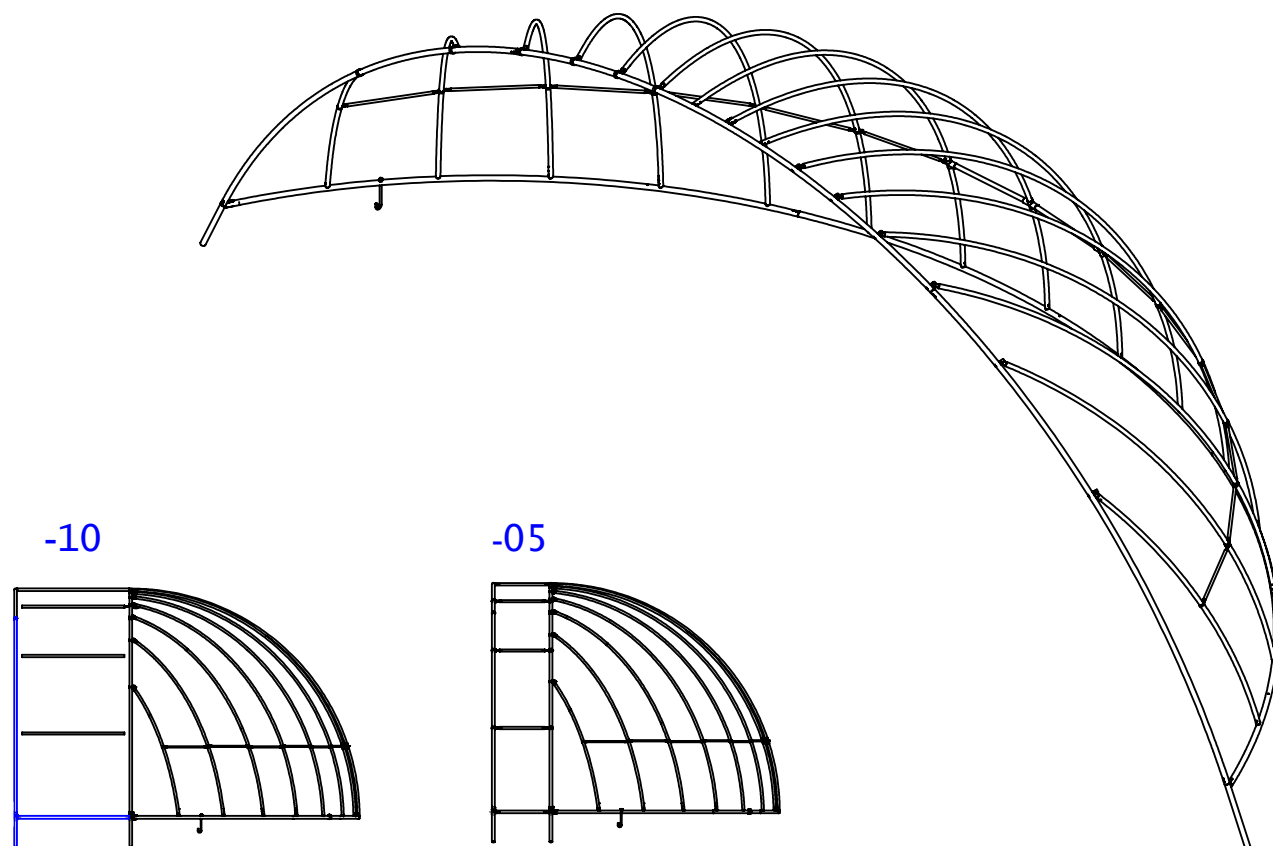


62' PERPENDICULAR ARCH BACKSTOP

MODEL - 1216-00	Permanent Arch Backstop	(4,000 lbs)
- 1216-05	Backstop W/ 5' Extension	(5,000 lbs)
- 1216-10	Backstop W/ 10' Extension	(6,000 lbs)



Specifications:

General: A heavy duty, all galvanized steel backstop shipped unassembled with all parts and instructions necessary for quick assembly. This version is 20' Tall, 62' Wide & 20' Depth. Also includes optional front extensions of either 5' or 10'.

Materials: All Pipe & Fittings are galvanized steel. Sizes given are outside diameter. Powder Coating Options are Black.

<u>Description:</u>	<u>Size</u>
Base & Overhead Arch	2-7/8" O.D.
Ribs	2-3/8" O.D.
Stiffeners	1" O.D.



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PRODUCT NAME

BASEBALL BACKSTOP

MODEL NO.

1216-00-SPEC

MODEL #1216-00 - ARCH BACKSTOP 20'H x 20'D x 62'W (4,000 LBS)

SPECIFICATIONS:

Overhead & Base Arches: **2-7/8"** O.D. galvanized steel.

Vertical Ribs: **2-3/8"** O.D. galvanized steel. Ribs shall be formed to a smooth continuous radius through out the entire length of each rib.

Flattened Sleeves: **1-7/8"** O.D. galvanized steel, factory flattened and punched. Secured between PW Heavy Duty Rib Collars and vertical ribs with zinc plated 3/8" x 1-1/4" hex head bolts, flat washers and lock nuts. To ribs with 5/8" set screw.

Horizontal Stiffeners: **1"** O.D. galvanized steel, secured between vertical ribs with 3/4" wide galvanized steel brace band clamps with 5/16" x 1-1/4" carriage bolts, flat washers and lock nuts. For vertical ribs #1 and #2 PW Heavy Duty Fittings, Secured 3/8" set screw bracing use **2-3/8"** O.D. galv. steel pipe,

Main Footing Anchors: **2-7/8"** O.D. galvanized steel, welded sleeves that fit into BASE and OVERHEAD arch ends (**2-3/8"** O.D. galvanized steel). Footing anchors shall extend 3 feet into footings and shall be welded at the bottom with one piece of 6" long angle (2" x 2" x 3/16") steel, to form an anchor in the concrete footing.

