

CONTENTS

Sheet 1: Basic Information

Sheet 2: Bill of Materials

Sheet 3: Freestanding Attachment to Post

Sheet 4: Freestanding, In Ground Mount

Sheet 5: Freestanding, Surface Mount

Sheet 6: Freestanding, Portable Mount

Sheet 7: Wall Mount, Concrete and Brick

Sheet 8: Wall Mount, Wooden Fence

Sheet 9: Wall Mount, Chain Link Fence

INSTRUMENT INFO

Notes: A-E; C-G; or D-A

Cymbals: Anodized Aluminum

Frame: HDPE

Post: Powder Coated Steel

Mallet: Standard 80 Durometer w/ 16" Cable Length

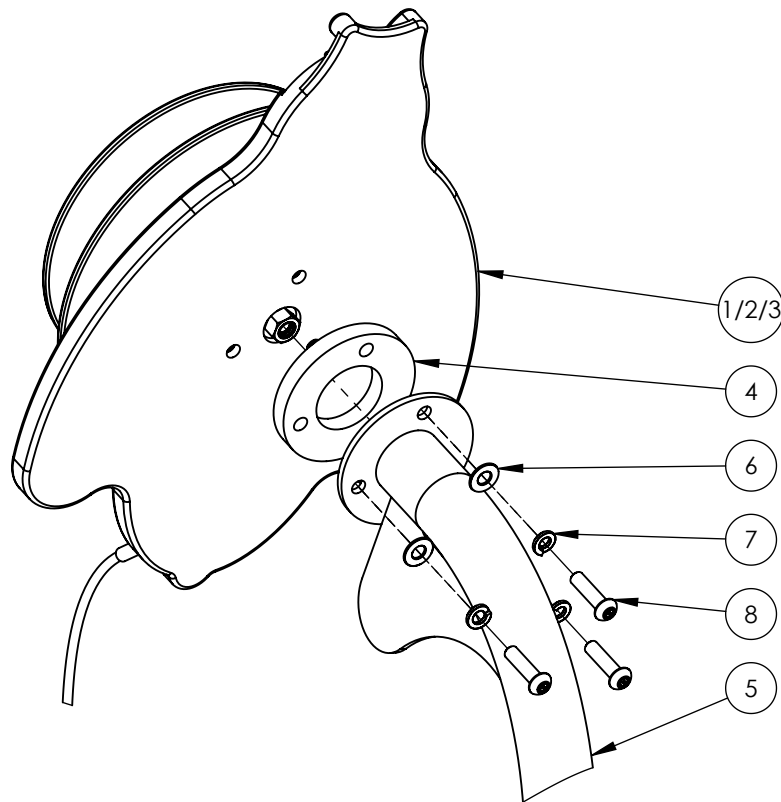


FREESTANDING										
ITEM NO.	DESCRIPTION	BEE-A-IG	BEE-C-IG	BEE-D-IG	BEE-A-SM	BEE-C-SM	BEE-D-SM	BEE-A-PM	BEE-C-PM	BEE-D-PM
1	BEE-A NOTE-FREESTANDING	1	-	-	1	-	-	1	-	-
2	BEE-C NOTE-FREESTANDING	-	1	-	-	1	-	-	1	-
3	BEE-D NOTE-FREESTANDING	-	-	1	-	-	1	-	-	1
4	BEE-FS-SPACER	1	1	1	1	1	1	1	1	1
5	MELODY BEES-STEEL POST (POWDER-COATED)	1	1	1	1	1	1	1	1	1
6	SS WASHER FOR 3/8" BOLTS	3	3	3	3	3	3	3	3	3
7	SS LOCK WASHER FOR 3/8" BOLTS	3	3	3	3	3	3	3	3	3
8	BOLT - 3/8"-16 X 1-1/2" SECURITY TORX WITH PATCH	3	3	3	3	3	3	3	3	3
9	IN GROUND STEEL POST EXTENSION (POWDER-COATED)	1	1	1	-	-	-	-	-	-
10	3/8"-16 HEX HEAD SCREW, 1"LG. SS	3	3	3	-	-	-	-	-	-
11	3/8"-16 HEX NUT, SS	3	3	3	-	-	-	3	3	3
12	3/8"-16 WEDGE EXPANSION ANCHOR, 3.75"LG. SS	-	-	-	3	3	3	-	-	-
13	35/64" HEX NUT CAP	-	-	-	3	3	3	-	-	-
14	FLOWER AND BUTTERFLY - HDPE PORTABLE STAND (1" BLACK)	-	-	-	-	-	-	1	1	1
15	3/8"-16 THUMB SCREW, 1"LG. SS	-	-	-	-	-	-	3	3	3

WALL MOUNT				
ITEM NO.	DESCRIPTION	BEE-A-WM	BEE-C-WM	BEE-D-WM
15	BEE-A NOTE-WALL MOUNT	1	-	-
16	BEE-C NOTE-WALL MOUNT	-	1	-
17	BEE-D NOTE-WALL MOUNT	-	-	1
18	BEE-HDPE BACKER-3/4" YELLOW/BLACK/YELLOW HDPE	3	3	3
19	BOLT - 3/8"-16 X 1-3/4" SECURITY TORX WITH PATCH	3	3	3
20	2-3/4" LG 1/4" SCREWS FOR CONCRETE, BRICK, AND BLOCK 410 SS	3	3	3
21	3/8" -16 BARREL NUT TORX PIN 302 STAINLESS	3	3	3
22	0.75" LG 0.385" ID 0.75" OD LDPE SPACER	3	3	3
23	0.406" ID 0.812" OD 18-8 SS SAE WASHER	3	3	3
24	0.4879" OD 0.26" ID SS SPLIT LOCK WASHER	3	3	3
25	SS LOCK WASHER FOR 3/8" BOLTS	3	3	3
26	5/8" OD 18-8 SS WASHER FOR 1/4" BOLTS	3	3	3
27	ZINC ALLOY TAPPING INSERTS FOR SOFTWOOD	3	3	3
28	BOLT - 3/8"-16 X 1-1/2" SECURITY TORX WITH PATCH	3	3	3

The following applies only to Freestanding versions of the instrument:

Using an impact driver and T45 tamper resistant Torx bit, fasten the bee frame to the post with the spacer disc in between using 3/8" flat washers, 3/8" lock washers, AND 3/8" 1-1/2" long tamper resistant Torx bolts. The bolts have thread locker pre-applied for a semi-permanent hold.



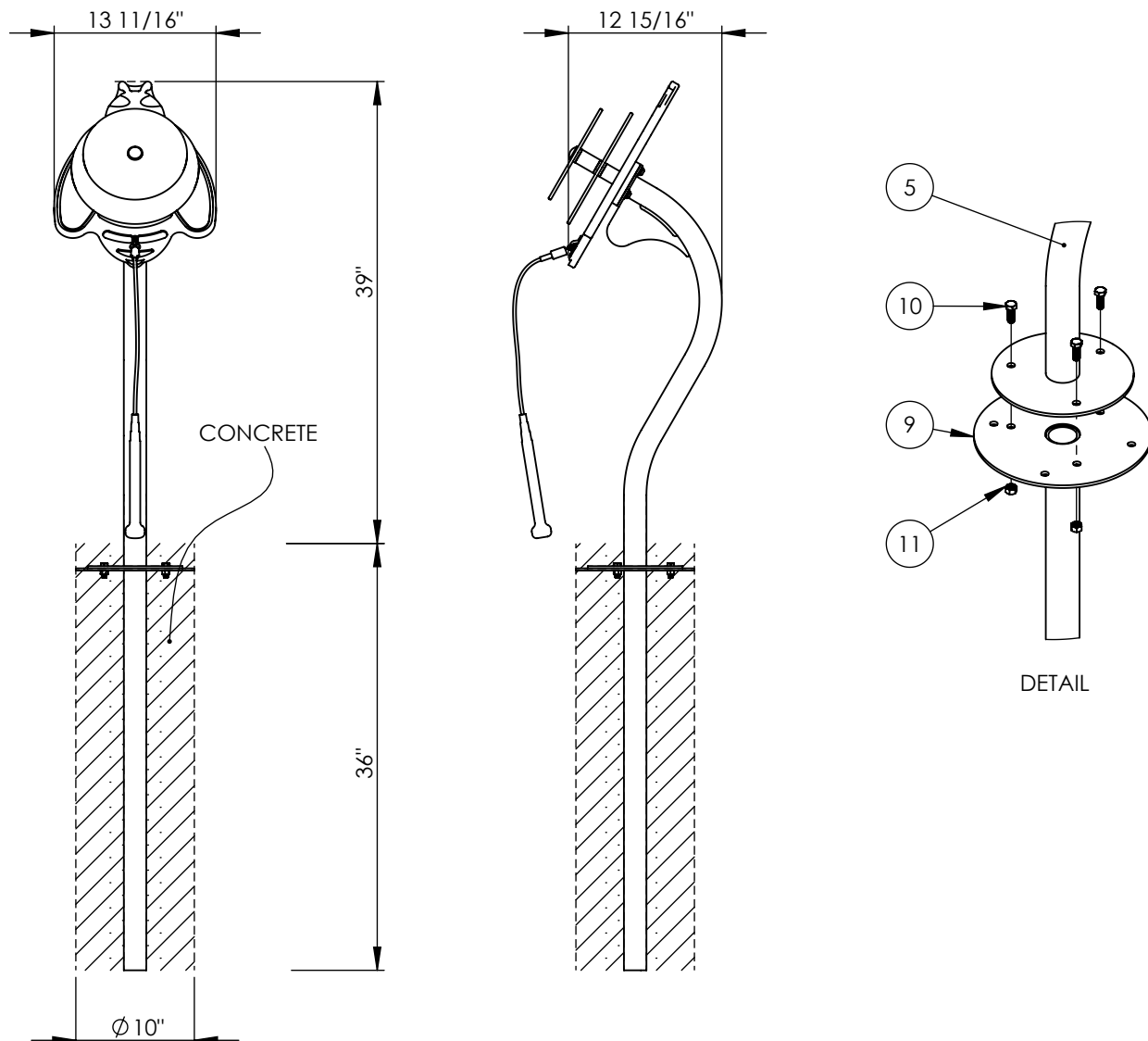
Step 1: Attach the Instrument Pre-Assembly to the In Ground Post Extension by aligning the holes on each component and fastening them together with the (3) 3/8" Hex Head Screws and the (3) 3/8"-16 Hex Nuts.

