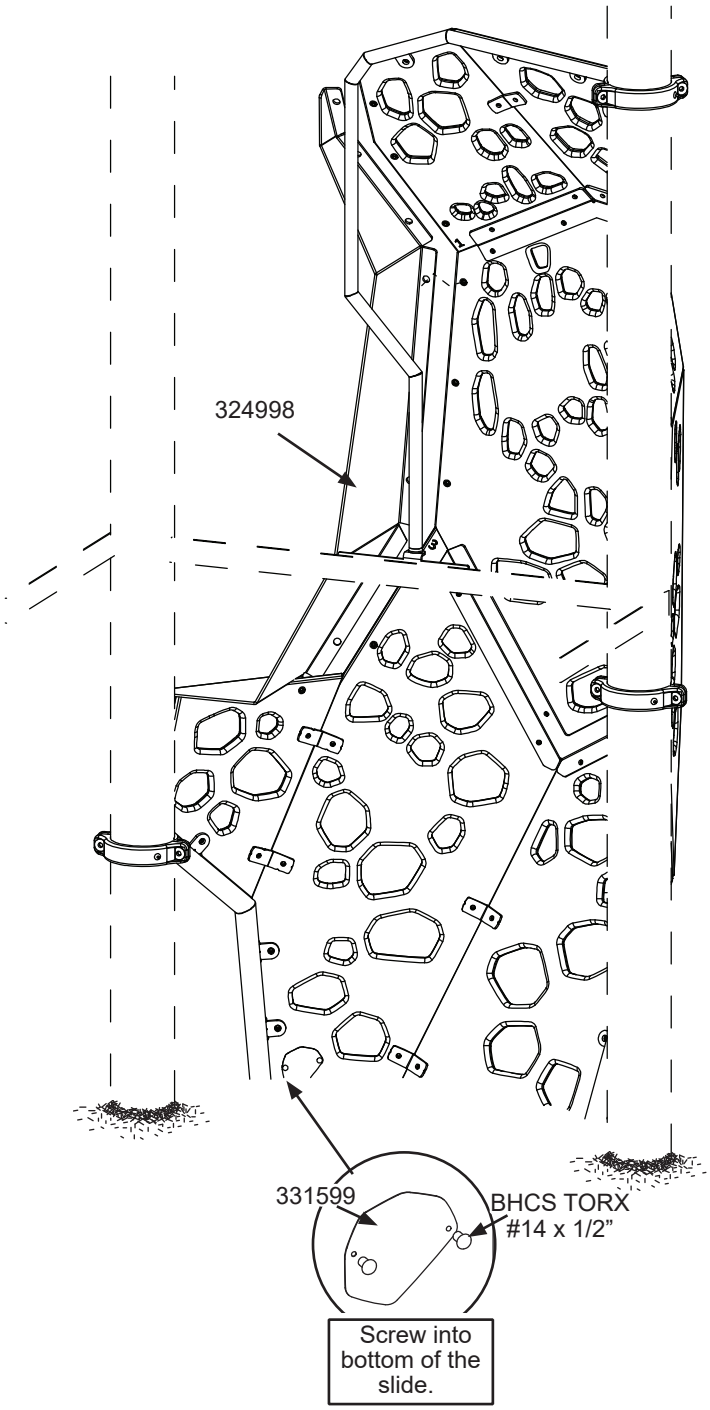
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48” CRUX CLIMBER

DETAIL ANGLE CONN.

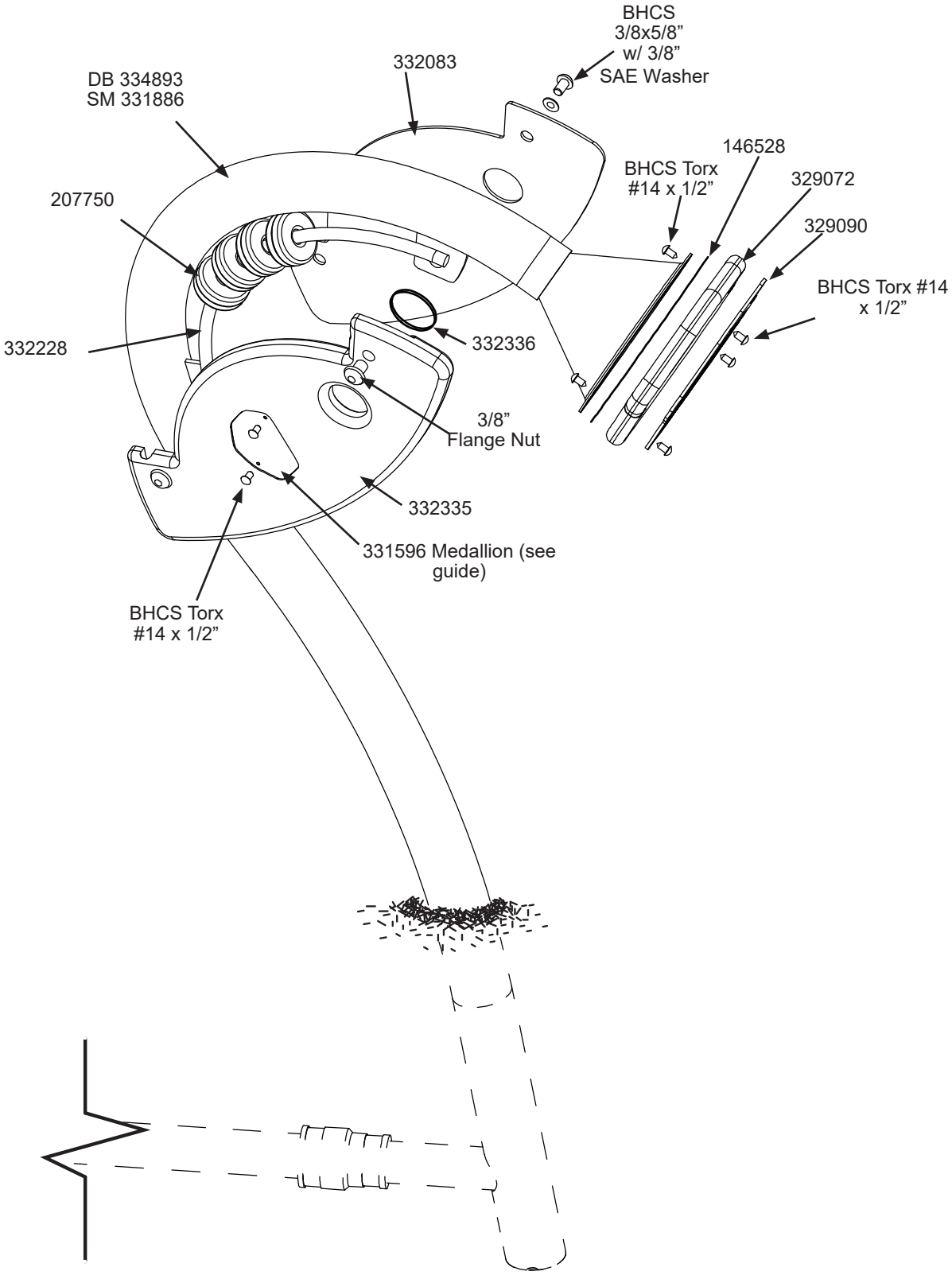




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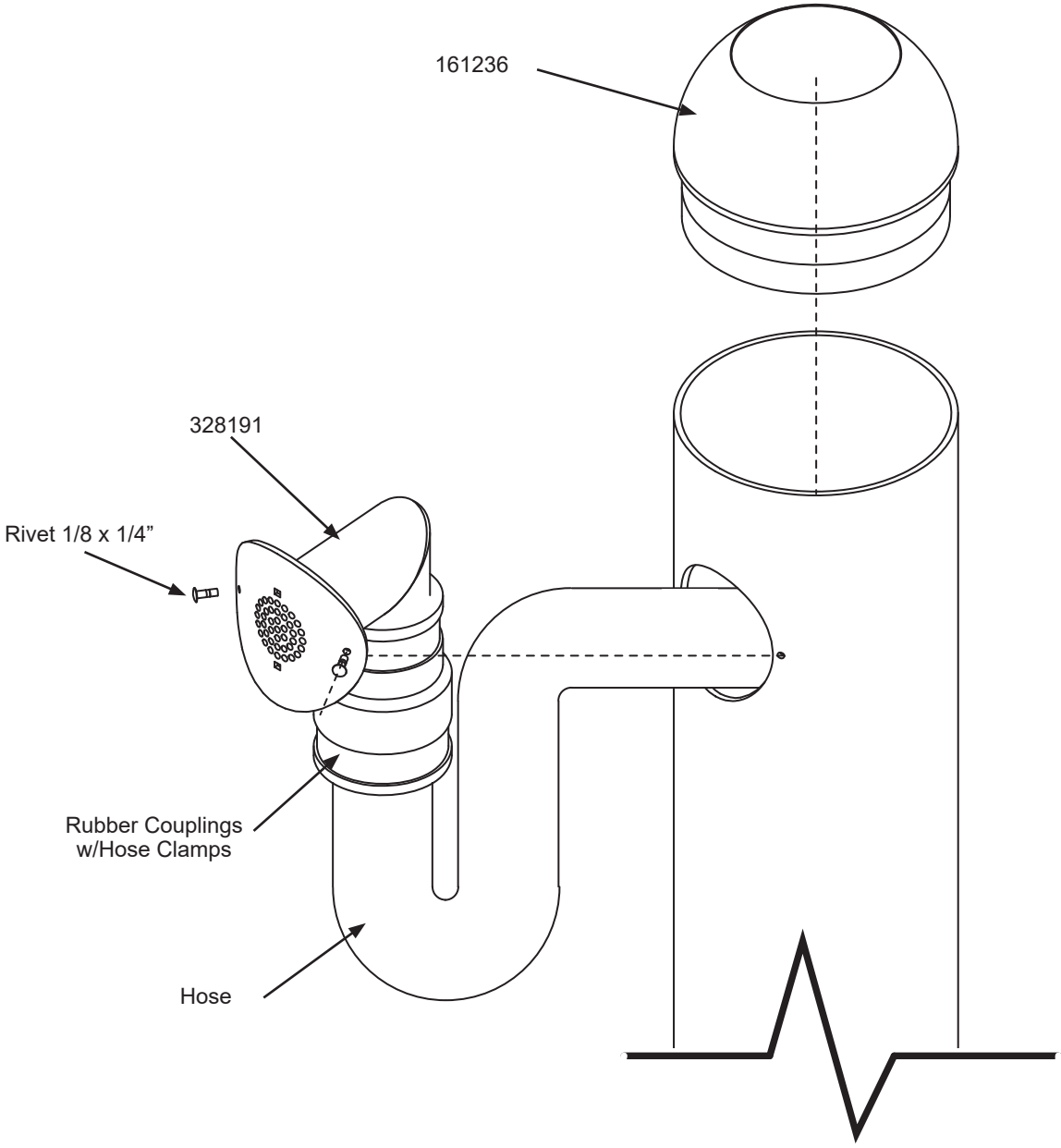
TALK TUBE SIGN



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TALK TUBE POST



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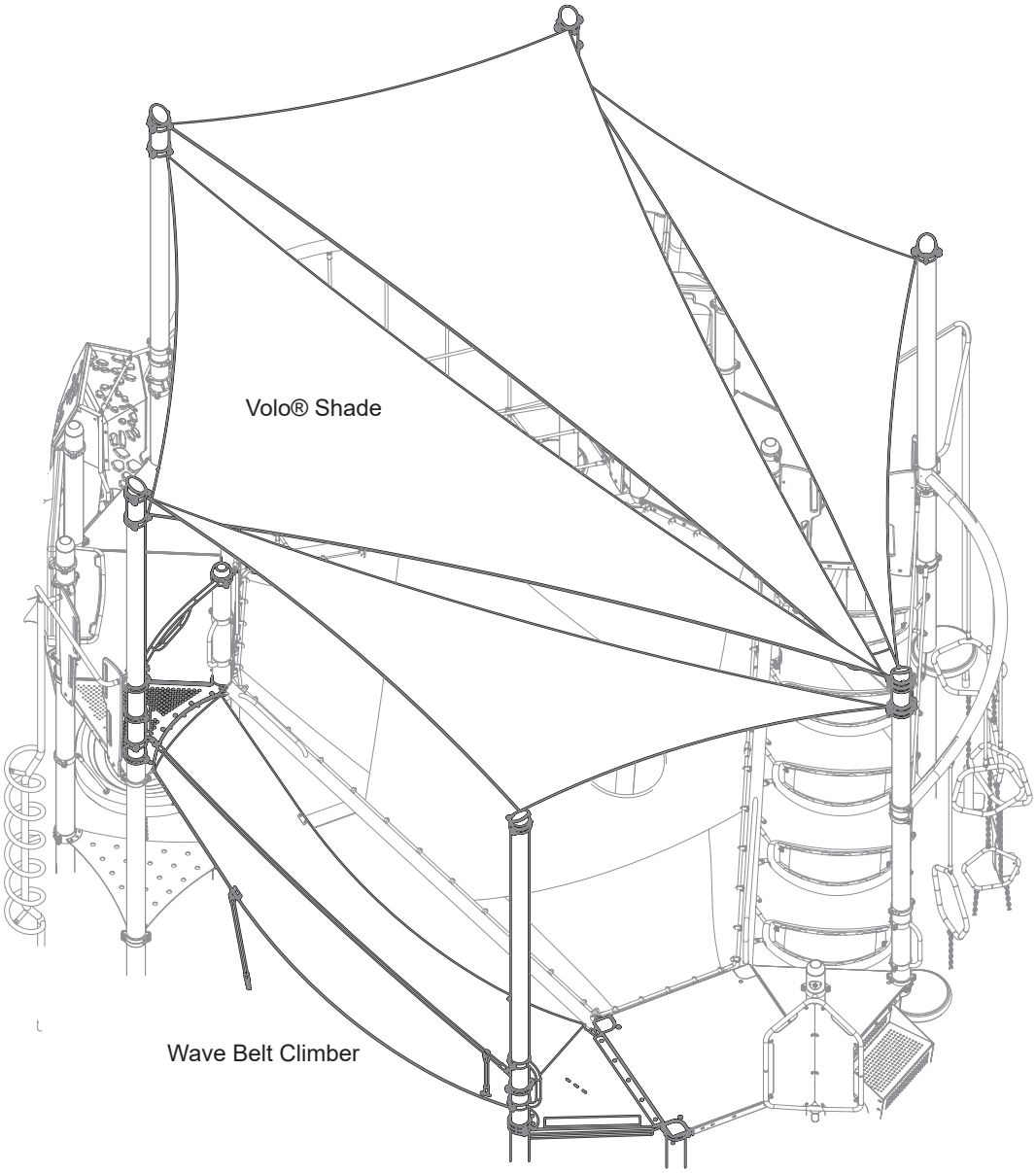
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FOR DIRECT BURY

POUR CONCRETE TO SECURE POST AND COMPONENTS. THE WAVE BELT CLIMBER AND SHADE (IF INCLUDED) MUST BE INSTALLED AFTER POSTS ARE SET IN CONCRETE. HOLE LOCATION A44 WILL BE SECURED AFTER THE WAVE BELT CLIMBER IS INSTALLED.

FOR SURFACE MOUNT

POST MUST BE ANCHORED IN PLACE BEFORE INSTALLING THE WAVE BELT CLIMBER. THE FOOTERS AT LOCATION A49 AND A50 WILL BE ANCHORED AFTER THE WAVE BELT CLIMBER IS SECURED.

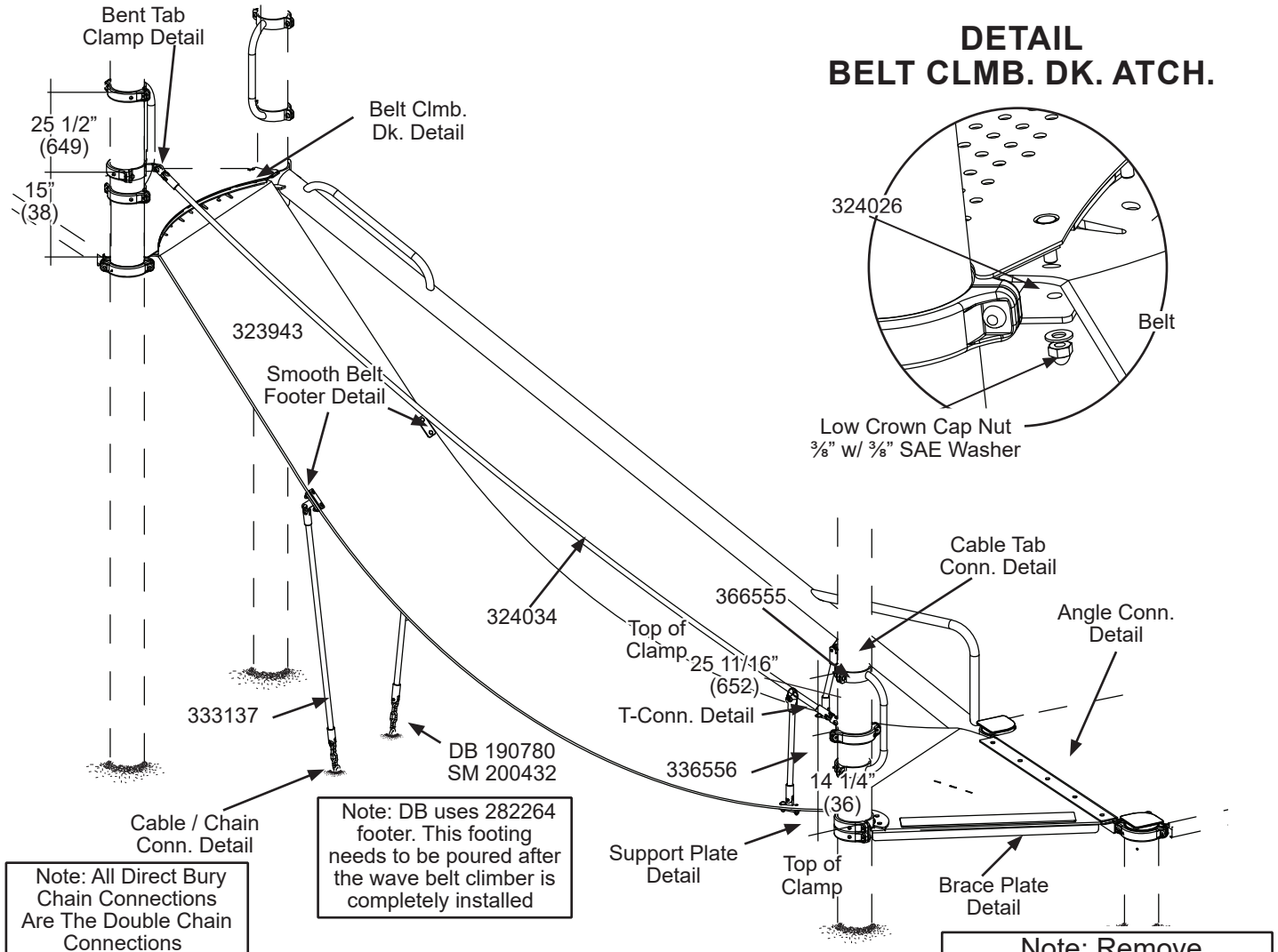


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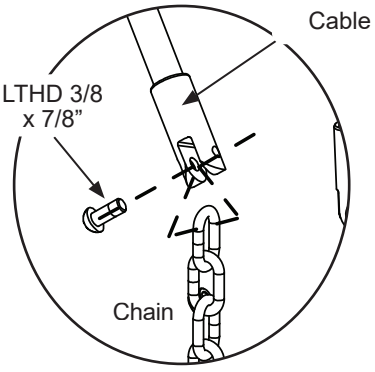
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WAVE BELT CLIMBER

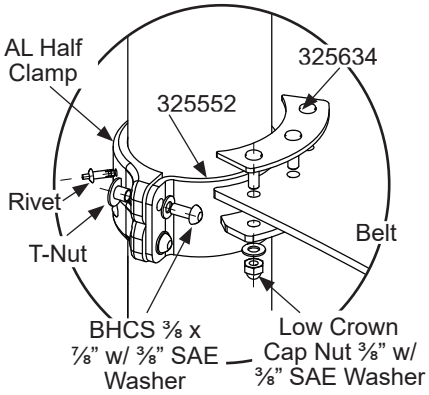


DETAIL BELT CLMB. DK. ATCH.

DETAIL CABLE / CHAIN CONN.



DETAIL PINCH PLATE CORNER



Cable #	Approx. Length
324034	131-5/8"
336556	14-15/16"
336555	10-7/8"
329875	117-7/16"
333137	40-7/8"

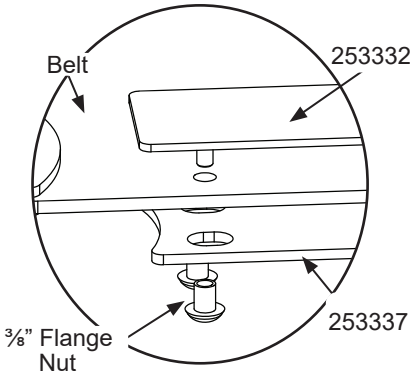
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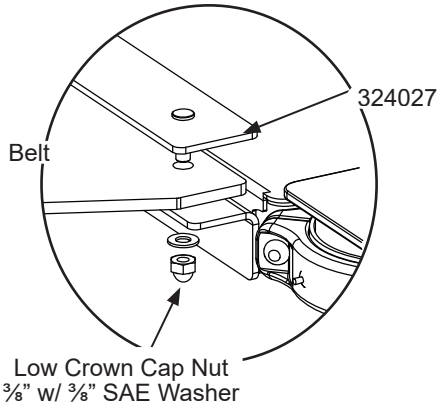
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WAVE BELT CLIMBER

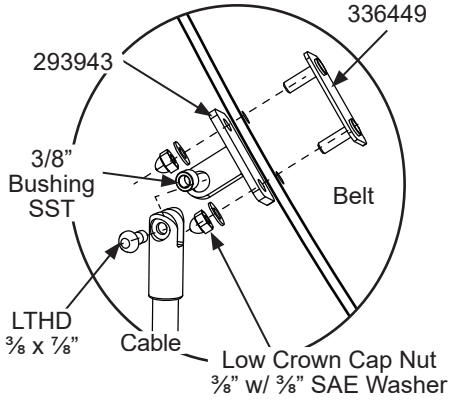
DETAIL BRACE PLATE



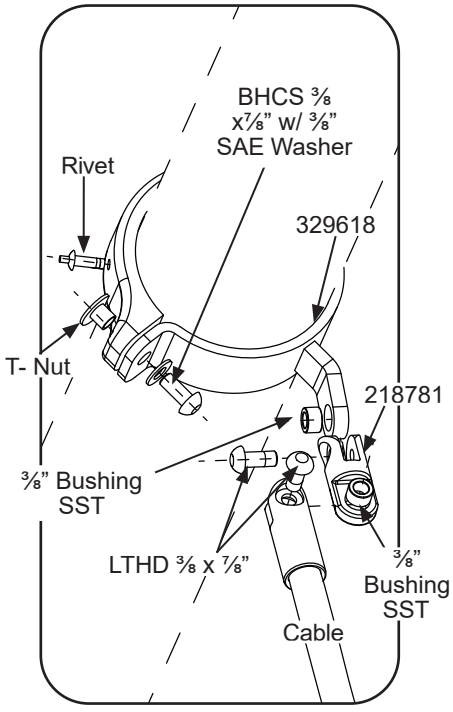
DETAIL ANGLE CONN.



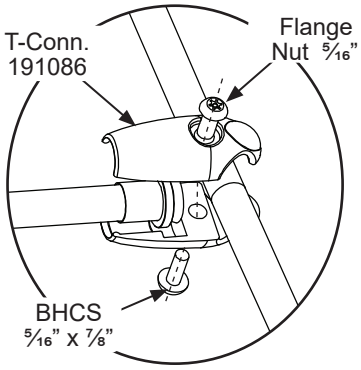
DETAIL SMOOTH BELT FTR.



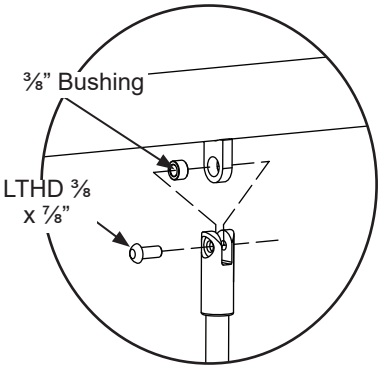
DETAIL BENT TAB CLAMP



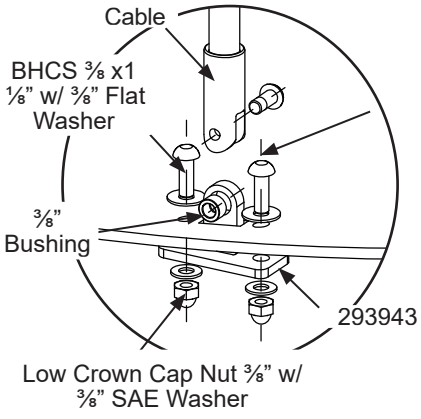
DETAIL T-CONN.



DETAIL CABLE TAB CONN.



DETAIL SUPPORT PLATE



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Parts List

Number	Product Name	QTY. SM	QTY. DB
324080	16.75i RUNG TUBE	7	7
325634	16i BELT CLAMP 2 PVC	1	1
324027	16i BELT CLAMP PVC	1	1
324029	16i BELT MOUNTING BRACKET	1	1
144696	1-STEP PVC	1	1
323727	33.375i RUNG TUBE W/CENTER TAB	1	1
326166	60i TALK TUBE POST SM	1	0
324026	80i BELT CLAMP	1	1
336555	80i BELT CLIMBER BEAM ROPE	1	1
333740	80i BELT CLIMBER DECK PVC	1	1
336556	80i BELT CLIMBER POST ROPE	1	1
324034	80i BELT CLIMBER ROPE	1	1
323943	80i CLIMBER BELT	1	1
333137	80i CLIMBER BELT ROPE	2	2
336449	80i CLIMBER BELT TOP PLATE PVC	2	2
335983	80i CLIMBER POST INSTALL BRACKET	1	1
325552	80i POST BELT CLAMP	1	1
329920	92i TALK TUBE POST DB	0	1
273409	ALPINE SLIDE EXIT SUPPORT 72i PB SM	1	0
264338	ALPINE SLIDE EXIT SUPPORT DB	0	1
264335	ALPINE SLIDE LOWER	1	1
273410	ALPINE SLIDE MID SUPPORT 72i PB SM	1	0
264339	ALPINE SLIDE MID SUPPORT DB	0	1
264337	ALPINE SLIDE UPPER 96i PB	1	1
324731	BELT CLAMP PLATE PVC	3	3
324730	BELT POST CLAMP	3	3
326037	BELT SUPPORT	2	2
326039	BELT TRI DECK	2	2
326114	BELT TRI DECK 2	1	1
253337	BELTING MENDING PLATE PVC	1	1
192748	Cable Ball Knot Half	12	12
161236	CAP POST LOGO PNT (POST)	1	1
108592	CAP STD FLSH MNT POST PVC	3	3
154460	CLIMB ACROSS POD	5	5
324898	CLIMBING PUCK	5	5
325437	CLIMBING PUCK MOUNTING PLATE	5	5
325428	CLIMBING PUCK ROPE CASTING	10	10
106022	CLMP DK HGR	20	20
105327	CLMP HALF 5i AL	102	102
113729	CLMP OFFSET 5i RAIL HGR	17	17
328477	CORKSCREW 80iDK 2iSM PNT	1	0
334437	CORKSCREW 80iDK/DB PNT	0	1
323801	CROSS POD PLT PNT	6	6
325044	CROSS POD ROTO	6	6
332536	Crux 48i Climber Perm Bumper	1	1
331084	Crux 48i Climber Tube Weld Stl 1 DB	0	1
331085	Crux 48i Climber Tube Weld Stl 2 DB	0	1
325001	Crux 48in Climber Corner Stl 1	1	1
324998	Crux 48in Climber Entrance Stl PVC	1	1
324980	Crux 48in Climber Panel 1	1	1
324981	Crux 48in Climber Panel 2	1	1
324982	Crux 48in Climber Panel 3	1	1
324983	Crux 48in Climber Panel 4	1	1
324984	Crux 48in Climber Panel 5	1	1
324985	Crux 48in Climber Panel 6	1	1
324986	Crux 48in Climber Panel 7	1	1
324987	Crux 48in Climber Panel 8	1	1
325028	Crux 48in Climber Tube Stl 1 SM	1	0
325029	Crux 48in Climber Tube Stl 2 SM	1	0
325030	Crux 48in Climber Tube Stl 3	1	1
328569	Crux 80i Climber Bracing Stl 1	1	1
328570	Crux 80i Climber Bracing Stl 2	1	1
328542	Crux 80i Climber Entrance Stl PVC	1	1
328400	Crux 80i Climber Panel 1	1	1
328401	Crux 80i Climber Panel 2	1	1
328402	Crux 80i Climber Panel 3	1	1
328403	Crux 80i Climber Panel 4	1	1
328404	Crux 80i Climber Panel 5	1	1
328405	Crux 80i Climber Panel 6	1	1
328406	Crux 80i Climber Panel 7	1	1
328407	Crux 80i Climber Panel 8	1	1
328408	Crux 80i Climber Panel 9	1	1
333326	Crux 80i Climber Perm Bumper	1	1
331088	Crux 80i Climber Tube Weld Stl 1 DB	0	1
331090	Crux 80i Climber Tube Weld Stl 2 DB	0	1
329099	Crux 80i Rope Hold	1	1
329686	Crux 80in Climber Tube Weld Stl 1 SM	1	0
329687	Crux 80in Climber Tube Weld Stl 2 SM	1	0
329688	Crux 80in Climber Tube Weld Stl 3	1	1
165338	CUST CHN 1/4i P70 6-3/4i	2	0
184271	CUST FTR SM PNT	22	0
130716	DBL POLY WAVE SLD 48/56	1	1
171211	DK TO BRDG CONN WELDT	2	2
325740	ENTRANCE HANDHOLD FRAME	1	1
156806	EVOS POST POD CASTING PNT	6	6
147958	FIREPOLE 48iDK DB PNT	0	1
147964	FIREPOLE 48iDK SM PNT	1	0
302950	FLEXMESH CAST HOOK COVER	50	50
334893	GOOSE NECK TALK TB SM	1	0
332335	GOOSENECK TALK TB PERM	1	1
327467	GRAB BAR W/5i CLAMPS PNT	6	6
131987	HOOD DBL SLD 34i X 37i	2	2
324032	INCLINED CURVED RUNG LADDER BEAM	1	1
324023	INCLINED CURVED SWIGGLE STIX BEAM	1	1
324587	LARGE LOOP	3	3
324288	LOOP CLIMBER BEAM	1	1
334114	LOOP CLIMBER CHAIN PVC	2	2
324289	LOOP CLIMBER ROPE 1	2	2
324290	LOOP CLIMBER ROPE 2	1	1
324291	LOOP CLIMBER ROPE 3	1	1
324292	LOOP CLIMBER ROPE 4	1	1
326272	LOWER BELT CLAMP 1 PVC	2	2
326275	LOWER BELT CLAMP 2 PVC	1	1
335881	LOWER BELT CROSS BOTTOM CLAMP PVC	1	1
335872	LOWER BELT CROSS CLAMP PVC	1	1
326112	LOWER BELT POST CLAMP	4	4
326127	LOWER BELT POST CLAMP 2	1	1
326269	LOWER POST BELT CLAMP PVC	4	4
323654	LSI FLEXX BEAM 1	1	1
323655	LSI FLEXX BEAM 2	1	1
323656	LSI FLEXX BEAM 3	1	1
323664	LSI FLEXX DECK PLATE	3	3
207750	MAGNET HOLDER ASM	4	4
332228	MAGNET ROD 11.625i R	1	1
332336	MAGNIFYING LENS	1	1
324586	MEDIUM LOOP	1	1
327091	MEDIUM LOOP 2	1	1
116917	MID SPRT 54i DB	0	1
116908	MID SPRT 64i DB	0	1
134567	MID SUPT 19-1/4i SM	1	0
134565	MID SUPT 29i SM	1	0
327187	MODIFIED ROPE CLAMP PNT	2	2
327343	NET CLAMP WITH BENT TAB PNT	2	2
324906	OODLE HANGOUT ROPE	4	4
172045	OODLE SWING BUMPER	2	2
282264	OODLE SWING FOOTER PLATE PNT	0	6
193982	OODLE SWING SEAT	1	1
100583	PBOLT 40-7/16i AL PNT	2	2
328290	PENTAGON SLIDER	3	3
327388	PERIMETER CABLE 203i	1	1
177932	POD BOLT PLATE	5	5
107447	POST FLSH 17-3/8i STL SM	3	0
107492	POST FLSH 49-3/8i STL DB	0	3
107525	POST W/CAP PB 124i STL DB	0	8
107484	POST W/CAP PB 126i STL SM	2	0
112369	POST W/CAP PB 134i STL SM	4	0
142125	POST W/CAP PB 156i STL DB	0	2
124091	POST W/CAP PB 164i STL DB	0	4

107472	POST W/CAP PB 92i STL SM	8	0
161898	PROPRIETARY NET CLMP	8	8
329618	ROPE CLAMP WITH BENT TAB	6	6
218781	ROPE SWIVEL TAB	8	8
154461	ROTO POST E-POD	6	6
293943	RPL ROPE CONN PL PNT	4	4
173611	RUBBER RDCR CPLG W/2CLMPS	2	2
324190	RUNG LADDER ROPE #1	1	1
324191	RUNG LADDER ROPE #2	1	1
324192	RUNG LADDER ROPE #3	1	1
324193	RUNG LADDER ROPE #4	1	1
324195	RUNG LADDER ROPE #5	1	1
324196	RUNG LADDER ROPE #6	1	1
324197	RUNG LADDER ROPE #7	1	1
325094	SADDLE ROPE	5	5
329321	SADDLE ROPE 2	5	5
329347	SADDLE ROPE 3	1	1
329875	SADDLE ROPE 4	2	2
326105	SADDLE ROTO POD	5	5
331886	SAY HELLO TO A FRIEND TALK TUBE	0	1
247871	SINGLE ROPE FOOTER HDG	0	10
325896	SLIDE DECK GRIPX	1	1
326169	SLIDE DECK KICK PLATE PNT	1	1
325689	SLIDE DECK PVC	1	1
324585	SMALL LOOP	1	1
327084	SMALL LOOP 2	1	1
331471	Smart Play BK Pod Net Asm	1	1
327784	SMART SHADE FIREPOLE HANDHOLD	4	4
327782	SMART SHADE STANDARD HANDHOLD	6	6
255135	SPARE PARTS KIT PB	1	1
324870	SPRT CROSS BAR OODLE HANGOUT	2	2
151013	SPRT DBL POLY SM 4-1/2i	2	0
150941	SPRT POLY SLD DB PNT ASM	0	2
181376	SPRT XFR SM STEP ANG PNT	1	0
181374	SPRT XFR STEP DB PNT	0	1
145656	SQ DECK PB	3	3
325265	STL HOOD CLAMP W/TAB 30 DEG	1	1
253332	STUD MENDING PLATE PVC	1	1
324239	SWIGGLE KNOTS ROPE #1	1	1
324240	SWIGGLE KNOTS ROPE #2	1	1
324241	SWIGGLE KNOTS ROPE #3	1	1
324242	SWIGGLE KNOTS ROPE #4	1	1
324243	SWIGGLE KNOTS ROPE #5	1	1
329072	TALK TUBE COVER DIGIFUSE PERM	1	1
328191	TALK TUBE RECEIVER	1	1
191086	T-CONNECTOR	30	30
145663	TRI DECK EXT	4	4
322278	TUBE RUNG CAP CAST	16	16
324733	UNDER BELT 1	1	1
324736	UNDER BELT 2	1	1
326116	UNDER BELT 3	1	1
327469	UPPER CROSSBAR WITH GRAB BAR PNT	1	1
326440	VERTICAL CABLE 37-1/2i ASM	2	2
334879	VOLO™ FLEXX NET	1	1
331599	BLUEJAY DGI	1	1
331602	EASTERN BLUEBIRD DGI	1	1
331603	NORTHERN CARDINAL DGI	1	1
331637	ROUTE AND BIRD FIND PANEL 1 DGI	1	1
331638	ROUTE AND BIRD FIND PANEL 2 DGI	1	1
329090	TALK TUBE DGI AL PL	1	1
332083	TALK TUBE MAGNET PANEL DGI	1	1
331604	AMERICAN GOLDFINCH DGI	1	1
331596	HUMMINGBIRD DGI	1	1
331598	KINGFISHER DGI	1	1
331600	LILAC BREASTED ROLLER DGI	1	1
200437	CHAIN 20i	0	3
200439	CHAIN 25i	0	2
200440	CHAIN 27.5i	0	1
200445	CHAIN 40i	0	2
200432	CHAIN 5i	10	0
179682	CHN 1/4i P70 13i	1	0
194074	CHN 1/4i P70 14i LG	2	1
198497	CHN 1/4i P70 17-5/16i LONG	1	2
190780	CHN 1/4i P70 18-9/16i	0	10
196890	CHN 1/4i P70 24-1/4i	2	0
196891	CHN 1/4i P70 25-1/2i	0	1
315792	CHN 1/4i P70 3i	1	0
136721	CHN 1/4i P70 9-1/4i	3	0
326126	.1875 BRACKET 120 DEG PNT	2	2
100292	BHCS 6L LTHD 3/8x1-1/4SST	54	54
237639	BHCS 6LP #10 x 1/2i SST W/O PATCH	39	39
162374	BHCS 6LP 1/4 X 3/4i SST	32	32
100171	BHCS 6LP 3/8x1-1/2iSSTPAT	12	12
100198	BHCS 6LP 3/8x1-1/8i SST	148	148
123224	BHCS 6LP 3/8x1-11/16i SST	7	7
113027	BHCS 6LP 3/8x1-3/8i SST	30	30
100199	BHCS 6LP 3/8x2-1/4i SST	3	3
100200	BHCS 6LP 3/8x3-1/2i SST	4	4
124460	BHCS 6LP 3/8x3-3/4i SST	6	6
100195	BHCS 6LP 3/8x5/8i SST	34	34
100196	BHCS 6LP 3/8x7/8i SST	247	247
223807	BHCS 6LP 5/16i -18 X 3/4i SST	168	168
132626	BHCS 6LP 5/16x7/8i SST	15	15
100201	BHCS 6LP 5/8x1-1/2i SST	1	1
100203	BHCS 6LP 5/8x2-1/4i SST	3	3
100290	BHCS 6LP LTHD 3/8x7/8iSST	80	80
157704	BHCS 6LP LTHD 7/16x2i SST	5	5
129671	BHCS TORX #14 x 1/2 SST	16	16
127463	BIT HEX TPP T27 (TORX)	2	2
266103	BOLT CAP BOT PART A CARBON	1	1
266104	BOLT CAP TOP PART B CARBON	1	1
138915	BOLT LINK SST	36	36
157224	BSHG .439i ID X 1.156 SST	5	5
111442	BUSH RUBBER #871	12	12
156962	BUSHING 5/8 OD X 1/2 LG SST	40	40
127179	BUSHING 5/8 OD X 3/8 LG SST	74	74
162729	CONN PLUG HALF ABS	10	10
327739	Crux 48i Deck Mount Bracket	2	2
325006	Crux 48in Climber Bracket Stl 1	1	1
325007	Crux 48in Climber Bracket Stl 2	1	1
325008	Crux 48in Climber Bracket Stl 3	1	1
325009	Crux 48in Climber Bracket Stl 4	2	2
325010	Crux 48in Climber Bracket Stl 5	2	2
328577	Crux 80i Climber Bracket Stl 1	1	1
328578	Crux 80i Climber Bracket Stl 2	1	1
176046	EXP ANCHOR 1/2x3-3/4i ZP	148	0
148686	FHCS 6LP 3/8x3/4i SST PAT	4	4
100353	FLG NUT 6LP 3/8-16 SST	44	44
175006	FLG NUT 6LP 5/16-18 SST	65	65
172311	HDW PB FLUSH PST CAP ATCH	3	3
336012	HDW PKG INSTALL BRACKET	1	1
100321	NUT HEX PATCH 3/8-16 SST	21	21
100322	NUT HEX STD 1/2-13 SST	148	0
100327	NUT HEX STD 3/8-16 SST	62	62
100349	NUT L/C CAP 3/8-16 SST	110	110
100351	NUT MOD-T 3/8-16 SST	218	218
100611	RIVET 1/4X3/8i DRV AS	3	3
100610	RIVET 1/4X5/8i Drive AS	108	108
100605	RIVET 1/8X1/4i BLIND AA	6	6
323145	RUNG ROPE CLAMP CAST	18	18
326679	SADDLE ROPE CLAMP PLATE	10	10
146528	SCREEN BUG TALK TUBE	1	1
178586	SPACER 1.315 OD 1-5/8 AL	5	5
334488	SPACER SST 1.315iOD X 3/8i LG PNT	2	2
188102	T25 TORX BIT ANTI THEFT	2	2
148081	THD ROD 3/8X4 1/2 SST	2	2
279062	THD ROD 3/8x4-3/4 SST PAT	2	2
132443	TUBE 1-3/8ODX1-11/16 PNT	4	4
113468	TUBE 7/8iOD X 1-11/16i AL/PNT	14	14
173612	TUBE PLAST 1.500ID	50	50
100363	WASHER FLAT 1/2i SST	148	0
100362	WASHER FLAT 3/8i SST	154	154

100365	WASHER FLAT SAE 3/8i SST	423 .. 423
223956	WASHER FLAT SAE 5/16i SST	114 .. 114
129500	WASHER FLAT SAE 5/8i SST	1 1
332593	WASHER SAE #10 SST	24 24
338903	LSI FLEXX INSTALL TOOL ASM	1 1

Specifications

Installation Time: DB - 96 Hours

SM - 96 Hours

Concrete Req.: DB - 73 Cubic Feet

Weight: DB - 5570 lbs

SM - 5305 lbs

Fall Height: DB - 88" (2, 24 m)

:

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

Bug Screen: Weave .011 (0,28 mm) Ga. charcoal fiberglass screen.

Bumper: Molded from U.V. stabilized black EPDM rubber encapsulating 11 GA (.120") (3,04 mm) HRPO steel sheet.

Cable Assy.: (Cable) Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core. (Cable Connectors) 6063-T6 aluminum.

Net: Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core, color specified. Connector fabricated from 1.250" O.D. 6063-T6 aluminum.

Chain: Steel 1/4" (6,35 mm) straight link chain, 3,150 lb (1428,82 kilograms). working load limit. Finish: ProGuard.

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

Corkscrew: Weldment comprised of 1.900" (48,26 mm) O.D. RS-20 (.090"-.100") (2,28 mm-2,54 mm) galvanized steel tubing, and 1.315" (33,40 mm) O.D. RS-20 (.080"-.090") (2,03 mm-2,28 mm) galvanized steel tubing. Finish: ProShield, color specified.

Cable: Made from 1/4" (6,35 mm) 7-19 galvanized steel cable and fastened with galvanized steel cable clamp.

Magnet Rod: 1/2" (12,7 mm) diameter stainless steel.

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

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

Firepole: Weldment comprised of 1.900" (48,26 mm) O.D. RS-20 (.090"-.100") (2,28 mm-2,54 mm) galvanized steel tubing, and 1.315" (33,40 mm) O.D. RS-20 (.080"-.090") (2,03 mm-2,28 mm) galvanized steel tubing. Finish: ProShield, color specified.

Handhold Panel: Recycled Permalene, color specified.

Panels: Recycled Permalene, color specified.

Magnet Holder: Comprised of aluminum housing with ceramic magnet.

Net Clamp: Weldment comprised of 1/4" x 1 3/4" (6,35 mm x 44,45 mm) HRPO flat steel and .375" (9,53 mm) stainless steel sheet. Finish: ProShield, color specified.

Net Face Plate: Fabricated from 1/4" (6,35 mm) HRPO sheet steel. Finish: ProShield, color specified.

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.

Footer (DB): Weldment comprised of 1.660" (42,16 mm) O.D. RS20 (.085"-.095") (2,16 mm-2,41 mm) galvanized steel tubing and 3/16" (4,75 mm) HRPO sheet steel. Finish: ProShield, color specified.

Belt: Made from .315" (8,00 mm) thick mini rough top 3-ply rubber belting with polyester fabric plys, black in color.

Offset Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Flush Mount Cap: Weldment comprised of 4.675" (118,75 mm) O.D. x 4" (102 mm) long aluminum sleeve and 3/16" (4,75 mm) thick x 4.875" (123,83 mm) top cap. Finish: Tendertuff, color specified.

Grab Bar: Weldment comprised of formed 7/8" (22,23 mm) O.D. x 11 GA (.120") (3,04 mm) and 1/4" x 1 3/4" (6,35 mm x (44,45 mm) stainless steel half clamps. Finish: TenderTuff,color specified.

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

Post: See PlayBooster (PB) General Specifications.

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

Square Deck: Flange formed from 12 GA (.105") (2,66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7,92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 5/8" x 47" x 47" (66,68 mm x 1194 mm x 1194 mm). Finish: TenderTuff, color specified.

Triangular Deck Extension: Flange formed from 12 GA (.105") (2,66 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7,92 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size of two of the three sides measures 2 5/8" x 37 7/8" (66,68 mm x 962,03 mm) on the face of the deck and the other side measures 2 5/8" x 43 3/4" (66,68 mm x 1111,25 mm). Finish: TenderTuff, color specified.

Handhold Panel: Permalene, color specified.

Permalene Panels: Recycled Permalene, color specified.

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

Pod Bolt Plate: Weldment consists of 3/16" (4,75 mm) HRPO steel plate and 3/8" (9,53 mm) thick HRPO steel plate. Finish: ProShield, color specified.

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

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

Rope Tab Swivel: Made from 6061-T6 aluminum.

Exit Support: Weldment comprised of 2.375" (60,32 mm) O.D. RS-20 (.095" - .105") (2,41 mm-2,66 mm) galvanized steel tubing and 1/4" x 4" x 11 3/4" (6,35 mm x 102 mm x 298,45 mm) mounting plate. Finish: ProShield, color specified.

Attachment Block: U.V. stabilized high-density polyethylene, tan in color.

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

Rail: 1 1/8" (28,58 mm) O.D. 6061-T6 aluminum extrusion with 5/16" (7,92 mm) walls. Finish: ProShield, color specified.

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

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

Spacer: One-color Permalene, color specified.

Spacer Tube: Made from 6061-T6 aluminum 7/8" (22,23 mm) O.D. x 1 11/16" (42,85 mm). Finish: ProShield, color specified.

Beam: Weldment comprised of 2.375" (60,33 mm) O.D. RS20 (.095"-.105") (2,41 mm-2,67 mm) wall galvanized steel tubing, 3/8" (9,53 mm) thick stainless steel plate, and 1/4" (6,35 mm) HRPO flat steel. Finish: ProShield, color specified.

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

Clear Cover: Drape formed .177" x 30" x 47 3/8" (4,50 mm x 762 mm x 1203 mm) clear polycarbonate.

Step: Formed from 12 GA (.105") (2,66 mm) sheet steel conforming to ASTM A1011. Finish: TenderTuff,color specified.

Mid-Support: Weldment comprised of 1.900" (48,26 mm) O.D. RS-20 (.090" - .100") (2,28 mm-2,54 mm) galvanized steel tubing and 3/16" x 1 1/4" (4,75 mm x 31,75 mm) zinc plated steel strap. Finish: ProShield, color specified.

Cable: Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core. (Cable Connectors) 6061-T6 aluminum.

Footers: Comprised of HRPO steel sheet 0.250" thick. Finish: Hot Dip Galvanized.

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

Upper Beam: Weldment/assembly consisting of galvanized steel tube 3.5iOD .165W (RS40), Sheet HRPO .1046 (12ga) (Rib), SST sheet 3/8" (Tabs), zinc plated steel .25" (clamp), Finish: ProShield, color Specified.

Medium & large Pentagon: Weldment/assembly consists of galvanized Steel Tube 1.315iOD .083W (RS20), SST sheet 3/8" (Tabs), Finish: ProShield, color Specified.

Small Pentagon: Weldment/assembly consists of galvanized Steel Tube 1.029iOD .083W (RS20), SST sheet 3/8" (Tabs), Finish: ProShield, color Specified.

TenderTuff Chain: Steel 1/4" straight link chain, 3,150 lb. working load limit. Finish: TenderTuff, Gray in color.

Frame: Weldment/assembly consisting of galvanized steel tube 1.660iOD .0955W (RS20), Sheet HRPO 1/4" (Tabs), zinc plated steel .25" (clamp), Finish: ProShield, color Specified.

Mounting Clamps/Plates: Weldment /Assembly consist of Sheet HRPO .179" (7ga), Sheet HRPO 1/4", zinc plated steel .25" (clamp), Finish: ProShield, color Specified.

Pinch Plates: Weldment /Assembly consist of Sheet HRPO .179" (7ga), Pem Stud 3/8"OD, Finish: TenderTuff, Gray in color.

Pentagon Sliders: Recycled Core Permalene®, color specified

Rungs: Comprised of galvanized steel tube 2.375iOD .109W (RS20), End caps: Cast aluminum. Finish: ProShield, color specified.

Belt: Made from .315" thick smooth (non-textured) 3-ply rubber belting with polyester fabric plys, Black in color.

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.

Permitter Cable: (Cable) Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a steel core. (Cable Connectors) 6063-T6 aluminum

Net Face Plate: Fabricated from 3/8" HRPO sheet steel, 1/2" HRPO sheet steel, Finish: ProShield®, color specified.

Hook Cover: Cast Aluminum 356-T6

Post: Comprised of 5" O.D. x 1/4"W galvanized steel tubing, Finish: ProShield, color specified.

Post Cap: Weldment/assembly comprised of galvanized steel tube 5iOD .120W (11ga), Sheet HRPO .179" (7ga), Finish: ProShield, Color Specified.

Sit-down/Grab Bars: Weldment/assembly consists of galvanized steel tube 1.125iOD .120W(11ga), zinc plated steel .25" (clamp), Finish: ProShield, color Specified.

Digi Panels: Sheet 5052-H32 Aluminum .190". Dye sublimation printed digital artwork is fused onto the powdercoated substrate.

Frame: Weldment/assembly consisting of galvanized steel tube 2.375iOD .109W (RS20), galvanized steel tube 1.660iOD .095W (RS20), Sheet HRPO .179" 7ga, Finish: ProShield, color Specified.

Frame: Weldment/assembly consisting of galvanized steel tube 1.315iOD .083W (RS20), Sheet HRPO .1196" 11ga (Tabs), zinc plated steel .25" (clamp), Finish: ProShield, color Specified.

Talk Tube Cover: Solid color Permalene®, Black in color.

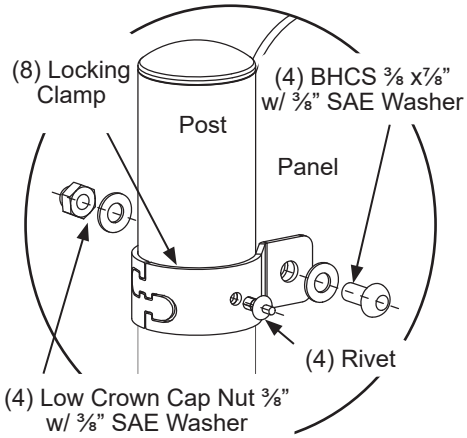
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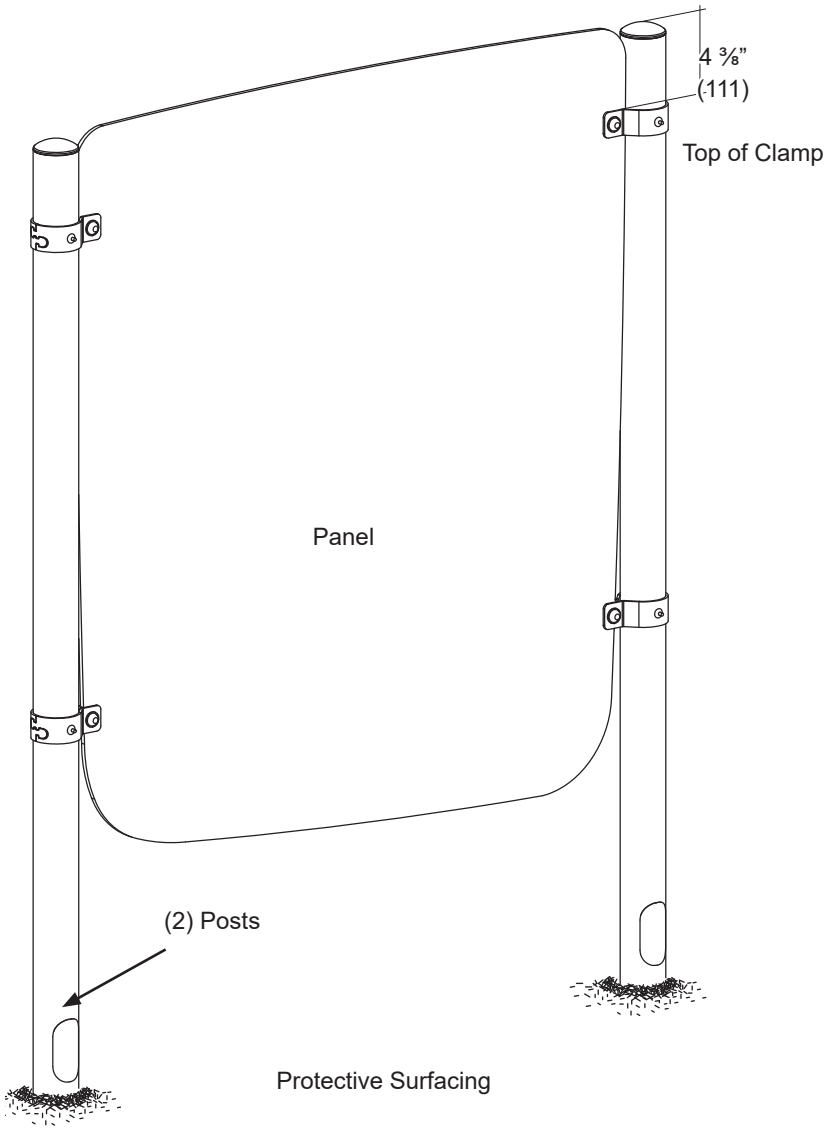
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SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL PUZZLE CLAMP



NOTE: DB POST WILL HAVE THE RIVET HOLES TO INDICATE CLAMP LOCATION. SM VERSION WILL REQUIRE FIELD DRILLING RIVET HOLES



NOTE: Due to the possibility of scratching, it is important to leave packaging on panel until immediately prior to installation.

Signs

355992 Symbol Communication Sign

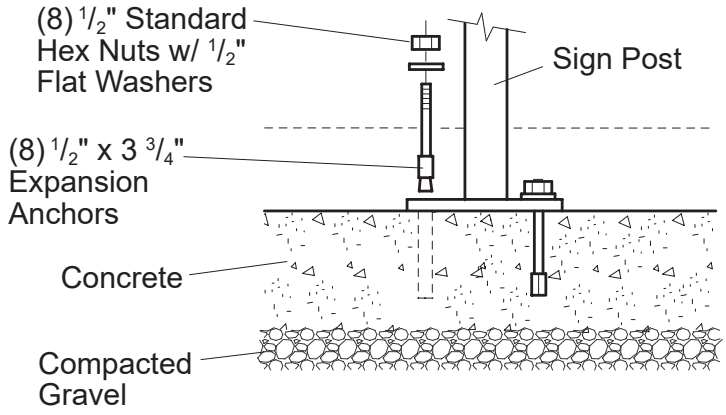
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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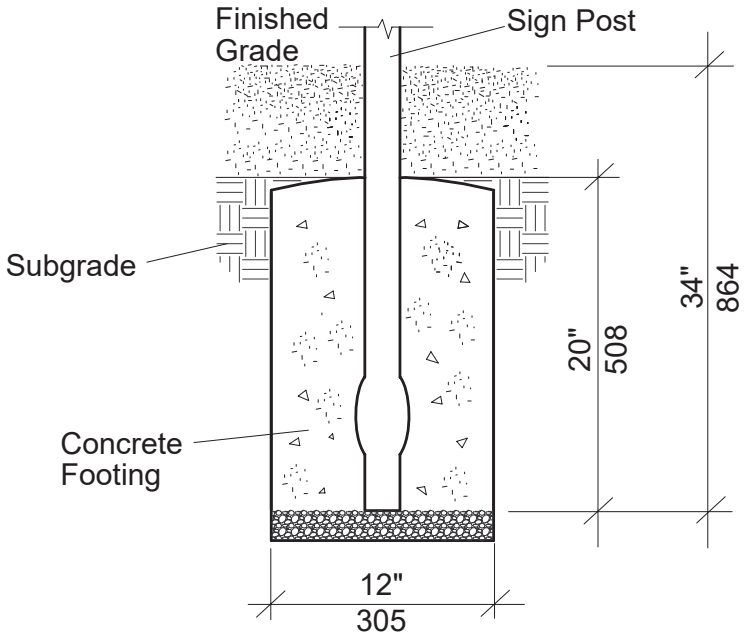
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SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL
SURFACE MOUNT



DETAIL
DIRECT BURY FOOTING



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Parts List

Number	Product Name	QTY.
354477	LOCKING CLAMP 2-3/8i TUBE PNT	8
353934	COMMUNICATION BOARD POST	2
354038	COMMUNICATION BOARD ENGLISH/SPANISH	1
355982	COMMUNICATION BOARD POST SM WLD	2
358230	COMMUNICATION BOARD ENGLISH/ENGLISH	1
356039	Hdw Pkg Communication Sign	1
100196	BHCS 6LP 3/8x7/8i SST	4
100349	NUT L/C CAP 3/8-16 SST	4
100365	WASHER FLAT SAE 3/8i SST	8
127155	RIVET 1/4X5/16i DRV AS	4
183388	HDW PKG 4-HOLE SM 1/2 x 3-3/4	1
100322	NUT HEX STD 1/2-13 SST	4
100363	WASHER FLAT 1/2i SST	4
176046	EXP ANCHOR 1/2x3-3/4i ZP	4

Specifications

Installation Time:	(DB) Approx. 1 man hour
	(SM) Approx. 1/2 man hour
Concrete Req.:	Approx. 3 cu. ft.
Weight:	(DB) - 77 lbs.
	(SM) - 67 lbs.

Installation Instructions

Direct Bury

1) Dig footings holes to depth and spacing as shown.
2) Attach sign panel to posts as shown, using 3/8” x 7/8” BHCS w/pin with 3/8” SAE flat washers and 3/8” low crown cap nuts with 3/8” SAE flat washers. Install 1/4” x 3/8” drive rivets in locking clamps. Insert drive rivet in hole through clamp and into pre drilled post. Hammer drive rivet pin in until flush with head.
3) Set sign assembly in footing holes and temporarily brace in plumb position.
4) Pour concrete footings. After concrete has set, remove bracing and install protective surfacing before users are allowed to play on the structure.

Surface Mount

1) Attach sign panel to posts as shown, using 3/8” x 7/8” BHCS w/pin with 3/8” SAE flat washers and 3/8” low crown cap nuts with 3/8” SAE flat washers. Install 1/4” x 3/8” drive rivets in locking clamps. Drill through locking clamp and into the post with a 1/4” or “F” (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head.
2) With sign in proper position, use a 1/2” masonry bit and hammer drill, drill 3” deep holes into concrete slab through holes in anchor plates. Tap 1/2” x 3 3/4” expansion anchors into holes and secure using 1/2” standard hex nuts with 1/2” flat washers.

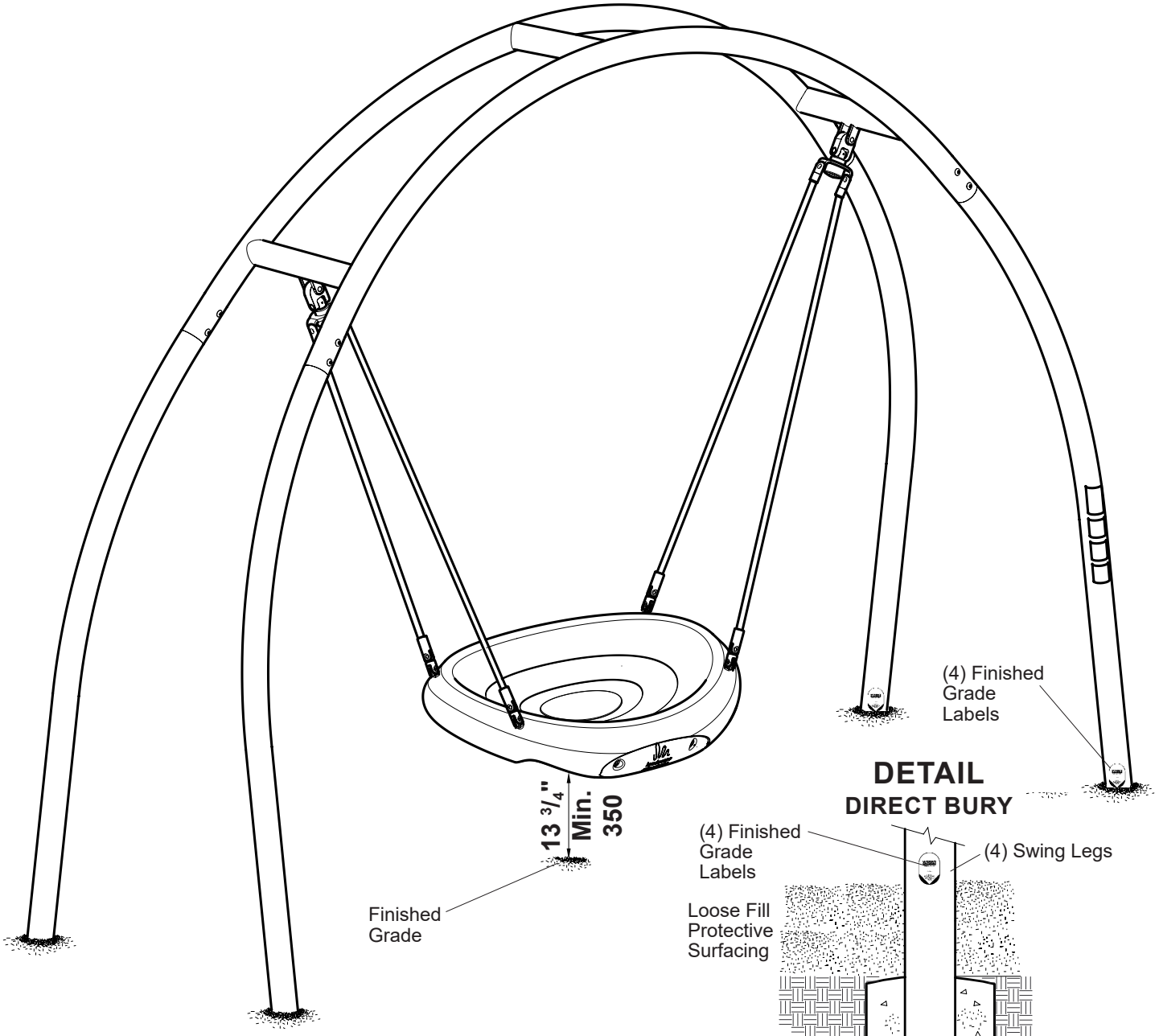
6/03/2025 - Removed install instructions from parts list and updated LSI logo

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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.)



⚠ WARNING

Failure to meet the minimum **13 3/4"** clearance between the lowest point of the seat and the protective surfacing may result in serious injury. Children have sustained broken legs and ankles due to the seat being installed too low.

Swings

173592 Oodle® Swing

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Document #34320000

DETAILS

FINISHED GRADE TO SWING SEAT MEASUREMENT





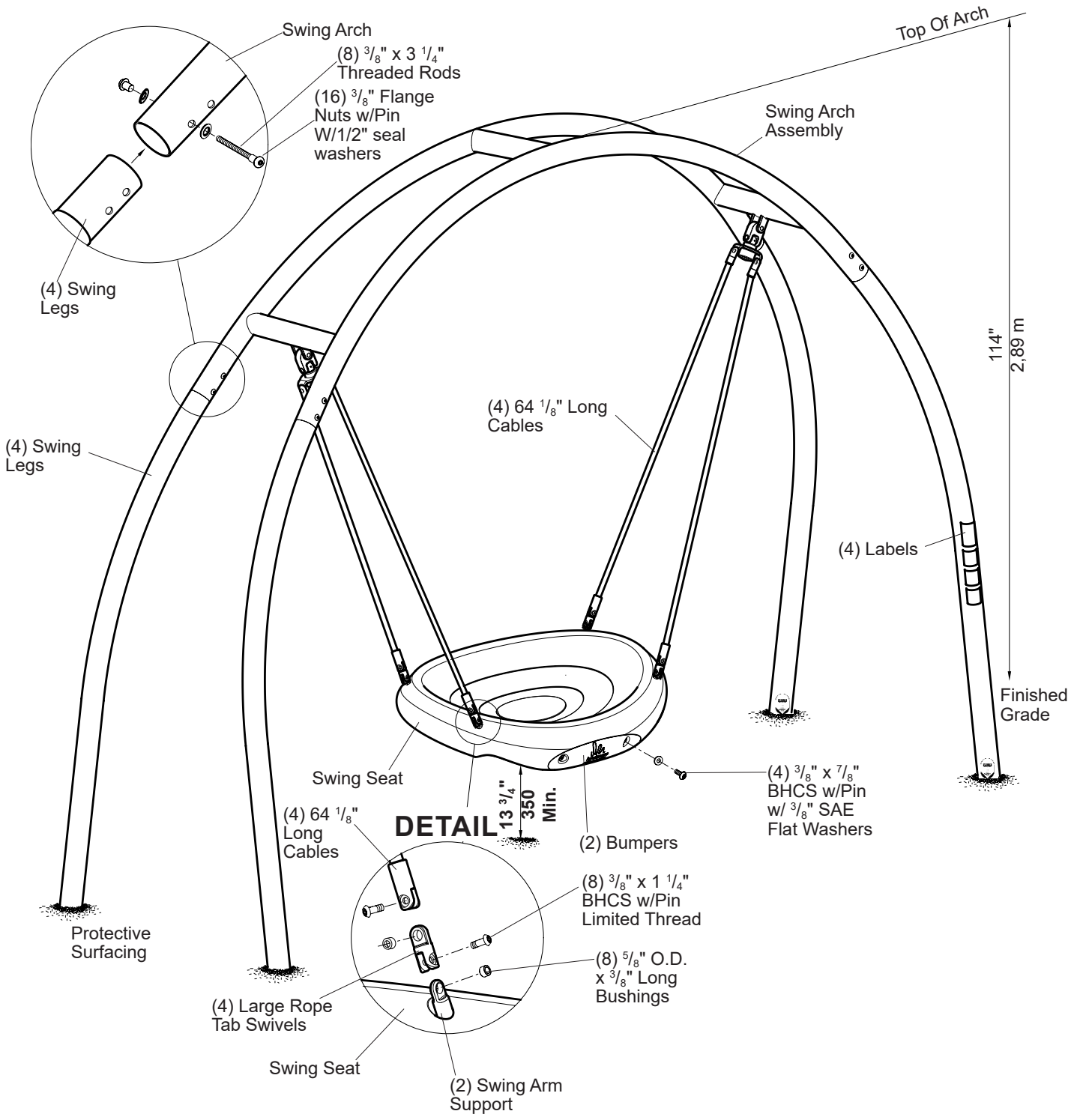


NOTE: Take dimension from the lowest point on the seat.

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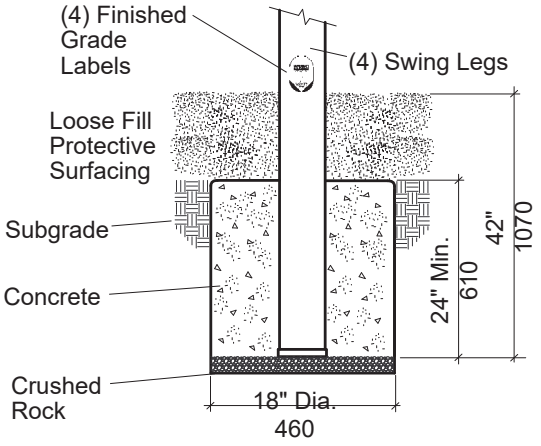
DETAIL
SWING LEG ATTACHMENT



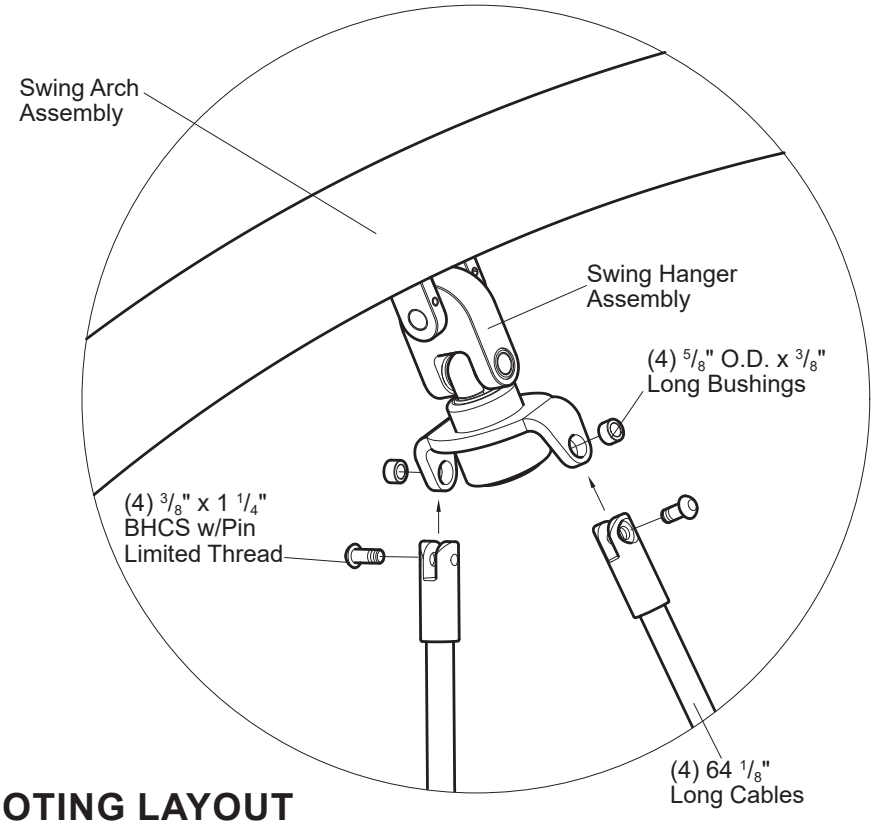
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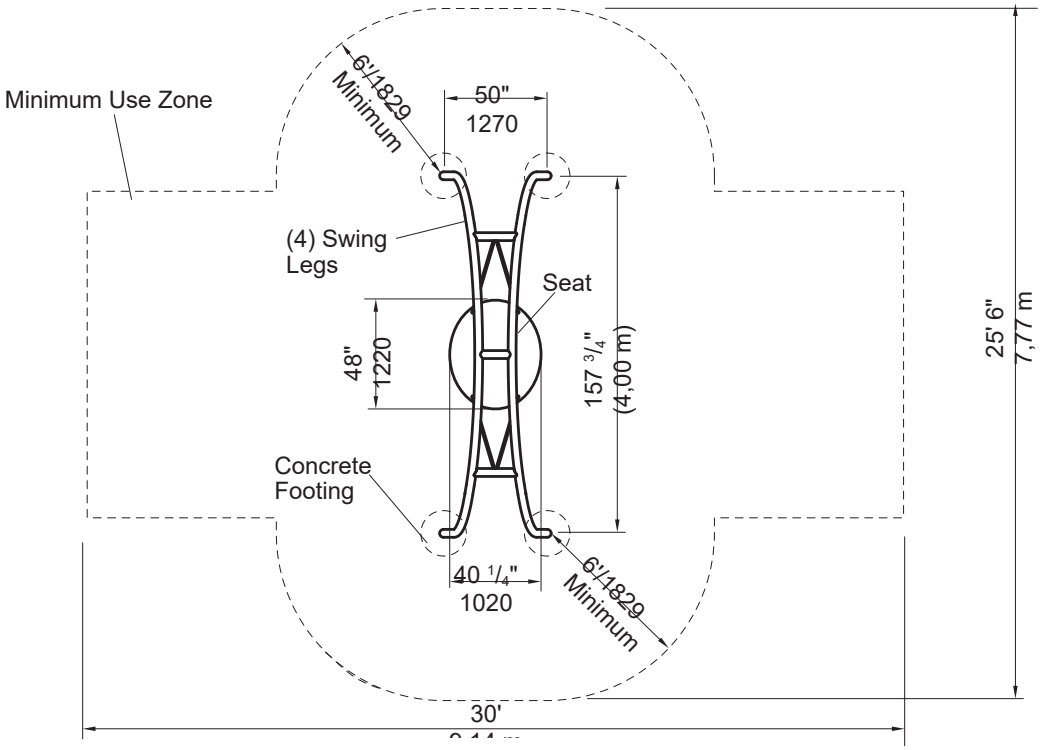
DETAIL
DIRECT BURY



DETAIL
CABLE ATTACHMENT



PLAN VIEW/FOOTING LAYOUT



Swings

173592 Oodle® Swing

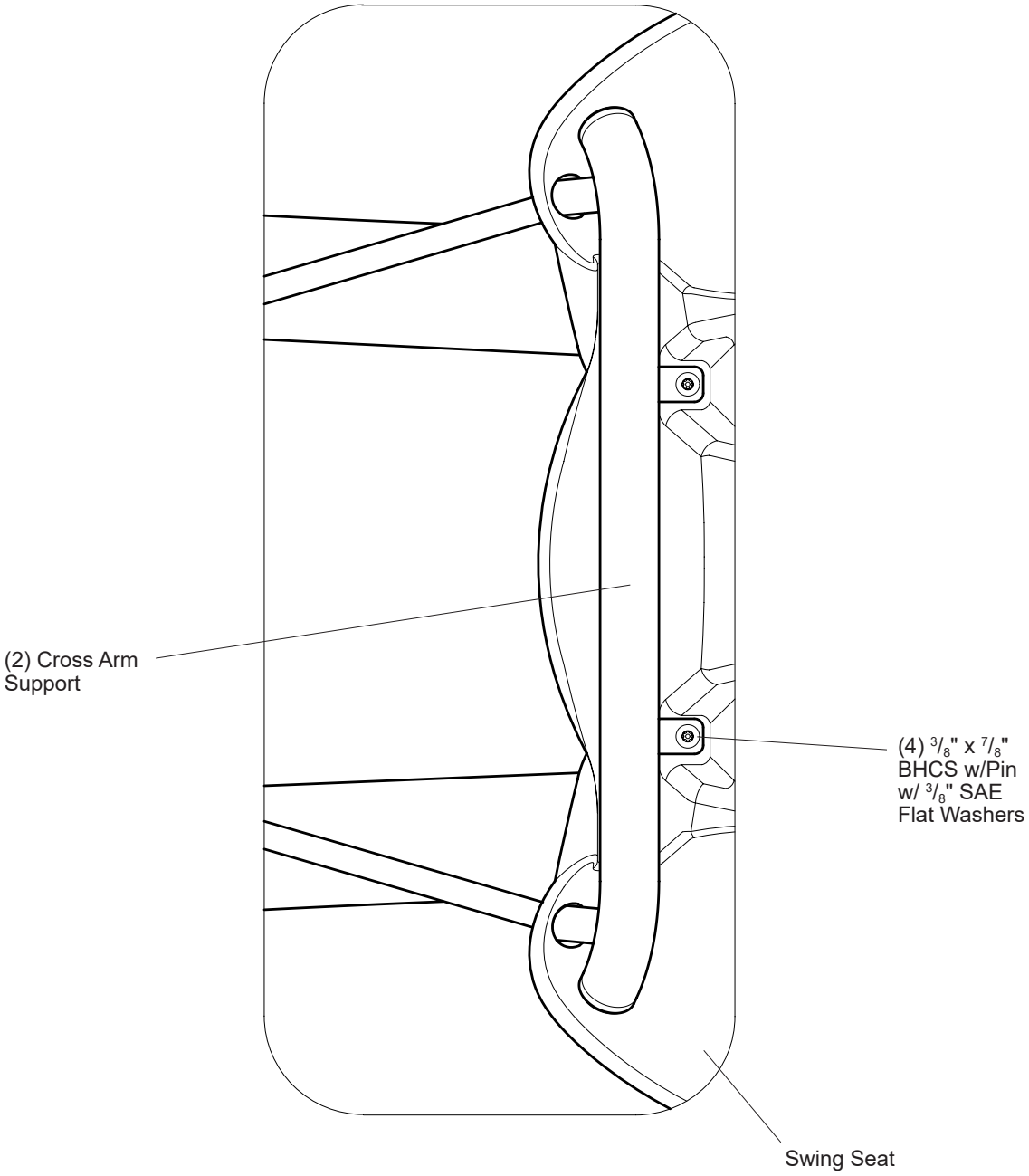
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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Document #34320000

DETAIL
SWING SEAT ATTACHMENT

Bottom View



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Swings173592 Oodle® Swing

Document #34320000

Parts List

Part#	Description	Qty.
193982	Swing Seat, Specify Color	1
172045	Swing Bumper, Black	2
174343	Swing Leg, Specify Color	4
255178	64 1/8" Swing Cable, Black	4
177254	Swing Arch, Specify Color	1
189148	Cross Arm Support, Specify Color	2
255160	Large Rope Tab Swivel, Aluminum	4
255190	**Oodle Swing Hardware Package**	1
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100292	3/8" x 1 1/4" BHCS w/Pin Limited Thread, SST	12
100353	3/8" Flange Nut w/Pin, SST	16
100365	3/8" SAE Flat Washer, SST	8
176539	3/8" x 3 1/4" Threaded Rod, SST	8
127179	5/8" O.D. x 3/8" Long Bushing, SST	12
156847	Play Safe Label, 5-12 Yrs.	1
182213	Hot Surface Warning Label	1
182212	Entanglement Warning Label	1
115176	Hard Surface Warning Label	1
223098	1/2" ID x 1" OD Master Seal Washer	16

Specifications

Swing Seat: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

Cross Arm Sprt: Weldment comprised of 1.66" (42,16 mm) O.D. RS40 (.108"-.132") (2,16 mm-2,41 mm) galvanized steel tube, 1.000" (25,4 mm) O.D. x .750" (19,05 mm) I.D. 1018 stainless steel and 7GA (.179") (4,55 mm) HRPO steel sheet. Finish: ProShield®, color specified.

Rope Tab Swivel: Made from 6061-T6 aluminum.

Cable: Made of tightly woven polyester-wrapped, six-stranded galvanized-steel cable with a polypropylene core. **(Cable Connectors)** 6061-T6 aluminum.

Bumper: Molded from U.V. stabilized black EPDM rubber encapsulating 11 GA (.120") HRPO steel sheet.

Swing Arch: Weldment comprised of 3.500" O.D. RS20 (.080"-.090" wall) galvanized steel tube and $^{1}/_{2}$" thick stainless steel tabs. Finish: ProShield®, color specified.

Swing Leg: 3.500" O.D. RS20 (.080"-.090" wall) galvanized steel tube. Finish: ProShield, color specified.

Swing Hanger Assembly: Assembly comprised of 300 series stainless steel knuckle and yoke, stainless steel swing pin, stainless steel spring pin and oilite bushings.

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

Installation Time: 8 - 10 man hours
Area Required: 25' 6" x 30' (7,77 m x 9,14 m) minimum
Weight: 395 lbs.
Concrete: .52 cu. yards
Fall Height: 90" (2,28 m)

Installation Instructions

1) Dig footings spaced as shown. Refer to the Plan View/Footing Layout.
2) Preassemble the Oodle swing over a clean non-scratching surface.
3) Attach swing legs to swing beam assemblies, using $^{3}/_{8}$" x 3 $^{1}/_{4}$" threaded rods, $^{1}/_{2}$" seal washers and $^{3}/_{8}$" flange nuts w/pin. Refer to the Swing Leg Attachment Detail.
4) Stand swing upright onto legs and position in footing holes. Make final adjustments so arch is at proper height and legs are in line with each other.

   WARNING: Considering the depth of the surfacing material that will be used under the swing, make sure that the finished grade label (attached on each swing leg) is at the appropriate height. This confirms that the swing can be set at a safe and proper elevation.
5) Pour concrete footings and let cure for 72 hours before proceeding.
6) Attach bumpers to swing seat, using $^{3}/_{8}$" x $^{7}/_{8}$" BHCS w/pin and $^{3}/_{8}$" SAE flat washers.
7) Attach swing seat brackets to swing seat. Refer to the Swing Seat Attachment Detail.
8) Attach cables to rope tab swivels. Attach rope tab swivels to swing seat brackets. Refer to the Swing Seat Attachment Detail.
9) Attach cables to swing hanger assemblies. Refer to the Cable Attachment Detail.
10) Apply Play Safe and Warning Labels, as shown.
11) Install protective surfacing before users are allowed to play on the structure.

    IMPORTANT: Verify seat has a safe clearance from the surfacing material as shown on sheet 1. Failure to do so could result in a hazardous installation that may result in serious injury.

Eco #0101832 Document #26967400 replaces #26046900. Arm Support change from RS20 to RS40.
6/16/2025 - Corrected Cross Arm Support notes and updated LSI logo.

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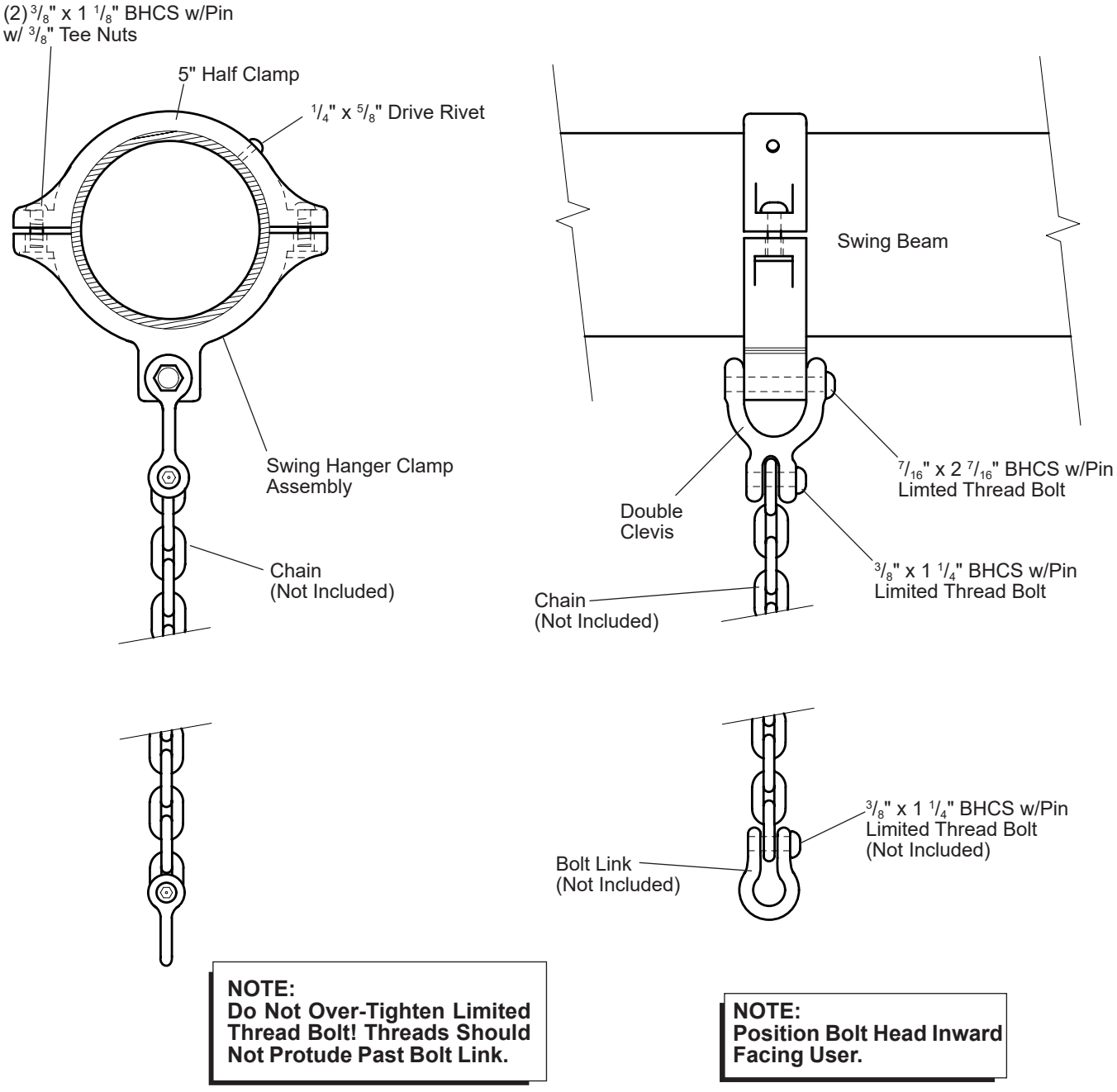
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SAFETY NOTE

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.)

13616300



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

NOTE:
Position Bolt Head Inward Facing User.

Swings

111418 Swing Hanger, Belt Swing

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Swings 111418 Swing Hanger, Belt Swing

Parts List

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

Specifications

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

Double Clevis: Stainless Steel.

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

Installation Time: Approx. 1/2 man hour

Weight: 6 lbs.

Installation Instructions

1) Locate and mark location of clamp on beam.

2) Attach 5" half clamp and swing hanger clamp to beam using 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. *Tighten evenly.*

3) ***IMPORTANT:*** *Drill through holes in 5" half clamps and into 5" pipe with a 1/4" or "F" (only) drill bit, tap 1/4" x 5/8" drive rivets through 5" half clamps and into pipe, to ensure that clamps remain secure.*

4) Attach swing chain to double clevis using 3/8" x 1 1/4" BHCS w/pin limited thread bolts.