Anchor Bolts: 5/8" x 12" foundation bolts, extending throughout BASE arch and shall be evenly spaced between vertical ribs. Any exposed threads to be destroyed by Installer.

Tension Bars: 3/4" galvanized and shall be secured with galvanized tension bands spaced 18 inches on center and bolted with 5/16" x 1-1/4" zinc-plated carriage bolts flat washers and lock nuts. Tension bars shall be installed along inside overhead arch.

Chain Link Fabric: Fabric shall be 9-gauge on all models except top (third) course shall be 11-gauge. It shall be installed horizontally in single lengths to outside of backstop using 12-gauge galvanized wire ties every 18 inches along vertical ribs. Edges shall be over-lapped a minimum of 1" to 2" and tied together with 9-gauge, #3 galvanized hog rings every 6 inches along seams. Fabric shall be pulled tight around curvature of backstop and shall be cut and trimmed in a neat and professional manner. Where wire is cut, exposed barbs shall be bent double to leave a knuckled edge, and should be cut along the rib.

PW Heavy Duty Rib Collars: Custom made 2-7/8" P.W. Heavy Duty Rib Adapter Collars.

Concrete Footing: Footings for OVERHEAD arch shall be 4' deep x 3' in wide. This is to allow the anchors to retain the proper angle going into the footing. this is an important step in insuring that your backstop will be easy to erect, and retain the proper rolled radii. Footings for BASE arch anchor bolts shall be 18" deep x 18" wide. Concrete not included.

Finish: All pipe and hardware is galvanized steel. All fasteners are zinc-plated except anchor bolts.



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BASEBALL BACKSTOP

MODEL NO.

1216-00-SPEC

General Notes:

1. Check Materials Received with the parts list on PG. (12) to Make sure all components are included to assure that unit is complete. If you ordered with an extension see also PG. (15)
2. The site must be level, with not more than ± 1 " variation from mean elevation over entire length and depth of Base arch.
3. A construction-type forklift with a 20' boom capacity, and a scaffold, will be necessary to assemble the components and attache the wire mesh.
4. for maximum ball-capture, the OVERHEAD arch should be directly over home plate.
5. The BASE and OVERHEAD arches are 2-7/8" O.D. galvanized steel, both individually consist of three curved sections. The BASE and OVERHEAD arch sections named as follows. (note: left & right are positioned when observing the arch as a pitcher would.)

1216 - Main assembly

Left - BASE arch B-1
Center - BASE arch B-2
Right - BASE arch B-3

Left - OVERHEAD arch O-1
Center - OVERHEAD arch O-2
Right - OVERHEAD arch O-3

1216 - Optional EXT assembly

Left - OVERHEAD-EXT arch OE-1
Center - OVERHEAD-EXT arch OE-2
Right - OVERHEAD-EXT arch OE-3

Extremely Important

1216-00 Before Assembly the overhead & Extension arch, slide P.W. H.D. Adapters on first:

1. On Left (O-1) and on Right (O-3) arch, slide 2 P.W. H.D. Adapters (total 4) , On Center (O-2) slide 4 P.W. H.D.adapters on each side of the welded center stubs. (total 8)

1216-05(10) Option

1. On Left (O-1) and on Right (O-3) arch, slide 6 P.W. H.D. Adapters (total 12) , On Center (O-2) slide 9 P.W. H.D.adapters on each side of the welded center stubs. (total 18)
- 1.5 On Left (OE-1) and Right (OE-3) arch, Slide 4 P.W. H.D. Adapters. (total 8) On Center (OE-2) slide 5 P.W. H.D. Adapters on each side of the welded center stub. (total 10)

1216-ALL

2. Secure sections with 5/8" x 3-1/2" Hex bolts, Washers, and Nylocks and 5/8" x 1" set screws
DO NOT POUR CONCRETE UNTIL ENTIRE FRAME IS ASSEMBLED.

P.W. has noted a size of the main anchor footing as a guideline, and asks that you check with your local permit authorizing personnel, or your architect before proceeding, as your area of the country might require larger footings.

P.W. has noted this particular size, so the main anchors may swivel on the base arch to properly align with the OVERHEAD arch. When installing, place the anchors in the base arch, and leave them FINGER TIGHT ONLY

ONLY after assembling the entire arch, go back and tighten all the arch hardware & set screws with proper sized wrenchs.

FRAME ASSEMBLY:

Assemble the BASE arch

- 1.1 LOCATE the Three Sections of the BASE arch. (B-1,B-2,B-3).
- 1.2 Starting from the left and on the inside of the BASE arch (See Detail on Pg. 16).connect the three sections of the Base using the set screws provided. Make sure all sleeved locations on the BASE arch are fully seated.
- 1.3 Set proper field location. (See detail on Pg. 21)
- 1.4 Measure 62' outside to outside and adjust as necessary for conform to the 62" dimension. (See Pg. 5)
- 1.5 Mark the Location of the main footing anchors at each end of the Base arch.



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BASEBALL BACKSTOP

MODEL NO.