Step 2: Determine installation location. A 36" perimeter around the instrument is recommended for wheelchair accessibility. Excavate one 10" diameter hole, 36" deep, at the installation location.

Step 3: With two people, lower instrument with post extension attached into the excavated hole. Verify correct placement and levelness of the Instrument. Check for sufficient clearance around the Instrument, a 36" perimeter around the Instrument is recommended for wheelchair accessibility.

Step 4: Lastly, pour concrete around the In Ground Extension. If necessary, brace the Instrument to hold it rigid while the concrete cures. Leave to set according to the concrete manufacturers guidelines. Approximately (3) 80lb. bags will be needed.

For installations targeting compliance with ASTM F1487: Note that baseplate mounting hardware must be covered by surfacing and finished mat height must not exceed 27" in order to maintain ASTM compliance.



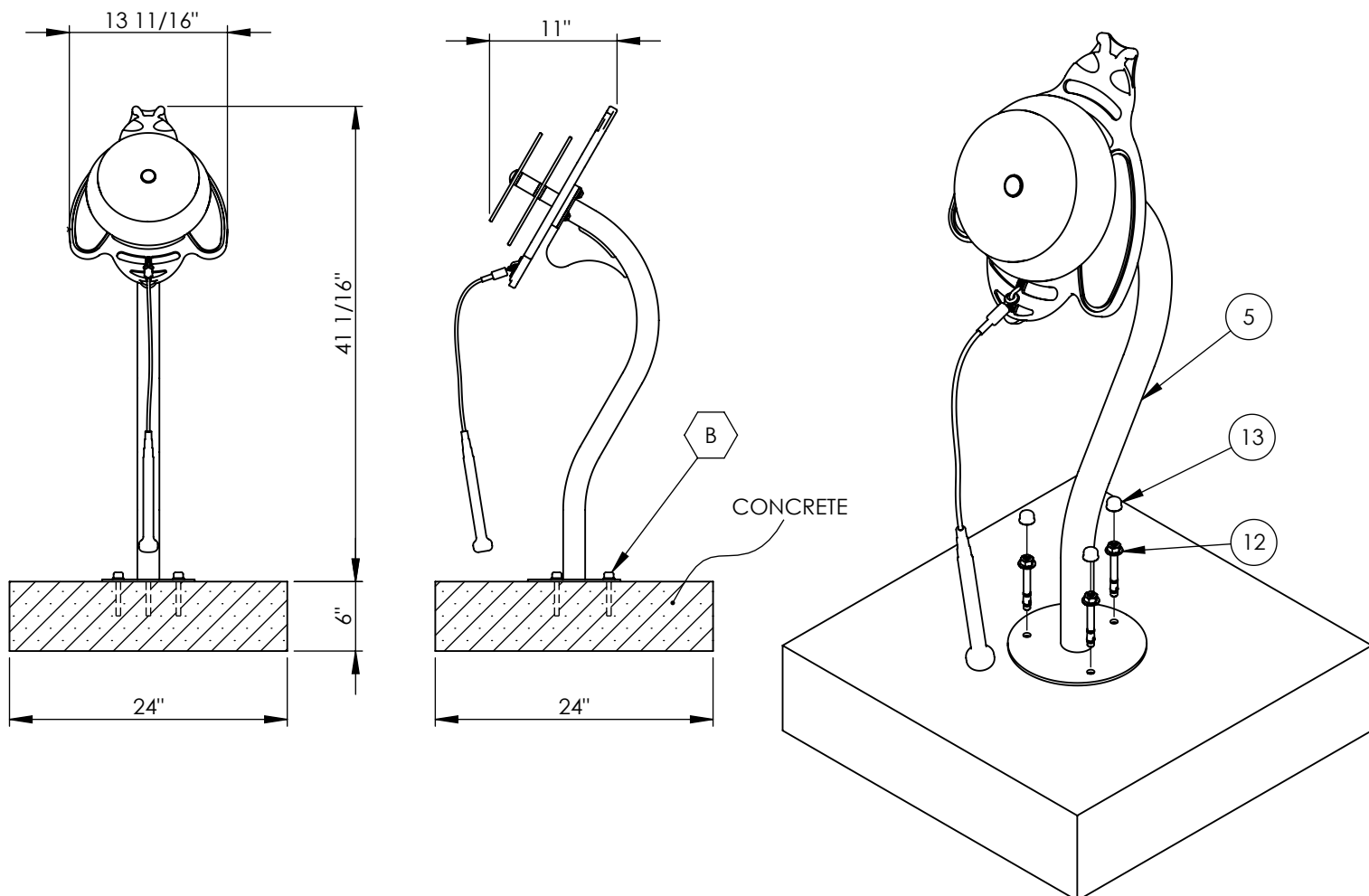
Step 1: Determine installation location. A 36" perimeter around the Instrument is recommended for wheelchair accessibility. A concrete pad measuring a minimum of 24" long x 24" wide x 6" thick is required. If an existing concrete pad is not level, steel washers can be used to act as shims (shims not provided). If a new pad is being poured, approximately (4) 80lb. bags will be needed. Allow concrete to cure per concrete manufacturers guidelines before continuing installation.

Step 2: Place the Instrument Assembly onto the concrete pad and mark the center of the holes on the base of the post. After you have made your marks, set aside the Instrument in order to drill for anchor holes. With a hammer or rotary drill, drill through concrete at marked locations. Drill to a minimum depth of 4". A 3/8" masonry drill bit will be needed.

Step 3: Place the Instrument back over the drilled out holes. Insert provided anchor bolts into aligned holes. Position anchor nut so that it is flush with the top of the bolt. Pound anchor bolts into the hole until the anchor washer is flush with the base of the post. Tighten anchor bolts until they are snug. Cover remaining bolt sections with provided nut caps.

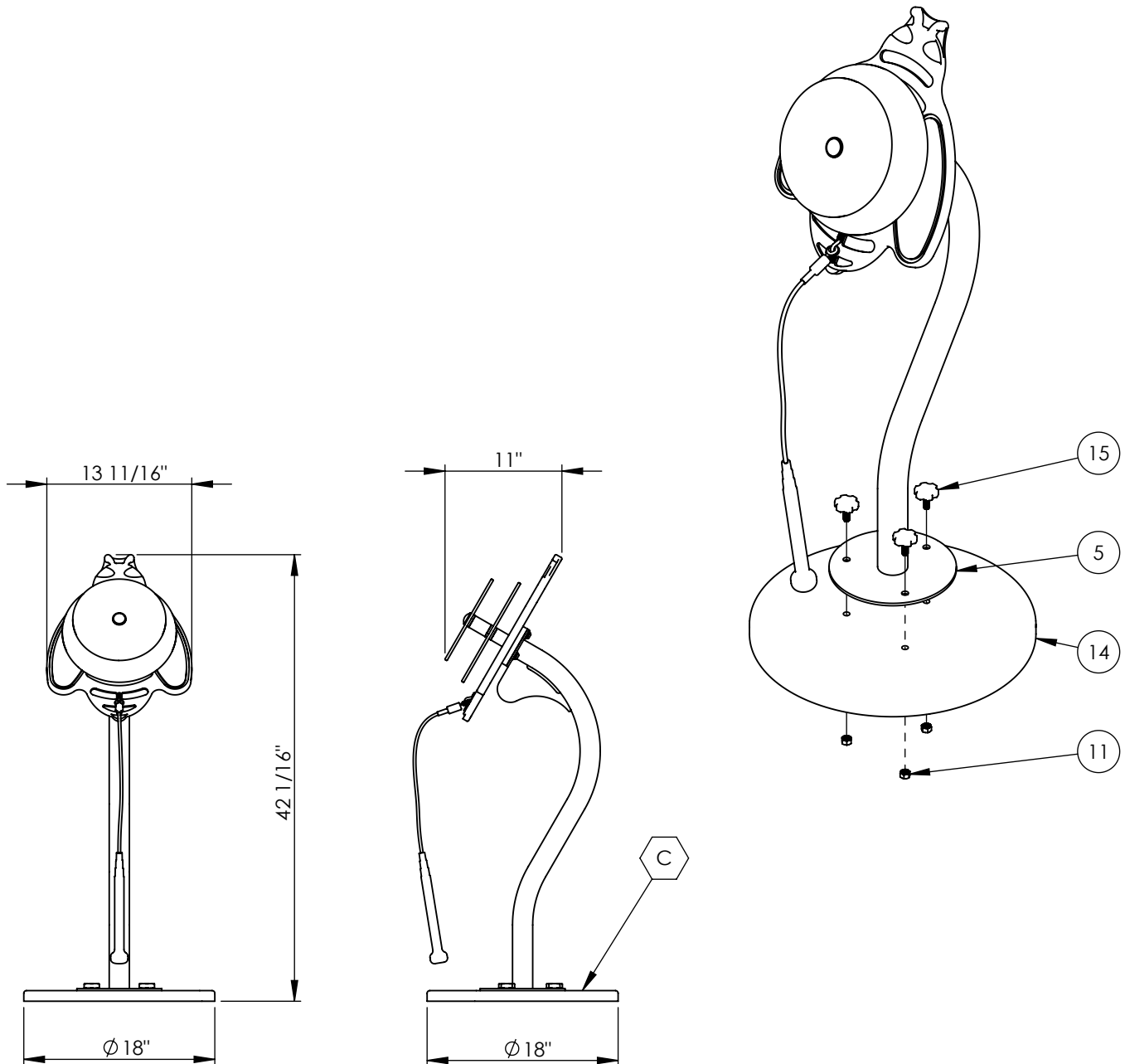
If installing onto wet concrete, follow the wet set anchor manufacturers guidelines for installation procedures.

For installations targeting compliance with ASTM F1487: Note that baseplate mounting hardware must be covered by surfacing and finished mallet attachment height must not exceed 27" in order to maintain ASTM compliance.



Step 1: With two people have one situate the instrument onto the portable base and align the holes.