5) Attach swing seat to chains using bolt links with 3/8" x 1 1/4" BHCS w/pin limited thread bolts. **NOTE:** *Do not over-tighten limited thread bolt. Threads should not protrude past bolt link. Position bolt head inward facing user.*

Specifications are subject to change without notice.

ECO #54506 Document #18379700 replaces #13616300. Changed Double Clevis material to Stainless Steel.

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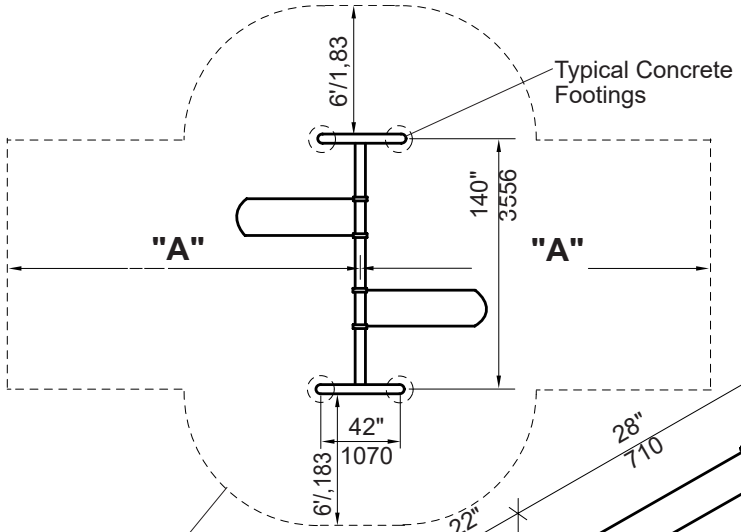
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SAFETY NOTE

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.)

PLAN VIEW/FOOTING LAYOUT



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

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

Model #221293 Additional Bay

Swings

221292/221293 Arch Swing Frame

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Document #30163900

Swings 221292/221293 Arch Swing Frame

Parts List

Part#	Description	Qty. 2 Pl	Qty. Add. Bay
126749	Swing Arch, Specify Color	2	1
100610	1/4" x 5/8" Drive Rivet, AL/SST	8	6
105327	5" Half Clamp, Specify Color	8	4*
216492	140" Swing Beam, Specify Color	1	1
121291	**Swing Hanger Clamp Assy. Specify Color**	4	4
121289	Swing Hanger Clamp, Specify Color	4	4
127068	7/16" x 2 7/16" BHCS w/Pin Ltd. Thread, SST	4	4
138917	Swing Hanger Double Clevis	4	4
100667	Oilite Bushing	4	4
243802	**Hdw Pkg 5iOD Swing Beam.**	1	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8	8
234397	BHCS 6LP LTHD 7/16 x 1 11/16i, SST	8	8
100292	3/8" x 1 1/4"BHCS w/Pin Ltd. Thread, SST	4	4
100351	3/8" Tee Nut, SST	8	8
156846	Play Safe Label, 2-12 Yrs.	1	1
234937	7/16" D Cut Washer, SST	16	16
182213	Hot Surface Warning Label	1	1
182212	Entanglement Warning Label	1	1
115176	Hard Surface Warning Label	1	1
100330	7/16" Nylok Hex Nut	8	8

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

Specifications

Arch Posts: See PlayBooster® (PB) General Specifications.

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

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

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

Installation Time: 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'-2 3/4" x 32' (7,39 m x 9,75 m)
Additional Bay 11'-8" x 32' (3,55 m x 9,75 m)

Weight: 204 lbs.
Additional Bay 124 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.

ECO# 0102179 Document 30163900 replaces 24381900 Change to molded seat w/harness use zone

Specifications are subject to change without notice.

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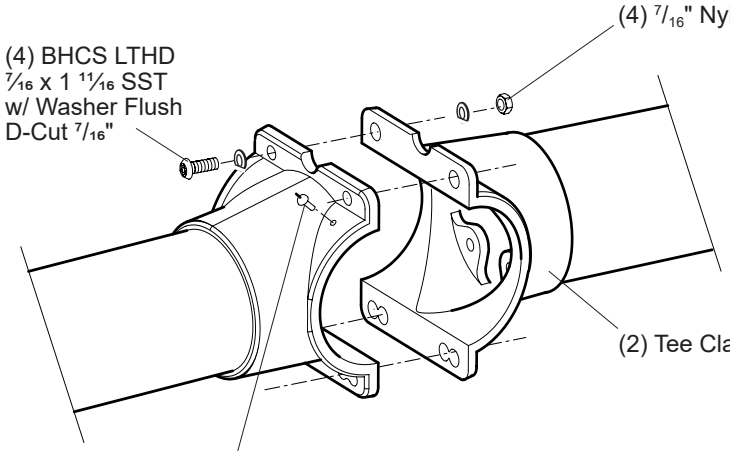
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SAFETY NOTE

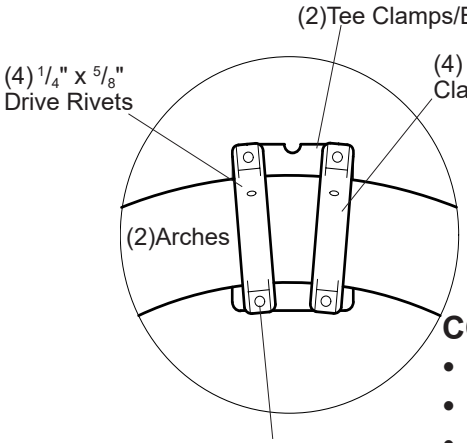
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL
BACK TO BACK TEE CLAMPS



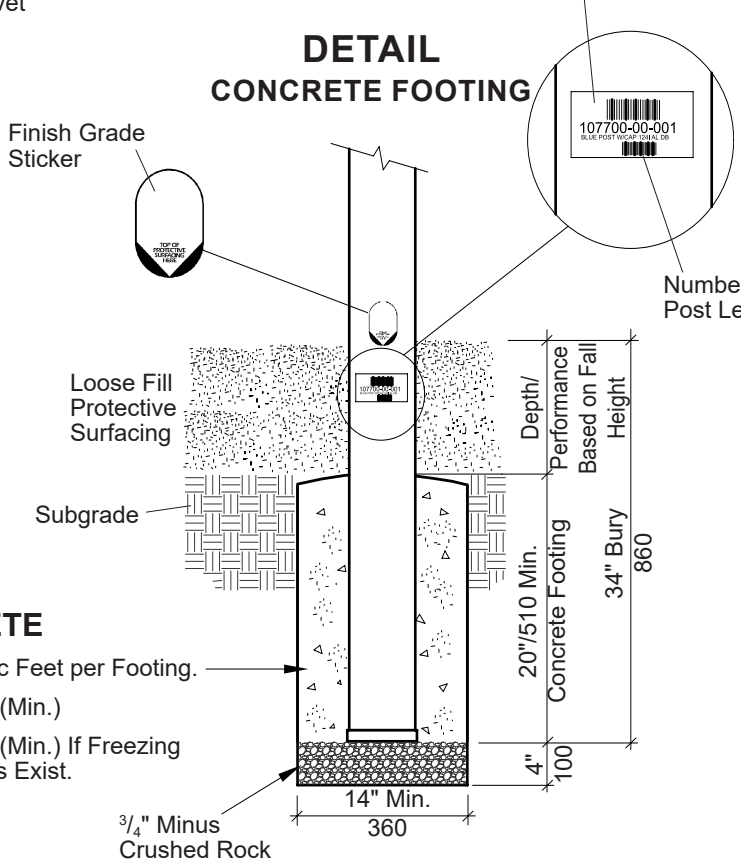
NOTE: Drill 1/4" hole through tee and arch for 1/4" x 5/8" drive rivet when installing back to back tee clamps.

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

DETAIL
CONCRETE FOOTING



CONCRETE

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

Swings

221292/221293 Arch Swing Frame

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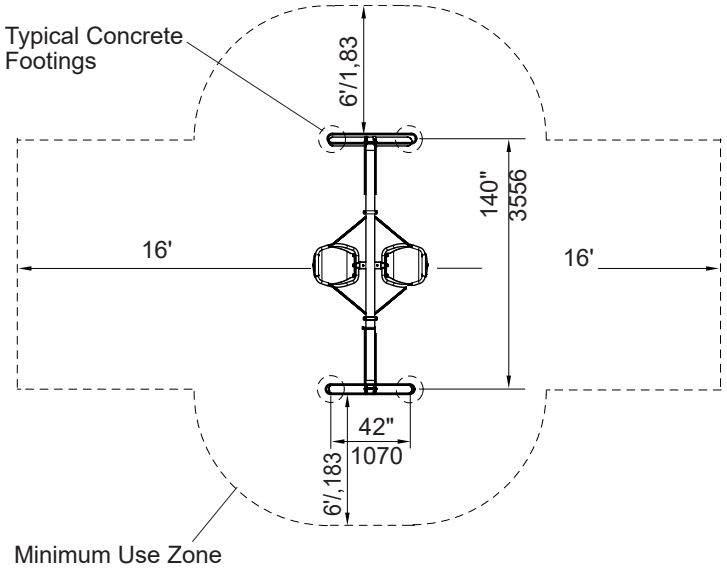
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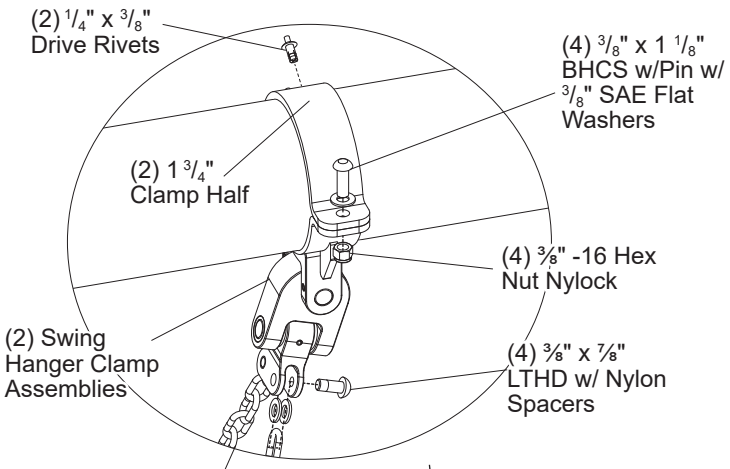
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

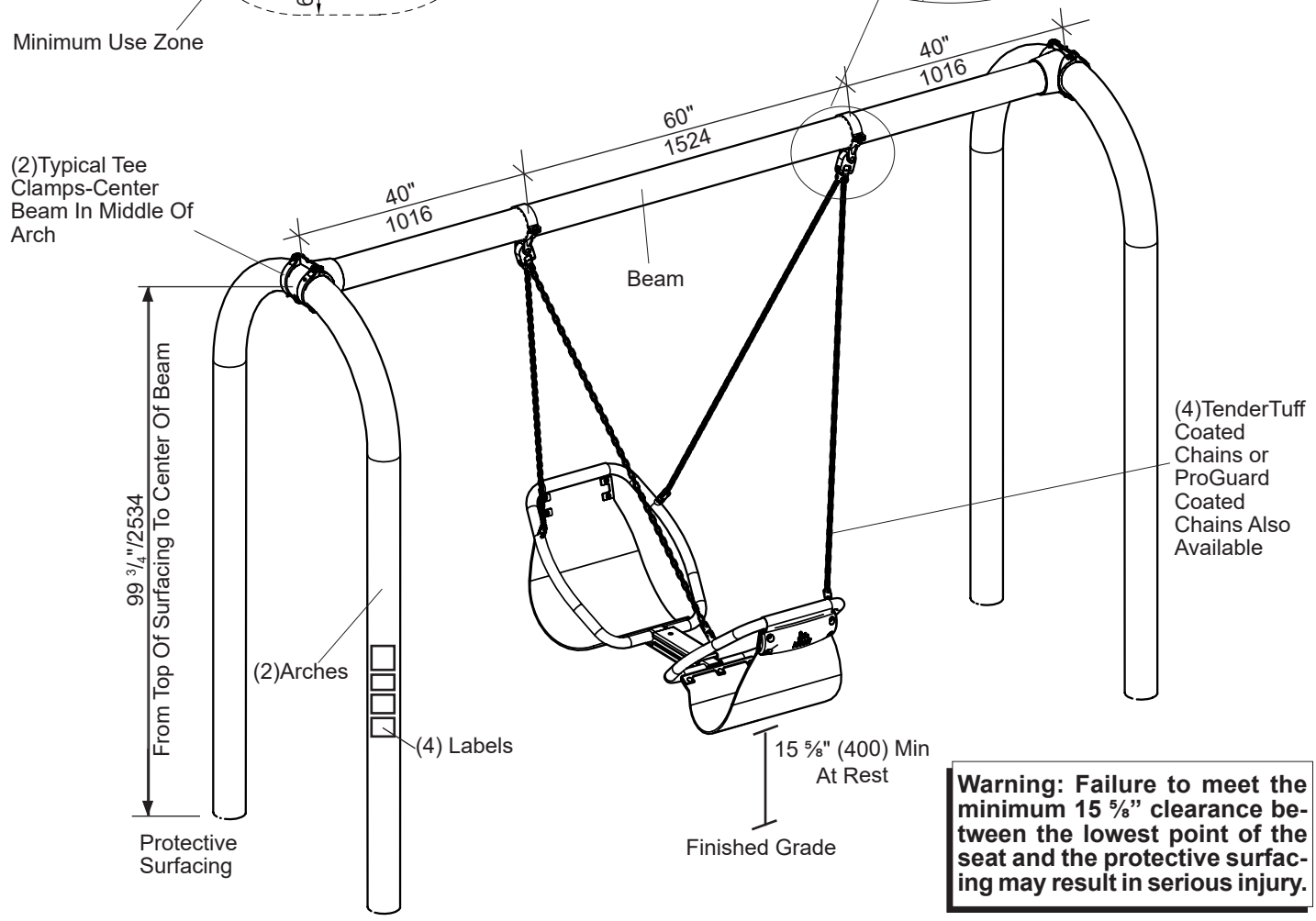
PLAN VIEW/FOOTING LAYOUT



DETAIL

SWING HANGER ATTACHMENT





Warning: Failure to meet the minimum 15 5/8" clearance between the lowest point of the seat and the protective surfacing may result in serious injury.

Model #237294 Additional Bay

Swings 237293/237294 Friendship Swing w/Arch Frame

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Document #30926300

Swings 237293/237294 Friendship Swing w/Arch Frame

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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 11⁄16, 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.

ECO-0102253 Document 30926300 replaces 28890000. Added nylon spacers to upper connection on proguard chain models

Specifications are subject to change without notice.

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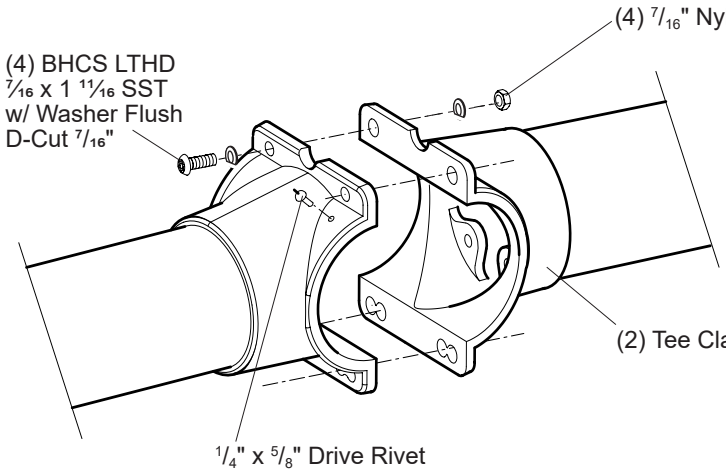
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SAFETY NOTE

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.)

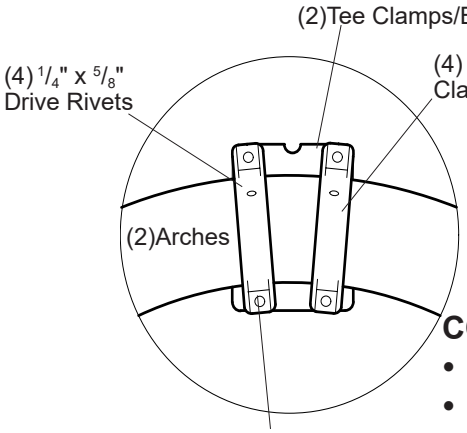
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DETAIL
BACK TO BACK TEE CLAMPS



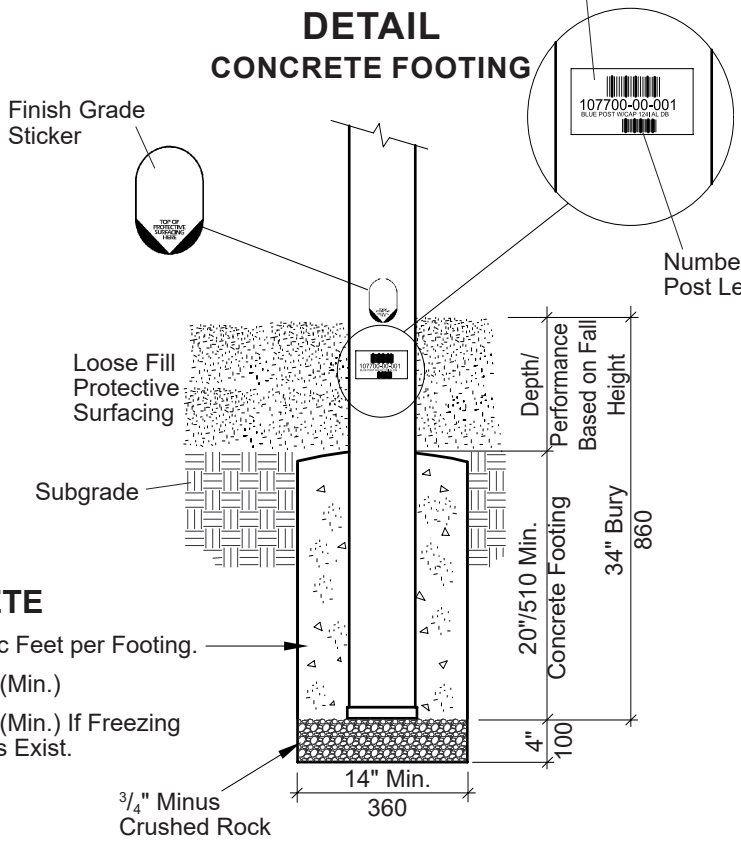
NOTE: Drill 1/4" hole through tee and arch for 1/4" x 5/8" drive rivet when installing back to back tee clamps.

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

DETAIL
CONCRETE FOOTING



CONCRETE

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

Swings 237293/237294 Friendship Swing w/Arch Frame

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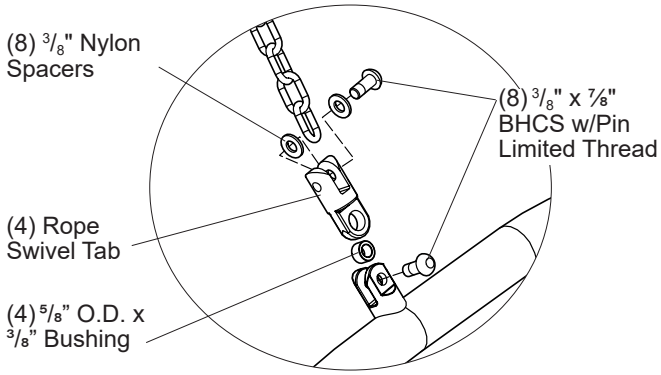
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SAFETY NOTE

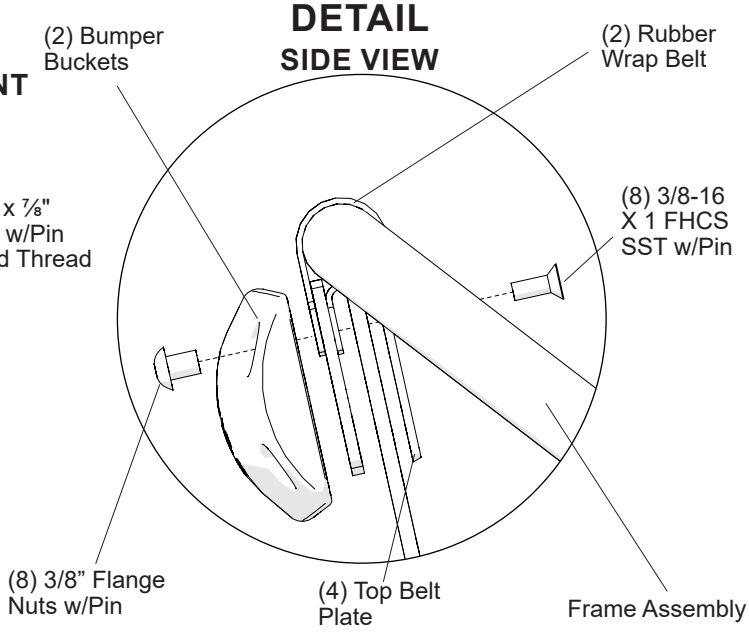
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL
SWING TO CHAIN ATTACHMENT

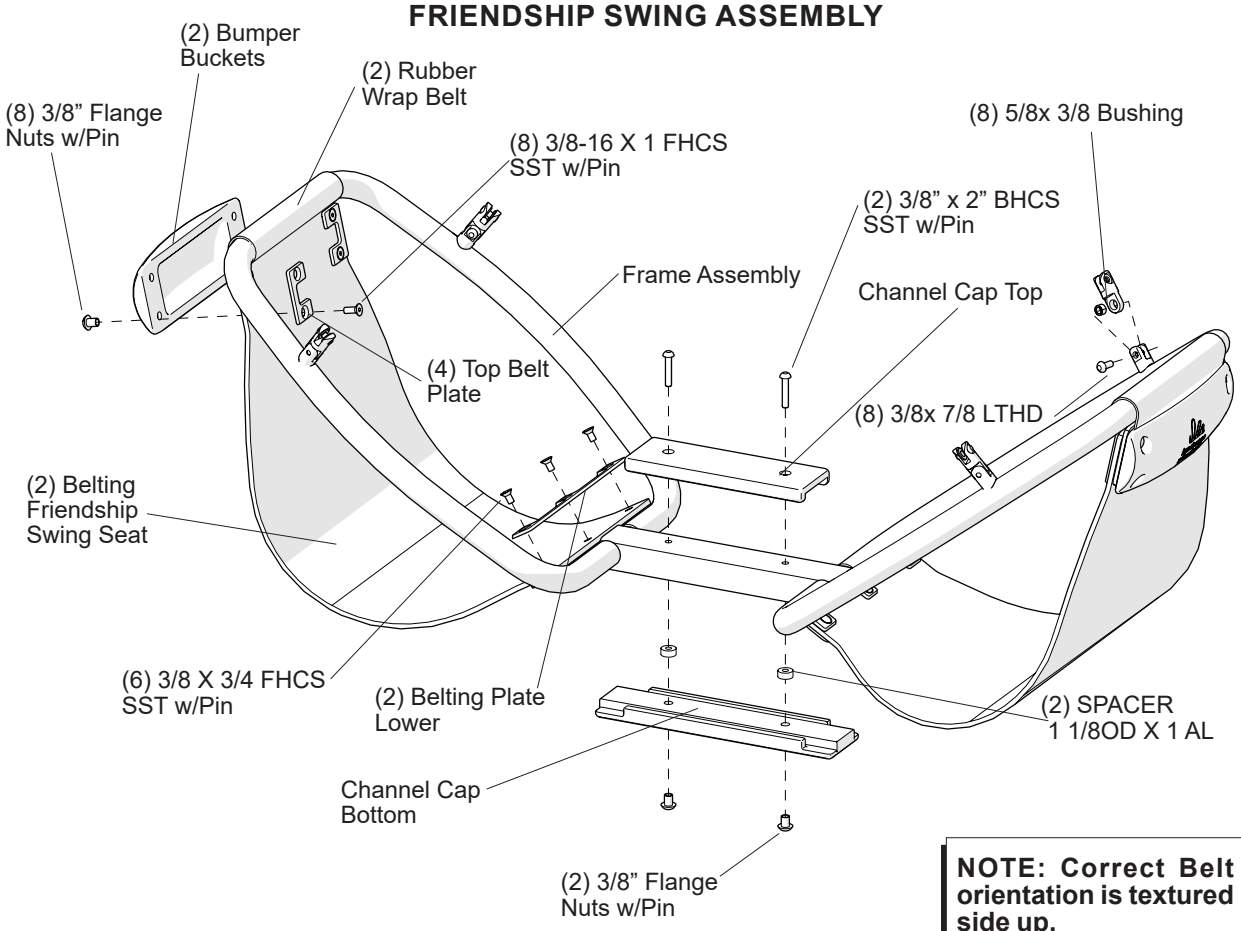


NOTE: Drill 1/4" hole through tee and arch for 1/4" x 5/8" drive rivet when installing back to back tee clamps.

DETAIL
SIDE VIEW



DETAIL
FRIENDSHIP SWING ASSEMBLY



NOTE: Correct Belt orientation is textured side up.

Swings 237293/237294 Friendship Swing w/Arch Frame

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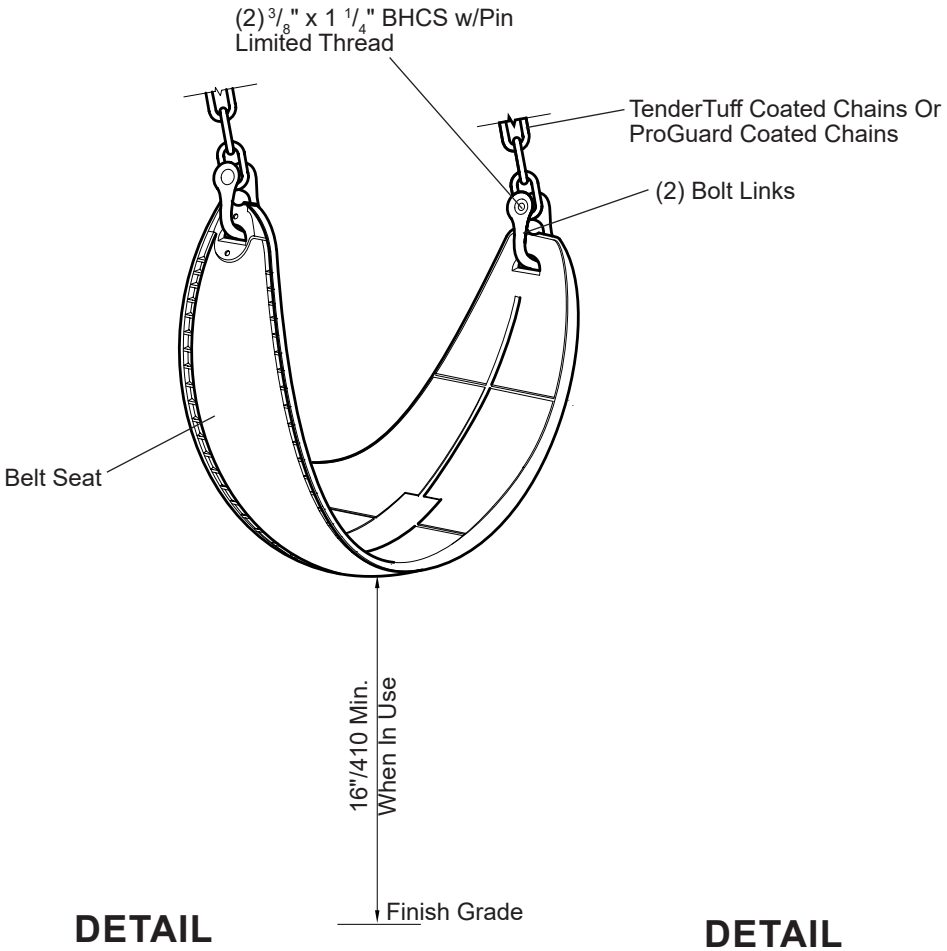
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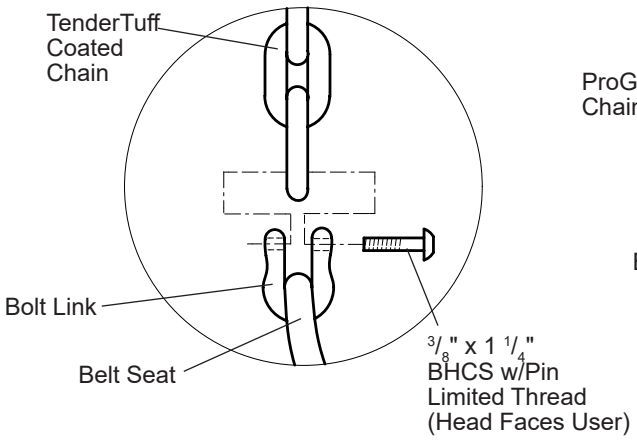
SAFETY NOTE

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*.)

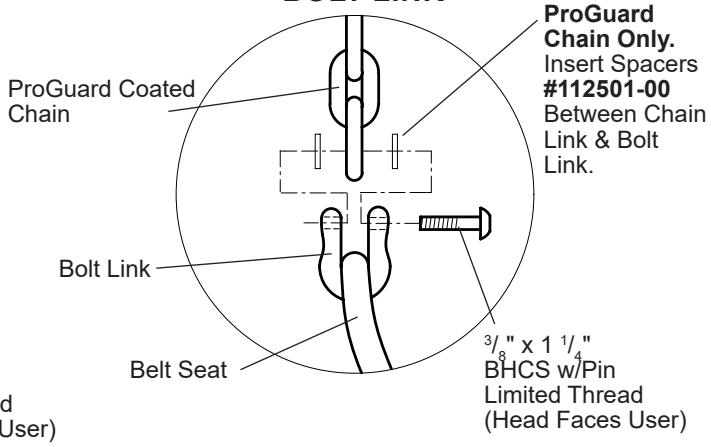
17745700



DETAIL
BOLT LINK



DETAIL
BOLT LINK



Swings

174018 Belt Seat

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Document #21059100

Swings 174018 Belt Seat

Parts List

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

Specifications

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

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

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

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

Bolt Link: Stainless Steel.

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

Installation Time: 1/4 man hour per seat

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

Installation

NOTE: *Refer to Swing Frame assembly for swing hanger type.*

Swing Hangers With Double Clevis

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

Anti-wrap Swing Hangers

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

Specifications are subject to change without notice.

5/14/25 - Clarification and note added for swing hanger components being part of swing frame assembly.

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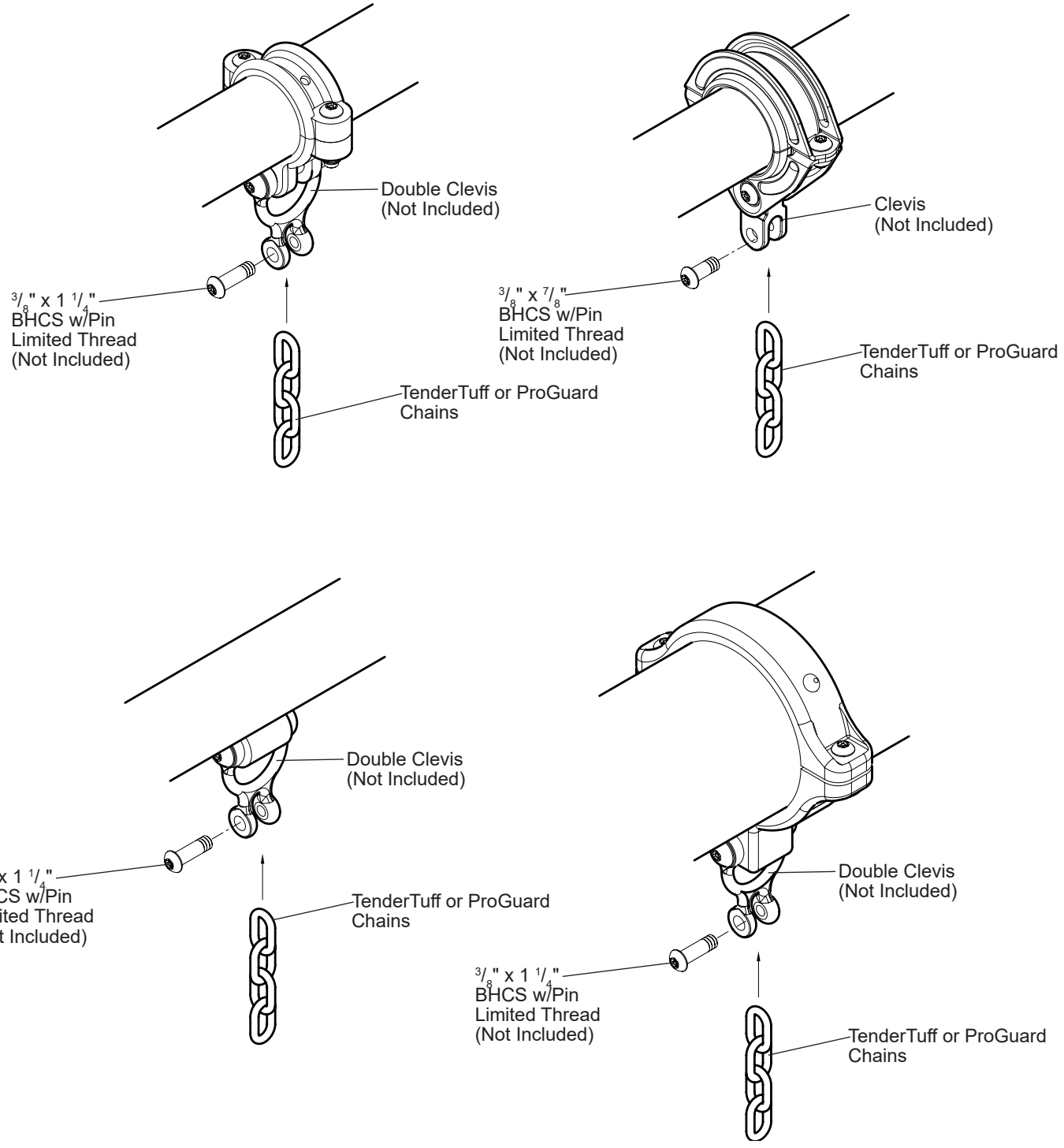
SAFETY NOTE

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*.)

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SWING HANGER OPTIONS

Swing Hanger Components included with Swing Frame.



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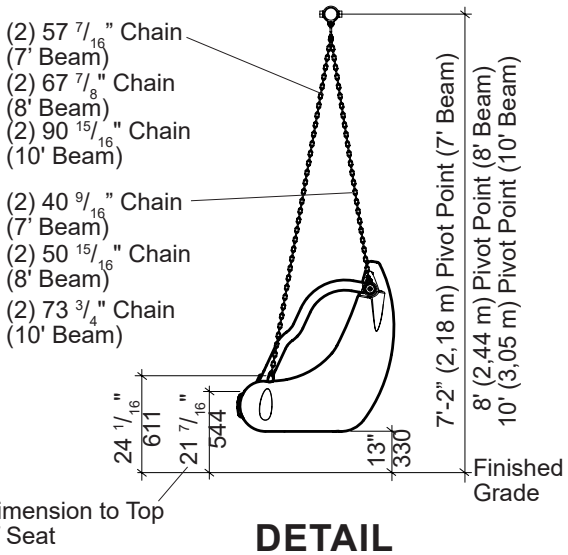
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SAFETY NOTE

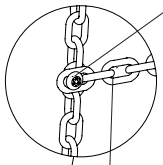
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. *ASTM F1487*.)

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ELEVATION

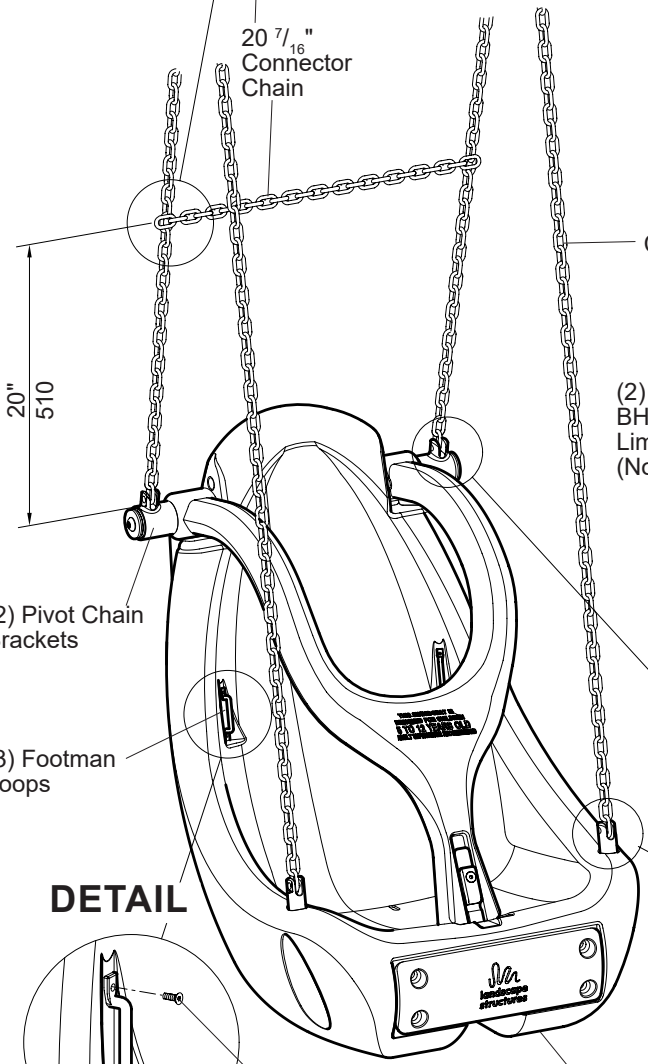


DETAIL

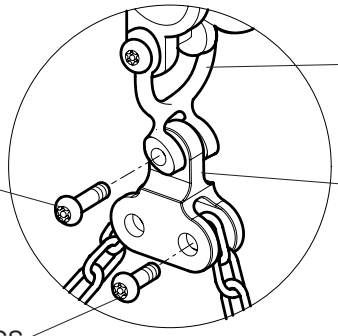


(ProGuard Chain)
(2) 3/8" x 7/8" BHCS w/Pin & 3/8" Hex Jam Nuts

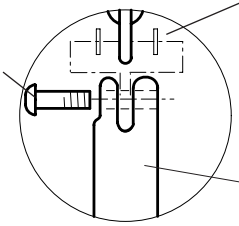
(TenderTuff Chain)
(2) 3/8" x 1 1/8" BHCS w/Pin & 3/8" Standard Hex Nuts w/ 3/8" SAE Flat Washers



DETAIL
HANGER ASSEMBLY



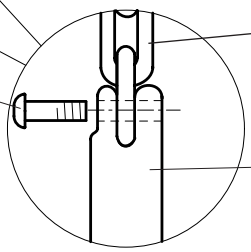
DETAIL
BRACKET



NOTE: For ProGuard chain, insert (8) nylon spacers between chain links & brackets

DETAIL

DETAIL
BRACKET



Swings

177351 Molded Bucket Seat, w/Harness

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Document #25974300

Swings 177351 Molded Bucket Seat, w/Harness

Parts List

Part#	Description	Qty.
259433	Molded Bucket Seat Assembly, Specify Color	1
	7 Ft. High Beam - ProGuard Finished Chains	
175251	57 7/16" Long, (Front)	2
193869	40 9/16" Long, (Back)	2
175653	20 7/16" Long, (Connector)	1
	8 Ft. High Beam - ProGuard Finished Chains	
174404	67 7/8" Long, (Front)	2
175619	50 15/16" Long, (Back)	2
175653	20 7/16" Long, (Connector)	1
	10 Ft. High Beam - ProGuard Finished Chains	
174884	90 11/16" Long, (Front)	2
175623	73 3/4" Long, (Back)	2
175653	20 7/16" Long, (Connector)	1
	7 Ft. High Beam - TenderTuff Chains	
178679	57 7/16" Long, (Front), Specify Color	2
179286	40 9/16" Long, (Back), Specify Color	2
174571	20 7/16" Long, (Connector), Specify Color	1
	8 Ft. High Beam - TenderTuff Chains	
152050	67 7/8" Long, (Front), Specify Color	2
174572	50 15/16" Long, (Back), Specify Color	2
174571	20 7/16" Long, (Connector), Specify Color	1
	10 Ft. High Beam -TenderTuff Chains	
152052	90 11/16" Long, (Front), Specify Color	2
175621	73 3/4" Long, (Back), Specify Color	2
174571	20 7/16" Long, (Connector), Specify Color	1
225662	**Molded Seat w/Yoke Hardware Package**	1
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100198	3/8" x 1 1/8" BHCS w/Pin, SST	2
100290	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	8
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST	6
106035	Seat Mounting Bracket	2
112501	Nylon Spacer	8
128296	3/8" Hex Jam Nut, SST	2
207709	Footman Loop, SST	3
160307	Double Pivot Block Assy.	2
162462	#10-24 x 1/2" Flat Head Screw, SST	6

Specifications

Bucket Seat Assy.: **(Bucket Seat & Yoke)** Rotationally molded from U.V. stabilized linear low density polyethylene, color specified. **(Pipebolt)** Made from 1.125" O.D. 6005-T5 threaded annodized aluminum tube. **(Bearings)** UHMW PE lubricated. **(Brackets)** Made from 356-T6 aluminum.

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

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

Seat Mounting Bracket: Cast from 535 aluminum magnesium.

Bumper: Molded from U.V. stabilized black EPDM rubber encapsulating 11 GA (.120") HRPO steel sheet.

Dbl. Pivot Block: Fabricated from 6061-T6 Aluminum with bronze oil impregnated bearing.

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

Installation Time: Approx. 1 man hour

Weight: 50 lbs. (7 Ft. Beam w/ProGuard Chains)
53 lbs. (7 Ft. Beam w/TenderTuff Chains)
48 lbs. (8 Ft. Beam w/ProGuard Chains)
51 lbs. (8 Ft. Beam w/TenderTuff Chains)
51 lbs. (10 Ft. Beam w/ProGuard Chains)
55 lbs. (10 Ft. Beam w/TenderTuff Chains)

Installation Instructions

1) Insert seat mounting brackets into molded-in holes in front of bucket seat and attach ends of chain, using 3/8" x 7/8" BHCS w/pin limited thread. See Bracket Detail. **NOTE:** *For ProGuard coated chain, insert (4) nylon spacers between chain links and brackets.*

2) Attach ends of chain to pivot chain brackets, using 3/8" x 7/8" BHCS w/pin limited thread. See Bracket Detail. **NOTE:** *For ProGuard coated chain, insert (4) nylon spacers between chain links and brackets.*

3) Attach chains to double pivot blocks, using 3/8" x 7/8" BHCS w/pin limited thread.

4) **NOTE**: *Refer to Swing Frame assembly for swing hanger type.*

   (Swing Hangers with Double Clevis) Attach chains to swing hanger double clevis, using 3/8" x 1 1/4" BHCS w/pin limited thread.

   (Anti-wrap Swing Hangers) Attach chains to anti-wrap swing hanger clevis, using 3/8" x 7/8" BHCS w/pin limited thread.

5) **(ProGuard Chain)** Attach connector chain to back swing chains at dimension shown, using 3/8" x 7/8" BHCS w/pin & 3/8" jam nuts. Refer to Detail.

   (TenderTuff Chain) Attach connector chain to back swing chains at dimension shown, using 3/8" x 1 1/8" BHCS w/pin & 3/8" standard hex nuts with 3/8" SAE Flat Washers. Refer to Detail.

6) Attach footman loops, using #10-24 x 1/2" flat head screws, as shown. Footman loops are used for seat belts (not included).

7) Attach bumper to front of swing seat, using 3/8" x 7/8" BHCS w/pin with 3/8" SAE Flat Washers.

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

5/14/25 - Clarification and note added for swing hanger components being part of swing frame assembly.
ECO 0101646. Document 25974300 replaces 22554400. Added age appropriate message to swing yoke.

Specifications are subject to change without notice.

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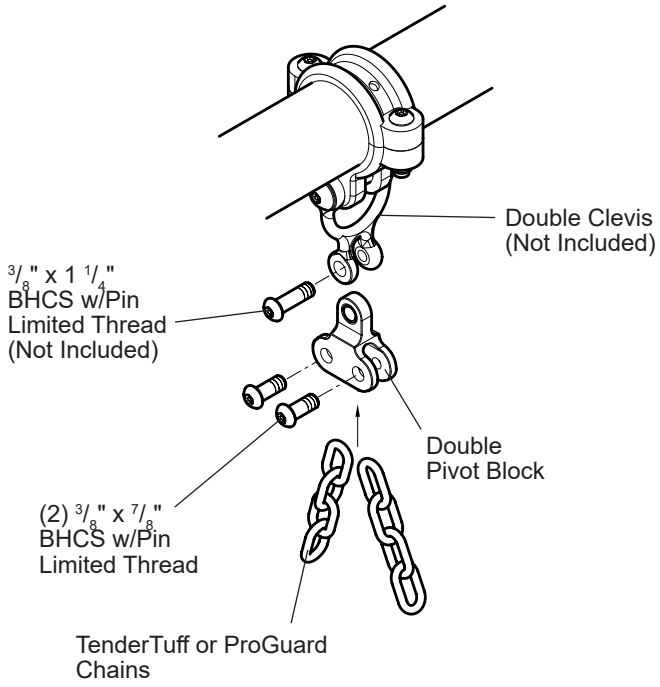
SAFETY NOTE

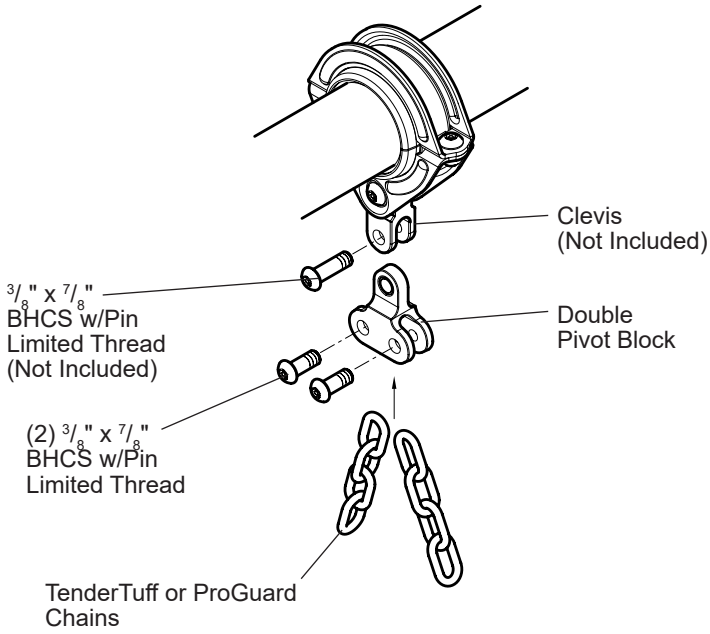
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. *ASTM F1487*.)

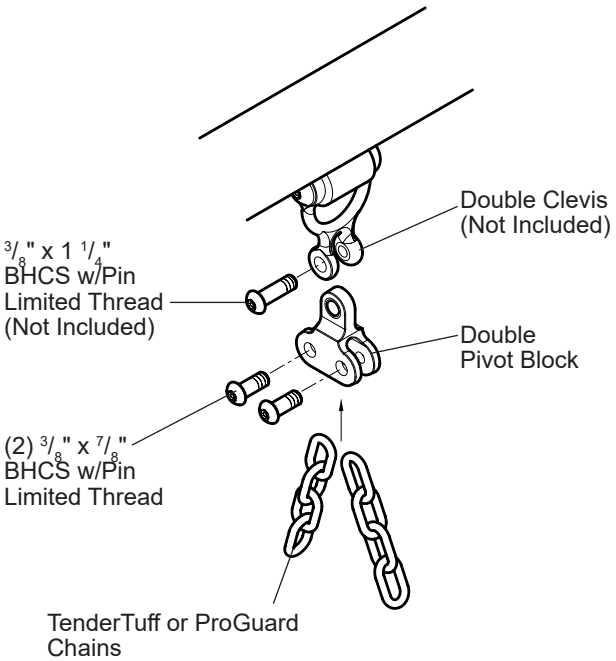
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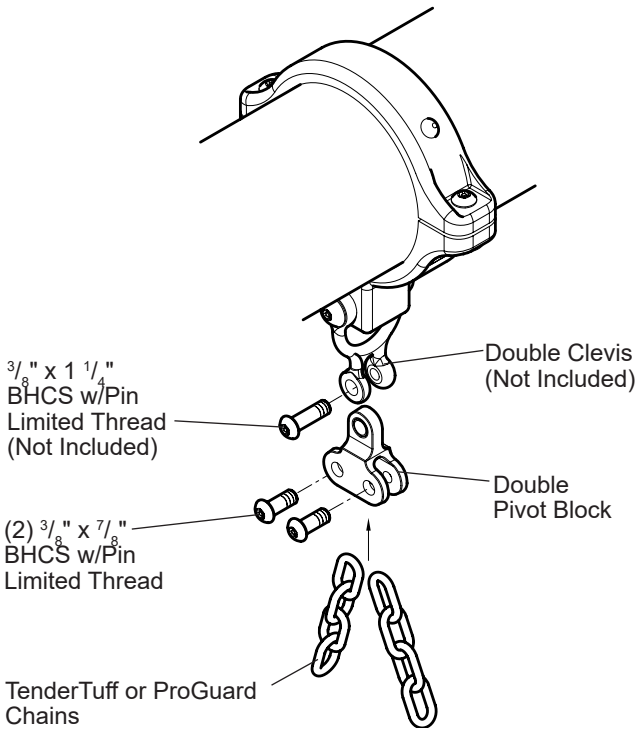
SWING HANGER OPTIONS

Swing Hanger Components included with Swing Frame.









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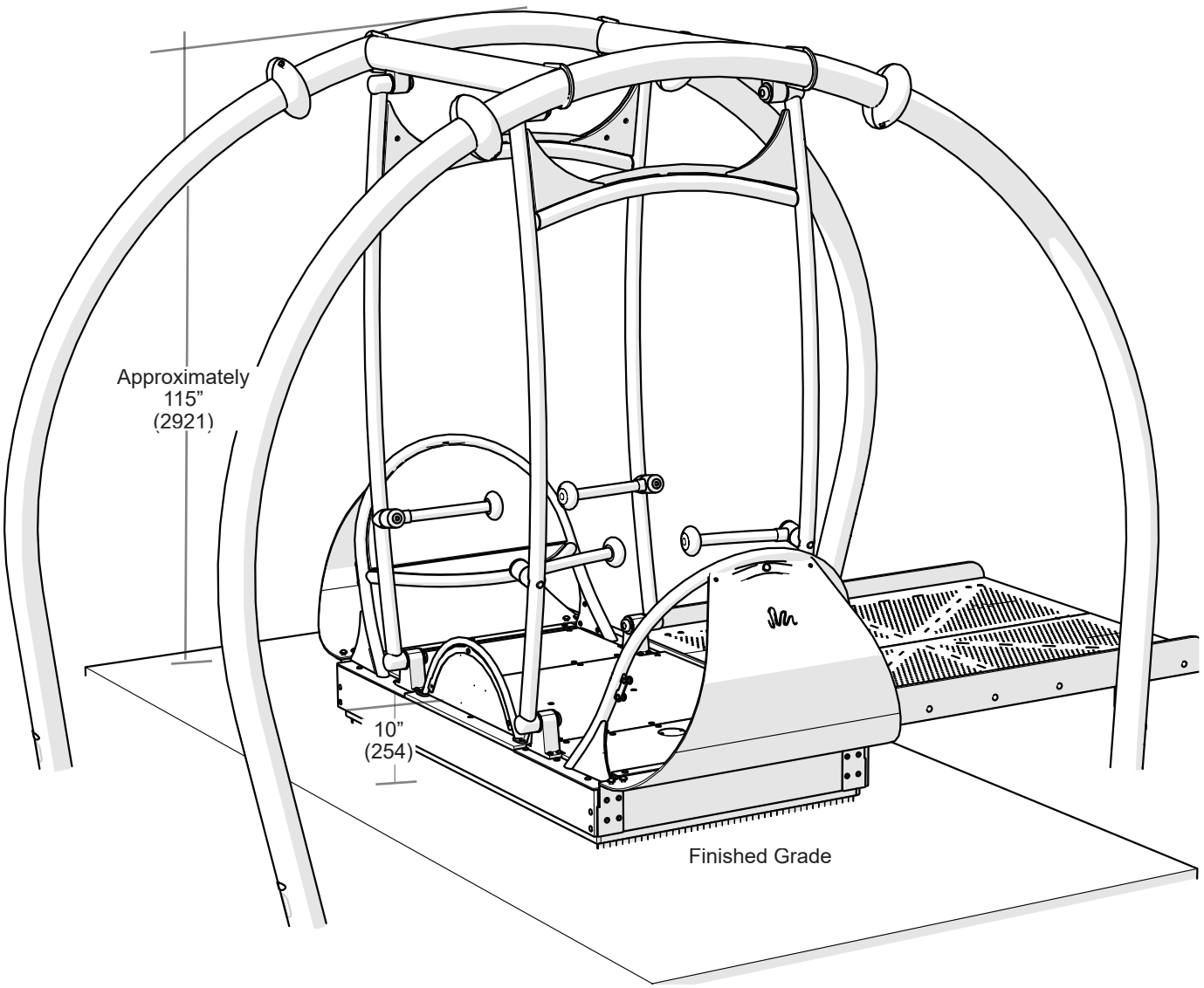
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SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



Freestanding Play

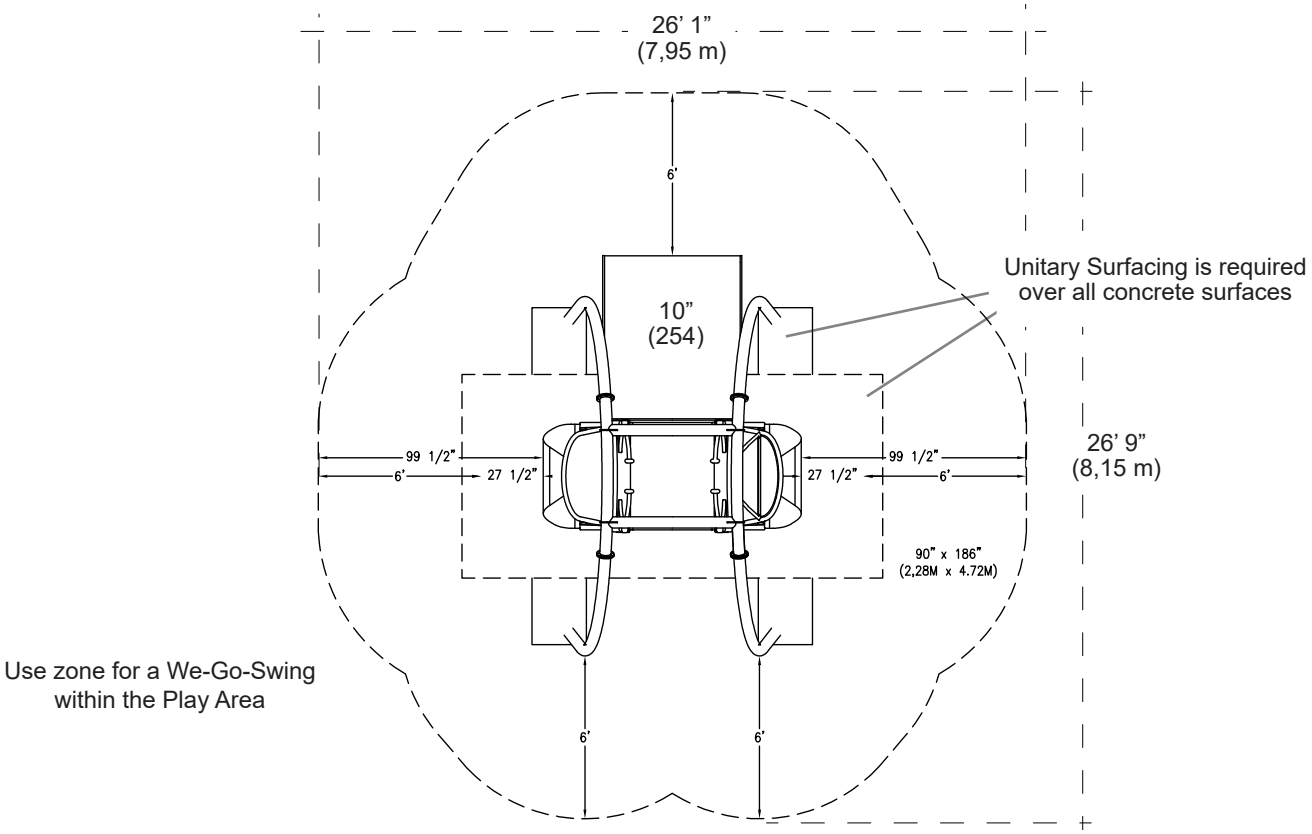
We-Go-Swing® 277778

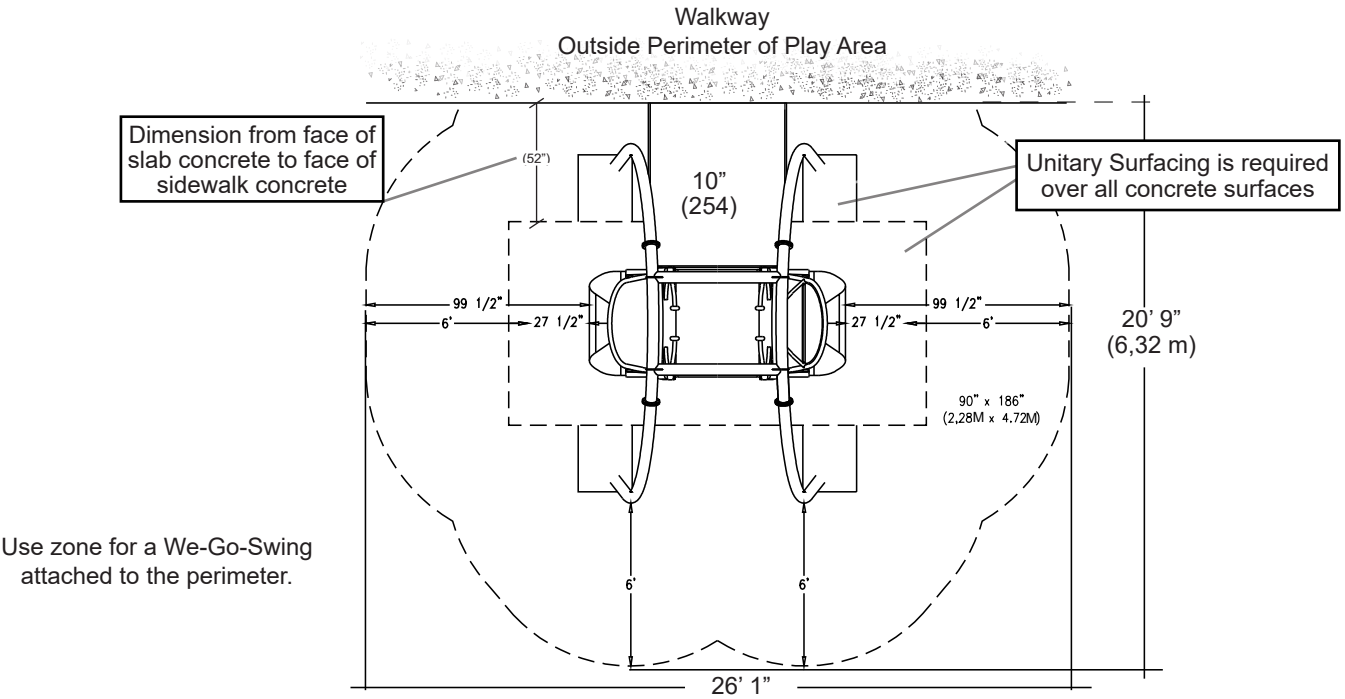
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Document #36462100

SITE LAYOUT



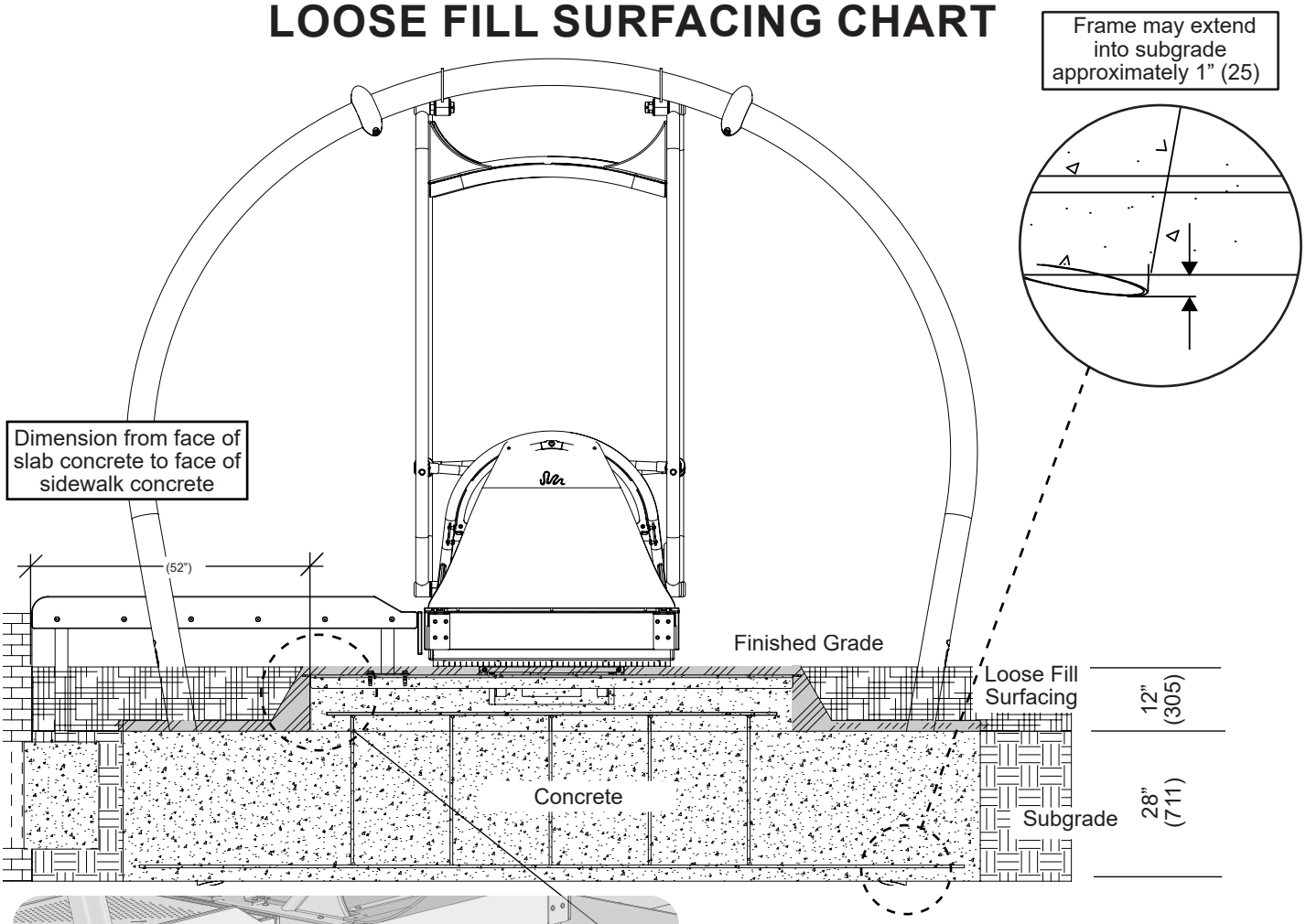


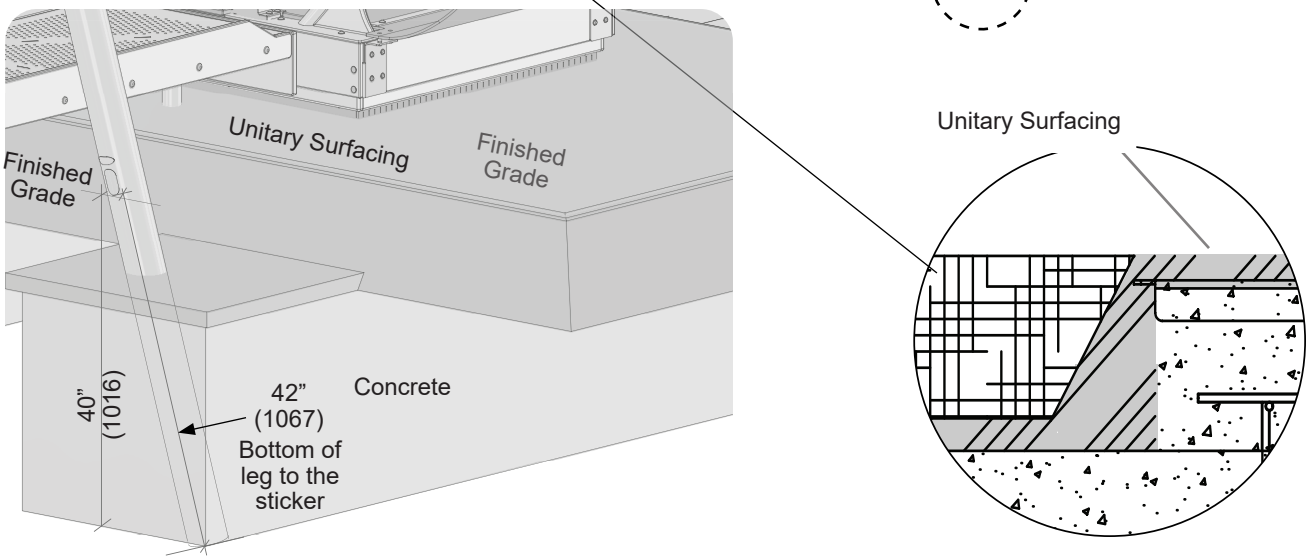
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LOOSE FILL SURFACING CHART





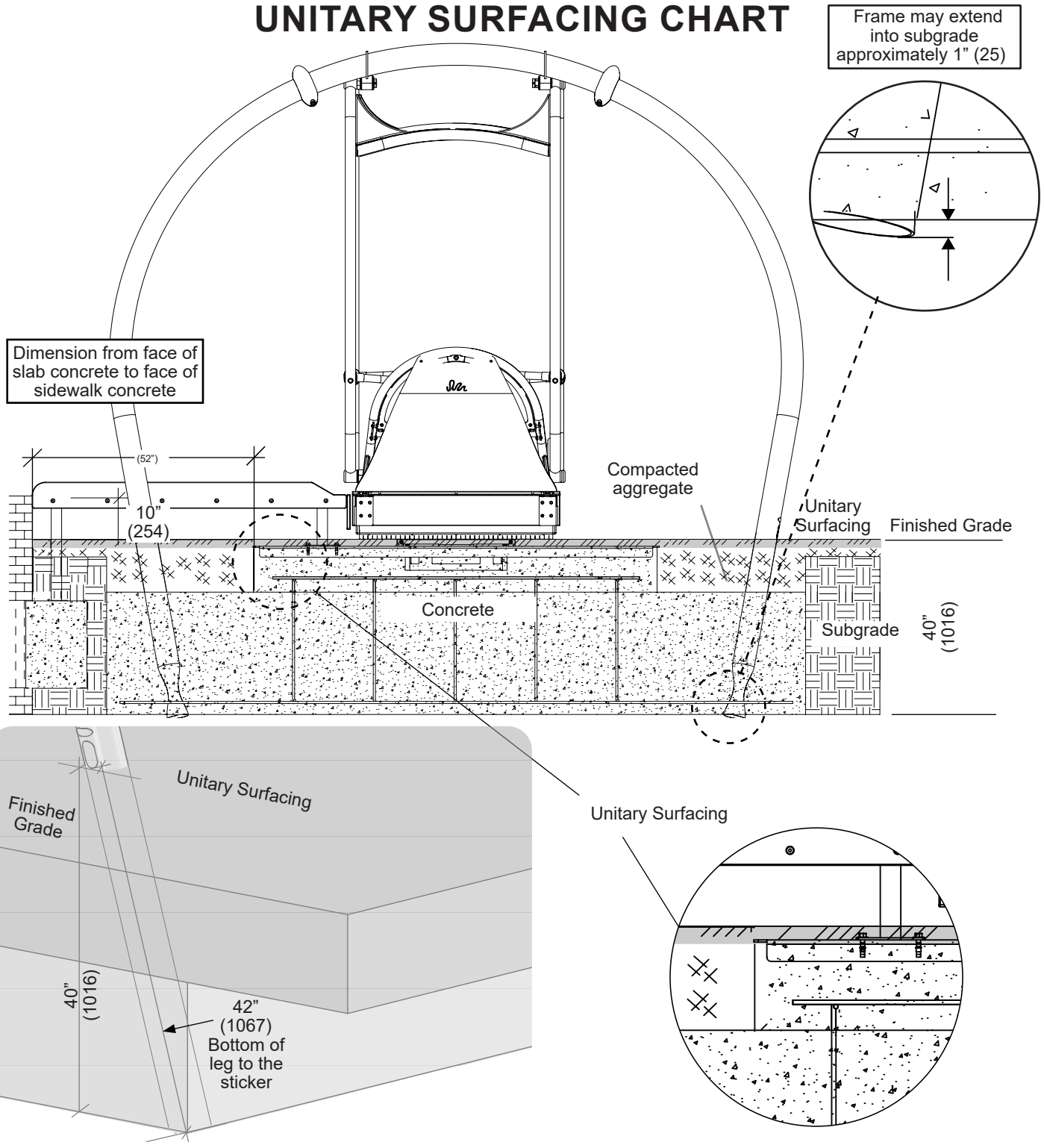
1 ½”-2” Unitary surfacing with a turn-down, covering concrete. Back fill with loose fill surfacing.

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UNITARY SURFACING CHART

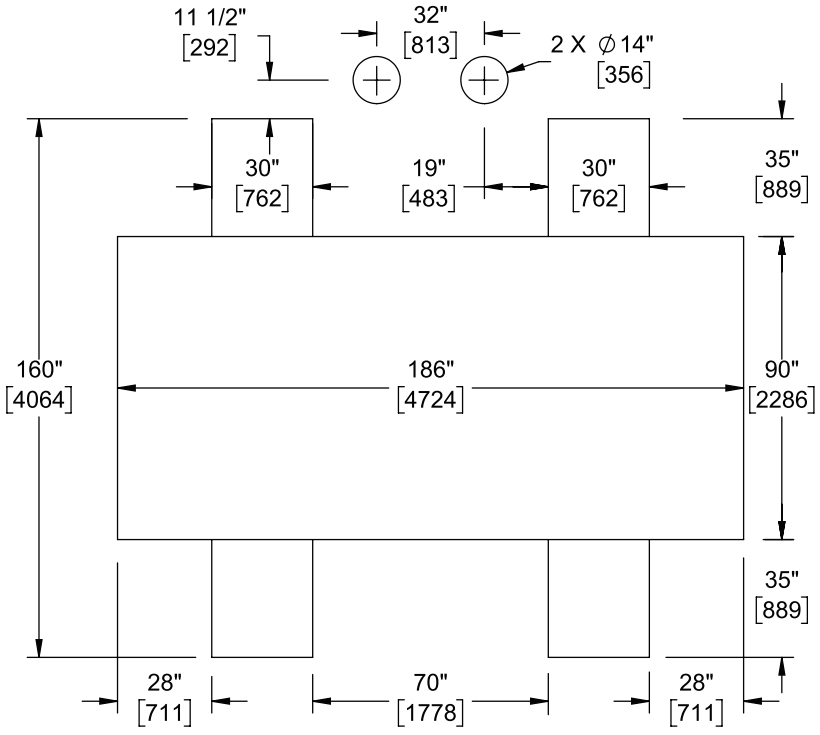


1 ½”-2” Unitary surfacing covering concrete and subgrade

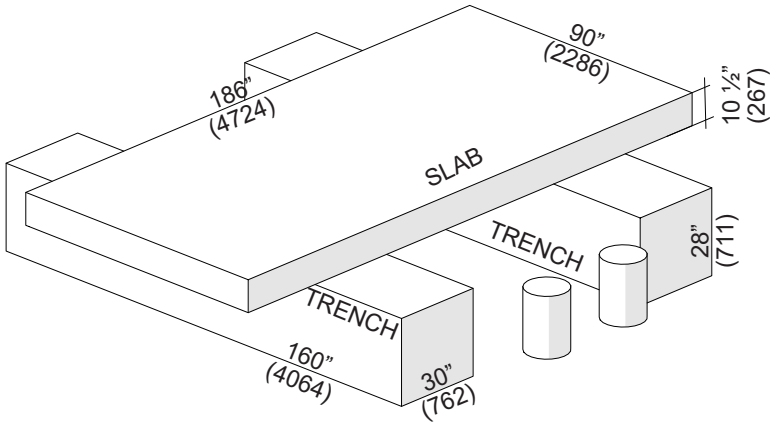
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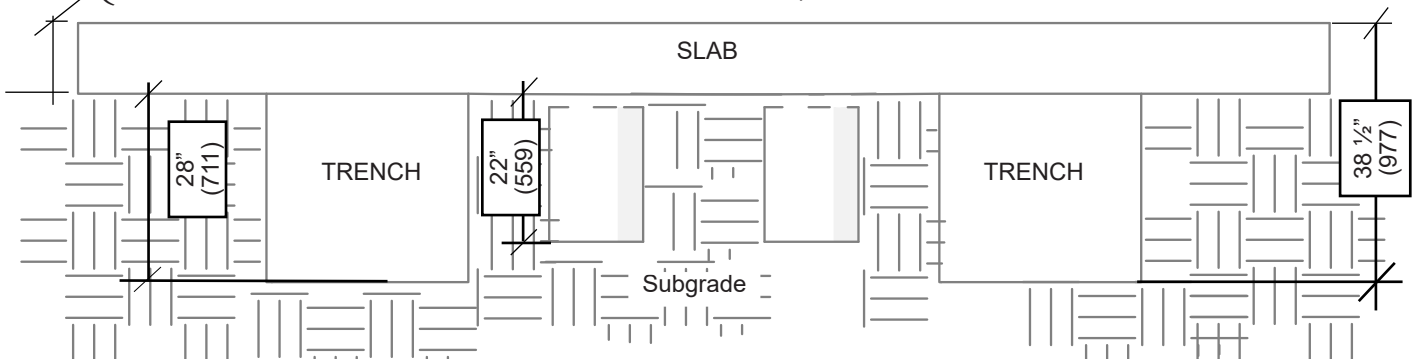
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CONCRETE FOOTING CHART



NOTE: CONCRETE IS A SINGLE POUR

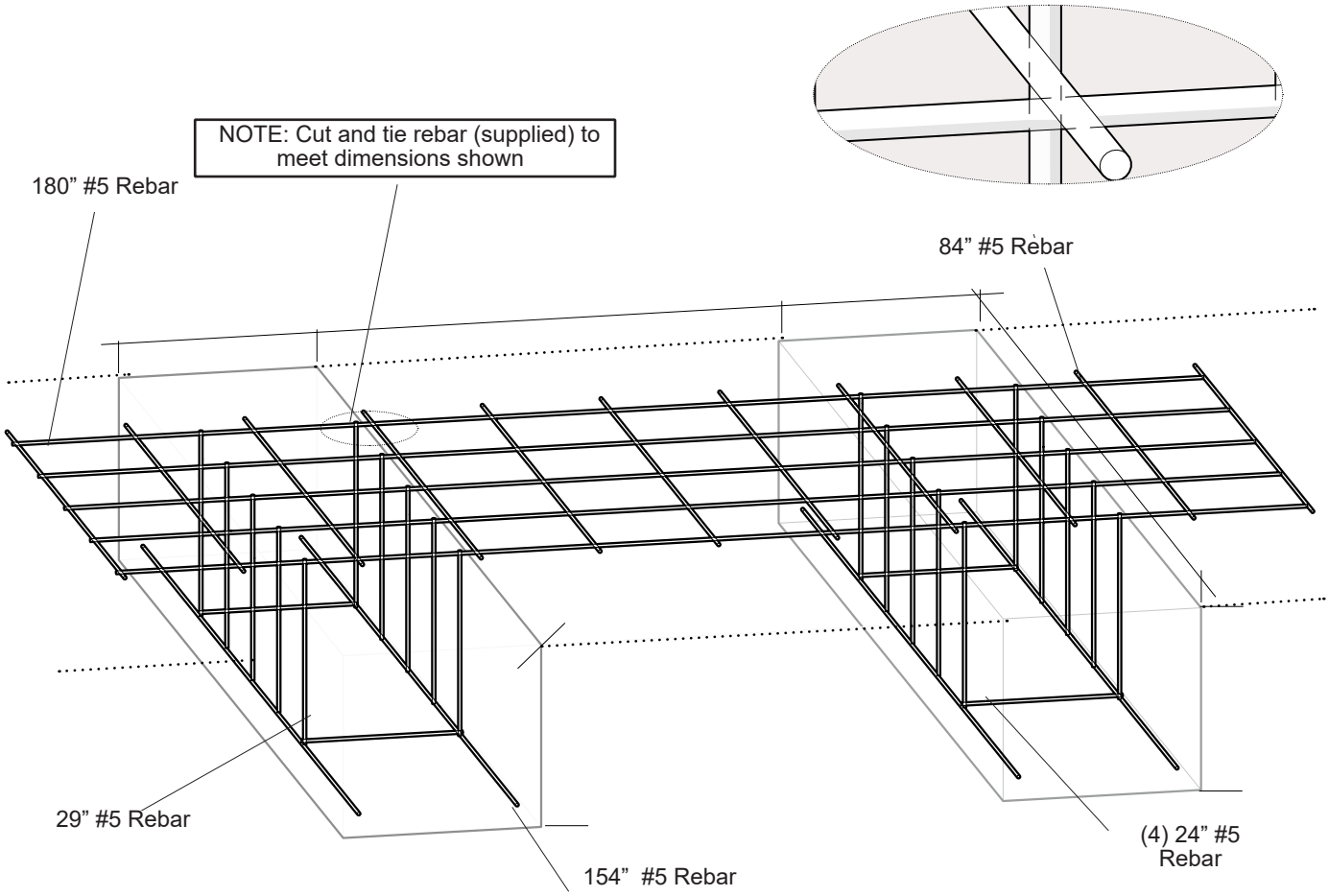


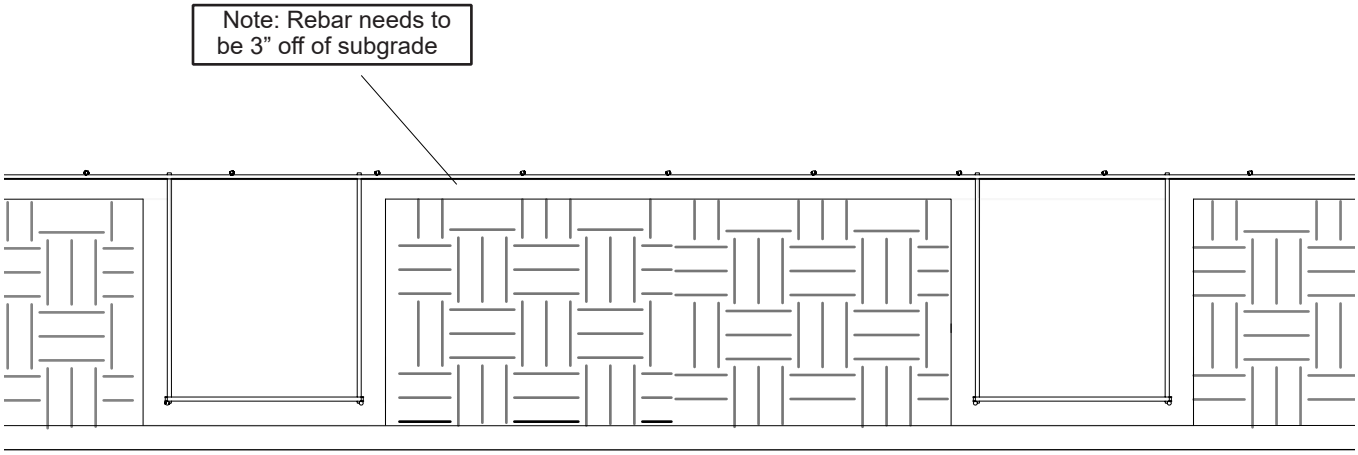


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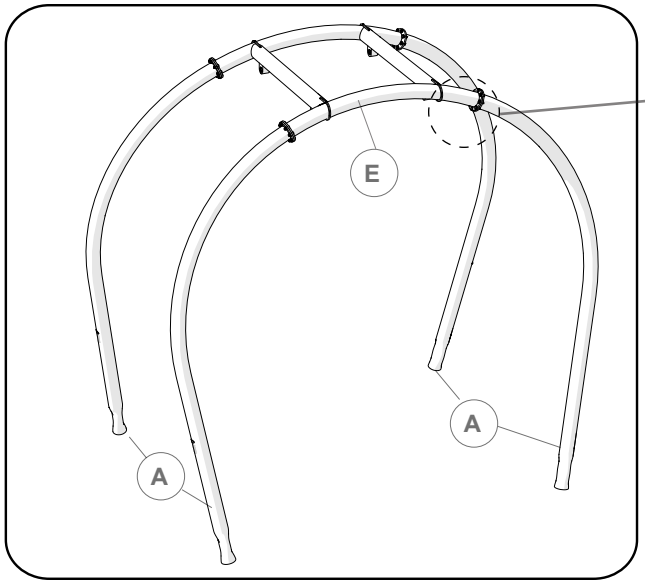
FOOTING CHART

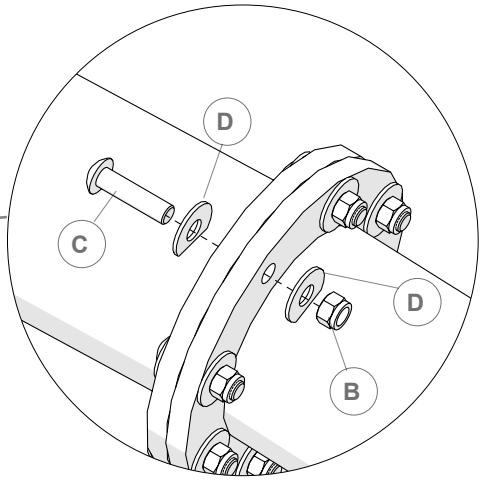




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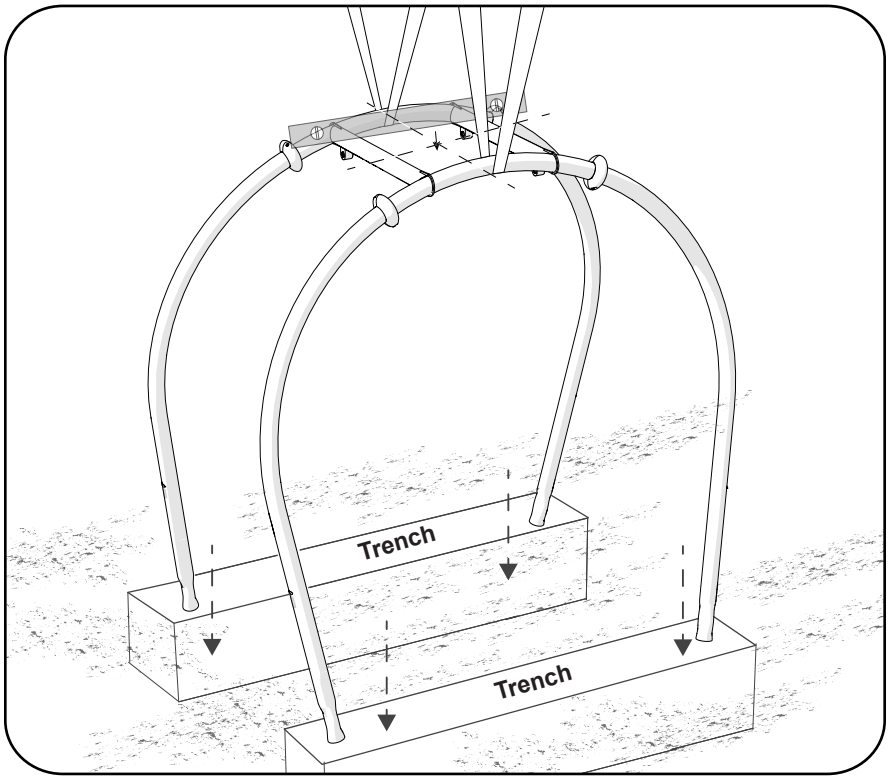


NOTE: Leave hardware loose until frame is lowered into the trenches.

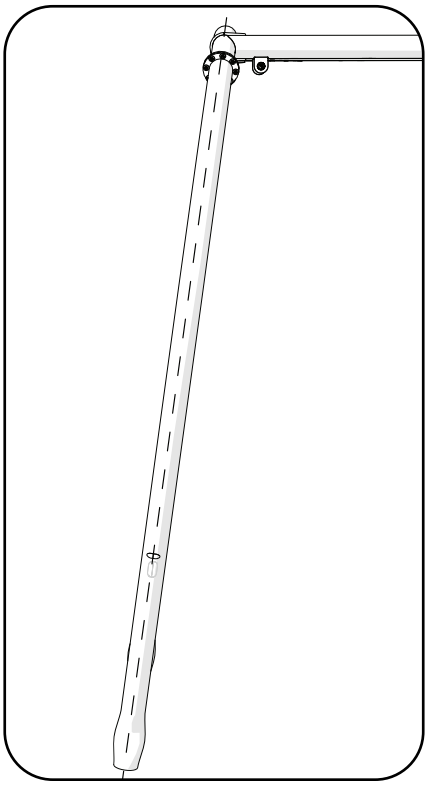
*	Part #	Description	Qty.
A	274807	Inclusive Swing Frame Leg	4
B	100330	Nut Hex Nylok 7⁄16 - 14 SST	32
C	234397	BHCS 6lp LTHD 7⁄16 x 1.688”	32

*	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.