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- 1.6 Mark The anchor bolt location at each pre-drilled hole in the BASE arch.
- 1.7 Move BASE arch aside and dig footings.
- a. Note: Recommended Main anchor footing dimension are 36" wide x 48" deep (see footing Detail on Pg. 10)
- a.1 Note: 1216-05(10) models with optional extension will require two more anchor footings at either 5' or 10' out from the main footings on the 1st OVERHEAD arch depending on model ordered.
- b. Note: Recommended anchor bolt footings are 18" wide x 18" deep (see footing detail on Pg. 10)
- c. Note: footing recommendations are based on average soil condition. Loose or Sandy soil is not average and footing sizes must be increased accordingly to meet local building codes.
- 1.8 Relocation BASE arch to match footing locations. Measure outside to outside on BASE arch ends again and hold the 62' dimension
- 1.9 Stake the rear of Base arch to prevent sliding when installing OVERHEAD arch. Insert main footing anchors into both ends of the BASE arch until fully seated. DO NOT tighten set screws at this time.

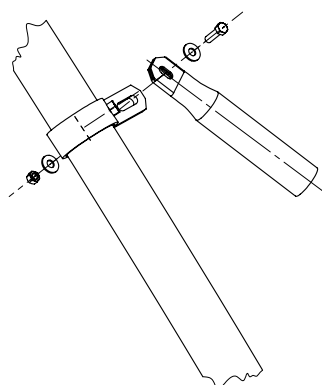
Assemble the 1st OVERHEAD arch (See "Extremely important" note on Pg . 3)


- 2.0 Locate the three sections of the OVERHEAD arch (0-1, 0-2, 0-3).
- 2.1 Starting from the left and on the inside of the OVERHEAD arch (see Detail Pg 16), assemble the three sections of the OVERHEAD arch. use 5/8" x 3-1/2" thru-bolts provided. Make sure all sleeved locations on the 1st OVERHEAD arch are fully seated.
- 2.2 Raise assembled OVERHEAD arch into position using forklift. Lower the overhead arch onto Main footing anchors until fully seated. (Ref: step 1.9 above) See the main footing anchors.
- 2.3 Leave the forklift in position to support the OVERHEAD arch until vertical ribs are installed.
- 2.4 Tighten set screws to hold the Main footing anchors in place. DO NOT pour concrete until the entire frame of the arch is assembled.

Critical Note: AFTER OVERHEAD ARCH, BASE ARCH, AND RIB #1 IS UP, STOP TO VERIFY OVERALL MEASUREMENTS (WIDTH, HEIGHT, AND DEPTH) BEFORE PROCEEDING.

Install Vertical Ribs

- 3.0 All Vertical should be verified and sorted by cord length (see Pg.12) and **Important** slide center tee brace fitting onto Rib #1 prior to installation of rib. Rib #1 is the center fixed rib. Insert bottom of center rib onto welded stub on the base arch. Hold back overhead arch and insert the top of rib #1 onto stub of OVERHEAD arch. See PG 17 & 18. Make sure rib and sleeve are fully seated on Overhead & Base arch. Tighten set screws to hold in place. Repeat this step for Rib #2. using left and right tee brace.
- 3.1 Horizontal stiffeners are used between the ribs. There are 2 different Lengths of horizontal Stiffeners with different O.D. dimension. 2-3/8" O.D. for the center tee fittings and 1" O.D. for all others. Assemble stiffeners with 2-3/8" brace bands using 5/16" x 1-1/4" carriage bolts. Slide stiffeners and tee fittings up to approximately 6' above finish grade. Only tighten enough to hold in place. See detail below.



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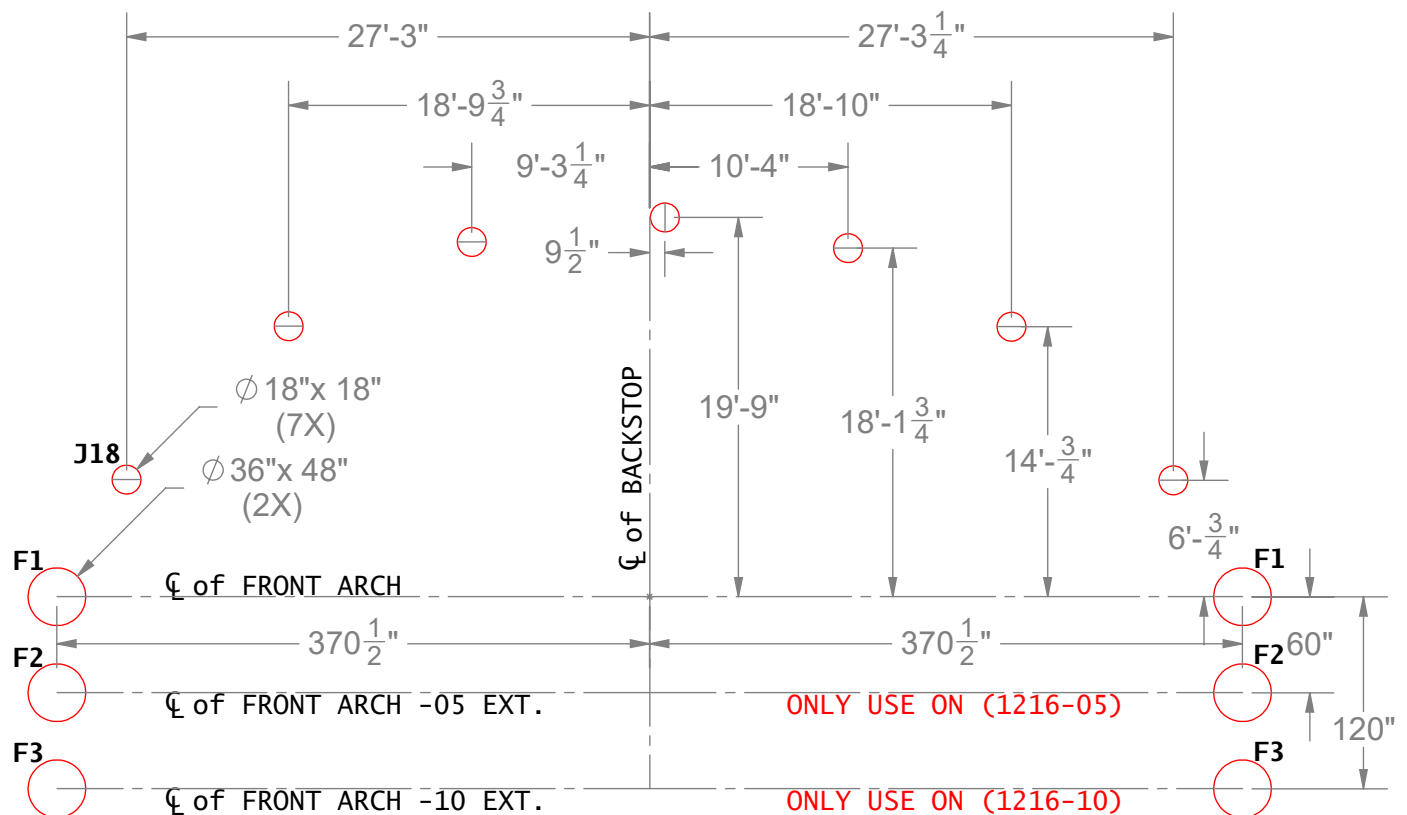
INSTALLATION CONCRETE FOOTINGS:

Footing Locations Below: F1 & J18 Footings only use for 1216-00 backstop.

F1, F2, J18 Footings only use for 1216-05 Ext Backstop.

F1, F3, J18 Footings only use for 1216-10 Ext Backstop.

(These Layouts are explained Below & on Sheet 7.)



DO NOT POUR CONCRETE UNTIL ENTIRE FRAME IS ASSEMBLED

PW has noted the size of the main anchor footings as a guide line, and asks that you check with your local permit authorizing personnel, or your architect before proceeding, as your area of the country might require larger footings.

Footing must be wide enough to allow anchor to be placed at the approx. angle shown. The angle must be adjusted to form arch and maintain width of backstop. Anchor MUST NOT touch sides of footing.

PW has also noted this particular size, so the main anchors may swivel on the base arch to properly align with the overhead arch, the anchor must freely hang in footing and not touch sides of footing. When installing, place the anchors in the base arch, and leave them FINGER TIGHT ONLY, at this time. Place the overhead arch onto the main anchors and finger tighten at this time. This allows the overhead arch to settle in the proper angle and sphere to insure trouble free alignment with the ribs.



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- 3.2 To install remaining ribs, locate the P.W. rib collars that were slid onto the OVERHEAD arch done before step 1. Locate the flattened sleeves (See Detail on Pg 7) insert flattened sleeves into the top of rib #3 and attach to P.W. H.D. Adapter.
- 3.3 In Alternating sequence, install remaining ribs, 3,4,5,6,7 & 8 installing one rib to each side of Previous rib see detail on page 21. DO NOT tighten fully until all stiffeners and clamps are in place.
- 3.4 Adjust ribs and stiffeners as needed for vertical and horizontal continuous curved appearance.
- 3.5 Make sure all sleeved joints are fully seated then tighten all bolts and set screws.
- 3.6 Install anchor bolts and nut in the holes on the base arch. Thread nuts on anchor bolts until 2 threads are protruding out of nut. Make sure anchors are centered in footing holes. (See Pg. 10)

ASSEMBLY OF "OPTIONAL" OVERHEAD EXTENSION (SEE EXTREMELY IMPORTANT NOTE ON PG 3)

- 4.0 Extend the base arch on ends with 2-7/8" O.D. arch backstop extension anchor weldment detailed on Pg 21. sleeve onto main footing anchors and use set screws to hold in place. see footing detail on Pg 14.
- 4.1 Insert footing anchors into other end.
- 4.2 Locate three section (OE-1, OE-2, OE-3) and sleeve the sections together until fully seated as in step 2.2 using 5/8" x 3-1/2" hex bolts provided. NOTE: the center stub on OE-2 will not face the 1st OVERHEAD arch. remember to slide P.W. H.D. Clamps on first.
- 4.3 Raise OVERHEAD EXT. arch onto footing anchor as in step 3. NOTE: Stake anchors to hold in place until extension ribs are installed.

NOTE: Center and Anchor extension ribs are longer than the remaining rib extensions.

Assembly of rib extensions (See Detail on PG 7)