Step 2: Have the second person secure the instrument to the portable stand with the provided 3/8"-16 thumb screws. Thumb screws should be tightened snugly to prevent any rattling during play. The 3/8"-16 Hex Nuts come pressed into the portable base from the factory.



Step 1: With two people have one hold the instrument in the desired mounting location and have the other mark hole locations with a marker. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.

Recommended Mounting heights:

Age	Height
2-5	32"
5-12	45"
13+	52"

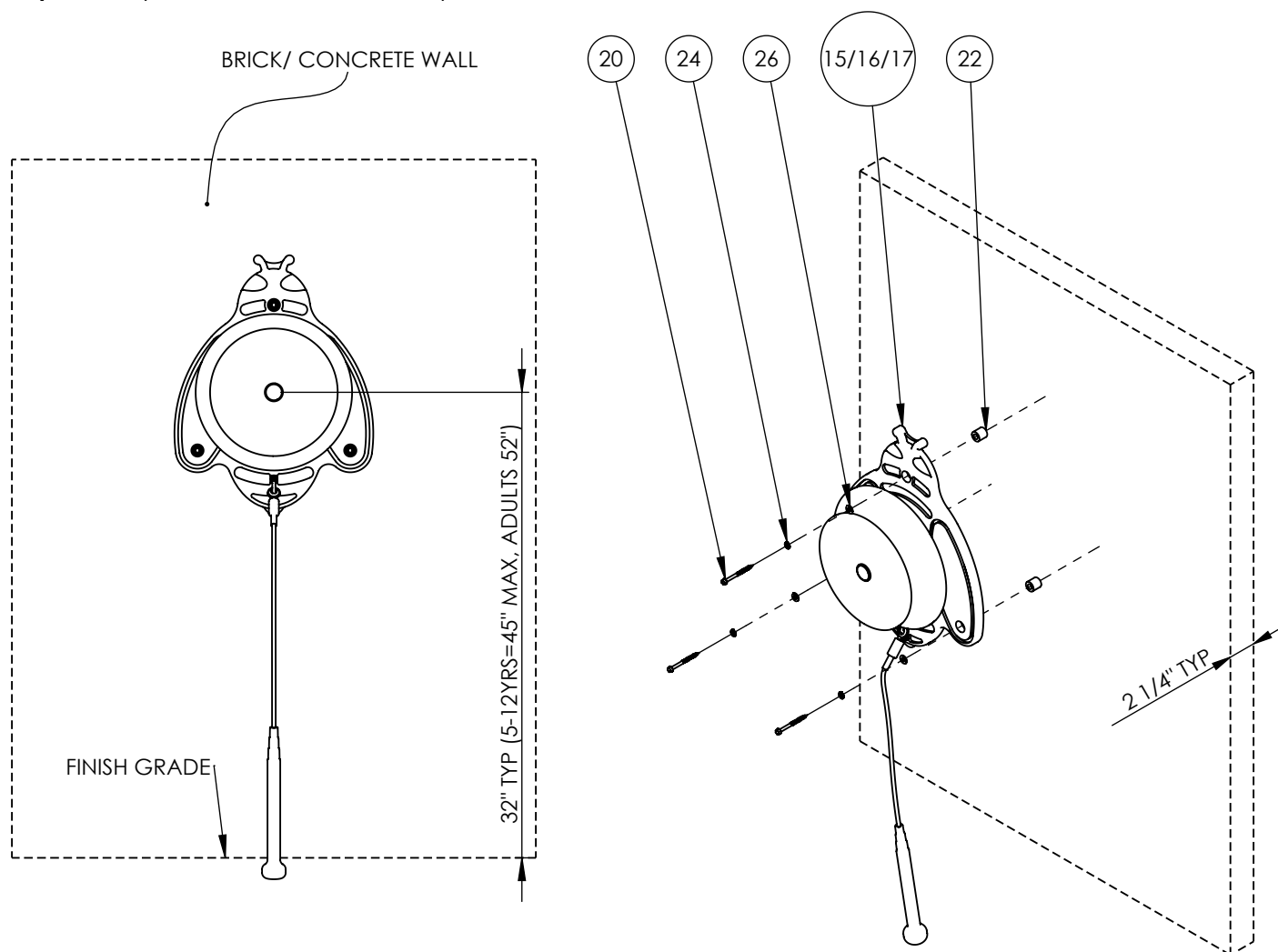
Step 2: At the marked locations, use a hammer or rotary drill to drill (3) 3/16" holes 2.25" deep minimum into the concrete or brick. do not overdrill the holes, as this will lead to a less secure hold.

Note: When installing into brick, do not install/drill pilot holes into mortar.

Step 3: Using an impact driver with socket attachment, fasten the instrument to the frame using the provided hardware. Note that removing the screw multiple times may cause the holes to strip, reducing hold.

(Optional) If a better hold is required, add a ziptie to the hole before inserting screw. The ziptie will expand to fill the space in the hole for a more secure hold when drilled.

Step 4: Verify the instrument is securely fastened to the wall.



Step 1: Verify that the mounting surface is sturdy enough and take steps to reinforce if necessary. With two people have one hold the instrument in the desired mounting location and have the other mark the (3) hole locations with a marker. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.

Recommended Mounting heights:

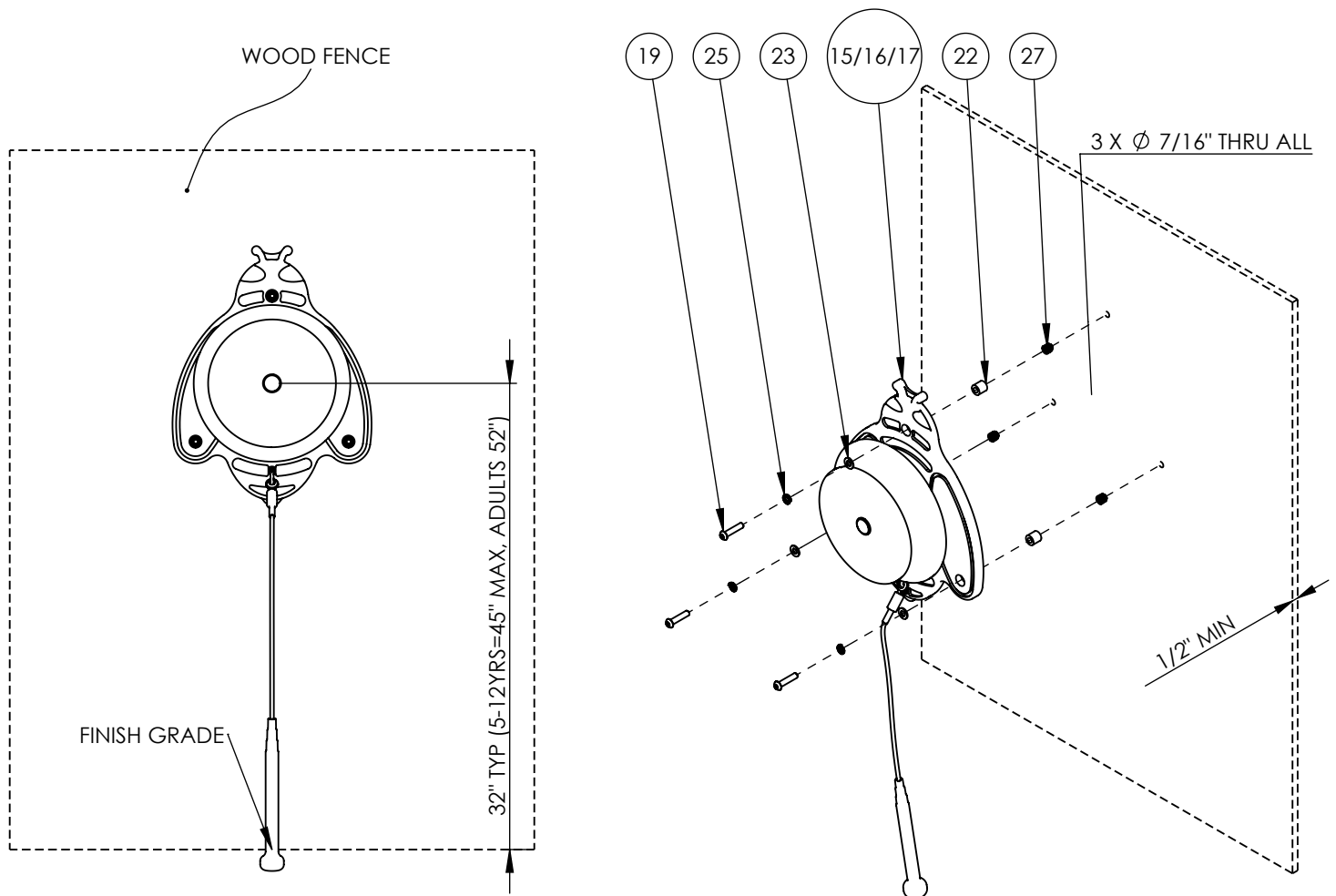
Age	Height
2-5	32"
5-12	45"
13+	52"

Step 2: At the marked locations, use a drill to drill (3) $\varnothing 7/16"$ holes through the fence, atleast $3/4"$ deep. Fence pickets must be atleast $1/2"$ thick minimum.

Step 3: Using a 10mm hex allen key, thread the tapping inserts into the fence until the flange is flush with the surface of the fence.

Step 4: Using an impact driver with T45 tamper resistant torx bit, fasten the instrument to the fence using the $\varnothing 3/8"$ bolts and provided hardware. Do not overtighten hardware, as this may split and crack wood fence pickets.

Step 5: Verify the instrument is securely fastened to the fence.