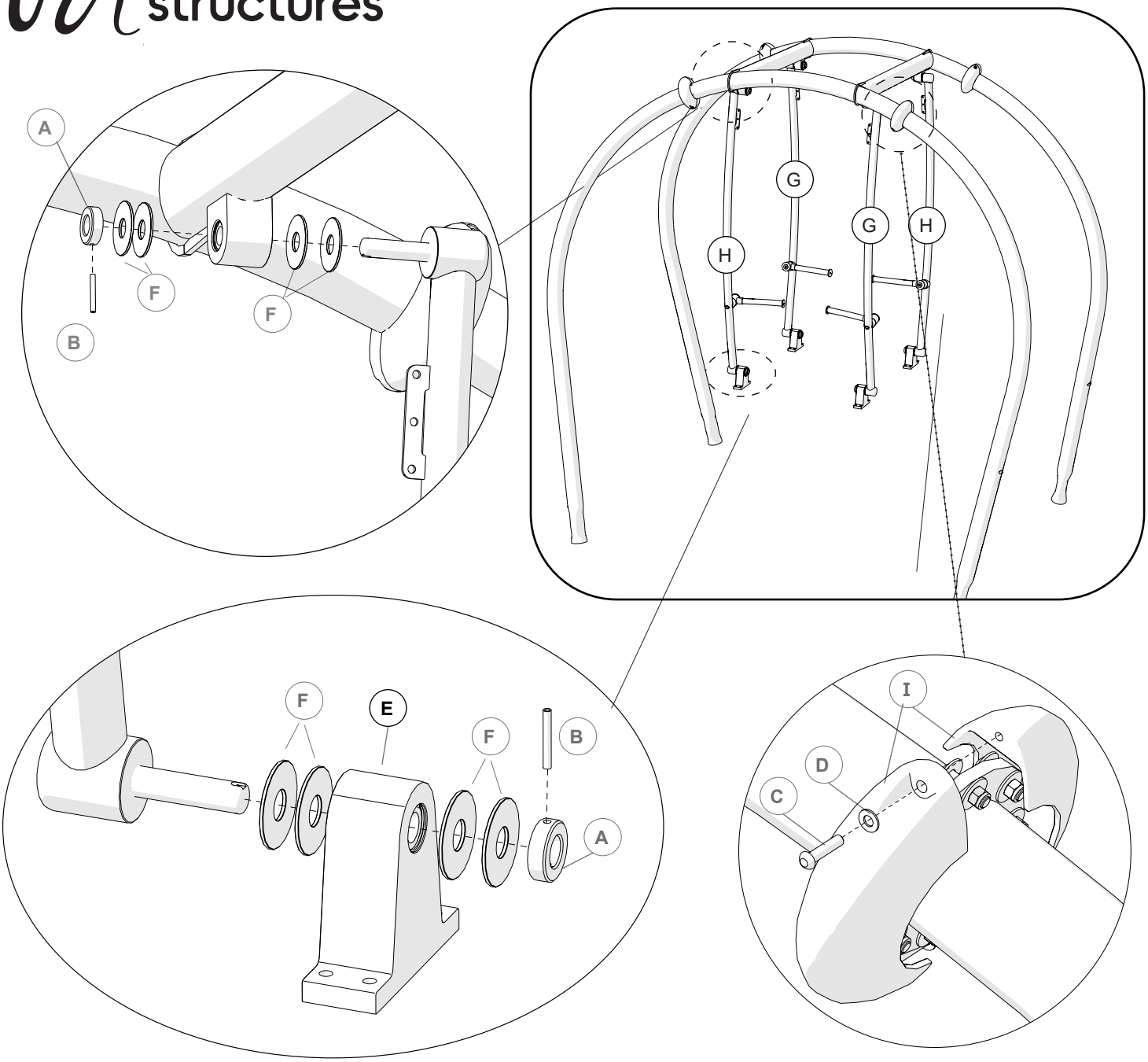
NOTE: Verify the legs are lined up with the swing frame ASM on both sides. SECURE HARDWARE ONCE VERIFIED



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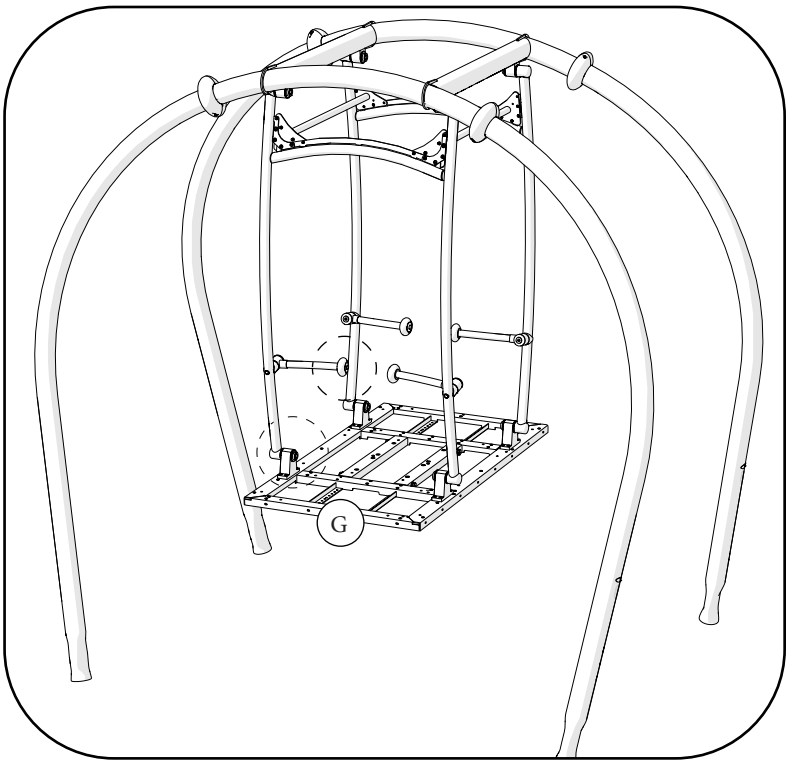


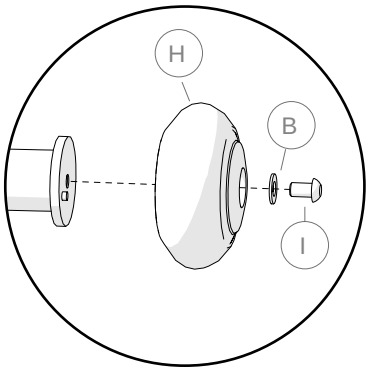
*	Part #	Description	Qty.
A	137779	Collar SST Sway Fun	8
B	121135	Spring Pin 1/4iodx2lg SST	8
C	123224	BHCS 6LP 3/8x1-11/16i SST	8
D	100365	3/8" SAE Washer	8
E	274909	Deck Mount Swing Pivot Anchor ASM	4

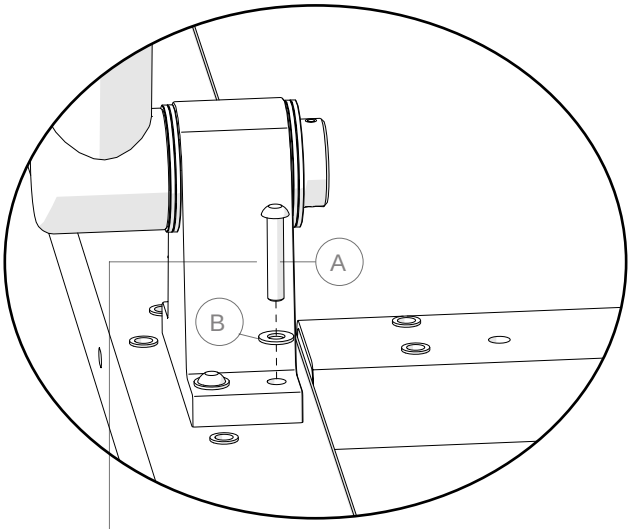
*	Part #	Description	Qty.
F	271755	Swing Arm Thrust Bearing	32
G	318463	Swing Arm Rh ASM	2
H	318464	Swing Arm Lh ASM	2
I	279176	5i Flange Cover Casting PNT	8

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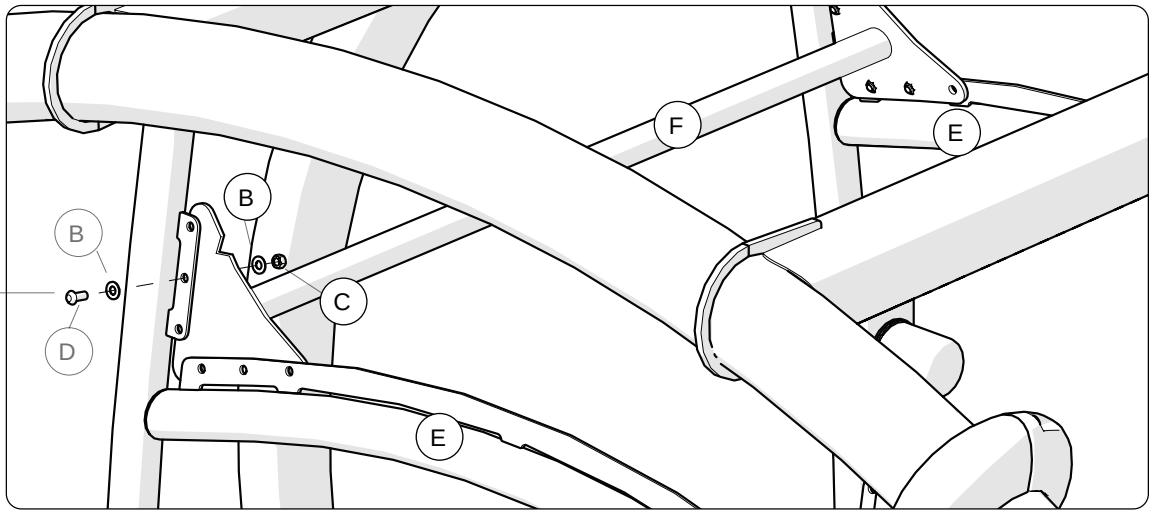
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NOTE: Temporary hardware has gray anti-seize.



*	Part #	Description	Qty.
A	127549	⅜" x 1 11⁄16" 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

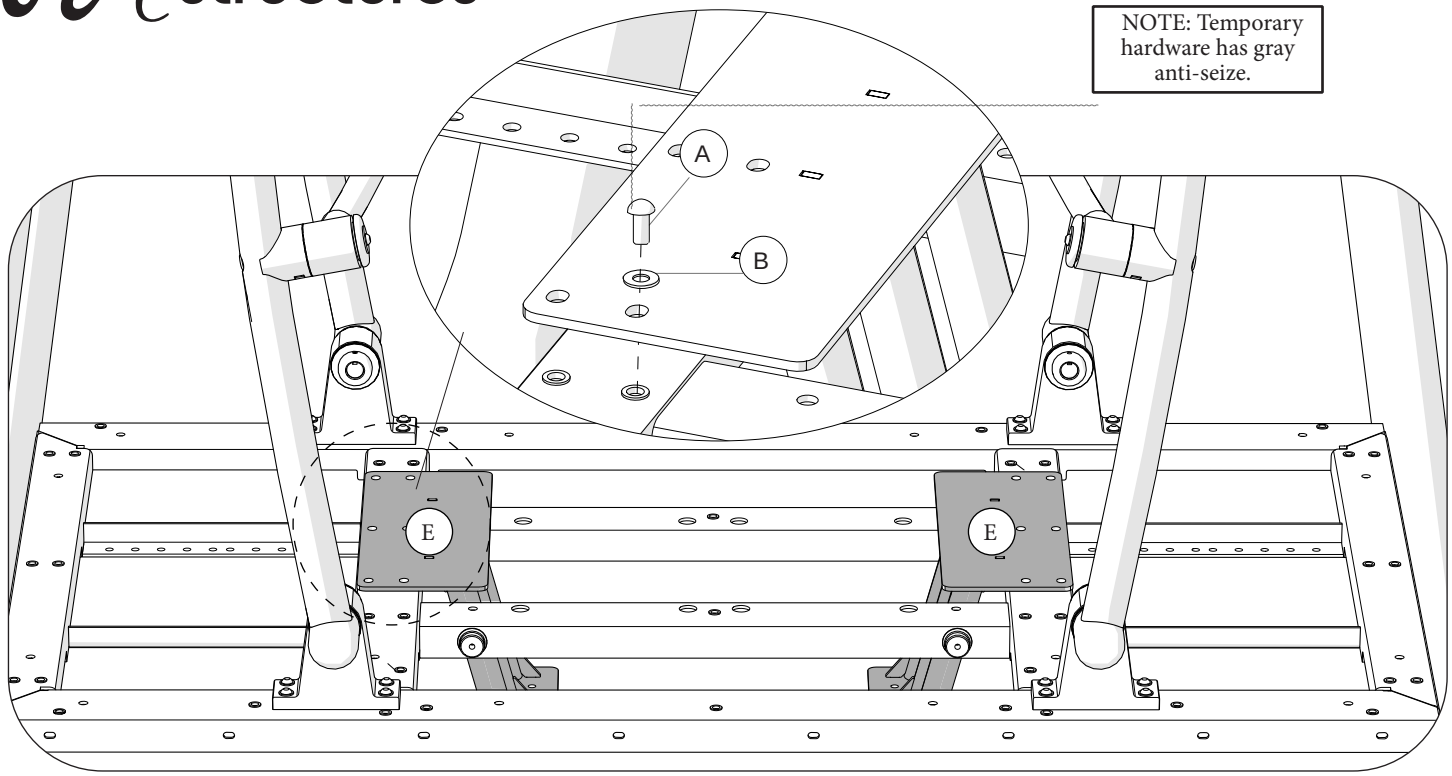
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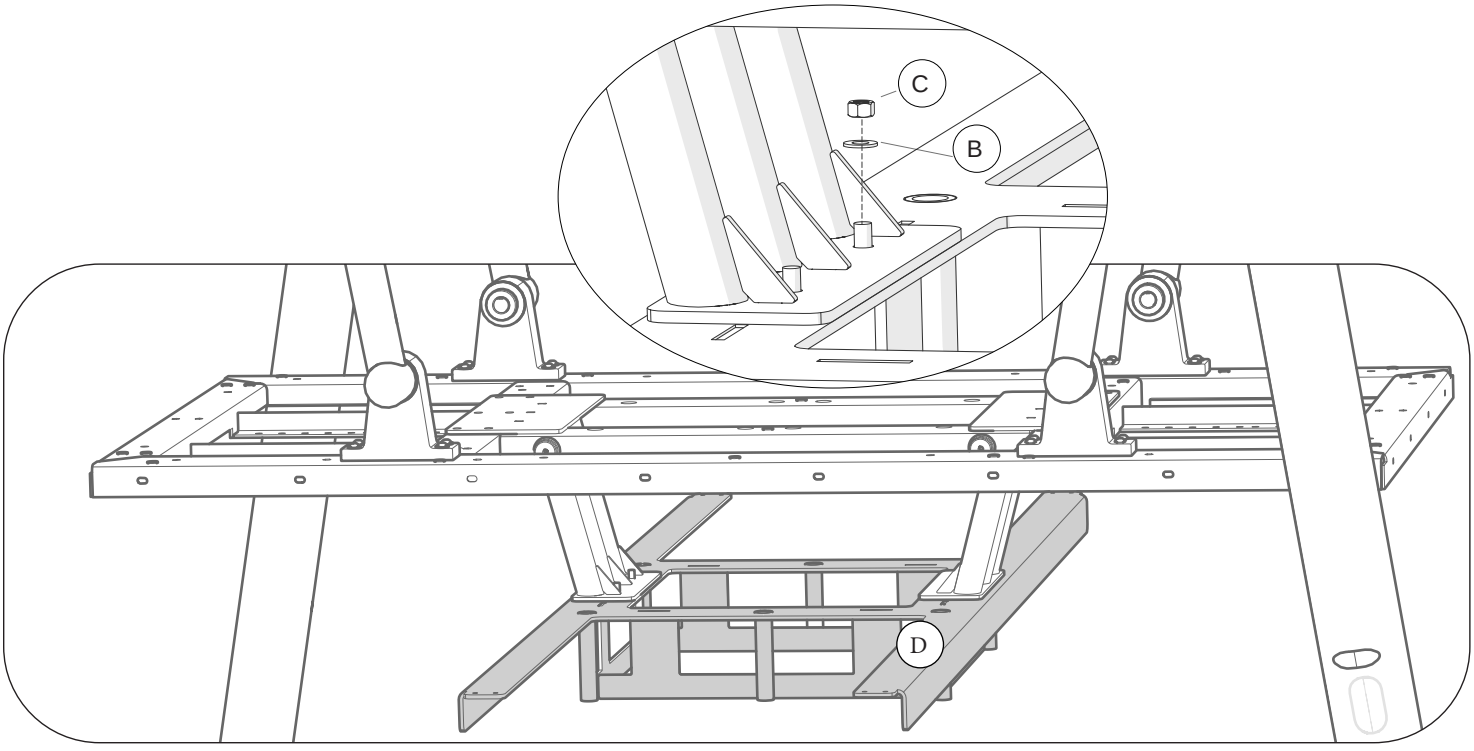
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NOTE: Temporary hardware has gray anti-seize.



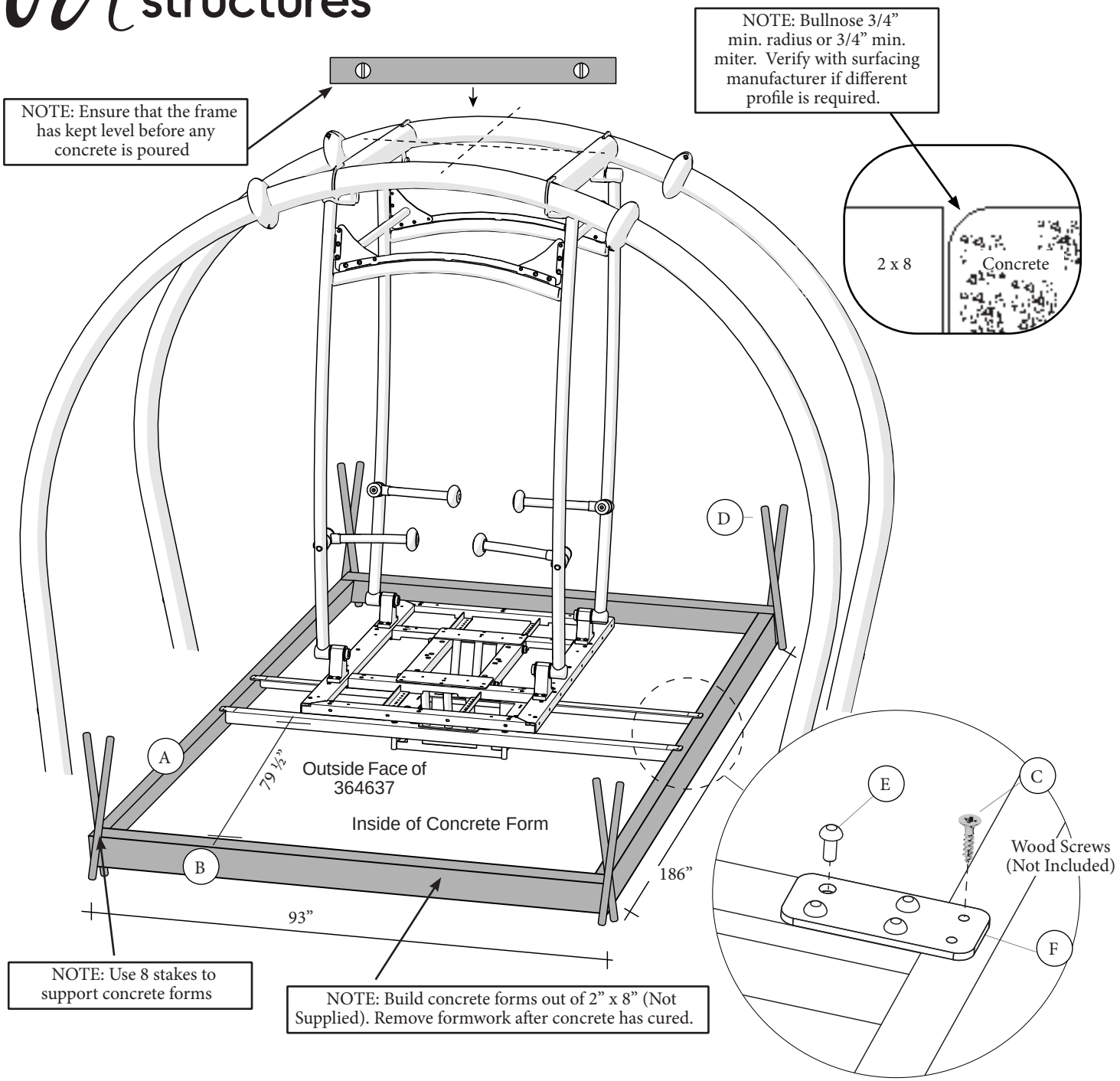


*	Part #	Description	Qty.
A	127546	$^{3}/_{8}$ x $^{7}/_{8}$" Anti-Seize (Temporary)	12
B	100365	$^{3}/_{8}$" SAE Washer (Temporary)	16

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

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

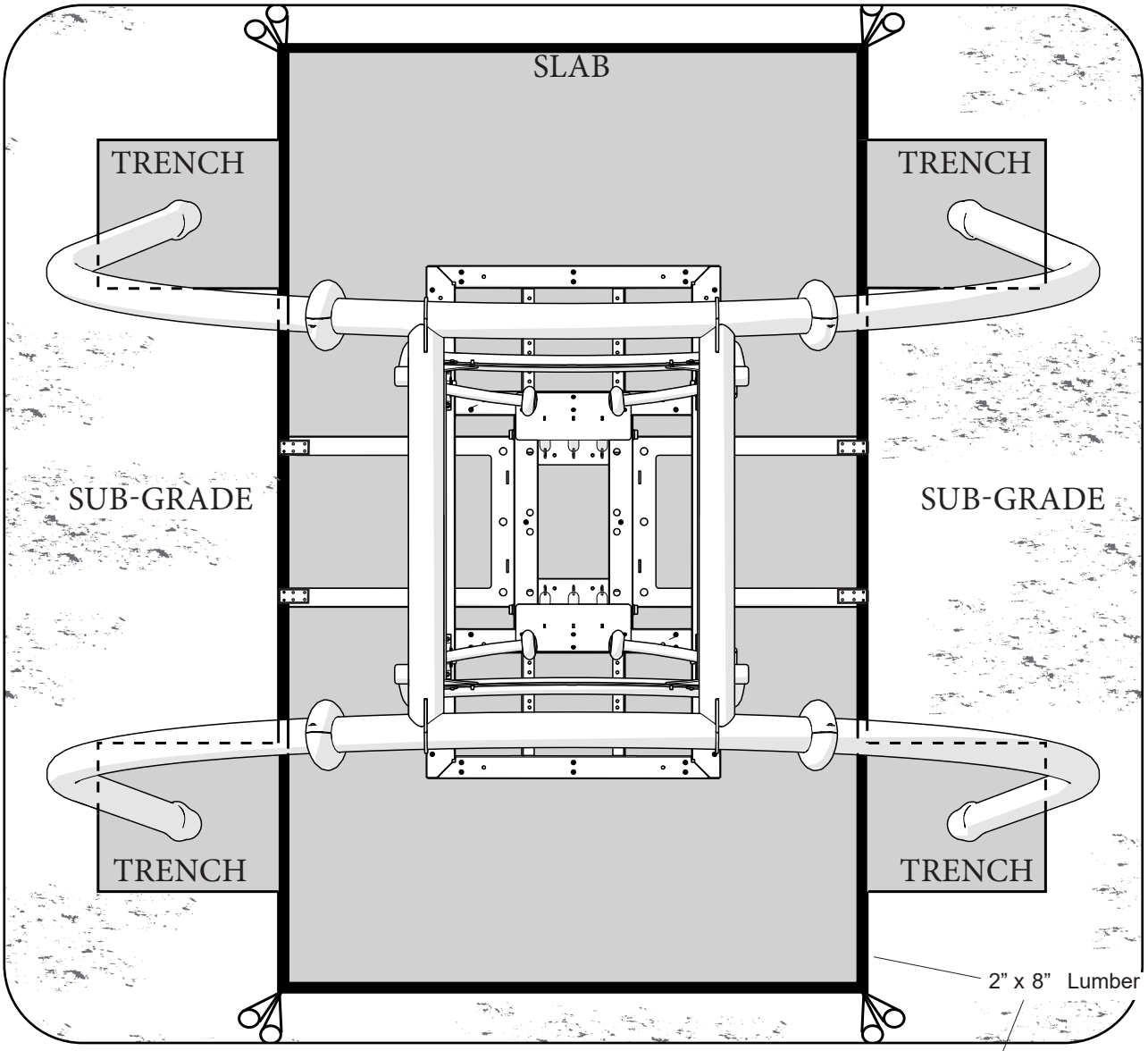
*	Part #	Description	Qty.
A	X	2" x 8" Lumber - 186" (Temporary)	2
B	X	2" x 8" Lumber - 93" (Temporary)	2
C	X	Wood Screws (Temporary)	X

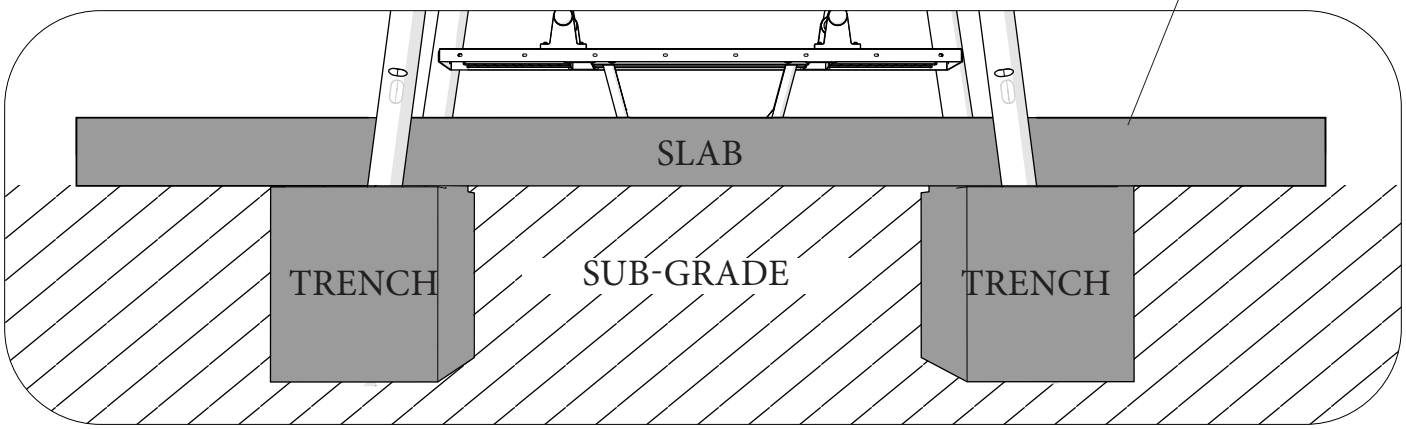
*	Part #	Description	Qty.
D	X	Concrete Stakes (Temporary)	X
E	127546	⅜ x ⅞" Anti-Seize (Temporary)	16
F	364640	Anchor Cage Plate, RED (Temporary)	4

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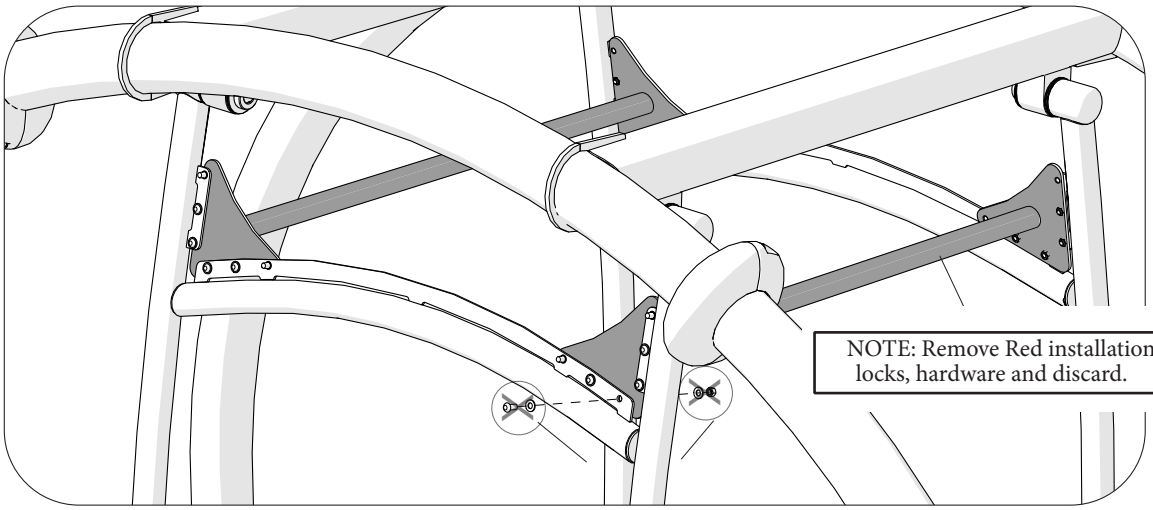
SINGLE POUR CONCRETE

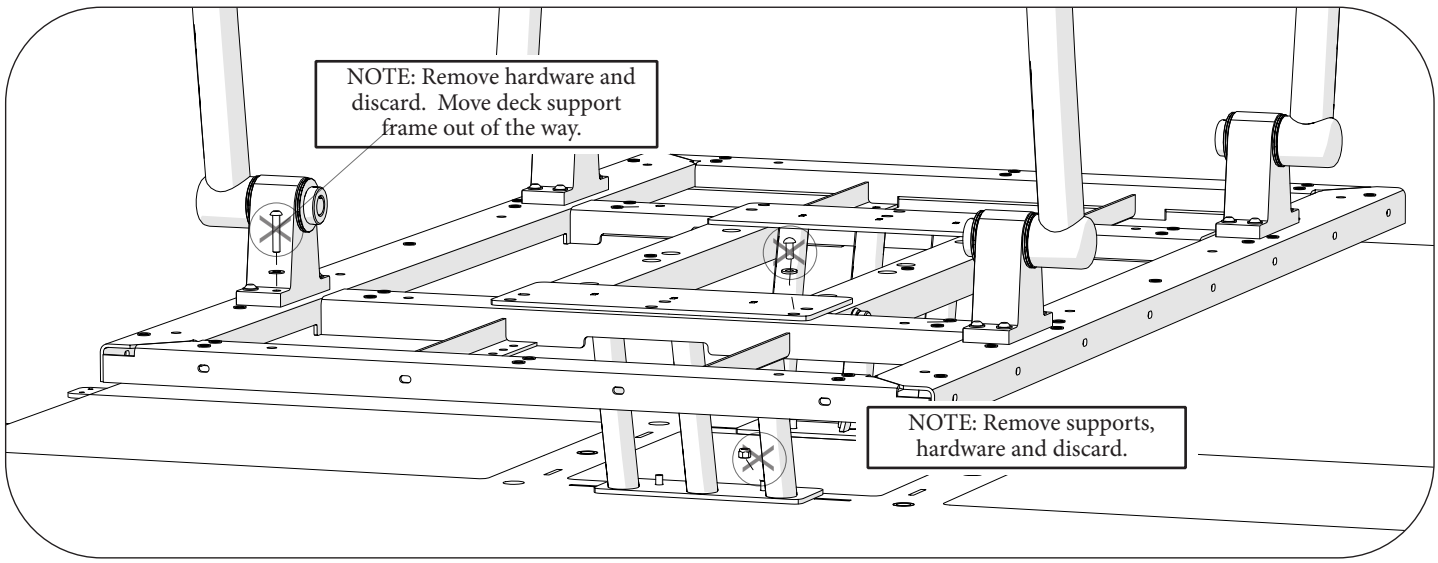


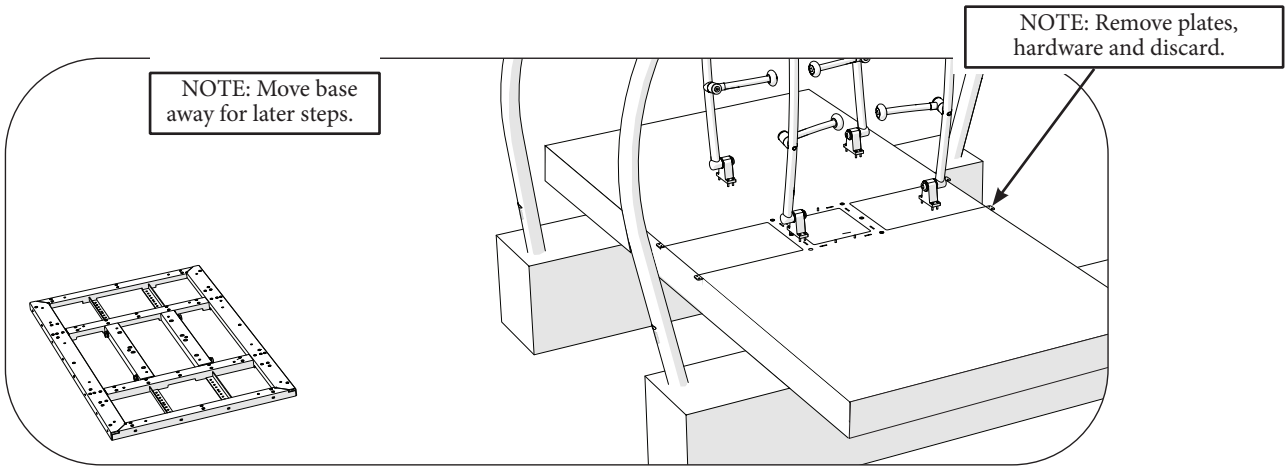


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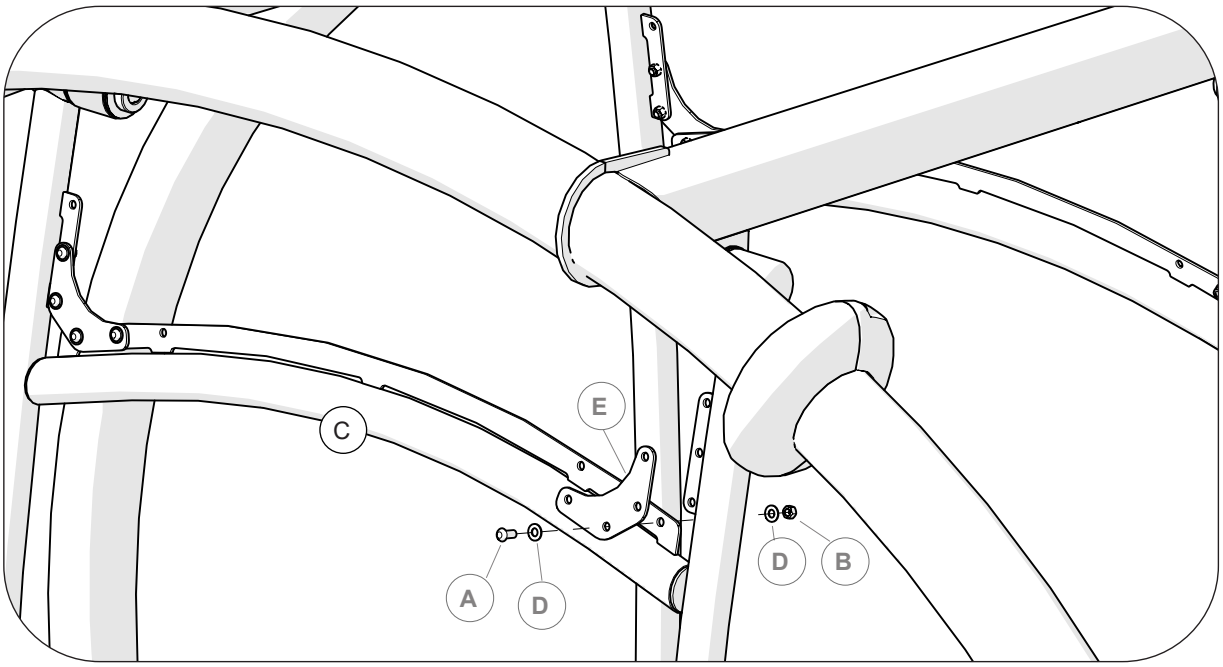
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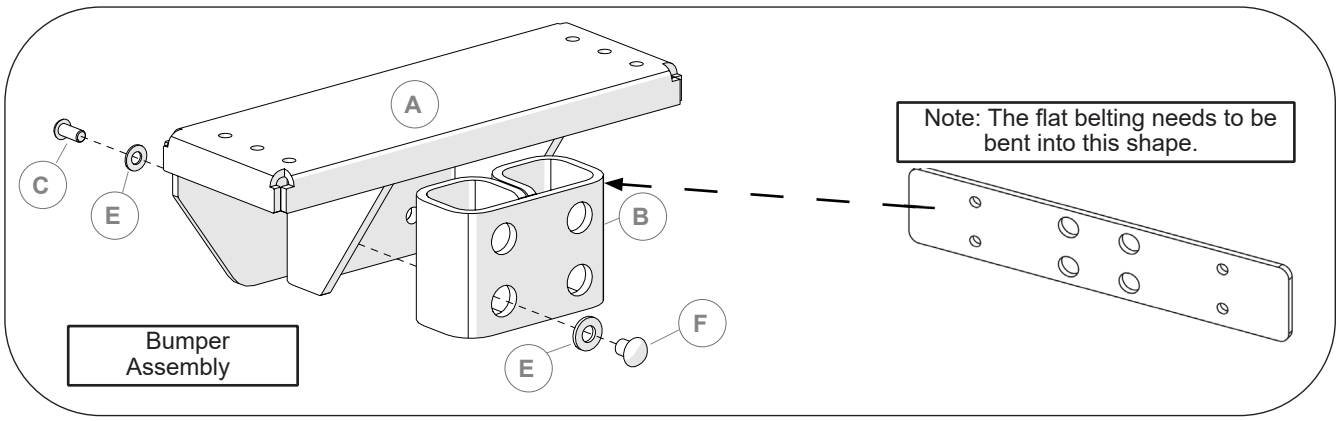


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*	Part #	Description	Qty.
A	100196	3/8 x 7/8" BHCS	16
B	100327	3/8" Standard Hex Nut	16
C	274078	Swing arm brace	2

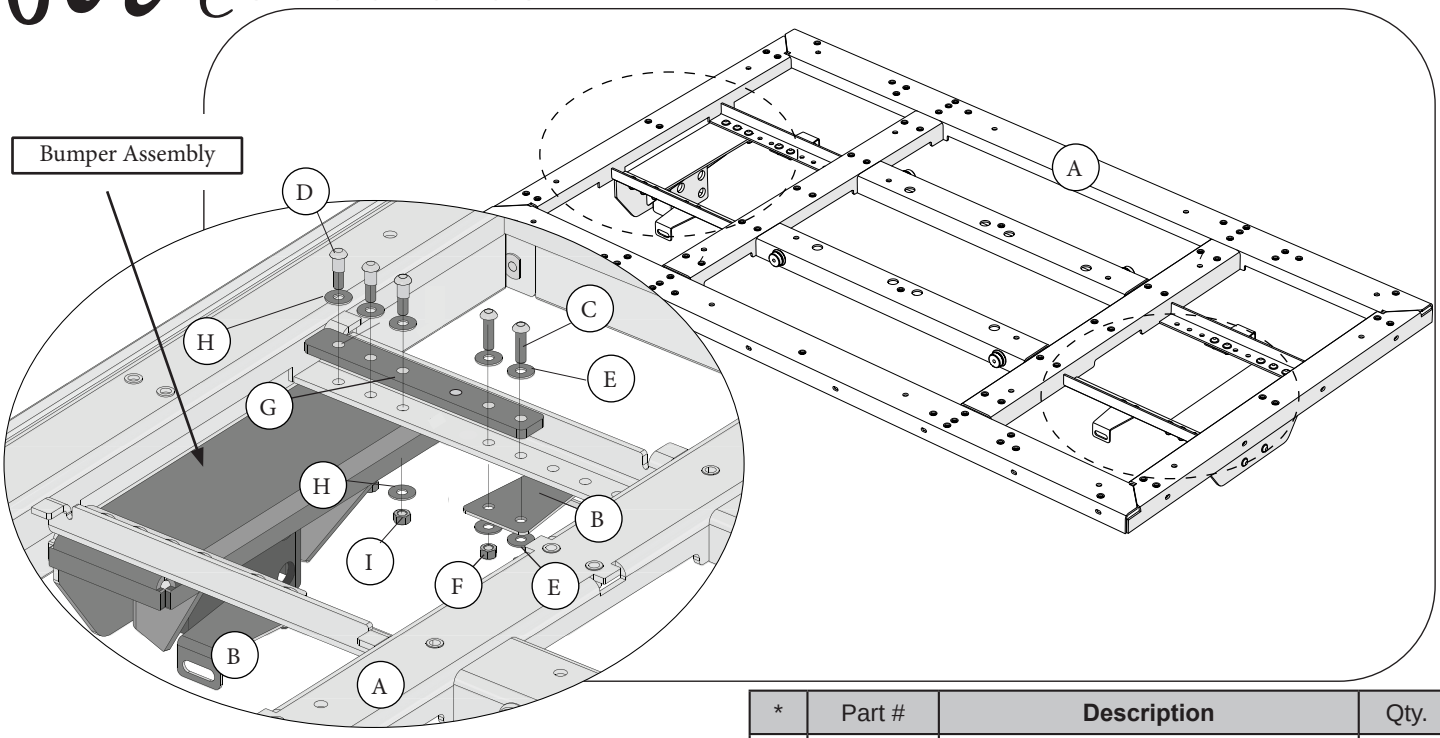
*	Part #	Description	Qty.
D	100365	3/8" SAE Washer	32
E	278682	Swing Arm Mending Plt	4



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

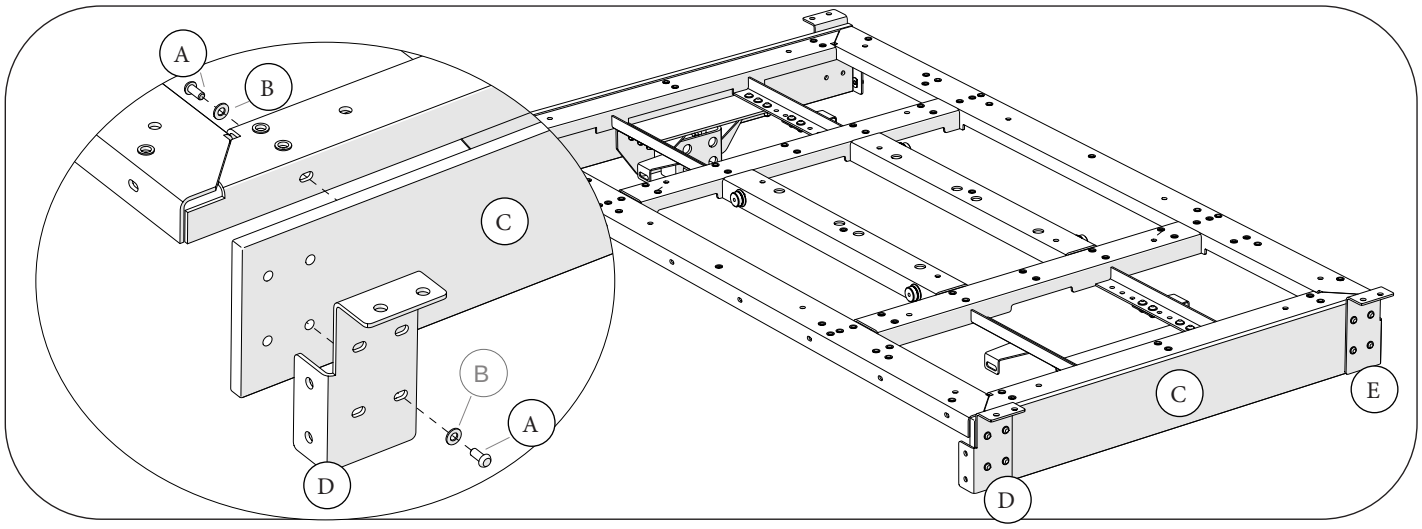
*	Part #	Description	Qty.
D	100365	3/8" SAE Washer	8
E	113550	Washer Flat SAE 1/2i SST	8
F	100353	Flg Nut 6lp 3/8-16 SST	8

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

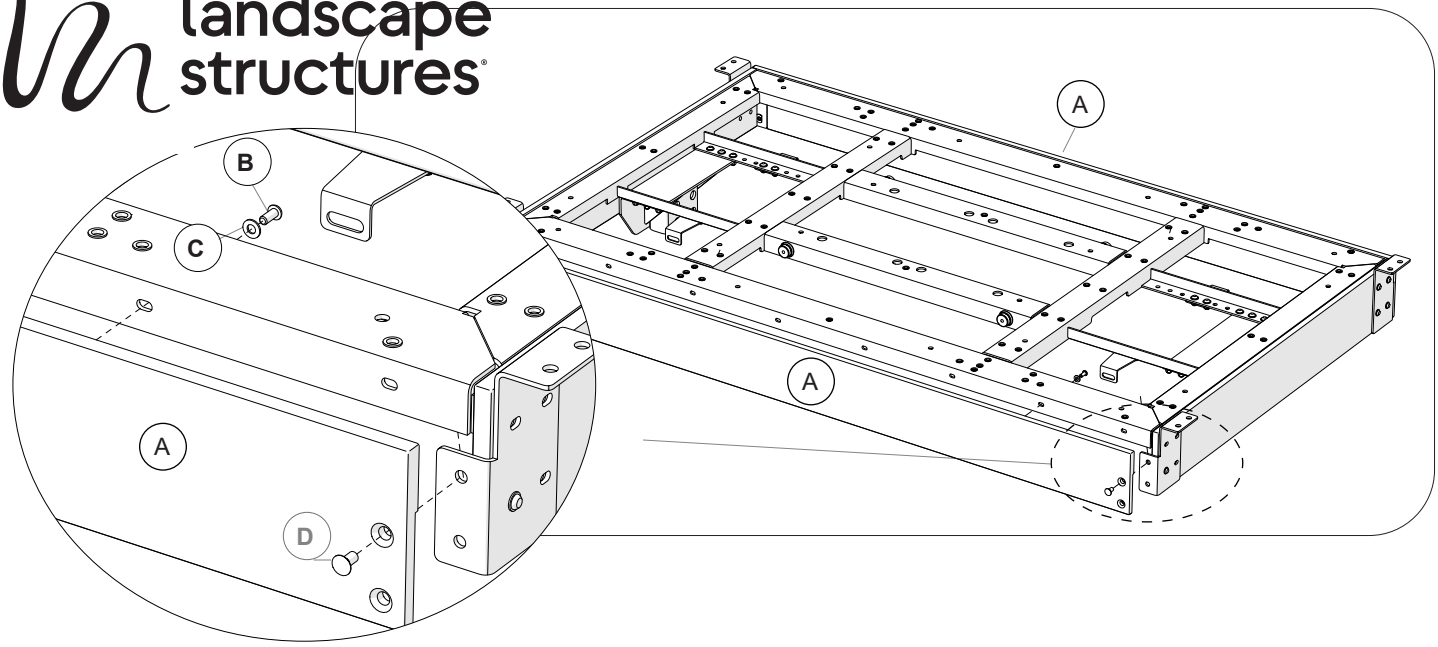
*	Part #	Description	Qty.
E	100362	$^{3}/_{8}$" FLAT Washer	16
F	100327	$^{3}/_{8}$" Standard Hex Nut	8
G	284809	Soft stop frame doubler	4
H	112793	Washer Flat 7/'16i SST	24
I	100330	Nut Hex Nylok 7/16 - 14 SST	12



*	Part #	Description	Qty.
A	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS	24
B	223956	$^{5}/_{16}$" 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

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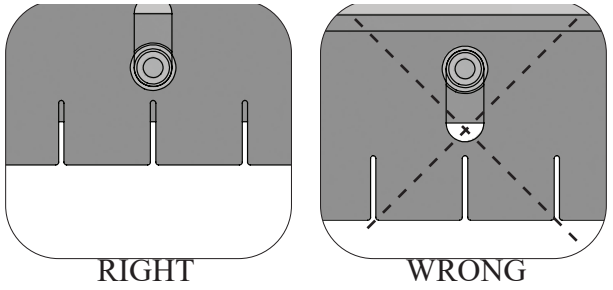


*	Part #	Description	Qty.
A	271540	Deck Skirt Side	2
B	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS	16

*	Part #	Description	Qty.
C	223956	$^{5}/_{16}$" 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

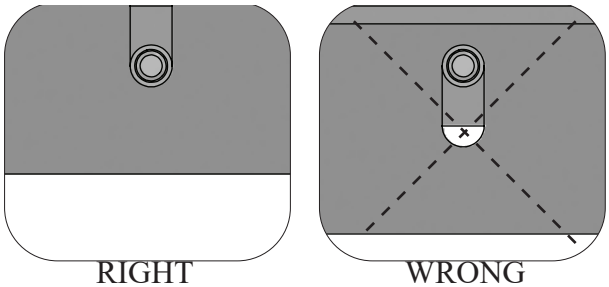


*	Part #	Description	Qty.
A	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS Torx	10
B	223956	$^{5}/_{16}$" SAE Flat Washer	20
C	264971	5/16" - 18 x 1"	10
D	271624	Trolley Track Frame	1

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

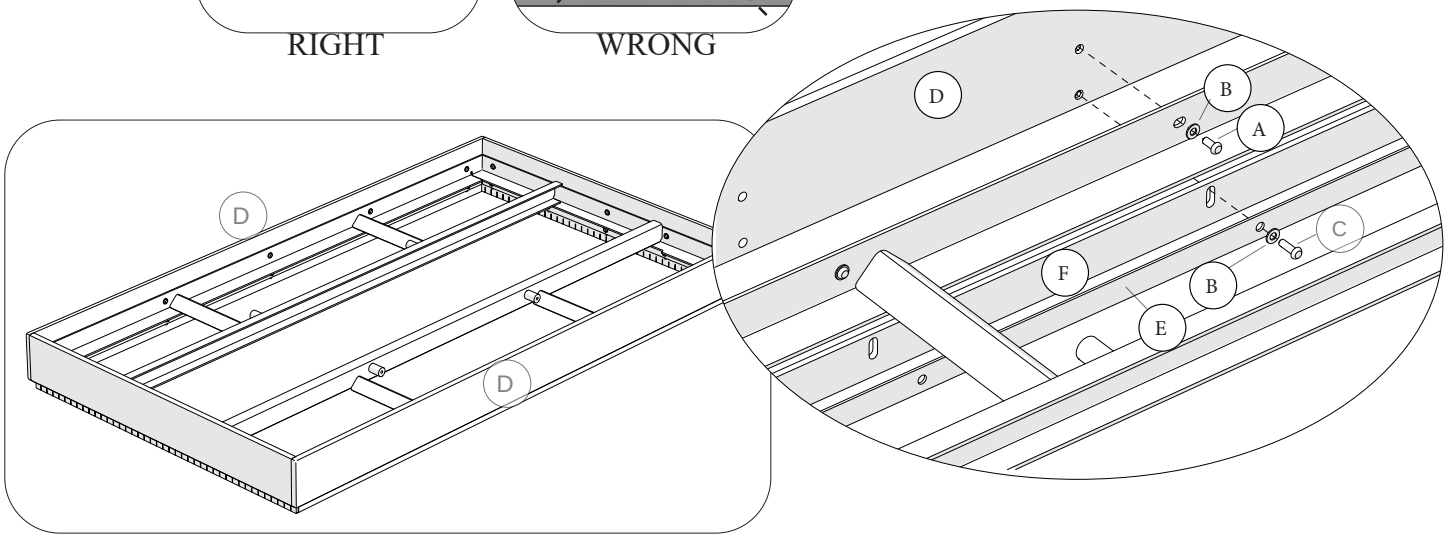
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NOTE: SWEEPER NEEDS TO BE POSITIONED AT THE BOTTOM OF THE SLOTS



RIGHT WRONG

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

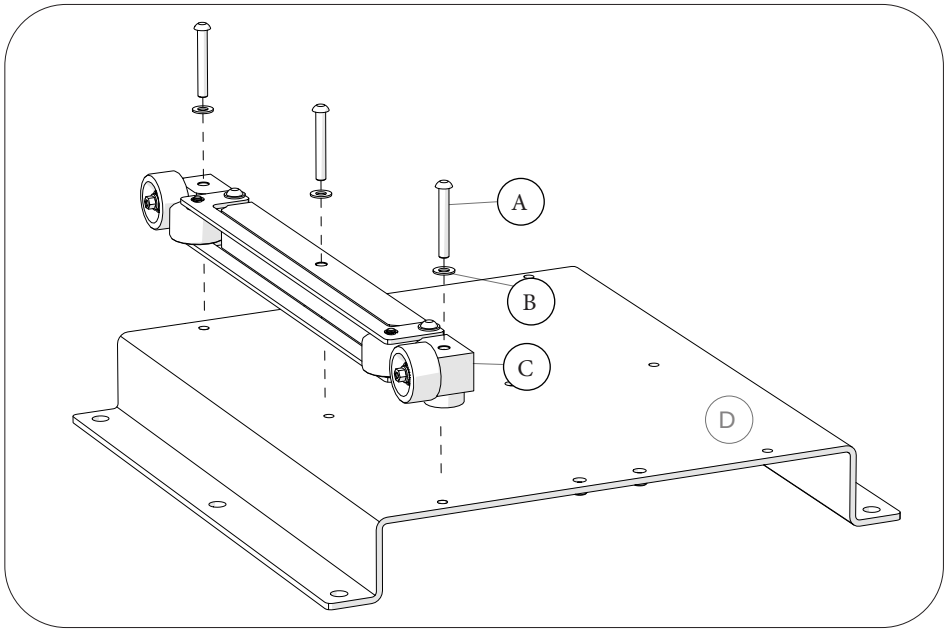


*	Part #	Description	Qty.
A	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS Torx	10
B	223956	$^{5}/_{16}$" SAE Flat Washer $^{5}/_{16}$"	20
C	264971	5/16" - 18 x 1"	10

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

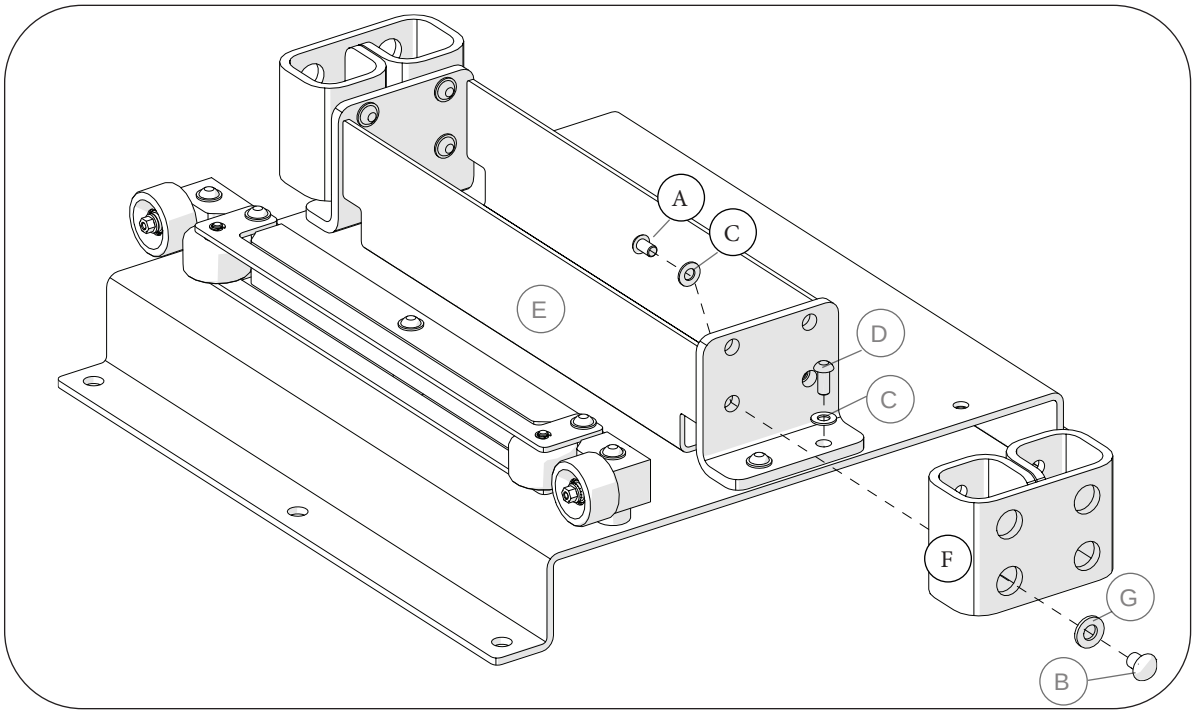
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*	Part #	Description	Qty.
A	100175	3/8x2-3/4i	3
B	100365	3/8" SAE Washer	3

*	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

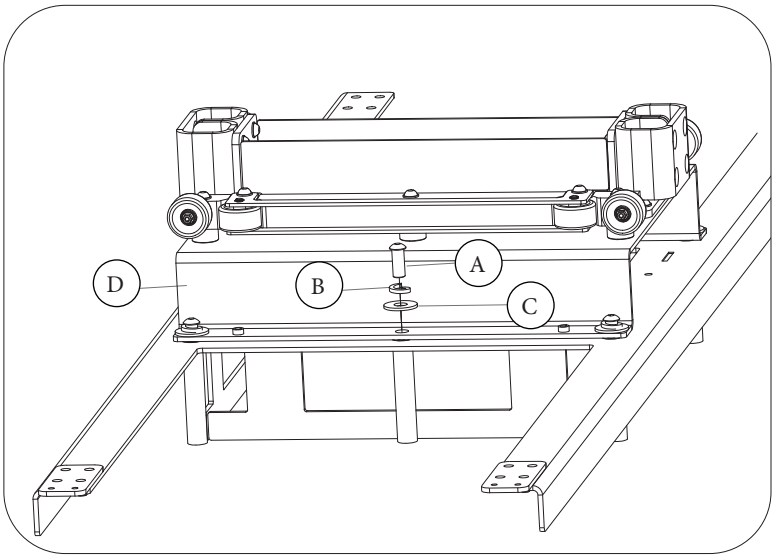
*	Part #	Description	Qty.
D	100196	3/8 x 7/8" BHCS	6
E	273329	Soft Stop Frame	1
F	279974	Belt Bumper Stop	2
G	113550	Washer Flat SAE 1/2i SST	8

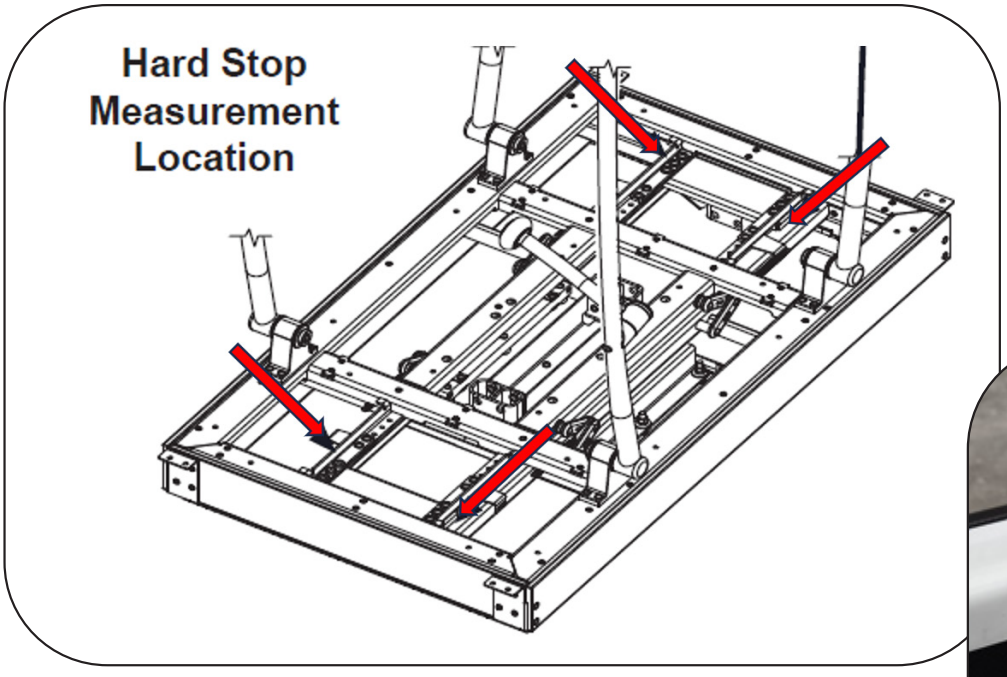
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Spacer Details

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

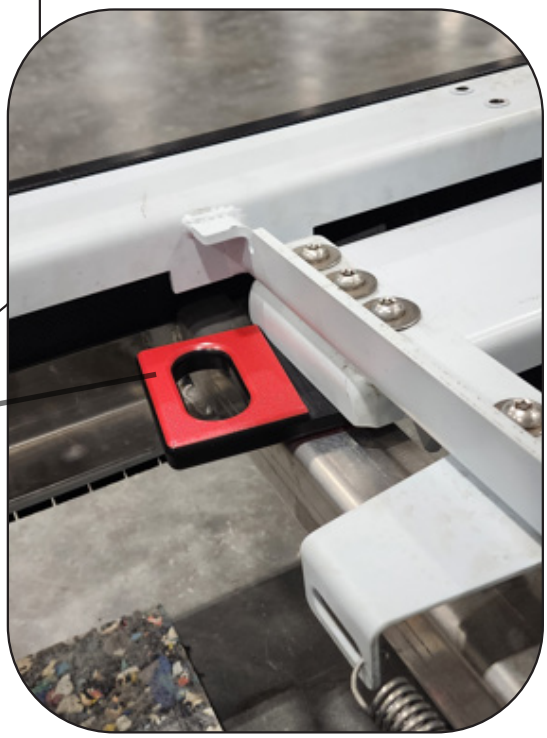
*	Part #	Description	Qty.
A	127551	⅝ x 1½ BHCS w/anti-Seize	6
B	175652	Washer Lock Spring ⅝i SST	6
C	100366	Washer Flat ⅝i	6
D	358809	Track Base Pnt	1





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	½” We-Go Temp Spacer (Temporary)	4

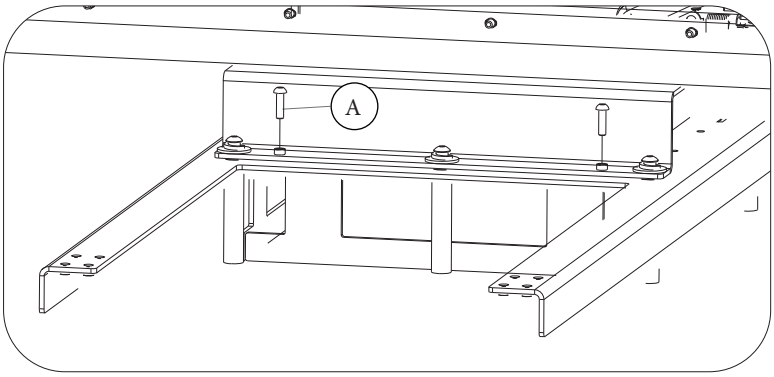


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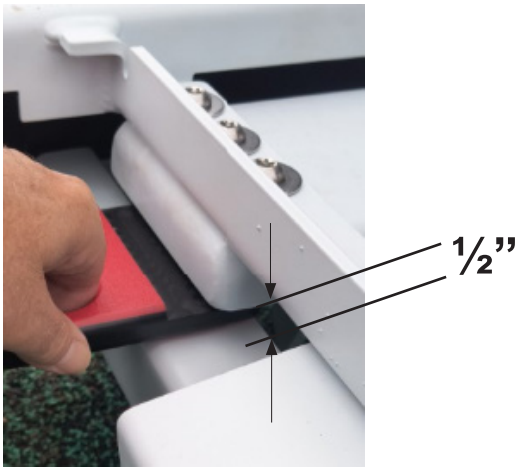
STEP 3:
- SCREW IN LEVELING BOLTS TO RAISE THE TRACK BASE.

- 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	⅜ x 1⅜ 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.

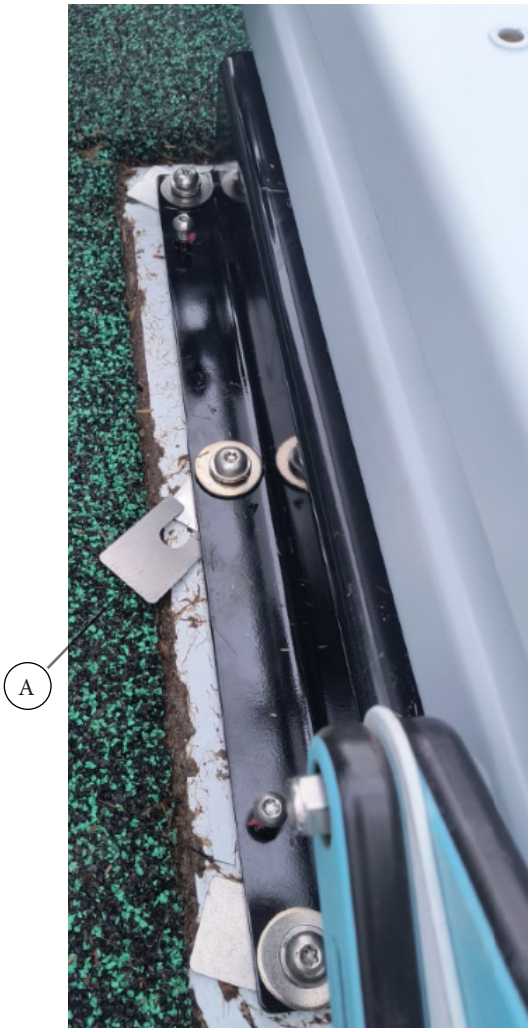
- THE WE-GO TEMP SPACERS SHOULD BE A LOOSE FIT AND NOT OVERLY SNUG. *DO NOT OVERTIGHTEN THE LEVELING BOLTS.*

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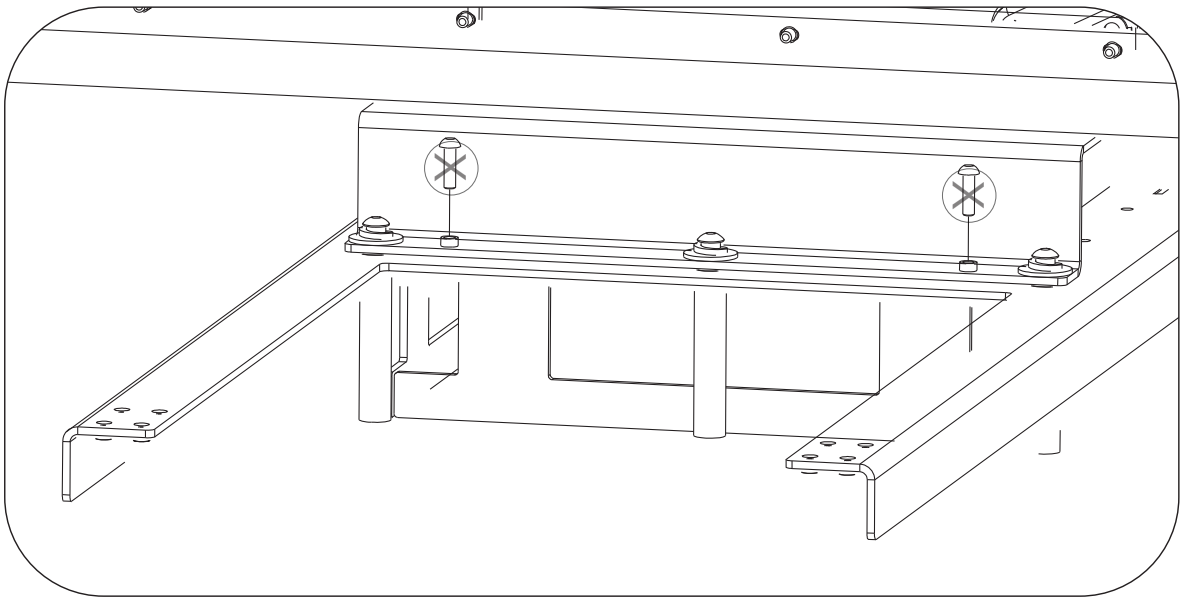
STEP 5:
- ADD A SERIES OF WE-GO SHIM SPACERS UNDER EACH BOLT LOCATION.

- NOTE, THE STACK HEIGHT MAY VARY.

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



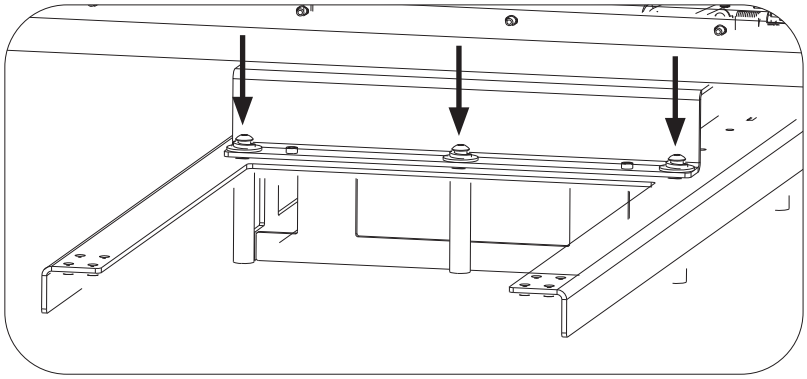
STEP 6:
- REMOVE THE 4 LEVELING BOLTS



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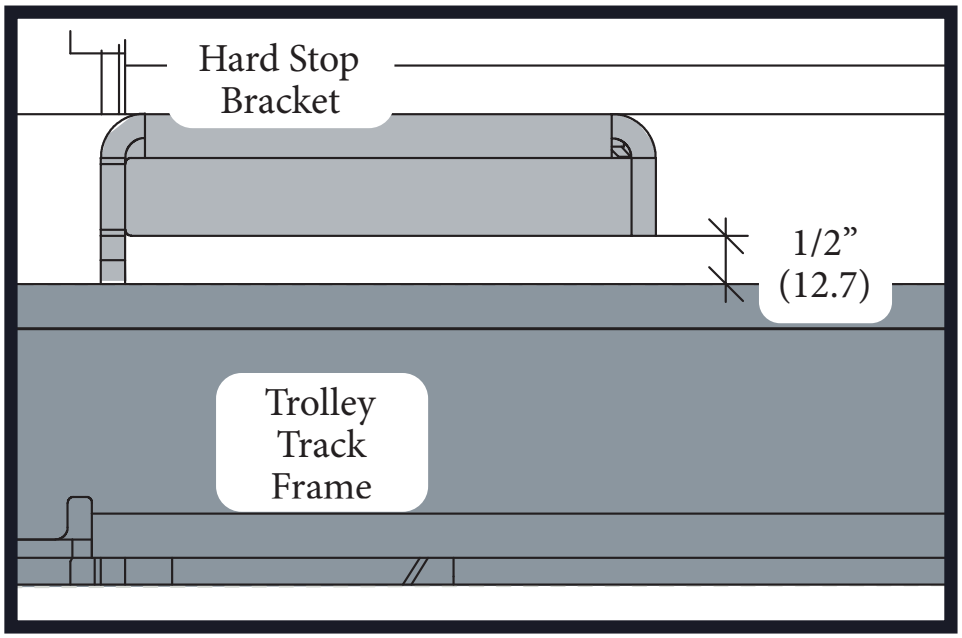
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STEP 7:
- TIGHTEN (6) 5/8” BHCS TO 50 FT-LBS

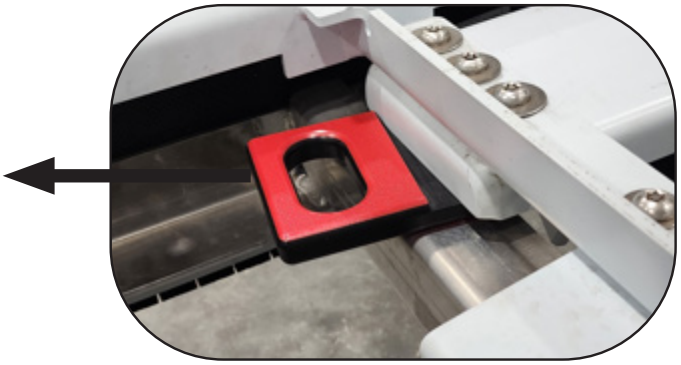


Hard Stop Measurement Location
Side View

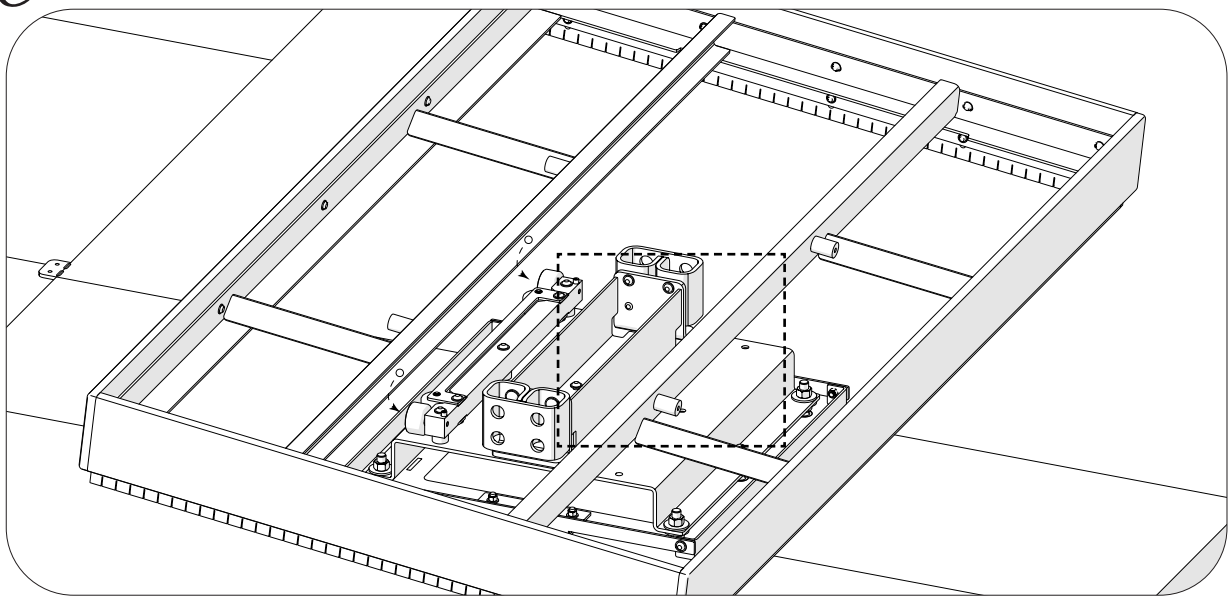
- <u>CRITICAL</u>: VERIFY GAP IS STILL 1/2”

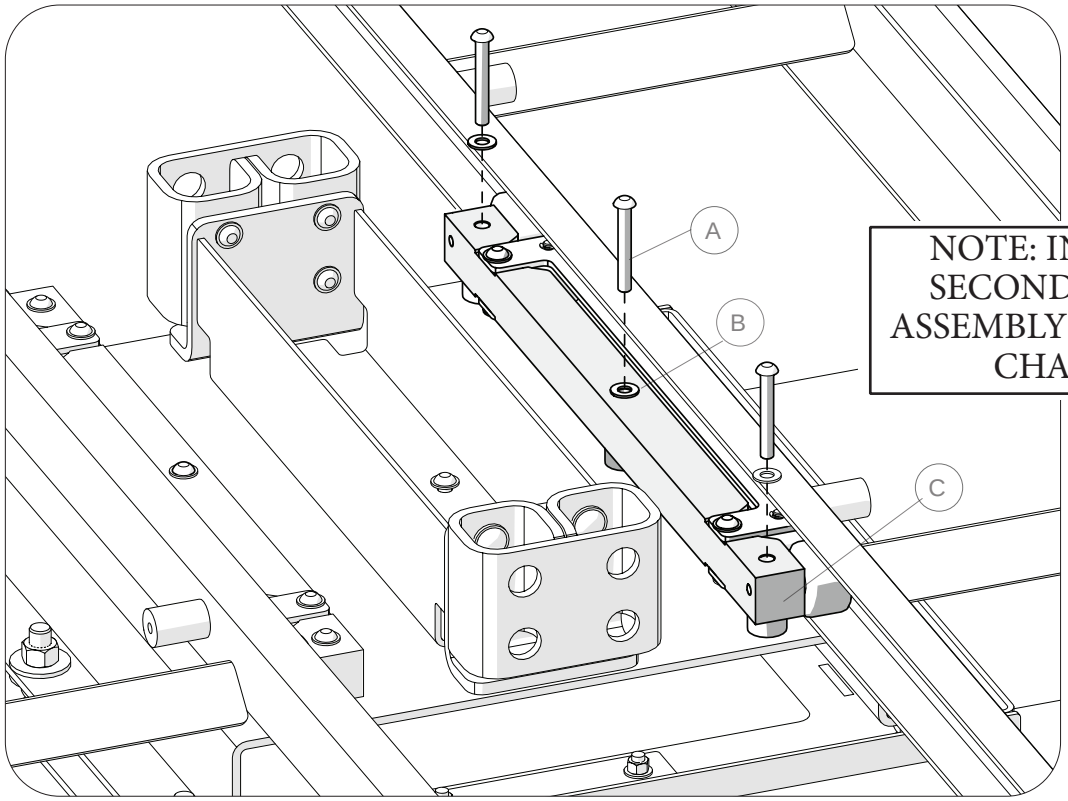


- REMOVE THE 4 WE-GO TEMP SPACERS



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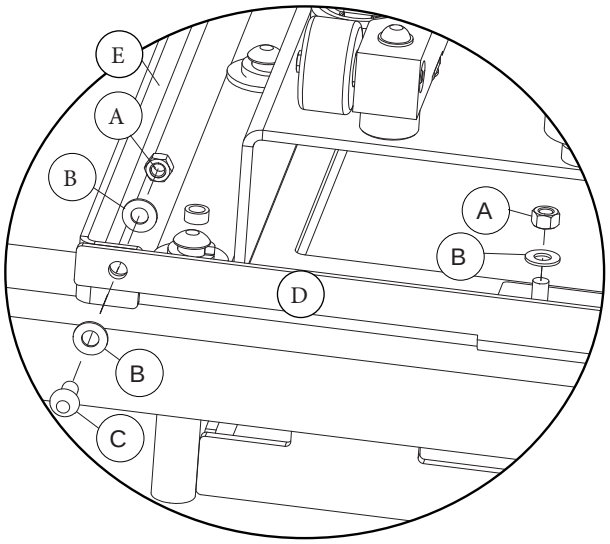
NOTE: INSERT THE SECOND TROLLEY ASSEMBLY INTO THE C CHANNEL

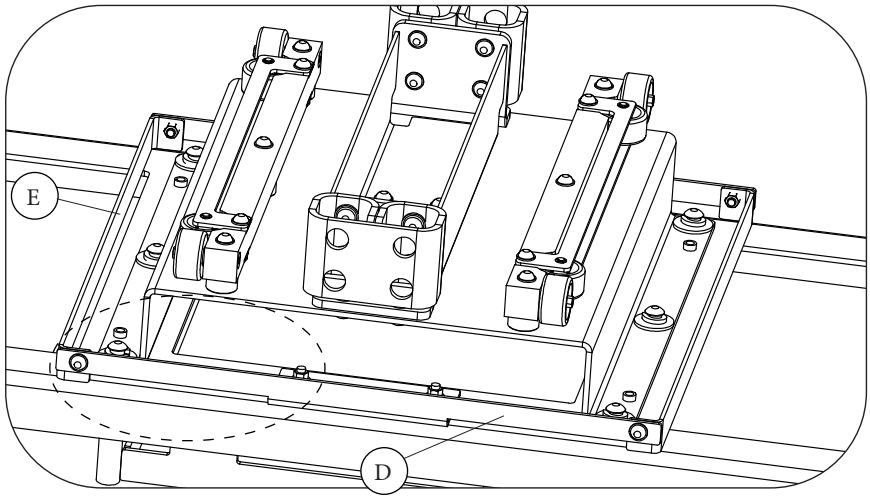
*	Part #	Description	Qty.
A	100175	3/8x2-3/4i	3
B	100365	3/8" SAE Washer	3

*	Part #	Description	Qty.
C	275657	Trolley Assembly	1

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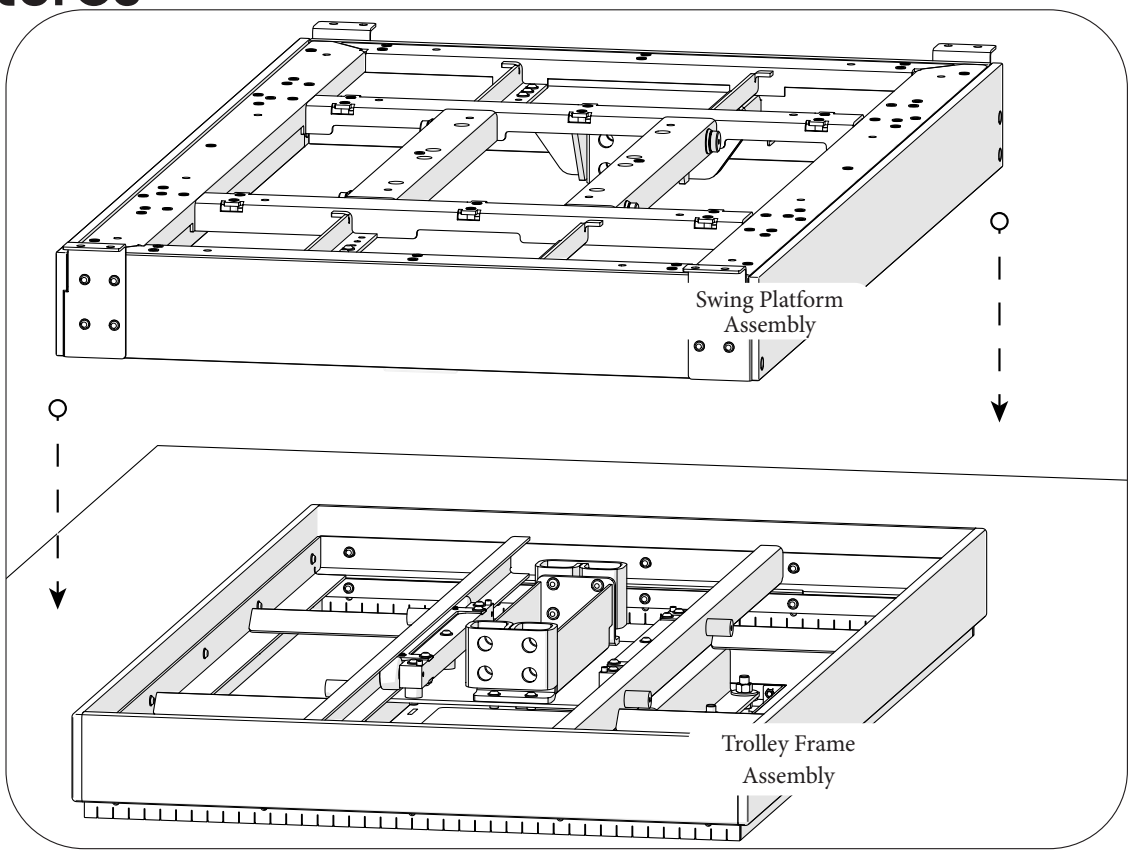




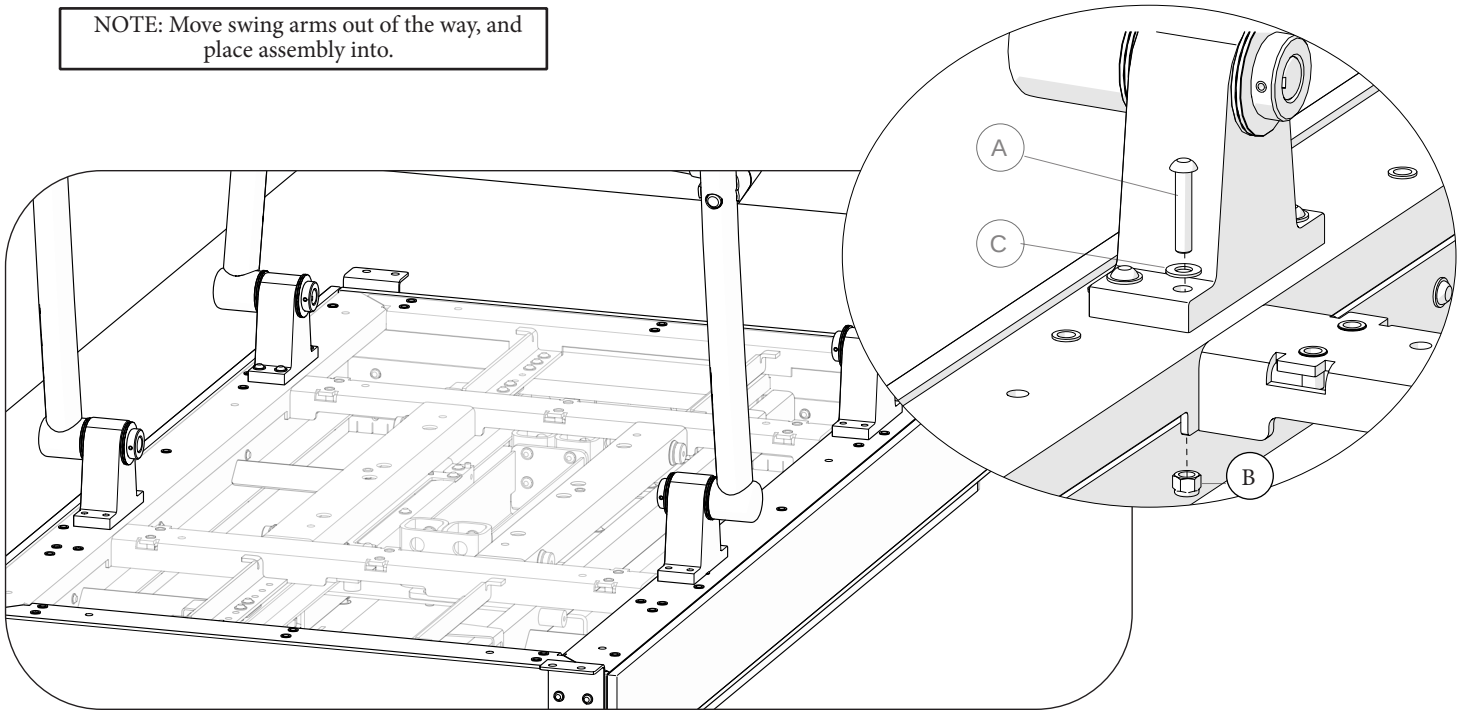
*	Part #	Description	Qty.
A	100327	3/8" Standard Hex Nut	8
B	100365	3/8" SAE Washer	12
C	100196	⅜ x ⅞" BHCS	4

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

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

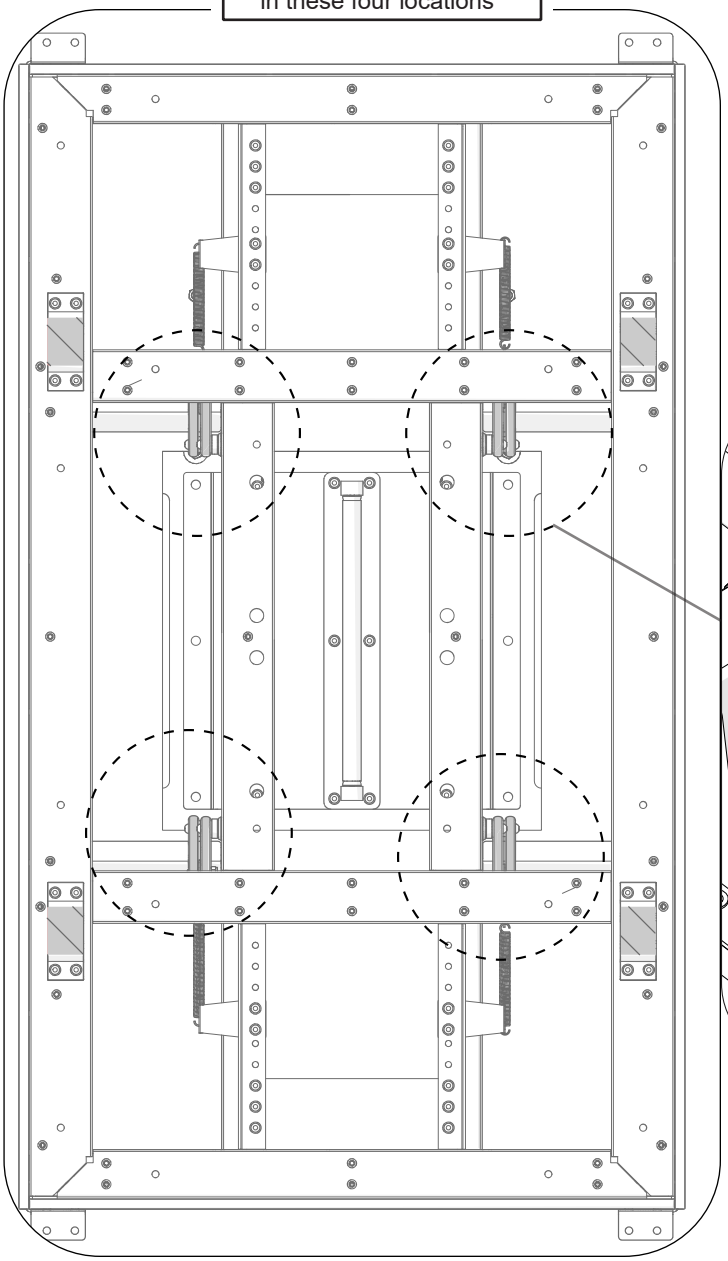


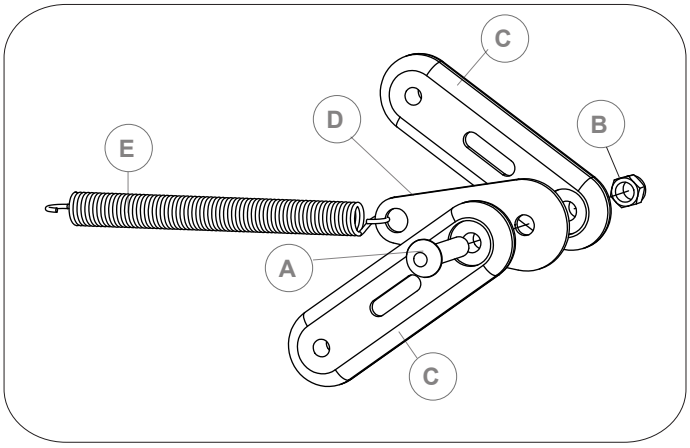
*	Part #	Description	Qty.
A	100175	3/8x2i SST Pat	16
B	136931	Nut Hex Nylok 3/8-16	16

*	Part #	Description	Qty.
C	100365	$^{3}/_{8}$" SAE Washer	16

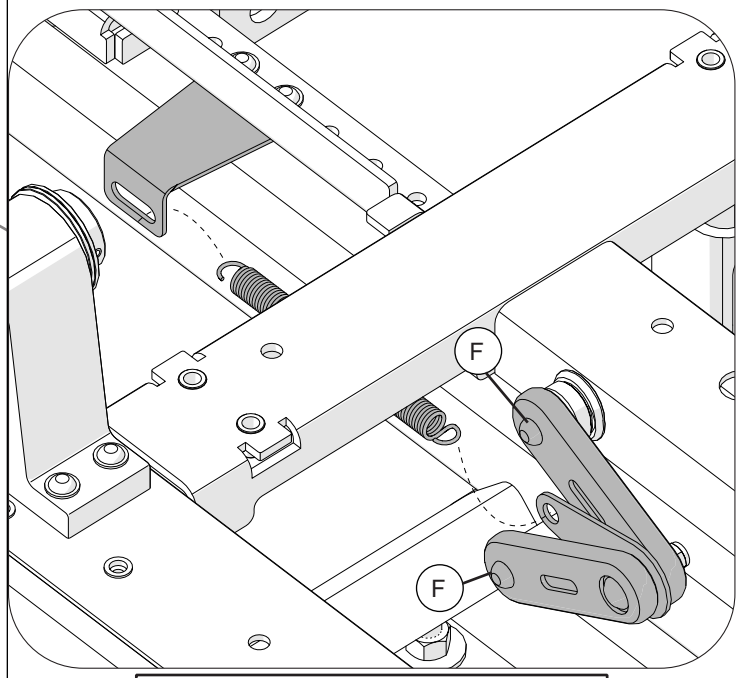
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NOTE: Spring Assembly is in these four locations





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

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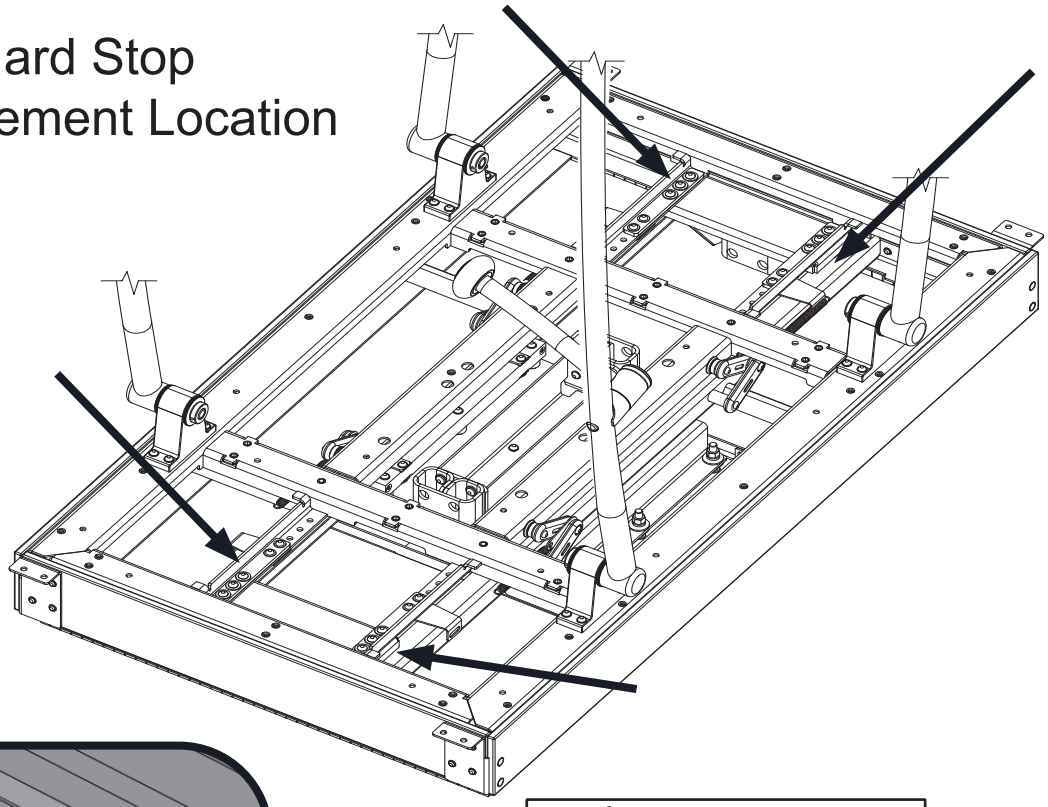
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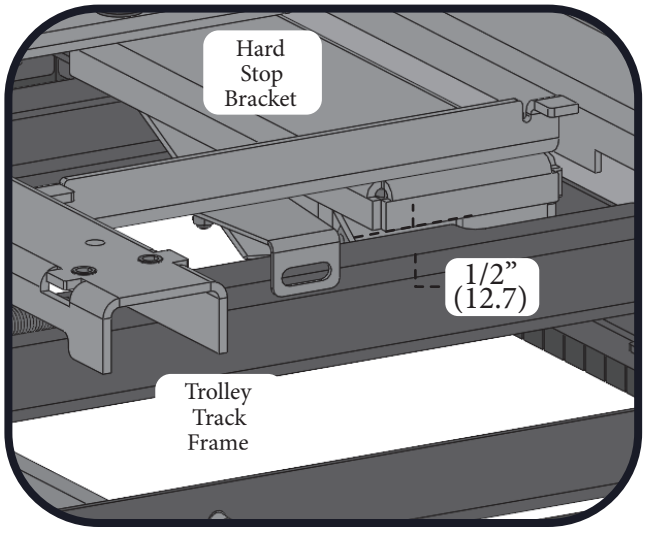
Critical Checklist Before Installing GripX

- ❑ 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 ½" (SEE BELOW)

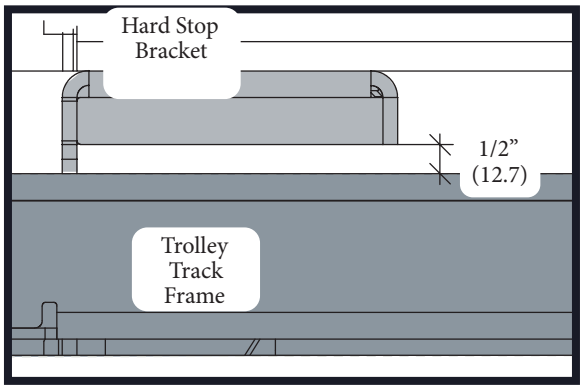
Hard Stop Measurement Location

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).