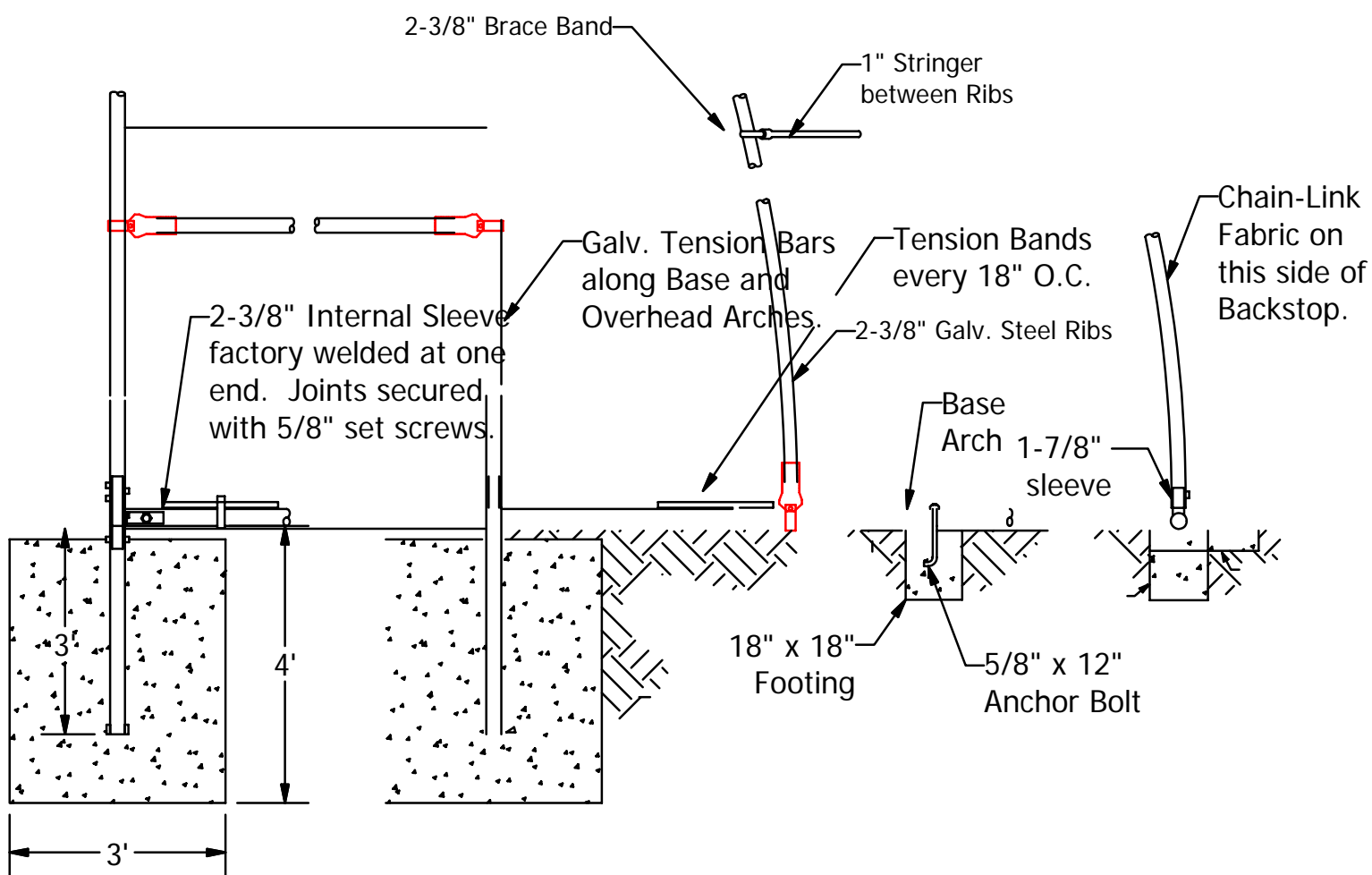
- 5.0 Sleeve the 2-3/8" O.D. Material (56-1/2" for 5' Ext. or 116-1/2" for 10' Ext.) onto the stub on O-2 of the 1st OVERHEAD arch and the center stub on OE-2 of the OVERHEAD arch extension.
- 5.1 At each rib location use 2-3/8"od material (46" for5' Ext. or 106" for 10' Ext.) 2-7/8 P.W. H.D. adapter and flattened sleeve to extend the ribs out to the OVERHEAD arch extension. Use Set screws to hold in place.
- 5.2 Evenly Space the last two pipe extensions on either side of the arch between the last rib and the ground.

Installation of Concrete (see footing Detail on PG 10)

- 6.0 Check for frame alignment and adjust frame before pouring concrete
- 6.1 Pour concrete in the front large main footing holes to within 2" of finished grade. ref. Pg.
- 6.2 Pour anchor bolt footings up to finished grade.
- 6.3 Allow concrete to set up for 3-days before completion of the installation.
- 6.4 After footings have set, cover the main footings with dirt or turf.
- 6.5 Important Note: Footing Sizes are based on average soil conditions. Loose or sandy soil is not average and footing sizes must be increased accordingly to meet local soil conditions.