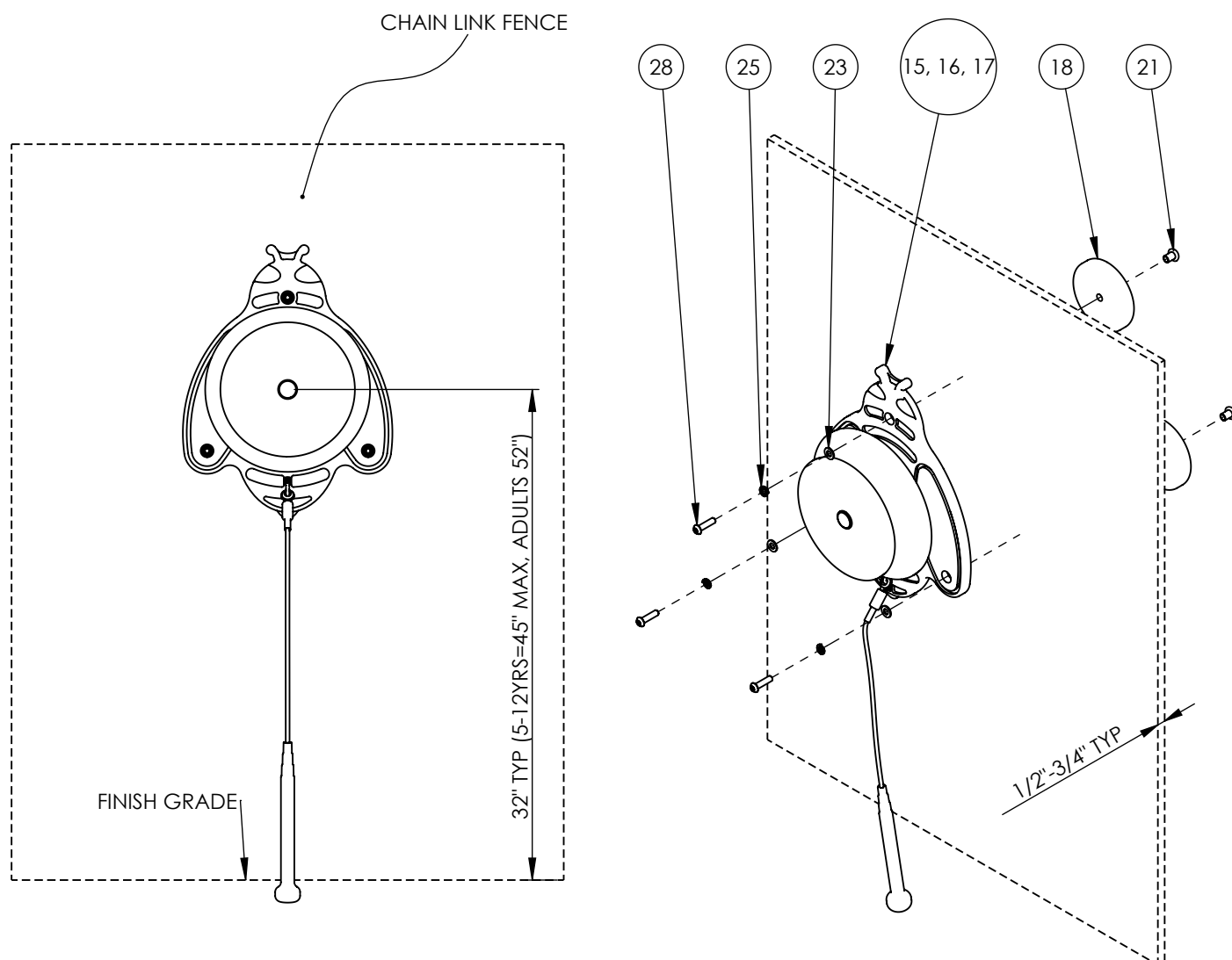
Step 1: With two people have one hold the instrument in the desired mounting location. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.

Recommended Mounting heights:

Age	Height
2-5	32"
5-12	45"
13+	52"

Step 2: Using an impact driver with T45 tamper resistant torx bit and T45 tamper resistant torx L-key, fasten the instrument to the fence using the provided hardware. The bolts, washers, and instrument go on the front of the fence, and the HDPE backers and barrel nuts go on the back of the fence. Adjust the placement of the instrument so hardware has a firm hold. Some adjustment may be required to ensure a proper installation.

Step 3: Verify the instrument is securely fastened to the fence.



CONTENTS

Sheet 1: Basic Information

Sheet 2: Bill of Materials

Sheet 3: Freestanding Attachment to Post

Sheet 4: Freestanding, In Ground Mount

Sheet 5: Freestanding, Surface Mount

Sheet 6: Freestanding, Portable Mount

Sheet 7: Wall Mount, Concrete and Brick

Sheet 8: Wall Mount, Wooden Fence

Sheet 9: Wall Mount, Chain Link Fence

INSTRUMENT INFO

Scale: C Major Diatonic

Notes: (Top to Bottom) B,G,E,C,A,D,F,A,C

Bars: Anodized Aluminum

Frame: HDPE

Post: HDPE

Mallets: Standard, 80 Durometer w/ 16" Cable Length

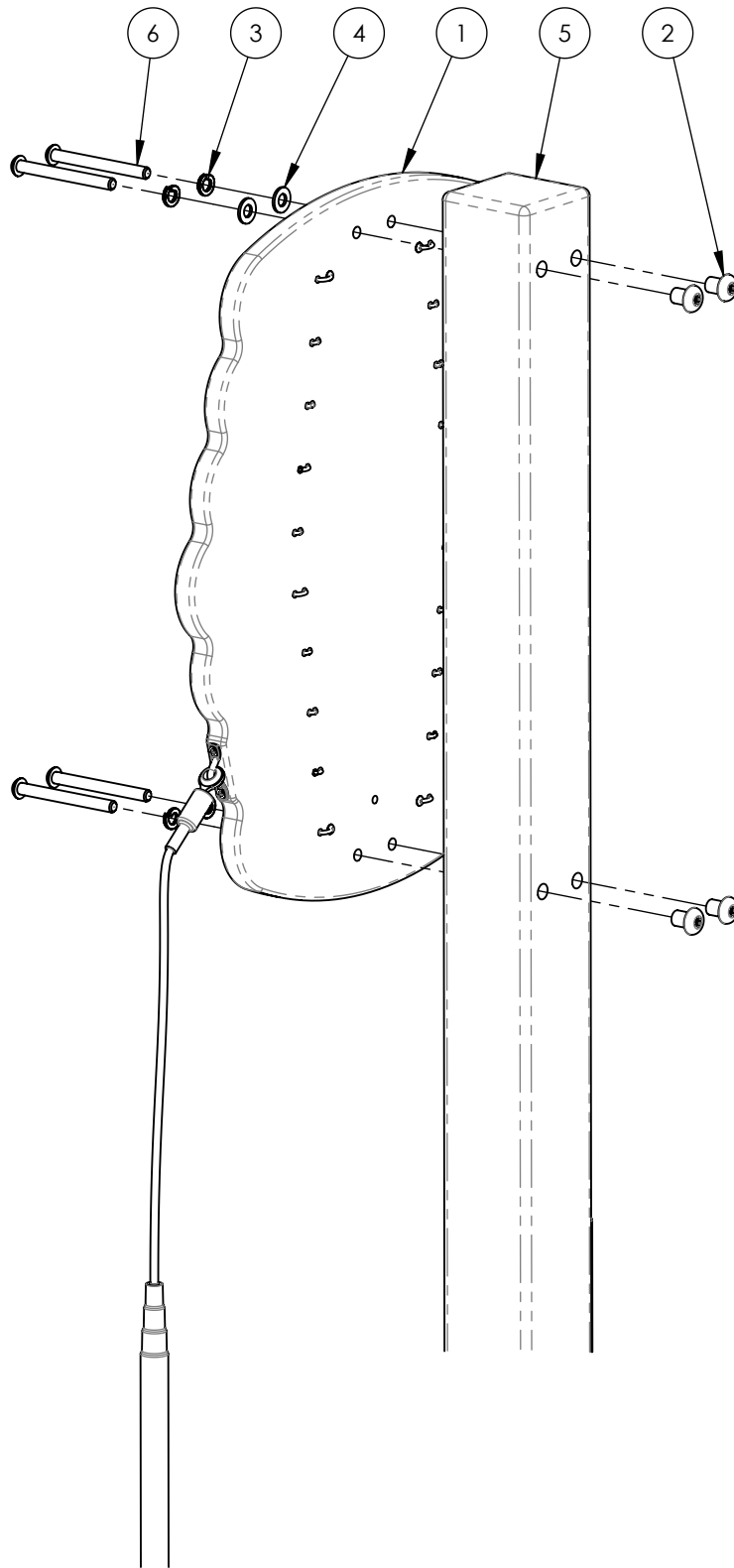


FREESTANDING				
ITEM NO.	DESCRIPTION	HIVE-IG	HIVE-SM	HIVE-PM
1	BEEHIVE-FREESTANDING INSTRUMENT	1	1	1
2	3/8" -16 BARREL NUT TORX PIN 302 STAINLESS	4	4	4
3	SS LOCK WASHER FOR 3/8" BOLTS	4	4	4
4	0.406" ID 0.812" OD 18-8 SS SAE WASHER	4	4	4
5	BEEHIVE-POST-SIGN-IN GROUND MOUNT	1	-	-
6	BOLT - 3/8"-16 X 3-3/4" SECURITY TORX WITH PATCH	4	-	-
7	3/8"-16 WEDGE EXPANSION ANCHOR, 5"LG. SS	-	4	-
8	35/64" HEX NUT CAP	-	4	-
9	BEEHIVE-POST-SIGN-SURFACE MOUNT	-	1	1
10	BOLT 3/8"-16 X 3-1/4" TORX SECURITY WITH PATCH	-	4	4
11	SURFACE MOUNT BASE HDPE, FOR RECYCLED POST (1.5" BLACK)	-	1	1
12	5/16" HEX HEAD LAG BOLT, 5"LG. SS	-	2	2
13	UNIVERSAL PORTABLE MOUNT STAND - 24" OUTER DIAMETER	-	-	1
14	3/8"-16 HEX NUT, SS	-	-	4
15	3/8"-16 SOCKET HEAD SCREW, 2.5"LG. SS	-	-	4
16	3/8" SOCKET HEAD KNOB	-	-	4

WALL MOUNT				
ITEM NO.	DESCRIPTION	CONCRETE/ BRICK	WOOD FENCE	CHAIN LINK FENCE
17	BEEHIVE-WALL MOUNT INSTRUMENT	1	1	1
18	5/8" OD 18-8 SS WASHER FOR 1/4" BOLTS	6	-	-
19	0.4879" OD 0.26" ID SS SPLIT LOCK WASHER	6	-	-
20	2-3/4" LG 1/4" SCREWS FOR CONCRETE, BRICK, AND BLOCK 410 SS	6	-	-
21	0.75" LG 0.385" ID 0.75" OD LDPE SPACER	6	6	-
22	BOLT - 3/8"-16 X 1-3/4" SECURITY TORX WITH PATCH	-	6	-
23	SS LOCK WASHER FOR 3/8" BOLTS	-	6	6
24	0.406" ID 0.812" OD 18-8 SS SAE WASHER	-	6	6
25	BEE-HDPE BACKER-3/4" YELLOW/BLACK/YELLOW HDPE	-	-	6
26	3/8" -16 BARREL NUT TORX PIN 302 STAINLESS	-	-	6
27	BOLT - 3/8"-16 X 1-1/2" SECURITY TORX WITH PATCH	-	-	6
28	ZINC ALLOY TAPPING INSERTS FOR SOFTWOOD	-	6	-

The following applies only to freestanding versions of the instruments:

Using an impact driver, T45 tamper resistant Torx bit, and T45 tamper resistant torx I-key, fasten the instrument to the post using 3/8" flat washers, 3/8" lock washers, and $\varnothing 3/8"$, 3-3/4" long tamper resistant Torx bolts. The bolts have thread locker pre-applied for a semi-permanent hold.