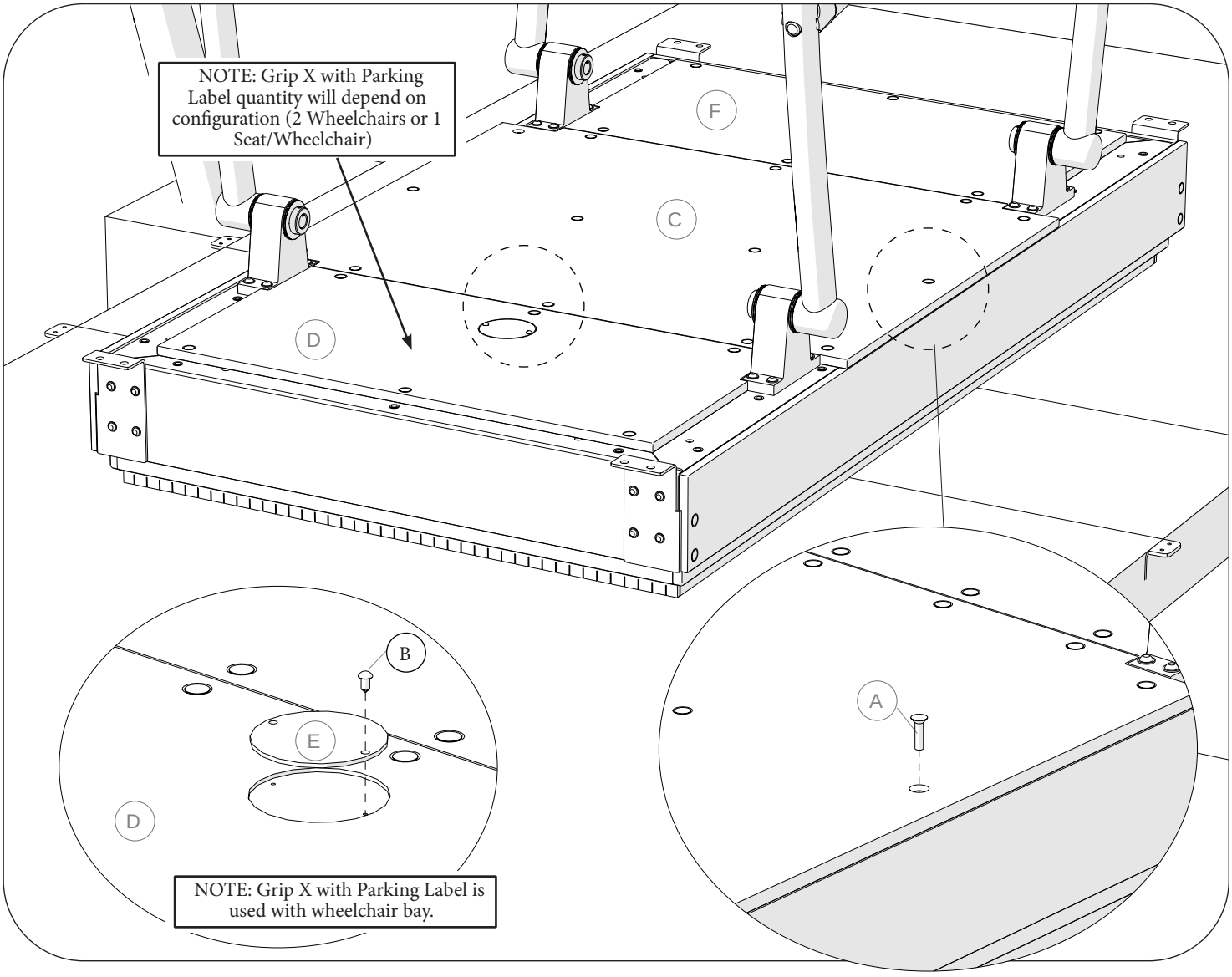


Hard Stop Measurement Location Side View



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GripX Installation

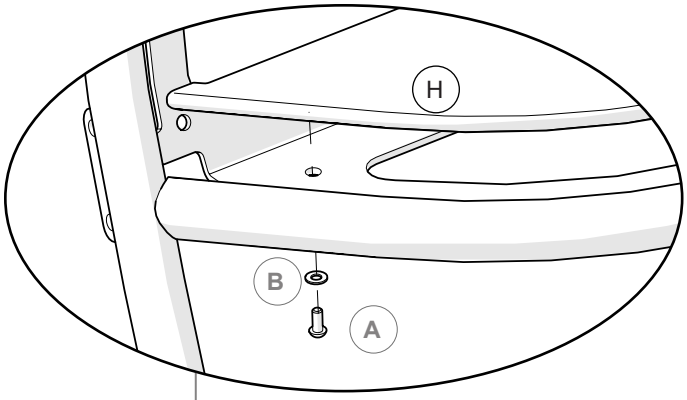


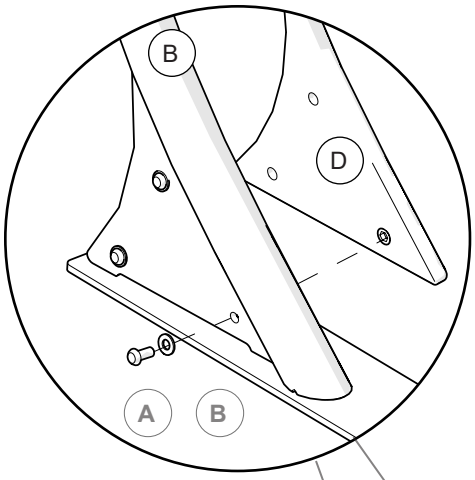
*	Part #	Description	Qty.
A	151421	FHCS 6lp 3/8x1-1/2" SST W/Patch	24
B	129671	BHCS Torx #14 X 1/2 SST	*
C	271429	Swing Center Deck Grip X	1

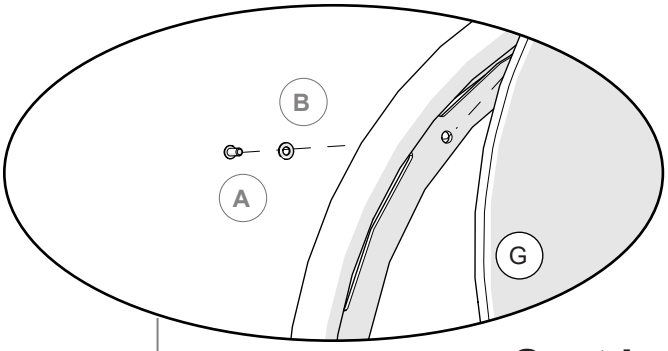
*	Part #	Description	Qty.
D	279012	Swing WC End Deck Grip X	*
E	257592	Parking Label Digi	*
F	271433	Swing End Deck Grip X	*

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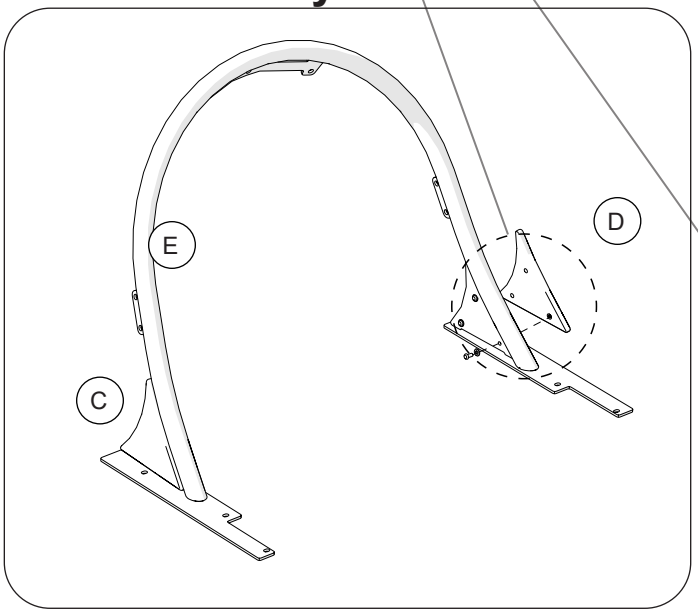
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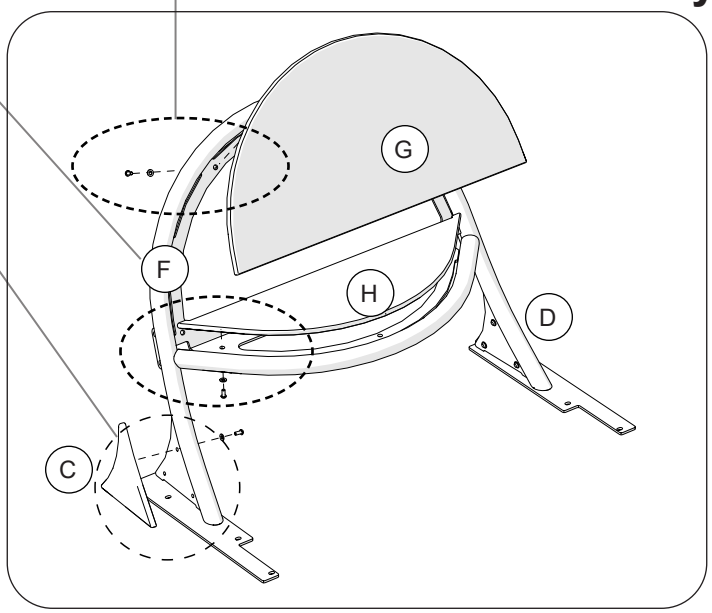




Wheelchair bay



Seat bay

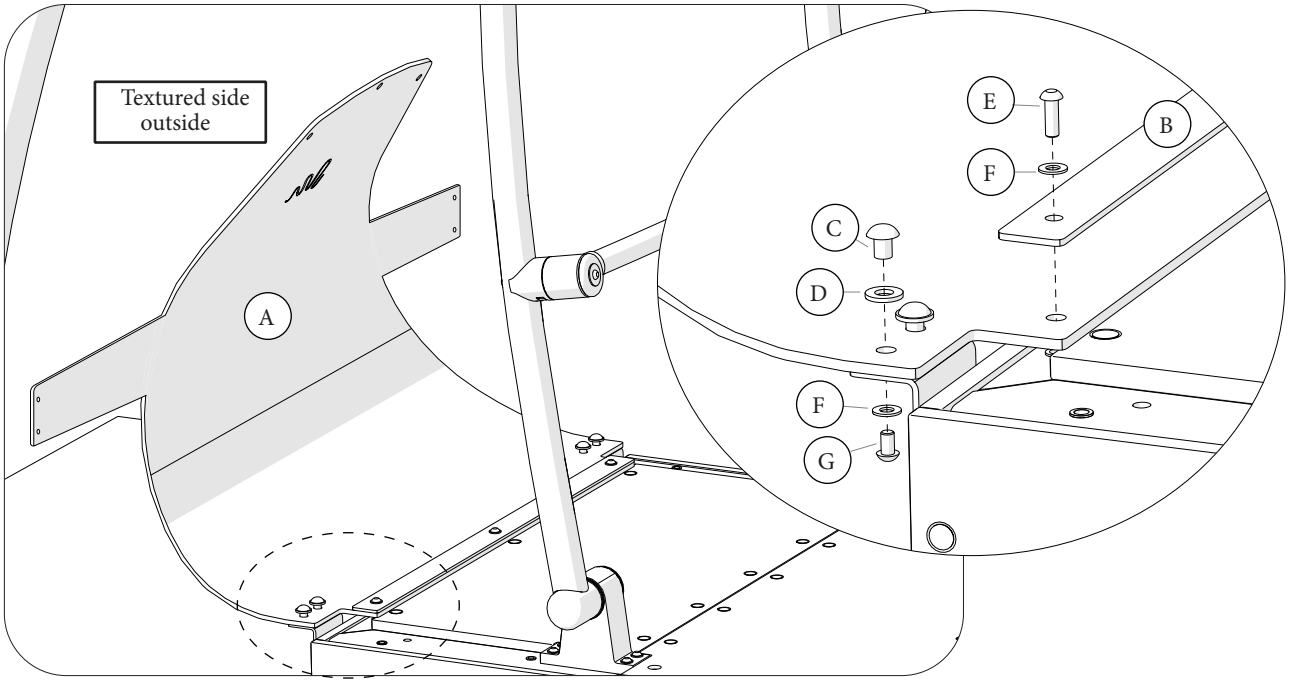


Wheelchair bay			
*	Part #	Description	Qty.
A	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS	6
B	223956	$^{5}/_{16}$" SAE Flat Washer	6
C	274202	Seat Gusset Perm Rh	1
D	274201	Seat Gusset Perm Lh	1
E	272856	Wc Swing Wc Seat	1

Seat bay			
*	Part #	Description	Qty.
A	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS	16
B	223956	$^{5}/_{16}$" 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

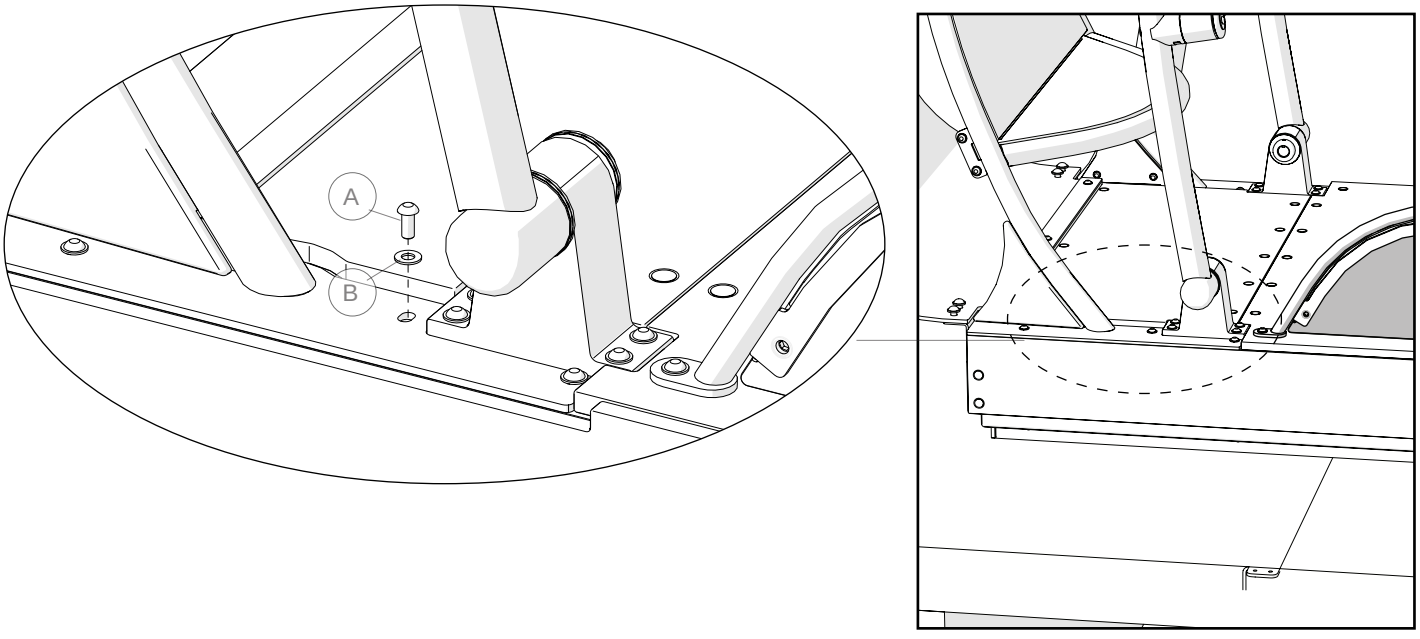
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*	Part #	Description	Qty.
A	274938	Swing Belt	2
B	274937	Belt Top Plate	2
C	100353	Flg Nut 6lp 3/8-16 SST	8
D	113550	Washer Flat SAE 1/2i SST	8

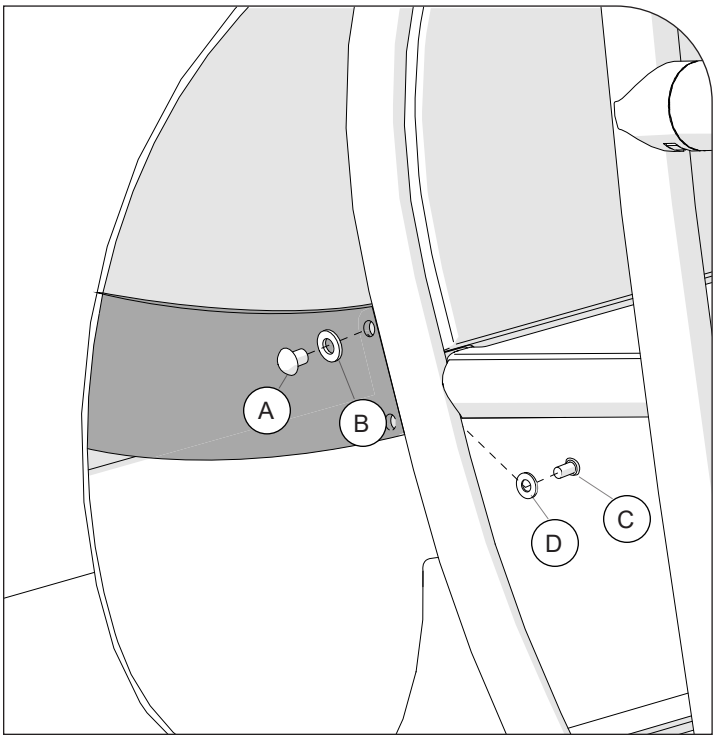
*	Part #	Description	Qty.
E	100198	$^{3}/_{8}$ x 1 $^{1}/_{8}$" BHCS	6
F	100365	$^{3}/_{8}$" SAE Washer	14
G	100195	$^{3}/_{8}$ x $^{5}/_{8}$" BHCS	8

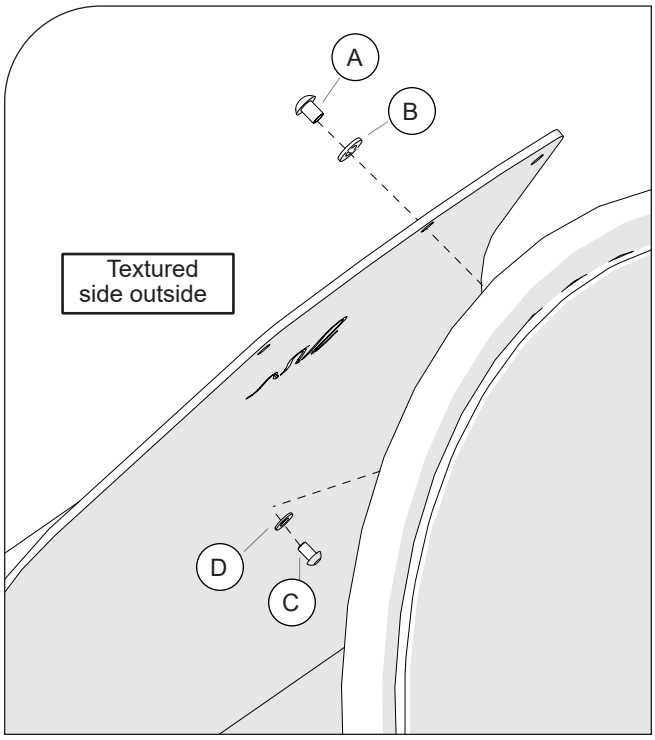


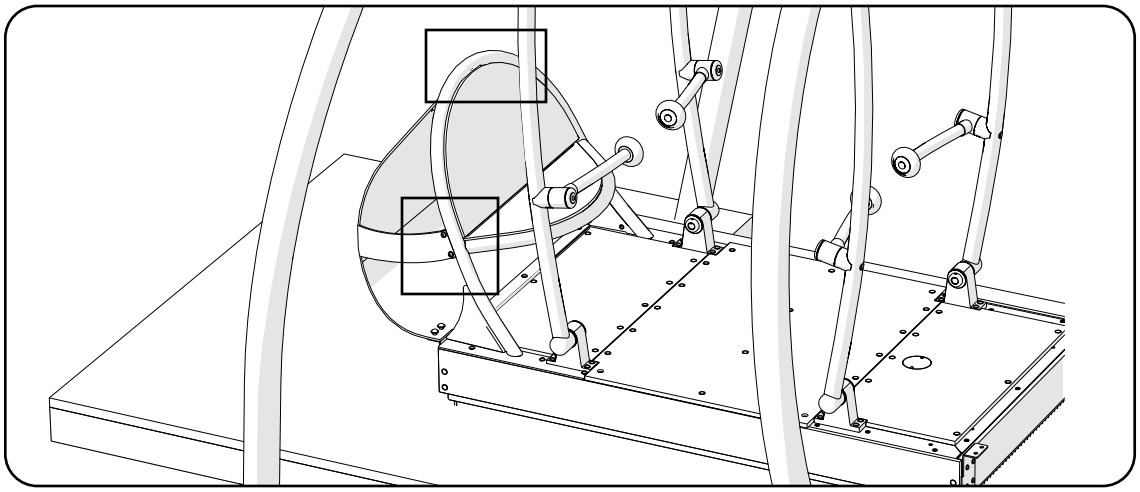
*	Part #	Description	Qty.
A	100196	$^{3}/_{8}$ x $^{7}/_{8}$" BHCS	12

*	Part #	Description	Qty.
B	100365	$^{3}/_{8}$ SAE Washer	12

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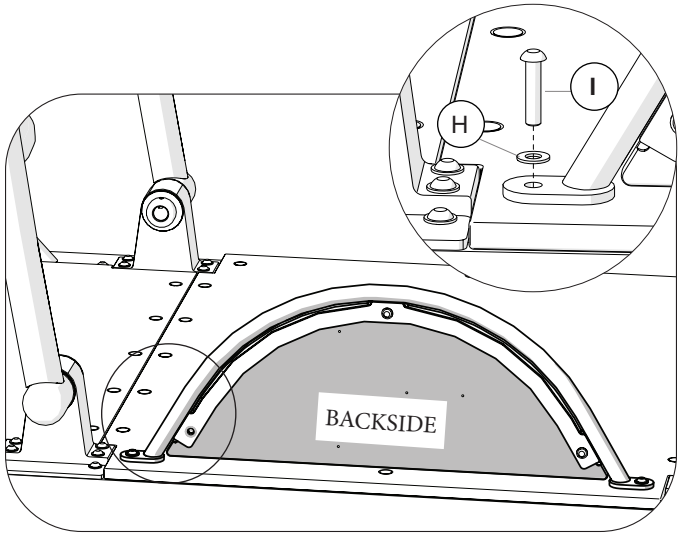


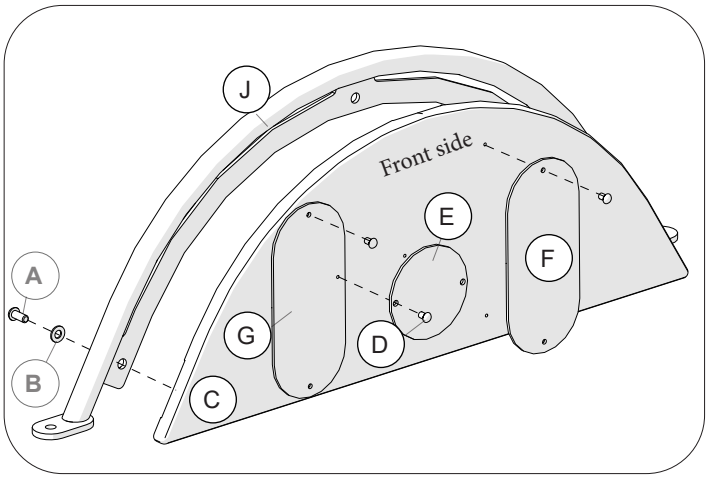


*	Part #	Description	Qty.
A	100353	Flg Nut 6lp 3/8-16 SST	14
B	113550	Washer Flat SAE 1/2i SST	14

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

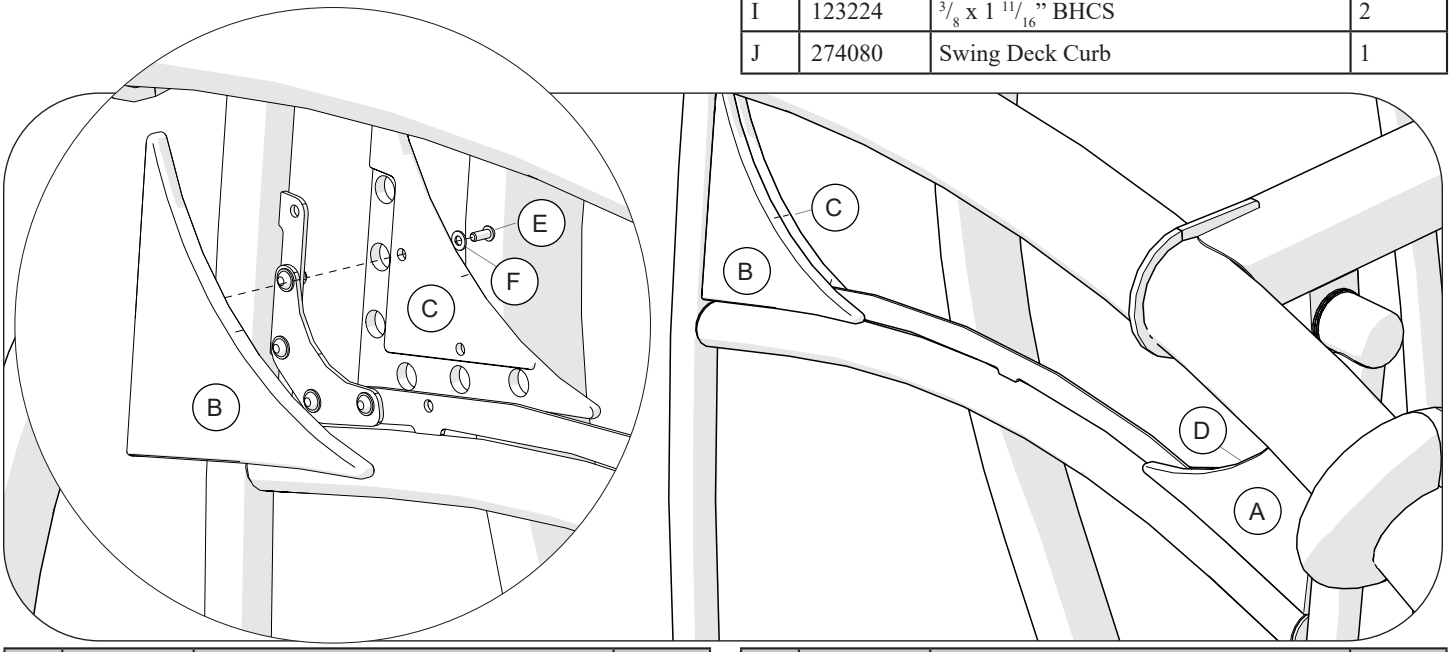
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*	Part #	Description	Qty.
A	223807	$^{5}/_{16}$ x $^{3}/_{4}$" BHCS	3
B	223956	$^{5}/_{16}$" SAE Flat Washer	3
C	318457	Swing Deck Curb Panel	1
D	129671	BHCS Torx #14 X 1/2 SST	6

*	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	$^{3}/_{8}$" SAE Washer	2
I	123224	$^{3}/_{8}$ x 1 $^{11}/_{16}$" BHCS	2
J	274080	Swing Deck Curb	1

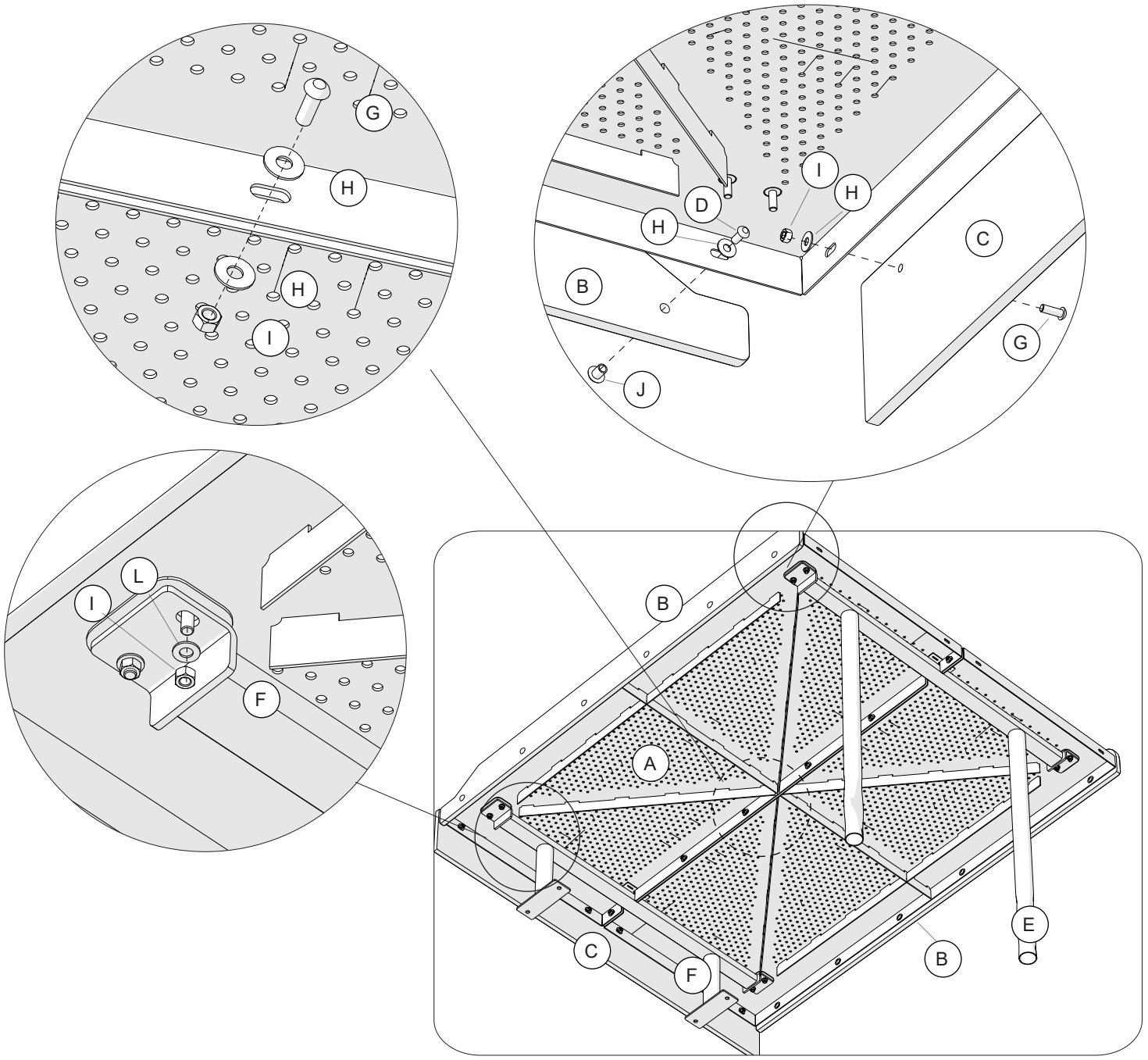


*	Part #	Description	Qty.
A	274114	Swing Arm Brace Perm Rh	2
B	274079	Swing Arm Brace Perm Lh	2
C	278683	Swing Arm Brace Perm 2	2

*	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

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ACCESS DECK

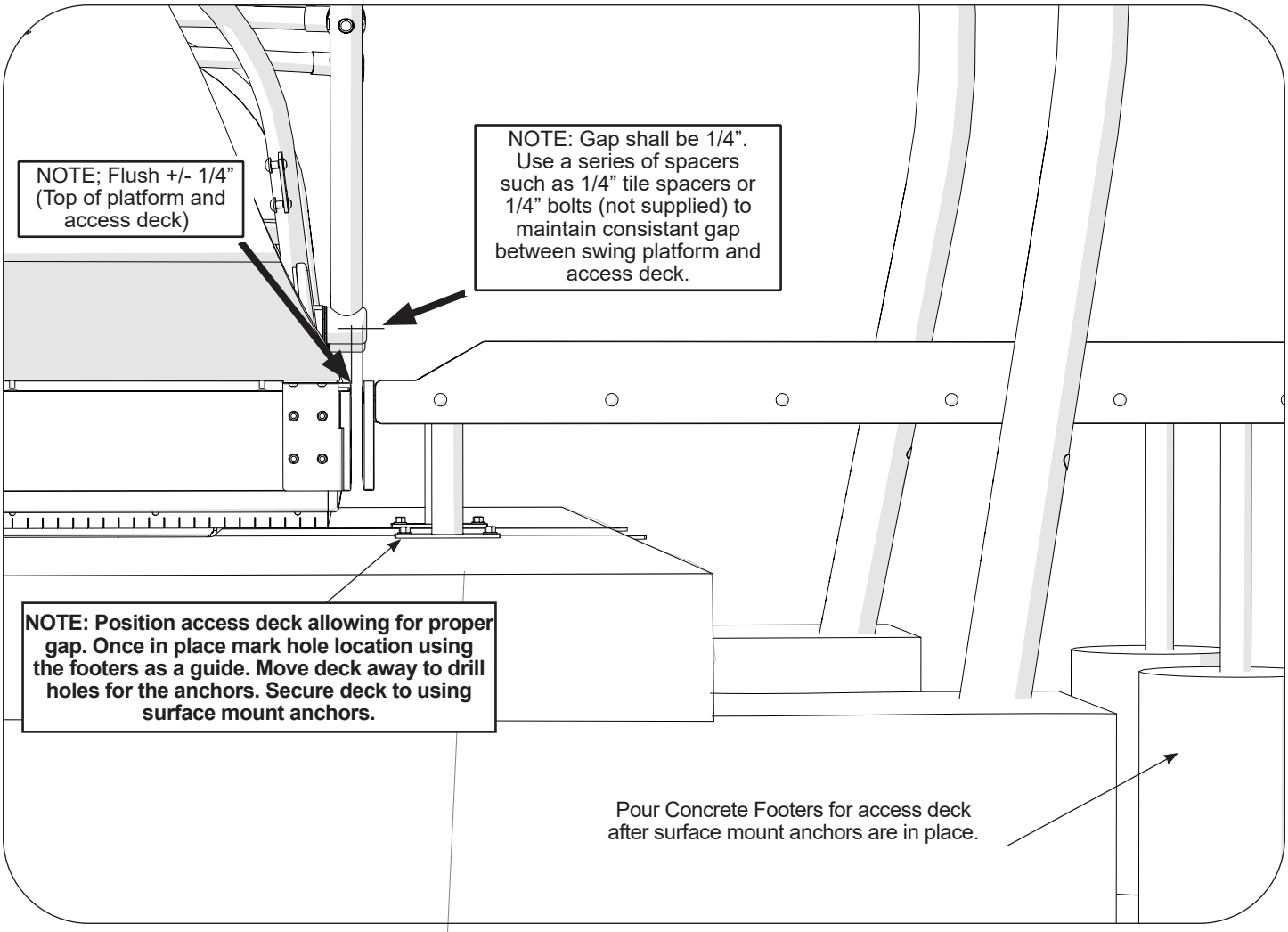


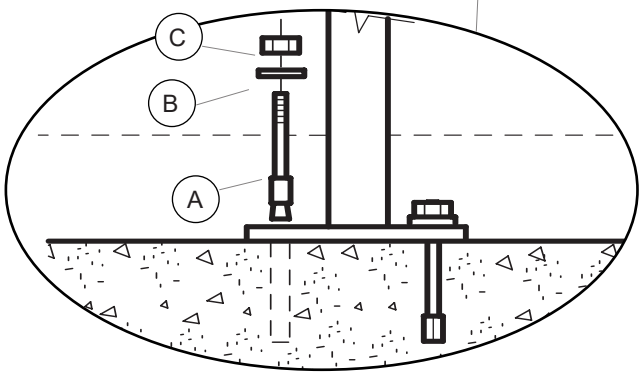
*	Part #	Description	Qty.
A	271815	Swing Access Deck 60i X 72i PVC	2
B	271888	Deck Curb 60i	2
C	272958	60i Deck Wear Plate	1
D	100196	3/8 X 7/8" BHCS	12
E	271818	Swing Access Deck Footer DB	1
F	271819	Swing Access Deck Footer SM	1

*	Part #	Description	Qty.
G	100198	3/8 X 1 1/8" BHCS	10
H	100362	Washer Flat 3/8i SST	28
I	100327	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	3/8" SAE Washer	8

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*	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

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Freestanding PlayWe-Go-Swing® 277778

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	Wc Swing Wc 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 Wc End Deck Gripx, Black	2
279162	Swing Arm Brace Perm Rh 2, Specify Color	2
279176	5i Flange Cover Casting Pnt, Specify Colorv	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	Wc Swing Seat, Specify Color	1
272856	Wc Swing Wc 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	Wc Swing Seat Back Perm, Specify Color	1
274135	Wc 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 Wc 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**

ECO-0111694. Document 36462100 replacing 33957500. WGS redesign of soft stop, deck support frame and anchor cage.

Freestanding PlayWe-Go-Swing® 277778

Specifications

Trim: Permalene®, 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).

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.

Permalene Panels: Recycled Permalene, color specified.

Belts: Made from .315" think mini rough top 3-ply rubber belting with polyester fabric plys, black in color

Grip X Deck Surface: 3/4" (19,05 mm) Thick Permalene®, black in color.

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.

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.

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) stainsteel plate. Finish: Proshield, color specified.

Trolley Base: Comprised of 1/4" (6,35 mm) HRPO steel plate, Finish: ProShield, color specified.

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.

Trolley Spacer: 1-1/8" (28,58 mm) O.D. Aluminum tubing. Finish: Proshield: color specified

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.

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.

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.

Soft Stop: Weldment comprised of 3/8" (9,53 mm) HRPO steel plate, .179" (4,55 mm) HRPO steel sheet. Finish: ProShield, 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.

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.

Belt Plates: Comprised of 1/8" (3,18 mm) aluminum sheet. Finish: ProShield, color specified.

Mending Plates: Comprised of 7 ga. (4,55 mm) HRPO steel sheet. Finish: ProShield, color specified.

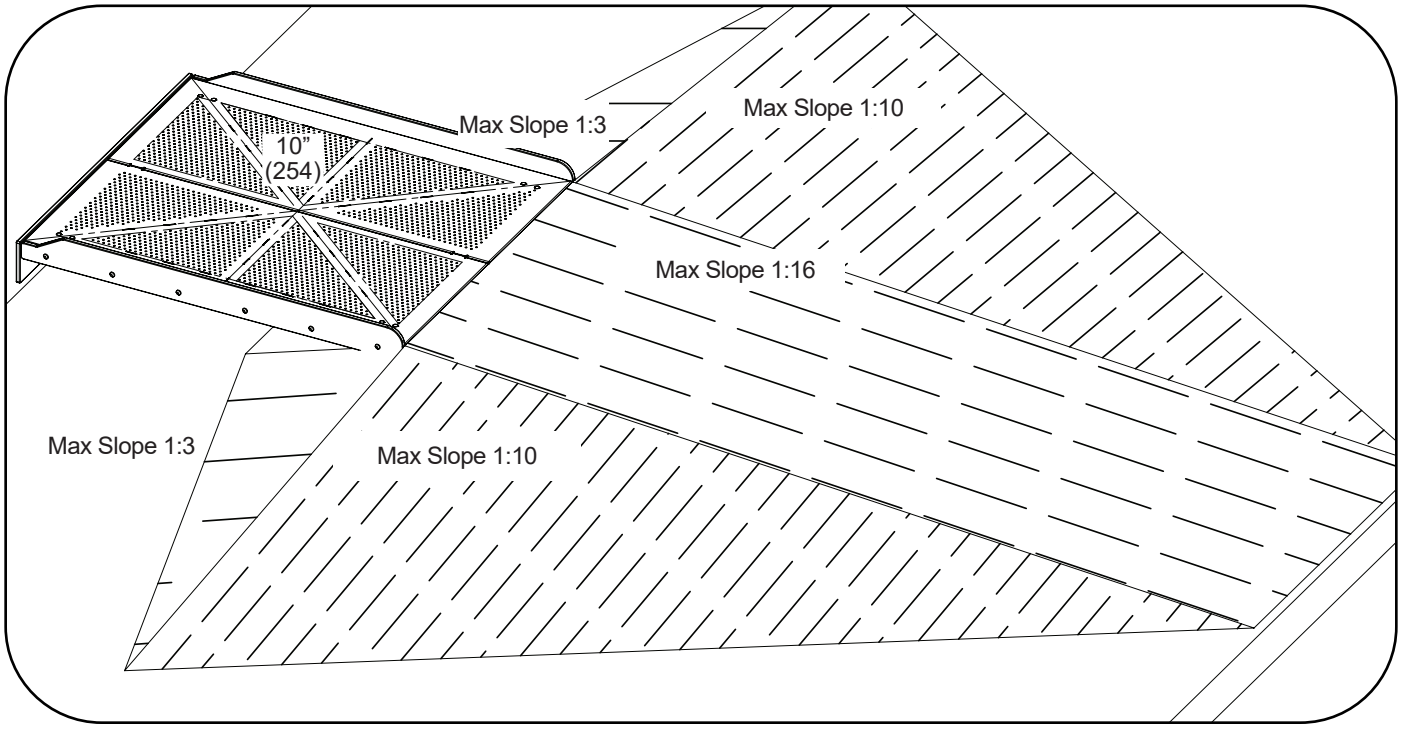
Rung Cap: EPDM, black in color.

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.

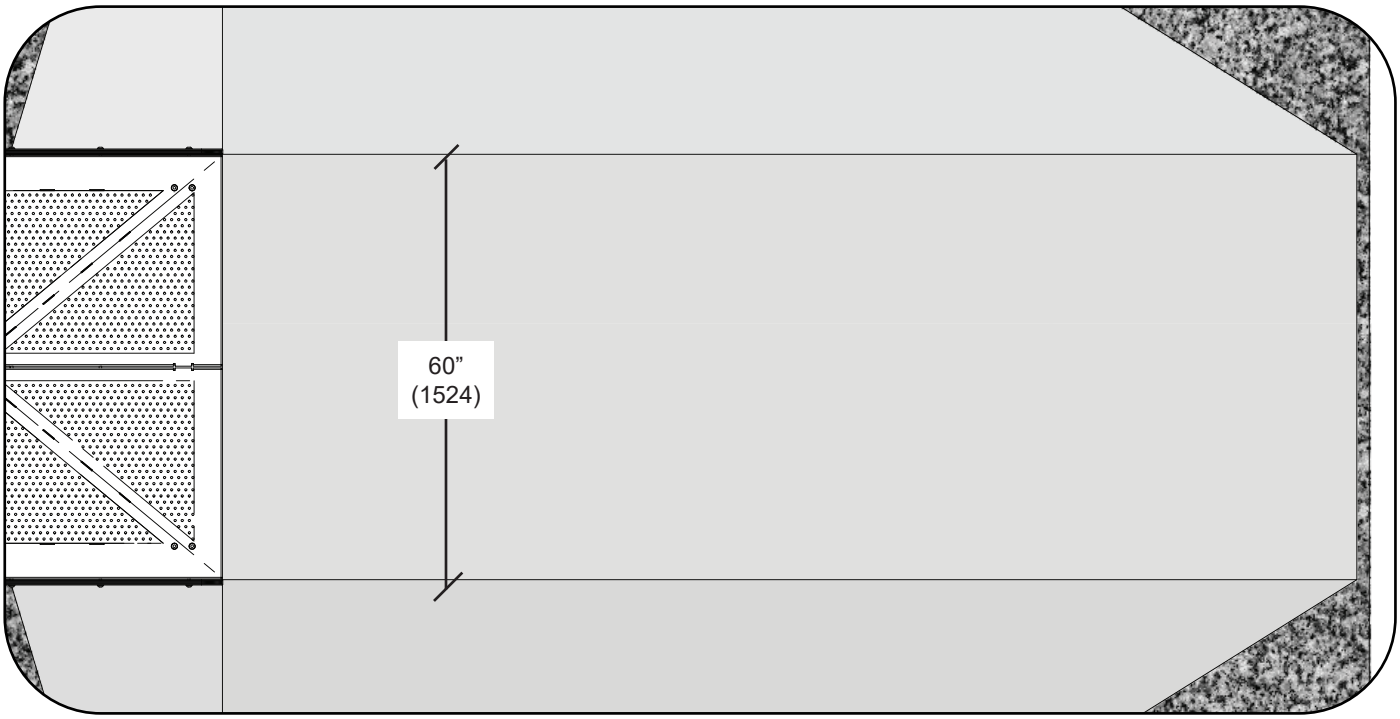
Installation Time: Approx. 60 install hours
Concrete Req.: Approx. 9.5 cu. yards
Weight: **Two Wheelchair Seats** -2312 lbs.
One Wheelchair Seat - 2357 lbs.

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POUR IN PLACE RAMP



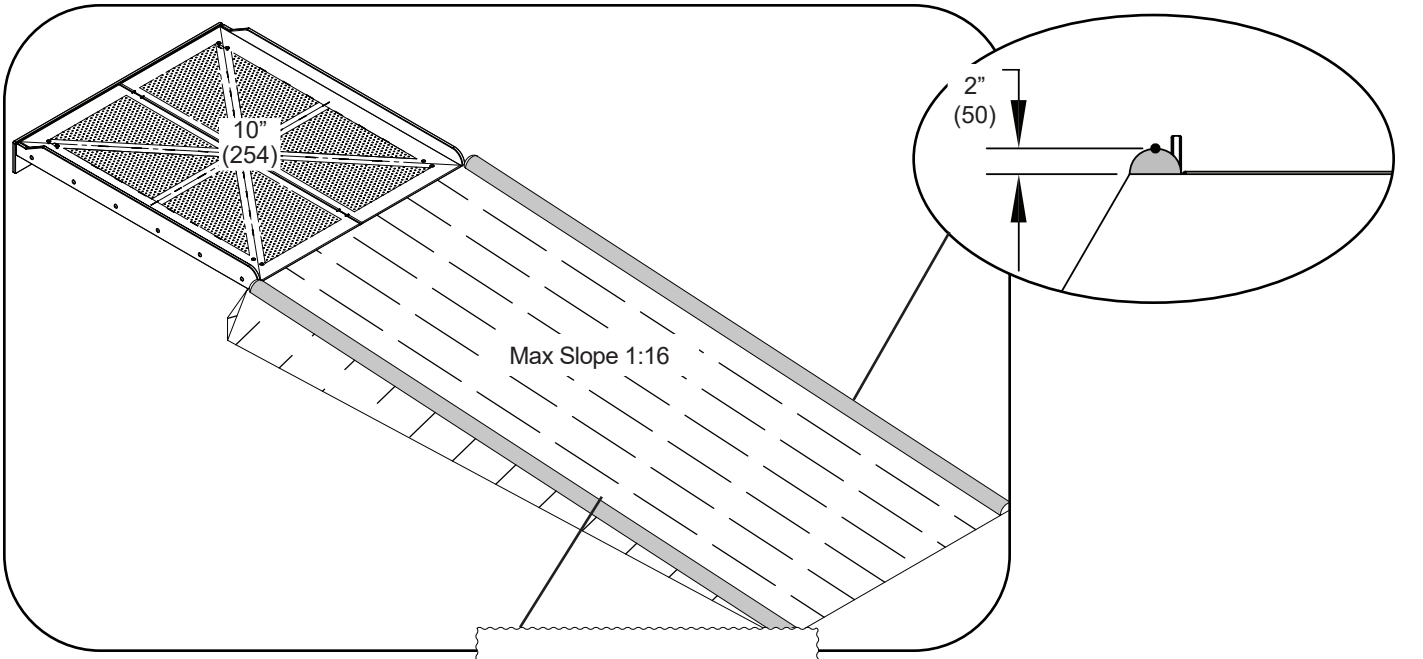
NOTE: Accessible route needs to be 1:16 and 60” wide



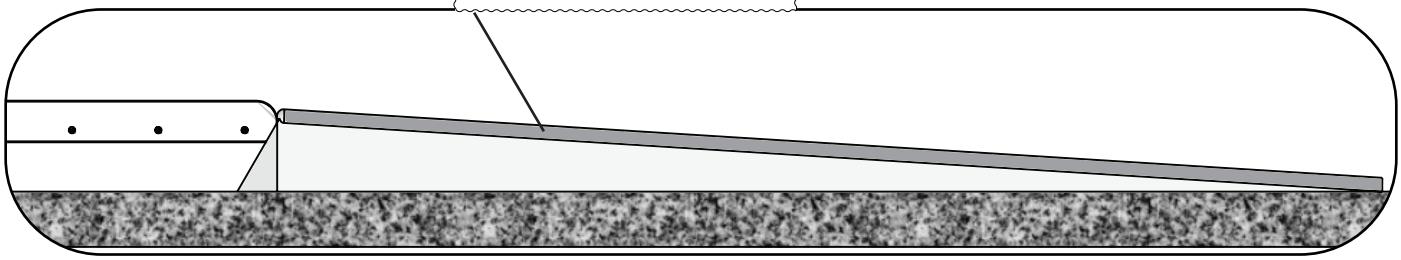
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

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POUR IN PLACE RAMP WITH CURBS



NOTE: Curb 2” or greater from sloped surface. Curb shall be a contrasting color to the ramp

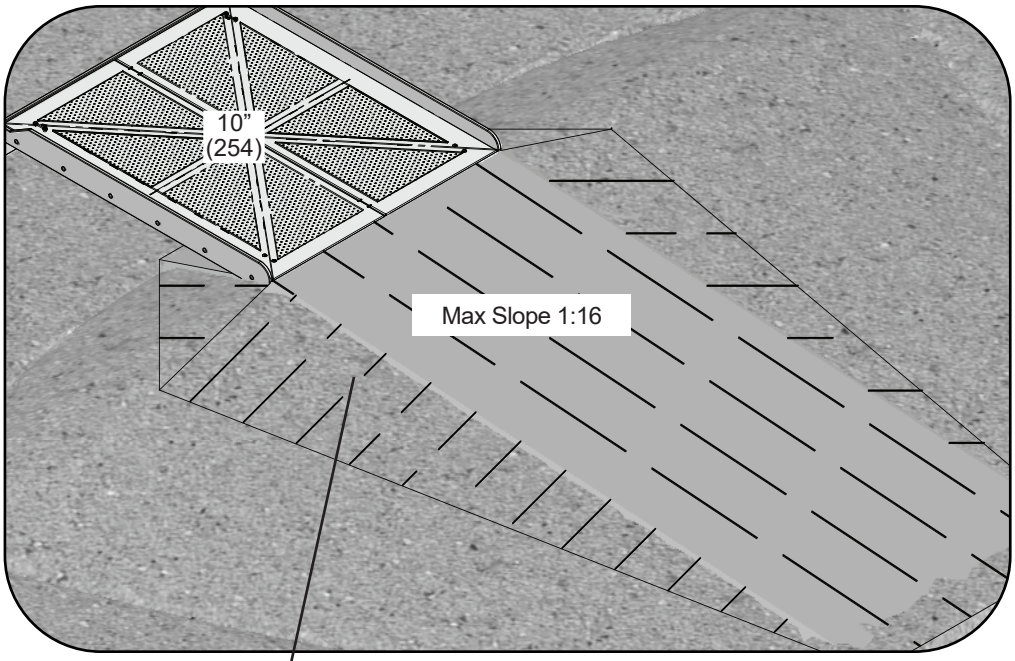




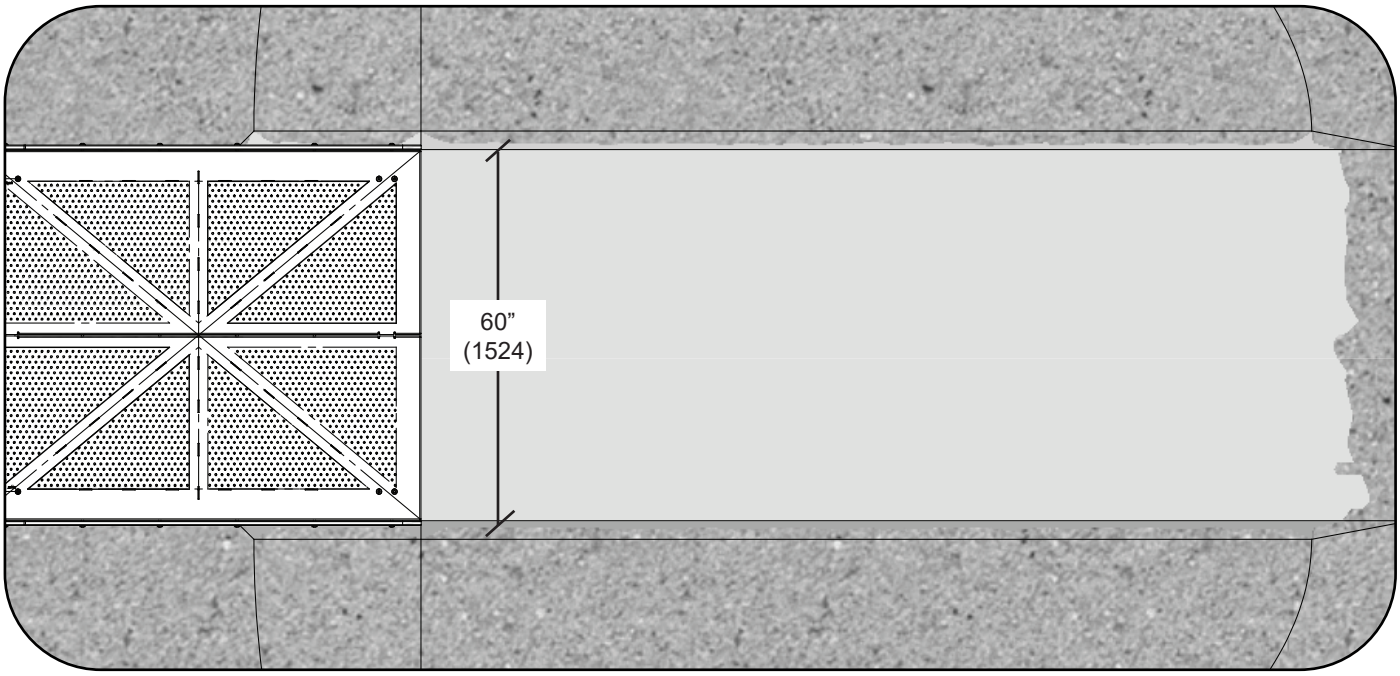
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POUR IN PLACE RAMP WITH CURBS WITH LOOSE BACK FILL

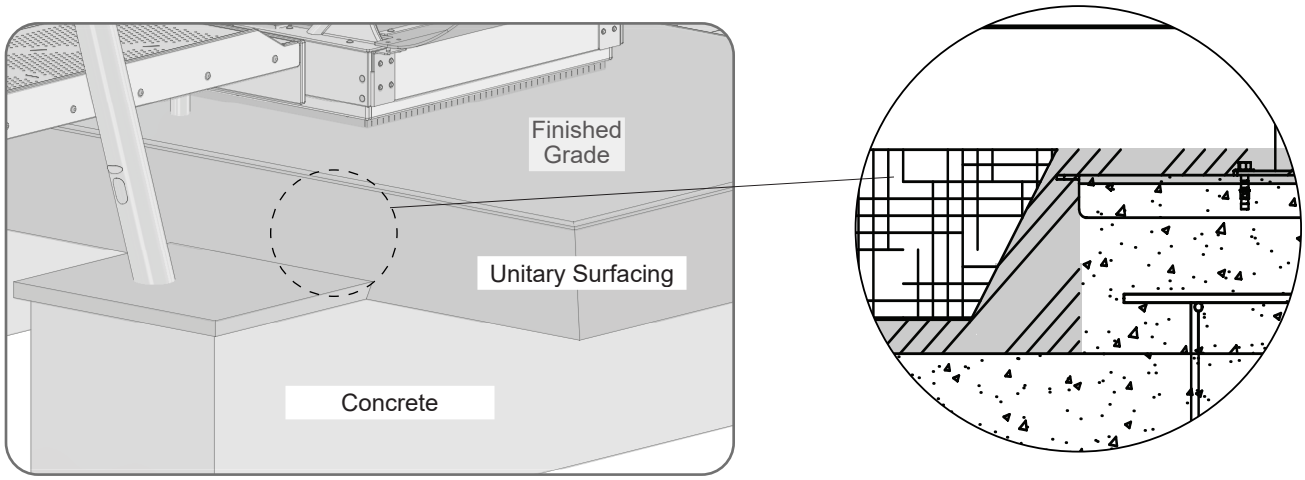






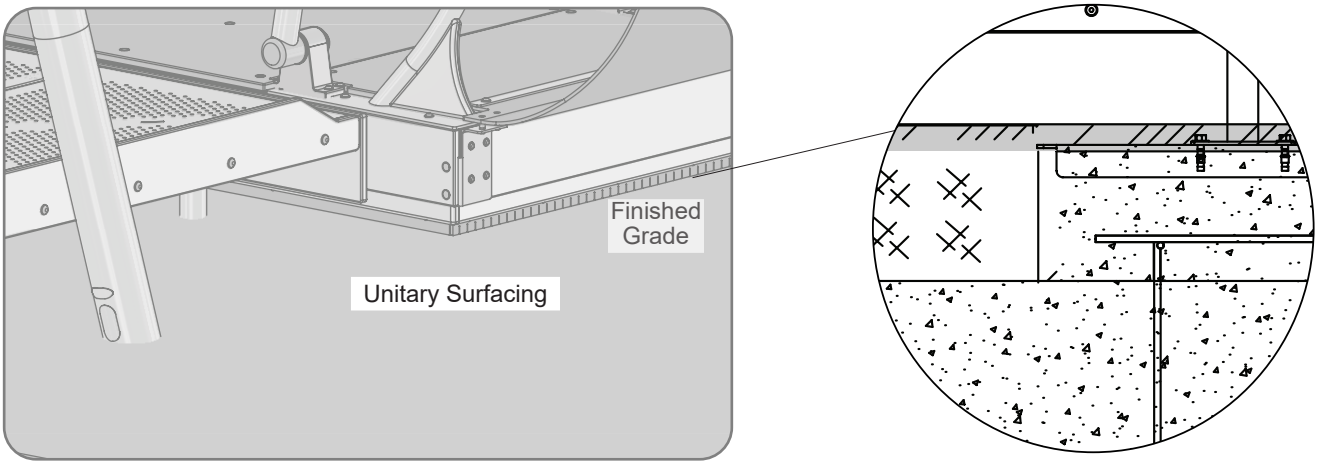
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POUR IN PLACE WITH LOOSE FILL



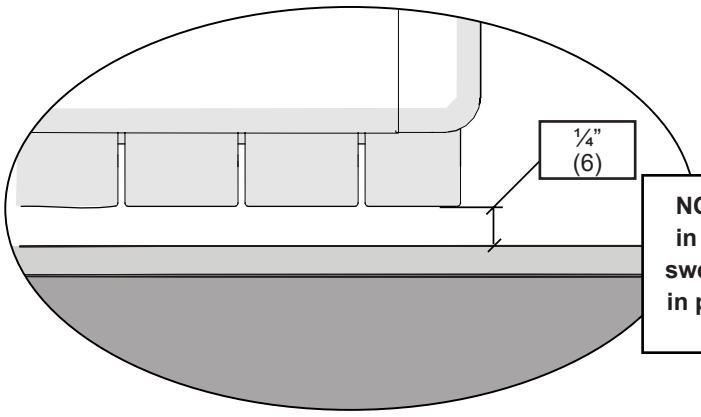
1 ½”-2” Unitary surfacing with a turn-down, covering concrete. Back fill with loose fill surfacing.

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

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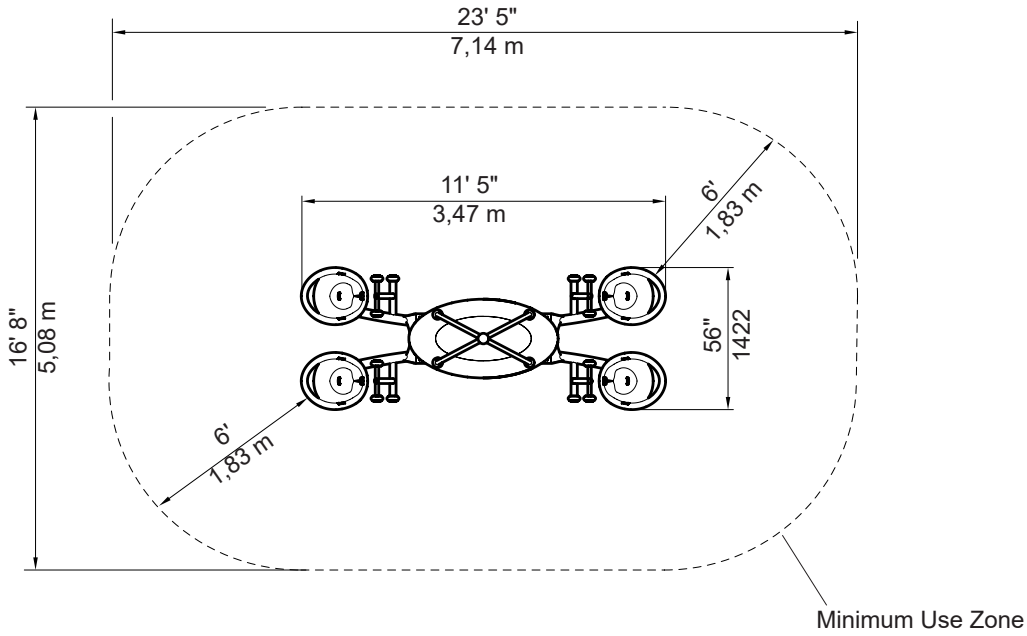
ISO 14001 CERTIFIED

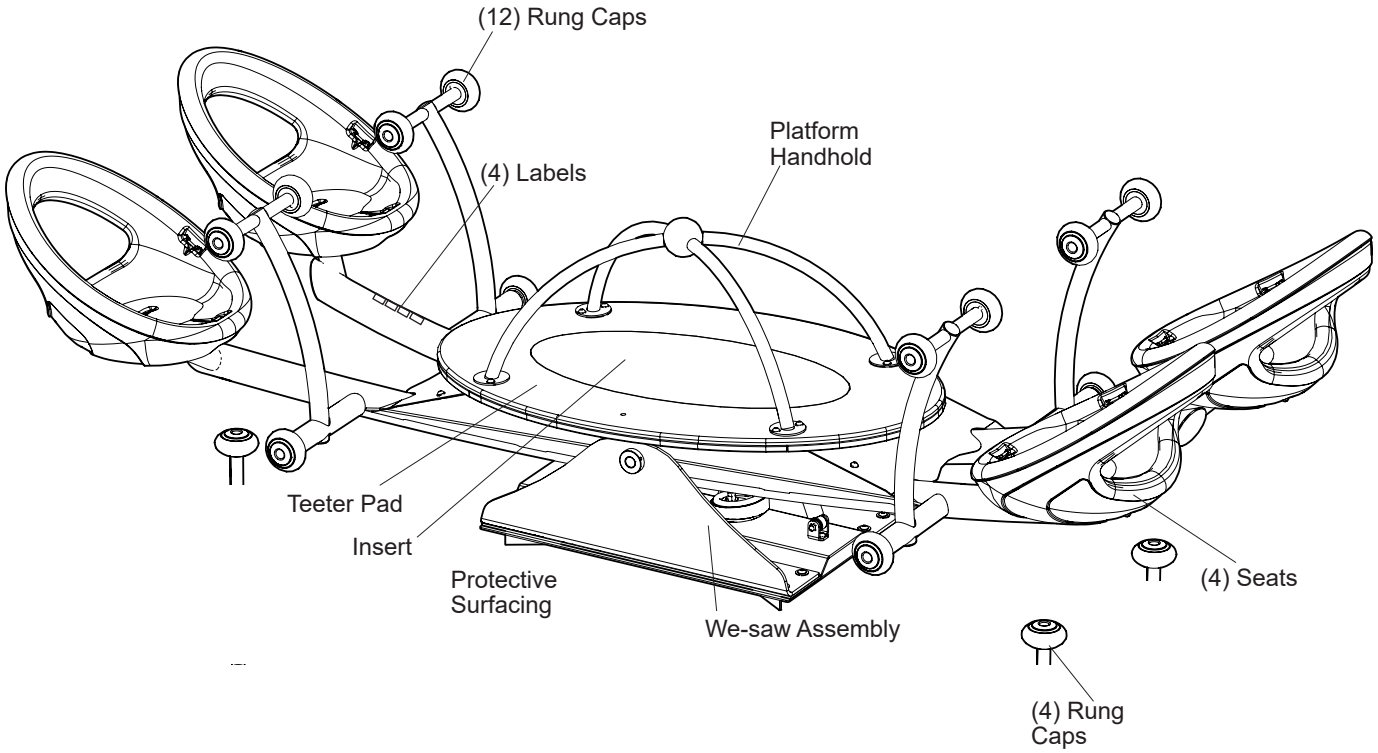
ISO 9001 Certified

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.)

PLAN VIEW





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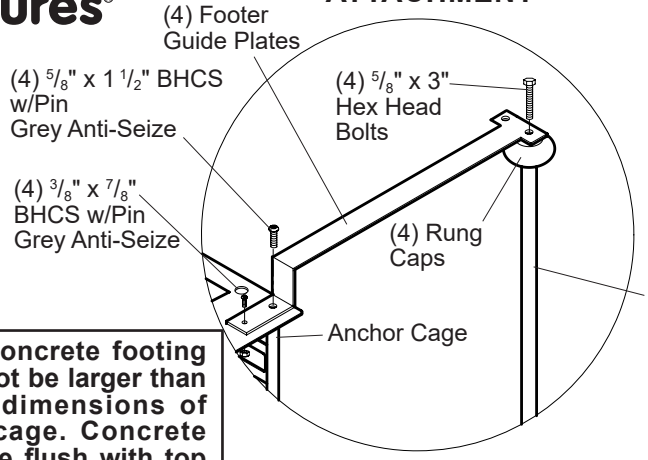
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SAFETY NOTE

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.)

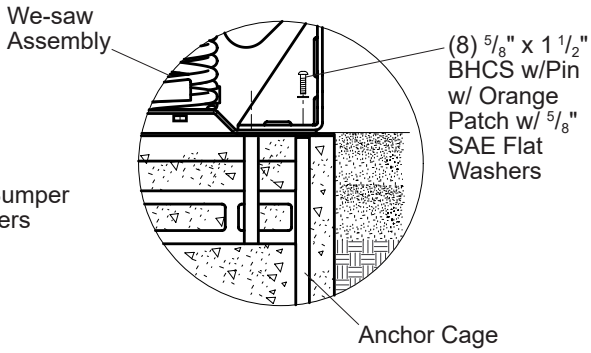
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DETAIL
BUMPER FOOTER ATTACHMENT

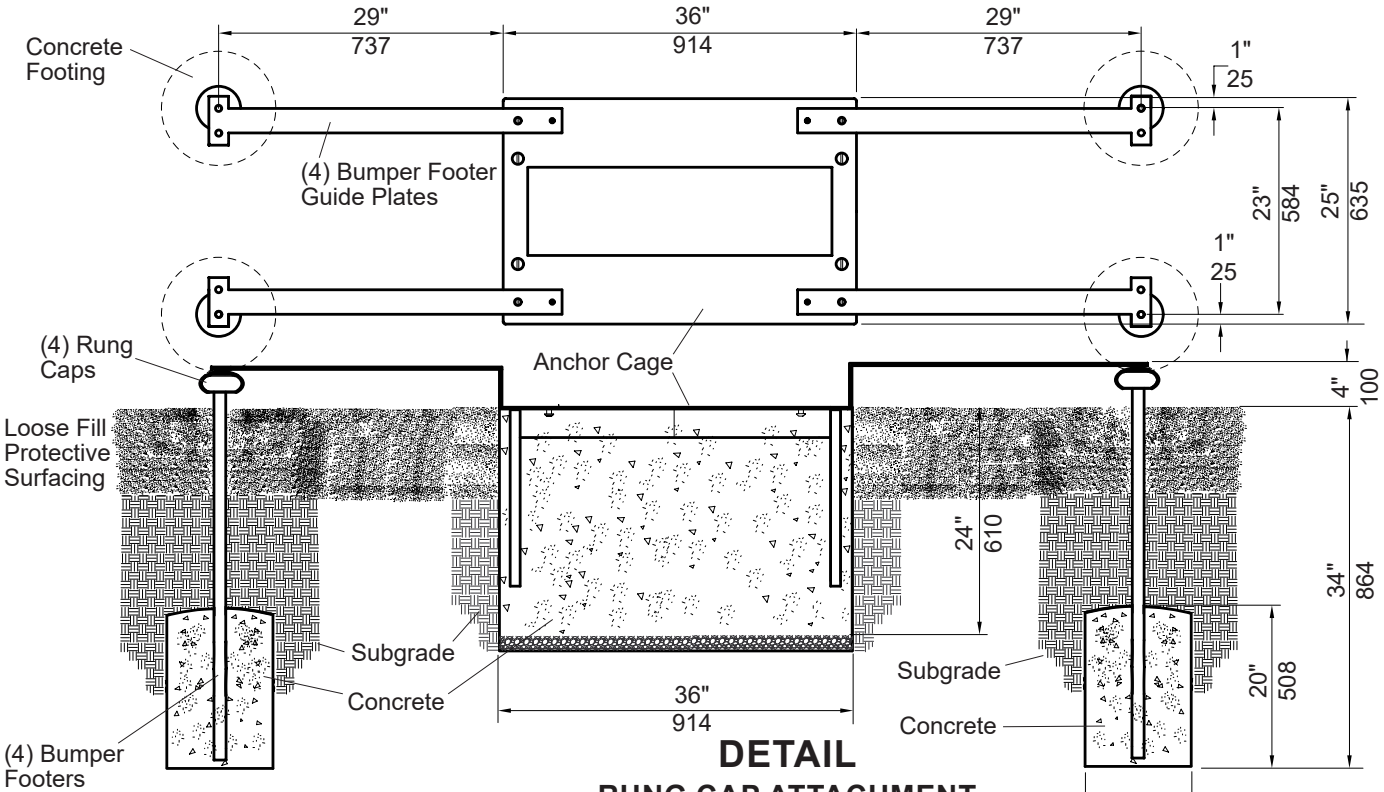


NOTE: Concrete footing should not be larger than outside dimensions of anchor cage. Concrete should be flush with top of anchor cage.

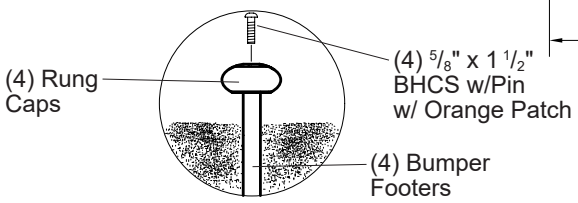
DETAIL
WE-SAW ASSEMBLY ATTACHMENT



DETAIL
CONCRETE FOOTINGS
(WITH FOOTER GUIDE PLATES)



DETAIL
RUNG CAP ATTACHMENT



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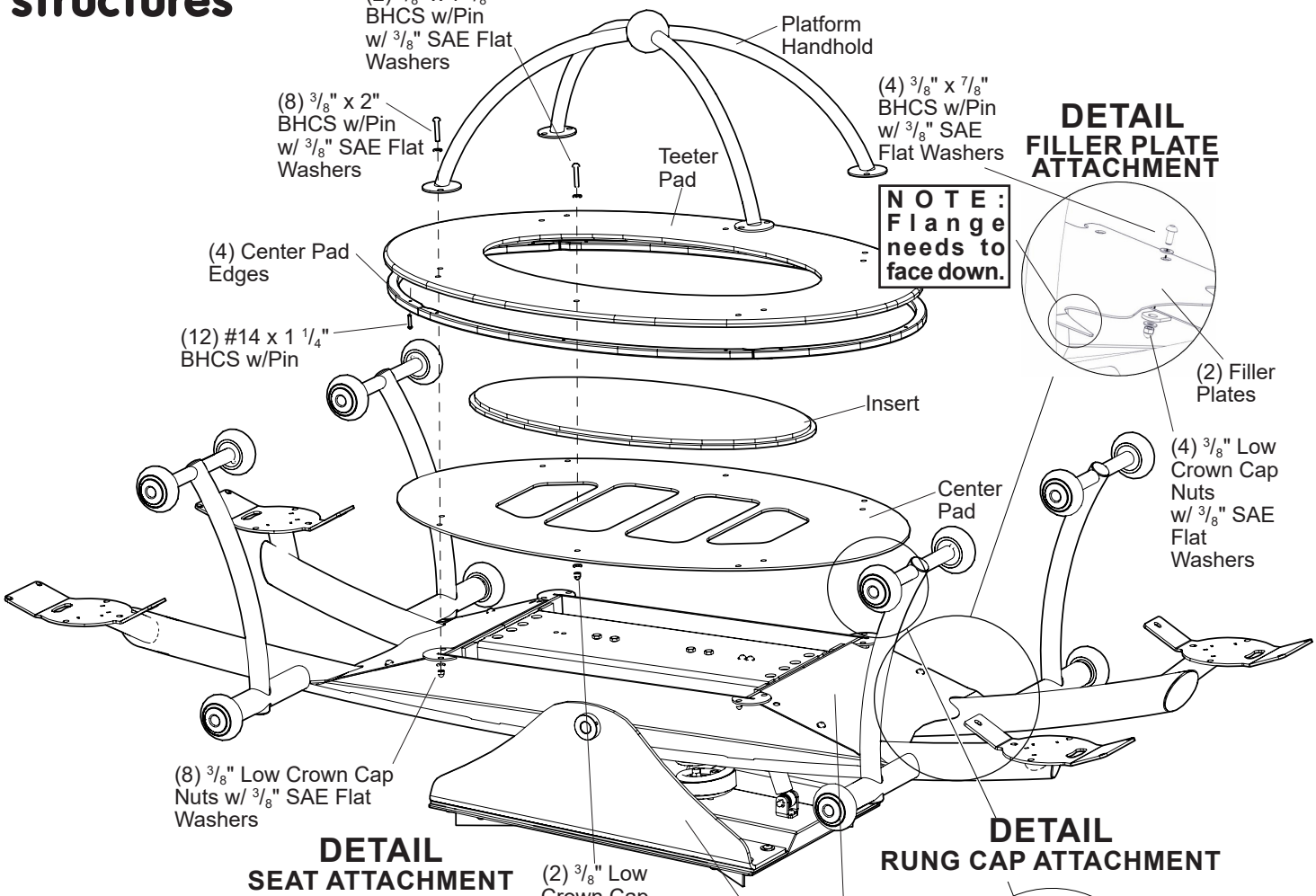
ISO 14001 CERTIFIED

ISO 9001 Certified

SAFETY NOTE

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

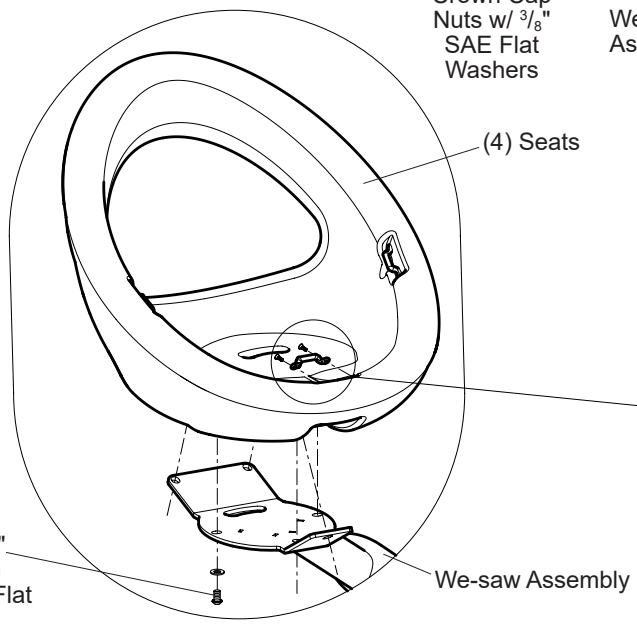
DETAIL
WE-SAW ASSEMBLY



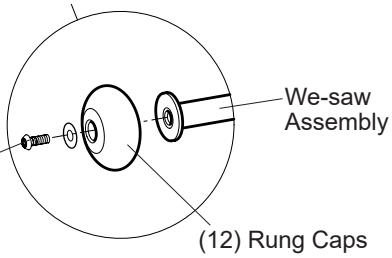
NOTE: Flange needs to face down.