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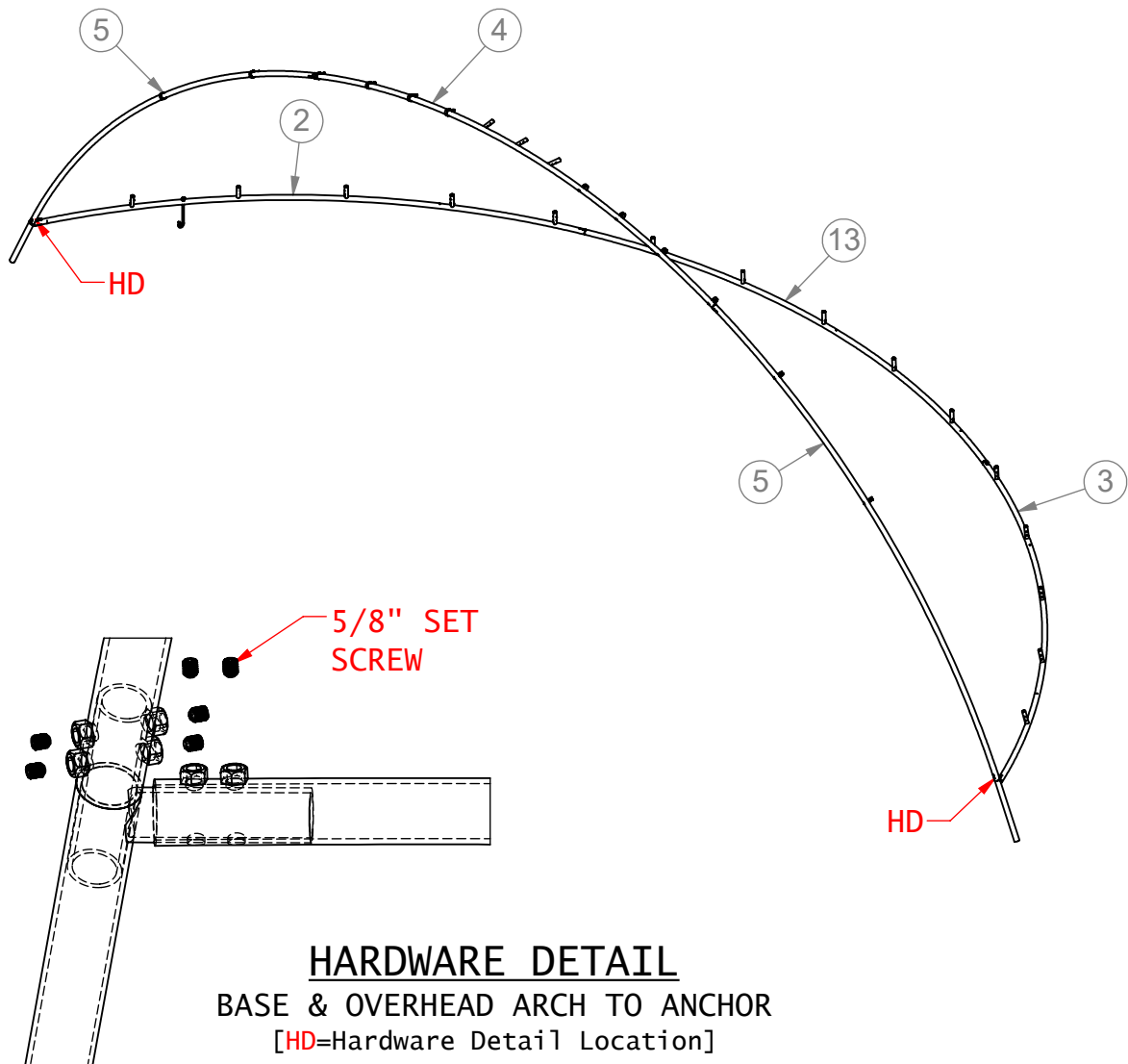
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PRODUCT NAME

BASEBALL BACKSTOP

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1216-00-SPEC



SET SCREWS ARE USED FOR ATTACHING
 THE CORNERS OF THE BACKSTOP SECURED
 TO THE ANCHORS EMBEDDED INTO CONCRETE



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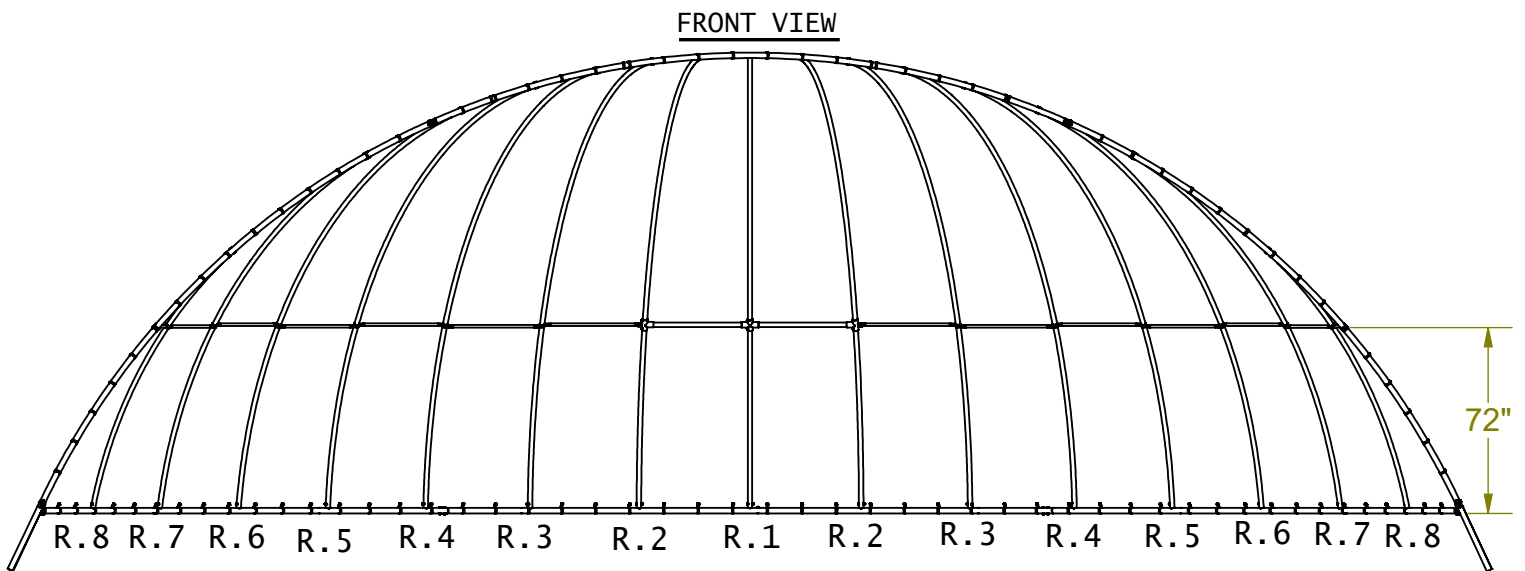
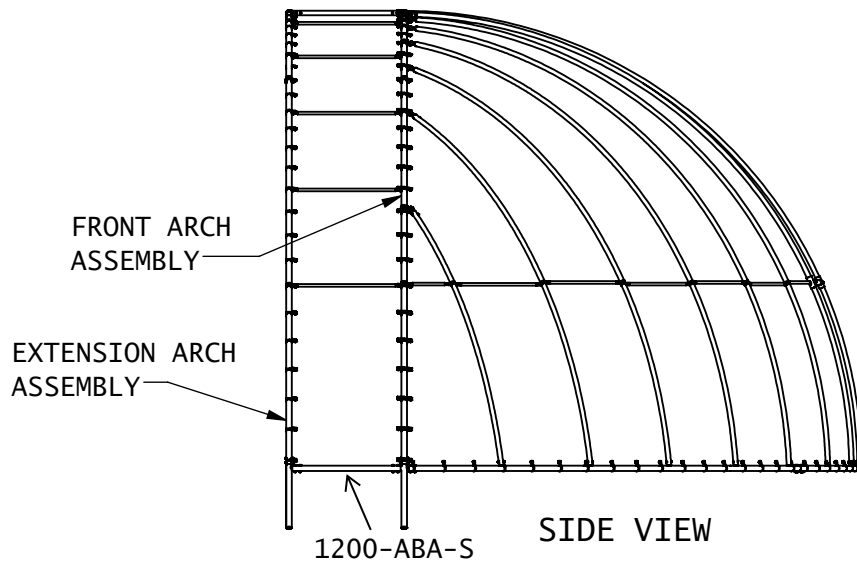
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HOODED BACKSTOP