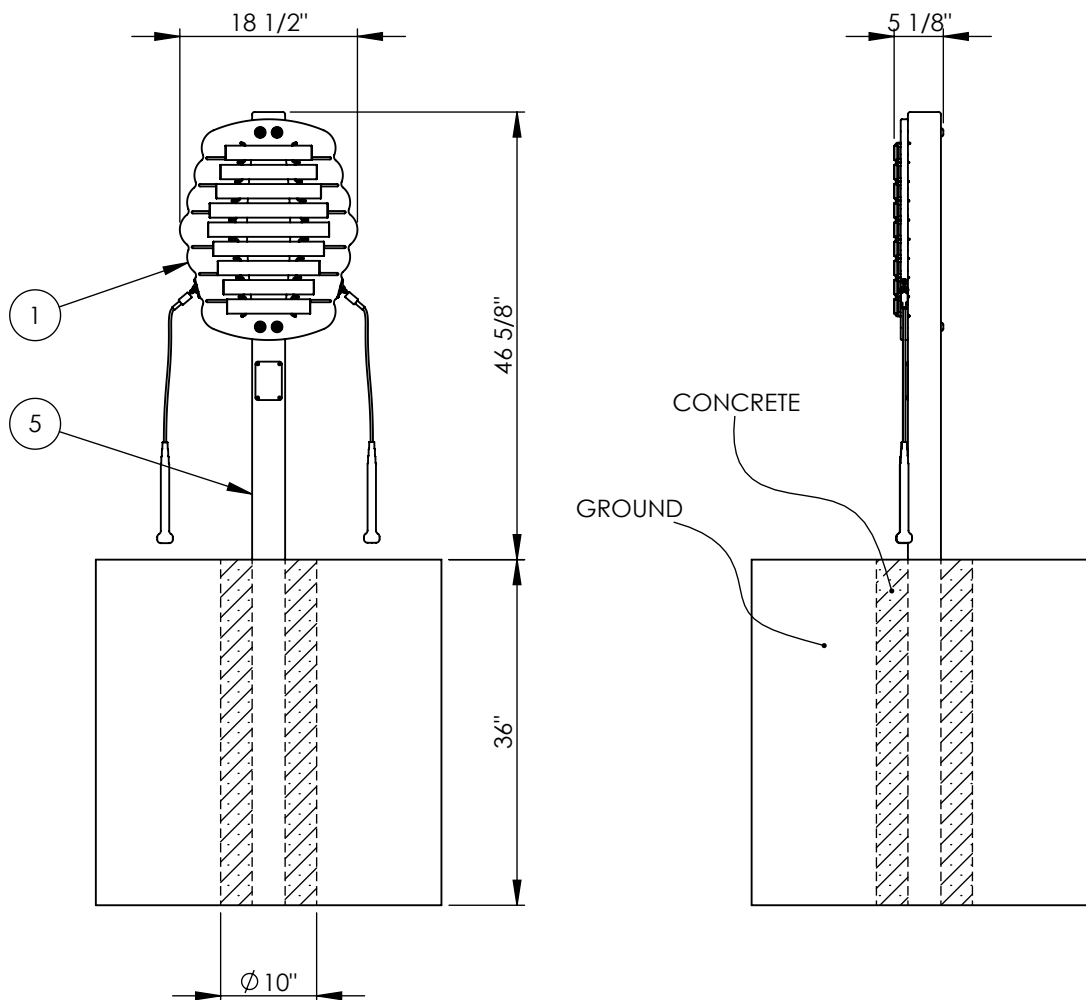


Step 1: Determine the installation location. A 36" perimeter around the instrument is recommended for wheelchair accessibility. Excavate one 10" diameter hole, 36" deep, at the installation location.

Step 2: With two people, lower instrument post into the excavated hole. Verify correct placement and levelness of the instrument.

Step 3: Pour concrete around the post. If necessary, brace the Instrument to hold it rigid while the concrete cures. Leave to set according to the concrete manufacturers guidelines. Approximately (3) 80lb. bags will be needed.

For installations targeting compliance with ASTM F1487: Note that the finished mallet attachment height must not exceed 27" above the underlying surfacing in order to maintain ASTM compliance.



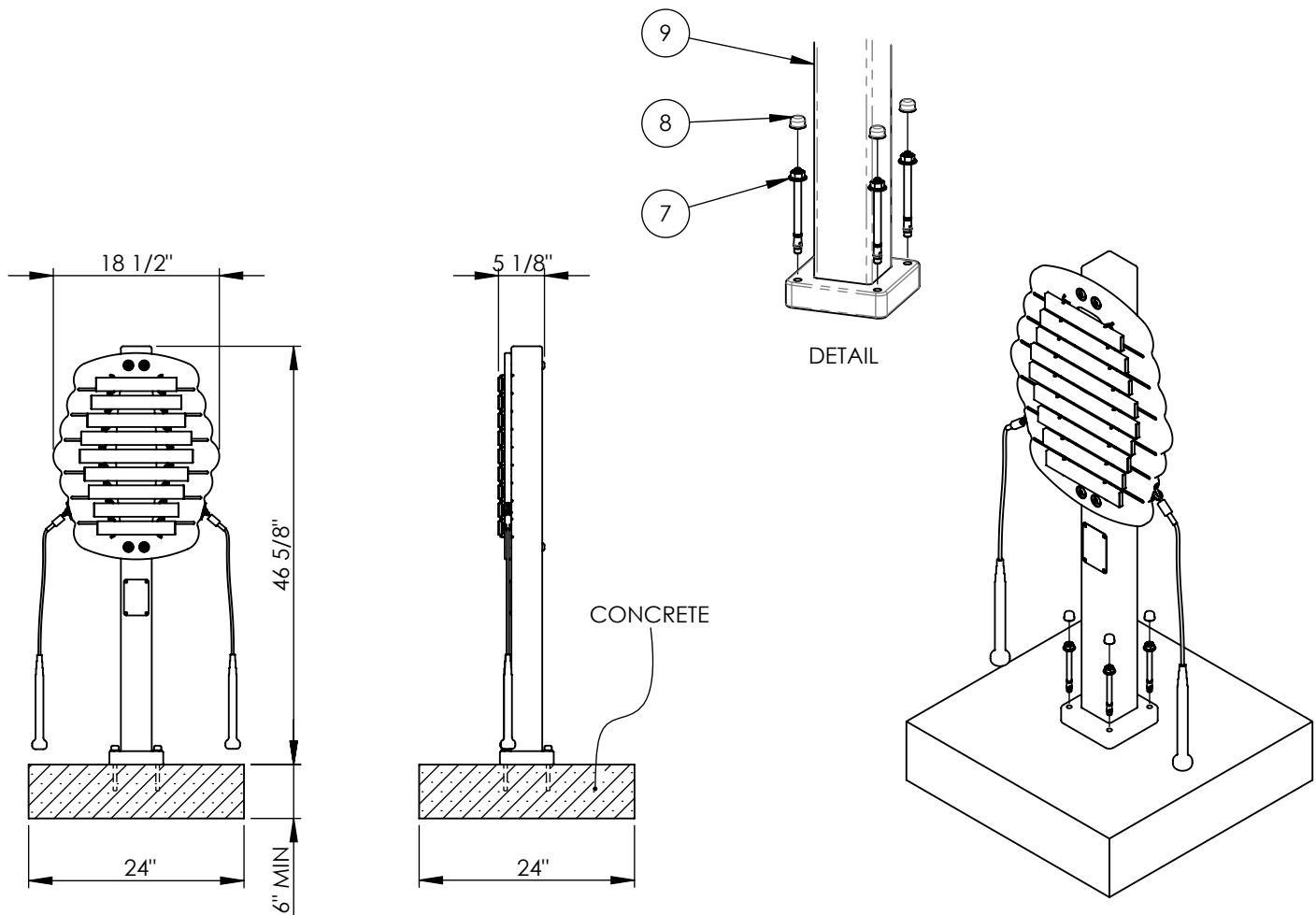
Step 1: Determine installation location. A 36" perimeter around the instrument is recommended for wheelchair accessibility. A concrete pad measuring a minimum of 24" long x 24" wide x 6" thick is required. If an existing concrete pad is not level, steel washers can be used to act as shims (shims not provided). If a new pad is being poured, approximately (4) 80lb. bags will be needed. Allow concrete to cure per concrete manufacturers guidelines.

Step 2: With two people, place the instrument onto the concrete pad and mark the center of the holes on the surface mount base. After you have made your marks, set the instrument aside. With a hammer or rotary drill, drill through concrete at marked locations. Drill to a minimum depth of 4". A 3/8" masonry drill bit will be needed.