DETAIL
FILLER PLATE ATTACHMENT

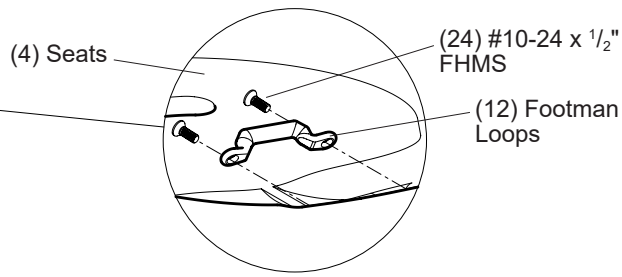
DETAIL
SEAT ATTACHMENT



DETAIL
RUNG CAP ATTACHMENT



DETAIL



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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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SAFETY NOTE

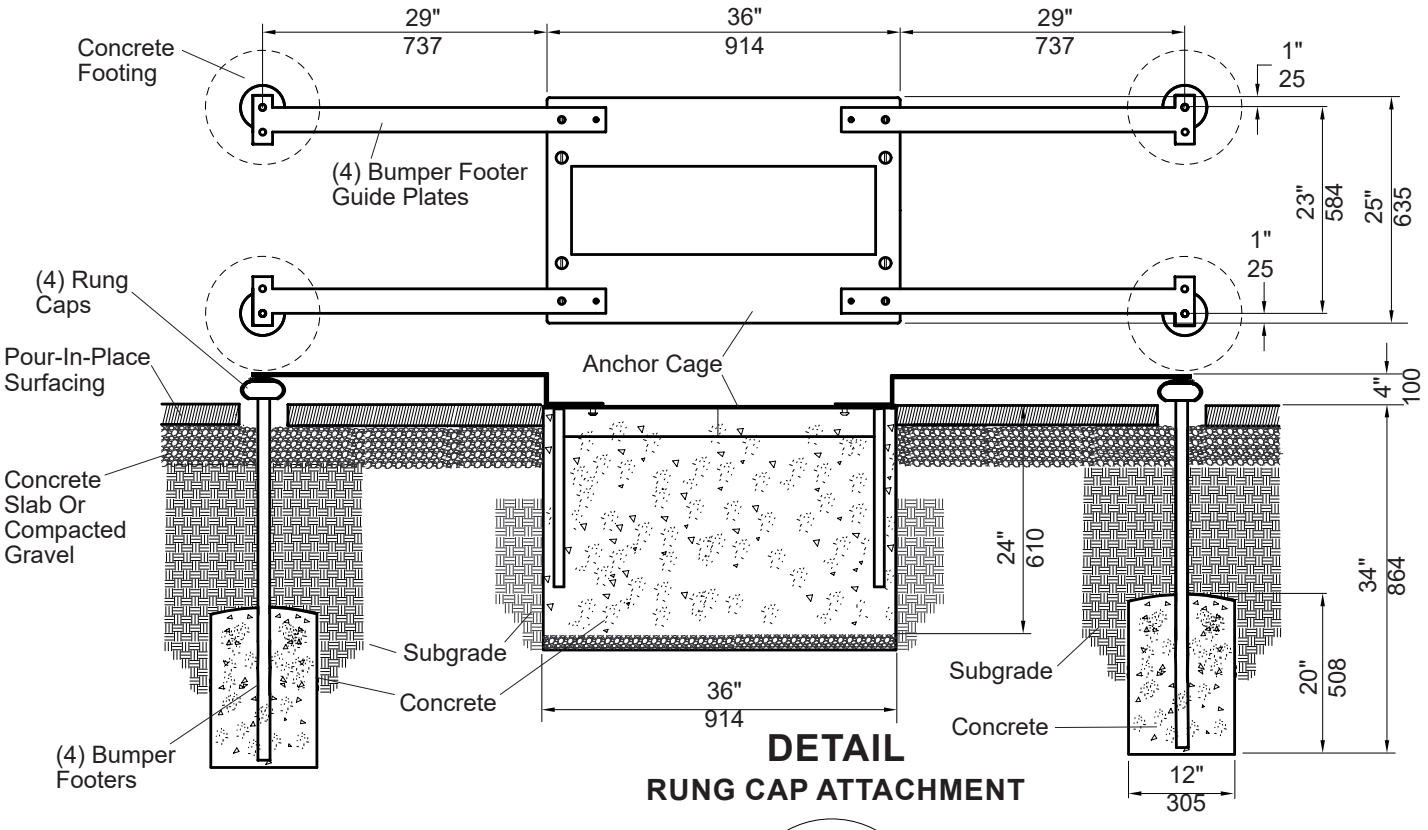
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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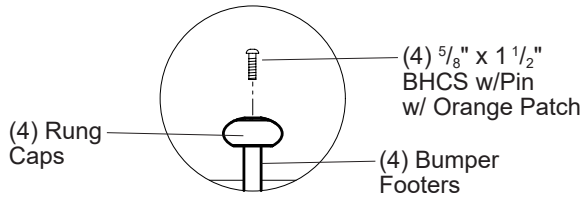
DETAIL

DIRECT BURY WITH POUR-IN-PLACE SURFACING

CONCRETE FOOTINGS
(WITH FOOTER GUIDE PLATES)



DETAIL
RUNG CAP ATTACHMENT



Kids In Motion

186490 We-saw™

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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Kids In Motion 186490 We-saw™

Parts List

Part#	Description	Qty.
181123	Seat, Specify Color	4
182262	Rung Cap, Black	16
182458	Platform Handhold, Specify Color	1
182947	Center Pad, Black	1
211277	GripX Insert, Black	1
183327	Teeter Pad, Specify Color	1
183328	Pad Edge Long, Specify Color	2
183329	Pad Edge Short, Specify Color	2
183748	Filler Plate, Specify Color	2
186453	Anchor Cage, Black	1
187231	Bumper Footer, Specify Color	4
273373	We-saw Assembly, Specify Color	1
186951	Footer Guide Plate, Black	4
249513	**We-saw Hardware Package**	1
100173	3/8" x 2" BHCS w/Pin, SST	8
100196	3/8" x 7/8" BHCS w/Pin, SST	28
100201	5/8" x 1 1/2" BHCS w/Pin, SST-Patch	12
100365	3/8" SAE Flat Washer, SST	64
129500	5/8" SAE Flat Washer, SST	8
129672	#14 x 1 1/4" TORX BHCS, SST	12
207709	Footman Loop, SST	12
162462	#10-24 x 1/2" FHMS	24
115176	ASTM Hard Surface Warning Label	1
156846	Play Safe Label, 2-12 Years	1
182212	Entanglement Warning Label	1
182213	Hot Surface Warning Label	1
100349	3/8" Low Crown Cap Nut, SST	14
127463	Bit Hex TPP T-27 Torx	1
113027	3/8" x 1 3/8" BHCS w/Pin, SST	2
100195	3/8" x 5/8" BHCS w/Pin, SST	12
188123	**Bumper Guide Plate Hardware Package**	1
127546	3/8" x 7/8" BHCS w/Pin, SST	4
127551	5/8" x 1 1/2" BHCS w/Pin, SST	4
188124	5/8" x 3" Hex Cap Screw, ZP	4

Specifications

We-saw Assembly: **(Arm Assembly)** Weldment comprised of 3.500" (88,9 mm) O.D. x 8 GA. (.162") (4,11 mm) wall galvanized steel tubing, 2.375" (60,33) O.D. RS40 (.130"-.140") (3,30 mm-3,56 mm) wall galvanized steel tubing, 1.900" (48,26 mm) O.D. RS40 (.120"-.130") (3,05 mm-3,30 mm) wall galvanized steel tubing, .375" (9,52 mm) thick HRPO steel plate and .250" (6,35 mm) stainless steel plate. Finish: Proshield®, specify color. **(Rocker Assembly)** Weldment comprised .250" (6,35 mm) HRPO steel plate and 2" (50 mm) x 5/16" (7,93 mm) wall steel tubing. Finish: ProShield, Black in color. **(Base)** Weldment comprised .375" (9,53 mm) HRPO steel plate and 2.500" (63,50 mm) O.D. x 1.150" (29,21 mm) I.D. stainless steel tubing. Finish: ProShield, Black in color. **(Base Plate)** Fabricated from .250" (6,35 mm) HRPO steel plate. Finish: ProShield, Black in color. **(Spring)** 5 5/8" (142,87 mm) diameter 13/16" (20,62 mm) tempered alloy steel coil. Finish: ProShield, Black in color. **(Spring Wedge)** Cast from ductile iron alloy. Finish: ProShield, Black in color. **(Bearings)** 1.145" (29,08 mm) I.D. igus **(Shaft)** 1.14" (28,96 mm) O.D. stainless steel. **(Cylinder)** Chrome plated steel.

Filler Plate: Fabricated from 5052 Sheet Aluminum. Finish: ProShield, color specified.

GripX Insert: 3/4" (19,05 mm) Thick Permalene®, black in color.

Teeter Pad & Edges: Permalene®, color specified.

Platform Handhold: Weldment comprised of 1.315" (33,4 mm) O.D. RS20 (.080"-.090") (2,03 mm - 2,28 mm) wall galvanized steel tubing, 10 GA (.135") (3, 42 mm) HRPO steel sheet and 7 GA. (.179") (4,54 mm) HRPO steel sheet. Finish: Proshield®, color specified.

Anchor Cage: Weldment comprised of 1.029" (26,13 mm) O.D. RS20 (.070"-.080") (1,77 mm - 2,03 mm) wall galvanized steel tubing with 203 or 303 stainless steel welded inserts with 5/8" internal threads and 7 GA. (.179") (4,54 mm) HRPO steel sheet. Finish: Proshield®, black in color.

Rung Cap: Molded from U.V. stabilized black EPDM rubber encapsulating .250" (6,35 mm) thick aluminum sheet and .125" (3,18 mm) thick aluminum plate.

Center Pad: Fabricated from .250" (6,35 mm) thick HRPO steel sheet plate. Finish: Proshield®, black in color.

Bumper Footer: Weldment comprised of 1.315" (33,40 mm) O.D. RS20 (.080"-.090") (2,03 mm - 2,29 mm) wall galvanized steel tubing with 203 or 303 stainless steel welded inserts with 5/8" internal threads and .250" (6,35 mm) thick stainless steel plate. Finish: Proshield®, color specified.

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

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

Installation Time: Approx. 16 man hours
Fall Height: 54" (1,37 m)
Min. Use Zone: 6' (1,83 m)
Area Required: 16' 8" x 23' 5" (5,08 m x 7,14 m)
Concrete Req.: Approx. 17.82 cu. ft.
Weight: 783 lbs.

Specifications are subject to change without notice.

ECO# 0102391 Document 32121700 replaces 27337600. Updated bearing

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Installation Instructions

1) **(Direct Bury)** Dig footing holes for anchor cage and bumper footers. Build a form for anchor cage concrete footing. Concrete footing for anchor cage should not be larger than outside dimensions of anchor cage. Refer to Concrete Footing Details.

2) Attach rung caps and bumper footers to bumper footer guide plates using $^{5}/_{8}$" x 3" hex head bolts. Refer to the Bumper Footer Attachment Detail.

3) Attach bumper footer guide plates to anchor cage using $^{5}/_{8}$" x 1 $^{1}/_{2}$" BHCS w/pin and $^{3}/_{8}$" x $^{7}/_{8}$" BHCS w/pin. Refer to the Bumper Footer Attachment Detail.

4) Place anchor cage and bumper footers in footing holes, as shown. Top of anchor cage should be flush with finished grade. With anchor cage level and bumper footers plumb, pour concrete. Concrete should be flush with top of anchor cage. Allow concrete footing to cure for a minimum of 72 hours before continuing. Refer to the Concrete Footing Details.

5) Remove footer guide plates from anchor cage and bumper footers. Discard bumper guard plates and hardware. Attach rung caps to bumper footers using $^{5}/_{8}$" x 1 $^{1}/_{2}$" BHCS w/pin. Refer to the Rung Cap Attachment Detail.

6) Set We-saw assembly onto anchor cage. Line up holes in We-saw assembly bottom plate with threaded inserts in anchor cage. Attach We-saw assembly to anchor cage using $^{5}/_{8}$" x 1 $^{1}/_{2}$" BHCS w/pin with $^{5}/_{8}$" SAE flat washers. Refer to the We-saw Assembly Attachment Detail.

7) Attach filler plates to We-saw assembly using #3/8 x 7/8" BHCS w/ pin with $^{3}/_{8}$" SAE flat washers and $^{3}/_{8}$" low crown cap nuts with $^{3}/_{8}$" SAE flat washers. Refer to the Filler Plate Attachment Detail. Make sure flanges on filler plates are pointing downwards.

8) Attach center pad edges to teeter pad, using #14 x 1 $^{1}/_{4}$" BHCS w/pin. Refer to the We-saw Assembly Detail.

9) Attach platform handhold, teeter pad, insert and center pad to We-saw assembly attachment plates, using $^{3}/_{8}$" x 2" BHCS w/pin with $^{3}/_{8}$" SAE flat washers and $^{3}/_{8}$" low crown cap nuts with $^{3}/_{8}$" SAE flat washers. Refer to the We-saw Assembly Detail.

10) Attach teeter pad to center pad using $^{3}/_{8}$" x 1 $^{3}/_{8}$" BHCS w/pin with $^{3}/_{8}$" SAE flat washers and $^{3}/_{8}$" low crown cap nuts with $^{3}/_{8}$" SAE flat washers. Refer to the We-saw Assembly Detail.

11) Attach rung caps to We-saw assembly using $^{5}/_{8}$" x 1 $^{1}/_{2}$" BHCS w/pin. Refer to the Rung Cap Attachment Detail.

12) Attach seats to We-saw assembly using $^{3}/_{8}$" x $^{7}/_{8}$" BHCS w/pin with $^{3}/_{8}$" SAE flat washers. Refer to the Seat Attachment Detail.

13) Attach footman loops,using #10-24 x $^{1}/_{2}$" flat head screws, as shown. Footman loops are used for seat belts (not included).

14) Apply Play Safe and warning labels, as shown.

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

Specifications are subject to change without notice.

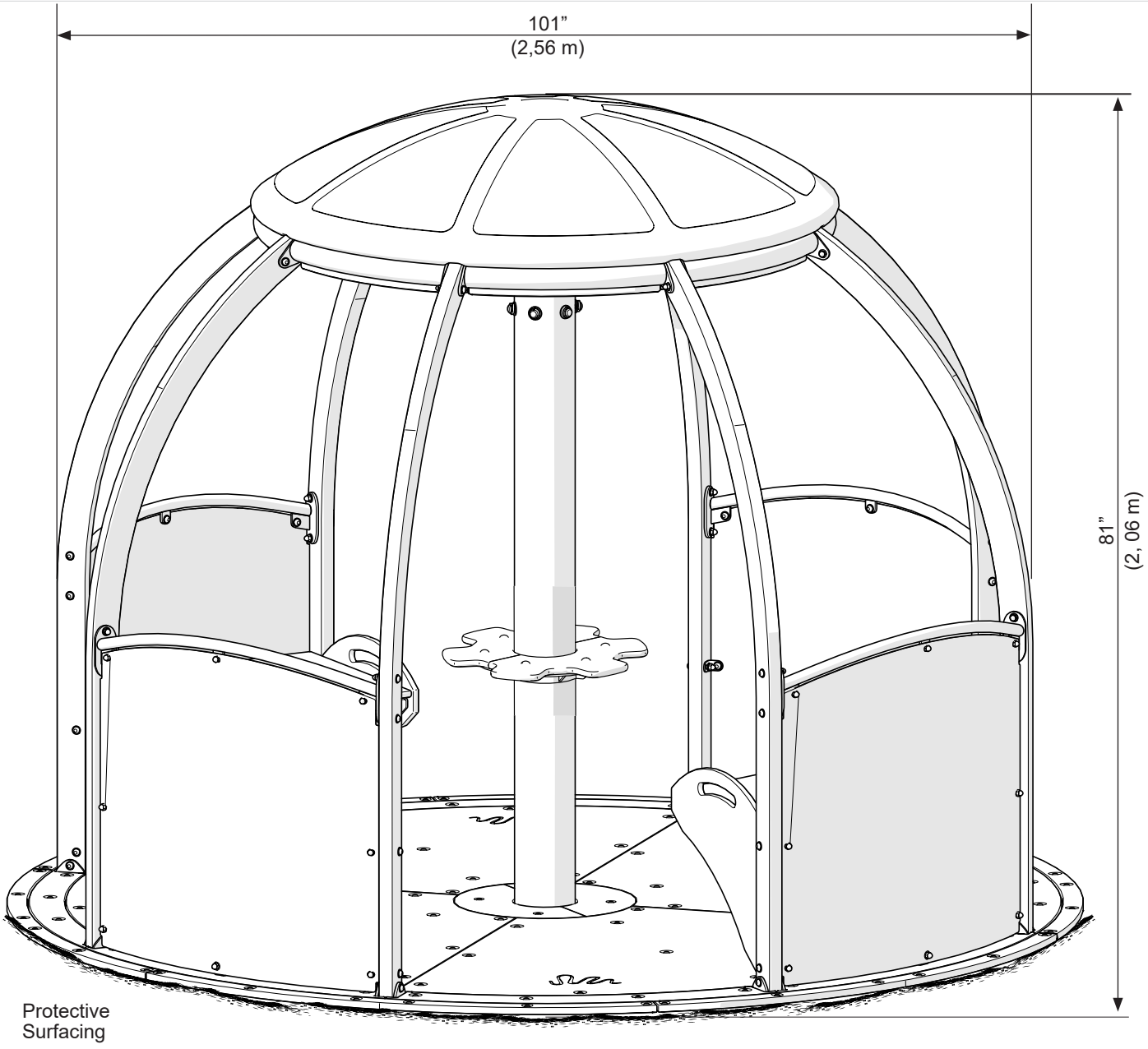
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ISO 14001 CERTIFIED

ISO 9001 Certified

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

https://bit.ly/2ESCwd0

Kids in Motion

248819 We-Go-Round™ w/ Perf Panels

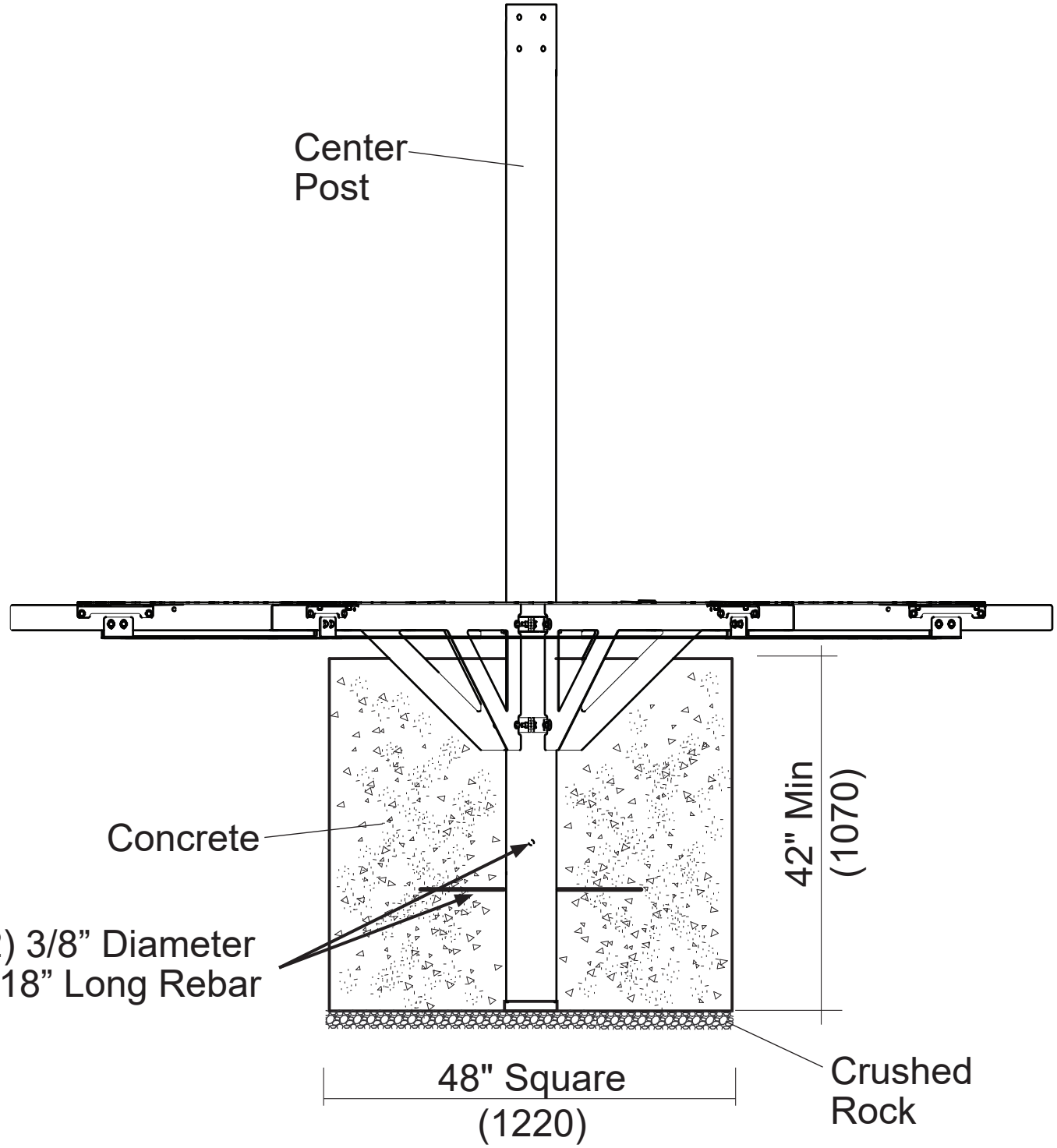
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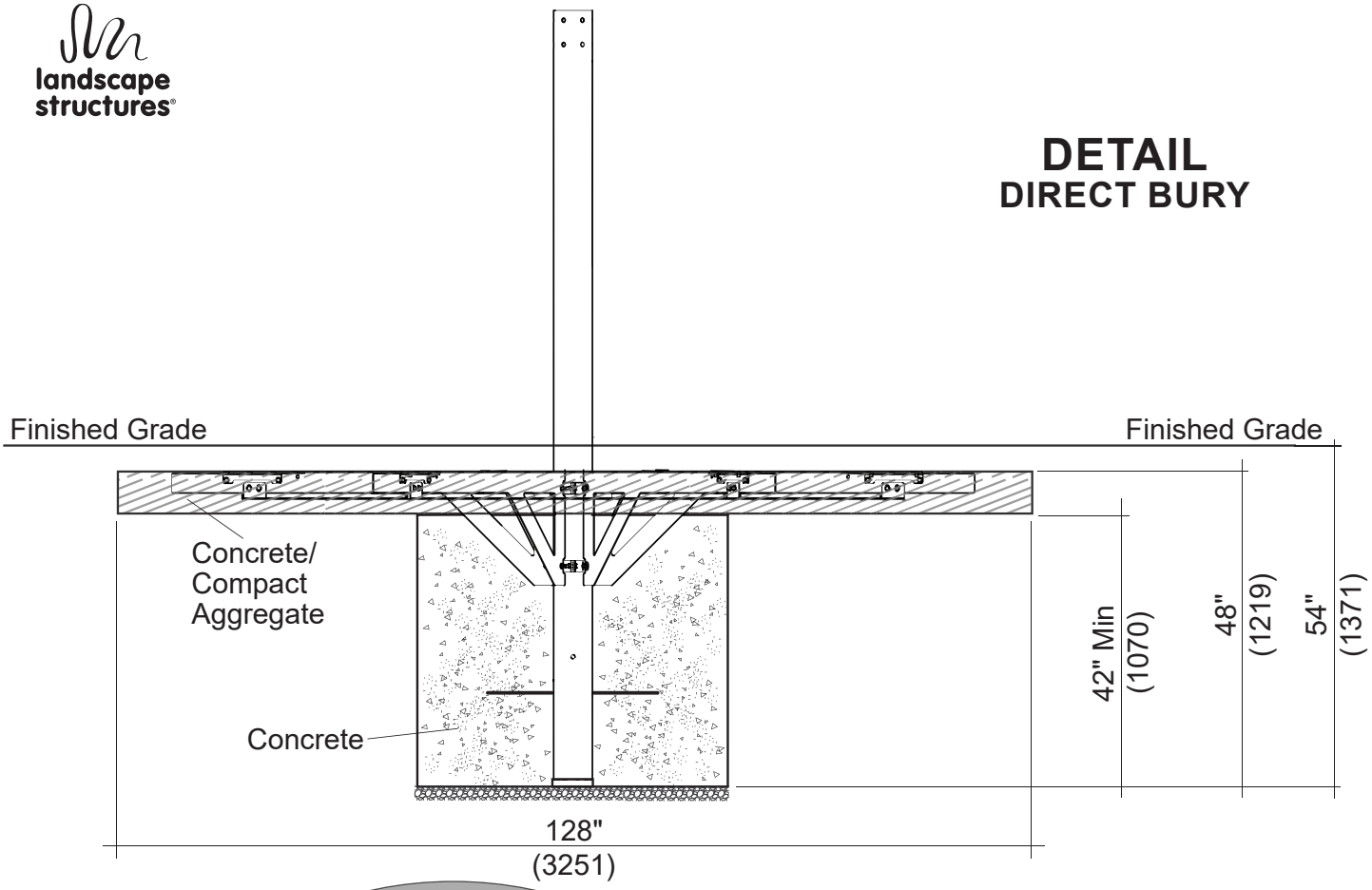
DETAIL
DIRECT BURY



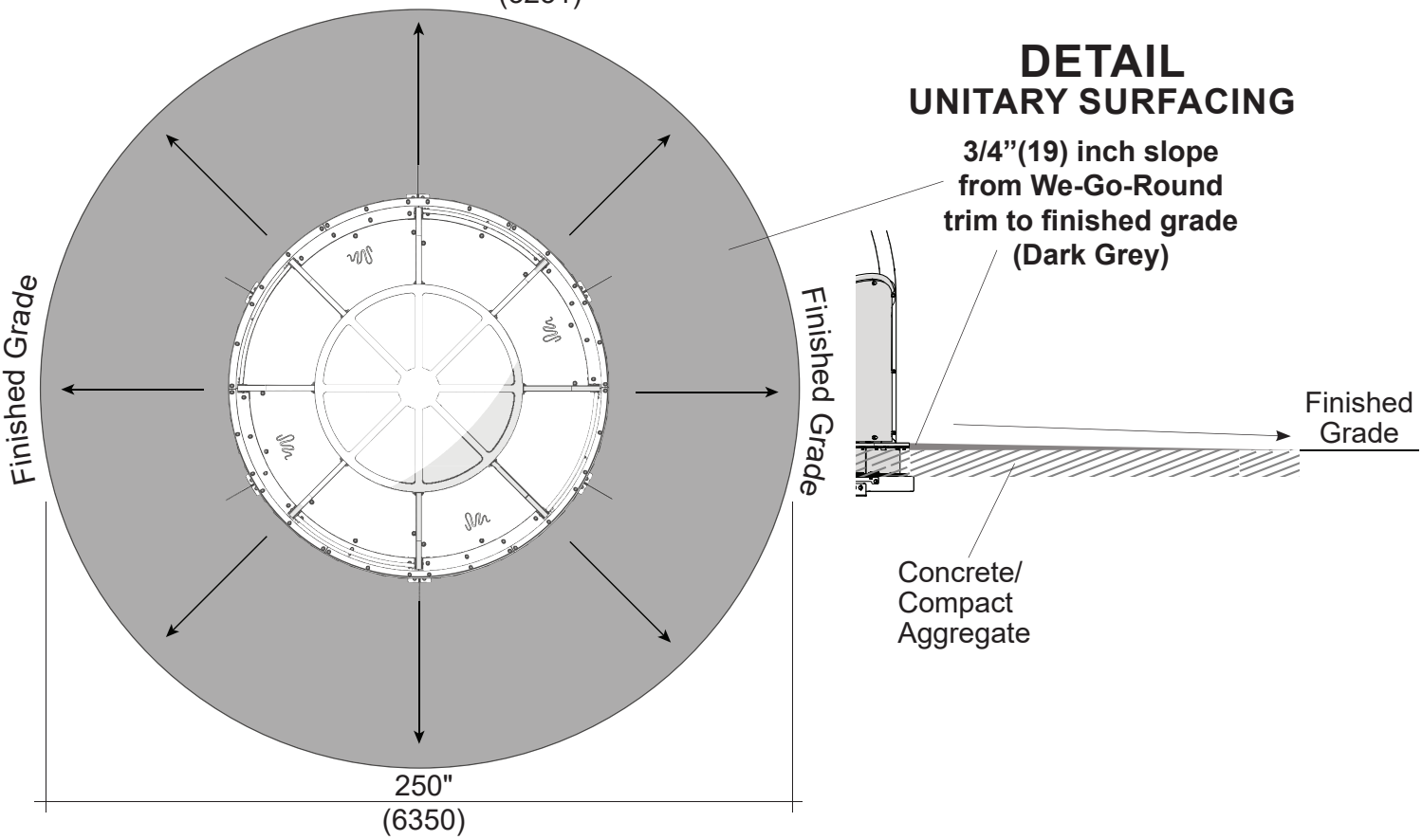
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DETAIL
DIRECT BURY



DETAIL
UNITARY SURFACING

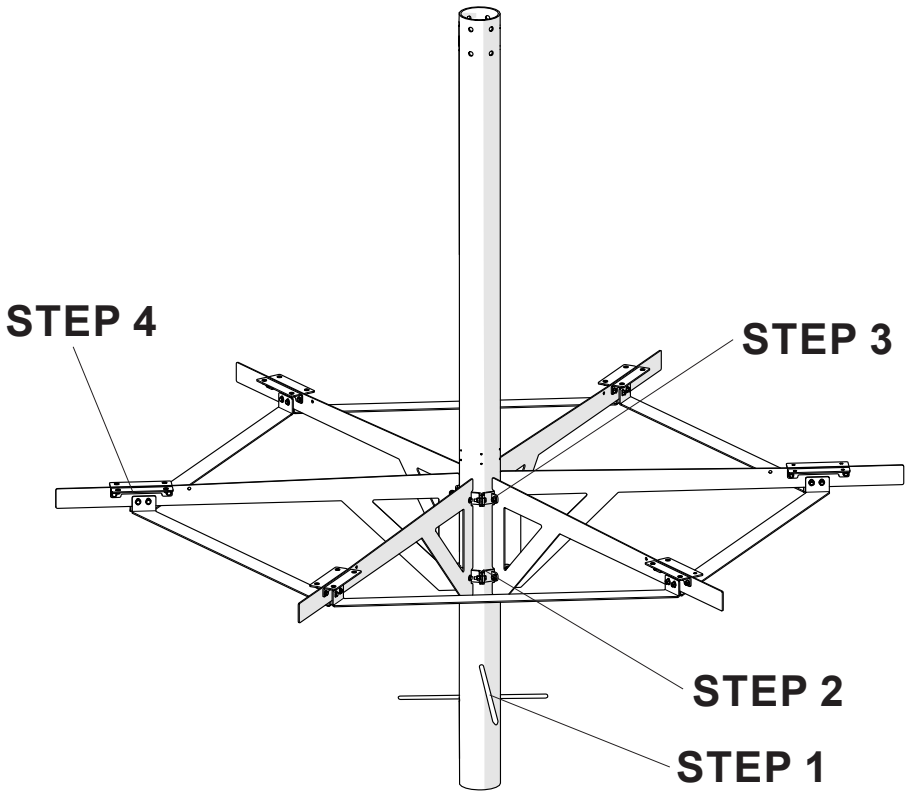


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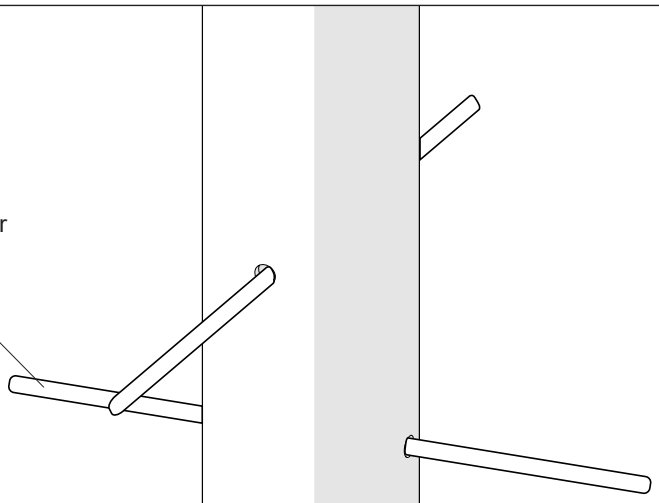
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FOUNDATION I



STEP 1

(2) 3/8” Diameter x 18” Long Rebar

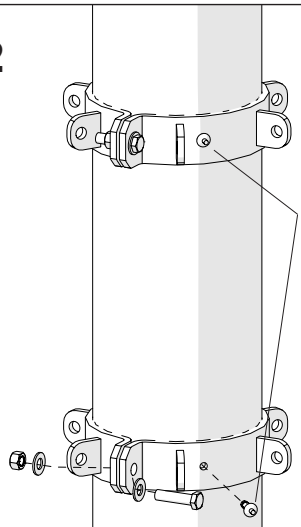


1x	6.0 OD x .25” x 119.5” Post (289361)	2x	3/8” x 18” Rebar (222399)

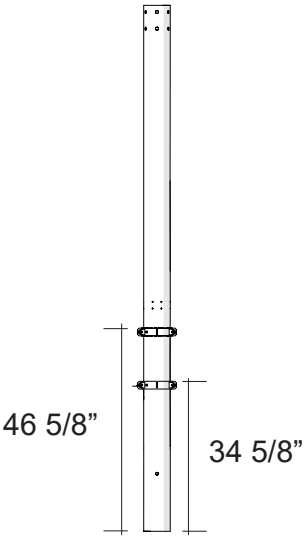
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STEP 2

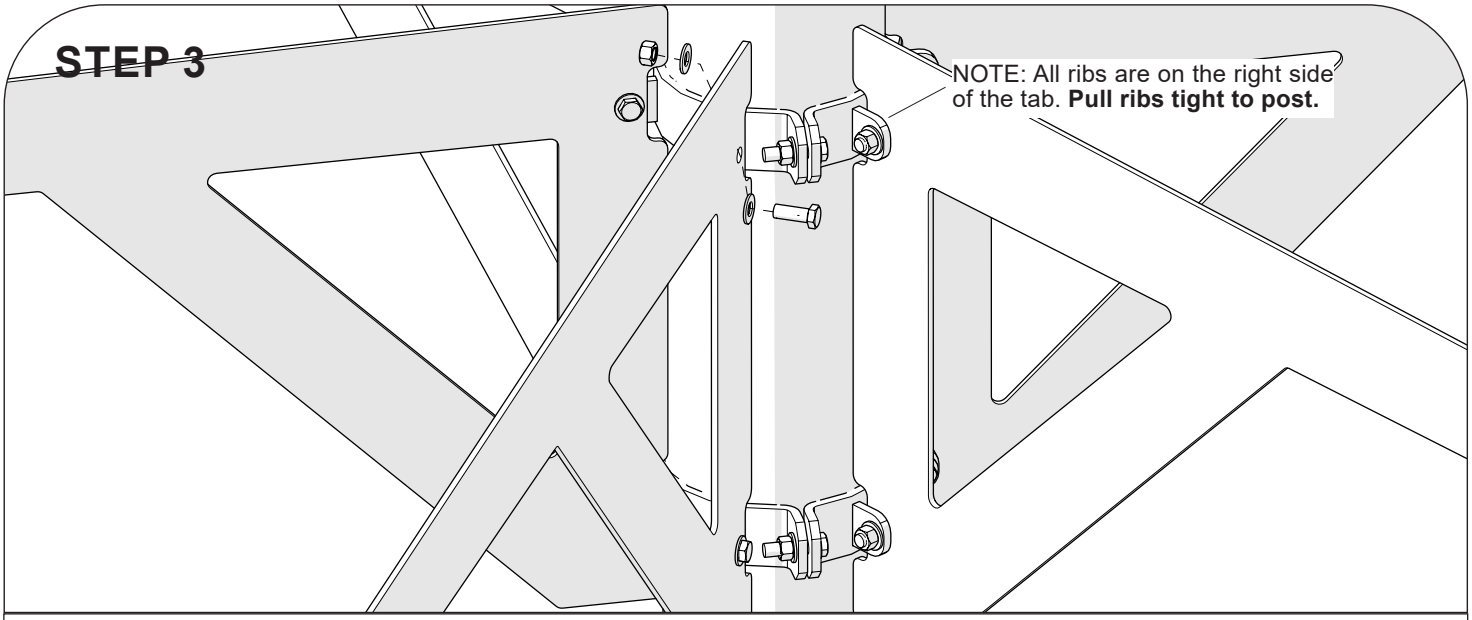


NOTE: Rivets will set clamp height and orientation.



4x	Rib Clamp (249292)	4x	⅜” x 1 ½” Hex Screw (100208)
2x	1/4 x 5/8" Drive Rivet (100610)	8x	3/8" SAE Washer (100365)
4x	3/8" Standard Hex Nut (100327)		

STEP 3



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

6x	Rib (249295)	12x	⅜” x 1” Hex Screw (100206)
12x	3/8" Standard Hex Nut (100327)	24x	3/8" SAE Washer (100365)

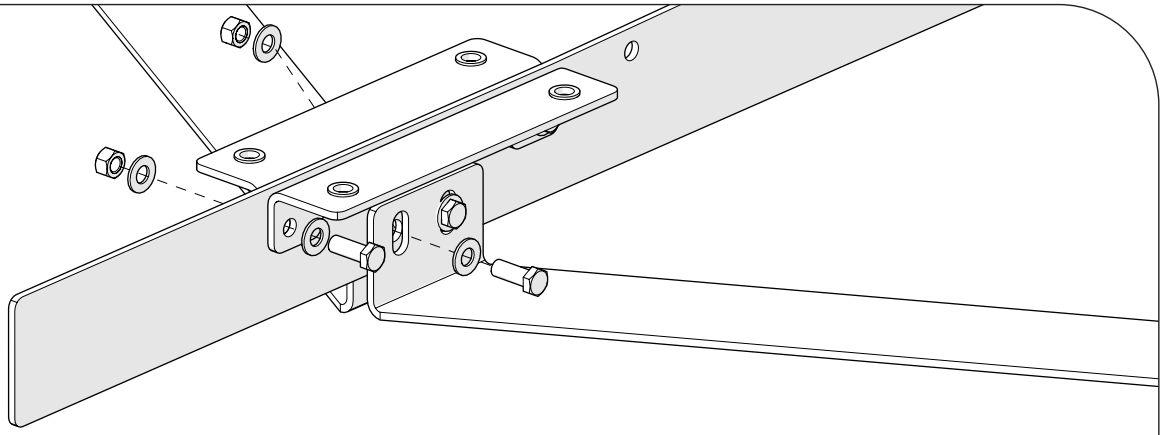
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STEP 4



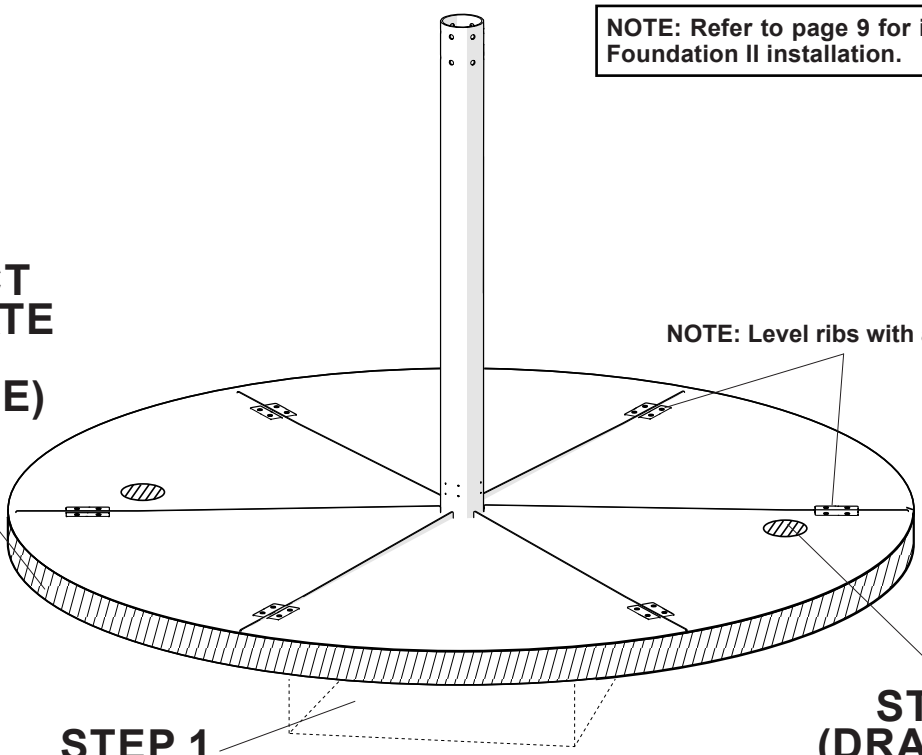
12x	Rib Bracket (249299)	24x	⅜" x 1" Hex Screw (100206)
24x	3/8" Standard Hex Nut (100327)	48x	3/8" SAE Washer (100365)
6x	Rib Footer (249297)		

FOUNDATION II

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

STEP 3 (COMPACT AGGREGATE OR CONCRETE)

NOTE: Level ribs with aggregate/concrete



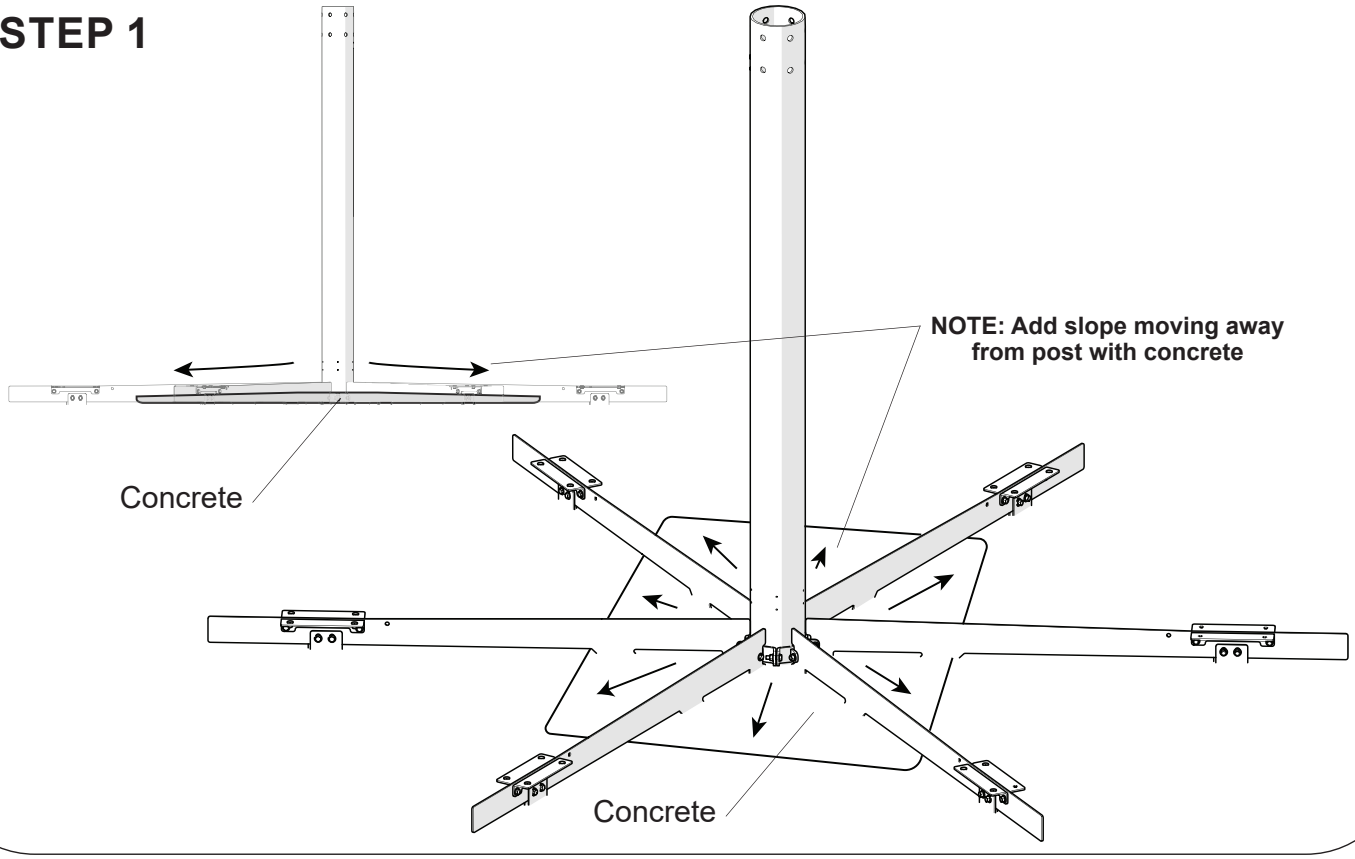
STEP 1 (CONCRETE)

STEP 2 (DRAINAGE)

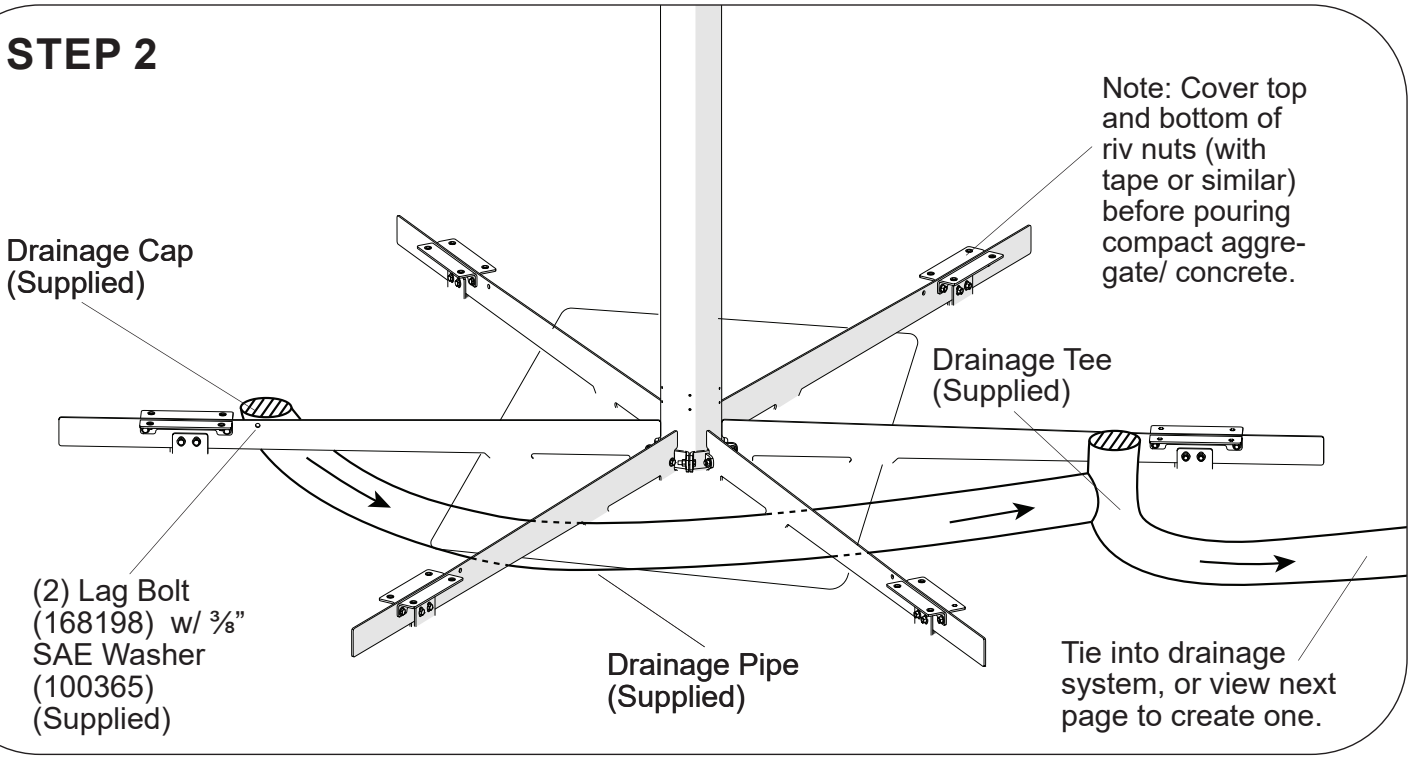
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STEP 1



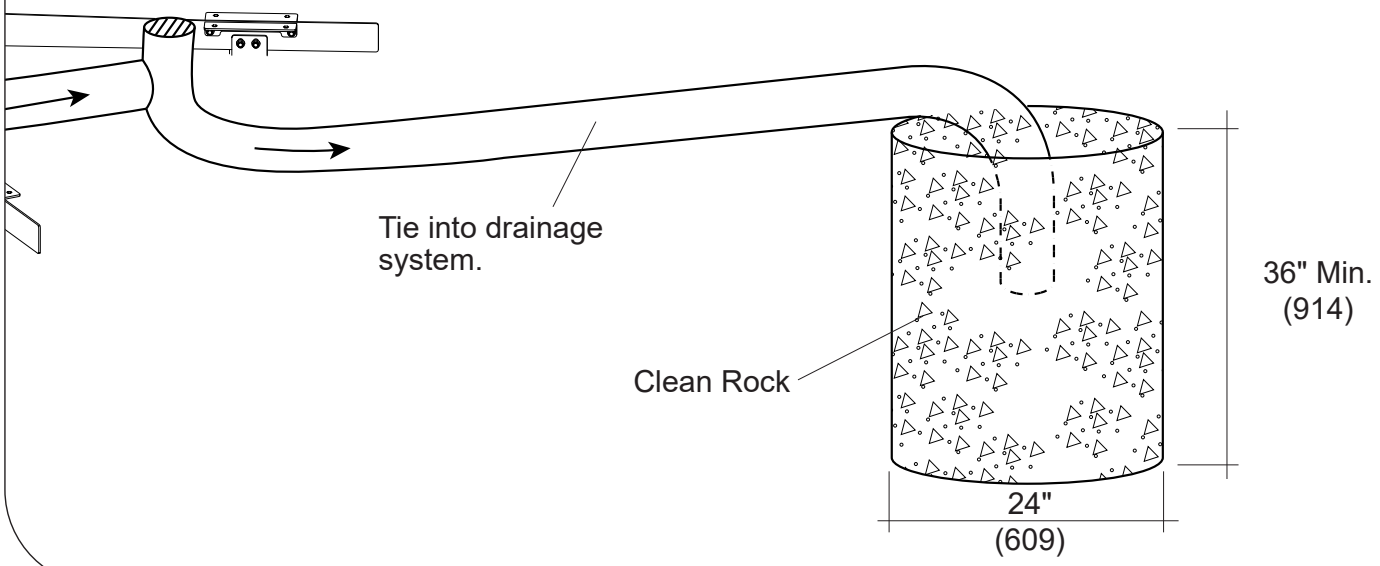
STEP 2



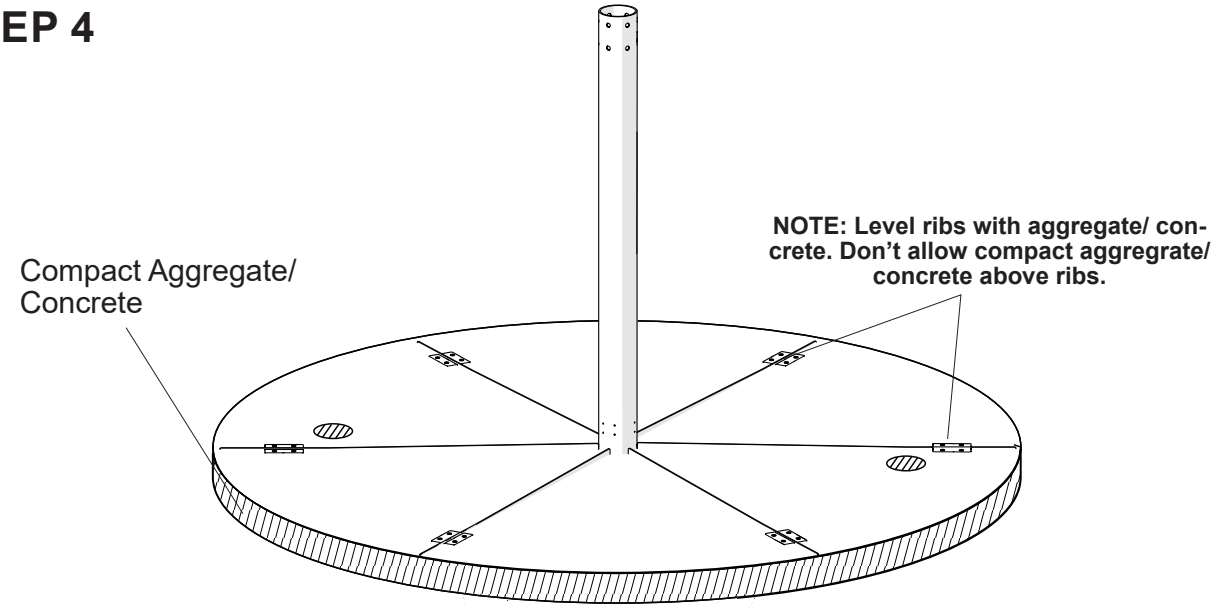
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STEP 3

Note: For sites without an existing drainage system.



STEP 4



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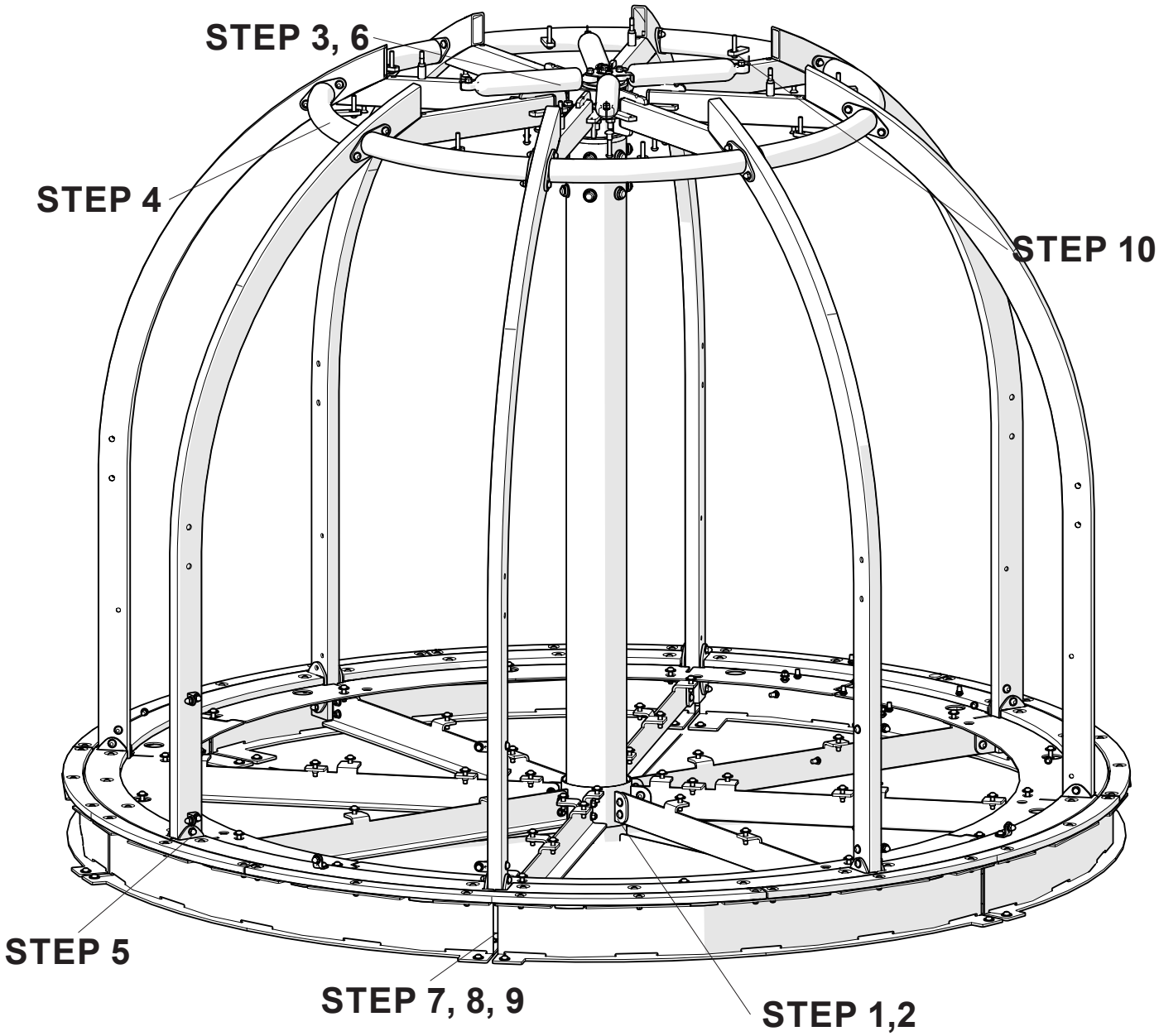






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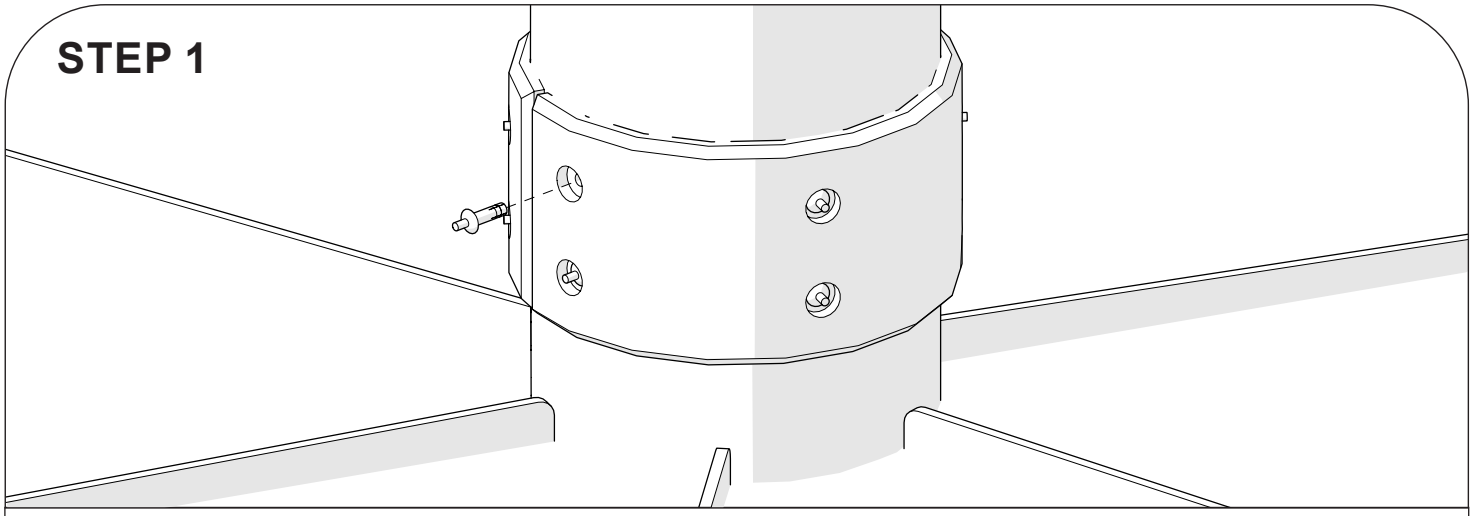
STRUCTURE



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STEP 1



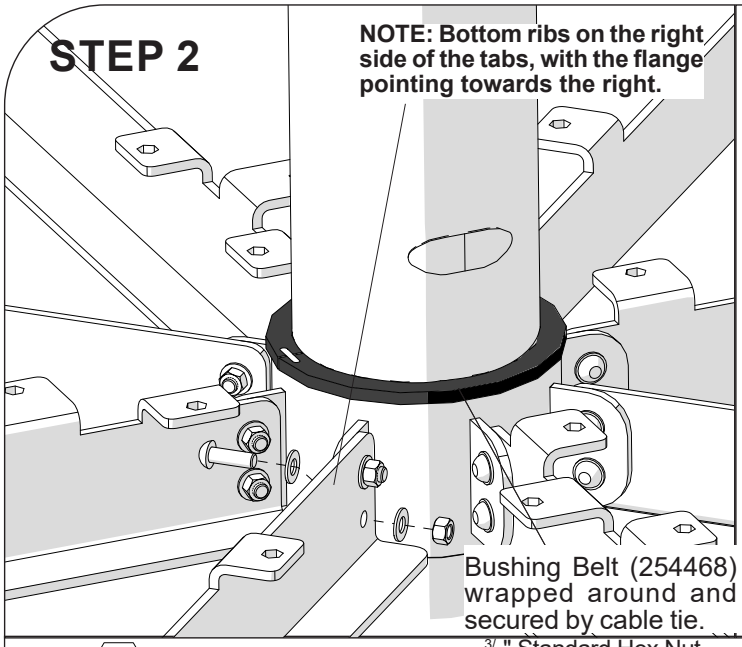
12x ..... 1/4" x 3/8" Drive Rivet (100611)

2x ..... Bushing Tube (292617)

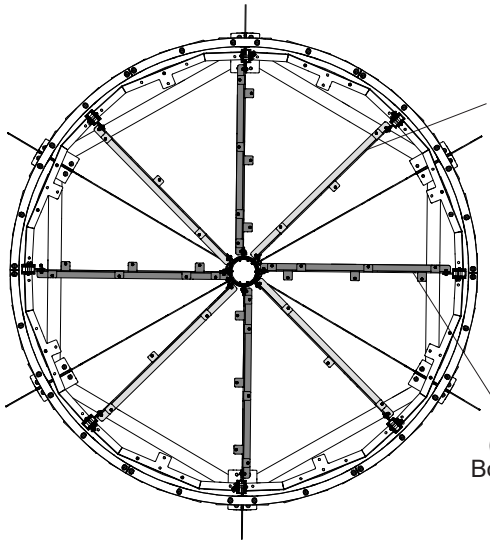
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STEP 2

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.



(4) 3 Tab Bottom Rib

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

(4) 7 Tab Bottom Rib

16x ..... 3/8" Standard Hex Nut (100327)

4x ..... 3 Tab Bottom Rib (249267)

4x ..... 7 Tab Bottom Rib (249266)

1x ..... Bushing Belt (254468)

16x ..... 3/8 x 1 1/8" BHCS (100198)

32x ..... 3/8" SAE Washer (100365)

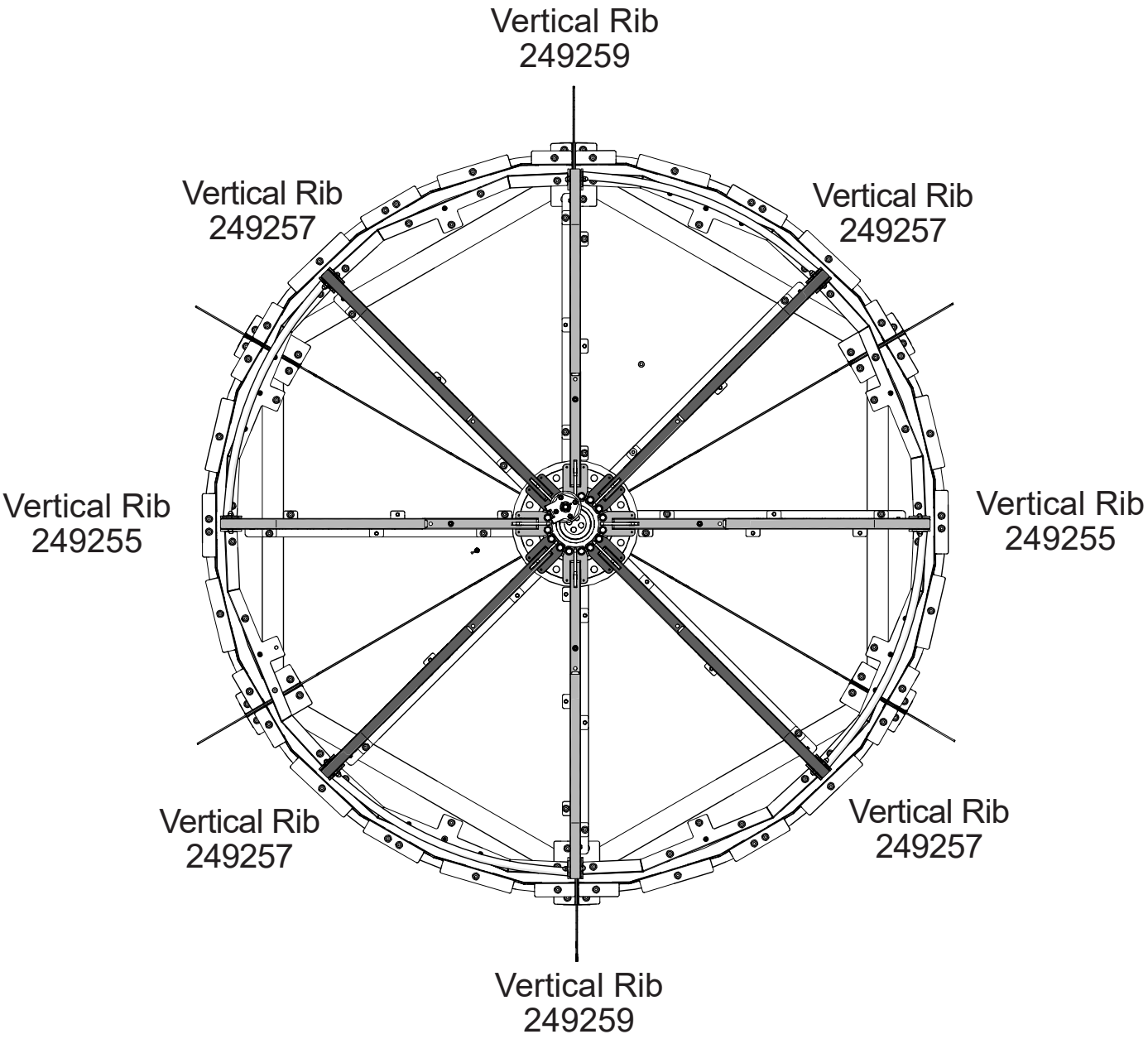
1x ..... Bottom Rib Mount (248520)

1x ..... Cable Tie 5 - 3/4" (109680)

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REFERENCE FOR STEP 4

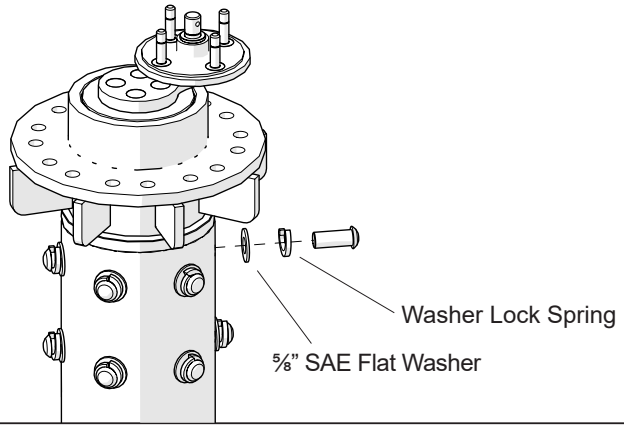
NOTE: Orientation of the Vertical and 3 Tab/ 7 Tab Bottom ribs are independent of each other.



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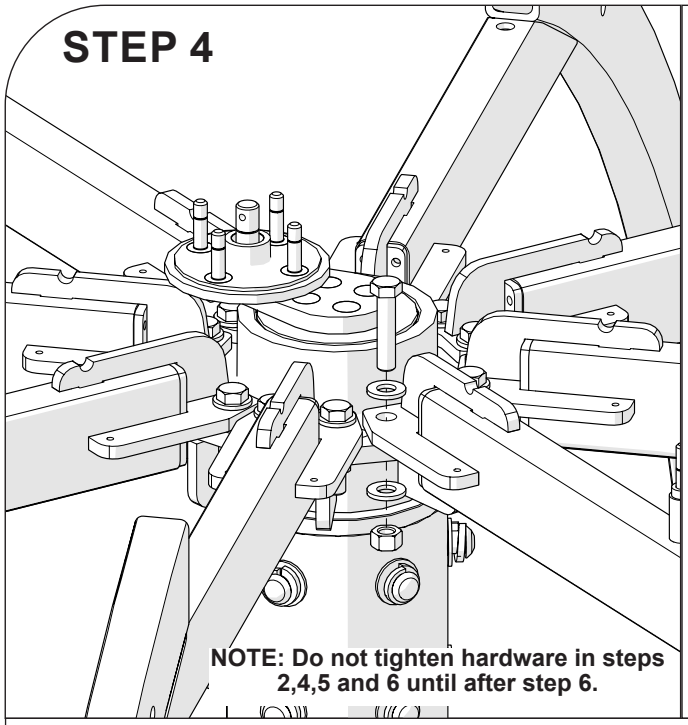
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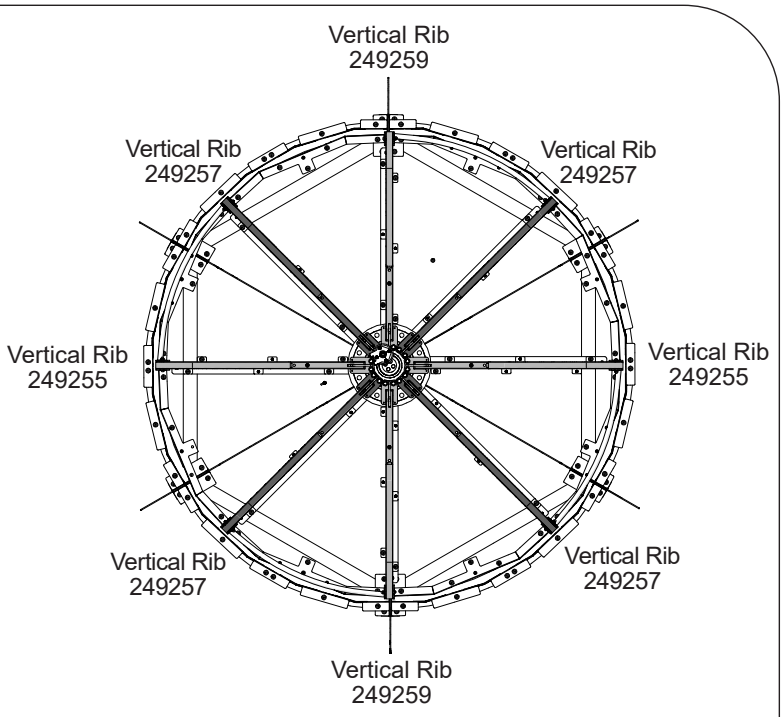
STEP 3



1x	1.25 Offset Bearing and Hub Assembly (254134)	12x	$^{5}/_{8}$ x 1 $^{1}/_{2}$" BHCS (100201)
12x	⅝" SAE Flat Washer (129500)	12x	Washer Lock Spring (175652)

STEP 4



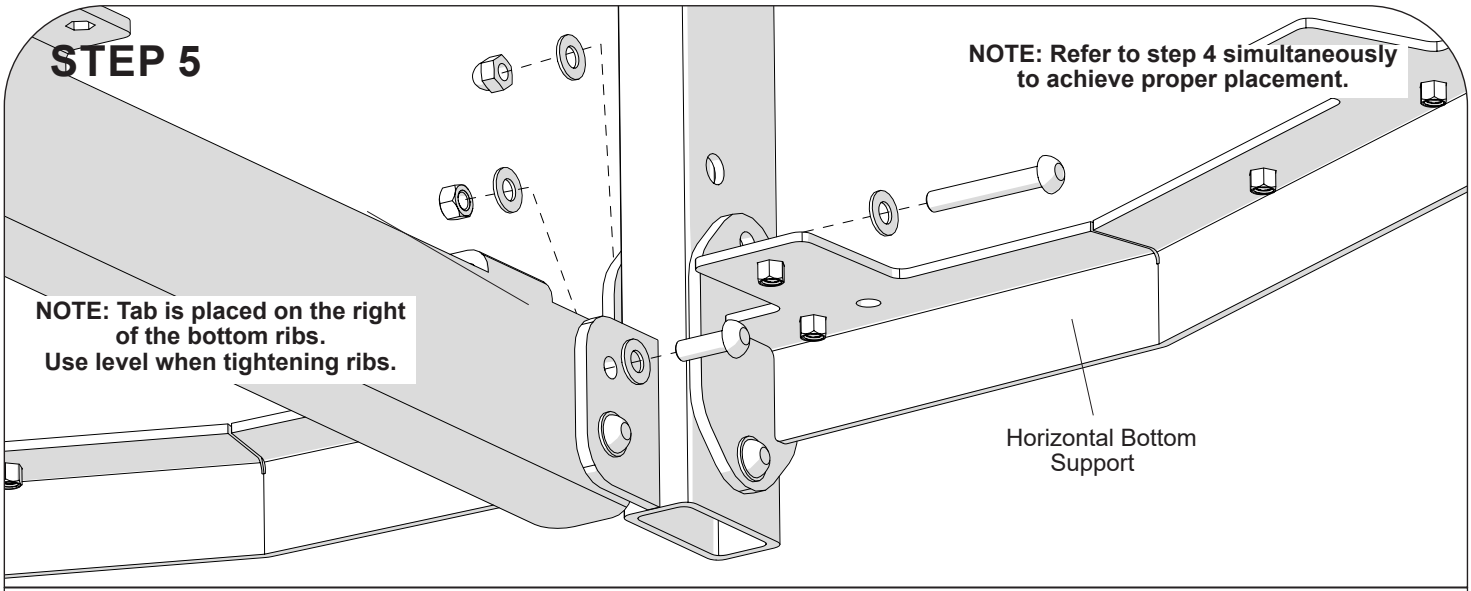


2x	Vertical Rib w/Pin and 1 Insert (249259)	16x	$^{1}/_{2}$" Standard Hex Nut (129692)
4x	Vertical Rib w/o Pin and 1 Insert (249257)	16x	½" x 2 ¼" Hex Screw (131862)
2x	Vertical Rib w/Pin and 4 Inserts (249255)	32x	$^{1}/_{2}$" SAE Washer (113550)

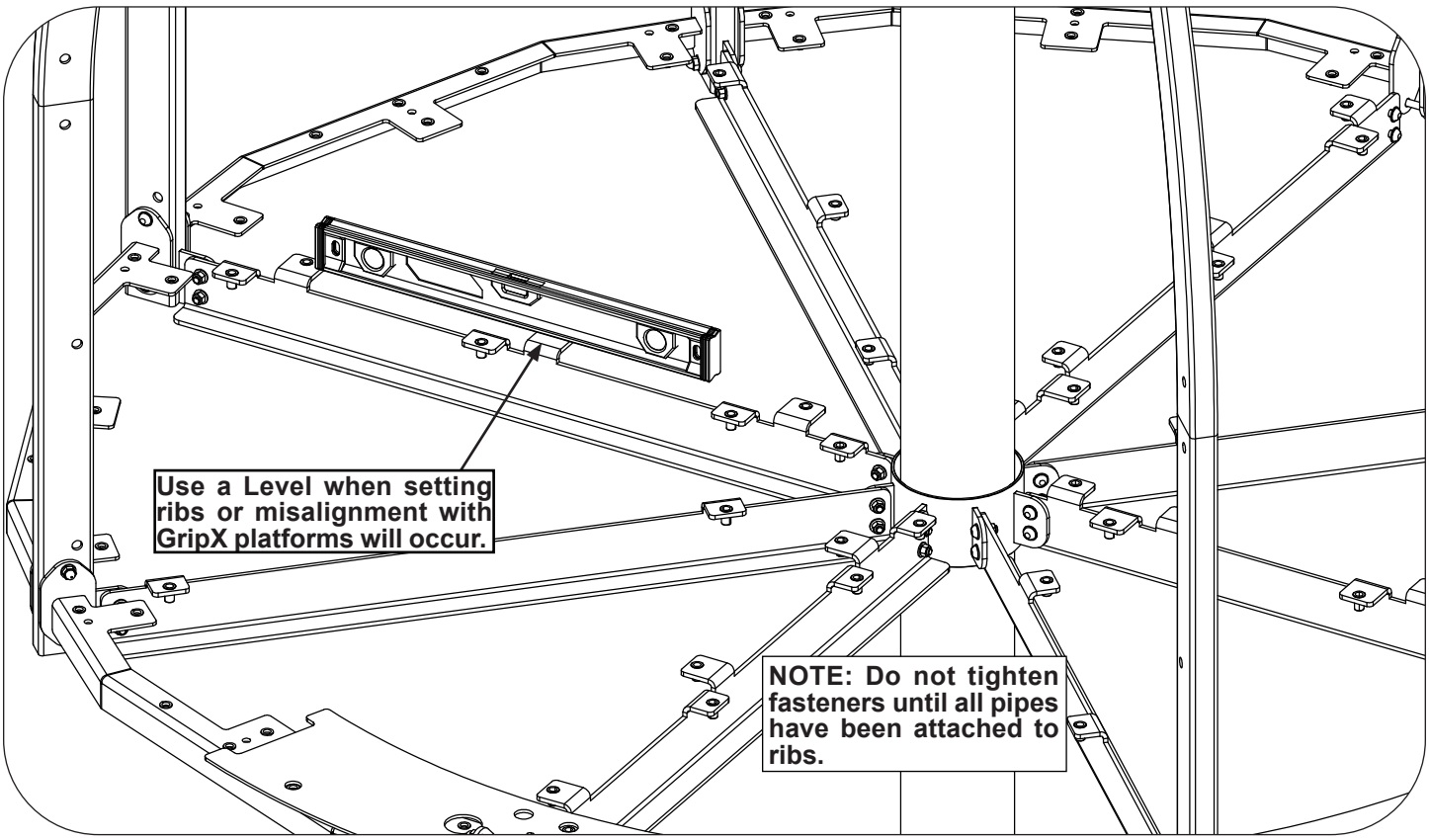
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STEP 5



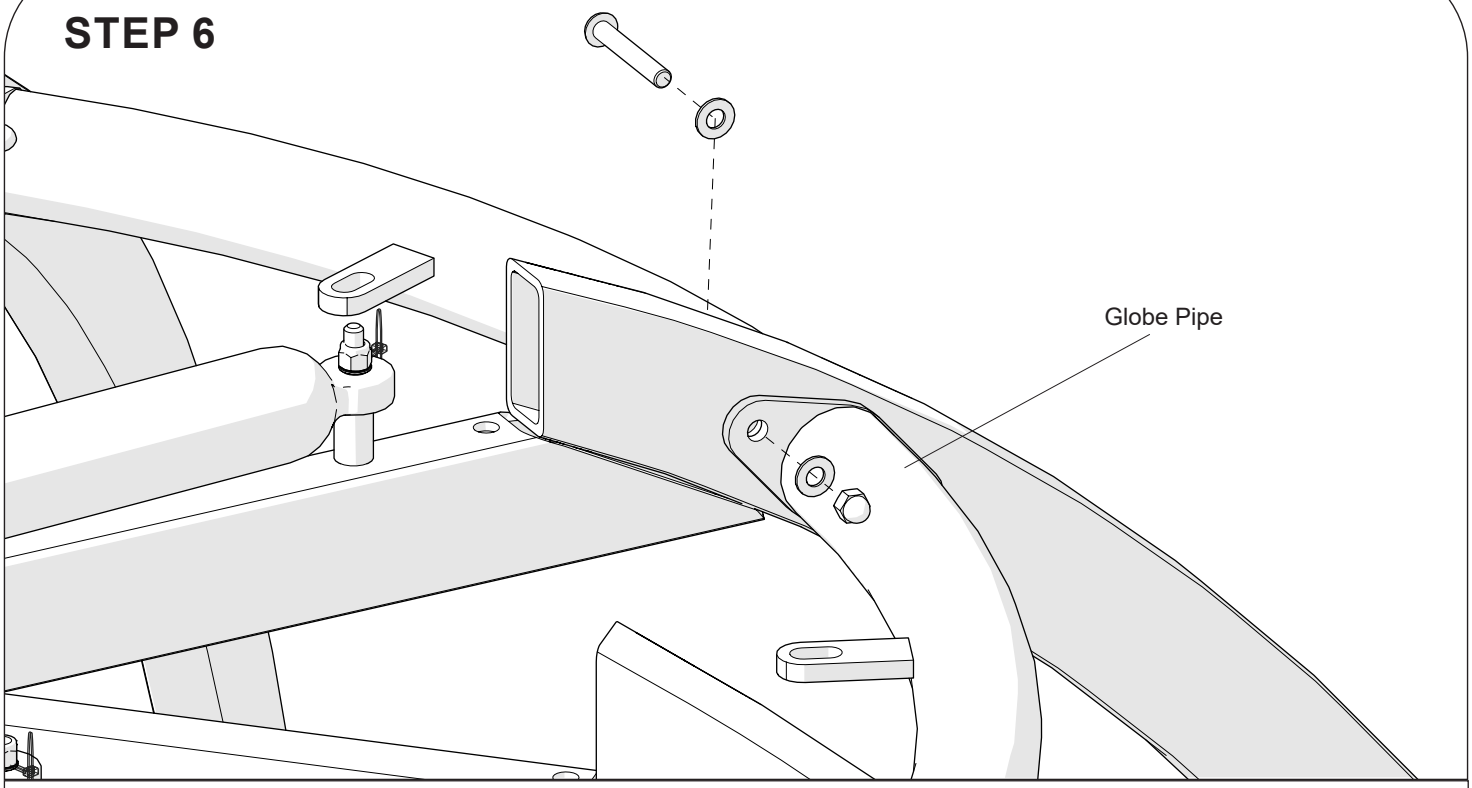
8x	Horizontal Bottom Support (249286)	16x	3/8" Standard Hex Nut (100327)
16x	3/8" Low Crown Hex Nut (100349)	64x	3/8" SAE Washer (100365)
16x	3/8 x 2 1/2" BHCS (100174)	16x	3/8 x 1 1/8" BHCS (100198)



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STEP 6

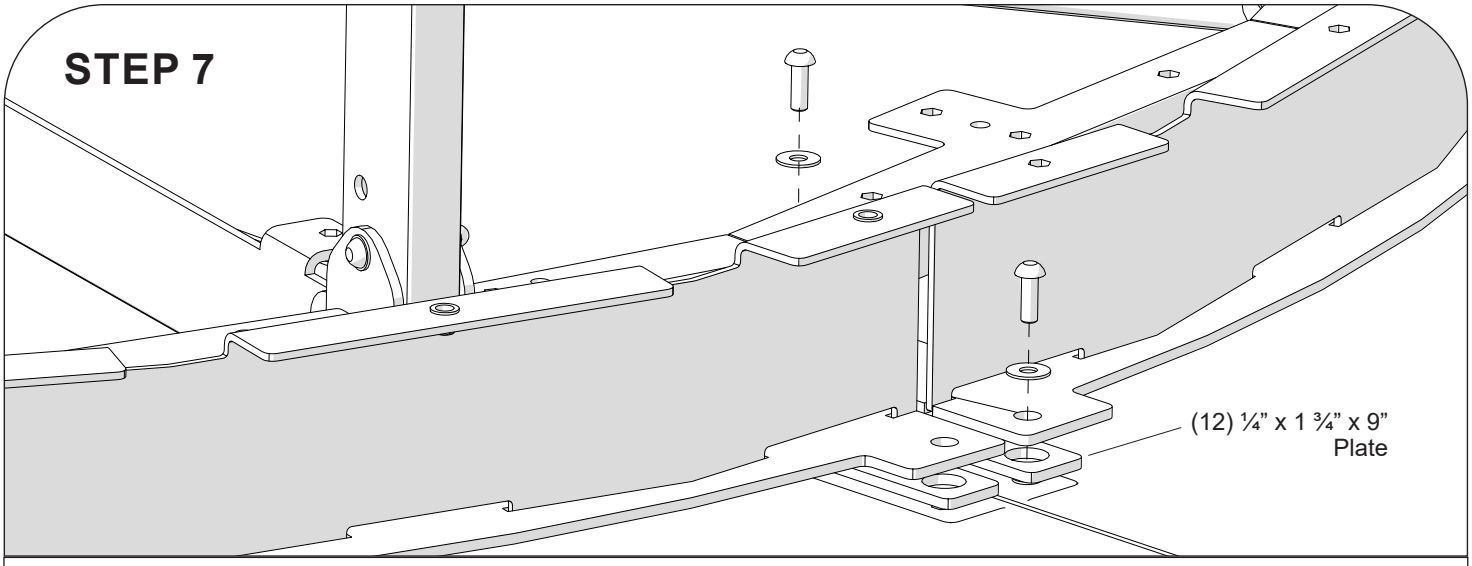


8x	Globe Pipe (212866)	16x	$^{3}/_{8}$ x 2 $^{1}/_{2}$" BHCS (100174)
16x	$^{3}/_{8}$" Low Crown Hex Nut (100349)	32x	$^{3}/_{8}$" SAE Washer (100365)

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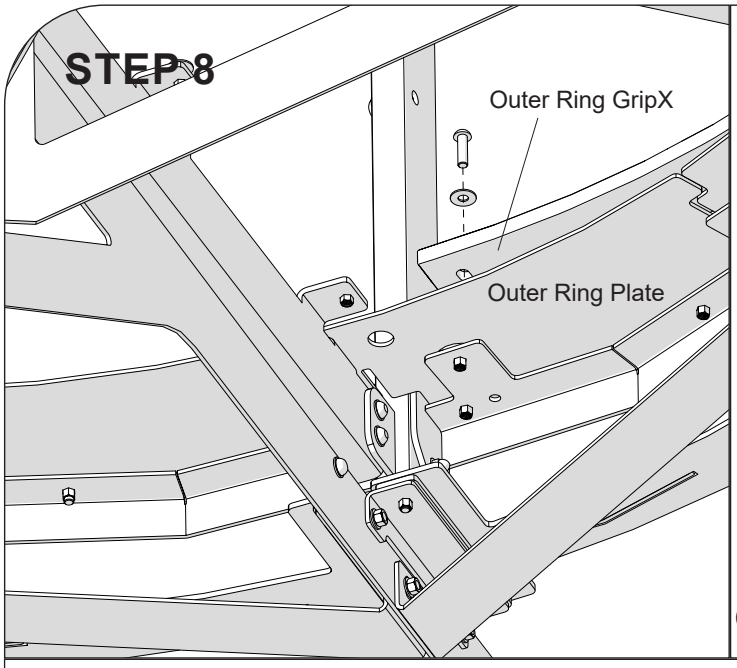
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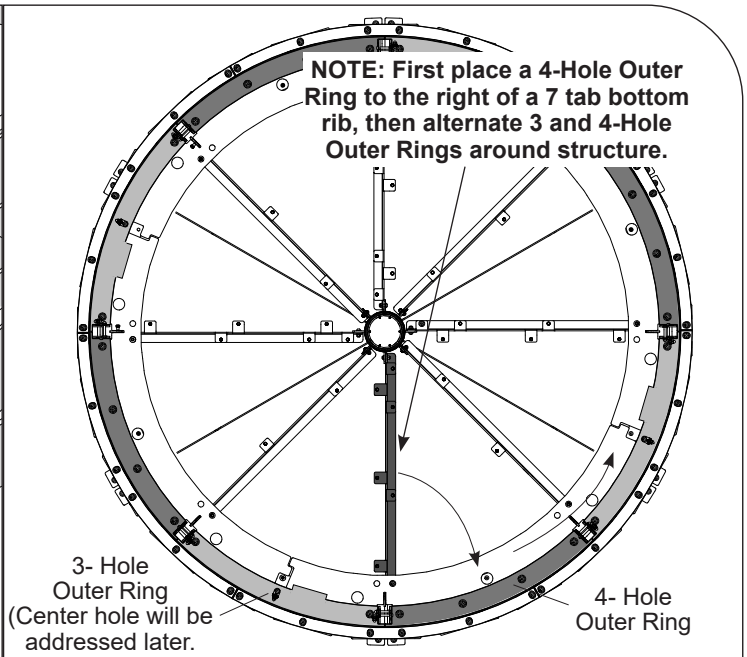
STEP 7



6x	Skirt (249289)	24x	$^{3}/_{8}$ x 1 $^{1}/_{8}$" BHCS (100198)
24x	$^{3}/_{8}$" Flat Washer (100362)	12x	¼" x 1 ¾" x 9" Plate (253792)

STEP 8





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

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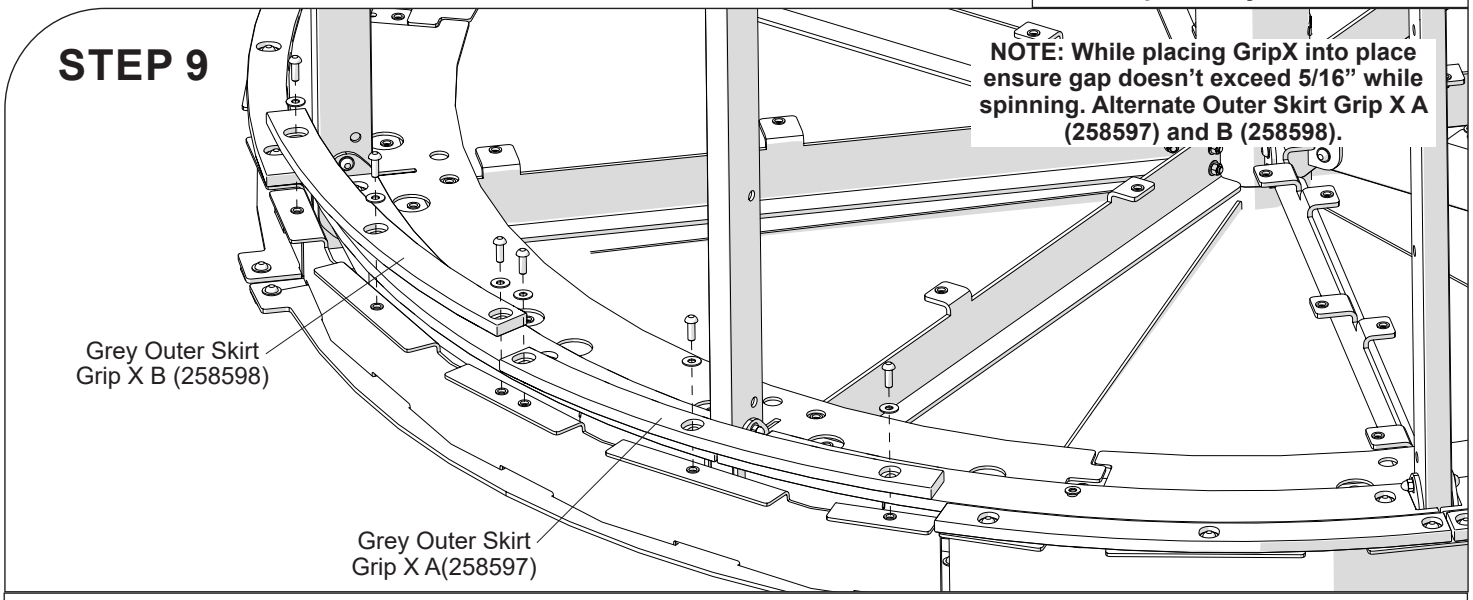
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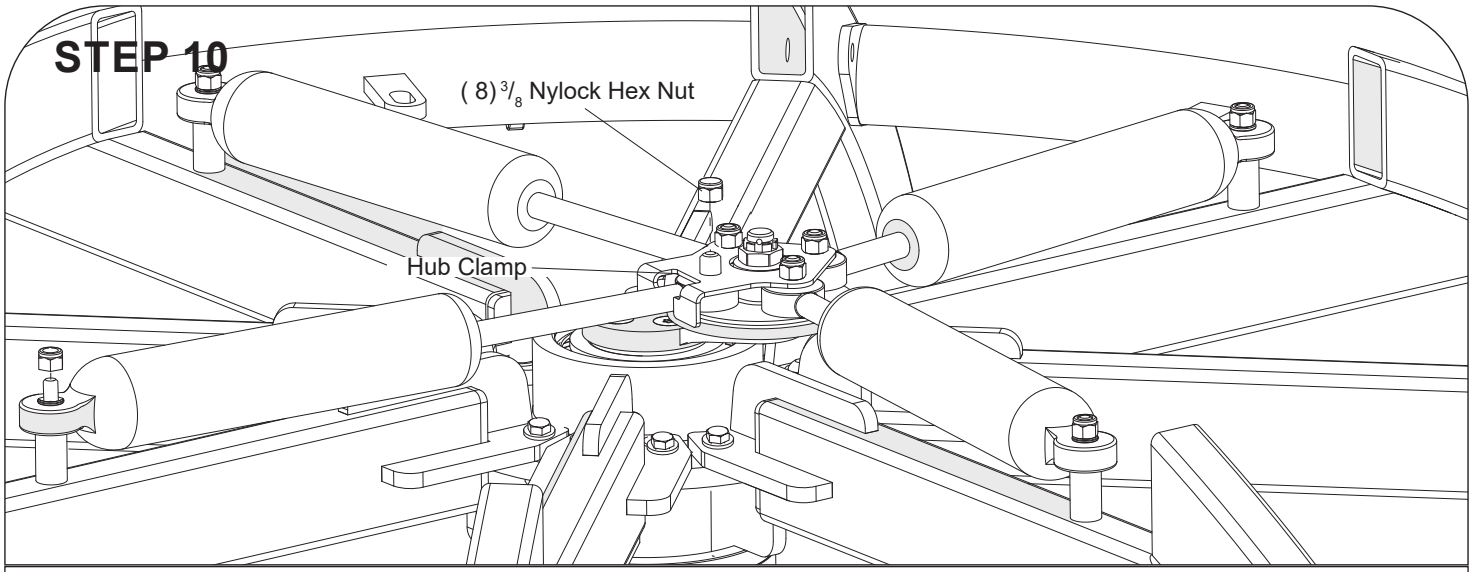
STEP 9

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).