MODEL NO.

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PRODUCT NAME

ARCH BACKSTOP

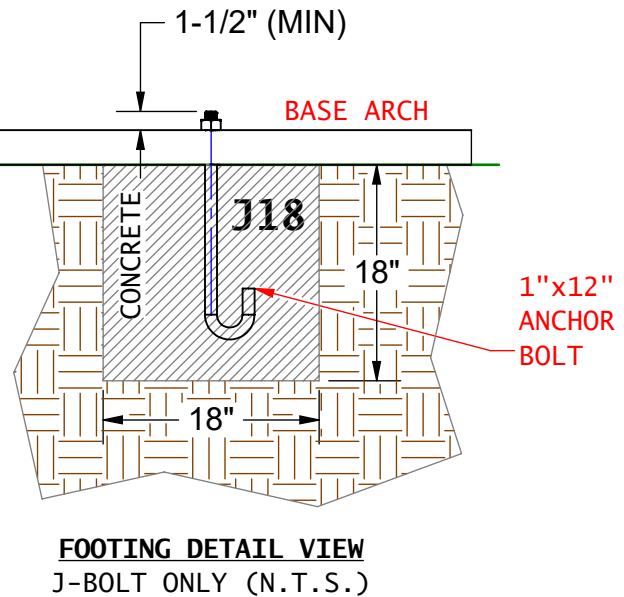
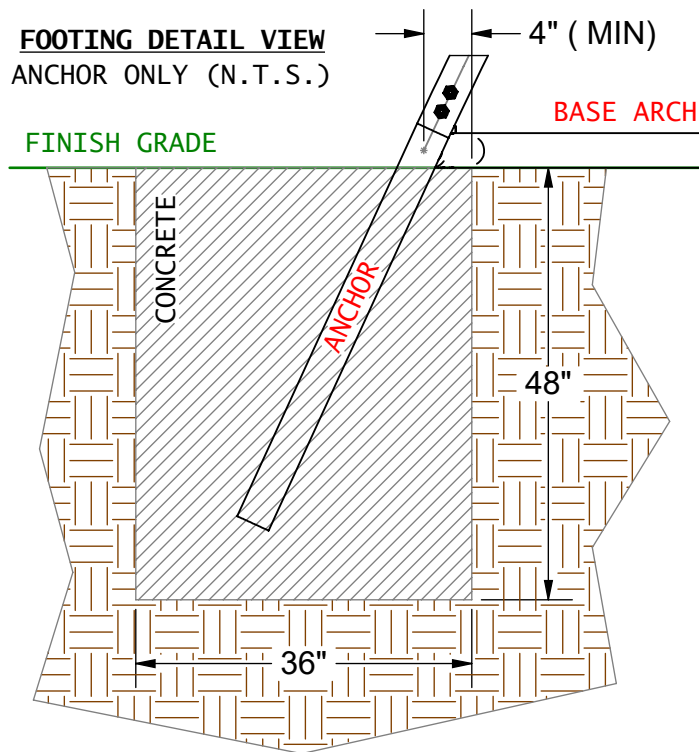
MODEL NO.

1216-05

FOOTING DETAIL -00

(DETAIL IS SHOWN FROM THE **FRONT** ELEVATION)

FOOTING DETAIL VIEW
ANCHOR ONLY (N.T.S.)