Step 3: Place the Instrument back over the drilled out holes. Insert provided anchor bolts into aligned holes. Position anchor nut so that it is flush with the top of the bolt. Pound anchor bolts into the hole until the anchor washer is flush with the surface mount base. Tighten anchor bolts until they are snug. Cover remaining bolt sections with provided nut caps.

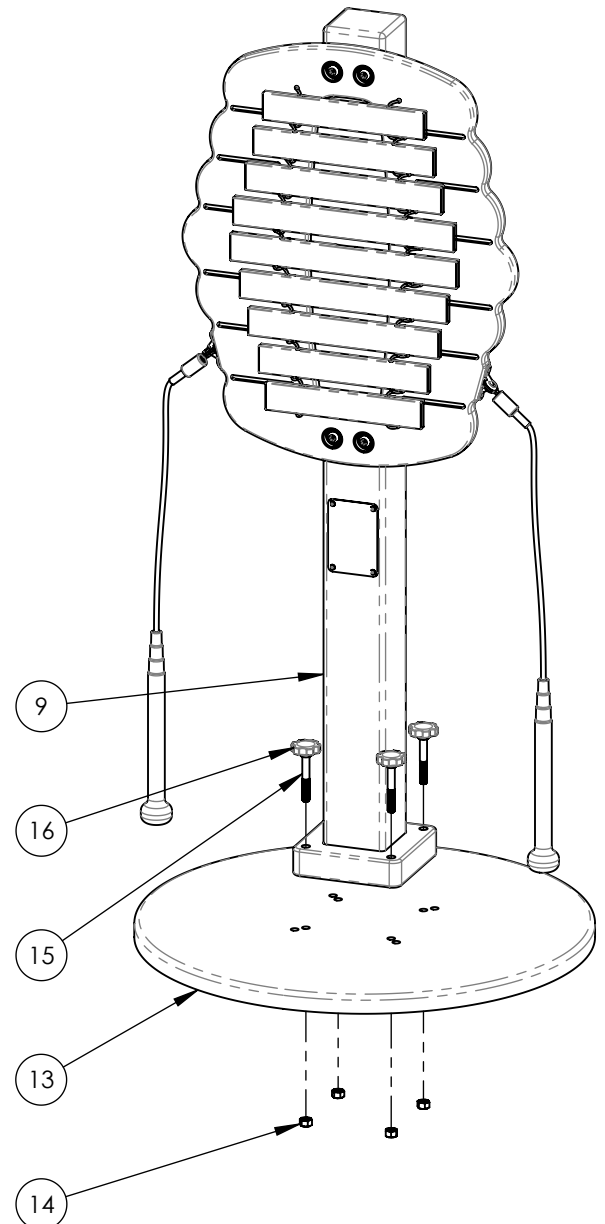
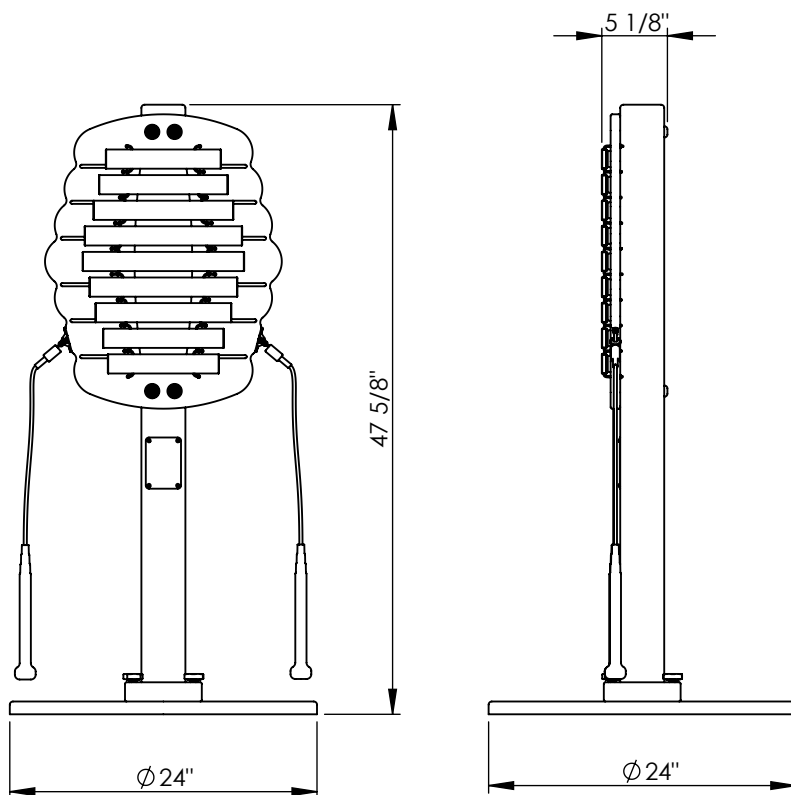
If installing onto wet concrete, us the wet set anchor manufacturers guidelines for installation procedures.

For installations targeting compliance with ASTM F1487: Note that mounting hardware must be covered by surfacing and finished mallet attachment height must not exceed 27" in order to maintain ASTM compliance.



Step 1: With two people, have one situate the instrument onto the portable stand and align the holes.

Step 2: Have the second person secure the instrument to the portable stand with the provided 3/8"-16 thumb screws. Thumb screws should be tightened snugly to prevent any rattling during play. The 3/8"-16 Hex Nuts come pressed into the portable stand from the factory.



Step 1: With two people have one hold the instrument in the desired mounting location and have the other mark hole locations with a marker. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.

Recommended Mounting Heights:

Age	Height
2-5	32"
5-12	45"
13+	52"

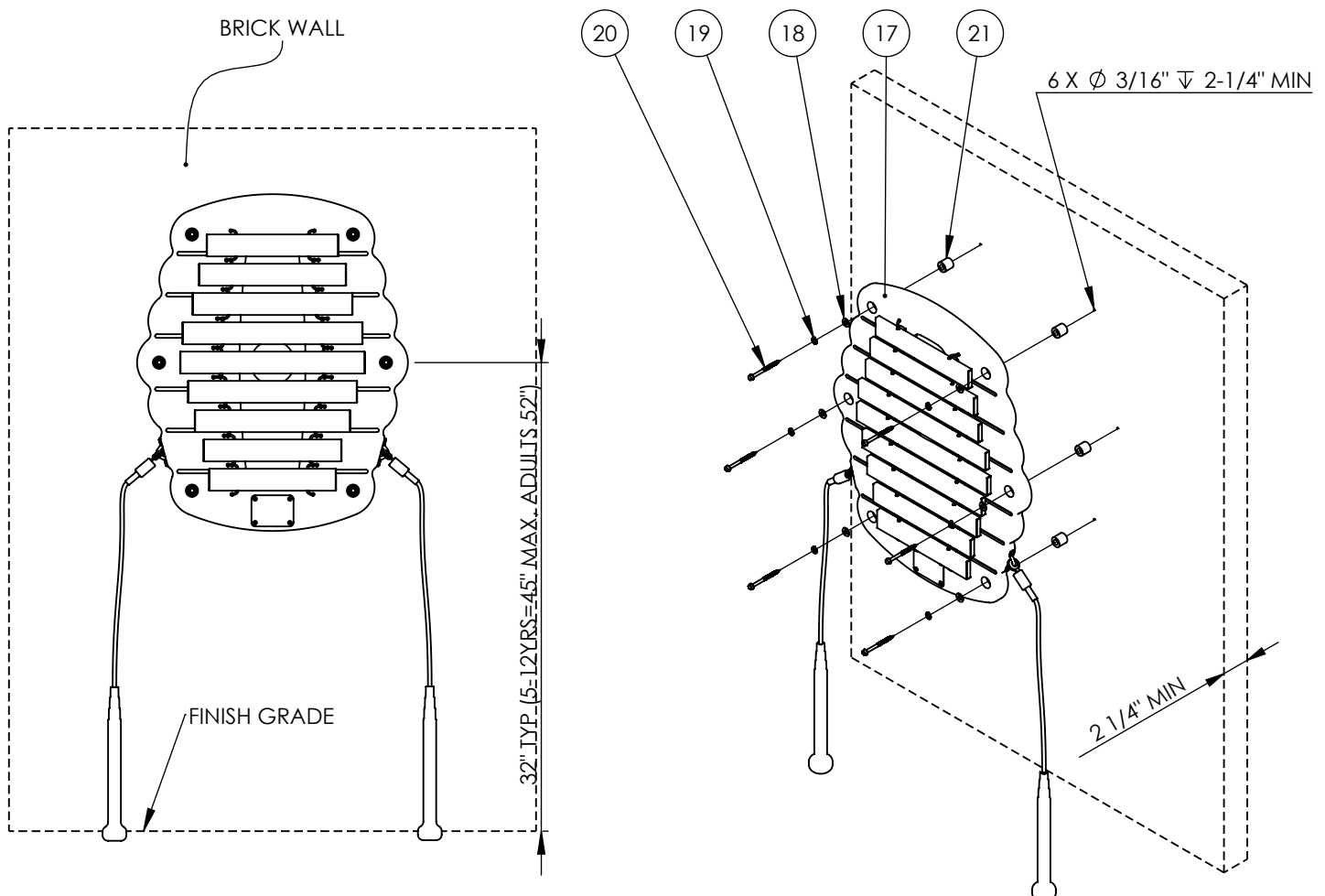
Step 2: At the marked locations, use a hammer or rotary drill to drill (6) 3/16" holes 2-1/4" deep minimum into the concrete or brick. Do not overdrill the holes, as this will lead to a less secure hold.

Note: When installing into brick, do not install/drill pilot holes into mortar.

Step 3: Using an impact driver with socket attachment, fasten the instrument to the frame using the provided hardware. Note that removing the screw multiple times may cause the holes to strip, reducing hold.

(Optional) If a better hold is required, add a ziptie to the hole before inserting screw. The ziptie will expand to fill the space in the hole for a more secure hold when drilled.

Step 4: Verify the instrument is securely fastened to the wall.



Step 1: Verify that the mounting surface is sturdy enough and take steps to reinforce if necessary. With two people, have one hold the instrument in the desired mounting location and have the other mark the (6) mounting hole locations with a marker. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.