6x	Grey Outer Skirt Grip X B (258598)	36x	3/8 x 1 1/8" BHCS (100198)
6x	Grey Outer Skirt Grip X A (258597)		
36x	3/8" Flat Washer (100362)		

STEP 10



4x	70 Series Shock (215884)	1x	Hub Clamp (222306)
8x	3/8 Nylock Hex Nut (136931)		

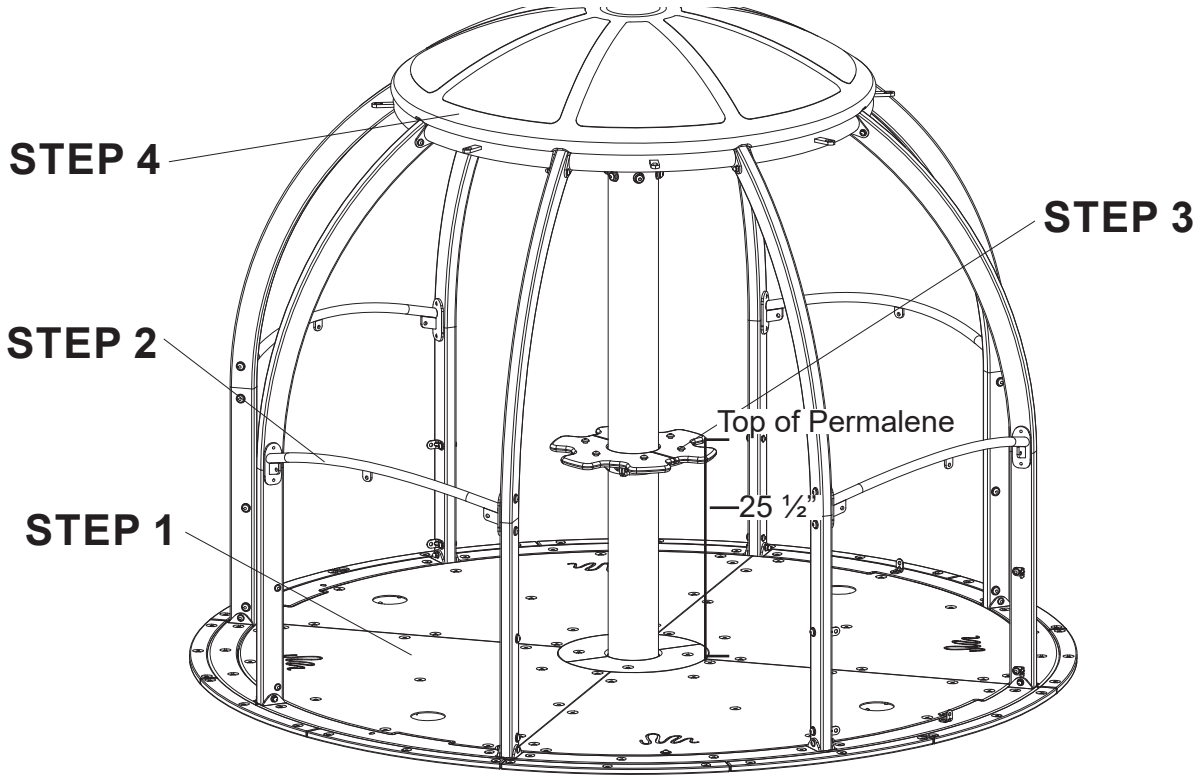
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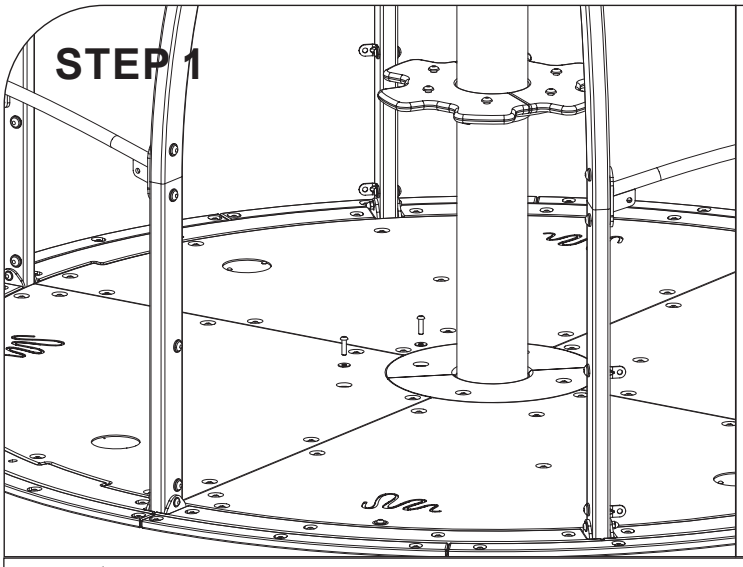
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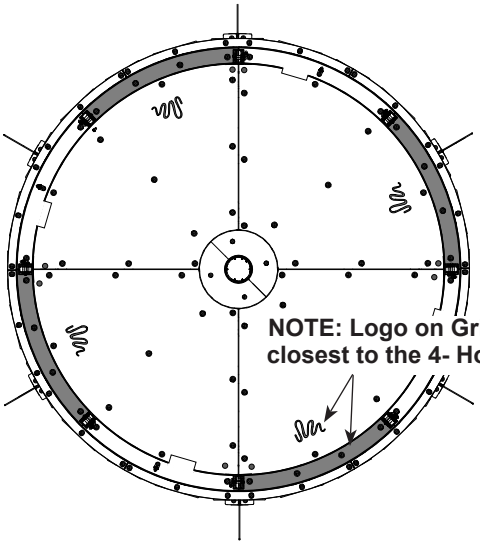
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INTERIOR I







56x	$^3/_8$ x 1 $^3/_8$" BHCS (113027)	4x	Black Outer Deck GripX (297889)
56x	$^3/_8$" Flat Washer (100362)	2x	Black Center Deck GripX (246435)

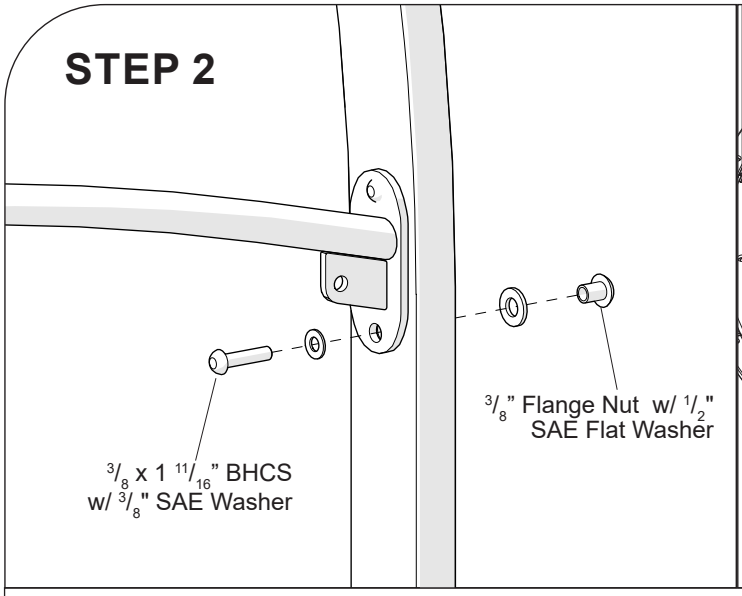
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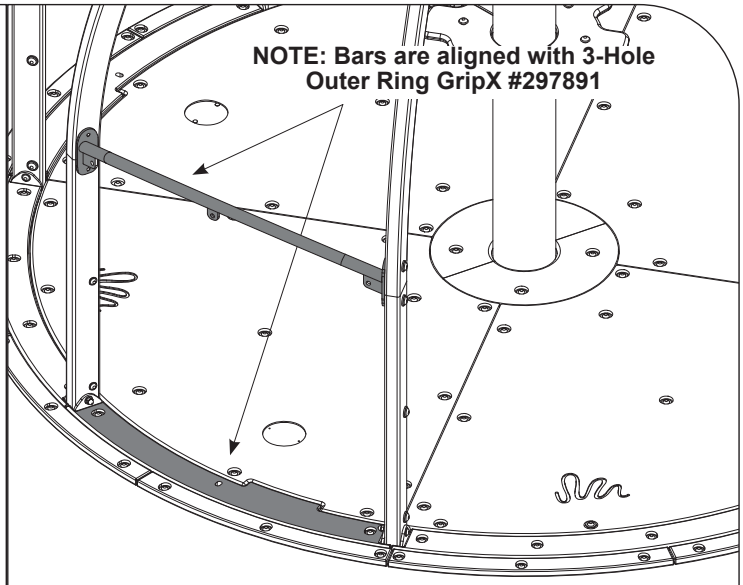
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STEP 2

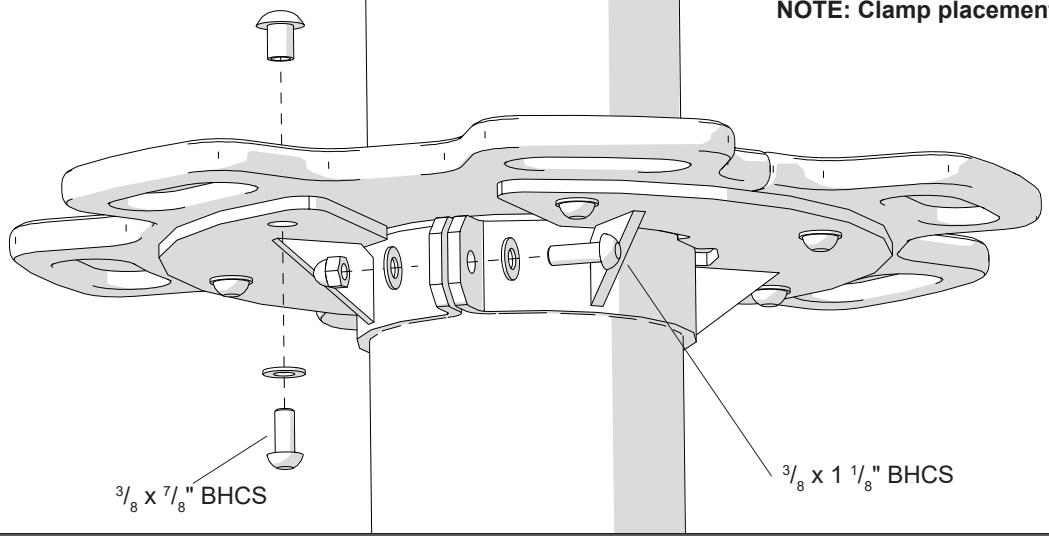




4x	Arch Support (249265)	16x	3/8" SAE Washer (100365)
16x	3/8 x 1 11/16" BHCS (123224)	16x	3/8" Flange Nut (100353)
16x	1/2" SAE Flat Washer (113550)		

STEP 3

NOTE: Clamp placement on Page 17

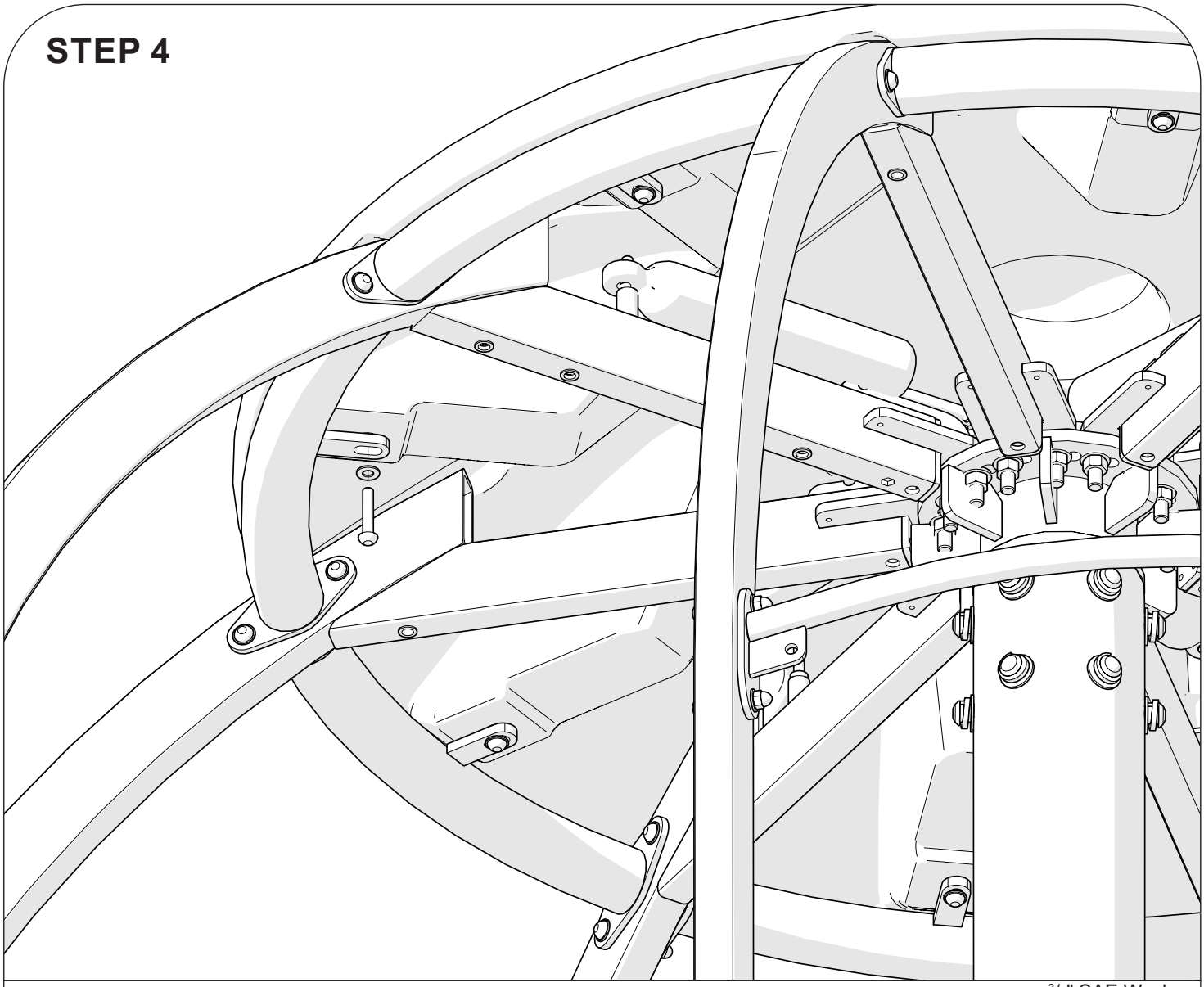


2x	Center Post Ring Weldment (249268)	10x	3/8" SAE Washer (100365)
2x	Center Ring Permalene (246424)	2x	3/8" Low Crown Hex Nut (100349)
2x	3/8 x1 1/8" BHCS (100198)	6x	3/8" Flange Nut (100353)
6x	3/8 x 7/8" BHCS (100196)		

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STEP 4



8x	$^{3}/_{8}$ x 2" BHCS (100173)	8x	$^{3}/_{8}$" SAE Washer (100365)
1x	Spinner Top (215474)		

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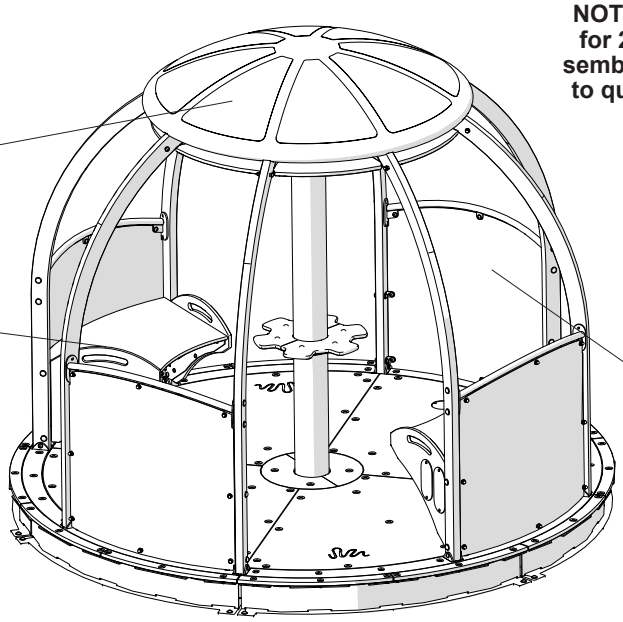
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INTERIOR II

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

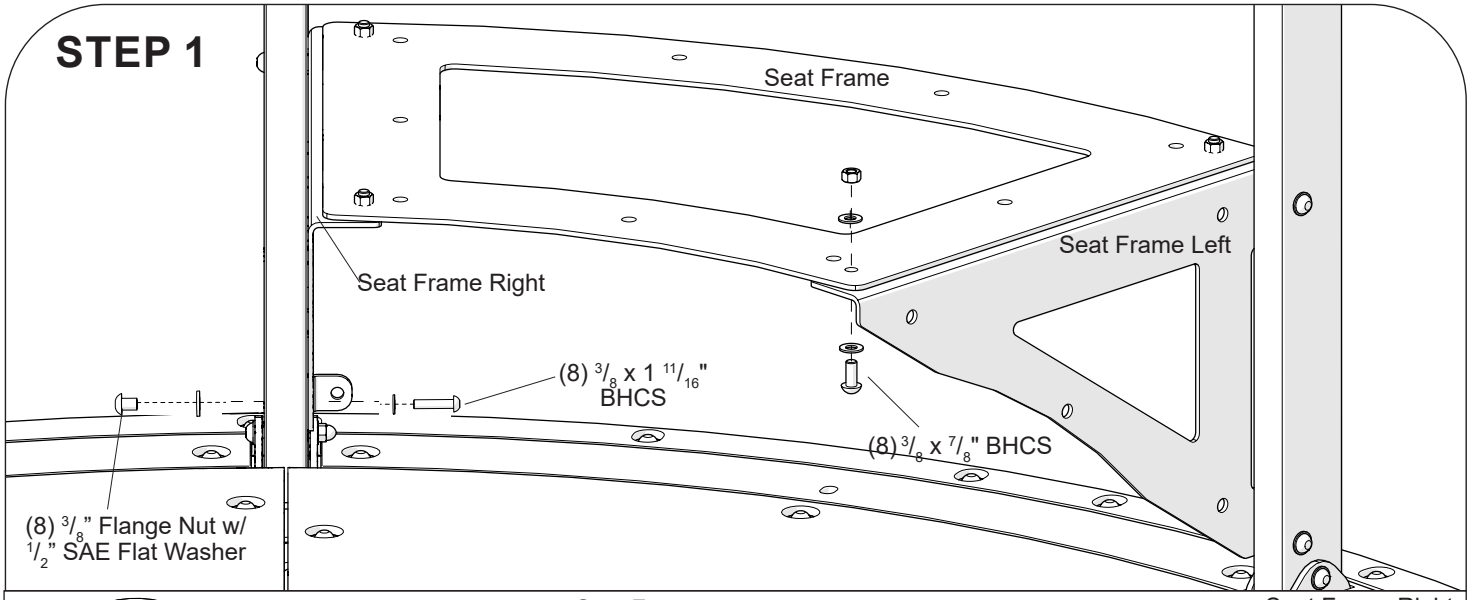
STEP 5

STEP 1, 2, 4



STEP 3

STEP 1



2x	Seat Frame (246444)	2x	Seat Frame Right (246442)
2x	Seat Frame Left (246443)	8x	3/8 x 7/8" BHCS (100196)
24x	3/8" SAE Washer (100365)	8x	3/8 x 1 11/16" BHCS (123224)
8x	1/2" SAE Flat Washer (113550)	8x	3/8" Standard Hex Nut (100327)
8x	3/8" Flange Nut (100353)		

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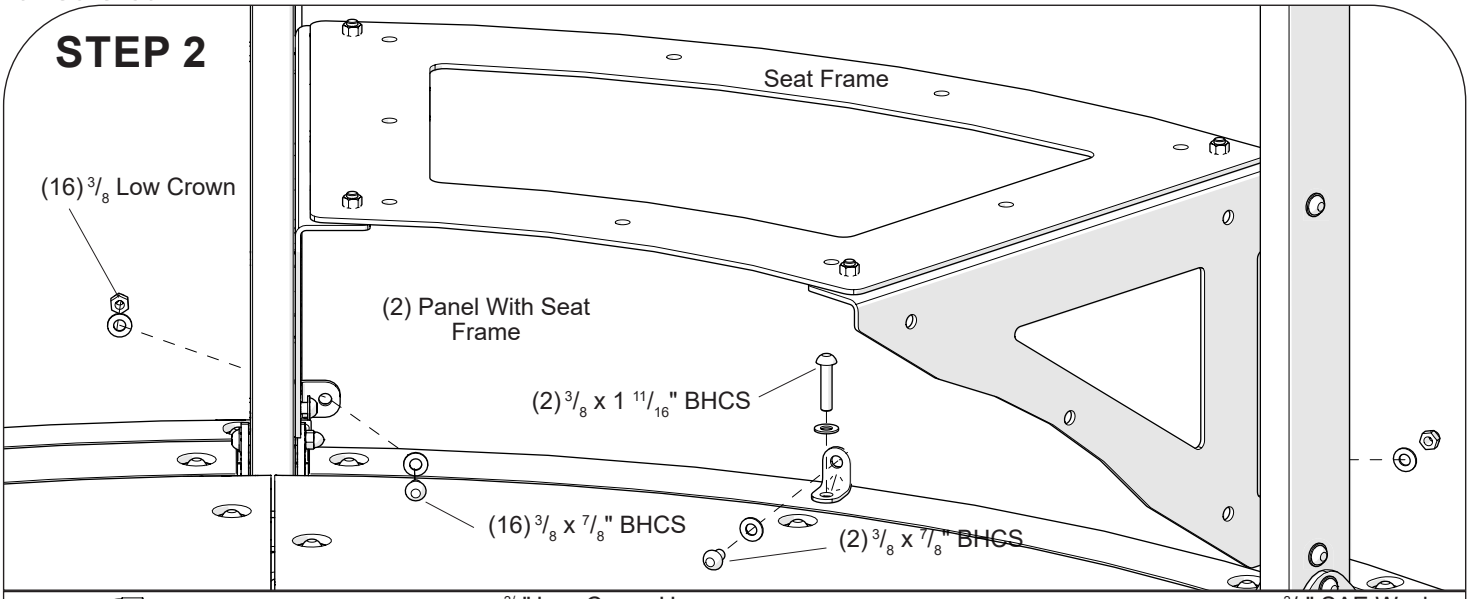
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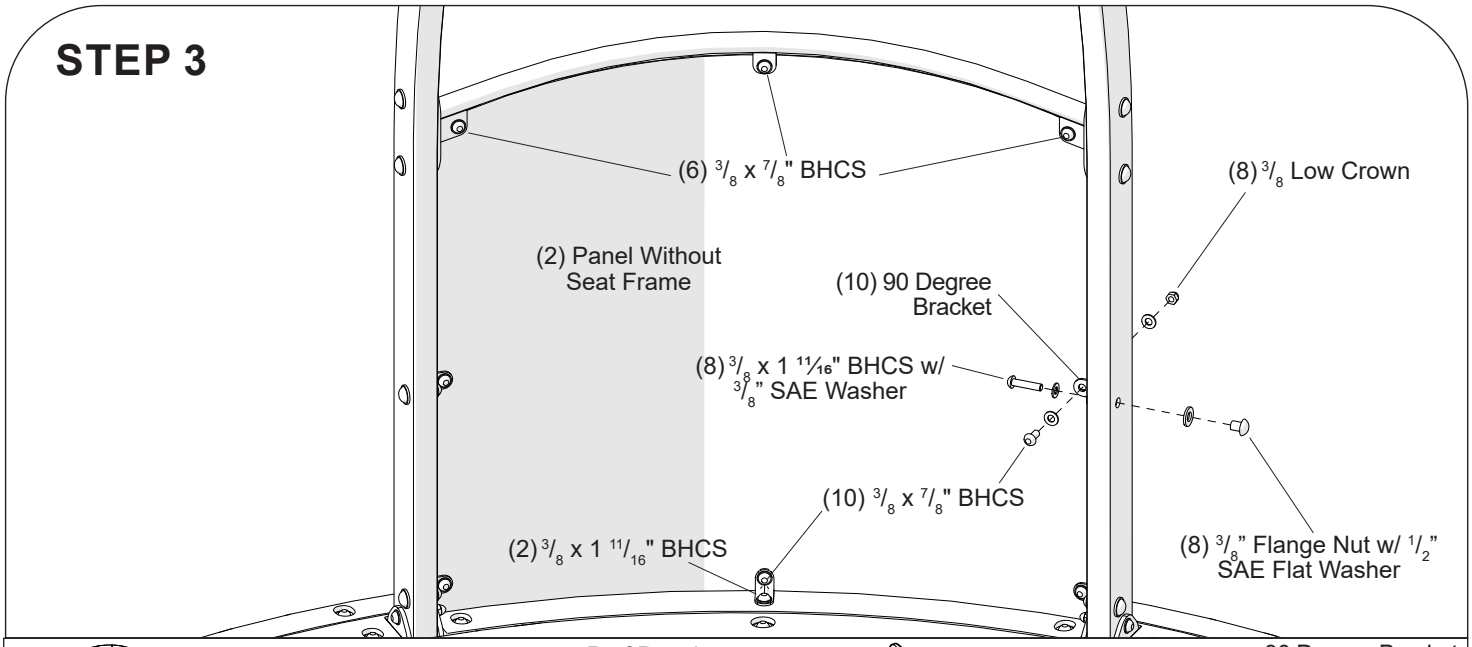
NOTE: Document shows quantities for 2 seat configuration. When assembling a 3 seat configuration refer to quantities in the bill of materials.

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)

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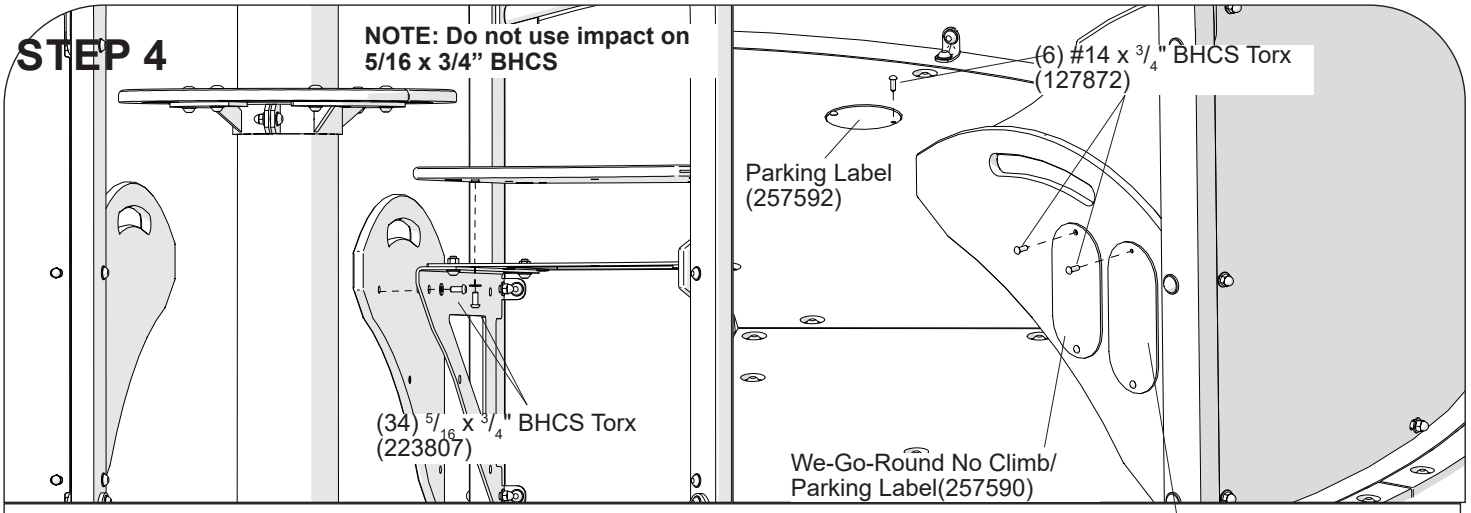
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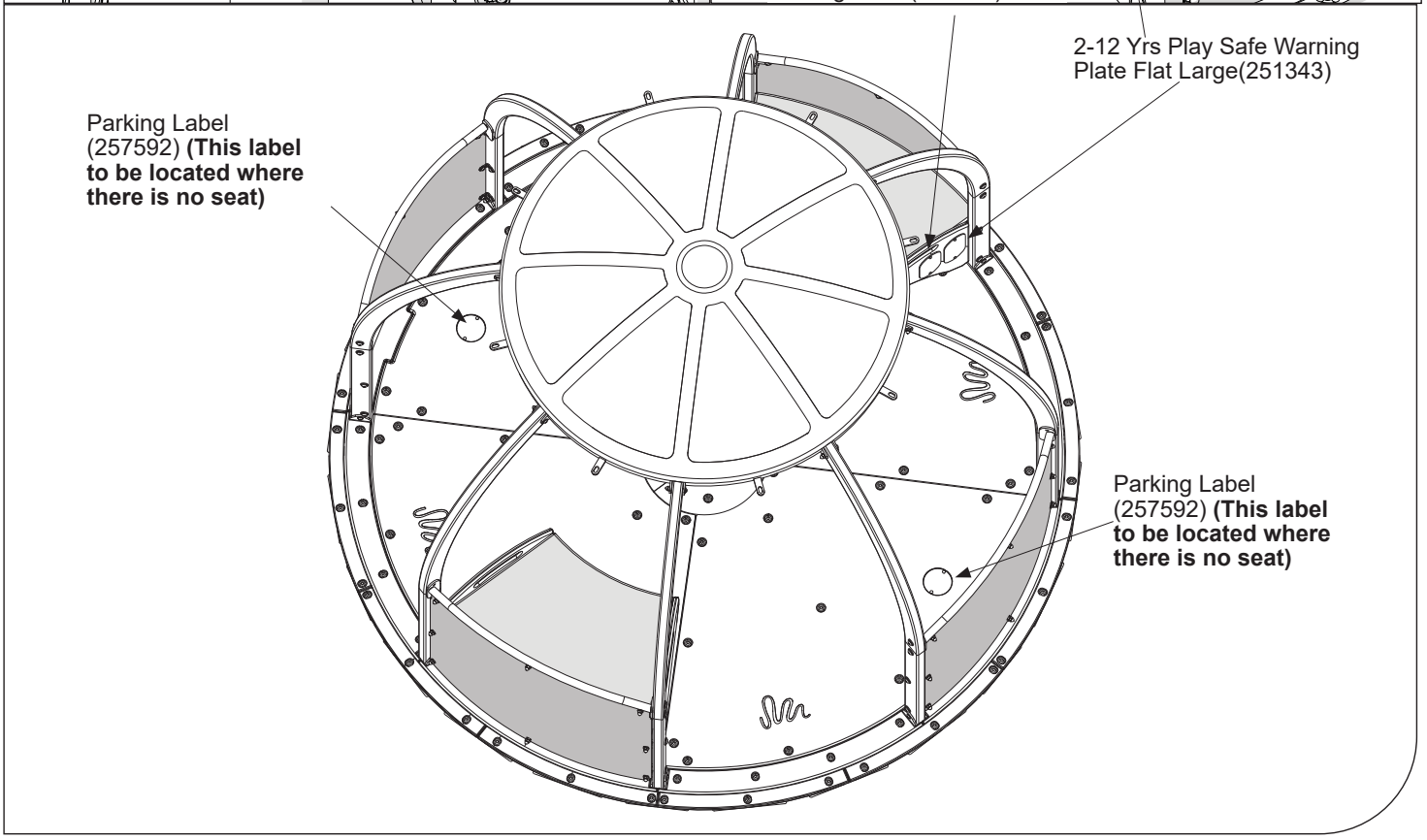
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STEP 4

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" BHCS Torx (223807)
34x	5/16" SAE Flat Washer (223956)	6x	#14 x 3/4" 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)		

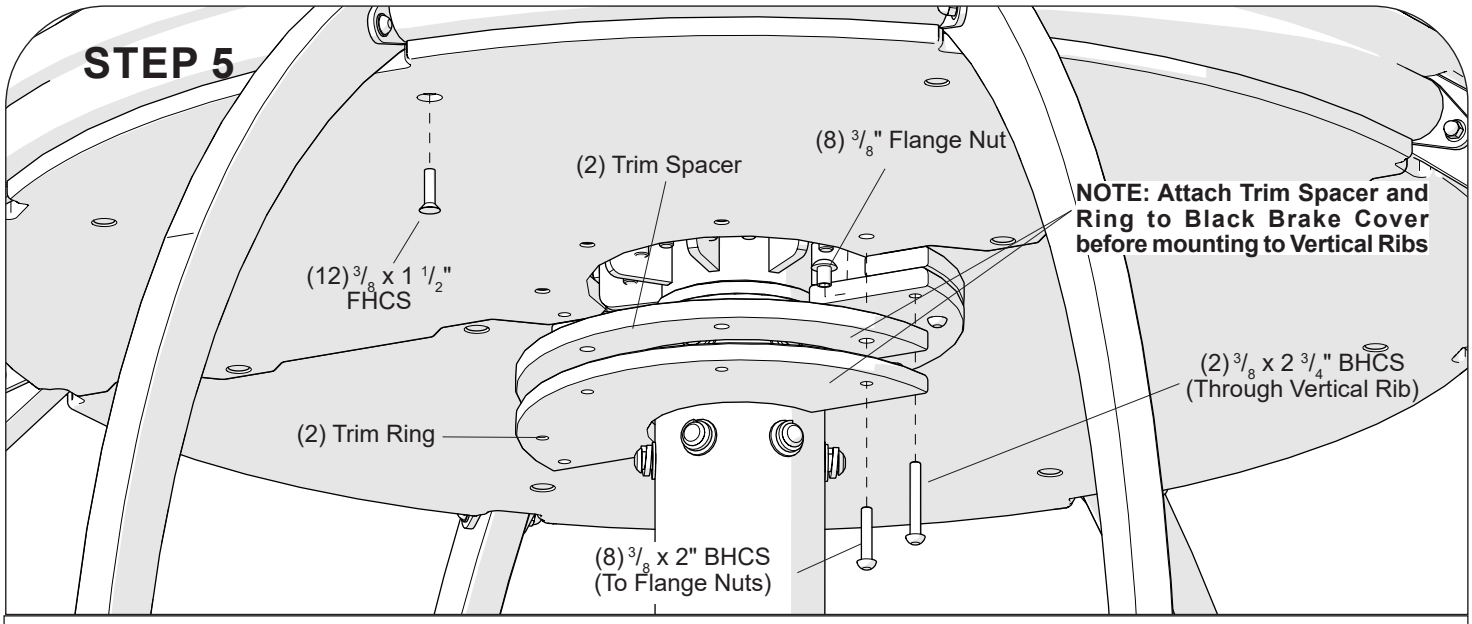
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STEP 5



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

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

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 3/8X2-1/2Isstpat	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 3/8X1-1/2Isst 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

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

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	**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 3/8X2-1/2Isstpat	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 3/8X1-1/2Isst W/Patch	12
250587	**Hdw Pkg We-Go-Round Perf Panel W/O Seat**	**1**
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**	**3**
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
258558	**Hdw Pkg We-Go-Round Labels**	**1**
127463	Bit Hex Tpp T27 (Torx)	1
127872	Bhcs Torx #14 X 3/4 Sst Thread Type Ab	6
251343	2-12 Yrs Play Safe Warning Plate	1
257590	No Climb/Parking Plate	1
257592	Parking Plate	1

DB = Direct Bury

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

Specifications

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 tam perproof 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”

ECO-0102464 Document 33192700 replaces 29912400. Added visuals to aid in leveling

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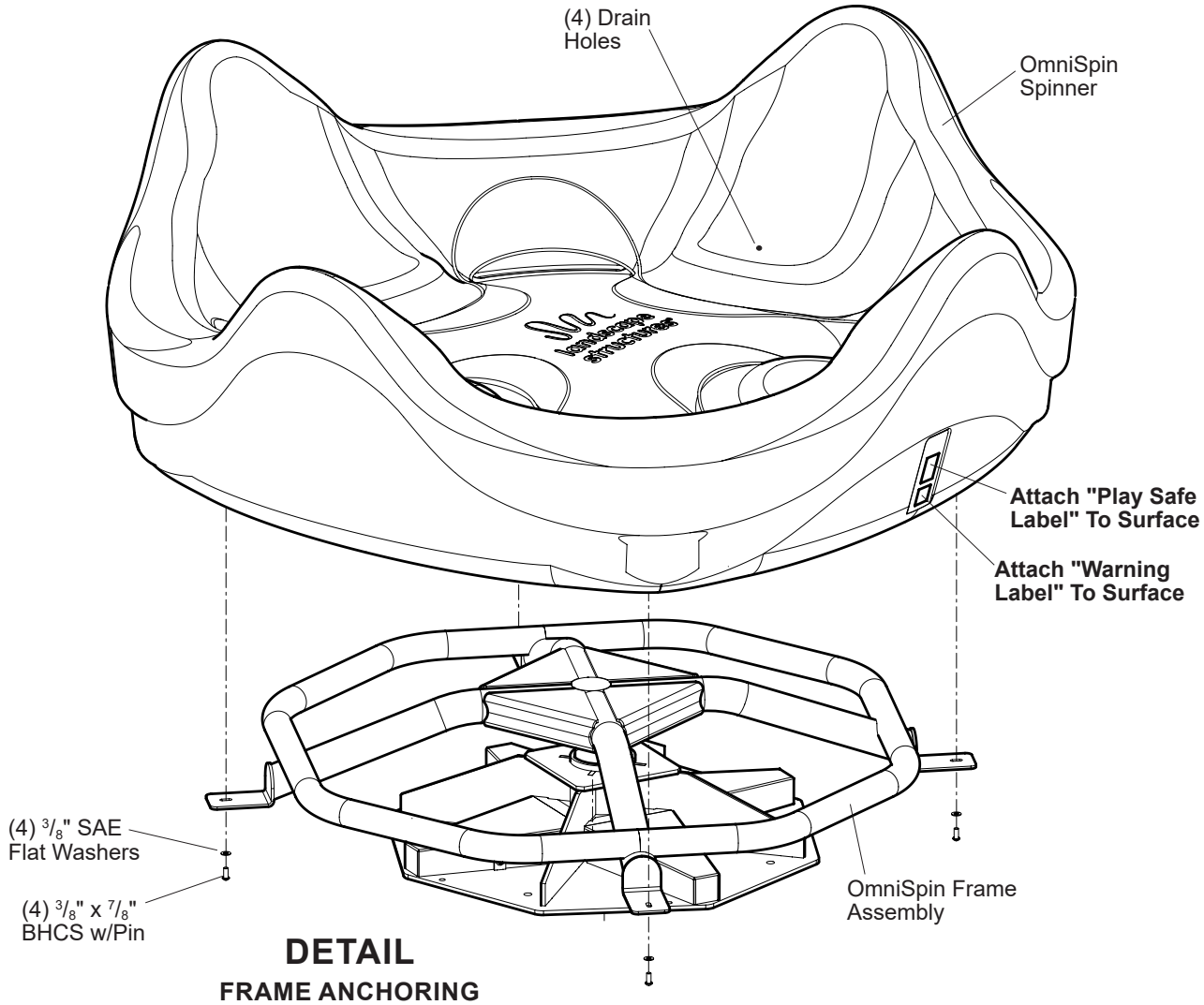
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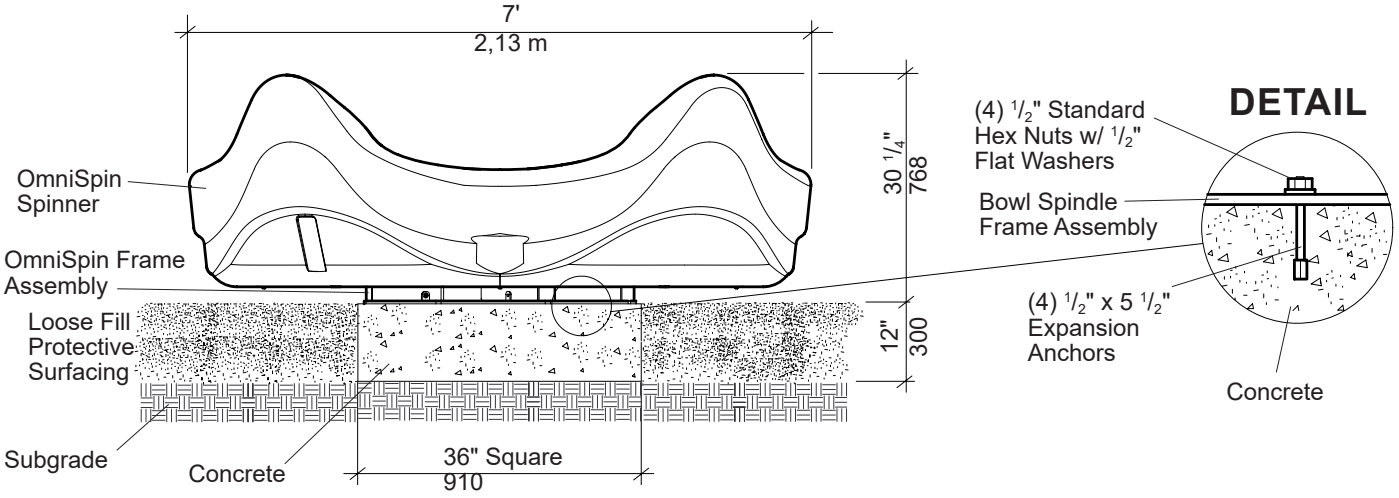
SAFETY NOTE

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.)

18384300



DETAIL
FRAME ANCHORING



DETAIL

Kids in Motion 173591 OmniSpin® Spinner

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Document #32404000

Kids in Motion 173591 OmniSpin® Spinner

Parts List

Part#	Description	Qty.
171060	OmniSpin Spinner, Specify Color	1
171061	OmniSpin Spinner Frame Assy., Metallic Silver	1
183892	**OmniSpin Spinner Hardware Package**	1
100196	$^3/_8$" x $^7/_8$" BHCS w/Pin, SST	4
100365	$^3/_8$" SAE Flat Washer, SST	4
156846	Play Safe Label, 2-12 Years	1
183064	Warning Label	1
175599	**4 Hole (SM) Hardware Package**	1
100271	$^1/_2$" x 5 $^1/_2$" Expansion Anchor w/Nut/Washer	4

SM = Surface Mount

Specifications

OmniSpin Spinner: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

OmniSpin Spinner Frame Assembly: **(Frame)** Weldment comprised of 2.375" O.D. RS20 (.095"-.105" wall) galvanized steel tubing, 2.875" O.D. RS40 (.160"-.170" wall) galvanized steel tubing, $^1/_4$" HR flat steel and 3 $^1/_2$" O.D. CF steel bar. **(Base)** Weldment comprised of $^3/_8$" HRPO sheet steel and $^3/_{16}$" HRPO sheet steel. **(Shock Covers)** 16 GA (.060") HRPO sheet steel. **(Crank Arms & Pins)** Fabricated from stainless steel. **(Shocks)** Gas shocks with fixed bearings. Finish: ProShield®, metallic silver in color.

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

Installation Time: **(Direct Bury)** Concrete Footing - 2 People approx. 3 hours
Assembly - 3 People 1 hour

Concrete: **(Direct Bury)** 9 cu. ft.

Weight: 499 lbs.

Actual Size: 7' x 7' (2,13 m x 2,13 m)

Area Required: 19' (5,79 m) Diameter ASTM

Fall Height: 18" (460 mm)

Installation Instructions

1) **(Direct Bury)** Build and pour concrete footing. Refer to Frame Anchoring Details. Allow concrete footing to cure for a minimum of 72 hours before continuing.
2) With OmniSpin Spinner frame in position, drill through 4 outside holes in OmniSpin Spinner frame 5 $^1/_2$" deep into concrete slab, using $^1/_2$" masonry bit and hammer drill. Refer to the Frame Anchoring Detail.
3) Tap $^1/_2$" x 5 $^1/_2$" expansion anchors into drilled holes and secure using $^1/_2$" standard hex nuts with $^1/_2$" flat washers. Refer to the Frame Anchoring Details.
4) Attach OmniSpin Spinner to OmniSpin Spinner frame, using $^3/_8$" x $^7/_8$" BHCS w/pin and $^3/_8$" SAE flat washers.
5) Apply labels as shown.
6) Install protective surfacing before users are allowed to play on the component.

Specifications are subject to change without notice.

Eco #0102376 Document #32404000 replaces #18384300.Updated spinner frame to metallic silver color.

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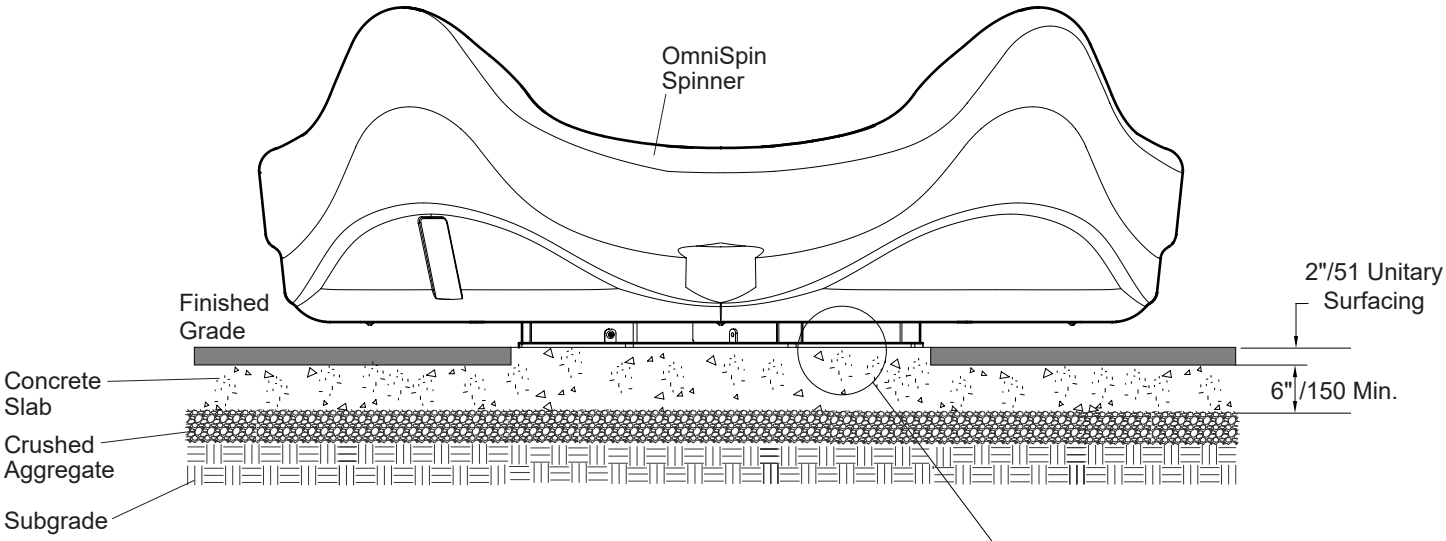
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SAFETY NOTE

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.)

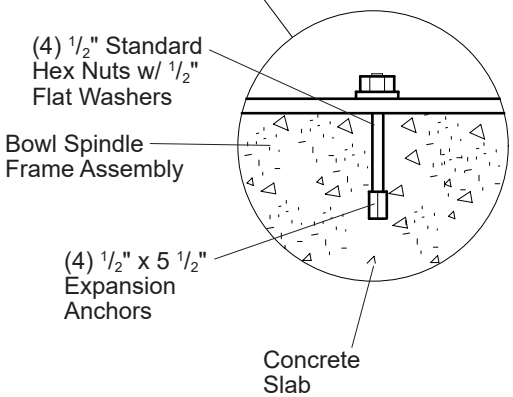
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Unitary Surfacing



NOTE: When using unitary surfacing on crushed aggregate, refer to Frame Anchoring Detail for loose fill protective surfacing.

DETAIL



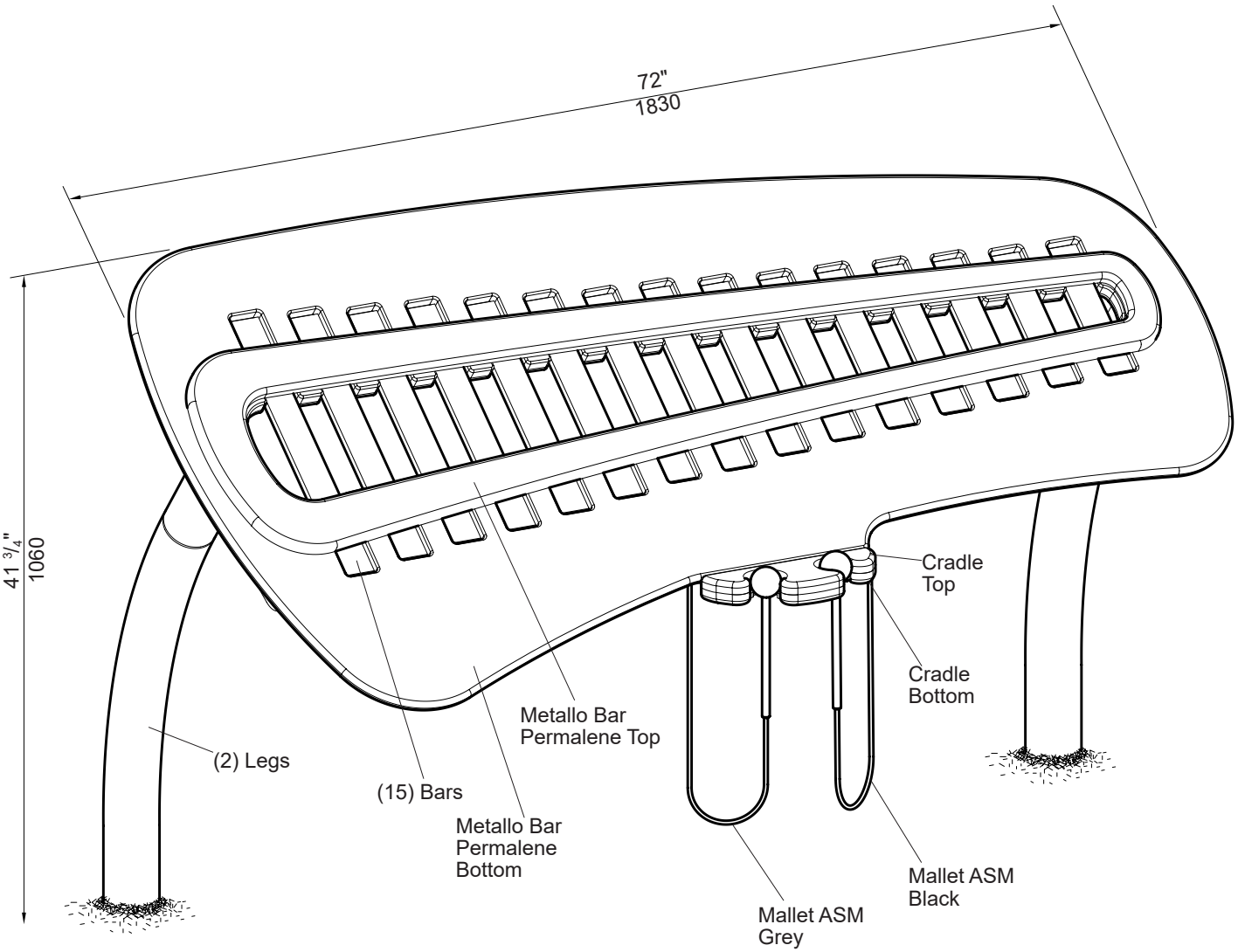
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Sensory Play

214438 Animato™ Metallophone

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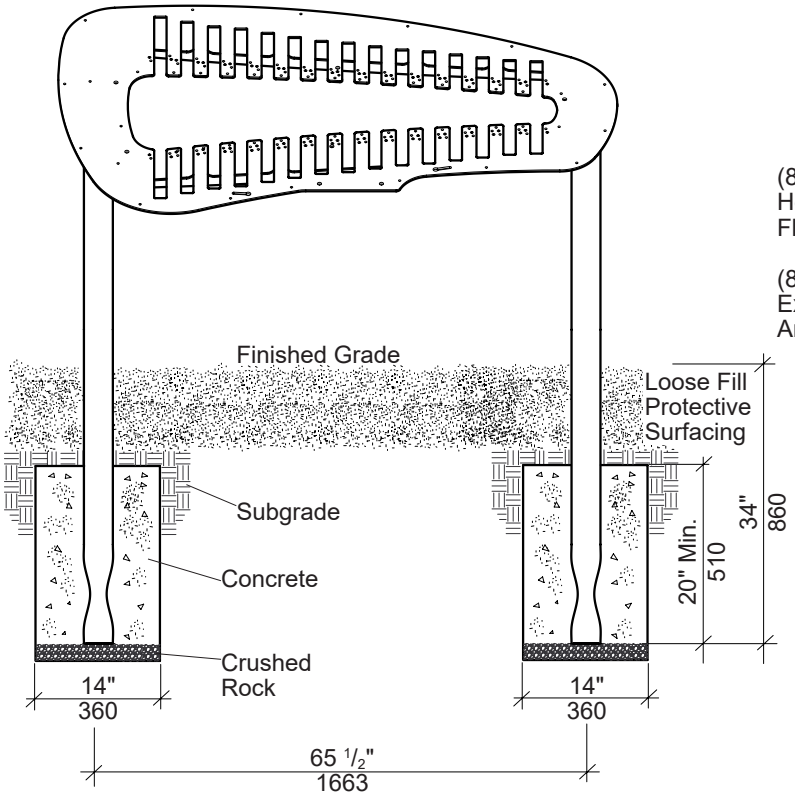
Document #29715600

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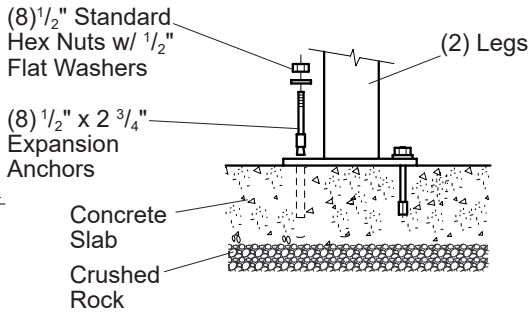
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DETAIL
DIRECT BURY



DETAIL
SURFACE MOUNT



DETAIL
PROPPED IN FINAL POSITION

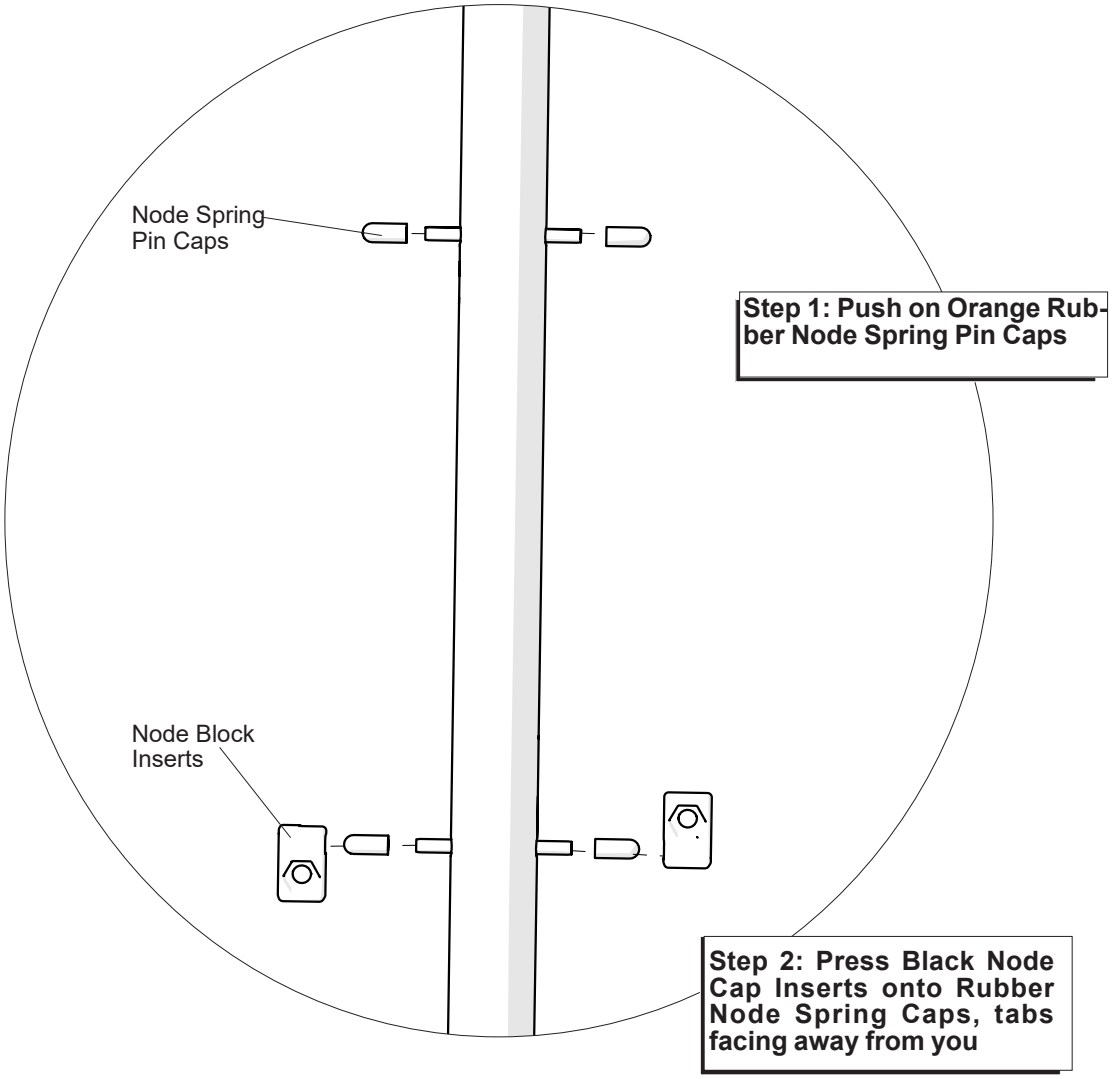


NOTE: Picture shown is an example of how to prop the Animato Metallophone assembly in final position, using 2 x 4 boards and wooden stakes, prior to pouring concrete footings.

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DETAIL
PRE-ASSEMBLE TUBE MOUNTS



Once pre-assembled, the tubes fit their corresponding size locations with the plastic pin caps fitting in each oval hole. This will self-align the node block inserts for the bolt connections.

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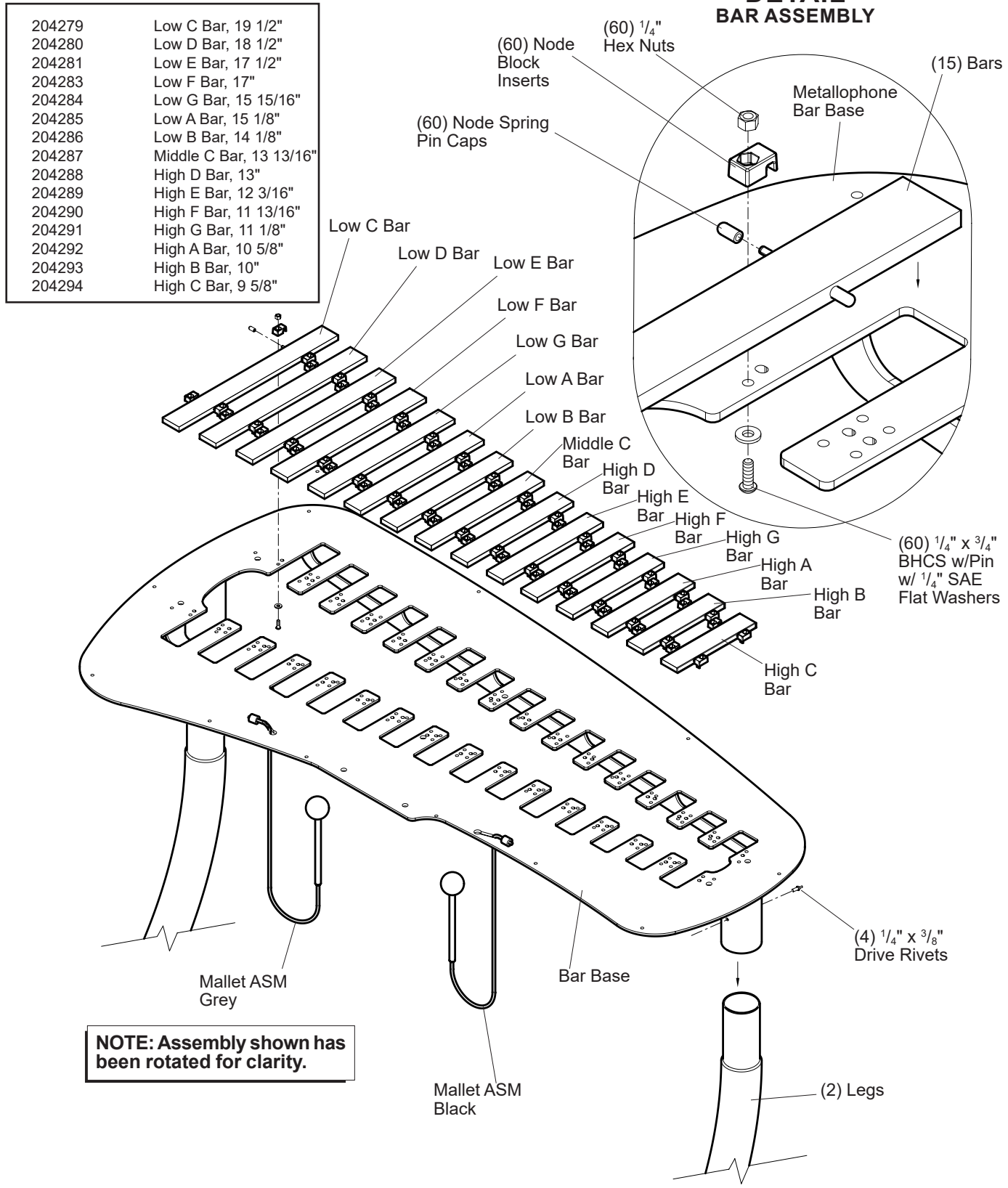
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204279	Low C Bar, 19 1/2"
204280	Low D Bar, 18 1/2"
204281	Low E Bar, 17 1/2"
204283	Low F Bar, 17"
204284	Low G Bar, 15 15/16"
204285	Low A Bar, 15 1/8"
204286	Low B Bar, 14 1/8"
204287	Middle C Bar, 13 13/16"
204288	High D Bar, 13"
204289	High E Bar, 12 3/16"
204290	High F Bar, 11 13/16"
204291	High G Bar, 11 1/8"
204292	High A Bar, 10 5/8"
204293	High B Bar, 10"
204294	High C Bar, 9 5/8"

DETAIL
BAR ASSEMBLY



NOTE: Assembly shown has been rotated for clarity.

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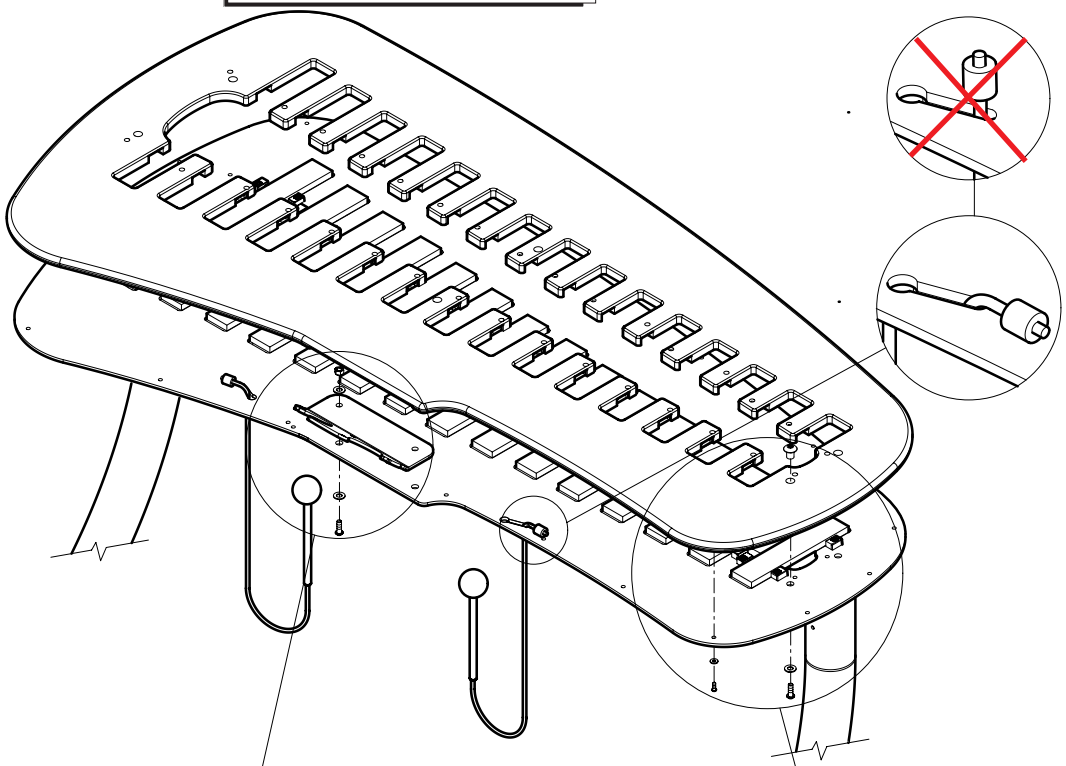
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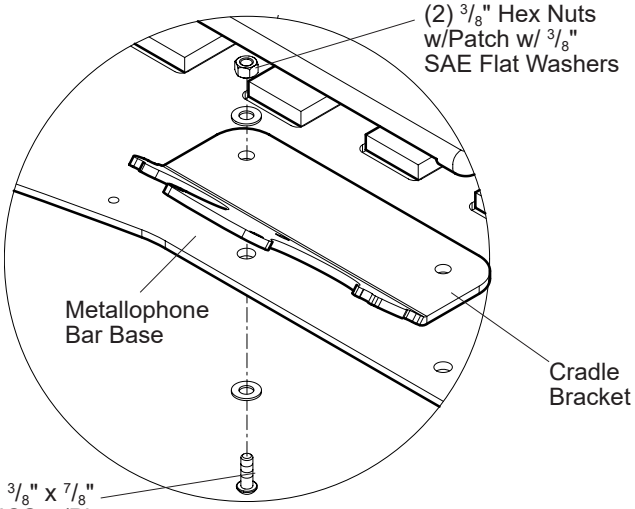
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NOTE: Assembly shown has been rotated for clarity.

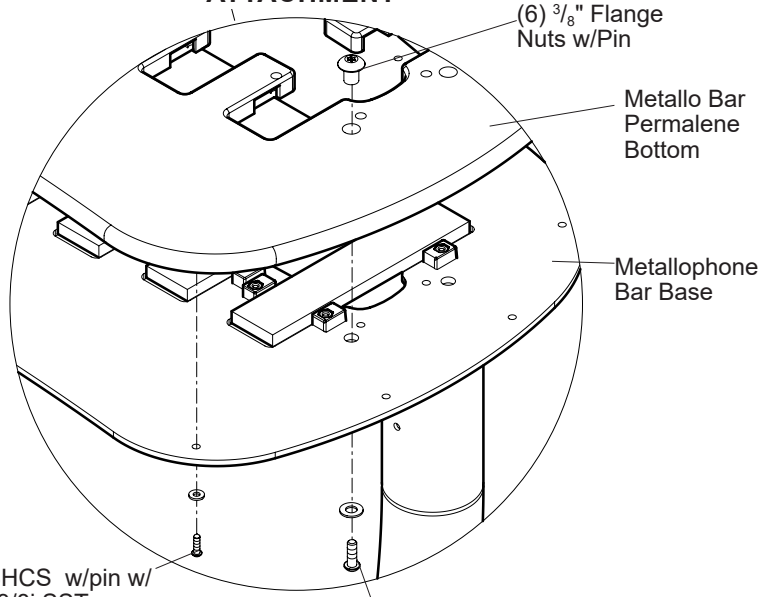
NOTE: Mallet aluminum ferrule must lay flat when attaching Permalene bottom.



DETAIL
CRADLE BRACKET ATTACHMENT

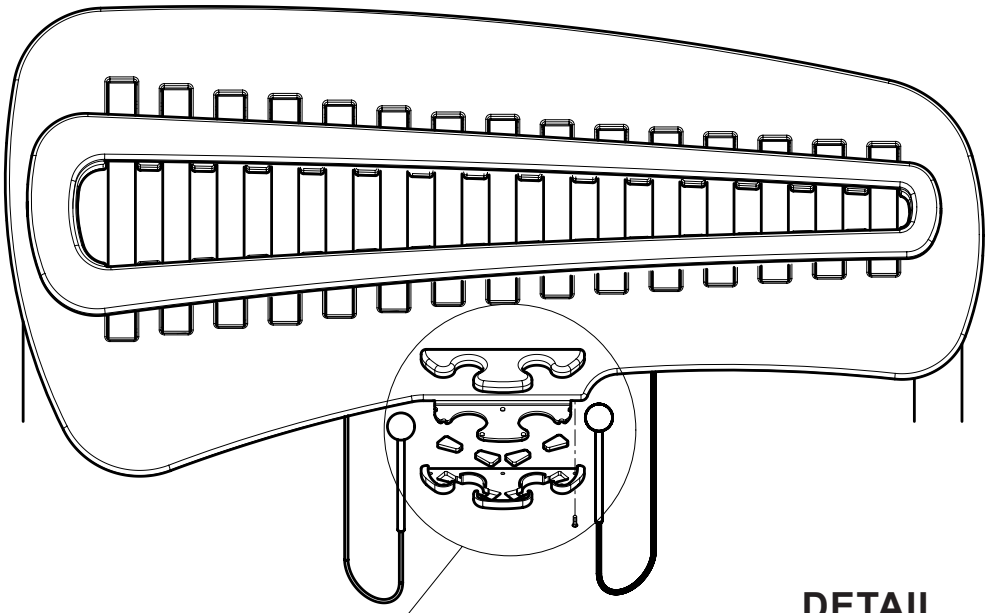


DETAIL
PERMALENE BOTTOM ATTACHMENT

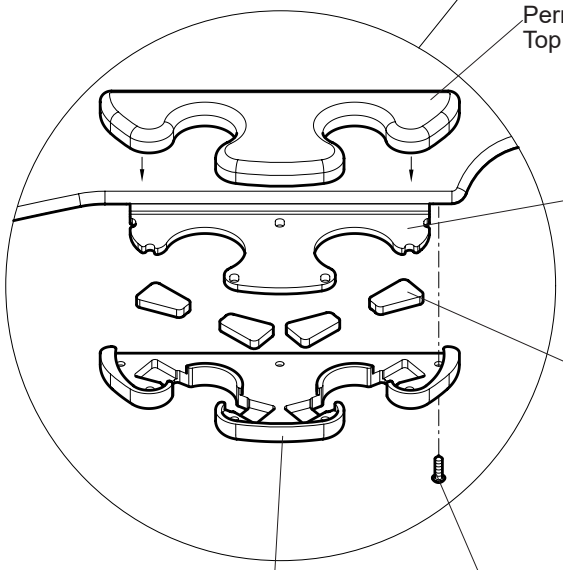


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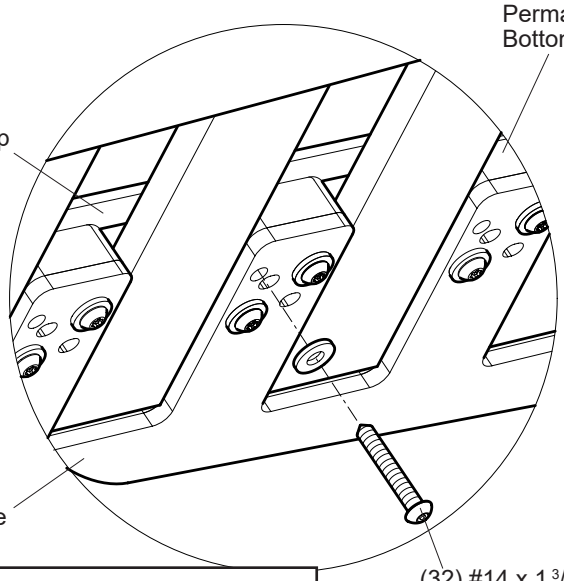
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DETAIL
MALLET CRADLE ASSEMBLY



DETAIL
METALLO BAR PERMALENE TOP ATTACHMENT
(BOTTOM VIEW)



IMPORTANT! Do not use an impact wrench to tighten BHCS Torx bolts. Hand tighten only.

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Sensory Play 214438 Animato™ Metallophone

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Parts List

Part#	Description	Qty.
297166	Metallophone Bar Base, Specify Color	1
297158	Metallo Bar Permalene Bottom, Specify Color	1
211074	Metallo Bar Permalene Top, Specify Color	1
213638	Metallophone Leg, (DB), Specify Color	2
211033	Metallophone Leg, (2" SM), Specify Color	2
248098	Metallophone Leg, (12" SM), Specify Color	2
215141	Mallet Cradle Bracket, Specify Color	1
268144	Mallet Cradle Permalene Top, Specify Color	1
268148	Mallet Cradle Permalene Bottom, Specify Color	1
218898	**Animato Chimes Kit**	1
204279	Low C Bar, 19 1/2"	1
204280	Low D Bar, 18 1/2"	1
204281	Low E Bar, 17 1/2"	1
204283	Low F Bar, 17"	1
204284	Low G Bar, 15 15/16"	1
204285	Low A Bar, 15 1/8"	1
204286	Low B Bar, 14 1/8"	1
204287	Middle C Bar, 13 13/16"	1
204288	High D Bar, 13"	1
204289	High E Bar, 12 3/16"	1
204290	High F Bar, 11 13/16"	1
204291	High G Bar, 11 1/8"	1
204292	High A Bar, 10 5/8"	1
204293	High B Bar, 10"	1
204294	High C Bar, 9 5/8"	1
220677	Mallet Assembly, Black	1
220676	Mallet Assembly, Grey	1
297159	**Animato™/Vivo™ Chimes Hardware Package**	1
211443	Node Block w/Insert	60
162374	1/4" x 3/4" BHCS w/Pin, SST	60
100364	1/4" SAE Flat Washer, SST	60
212291	Node Spring Pin Cap	60
228545	Music Belt Wedge	4
223807	BHCS 6LP 5/16i -18 X 3/4i SST	17
216762	#14 x 1 3/4" BHCS (Torx), SST	34
100365	3/8" SAE Flat Washer, SST	27
100196	3/8" x 7/8" BHCS (Torx), SST	8
100353	3/8" Flange Nut w/Pin, SST	6
100321	3/8" Hex Patch Nut, SST	2
216777	1/4" Hex Nut, SST	60
127463	T-27 TPP Hex Bit (Torx), SST	1
100611	1/4" x 3/8" Drive Rivet, AL/SST	4
133368	1/4" Nylon Washers	34
264971	5/16" x 1" BHCS w/Pin, SST	7
121348	**4-Hole Surface Mount Hardware Package**	2
100266	1/2" x 2 3/4" Standard Hex Nut, SST	8
100322	1/2" Standard Hex Nut, SST	8
100363	1/2" Flat Washer, SST	8

DB = Direct Bury
SM = Surface Mount

Specifications

Bar Base: Weldment comprised of 3.500" (88,9 mm) O.D. RS20 (.125")(3,17 mm) wall galvanized steel tubing, and 1/4" (6,35 mm) thick HRPO steel sheet. Finish: ProShield®, color specified.

Bar Top & Bottom: Permalene®, color specified.

Leg: Weldment comprised of 3.500" (88,9 mm) O.D. RS20 (.125")(3,17 mm) wall galvanized steel tubing. Finish: ProShield®, color specified.

Bars: Made from 1/2" (12,7 mm) thick x 2" (50,8 mm) wide aluminum.

Cradle Bracket: Made from 1/4" (6,35 mm) thick HRPO steel sheet. Finish: ProShield®, color specified.

Cradle Top & Bottom: Permalene®, color specified.

Mallet: Comprised of 2" (50,8 mm) diameter grey & black polyurethane, 1/2" (12,7 mm) diameter aluminum handle and 3/16" (4,74 mm) diameter stainless steel cable with nylon coating.

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

Installation Time: **DB** - Approx. 8 man hours
SM - Approx. 6 man hours
Concrete Req.: **DB** - Approx. 3.56 cu. ft.
Weight: **DB** - 251 lbs.
SM - 238 lbs.

Installation Instructions

1) **(Direct Bury)** Dig footings as shown.

2) Insert metallophone legs into bar base tubes. Measurement from center to center of each leg should be 65 1/2" (1663 mm). With legs in correct position, drill through holes in bar base tubes and into metallophone legs with a 1/4" or "F" (only) drill bit. Insert 1/4" x 3/8" drive rivets into holes and hammer rivet pins in until flush with head. Refer to sheet 2.

3) **(Direct Bury)** Place metallophone legs into footing holes. With metallophone legs propped in plumb and final position, pour concrete footings. Allow concrete footings to cure for a minimum of 24 hours before completing assembly. **NOTE:** *See back of sheet 1 for an example of Animato Metallophone assembly propped in final position.*

   (Surface Mount) With metallophone legs in plumb position, drill 1/2" x 3" deep holes through metallophone leg plates using hammer drill and 1/2" masonry bit. Tap expansion anchors into drilled holes. Fasten metallophone leg plates to expansion anchors using 1/2" standard hex nuts with 1/2" flat washers.

4) Place node spring caps on each end of bar pins. Attach bars and mallets to bar base as shown. Refer to the Bar Assembly Detail.

5) Attach cradle bracket to bar base. Refer to the Cradle Bracket Attachment Detail.

6) Attach metallo bar Permalene bottom to bar base. Refer to the Permalene® Bottom Attachment Detail.

7) Attach mallet cradles to cradle bracket, as shown. Refer to the Mallet Cradle Assembly Detail.

8) Attach metallo bar Permalene top to metallophone bar base, as shown. Refer to the Metallo Bar Permalene Top Attachment Detail.

Specifications are subject to change without notice.

ECO # 0102136 Document 29715600 replaces 27263700. Updated assembly and hardware

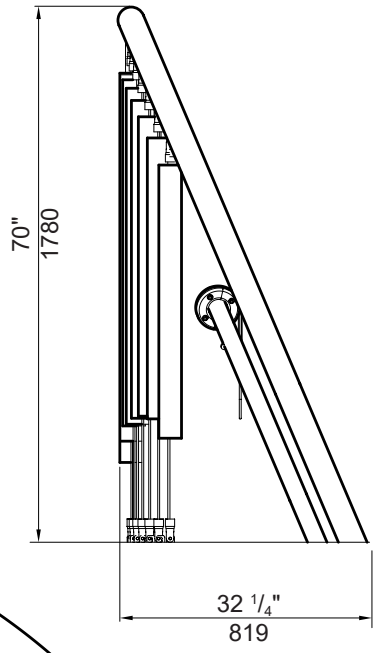
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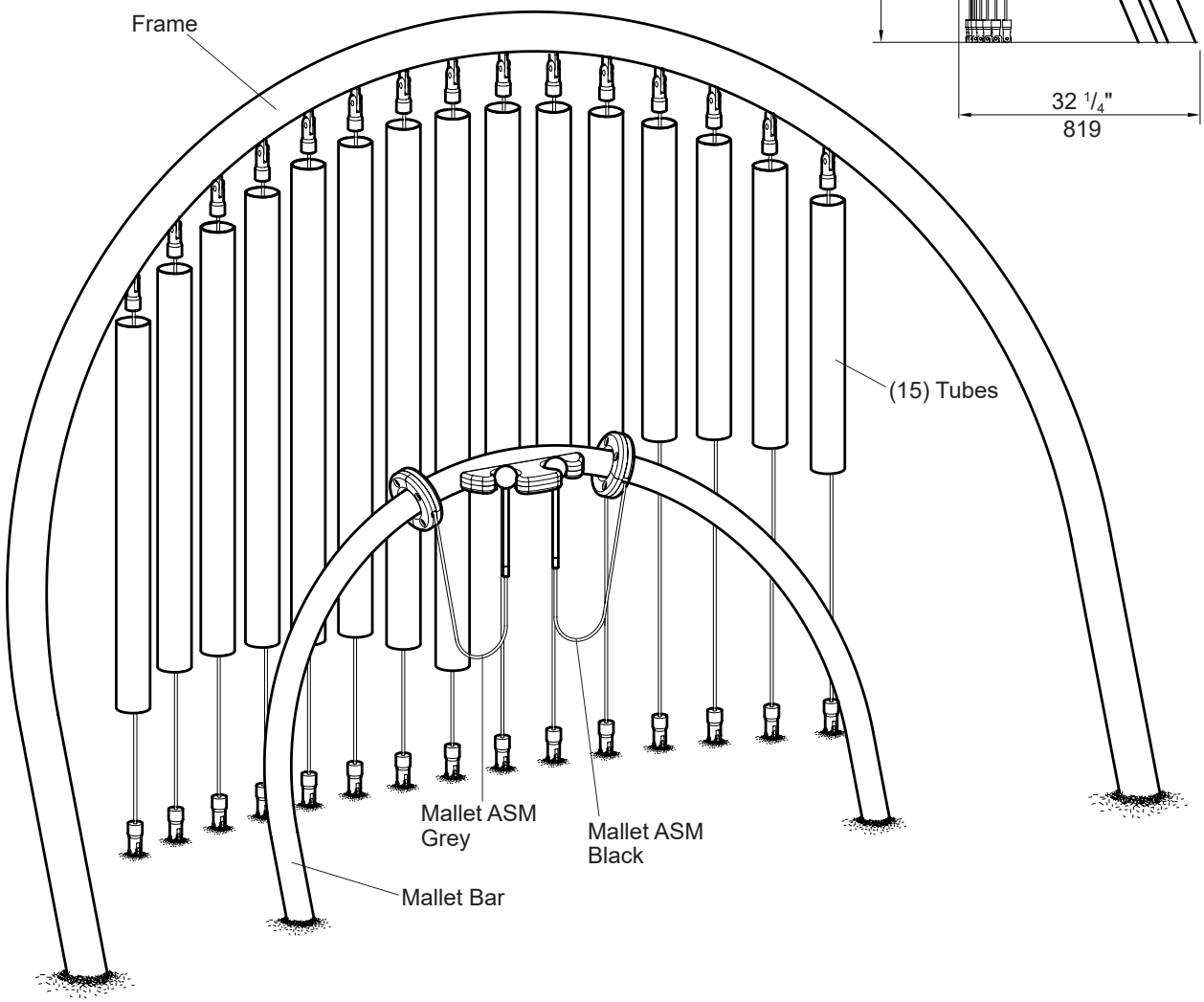
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216986

ELEVATION
(SIDE VIEW)





Sensory Play

214442 Grandioso™ Chimes

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Document #26814100

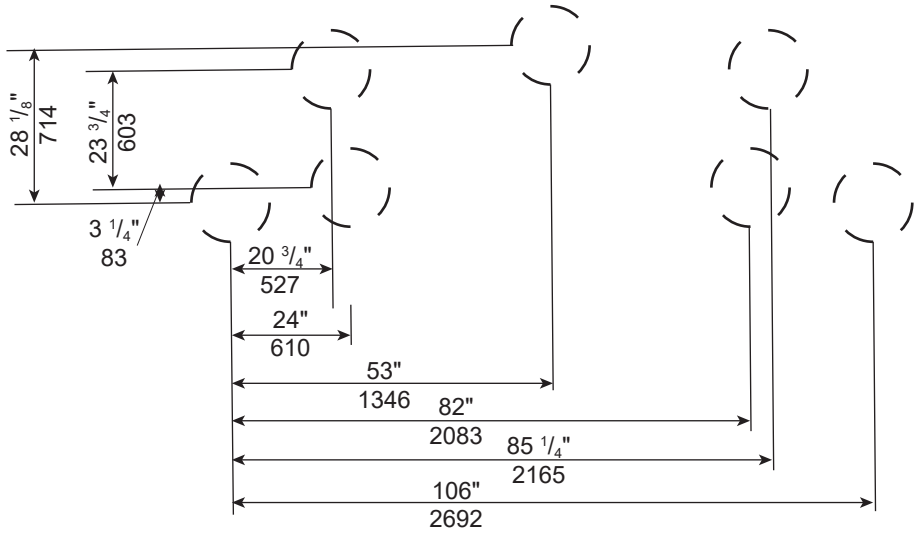
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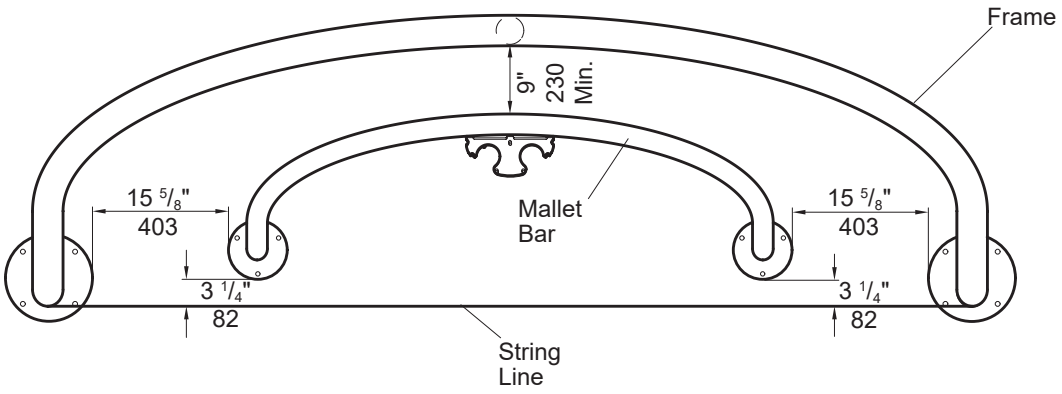
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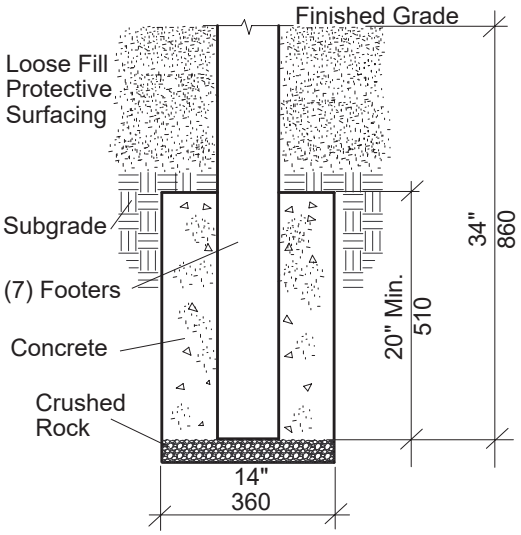
PLAN VIEW/FOOTING LAYOUT

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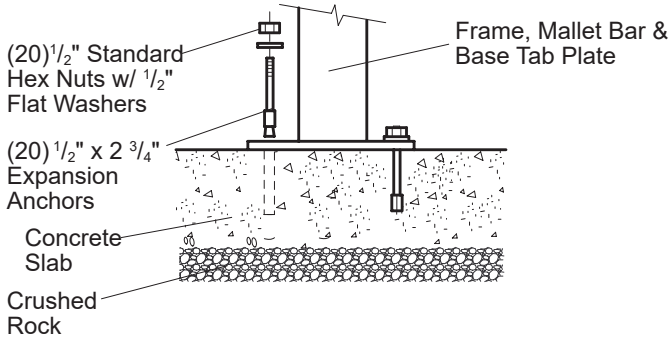




DETAIL
DIRECT BURY



DETAIL
SURFACE MOUNT



Sensory Play

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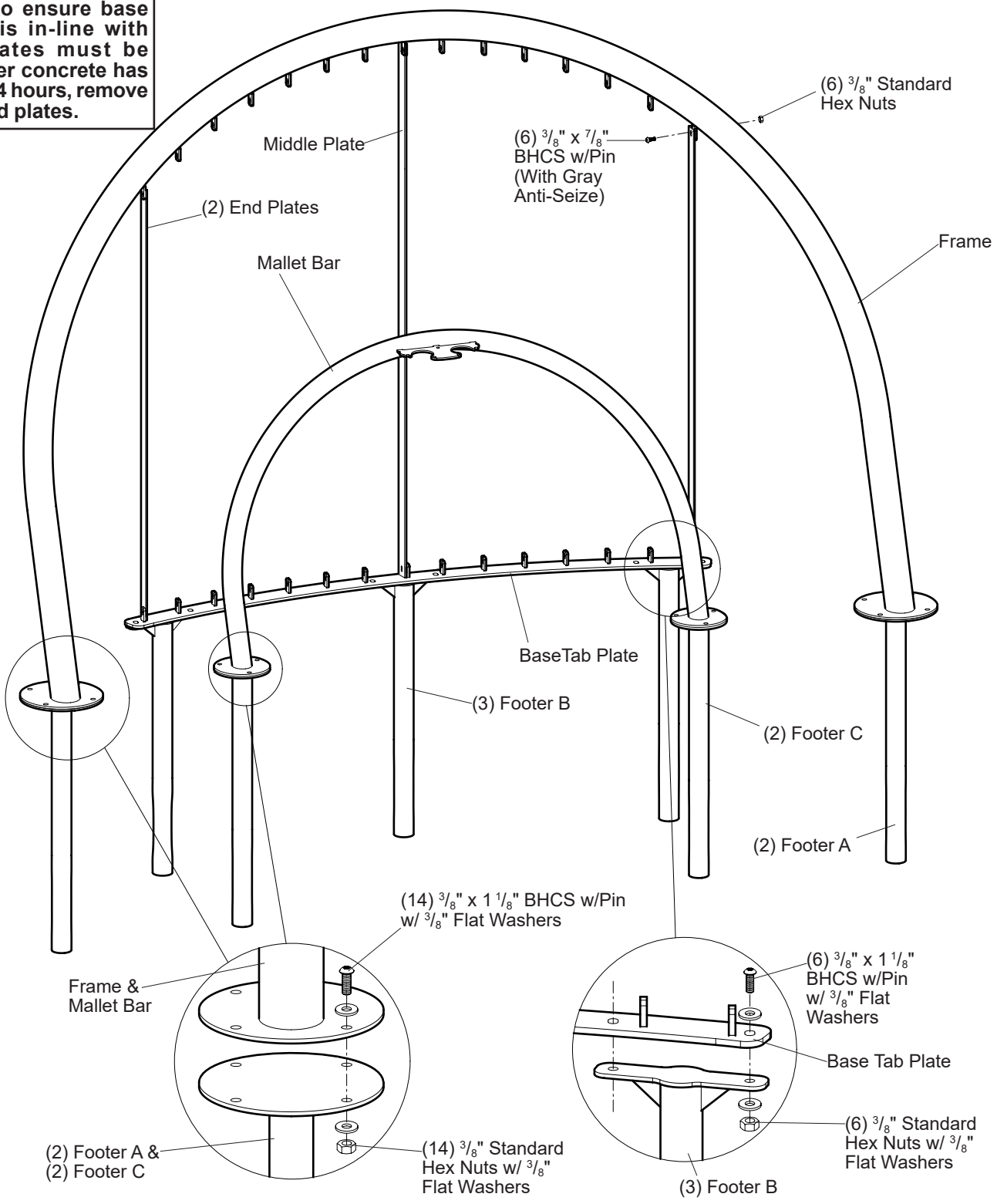
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DETAIL
FOOTER ATTACHMENT

NOTE: Middle & end plates are used to ensure base tab plate is in-line with frame. Plates must be plumb. After concrete has cured for 24 hours, remove and discard plates.



Sensory Play **214442 Grandioso™ Chimes**

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DETAIL
PROPPED IN FINAL POSITION



NOTE: Picture shown is an example of how to prop the frame and mallet bar in final position, using 2 x 4 boards and wooden stakes, prior to pouring concrete footings.

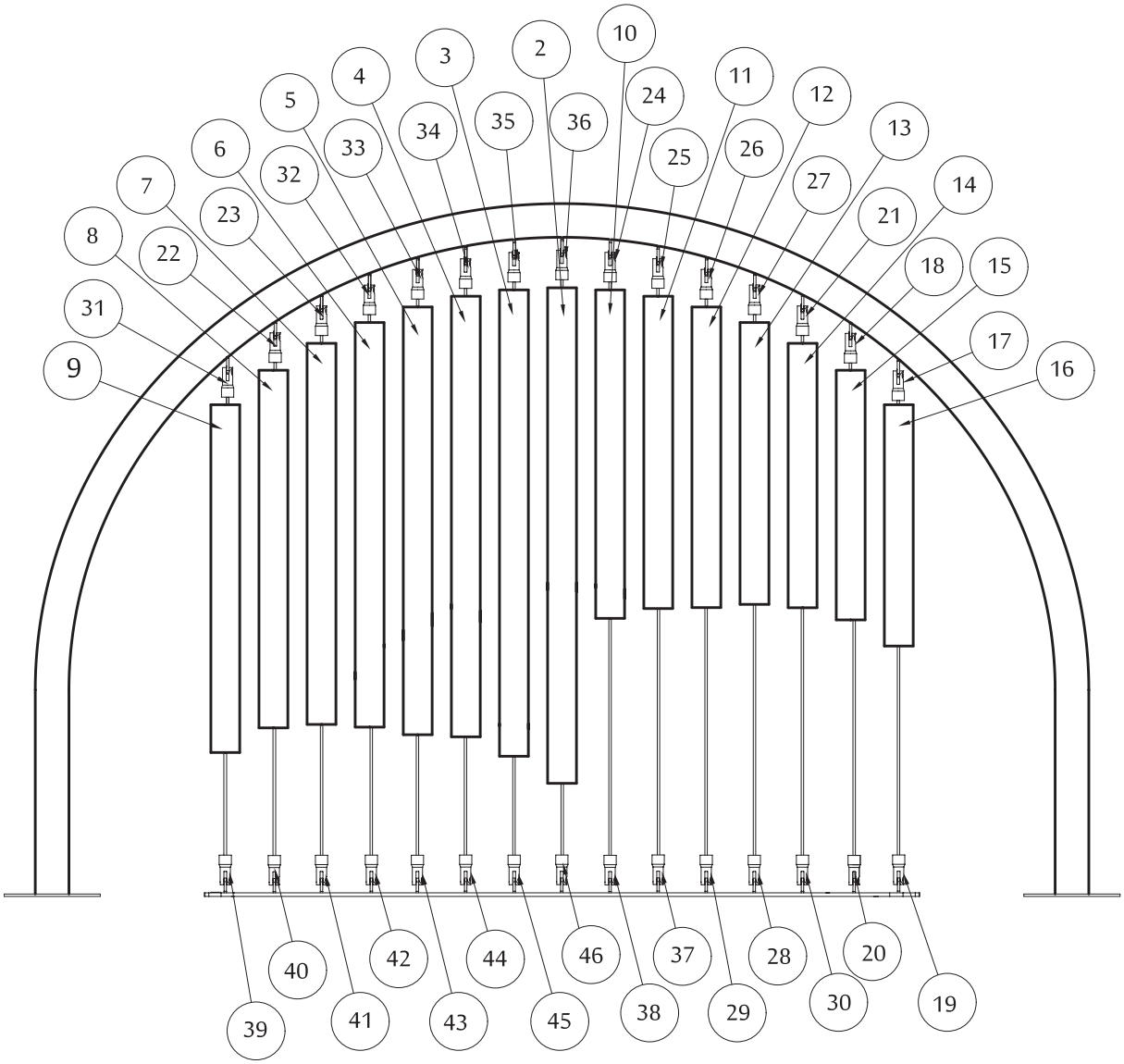
Sensory Play

214442 Grandioso™ Chimes

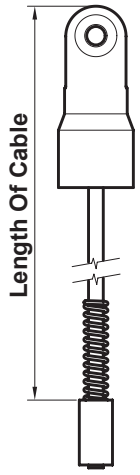
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ITEM NO.	PART#	DESCRIPTION
2	204333	LOW C TUBE 51 1/2"
3	204334	LOW D TUBE 48 1/2"
4	204335	LARGE LOW E TUBE 45 13/16"
5	204336	LARGE LOW F TUBE 45 1/2"
6	204337	LARGE LOW G TUBE 42"
7	204338	LARGE LOW A TUBE 39 5/8"
8	204339	LOW B TUBE 37 3/16"
9	204340	MIDDLE C TUBE 36 3/16"
10	204341	HIGH D TUBE 34 3/16"
11	204342	HIGH E TUBE 32 3/16"
12	204343	HIGH F TUBE 31 1/8"
13	204344	HIGH G TUBE 29 5/16"
14	204345	HIGH A TUBE 27 1/2"
15	204346	HIGH B TUBE 26"
16	204347	HIGH C TUBE 25 1/8"
17	213103	HIGH C, TOP CABLE 6 11/16"
18	213105	HIGH B, TOP CABLE 7 1/8"
19	213119	HIGH C, BOT CABLE 27 5/8"
20	213120	HIGH B, BOT CABLE 30 9/16"
21	213106	HIGH A, TOP CABLE 7 9/16"
22	213112	LOW B, TOP CABLE 9 5/8"
23	213113	LOW A, TOP CABLE 10 5/16"
24	213110	HIGH D, TOP CABLE 9 5/16"
25	213109	HIGH E, TOP CABLE 8 7/8"
26	213108	HIGH F, TOP CABLE 8 9/16"
27	213107	HIGH G, TOP CABLE 8 1/8"
28	213122	HIGH G, BOT CABLE 32 15/16"
29	213123	HIGH F, BOT CABLE 33 1/8"
30	213121	HIGH A, BOT CABLE 32 1/8"
31	213111	MID C, TOP CABLE 9 1/4"
32	213114	LOW G, TOP CABLE 10 15/16"
33	213115	LOW F, TOP CABLE 11 9/16"
34	213116	LOW E, TOP CABLE 11 15/16"
35	213117	LOW D TOP CABLE 12 9/16"
36	213118	LOW C, TOP CABLE 13 1/4"
37	213124	HIGH E, BOT CABLE 33 7/16"
38	213125	HIGH D, BOT CABLE 32 1/2"
39	213126	MID C, BOT CABLE 19 1/16"
40	213127	LOW B, BOT CABLE 21 13/16"
41	213128	LOW A, BOT CABLE 22 3/4"
42	213129	LOW G, BOT CABLE 23"
43	213130	LOW F, BOT CABLE 22 3/4"
44	213131	LOW E, BOT CABLE 22 7/8"
45	213132	LOW D, BOT CABLE 21 7/16"
46	213133	LOW C, BOT CABLE 19 1/4"



DETAIL
CABLE MEASUREMENT



Sensory Play

214442 Grandioso™ Chimes

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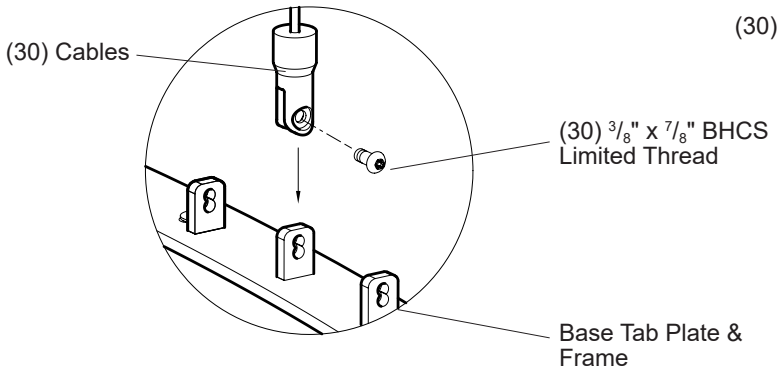
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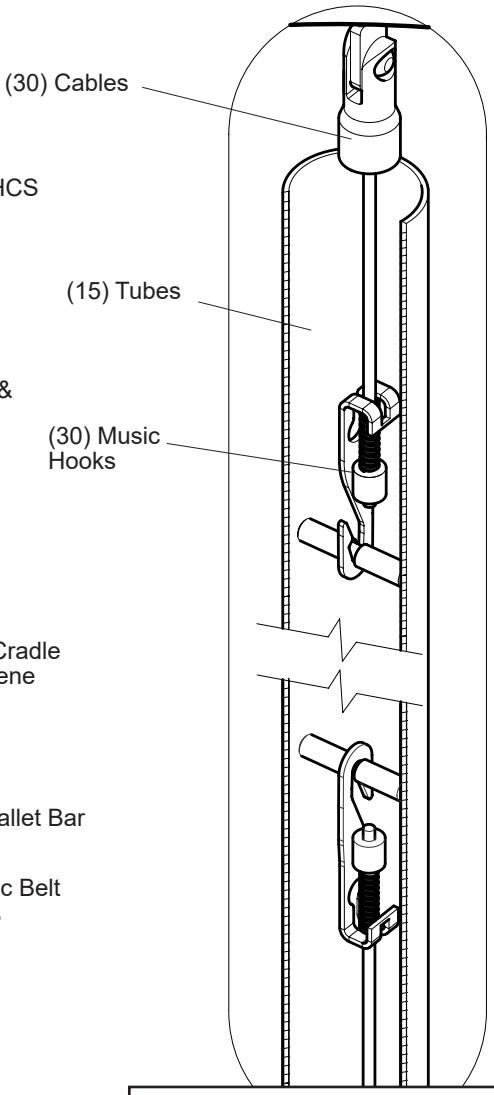
216986b

NOTE: There are two holes in base plate tabs & frame tabs. To increase tension in cable, attach cable to top hole in frame tab & bottom hole in base plate tab if necessary.

DETAIL
CABLE ATTACHMENT

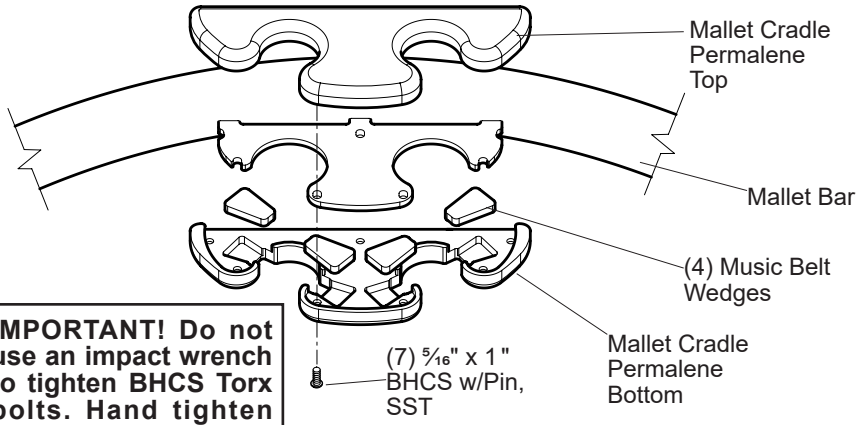


DETAIL
TUBE SECTION VIEW



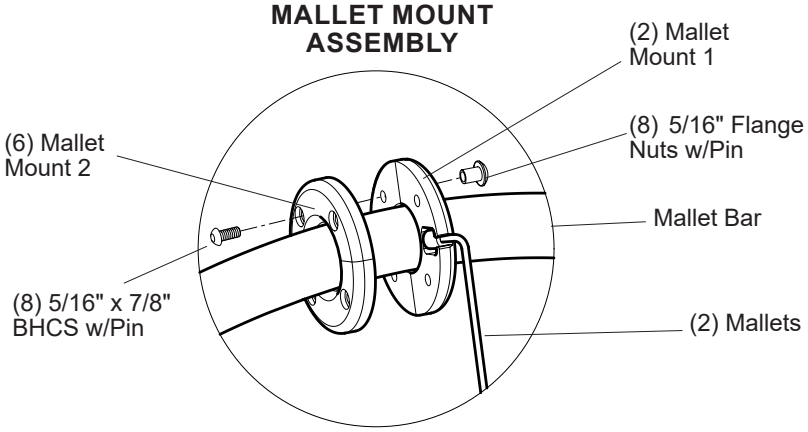
NOTE: For ease of installation, insert low/bottom cable with music hook through top of tube and attach music hook to middle of tube shaft. Turn tube 180° and insert top/high cable with music hook through top of tube and attach music hook to middle of tube shaft. Attach cable to base tab plate and frame.

DETAIL
MALLET CRADLE ASSEMBLY



IMPORTANT! Do not use an impact wrench to tighten BHCS Torx bolts. Hand tighten only.

DETAIL
MALLET MOUNT ASSEMBLY



Sensory Play

214442 Grandioso™ Chimes

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Sensory Play 214442 Grandioso™ Chimes

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Parts List

Part#	Description	Qty.
209877	Frame, Specify Color	1
213664	Base/Tab Plate, Specify Color	1
213678	Mallet Bar, Specify Color	1
213341	Mallet Mount 2, Specify Color	6
213934	Mallet Mount 1, Specify Color	2
213668	Footer A, Specify Color	2
213672	Footer B, Specify Color	3
213696	Footer C, Specify Color	2
268144	Mallet Cradle Permalene Top, Specify Color	1
268148	Mallet Cradle Permalene Bottom, Specify Color	1
216121	End Plate	2
216122	Middle Plate	1
216595	Grandioso shipping leg, specify color	1
218901	**Grandioso Chimes Kit**	1
204333	Low C Tube	1
204334	Low D Tube	1
204335	Low E Tube	1
204336	Low F Tube	1
204337	Low G Tube	1
204338	Low A Tube	1
204339	Low B Tube	1
204340	Middle C Tube	1
204341	High D Tube	1
204342	High E Tube	1
204343	High F Tube	1
204344	High G Tube	1
204345	High A Tube	1
204346	High B Tube	1
204347	High C Tube	1
220677	Mallet Assembly, Black	1
220676	Mallet Assembly, Grey	1
223361	**Kit Grandioso Cables**	**1**
213111	Mid C Top Cable,	1
213112	Low B Top Cable	1
213113	Low A Top Cable	1
213114	Low G Top Cable	1
213115	Low F Top Cable	1
213116	Low E Top Cable	1
213117	Low D Top Cable	1
213118	Low C Top Cable	1
213110	High D Top Cable	1
213109	High E Top Cable	1
213108	High F Cable	1
213107	High G Cable	1
213106	High A Cable	1
213105	High B Cable	1
213103	High C Cable	1
213119	High C Low Cable	1
213120	High B Low Cable	1
213121	High A Low Cable	1
213122	High G Low Cable	1
213123	High F Low Cable	1
213124	High E Low Cable	1
213125	High D Low Cable	1
213126	Mid C Low Cable	1
213127	Low B Bottom Cable	1
213128	Low A Bottom Cable	1
213129	Low G Bottom Cable	1
213130	Low F Bottom Cable	1
213131	Low E Bottom Cable	1
213132	Low D Bottom Cable	1
213133	Low C Bottom Cable	1
268174	**Grandioso Hardware Package**	1
100290	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	30
132626	BHCS 6LP 5/16" x 7/8", SST	8
175006	Flg Nut 6LP 5/16", SST	8
127546	3/8" x 7/8" BHCS w/Pin, SST	6
100327	3/8" Standard Hex Nut, SST	6
264971	5/16" x 1" BHCS w/Pin, SST	7
228545	Music Belt Wedge	4
127463	T-27 TPP Hex Bit (Torx), SST	1
210159	Music Hook	30
121348	**4-Hole Surface Mount Hardware Package**	2
100266	1/2" x 2 3/4" Standard Hex Nut, SST	8
100322	1/2" Standard Hex Nut, SST	8
100363	1/2" Flat Washer, SST	8
118613	**3-Hole Surface Mount Hardware Package**	2
100266	1/2" x 2 3/4" Standard Hex Nut, SST	6
100322	1/2" Standard Hex Nut, SST	6
100363	1/2" Flat Washer, SST	6
111392	**2-Hole Surface Mount Hardware Package**	3
100266	1/2" x 2 3/4" Standard Hex Nut, SST	6
100322	1/2" Standard Hex Nut, SST	6
100363	1/2" Flat Washer, SST	6
217156	**DB Footers Hardware Package**	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	20
100327	3/8" Standard Hex Nut, SST	20
100362	3/8" Flat Washer, SST	40

DB = Direct Bury
SM = Surface Mount

Specifications

Tube: Comprised of 3.000" (76,2 mm) O.D. x (.125")(3,17 mm) wall aluminum tubing, and 1/2" (12,7 mm) diameter aluminum rod.

Frame: Weldment comprised of 3.500" (88,9 mm) O.D. RS20 (.125")(3,17 mm) wall galvanized steel tubing, 1/4" stainless steel sheet and 1/4" (6,35 mm) thick HRPO steel sheet. Finish: ProShield®, color specified.

Mallet: Comprised of 2" (50,8 mm) diameter grey or black polyurethane, 1/2" (12,7 mm) diameter aluminum handle and 3/16" (4,74 mm) stainless steel cable with nylon coating.

Base/Tab Plate: Weldment comprised of 3/8" (9,52 mm) thick HRPO steel sheet, and 1/4" (6,35 mm) thick stainless steel sheet. Finish: ProShield®, color specified.

Mallet Bar: Weldment comprised of 2.375" (60,32 mm) O.D. RS40 (.130"-.140")(3,30 mm-3,55 mm) wall galvanized steel tubing, and 1/4" (6,35 mm) thick HRPO steel sheet. Finish: ProShield®, color specified.

Mallet Mount: Permalene®, color specified.

Footer: Weldment comprised of 2.375" (60,32 mm) O.D. RS20 (.095"-.105")(2,41 mm-2,66 mm) wall galvanized steel tubing, and 1/4" (6,35 mm) thick HRPO steel sheet. Finish: ProShield®, color specified.

Cables: Comprised of 3/16" (4,74 mm) diameter stainless steel cable with nylon coating.

Music Hook: Fabricated from 7 GA. (.188")(4,77 mm) stainless steel.

Cradle Top & Bottom: Permalene®, color specified.

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

Installation Time: **DB** - Approx. 8 man hours
SM - Approx. 6 man hours
Concrete Req.: **DB** - Approx. 13.09 cu. ft.
Weight: **DB** - 424 lbs.
SM - 361 lbs.

ECO # 0101835 Document 26814100 replaces 25529100. Update Rhapsody mallet assembly.

Specifications are subject to change without notice.

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Sensory Play 214442 Grandioso™ Chimes

Installation Instructions

1) **(Direct Bury)** Dig footings as shown. Refer to the Plan View Footing Layout.

2) **(Direct Bury)** Attach footers to base tab plate, frame and mallet bar. Place base tab plate, frame and mallet bar in footing holes. Refer to the Footer Attachment Detail.

3) Attach middle and end plates to frame and base tab plate. Make sure plates are plumb. Refer to the Footer Attachment Detail. **NOTE:** *Middle & end plates are used to ensure base tab plate is in-line with frame. Plates must be plumb After concrete has cured for 24 hours, remove and discard plates*.

4) Following the dimensions shown on the back of sheet 1, place mallet bar and frame in final position. **NOTE:** *See back of sheet 2 for an example of frame and mallet bar propped in final position.*

5) **(Direct Bury)** With base tab plate, frame and mallet bar footers propped in plumb and final position, pour concrete footings. Allow concrete footings to cure for a minimum of 24 hours before completing assembly.

   (Surface Mount) With base tab plate, frame and mallet bar in final position, drill $^1/_2$" x 3" deep holes through leg plates using hammer drill and $^1/_2$" masonry bit. Starting at the center of the tab plate, tap expansion anchors into drilled holes. Fasten base tab plate, frame and mallet bar to expansion anchors using $^1/_2$" standard hex nuts with $^1/_2$" flat washers.

6) Following the details on the back of sheet 3, complete the Grandioso chimes assembly. Refer to sheet 3 for correct positioning of tubes and cables with music hooks.

Specifications are subject to change without notice.

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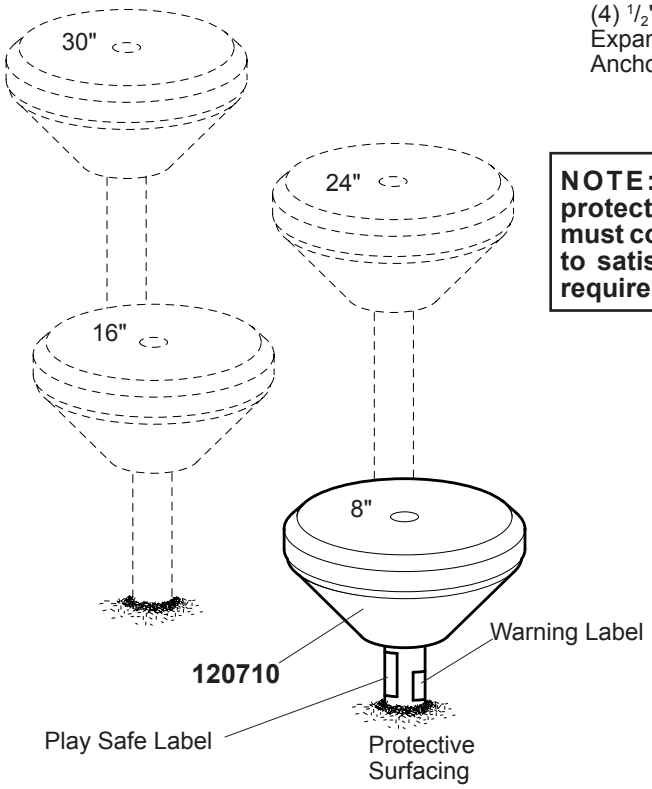
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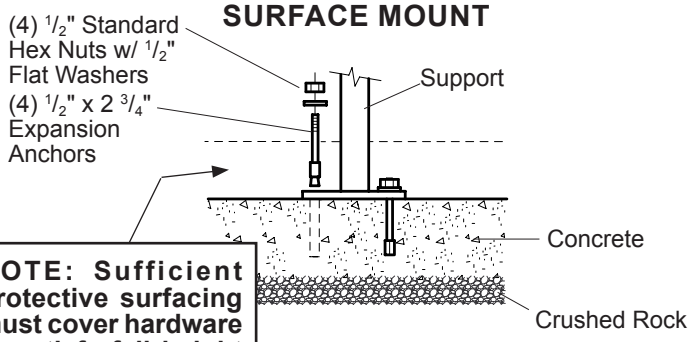
SAFETY NOTE

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.)

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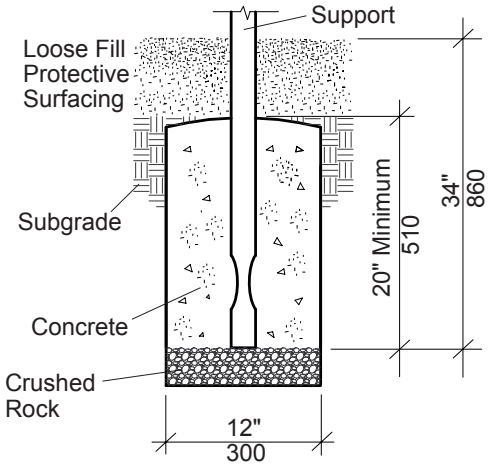


DETAIL
SURFACE MOUNT

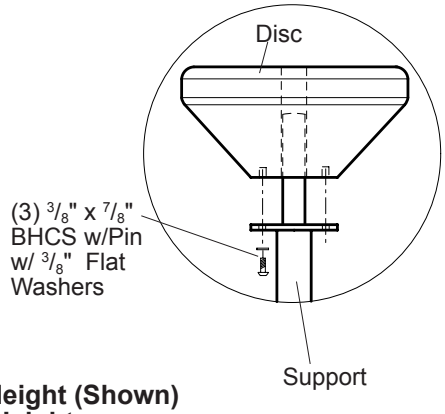


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

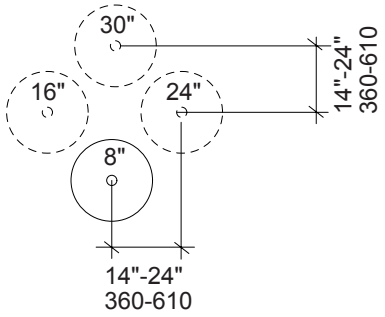
DETAIL
DIRECT BURY



DETAIL
DISC ATTACHMENT



PLAN VIEW/FOOTING LAYOUT
(Layout Varies - See Your Plan)



120710 8" Height (Shown)
158997 10" Height
120711 16" Height
158998 20" Height
120712 24" Height
120713 30" Height

Climbers

Pod Climbers

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Climbers Pod Climbers

Parts List

Part#	Description	Qty.
126956	Disc, Specify Color	*
169340	Support 8" (SM), Specify Color	*
169339	Support 8" (DB), Specify Color	*
169342	Support 10" (SM), Specify Color	*
169341	Support 10" (DB), Specify Color	*
169344	Support 16" (SM), Specify Color	*
169343	Support 16" (DB), Specify Color	*
156625	Support 20" (SM), Specify Color	*
156627	Support 20" (DB), Specify Color	*
120605	Support 24" (SM), Specify Color	*
120601	Support 24" (DB), Specify Color	*
153987	Support 30" (SM), Specify Color	*
153988	Support 30" (DB), Specify Color	*
183871	**Disc Climber Hardware Package**	1
100196	$^3/_8$" x $^7/_8$" BHCS w/Pin, SST	3
100365	$^3/_8$" Flat Washer, SST	3
156847	Play Safe Label, 5-12 Yrs.	1
183064	Warning Label	1
121348	**4 Hole (SM) Hardware Package**	1
100266	$^1/_2$" x 2 $^3/_4$" Expansion Anchor	4
100322	$^1/_2$" Standard Hex Nut, SST	4
100363	$^1/_2$" Flat Washer, SST	4

DB = Direct Bury
SM = Surface Mount
*** = Quantity Determined By Your Order**

Specifications

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

Support: Weldment comprised of 1.900" O.D. RS20 (.090" - .100" Wall), 1.315" O.D. RS20 (.080" - 090" Wall) and $^3/_{16}$" x 5" diameter plate. Finish: ProShield®, color specified.

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

Installation Time: **SM** - Approx. $^1/_2$ man hour each
DB - Approx. $^3/_4$ man hour each

Concrete Req.: Approx. 1.31 cu. ft. each

Weight:
8" - 12 lbs.
10" - 13 lbs.
16" - 14 lbs.
20" - 15 lbs.
24" - 15 lbs.
30" - 16 lbs.

Installation Instructions

1) **(Direct Bury)** Dig footing as shown. See your Plan View/Footing Layout.

2) Attach disc to support using $^3/_8$" x $^7/_8$" BHCS w/pin with $^3/_8$" flat washers, as shown.

3) **(Direct Bury)** Position support in footing hole and pour concrete footing. With support post plumb, prop support to hold in position.

   (Surface Mount) Mark anchor bolt locations on concrete slab through holes in support plate. Remove disc climber. Drill 3" deep holes on marks into concrete slab using hammer drill and $^1/_2$" masonry bit. Tap expansion anchors into holes and secure disc climber using $^1/_2$" standard hex nuts with $^1/_2$" flat washers.

4) Apply labels as shown.

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

Specifications are subject to change without notice.

Eco #54517 Document #18381300 replaces #16934500. Added warning label to hardware package.

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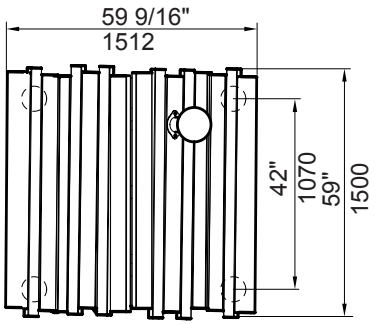
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SAFETY NOTE

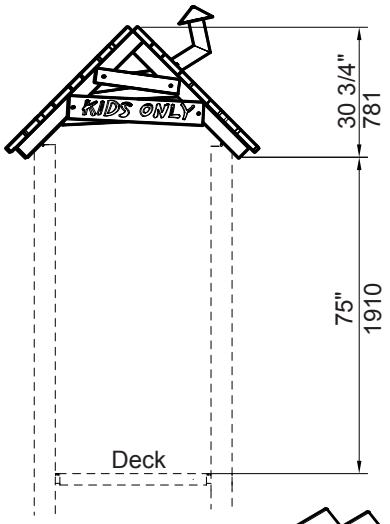
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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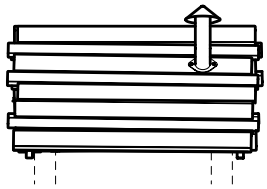
TOP VIEW



FRONT VIEW

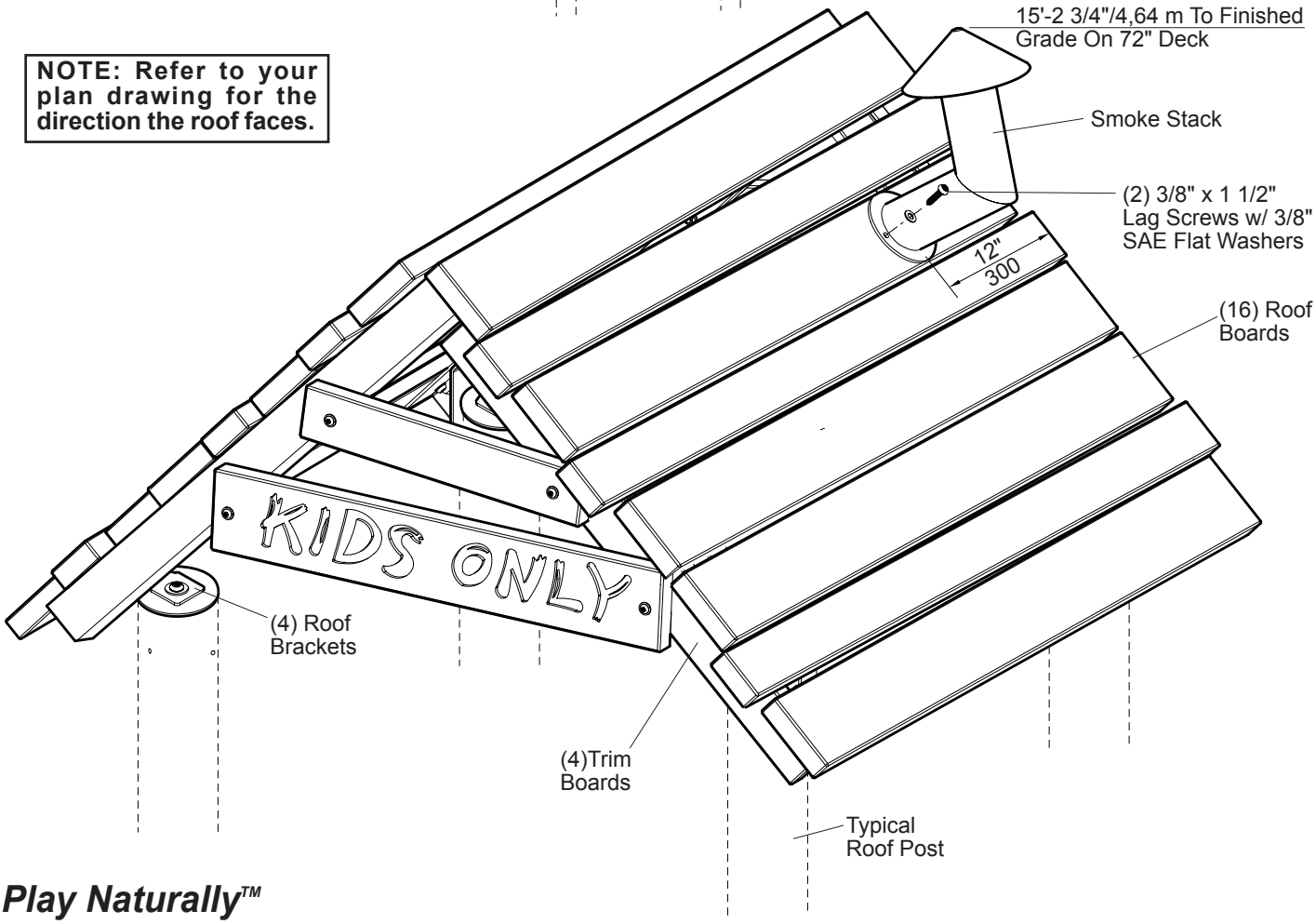


SIDE VIEW



NOTE: Attach Smoke Stack to 2" x 6" roof board, approx. as shown.

NOTE: Refer to your plan drawing for the direction the roof faces.



Play Naturally™

PlayBooster® 211190 Recycled Tree House Roof, w/Stack & w/Kids Only

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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PlayBooster® 211190 Recycled Tree House Roof, w/Stack & w/Kids Only

Parts List

Part#	Description	Qty.
174547	Roof Bracket, Tan	4
169412	Roof Frame, Tan	2
168694	Smoke Stack, Black	1
168116	2" x 4" x 59" Board, Cedar or Mink	6
168117	2" x 6" x 56" Board, Cedar or Mink	10
168691	2" x 4" x 20" Board, Cedar	2
168692	2" x 6" x 32" Board, Mink	2
168697	2" x 4" x 39" Board, Cedar	2
168698	2" x 4" x 35 3/8" Board, Cedar	2
177385	Roof Post Cap, Tan	4
234697	**Tree House Roof Hardware Package**	1
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100327	3/8" Standard Hex Nut, SST	4
100365	3/8" SAE Flat Washer, SST	63
100611	1/4" x 3/8" Drive Rivet, AL	16
168198	3/8" x 1 1/2" Lag Screw, SST	54
100362	3/8" Flat Washer, SST	8
100175	3/8" x 2 3/4" BHCS w/ Pin, SST	8
100353	3/8" Flange Nut	8

Specifications

Roof/Trim Boards: Recycled 1 1/2" x 3 1/2" and 1 1/2" x 5 1/2" high-density polyethylene, cedar and mink in color.

Smoke Stack: Weldment comprised of 3.500" O.D. RS20 (.125" wall) galvanized steel tube, 3/16" HRPO steel plate and 14 GA. (.078") galvannealed steel sheet. Finish: ProShield®, black in color.

Roof Frame: Fabricated from 3/16" x 6" aluminum 5052-H32 angle. Finish: ProShield, tan in color.

Roof Post Cap: Weldment comprised of 4 5/8" O.D. x 3/16" wall aluminum tube and 3/16" thick aluminum plate. Finish: ProShield, tan in color.

Roof Bracket: Fabricated from 7 GA. HRPO steel sheet. Finish: ProShield, tan in color.

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

Installation Time: Approx. 4 3/4 labor hours
Weight: 305 lbs.

Installation Instructions

1) **NOTE:** *Be sure posts are plumb, 42" on center and at same height to one another.* This will greatly simplify installation of roof.

2) Attach roof post caps to roof brackets, using 3/8" x 7/8" BHCS w/pin with 3/8" flat washers and 3/8" standard hex nuts with 3/8" flat washers. Insert roof post caps into top of posts. **NOTE:** *Make sure brackets are square and in line with each other.*

3) Position frames onto roof brackets with closed side of frame angle facing outward. Align second and third holes from end of frames with holes in roof brackets and fasten second and third roof boards to frames using 5/16" x 1 1/2" lag screws with 3/8" SAE flat washers through roof brackets, frames and into pilot holes in roof boards. Do not yet final tighten lag screws.

4) Attach smoke stack to 2" x 6" roof board, using 3/8" x 1 1/2" lag screws with 3/8" SAE flat washers.

5) Attach all remaining roof boards with 3/8" x 1 1/2" lag screws with 3/8" SAE flat washers. Do not yet final tighten lag screws.

6) Attach (2) 39" long and (2) 35 3/8" long trim boards to frames, starting at top, using 3/8" x 1 1/2" lag screws with 3/8" SAE flat washers. Do not yet final tighten lag screws.

7) Attach (2) 32" long and (2) 20" long boards to trim boards, using 3/8" x 2 3/4" BHCS w/pin with 3/8" SAE flat washers and 3/8" Flange Nut.

8) Final tighten lag screws in boards.

9) Drill 1/4" holes through roof post caps, using the predrilled holes in posts as a guide. Install 1/4" x 3/8" drive rivets into drilled holes and tap pins in until flush with rivet heads. See Detail.

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

Specifications are subject to change without notice.

Eco # 0101170 - Document # 23468800 replaced 21180200. Updated HDW for kids only sign.

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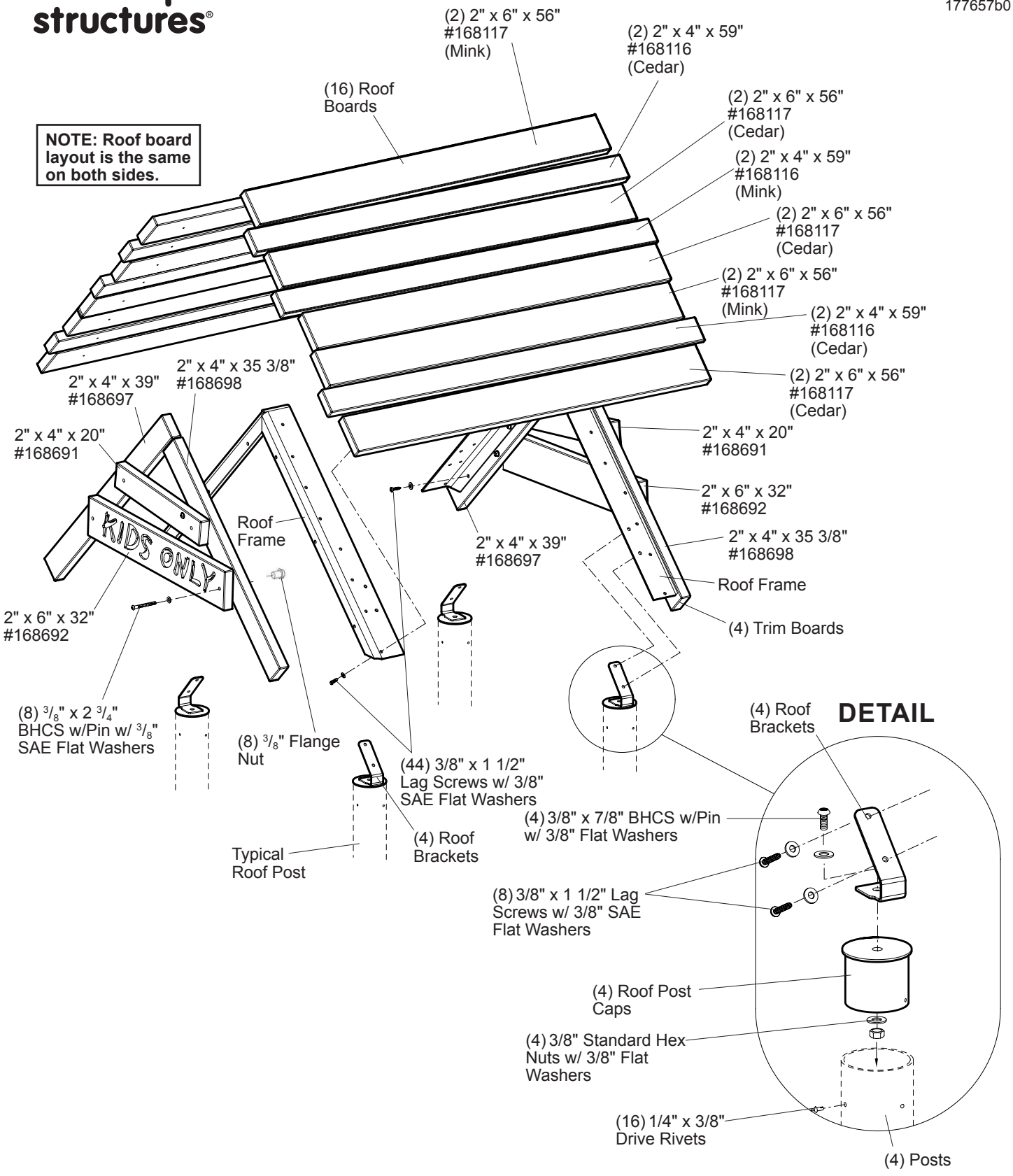
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SAFETY NOTE

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.)

177657b0



PlayBooster®

Roof Exploded Assembly

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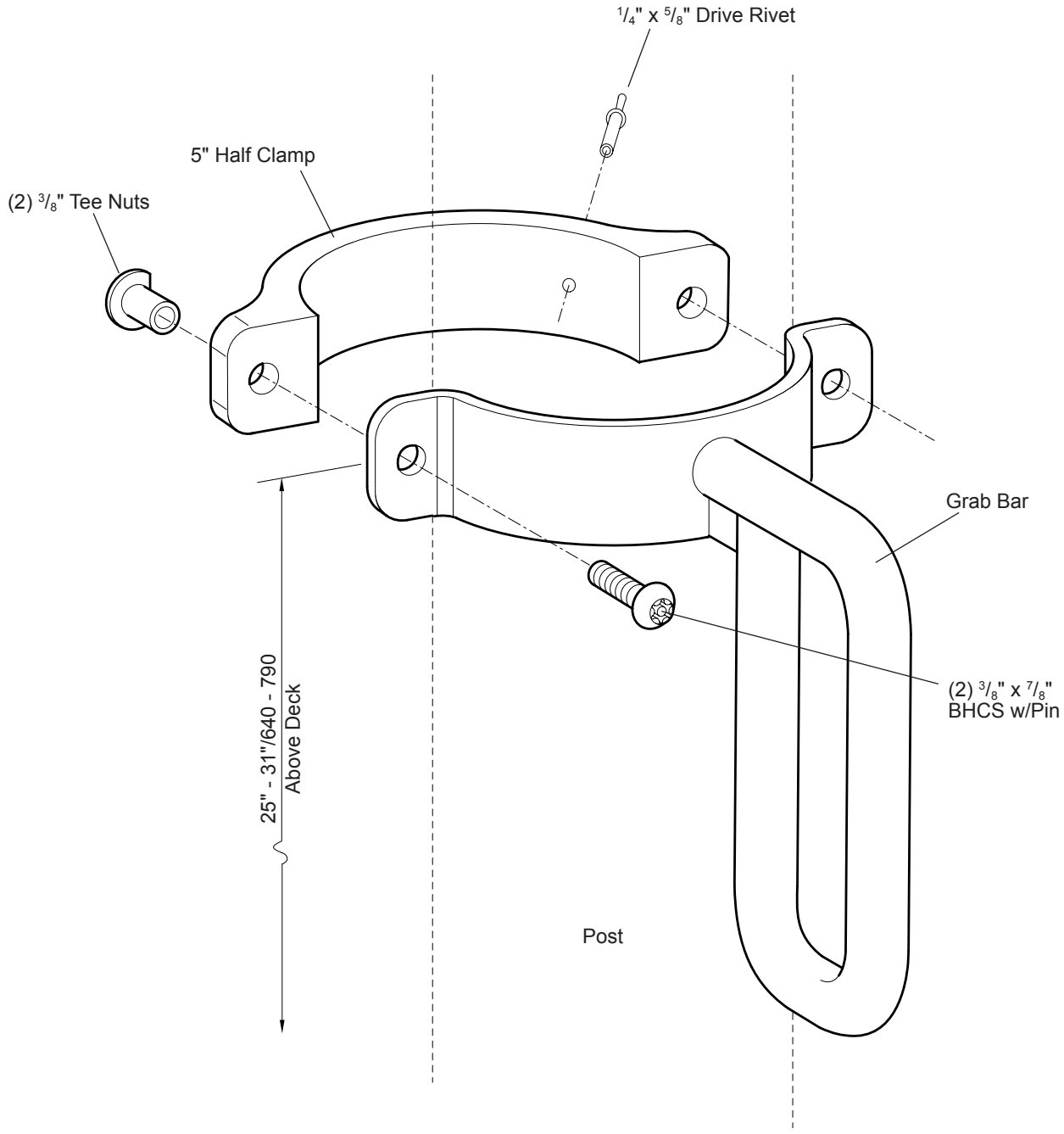
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SAFETY NOTE

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.)

12125200



120901 Grab Bar

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PlayBooster® 120901 Grab Bar

Parts List

Part#	Description	Qty.
105327	5" Half Clamp, Specify Color	1
141541	Grab Bar, Specify Color	1
106518	**Grab Bar Hardware Package**	1
100196	3/8" x 7/8" BHCS w/Pin, SST	2
100351	3/8" Tee Nut, SST	2
100610	1/4" x 5/8" Drive Rivet, AL/SST	1

Specifications

Grab Bar: Weldment comprised of formed 7/8" O.D. 11 GA (.120") and 1/4" x 1 3/4" stainless steel half clamp. Finish: TenderTuff™, color specified.

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

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

Installation Time: Approx. 1/4 man hour

Weight: 5 lbs.

Installation Instructions

1) Attach grab bar to post at height shown, using a 5" half clamp, 3/8" x 7/8" BHCS w/pin and 3/8" tee nuts.

2) Install 1/4" x 5/8" drive rivet in 5" half clamp. Refer to the Offset Hanger Clamp Spec Sheet.

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

Specifications are subject to change without notice.

ECO #51463 Document #14161500 replaces #13549700. Changed Grab Bar half clamp to stainless steel.

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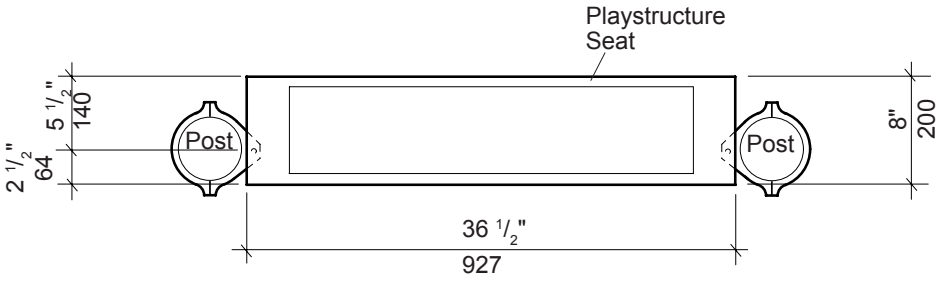
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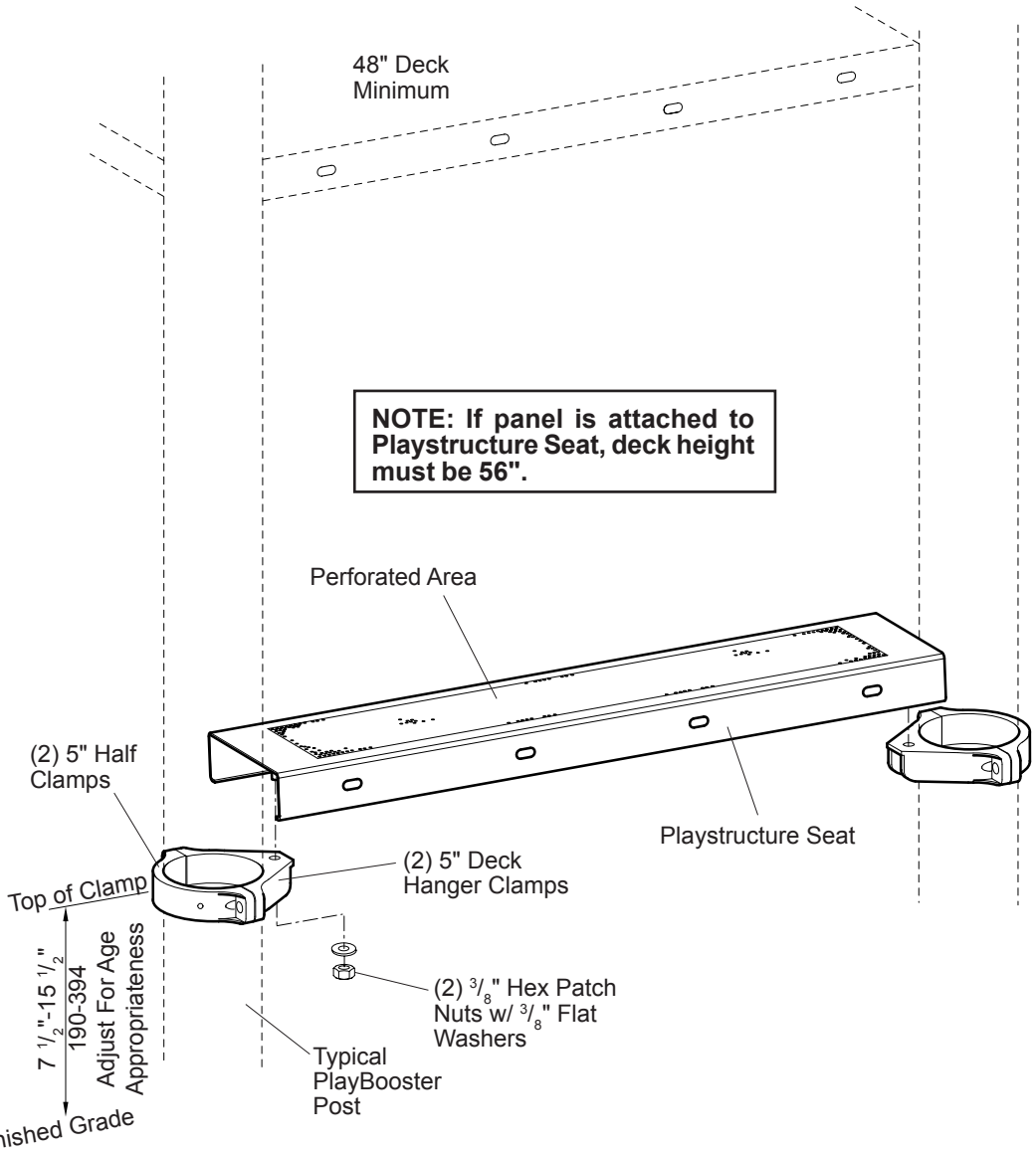
SAFETY NOTE

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.)

12498000

Top View





PlayBooster®

120818 Playstructure Seat

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PlayBooster® 120818 Playstructure Seat

Parts List

Part#	Description	Qty.
153952	Playstructure Seat, Specify Color	1
105327	5" Half Clamp, Specify Color	2
106022	5" Deck Hanger Clamp, Specify Color	2
106676	**Seat Hardware Package**	1
100198	$^{3}/_{8}$" x 1 $^{1}/_{8}$" BHCS w/Pin, SST	4
100321	$^{3}/_{8}$" Hex Patch Nut, SST	2
100351	$^{3}/_{8}$" Tee Nut, SST	4
100362	$^{3}/_{8}$" Flat Washer, SST	2
100610	$^{1}/_{4}$" x $^{5}/_{8}$" Drive Rivet, AL/SST	2

Specifications

Seat: Flange formed from 11 GA (.120") sheet steel. Seating surface is perforated with $^{5}/_{16}$" diameter holes. Finish: TenderTuff™, color specified.

Deck Hanger Clamp Assembly: Cast aluminum. Finish: ProShield®, color specified.

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

Installation Time: Approx. 1 man hour

Weight: 26 lbs.

Installation Instructions

1) Playstructure seat attaches offset to posts. Refer to your site layout for where and which direction the playstructure seat needs to be installed. **NOTE:** *If panel is attached to Playstructure Seat, deck height must be 56".*

2) Mark posts for the appropriate height of the playstructure seat you are installing. **NOTE:** *Height is adjustable 8"-16".*

3) Fasten 5"deck hanger clamps to the marked position on posts using 5" half clamps and $^{3}/_{8}$" x 1 $^{1}/_{8}$" BHCS w/pin with $^{3}/_{8}$" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.

4) Position seat over 5" deck hanger clamps and attach using $^{3}/_{8}$" hex patch nuts with $^{3}/_{8}$" flat washers, as shown.

5) Install $^{1}/_{4}$" x $^{5}/_{8}$" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.

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

Specifications are subject to change without notice.

Eco #54117 Document #17398100 replaces #15395600. Changed seat from brown to color specified.

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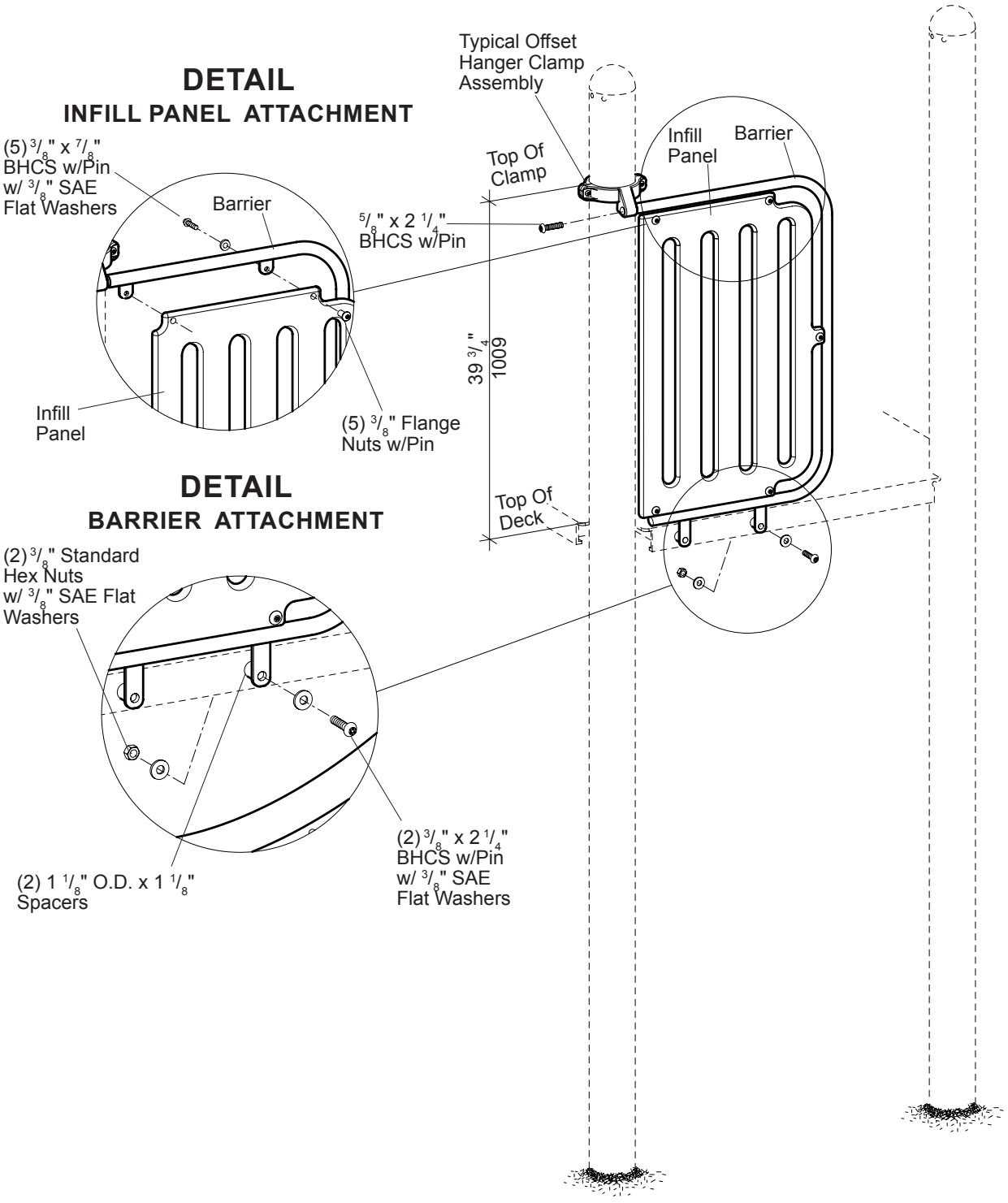
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SAFETY NOTE

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)

20040900



PlayBooster® 160694 Barrier w/Infill Panel

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PlayBooster® 160694 Barrier w/Infill Panel

Parts List

Part#	Description	Qty.
100610	1/4" x 5/8" Drive Rivet, AL/SST	1
105327	5" Half Clamp, Specify Color	1
113729	5" Offset Hanger Clamp, Specify Color	1
170930	Barrier, Specify Color	1
170931	Barrier Infill Panel, Specify Color	1
151072	1 1/8" O.D. x 1 1/8" Spacer, Specify Color	2
170993	**Single Barrier w/Infill Hardware Package**	1
100196	3/8" x 7/8" BHCS w/Pin, SST	5
100198	3/8" x 1 1/8" BHCS w/Pin, SST	2
100199	3/8" x 2 1/4" BHCS w/Pin, SST	2
100203	5/8" x 2 1/4" BHCS w/Pin, SST	1
100327	3/8" Standard Hex Nut, SST	2
100351	3/8" Tee Nut, SST	2
100353	3/8" Flange Nut w/Pin, SST	5
100365	3/8" SAE Flat Washer, SST	9

Specifications

Infill Panel: Solid color Permalene®, color specified..

Barrier: Weldment comprised of 1.125" O.D. 11 GA. (.120") steel tube per ASTM A513 with 203 or 303 stainless steel threaded inserts with 5/8" internal threads and 1/4" tabs. Finish: TenderTuff™, color specified.

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).

Installation Time: 1/2 man hour
Weight: 32 lbs.

Installation Instructions

1) Attach offset hanger clamp assembly to post at height shown, using 5" half clamp, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.

2) Attach barrier to offset hanger clamp assembly using 5/8" x 2 1/4" BHCS w/pin.

3) Place 1 1/8" O.D. x 1 1/8" spacers between barrier tabs and deck. Attach barrier to deck using 3/8" x 2 1/4" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers.

4) Attach infill panel to barrier using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Infill Panel Attachment Detail.

5) Install 1/4" x 3/8" drive rivets in beam steel half clamps. Drill through clamps and into 5" post with a 1/4" or "F" (only) drill bit, insert drive rivet in hole through clamp and into post. Hammer drive rivet pin in until flush with head. Refer to the Beam To Beam Attachment Detail.

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

Specifications are subject to change without notice.

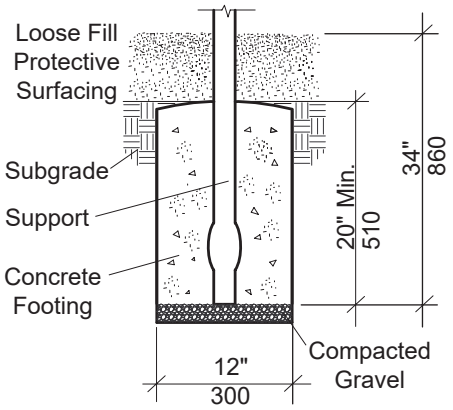
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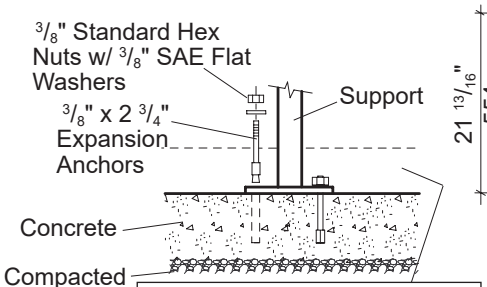
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SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL
DIRECT BURY FOOTING

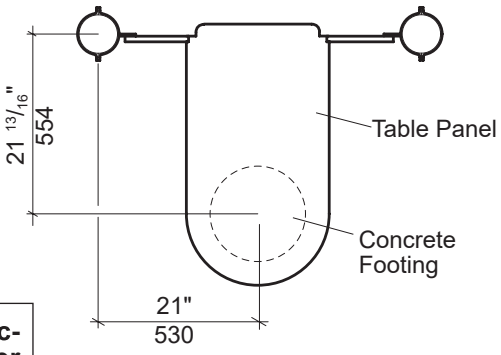


DETAIL
SURFACE MOUNT

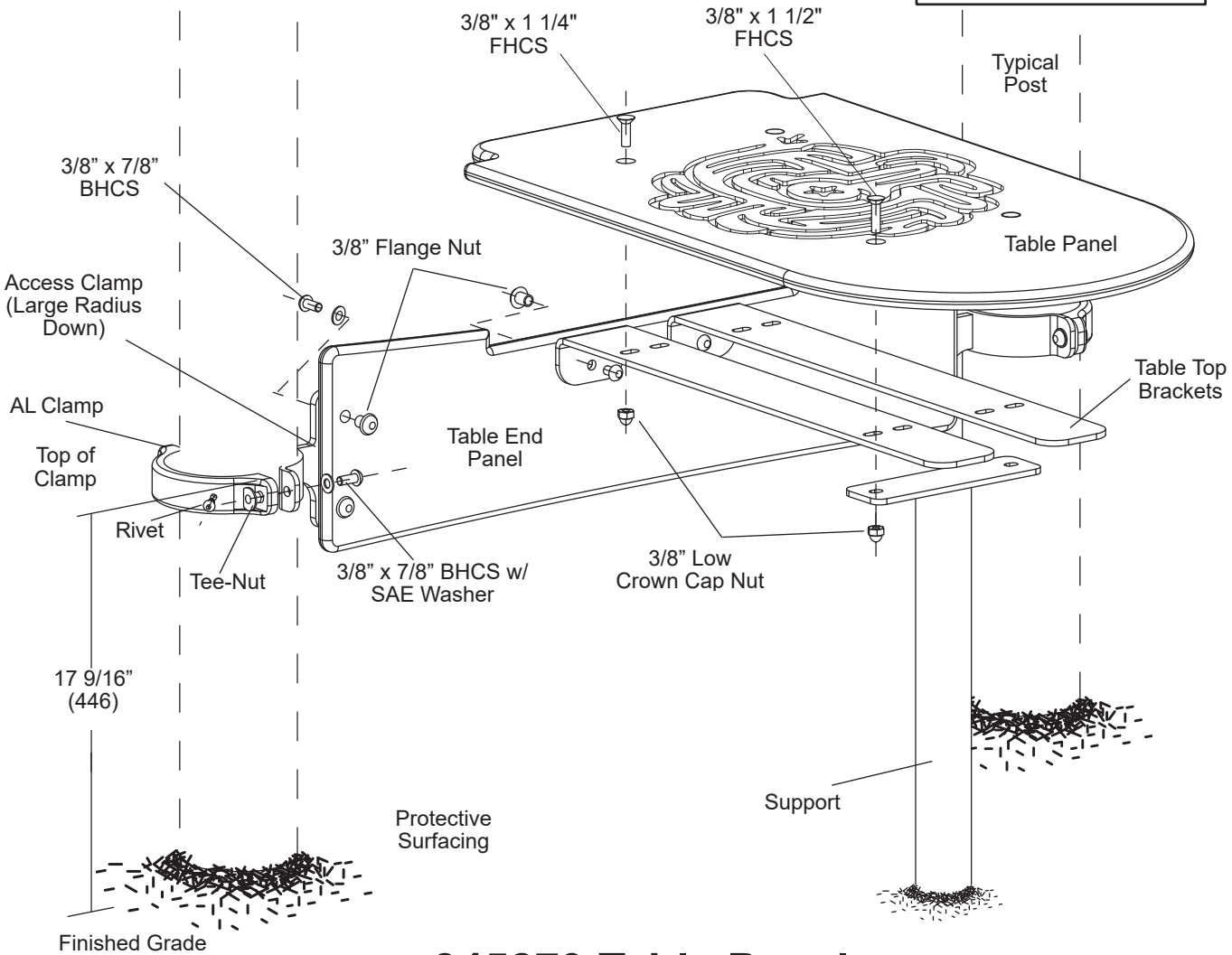


NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.

PLAN VIEW/ FOOTIN G LAYOUT



NOTE: This Panel is used at ground level only, under 40" or higher decks.



345279 Table Panel

PlayBooster®

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Document #34511400

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PlayBooster® 345279 Table Panel

Parts List

Part#	Description	Qty.
351875	Table End Panel, Specify Color	1
350184	Table Panel, Specify Color	1
165143	Table Top Bracket, Specify Color	2
105327	5" Half Clamp, Specify Color	2
188387	Access Clamp, Specify Color	2
103116	Support Leg (DB), Specify Color	1
103119	Support Leg (SM), Specify Color	1
100610	1/4" x 5/8" Drive Rivet, AL/SST	2
152778	**Table Top Hardware Package**	**1**
100195	3/8" x 5/8" BHCS w/Pin, SST	2
100252	3/8" x 1 1/4" Flat Head Cap Screw, SST	2
100349	3/8" Low Crown Cap Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	2
151421	3/8" x 1 1/2" Flat Head Cap Screw, SST	2
213029	**Panel Hardware Package**	**1**
100196	3/8" x 7/8" BHCS w/Pin, SST	8
100351	3/8" Tee Nut, SST	4
100353	3/8" Flange Nut w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	8
121256	**2 Hole (SM) Hardware Package**	**1**
100263	3/8" x 2 3/4" Expansion Anchor	2
100327	3/8" Standard Hex Nut, SST	2
100365	3/8" SAE Flat Washer, SST	2

Specifications

Table End Panel:	Permalene® , color specified.
Table Panel:	Permalene® , color specified.
Table Top Bracket:	Fabricated from 1/4" x 3 1/2" x 28 9/16" HRPO flat steel. Finish: ProShield®, color matched to posts.
Access Clamp:	Weldment comprised of 3/8" HRPO steel plate and 1/4" x 1 3/4" wide steel clamp. Finish: ProShield, color specified.
Support Leg:	Weldment comprised of 2.375" O.D. RS-20 (.095" - .105") galvanized steel tubing and 1/4" x 2 1/2" x 9" flat plate. Finish: ProShield, color specified.
Half Clamp:	Cast aluminum. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	DB - 1 1/4 Approx. man hours
	SM - 3/4 Approx. man hours
Concrete Req.:	Approx. 1.5 cu. ft.
Weight:	59 lbs.

Installation Instructions

1) (Direct Bury) Dig footing as shown.

2) Attach the access clamps to posts at the height shown, using 5" half clamps, 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" tee nuts. NOTE: The large radius on the access clamp needs to face down, as show.

3) Attach table end panel to access clamps, using 3/8" x 7/8" BHCS w/ pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin. Refer to the Panel Attachment Detail.

4) Attach table top brackets and support leg to underside of table top panel, using 3/8" x 1 1/4" flat head cap screws through panel and table top brackets, and 3/8" x 1 1/2" flat head cap screws through panel, table top brackets and support leg. Secure with 3/8" low crown cap nuts.

5) Attach the table top assembly to table end panel, using 3/8" x 5/8" BHCS w/pin through table top brackets and 3/8" flange nuts w/pin through panel.

6) (Direct Bury) With the table level and support leg plumb, pour concrete footing. Allow concrete to cure for a minimum of 72 hours before users are allowed to play on the structure.

   (Surface Mount) Using 3/8" masonry bit, drill 3" deep holes into concrete slab through holes in base plate of support leg. Insert and tap 3/8" x 2 3/4" expansion anchors into holes and secure with 3/8" standard hex nuts and 3/8" SAE flat washers.

7) Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.

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

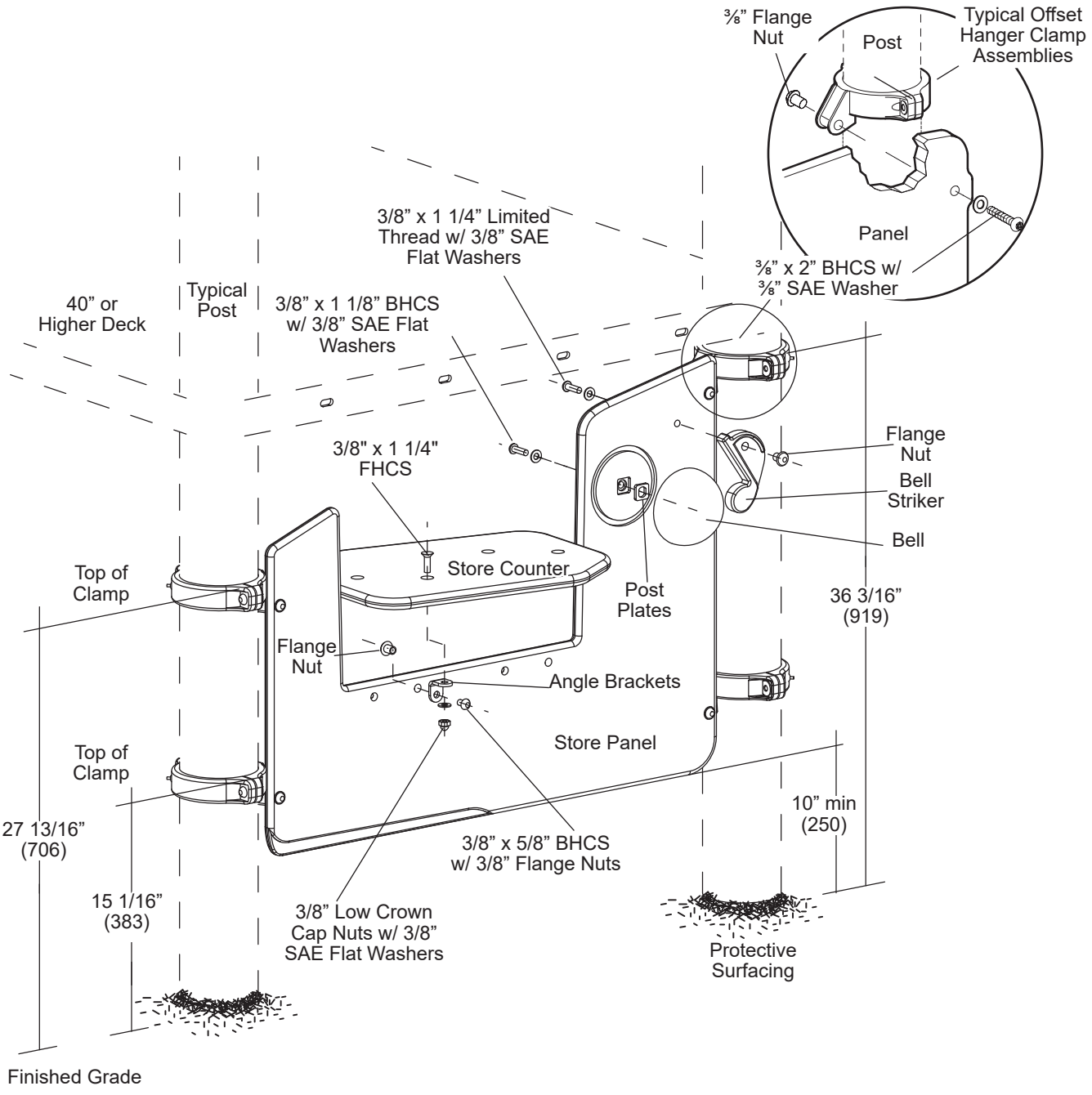
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SAFETY NOTE
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL PANEL ATTACHMENT



NOTE: This Panel is used at ground level only, under 40" or higher decks.