Recommended Mounting Heights:

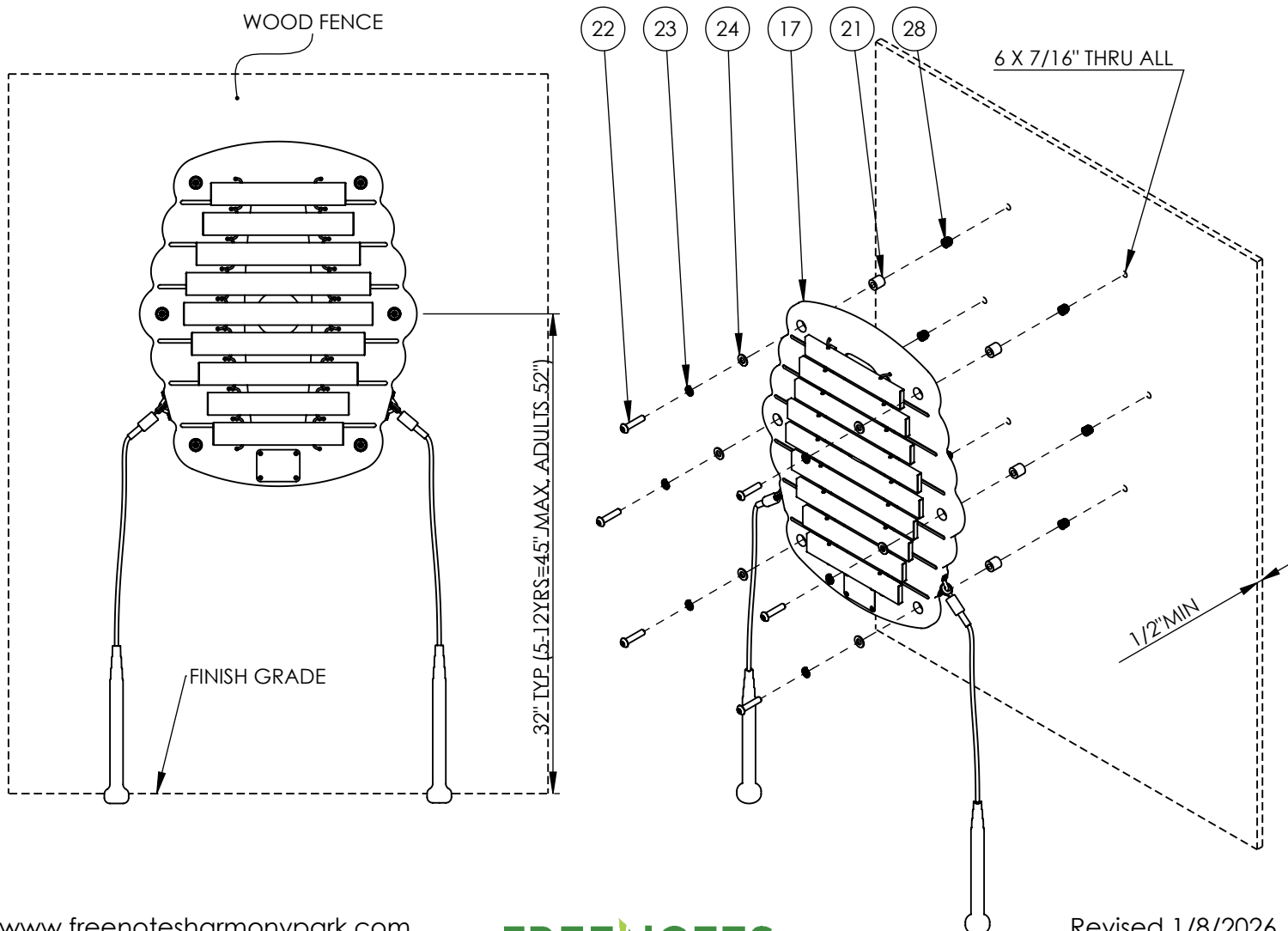
Age	Height
2-5	32"
5-12	45"
13+	52"

Step 2: At the marked locations, use a drill to drill (6) $\varnothing 7/16"$ holes through the fence, atleast $3/4"$ deep. Fence pickets must be atleast $1/2"$ thick minimum.

Step 3: Using a 10mm hex allen key, thread the tapping inserts into the fence until the flange is flush with the surface of the fence.

Step 4: Using an impact driver with T45 tamper resistant torx bit, fasten the instrument to the fence using the $\varnothing 3/8"$ bolts and provided hardware. Do not overtighten hardware, as this may split and crack wood fence pickets.

Step 5: Verify the instrument is securely fastened to the fence.



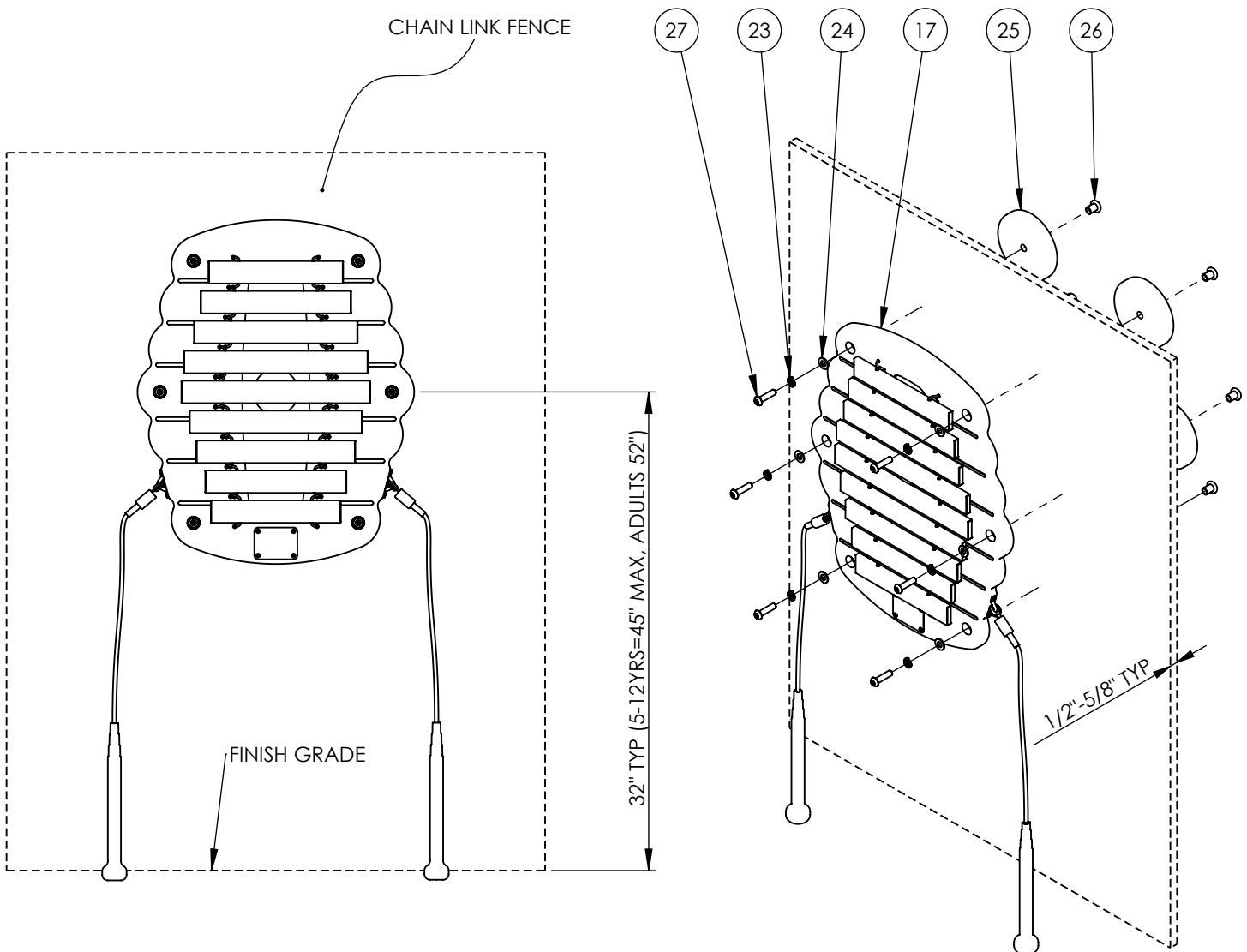
Step 1: Determine the desired mounting location. Adjustments to mounting height may be made for special populations. The instrument may be rotated slightly for a more dynamic appearance.

Recommended Mounting Heights:

Age	Height
2-5	32"
5-12	45"
13+	52"

Step 2: Using an impact driver with T45 tamper resistant torx bit and T45 tamper resistant torx L-key, fasten the instrument to the fence using the provided hardware. The bolts, washers, and instrument go on the front of the fence, and the HDPE backers and barrel nuts go on the back of the fence. Adjust the placement of the instrument so hardware has a firm hold. Some adjustment may be required to ensure a proper installation.

Step 3: Verify the instrument is securely fastened to the fence.