PlayBooster®

345276 Storefront Panel

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Document #34511000

PlayBooster® 345276 Storefront Panel

Parts List

Part#	Description	Qty.
105327	5” Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
353530	Storefront Panel, Specify Color	1
353537	Store Counter, Specify Color	1
158434	Bell 5” PNT	1
158318	Bell Striker Accent	1
133444	**Panel Attachment Hardware Package**	**1**
100173	3/8” x 2” BHCS, SST	4
100198	3/8” x 1 1/8” BHCS w/Pin, SST	8
100351	3/8” Tee Nut, SST	8
100353	3/8” Flange Nut w/Pin, SST	4
100610	1/4” x 5/8” Drive Rivet, AL/SST	4
100365	3/8” SAE Flat Washer, SST	4
353997	**Store Counter Top Bell Hardware Package**	**1**
100195	3/8” x 5/8” BHCS w/Pin, SST	4
100252	3/8” x 1 1/4” Flat Head Cap Screw, SST	4
100349	3/8” Low Crown Cap Nut, SST	4
100353	3/8” Flange Nut w/Pin, SST	5
100365	3/8” SAE Flat Washer, SST	6
188664	Steel Angle Bracket, Silver	4
100292	BHCS 6LP LTHD 3/8x1-1/4i, SST	2
158335	Post Plate,SST	1

Specifications

Storefront Panel: Permalene® color specified.

Bell Striker: Permalene® color specified.

Offset Hanger Clamp Assembly: 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).

Bells: Fabricated from 10 GA. (.135”) HRPO low carbon steel. Finish: ProShield®, color specified.

Installation Time: Approx. 1 man hour

Weight: 29 lbs.

Installation Instructions

1) Attach offset hanger clamp assemblies to posts at height shown, using half clamps and 3/8” x 1 1/8” BHCS w/pin with 3/8” tee nuts. Refer To The Typical Offset Hanger Clamp Spec Sheet.

2) Attach panel to offset hanger clamp assemblies, using 3/8” x 2” BHCS with 3/8” SAE flat washers and 3/8” flange nuts w/pin.

3) Attach angle brackets to storefront panel using 3/8” x 5/8” BHCS w/ pin through angles and 3/8” flange nuts w/pin through panel. Attach store counter top to angle brackets using 3/8” x 1 1/4” flat head cap screws through counter top and 3/8” low crown cap nuts with 3/8” SAE flat washers underneath angles.

4) Attach the bell striker to bell panel, using using 3/8” x 1 1/4” limited thread BHCS w/pin with 3/8” SAE flat washers and 3/8” flange nuts w/pin, as shown.

6) Insert the post plate into bell panel cutout. Attach the bell to bell panel, using 3/8” x 1 1/8” BHCS w/pin and 3/8” SAE flat washers, as shown.

7) Install 1/4” x 5/8” drive rivets in all 5” half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.

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

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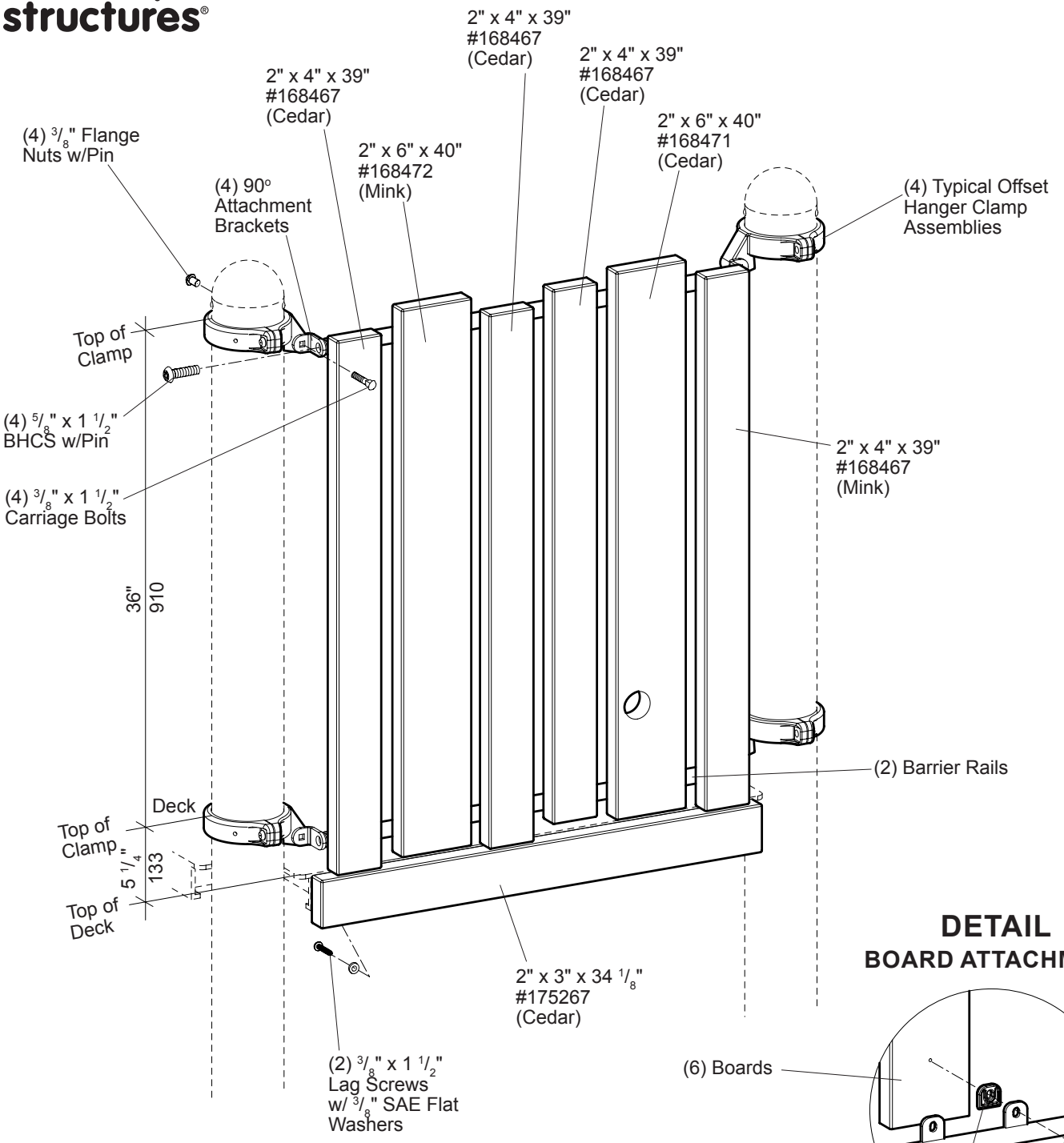
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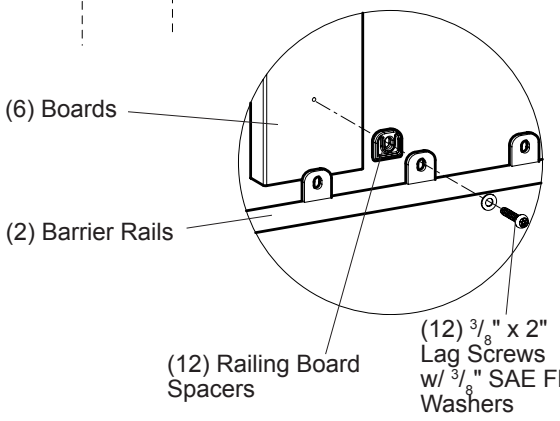
SAFETY NOTE

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*.)

21516500



DETAIL
BOARD ATTACHMENT



Play Naturally™

PlayBooster®

169319 Recycled Lumber Panel

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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PlayBooster® 169319 Recycled Lumber Panel

Parts List

Part#	Description	Qty.
100610	1/4" x 5/8" Drive Rivet, AL/SST	4
105327	5" Half Clamp, Specify Color	4
113729	Offset Hanger Clamp, Specify Color	4
174605	Barrier Rail, Tan	2
168467	2" x 4" x 39" Board, Cedar	3
168467	2" x 4" x 39" Board, Mink	1
168471	2" x 6" x 40" Board, Cedar	1
168472	2" x 6" x 40" Board, Mink	1
175267	2" x 3" x 34 1/8" Deck Face Board, Cedar	1
174606	90° Attachment Bracket, Tan	4
215164	**Lumber Hardware Package**	1
100198	3/8" x 1 1/8" BHCS w/Pin, SST	8
100201	5/8" x 1 1/2" BHCS w/Pin, SST	4
100351	3/8" Tee Nut, SST	8
100365	3/8" SAE Flat Washer, SST	14
139039	3/8" x 2" Lag Screw, SST	12
168198	3/8" x 1 1/2" Lag Screw, SST	2
116017	3/8" x 1 1/2" Carriage Bolt w/Patch, SST	4
100353	3/8" Flange Nuts w/Pin, SST	4
207485	Railing Board Spacer, Tan	12

Specifications

Poly Board: Recycled high-density polyethylene, cedar or mink in color.

Barrier Rail: Weldment comprised of 1.125" (28,57 mm) O.D. 11 GA. (.120") (3,05 mm) steel tubing with 203 or 303 stainless steel inserts, with 5/8" (15,87 mm)internal threads and 1/4" (6,57 mm) HRPO steel plate. Finish: ProShield®, tan in color.

90° Bracket: Formed from 1/4" (6,57 mm) x 1 1/4" (32,12 mm) HRPO flat steel. Finish: ProShield, tan in color.

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).

Installation Time: Approx. 1 1/4 man hours
Weight: 85 lbs.
Fall Height: Deck Height

Installation Instructions

1) Attach offset hanger clamps to posts at heights shown using 5" half clamps, 3/8" x 1 1/8" BHCS w/pin and 3/8" tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
2) Attach the 90° attachment brackets to barrier rails, using 5/8" x 1 1/2" BHCS w/pin.
3) Attach the 90° attachment brackets to the offset hanger clamps using 3/8" x 1 1/2" carriage bolts and 3/8" flange nuts w/pin.
4) Line up pilot holes in barrier boards with spacers and barrier rail tabs, and attach using 3/8" x 2" lag screws with 3/8" SAE flat washers. Refer to the Board Attachment Detail.
5) Line up pilot holes in deck face board with slots in deck and attach, using 3/8" x 1 1/2" lag screws with 3/8" SAE flat washers.
6) Install protective surfacing before users are allowed to play on the structure.

Specifications are subject to change without notice.

Eco #0100527 Document 21516500 replaces 21142000. Replaced spacers.

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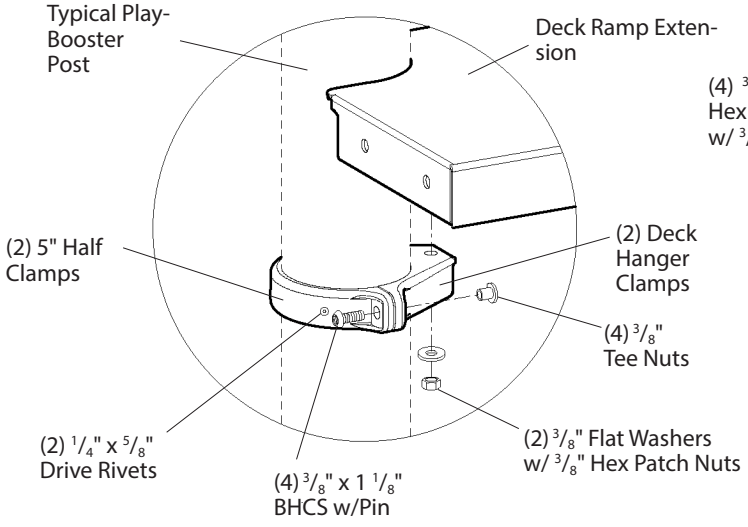
ISO 9001 Certified

SAFETY NOTE

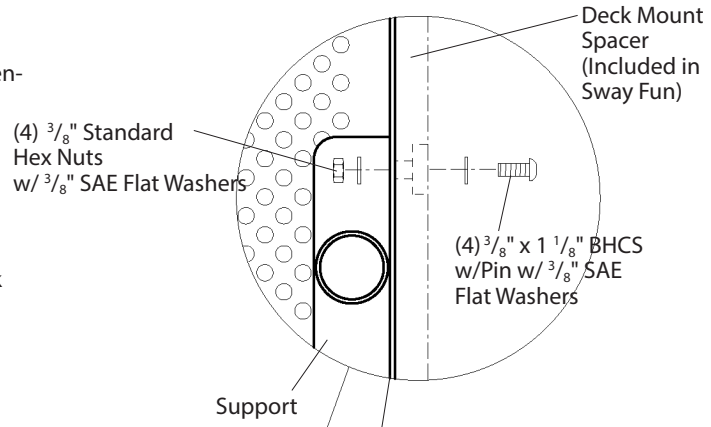
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

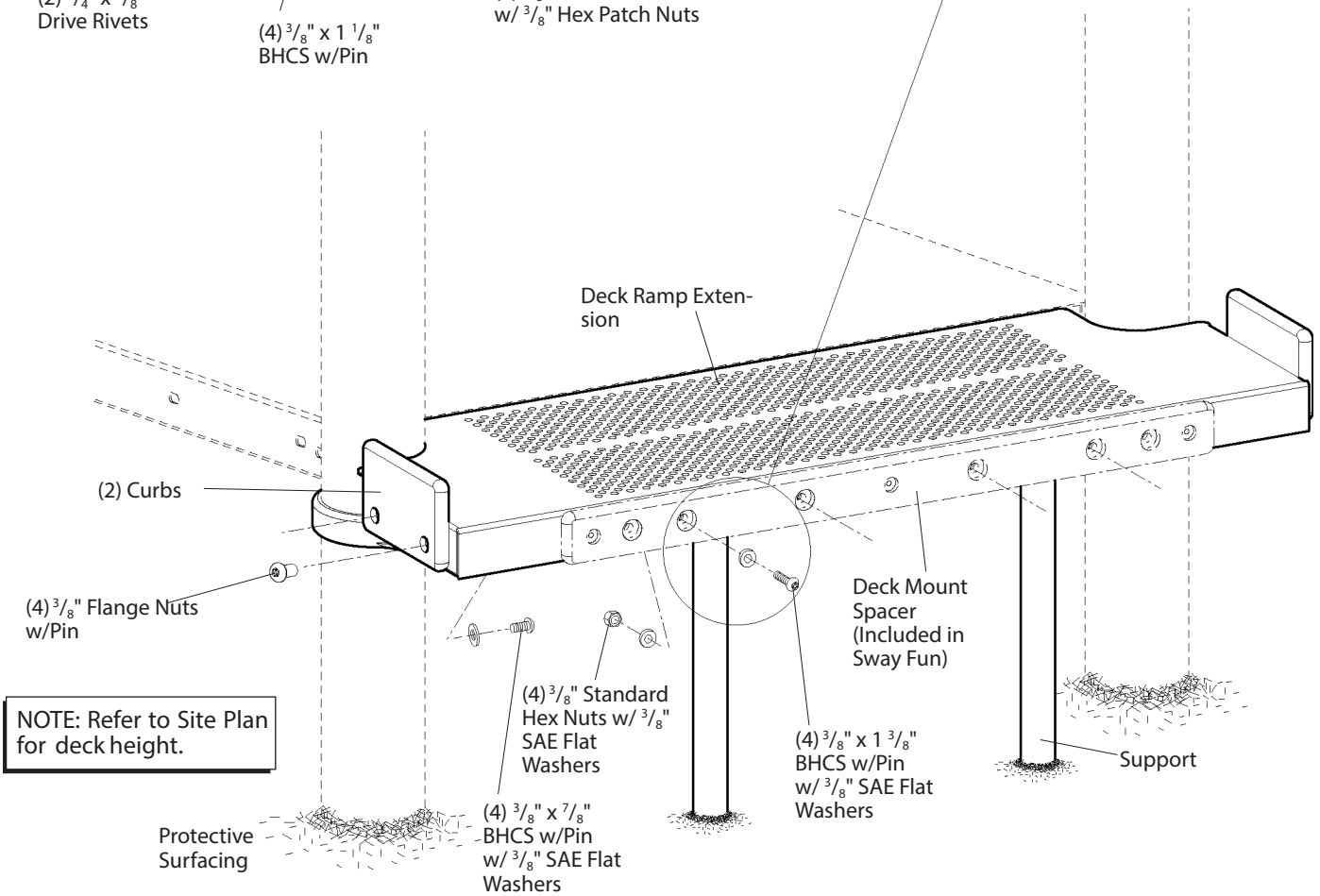
18278300

DETAIL
DECK ATTACHMENT



DETAIL
(BOTTOM VIEW)





NOTE: Refer to Site Plan for deck height.

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171539 Deck Ramp Extension

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PlayBooster 171539 Deck Ramp Extension

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J:\SPECS\182\24598500.P65

Parts

Part#	Description	Qty.
105327-01	5" Half Clamp, Specify Color	2
106022-00	Deck Hanger Clamp, Specify Color	2
182781-00	Curb, Specify Color	2
163641-00	Deck Ramp Extension, Specify Color	1
181399-00	Support, DB, Specify Color	1
181402-00	Support, 2" SM (12" Deck), Specify Color	1
181400-00	Support, 2" SM (16" Deck), Specify Color	1
100610-00	1/4" x 5/8" Drive Rivet, AL/SST	2
245986-00	**Deck Ramp Extension Hardware Package**	1
113027-00	3/8" x 1 3/8" BHCS w/Pin, SST	8
100321-00	3/8" Hex Patch Nut, SST	2
100327-00	3/8" Standard Hex Nut, SST	4
100351-00	3/8" Tee Nut, SST	4
100362-00	3/8" Flat Washer, SST	2
100365-00	3/8" SAE Flat Washer, SST	12
100196-00	3/8" x 7/8" BHCS w/Pin, SST	4
100353-00	3/8" Flange Nuts w/Pin, SST	4
111394-00	**4 Hole (SM) Hardware Package**	1
100263-00	3/8" x 2 3/4" Expansion Anchor	4
100327-00	3/8" Standard Hex Nut, SST	4
100362-00	3/8" Flat Washer, SST	4

SM = Surface Mount
DB = Direct Bury

Specifications

Deck Ramp Ext.: Flange formed from 11 GA (.120") sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 5/8" x 15 3/4" x 47". Finish: TenderTuff, color specified.

Support (DB): Weldment comprised of 1.660" O.D. RS20 (.085"-.095" wall) galvanized steel tubing and 1 3/4" x 1 3/4" x 1/8" HR angle. Finish: ProShield, color specified.

Curb: Permalene, color specified.

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).

Installation Time: Approx. 1 3/4 man hours (DB)
Approx. 1 1/2 man hours (SM)

Weight: 50 lbs. (DB)
44 lbs. (SM) 12" Deck
45 lbs. (SM) 16" Deck

Concrete: 2.62 cu. ft. (DB)

Fall Height: Deck Height

Installation Instructions

1) **(Direct Bury)** Dig footings as shown. Refer to the Plan View/Footing Layout.

2) Fasten hanger clamp assemblies to posts. Refer to Site Plan for deck height.

3) Lift deck ramp extension into position, lining up studs underneath deck ramp extension with deck hanger clamps as shown. Attach with 3/8" flat washers and 3/8" hex patch nuts.

4) Attach curbs to deck ramp extension, using 3/8" x 7/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" flange nuts w/pin.

5) Attach deck mount spacer and support to deck ramp extension, using 3/8" x 1 3/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to Detail.

6) Level deck and plumb posts. Install 1/4" x 5/8" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.

7) **(Direct Bury)** Pour concrete footings per the Direct Bury Detail. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure.

   (Surface Mount) With support plumb, drill 3" deep holes into concrete slab through holes in support plates, use a 3/8" masonry bit and 3/8" hammer drill. Tap 3/8" x 2 3/4" expansion anchors into holes and secure using 3/8" standard hex nuts with 3/8" flat washers. Refer to the Surface Mount Detail.

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

Specifications are subject to change without notice.

Eco #0101346 Document 24598500 replaces 18278300. Longer screws added to hardware package.

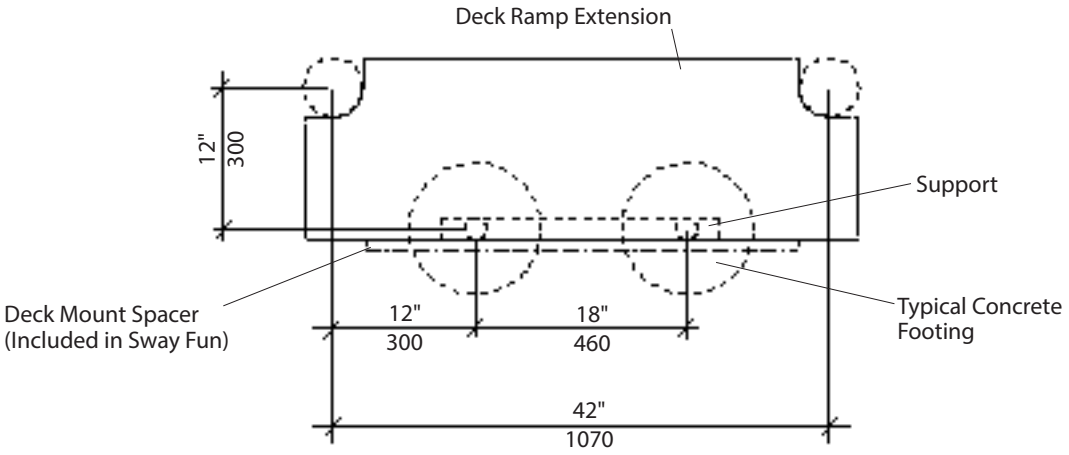
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SAFETY NOTE

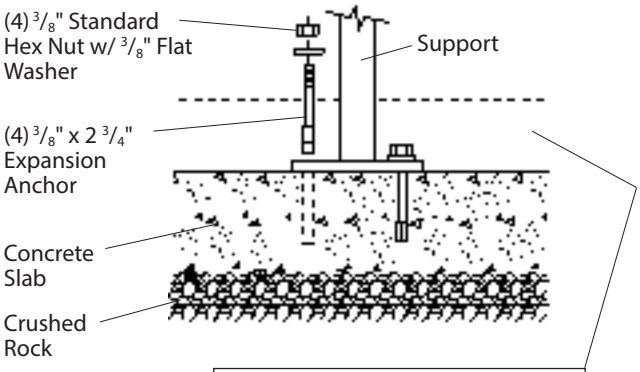
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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PLAN VIEW/FOOTING LAYOUT

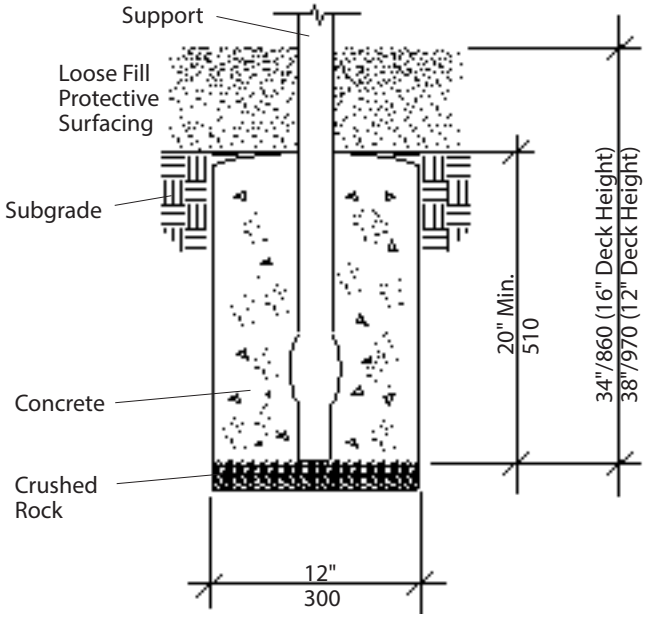


DETAIL
SURFACE MOUNT



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

DETAIL
DIRECT BURY



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171539 Deck Ramp Extension

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Document #24598500

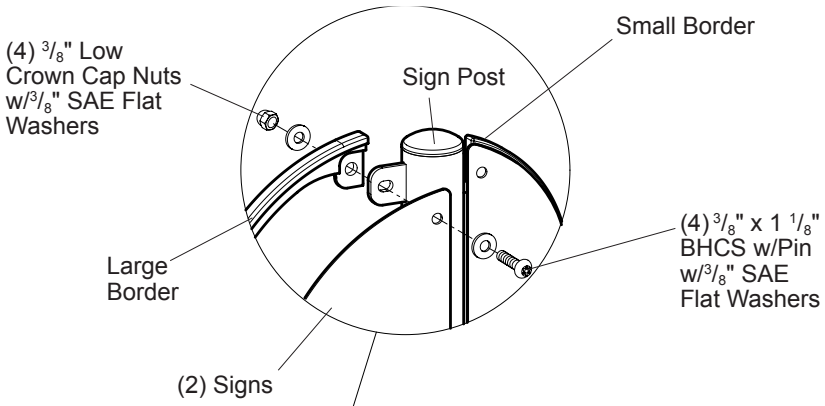
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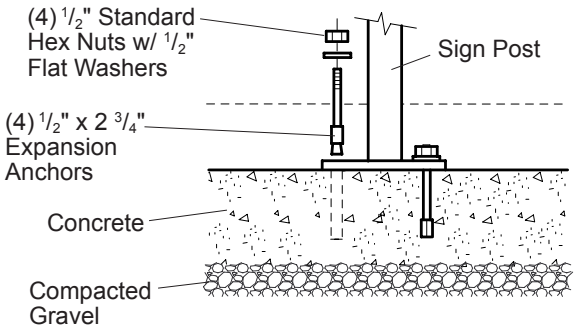
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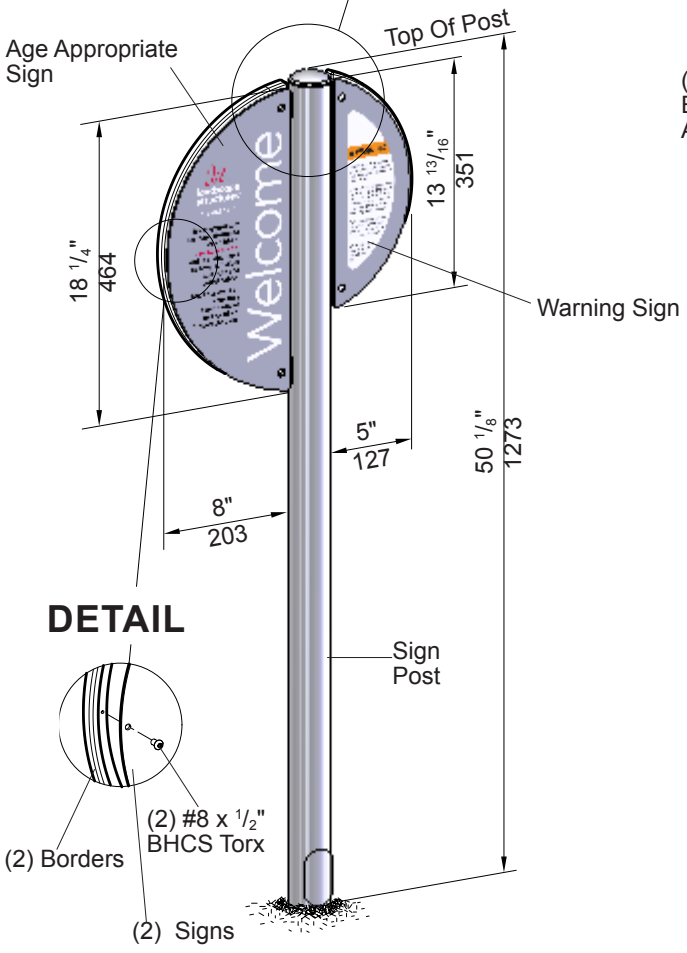
21325600

DETAIL
SIGN ATTACHMENT



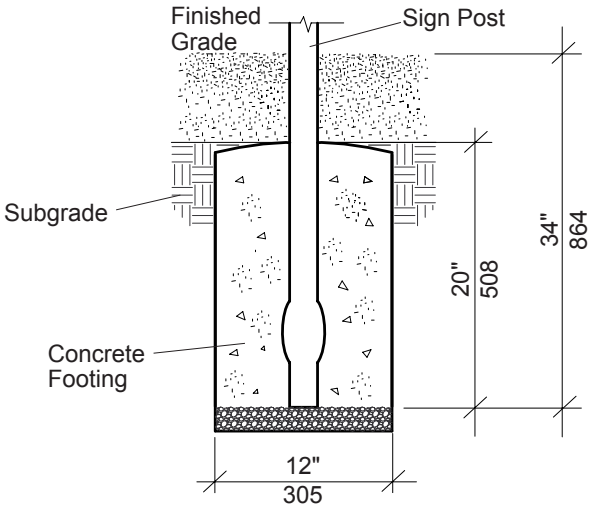
DETAIL
SURFACE MOUNT





DETAIL

DETAIL
DIRECT BURY FOOTING



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

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Welcome Sign

Parts List

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

DB = Direct Bury
SM = Surface Mount
*** = Quantity Determined By Your Order**

Specifications

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

Border: Permalene, black in color.

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

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

Installation Time: **(DB)** Approx. 1 man hour
(SM) Approx. $^{1}/_{2}$ man hour
Concrete Req: Approx. 1.31 cu. ft.
Weight: **(DB)** - 24 lbs.
(SM) - 27 lbs.

Installation Instructions

Direct Bury

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

Surface Mount

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

Specifications are subject to change without notice.

ECO 0100730 Document 22074200 replaces 21325600. Replaced signs.

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PROJECT:

LOCATION:

BUILDING TYPE: SQR-16

ROOF TYPE: MULTI-RIB

BUILDING NUMBER:

ORDER NUMBER:

QUOTE NUMBER:



DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2	STRUCTURAL FRAMING PLAN
3	COLUMN LAYOUT

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USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

CERTIFICATES:
MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 21-0819.13
PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:
CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR 02008-14
AISC APPROVED FABRICATOR C-00018751

MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653

GENERAL NOTES:
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. THE MANUFACTURER MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, THE MANUFACTURER MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

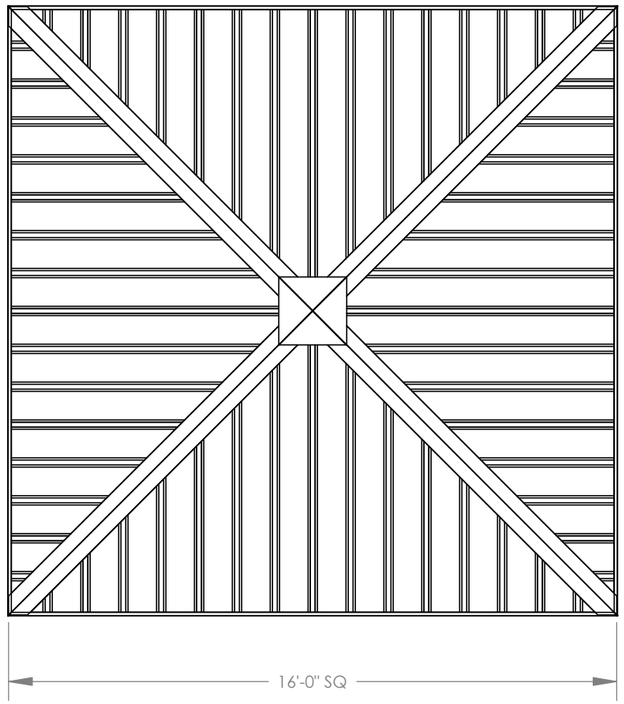
FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

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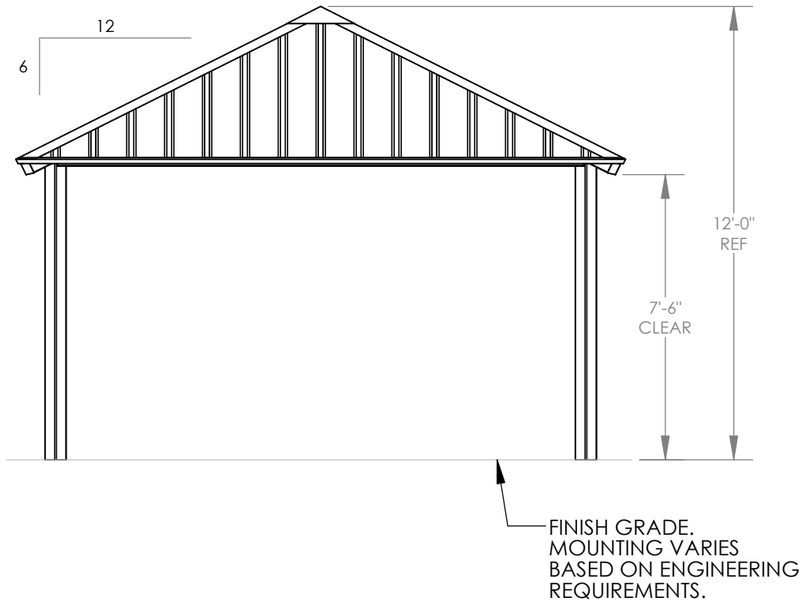
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SCALE: 1:48
DRAWN BY: chris.lisac
PRINT DATE: 12/28/2023
JOB NO:
CAD MODEL: SQR-16
PROJECT:
PROJECT LOCATION:
DRAWING: COVER SHEET
SHEET CS

GENERAL ROOF NOTES:

1. METAL ROOFING:
   - 24 GAUGE
   - GALVALUME COATED
   - KYNAR 500 PAINTED
2. TRIM COLOR MATCHES ROOF
3. SEE POLIGON.COM FOR COLOR OPTIONS







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DRAWING: ARCHITECTURAL ELEVATIONS

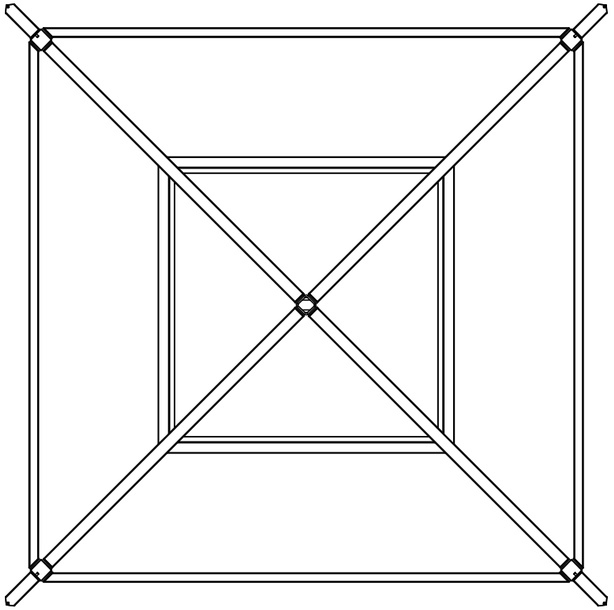
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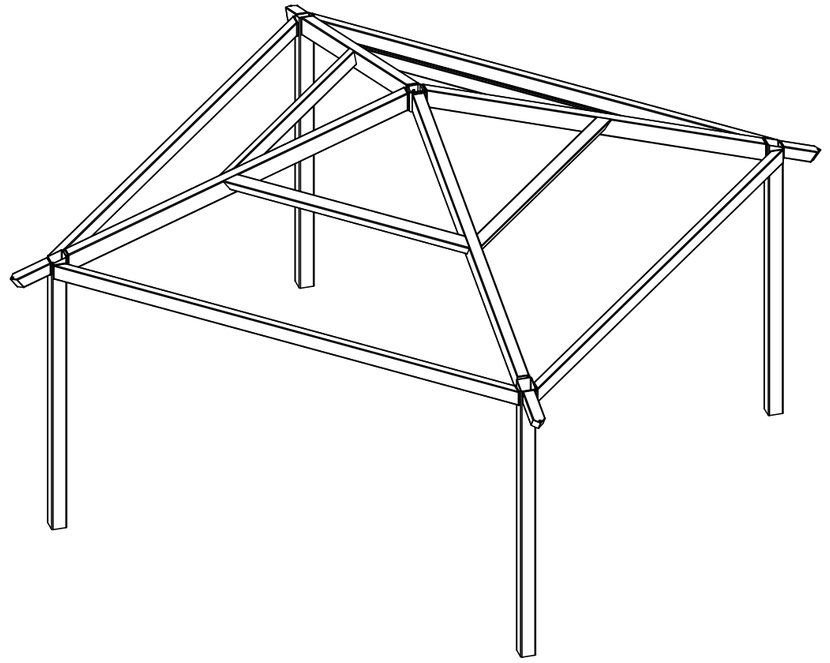
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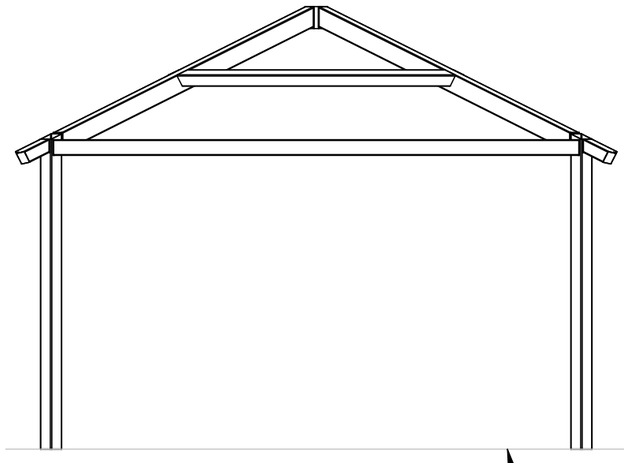
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SHEET 1







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DRAWING:
STRUCTURAL FRAMING PLAN

SCALE:
1:48

REV LEVEL:
A

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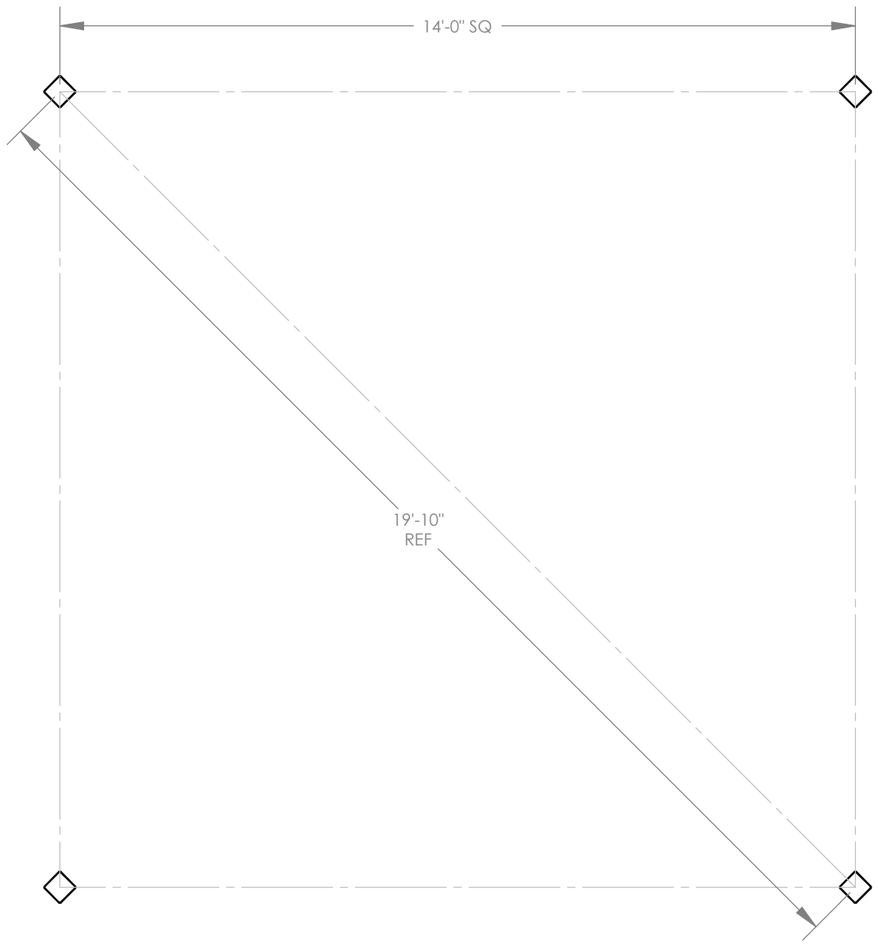
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SHEET
2

BASEPLATE NOTES:

1. POLIGON ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.
2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.



STOP!!
NOT FOR CONSTRUCTION

USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

DRAWING:
COLUMN LAYOUT

SCALE:
1:32

REV LEVEL:
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FRAME COLOR: SURREY BEIGE
ROOF COLOR: EVERGREEN

COLORS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOR OTHER COLOR SELECTIONS, PLEASE SUBMIT AN E1 DRAWING REQUEST.

SQR-16

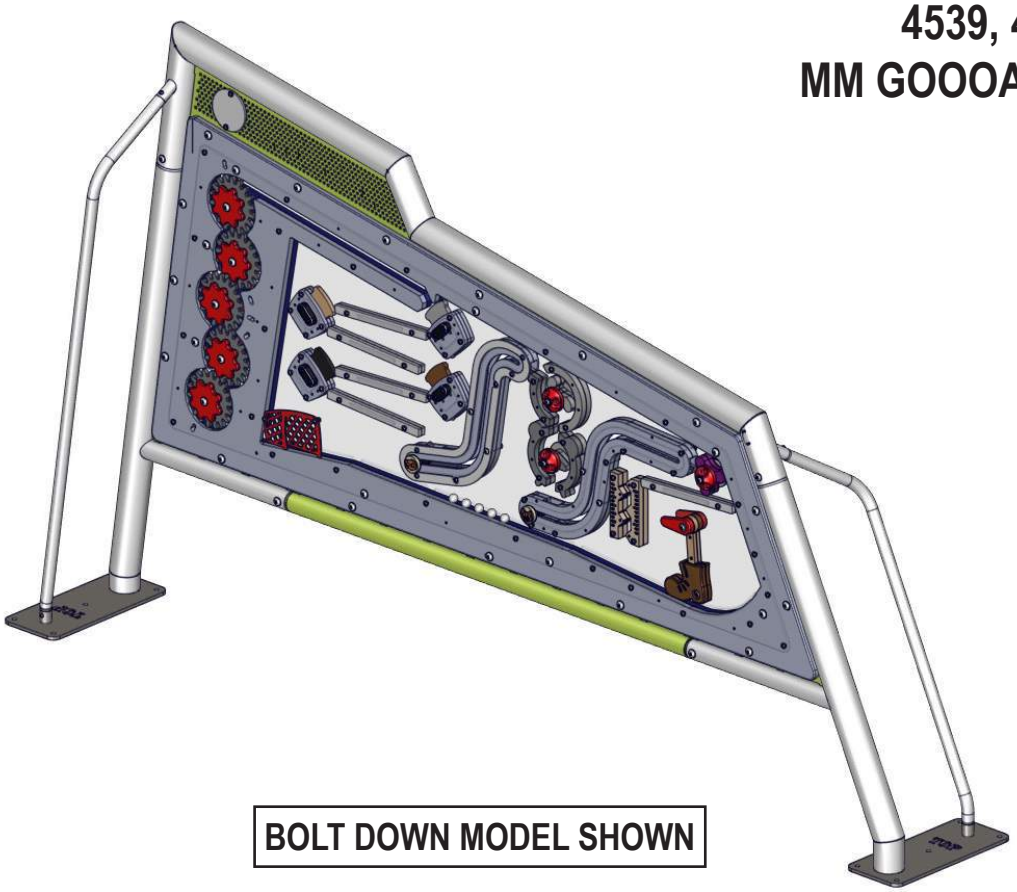
Miracle

Installation Guide

Miracle Machines - GOOOAAALLL

IMPORTANT! Prior to installation of any components, refer to the "Owner/Operator Manual". This manual will provide important information pertaining to site preparation, footings, system stabilization and other necessary information vital to the success of your installation.

4539, 4539BD
MM GOOOAAALLL



BOLT DOWN MODEL SHOWN

Note: An (*) by a part number (Code) indicates: Color Code Required.

TOOLS AND EQUIPMENT REQUIRED

Refer to "Installations 101"

1. Concrete for footings, wheelbarrow or mixer, 5 gallon bucket, water supply
2. Digging equipment for footings (spade shovel, post hole digger, auger)
3. 2 x 8's or other wood, nails, hammer to construct frame for concrete footing assembly
4. Tape measure and level
5. Allen and 6-lobe wrenches or bits, socket set, screwdrivers
6. For installation in concrete slabs: concrete saw
7. Adult installers - 2 minimum

MM GOOOAAALLL

Miracle Machines - GOOOAAALLL

MM GOOOAAALLL Model 4539		
CODE	DESCRIPTION	QTY
ZZM0980*	MM-HOW TO SCORE A GOAL PAINT/PLASTIC	1
116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL	1
116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT	1
994990	PARTS CARTON - 2-12 LABEL	1
994166	PARTS CARTON 418-162	1

MM-HOW TO SCORE A GOAL PAINT/PLASTIC ZZM0980*		
CODE	DESCRIPTION	QTY
MMA0001	MREC MACHINES GOOOAAALLL	1
AFR2928	FRAME - 8.00" X 19.00" X 27.50"	2
BAE0600	1" O.D. X .437" I.D. STAINLESS STEEL FLAT WASHER	16
BAE0666	BOLT - 3/8-16 X 1.25" BUTTONHEAD - STAINLESS STEEL	8
BAE0620	NUT - 3/8-16 LOCK W/NYLON CAP	8
BAE0922	TOOL - TT 45 L WRENCH	1

PARTS CARTON - 2-12 LABEL 994990		
CODE	DESCRIPTION	QTY
116036	LABEL - AGES 2-12 YEARS MREC	1

PARTS CARTON 418-162 994166		
CODE	DESCRIPTION	QTY
116021	LABEL MIRACLE ID - GENERIC	1
116022	LABEL WARNING - PLAYGROUND - ENGLISH	1
116099	LABEL, PLAY SMART RULES	1

Miracle Machines - GOOOAAALLL

MM GOOOAAALLL BD Model 4539BD		
CODE	DESCRIPTION	QTY
ZZM0980S*	MM-HOW TO SCORE A GOAL PAINT/PLSTC SFMT	1
930056	PC F/MM 4536BD, 4538BD, 4539BD	1
994990	PARTS CARTON - 2-12 LABEL	1
994166	PARTS CARTON 418-162	1
116048	LABEL, 2" X 2" WHITE POLYESTER THERMAL	1
116049	LAMINATE, CLEAR, 2" X 2" W/PERMANENT	1

*MM-HOW TO SCORE A GOAL PAINT/PLSTC SFMT ZZM0980S**		
CODE	DESCRIPTION	QTY
MMA0001	MREC MACHINES GOOOAAALLL	1

PC F/MM 4536BD, 4538BD, 4539BD 930056		
CODE	DESCRIPTION	QTY
104422	3/8" X 3-3/4" WEDGE ANCHOR 18-8 SS	10

PARTS CARTON - 2-12 LABEL 994990		
CODE	DESCRIPTION	QTY
116036	LABEL - AGES 2-12 YEARS MREC	1

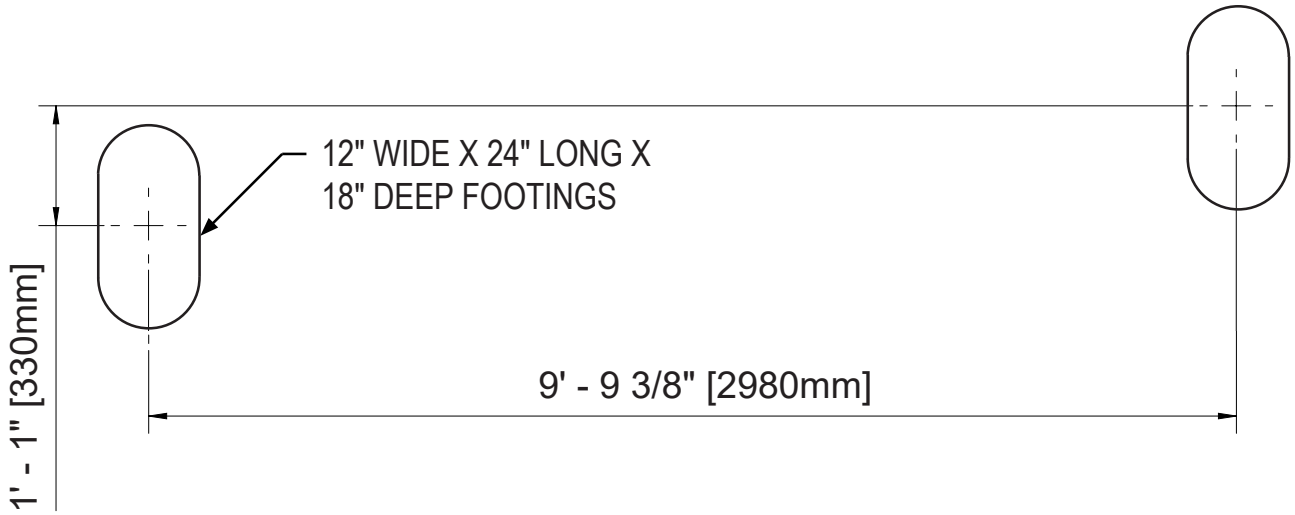
PARTS CARTON 418-162 994166		
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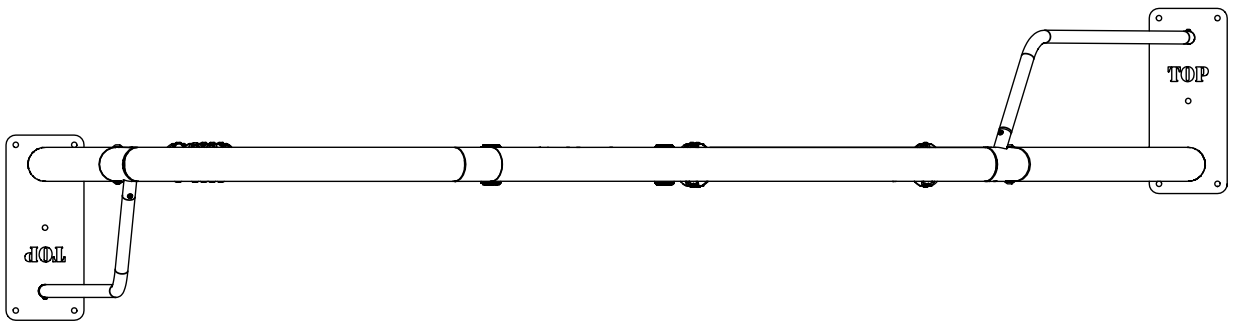
MM GOOOAAALLL

Miracle Machines - GOOOAAALLL

FOOTING LAYOUT

Footing Layout - *Same for Bolt Down and Inground.*

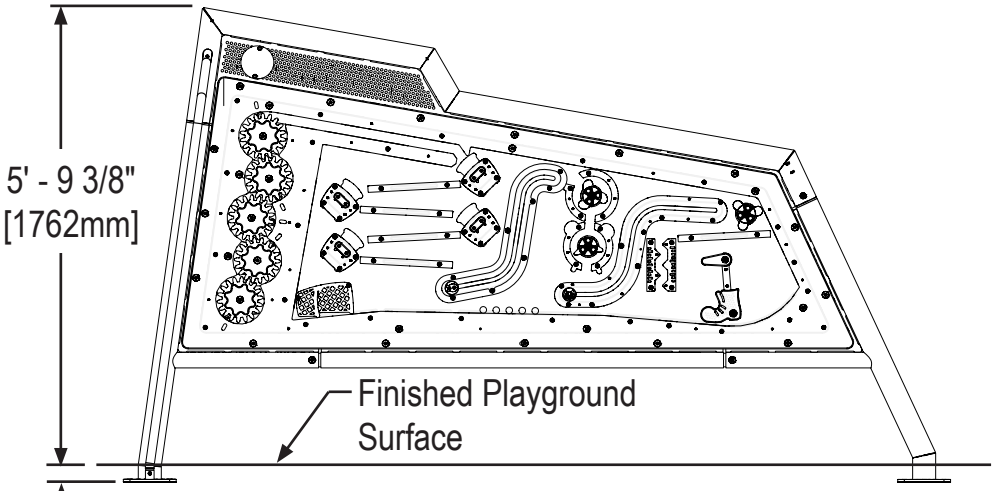




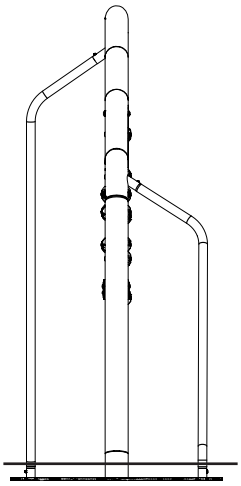
TOP VIEW

4539, 4539BD

Miracle Machines - GOOOAAALLL

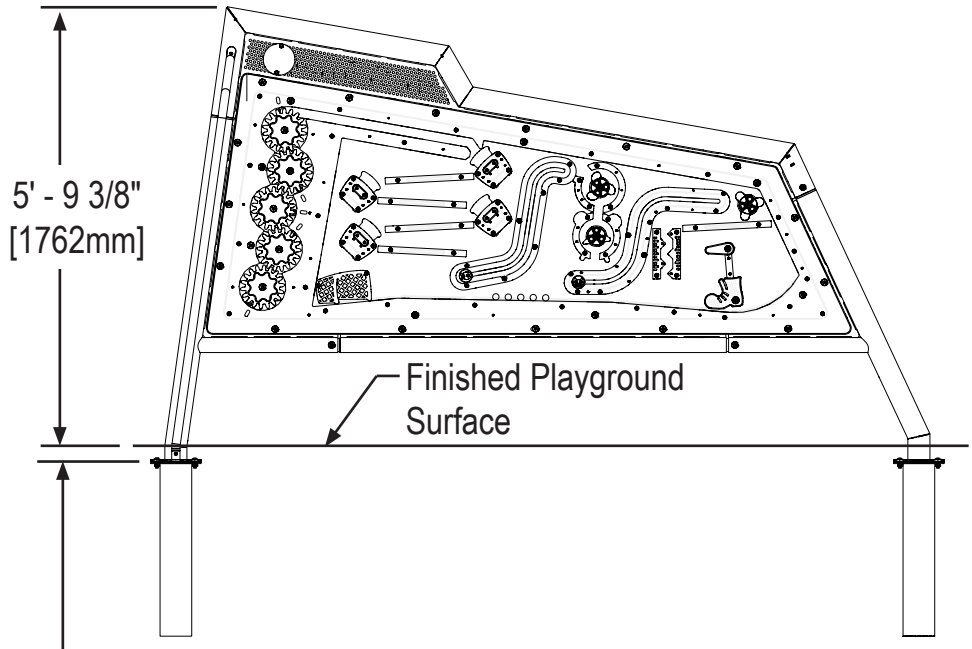


FRONT VIEW (BOLT DOWN)

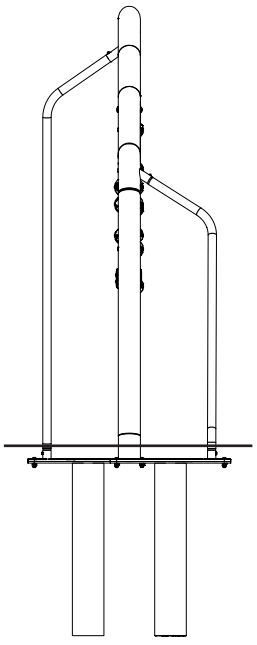


SIDE VIEW (BOLT DOWN)

NOTE: dimension is to bottom of plate on the playevent.



FRONT VIEW (INGROUND)

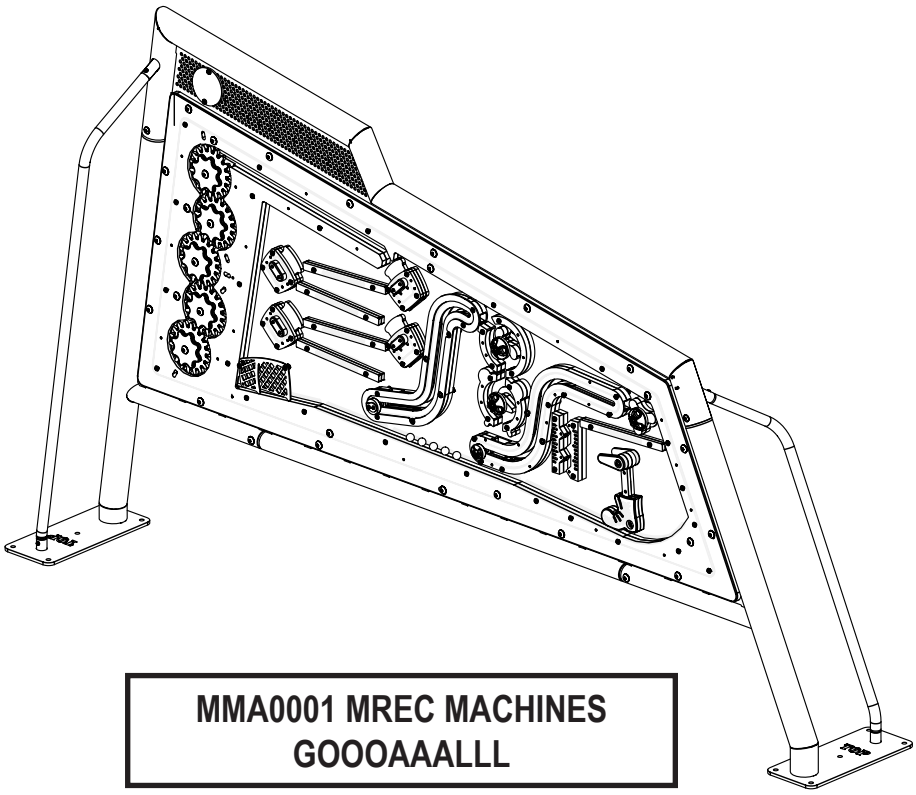


SIDE VIEW (INGROUND)

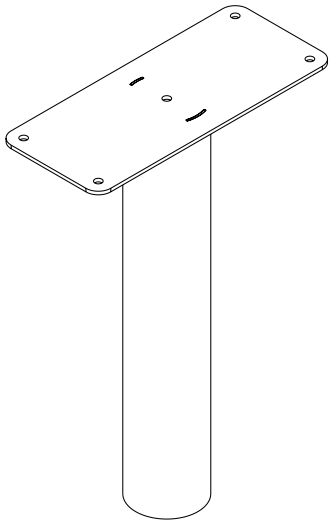
MM GOOOAAALLL

Miracle Machines - GOOOAAALLL

PARTS IDENTIFICATION



MMA0001 MREC MACHINES
GOOOAAALLL



AFR2928 FRAME - 8.00" X 19.00" X 27.50"
(for inground only)

Miracle Machines - GOOOAAALLL

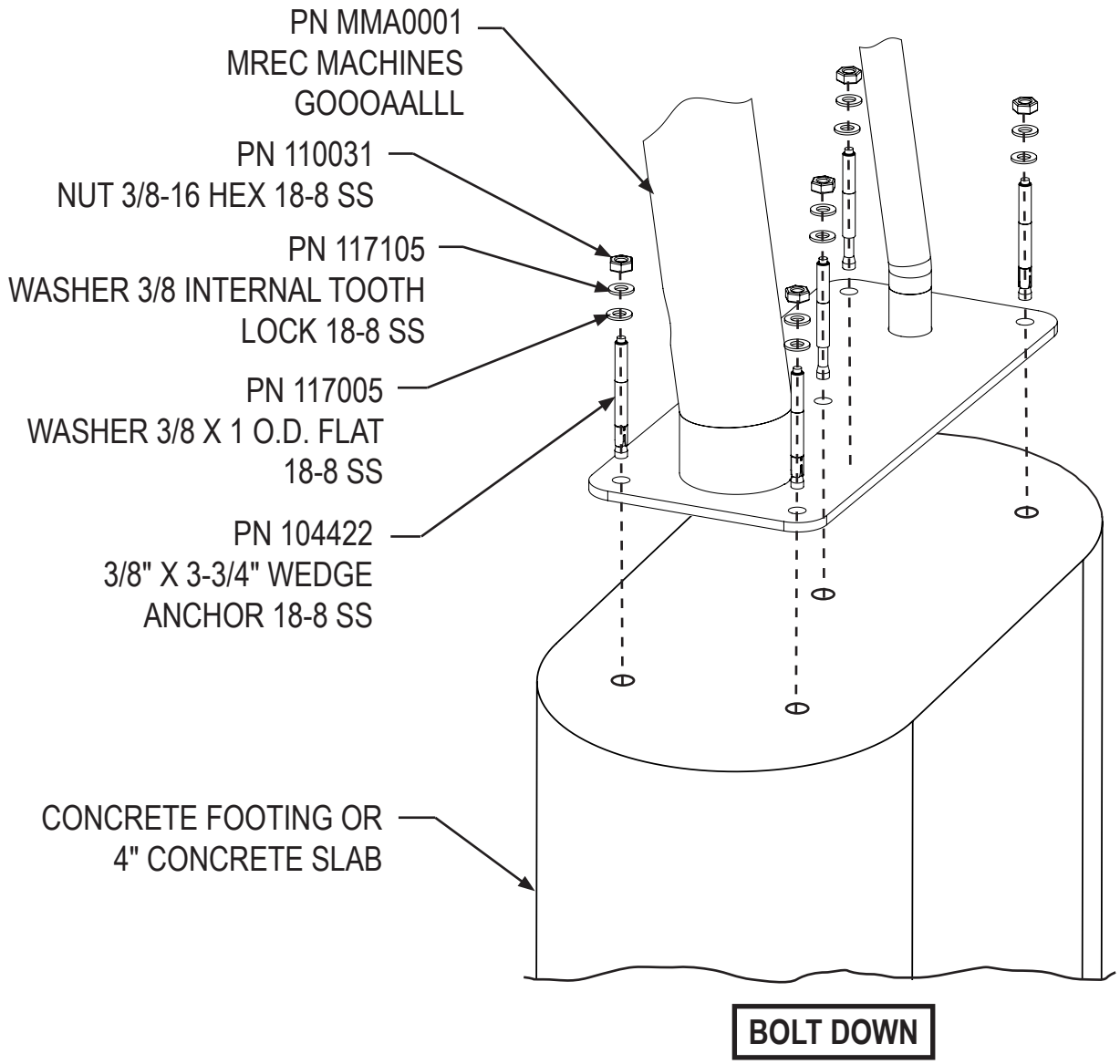
STEP 1 DIG FOOTINGS

1a. Refer to *Footing Layout* and Construction Drawings for surface mount and inground footing criteria for installation.

Note: Do not pour concrete for footings until ALL components in system have been installed per instructions, braced in position, leveled and plumbed.

STEP 2 PLACE ASSEMBLY IN FOOTINGS

2a. ***For bolt down version,*** place assembly in footing location and use five anchor bolts per footing to attach the rectangular footing plates to the concrete. Bolt down footing may be attached to either a concrete footing (shown below) or a four inch thick concrete slab.

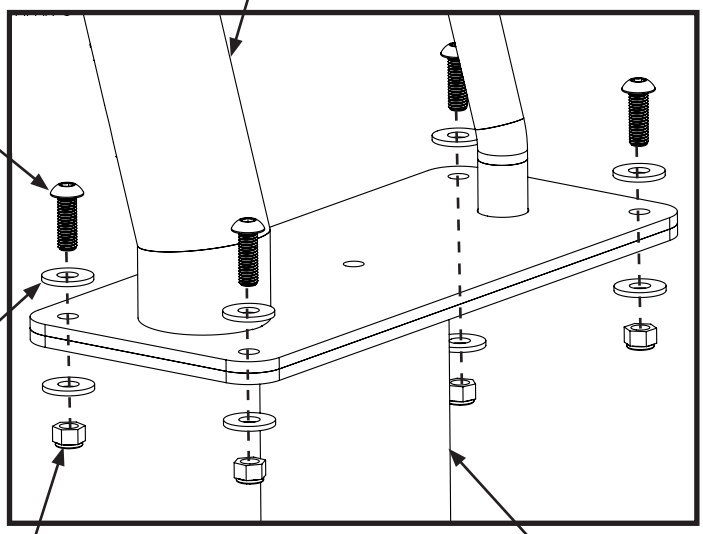


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STEP 2 PLACE ASSEMBLY IN FOOTINGS (continued)

2b. ***For inground version***, attach the inground footings PN AFR2928 to the rectangular plates in four places on each plate with hardware specified below. Place assembly in footing location and block up to correct height. Do not pour concrete at this time.



INGROUND

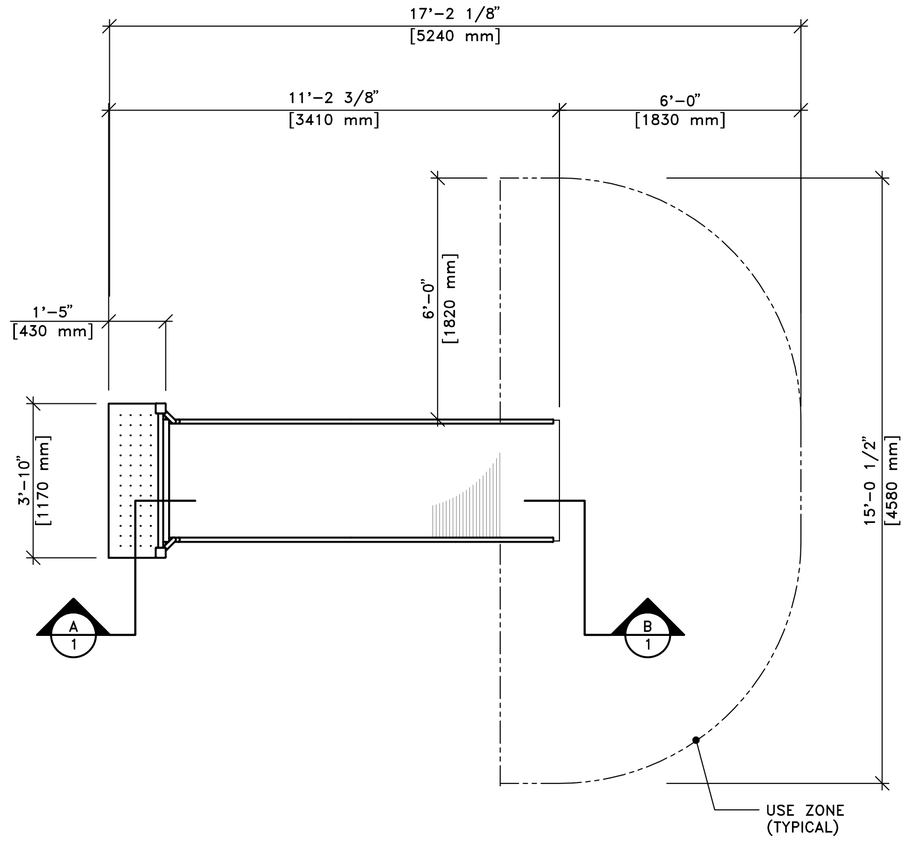
FINAL STEP

Proceed with ***Final Assembly*** installation:

A. Tighten all hardware.

B. Level, brace and plumb legs per footing layout. Pour and cure concrete; back fill and install ground cover.

4539, 4539BD

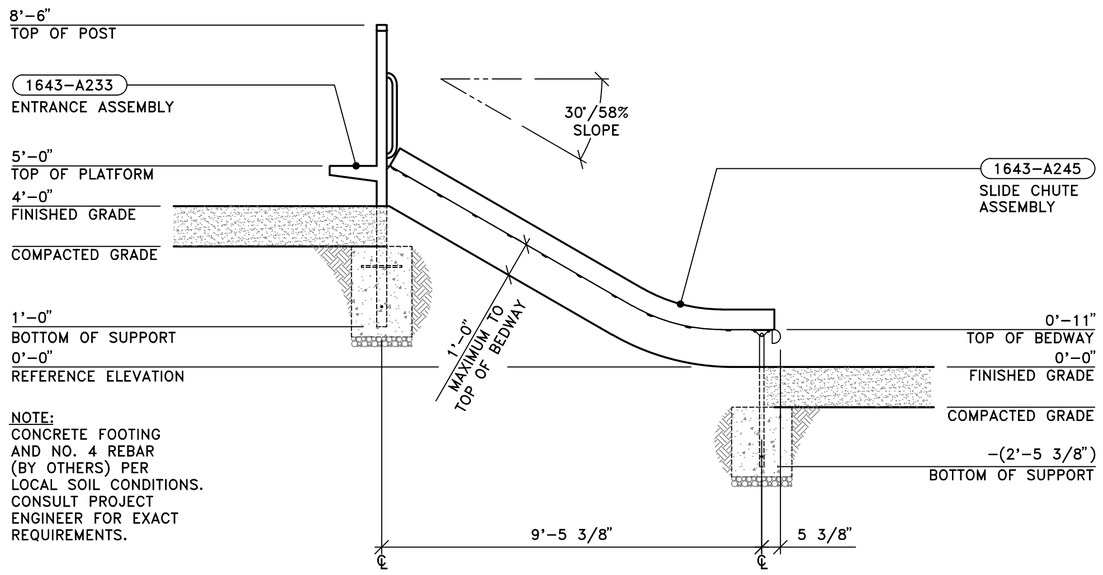


PLAN VIEW
SCALE: 3/8"=1'-0"

INSTALLATION INSTRUCTIONS:

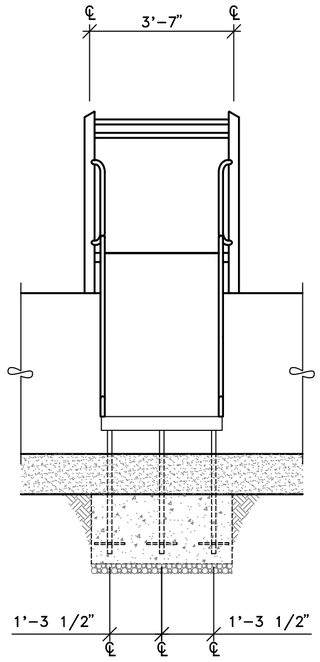
1. DETERMINE FOOTING LOCATIONS AND DIG HOLES REQUIRED.
2. INSTALL ENTRANCE ASSEMBLY PER DIMENSIONS SHOWN.
3. PRE-ASSEMBLE CONNECTION PLATE, EXIT CONNECTION BRACKET AND SUPPORT PIPES TO SLIDE ASSEMBLY PER DETAILS A/1 AND B/1.
4. BRACE ASSEMBLED SLIDE IN PLACE AND CONNECT TO ENTRANCE ASSEMBLY AS SHOWN IN DETAIL A/1.
5. CHECK TO SEE THAT ALL CONNECTIONS ARE FLUSH AND TIGHT AND THE SUPPORT ARE BRACED SECURELY IN THE FOOTING HOLES, PER DIMENSIONS SHOWN. THEN POUR CONCRETE.

   NOTE: KEEP CHILDREN OFF APPARATUS UNTIL THE ASSEMBLY IS COMPLETE AND THE CONCRETE IS CURED.
6. AFTER CONCRETE CURES, REMOVE BRACING AND BACK FILL FOOTING HOLES.



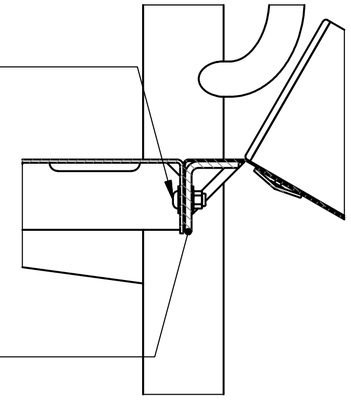
NOTE:
CONCRETE FOOTING AND NO. 4 REBAR (BY OTHERS) PER LOCAL SOIL CONDITIONS. CONSULT PROJECT ENGINEER FOR EXACT REQUIREMENTS.

SIDE ELEVATION
SCALE: 3/8"=1'-0"



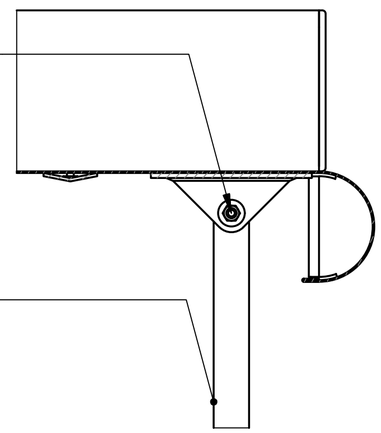
FRONT ELEVATION
SCALE: 3/8"=1'-0"

1	ENTRANCE SUPPORT PLATE TO SLIDE CHUTE ASSEMBLY TO ENTRANCE ASSEMBLY	
4	3/8"-16 x 1" BUTTON HEAD HEX SOCKET CAP SCREW	
8	7/16" I.D. CUT WASHER	
4	3/8"-16 NYLON INSERT LOCK NUT	



A/1 SECTION DETAIL
SCALE: 3"=1'-0"

3	SUPPORT PIPES TO SLIDE CHUTE ASSEMBLY	
1	3/8"-16 x 2 1/4" CARRIAGE BOLT	
1	7/16" I.D. CUT WASHER	
1	3/8"-16 HEX NUT (TRIM AND PEEN THREADS)	



B/1 SECTION DETAIL
SCALE: 3"=1'-0"

⚠WARNING
SEE IMPORTANT SAFETY NOTES AND MAINTENANCE INSTRUCTIONS ON DRAWING NO. E-1000-L13

Date	Revision	By
△		
△		
△		
△		

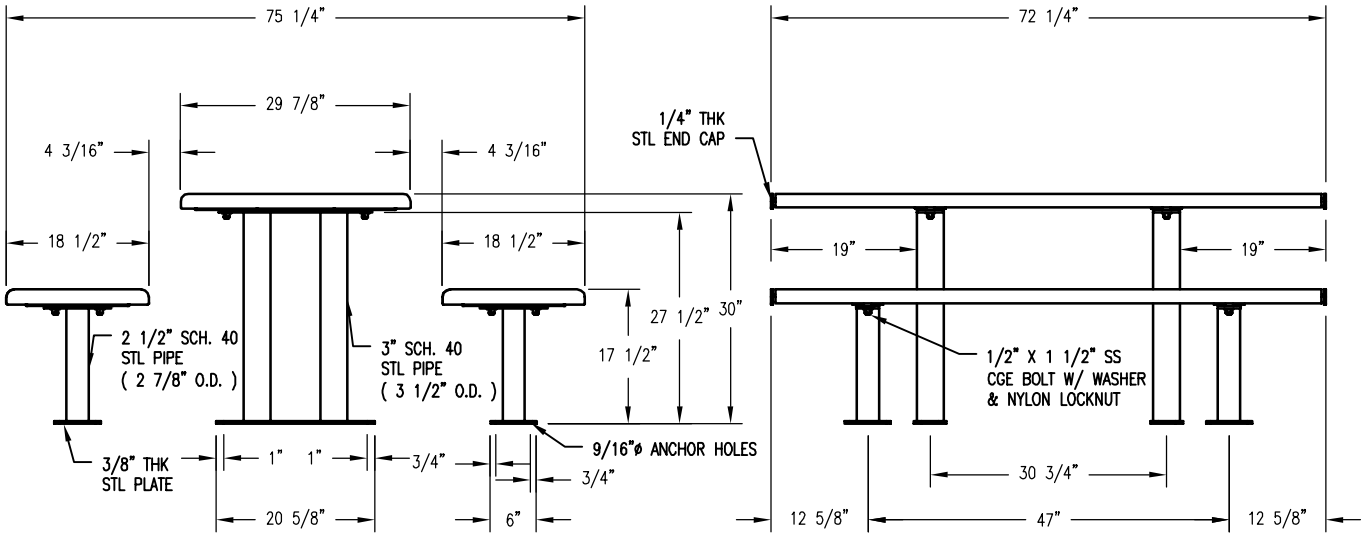
Scale			
NOTED	Drawn by:	GH	3-29-19
	Ck'd by:	RHL	3-29-19

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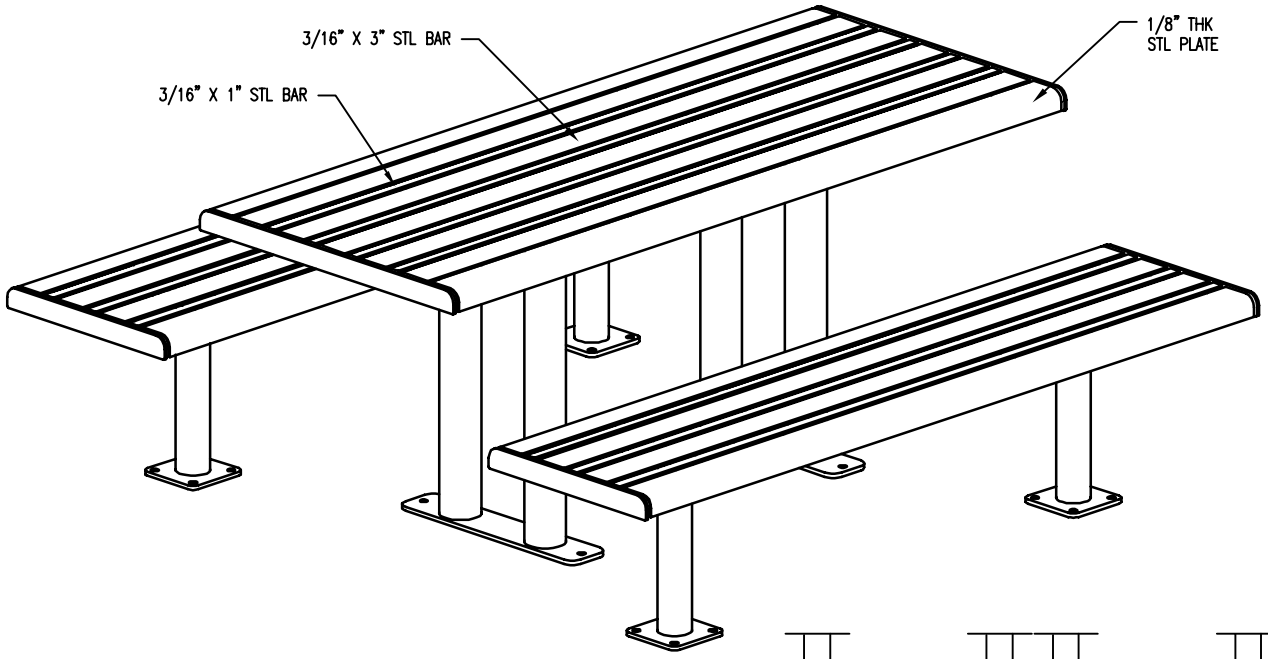
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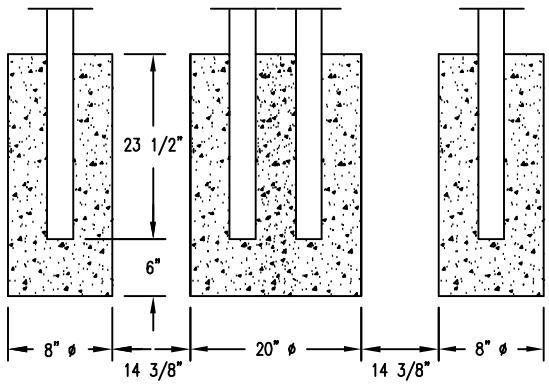
Title:
TIMBERFORM
MODEL NO. 1643-51-EMB
EMBANKMENT WIDE SLIDE CHUTE
(STAINLESS STEEL BEDWAY, 6" RAILS)

Drawing No.	Sheet
E-1643-51-EMB	1 of 1



☐ S-2 SURFACE





☐ S-1 EMBEDMENT

NOTES

1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.

2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR S-2 SURFACE MOUNT.

DuMor, inc.	TABLE	DATE DRAWN : 11/09/17 DRAWN BY : RDH DATE REV. : REV. BY :	REV. A	DRAWING NUMBER 298-60-2HS	SHEET 1 OF 2

NOTES:

1.) DURING ASSEMBLY PROCEDURE; DO NOT COMPLETELY TIGHTEN HARDWARE.
2.) THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING.
3.) UPON COMPLETION OF ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.
4.) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D

3/4" WRENCH
1/2" MASONRY DRILL BIT
DRILL

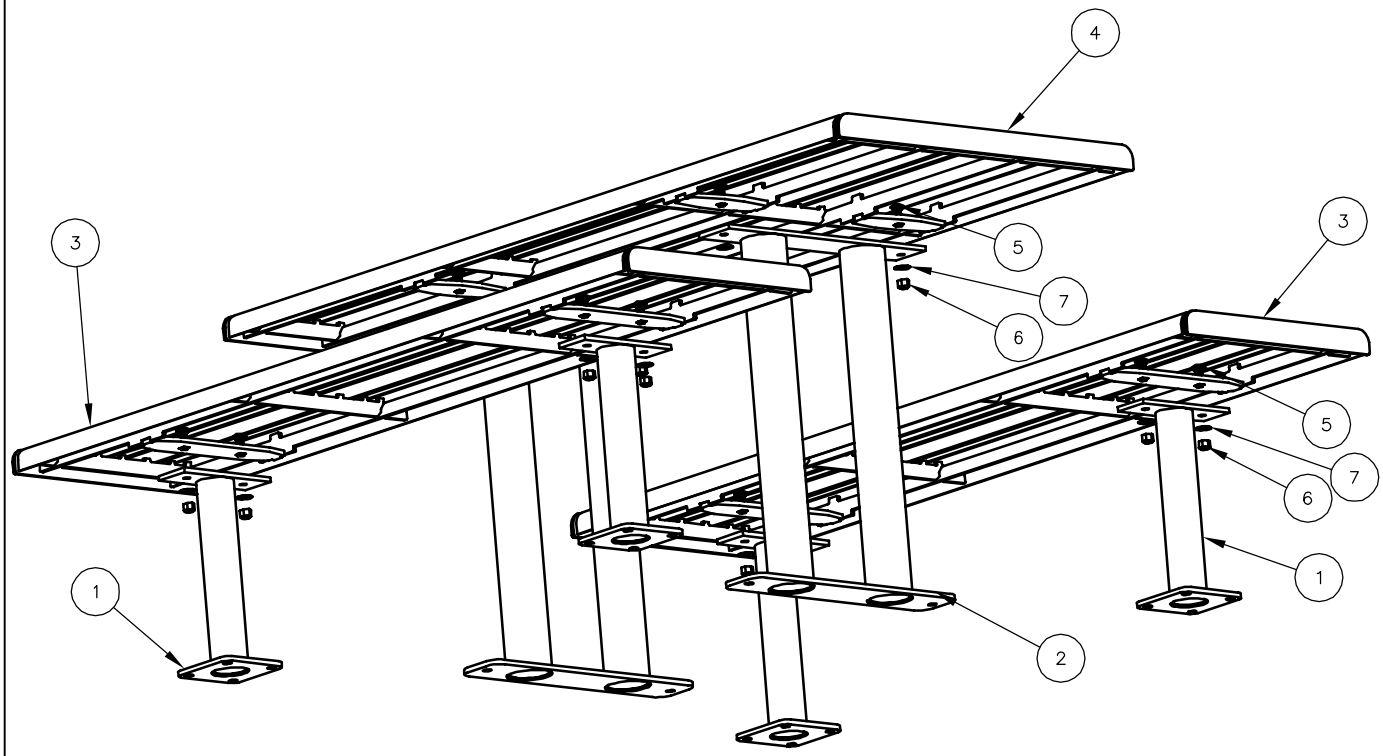
KITS PROVIDED

ITEM	QTY	PART NO	DESCRIPTION
8	5	K-ANC0860-4	1/2" X 3 3/4" SS ANCHOR KIT (4PC)
9	3	K-CG0824-4L	1/2" CGE BOLT HARDWARE KIT (4)

PARTS LIST

ITEM	QTY	PART NO	DESCRIPTION
1	4	0-296-00-02/S-2	STL PEDESTAL SEAT SUPPORT, PLATES
2	2	0-298-00-01/S-2	STL TABLE SUPPORT, PLATES
3	2	0-298-60HS-04	6' STL SEAT
4	1	0-298-60HS-2-03	6' STL ACCESSIBLE TABLE TOP, BOTH ENDS
5	12	1-11-042	1/2" X 1 1/2" SS CGE BOLT
6	12	1-20-015	1/2" SS NYLON LOCKNUT
7	12	1-22-015	1/2" SS FLAT WASHER

(1) ATTACH TABLE TOP & SEATS TO SUPPORTS.



DuMor, inc.	ASSEMBLY INSTRUCTIONS	DATE DRAWN : 11/09/17 DRAWN BY : RDH DATE REV. : REV. BY :	REV. A	DRAWING NUMBER 298-60-2HS	SHEET 2 OF 2