CONTENTS

SHEET 1: BASIC INFO

SHEET 2: BILL OF MATERIALS

SHEET 3: IN GROUND MOUNT

SHEET 4: SURFACE MOUNT

SHEET 5: PORTABLE MOUNT

INSTRUMENT INFO

NOTES: 3 DISTINCT TONES; LOW TO HIGH

TIMBRE: PERCUSSIVE

RANGE: BARITONE

DRUM BODY: LLDPE

DRUM CAP: ACRYLIC ALLOY

FRAME: HDPE

POST: POWDER COAT STEEL



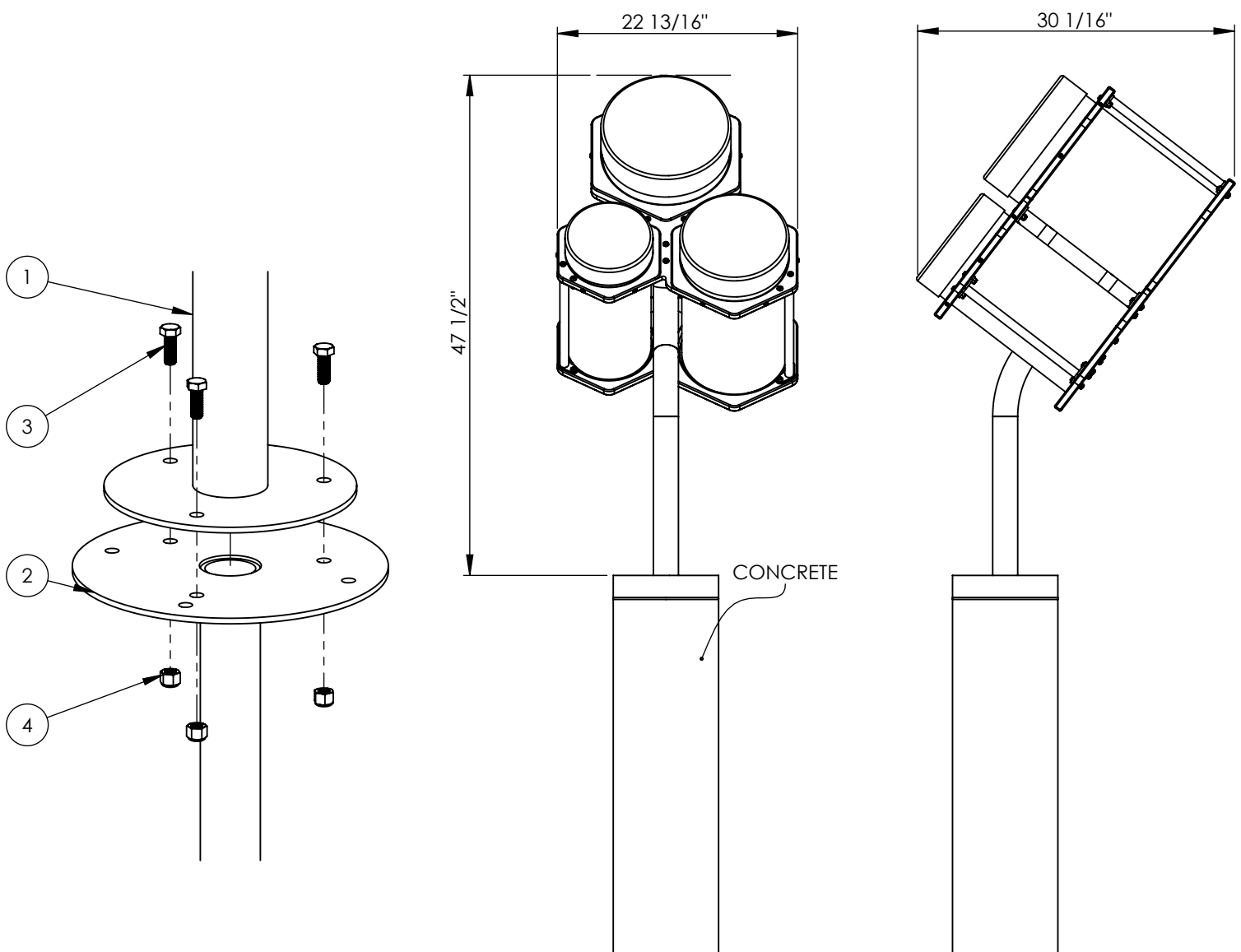
ITEM NO.	PART NUMBER	DESCRIPTION	HCC-IG	HCC-SM	HCC-PM
1	HCC-BOM	HONEYCOMB CONGAS BASE COMPONENTS	1	1	1
2	POST-STL-IG-EXT-FP	IN GROUND STEEL POST EXTENSION (POWDER-COATED)	1	-	-
3	92240A624	3/8"-16 HEX HEAD SCREW, 1"LG. SS	3	-	-
4	HWN0098	NUT 3/8" - NYLOCK 300 S/S	3	-	-
5	POW 07315	3/8"-16 WEDGE EXPANSION ANCHOR, 3.75"LG. SS	-	3	-
6	9267K43	35/64" HEX NUT CAP	-	3	-
7	MUSH-PM-PS	MUSHROOM - HDPE PORTABLE STAND (1" BLACK)	-	-	1
8	HWN0095	3/8"-16 HEX NUT, SS	-	-	3
9	91185A867	3/8"-16 THUMB SCREW, 1"LG. SS	-	-	3

Step 1: Attach the Instrument to the In Ground Post Extension by aligning the holes on it to those at the base of the instrument post and fastening them together with (3) 3/8" x 1" long Hex Head Screws and (3) 3/8"-16 Nylock Hex Nuts. Ensure there is no wobble or movement between the post and the extension.

Step 2: Excavate one 10" diameter hole, 36" deep, at the installation location. Check for sufficient clearance around the Instrument, a 36" perimeter around the Instrument is recommended for wheelchair accessibility.

Step 3: With two people, lower the post with post extension attached into the excavated hole. Verify correct placement and levelness.

Step 4: Pour concrete around the In Ground Extension. If necessary, brace the post to hold it rigid while the concrete cures. Leave to set according to the concrete manufacturers guidelines. Approximately (3) 80lb. bags will be needed.

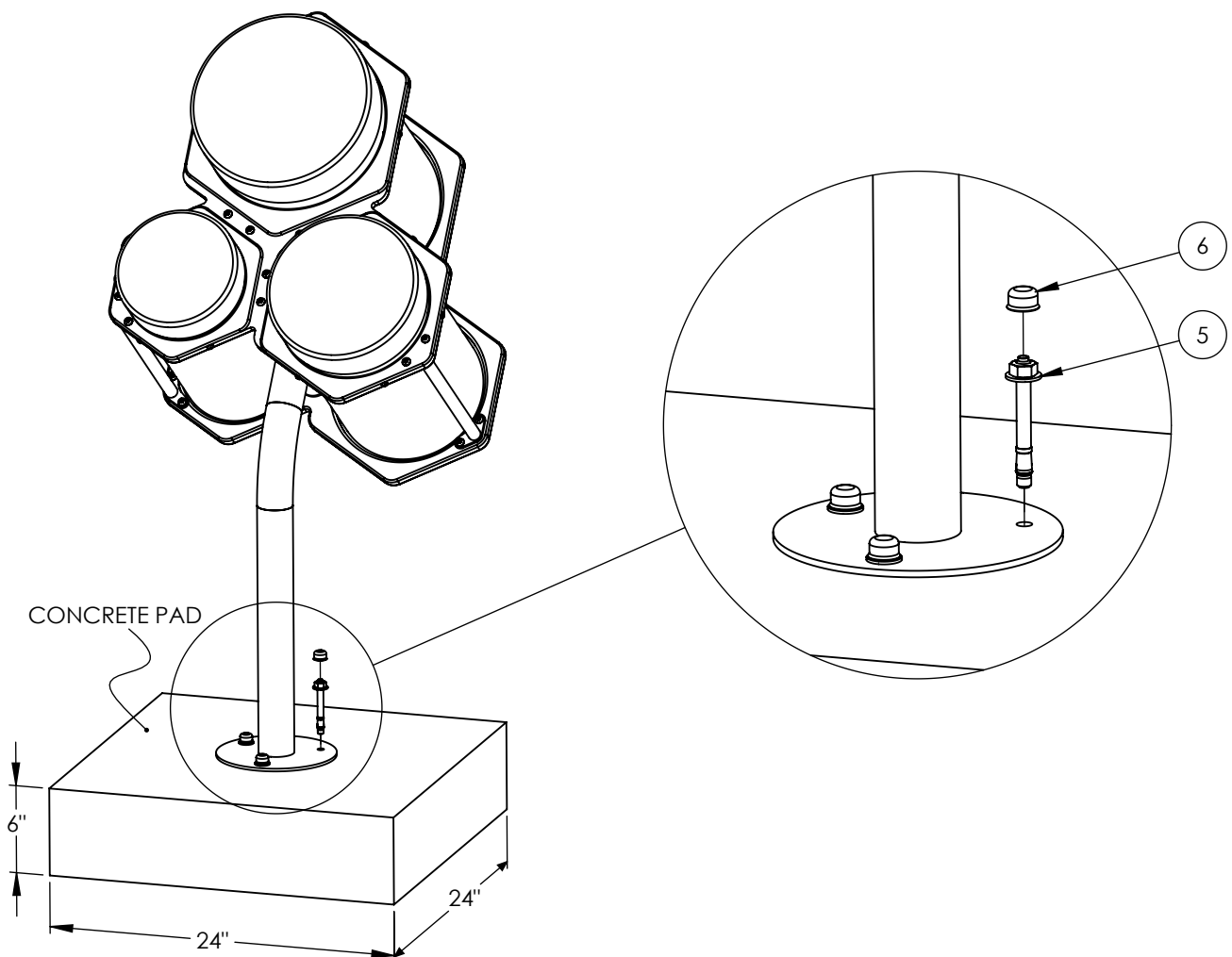


Step 1: Determine installation location. A 36" perimeter around the Instrument is recommended for wheelchair accessibility. Verify concrete pad is a minimum of 24" long x 24" wide x 6" thick. If the concrete pad is at an angle, steel washers are required to act as shims (Shims not provided). If there is not already an existing pad, approximately (4) 80lb. bags will be needed. Allow concrete to cure per concrete manufacturers guidelines.

Step 2: With two people, place the Instrument Assembly onto the concrete pad and mark the center of the holes on the surface mount base. After you have made your marks, set aside the Instrument in order to drill for anchor holes. With a hammer or rotary drill, drill through concrete at marked locations. Drill to a minimum depth of 4". A 3/8" masonry drill bit will be needed.

Step 3: Place the Instrument back over the drilled out holes. Insert provided anchor bolts into aligned holes. Position anchor nut so that it is flush with the top of the bolt. Pound anchor bolts into the hole until the anchor washer is flush with the surface mount base. Tighten anchor bolts until they are snug. Cover remaining bolt sections with provided nut caps.

If installing onto wet concrete, use the wet set anchor manufacturers guidelines for installation procedures.



Step 1: With two people, situate the instrument onto the portable stand and align the holes in the base of the post.

Step 2: While one person holds the instrument steady, secure the instrument to the portable stand with the provided 3/8"-16 thumb screws. The 3/8"-16 Hex Nuts come pressed into the Portable Stand from the Factory.

Thumb screw tightness should be checked periodically as they may loosen during movement or play.