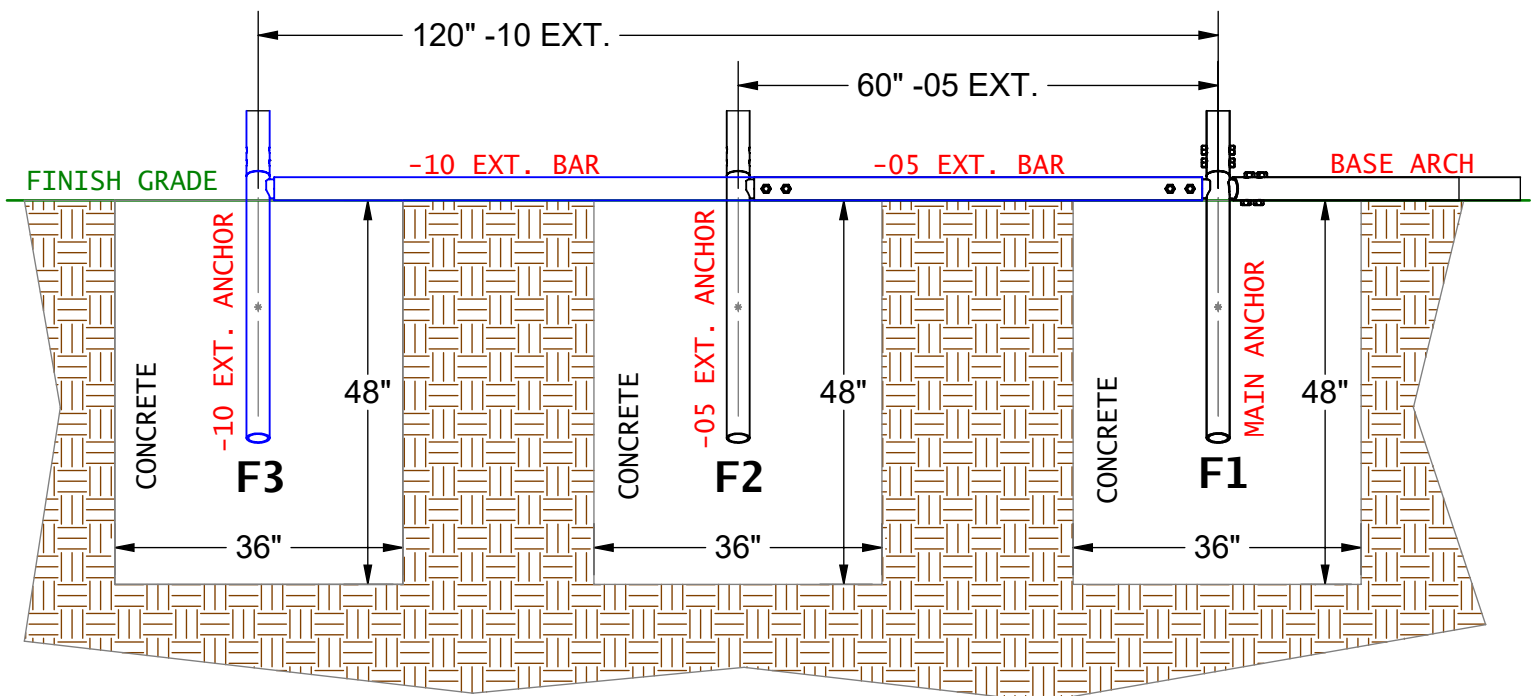


FOOTING DETAIL VIEW
J-BOLT ONLY (N.T.S.)

FOOTING DETAIL -05 & -10 EXT.

(DETAIL IS SHOWN FROM THE **SIDE** ELEVATION)
EXT. DETAIL ONLY USE THE OPTIONS YOU NEED

FOOTING CHART	
MODEL #	ONLY USE
1216-00	F1
1216-05	F1 & F2
1216-10	F1 & F3



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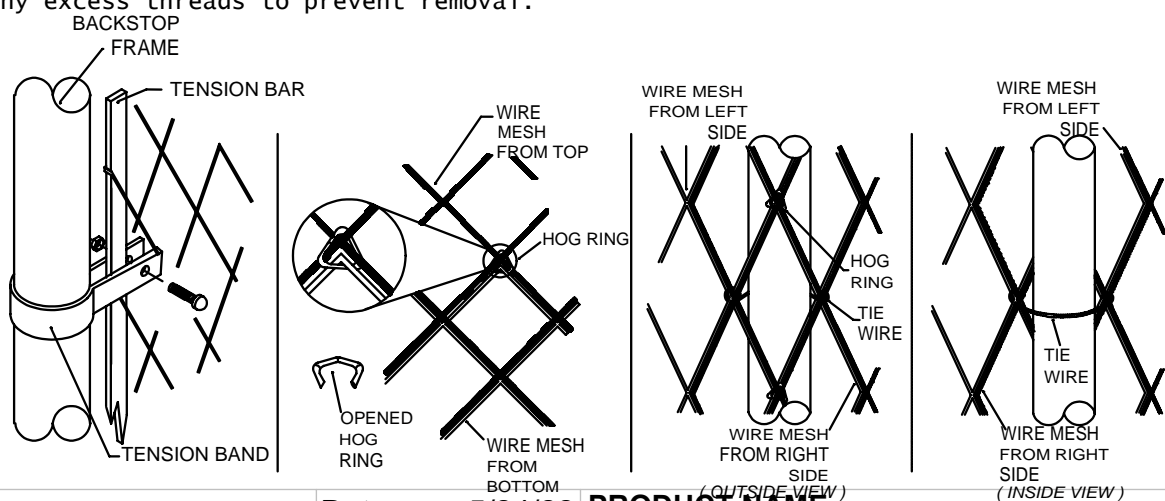
HOODED BACKSTOP

MODEL NO.

1216-00-SPEC

Installation of WIRE MESH (See Detail Below) Mesh is installed in 3 of 4 courses depending on model selected.

- 7.0 1st or bottom course: 2' - 9ga (6c if vinyl) x 12' width (Supplied lengths,[2] 50' rolls if galvanized or [4] 25' rolls if Vinyl coated. MUST be field spliced)
- 7.1 Splice the lengths of 12'- 9ga mesh into one 85' length.
- 7.2 Stand the wire up on edge and position on the outside of the frame so the bottom edge is flush with the bottom of the BASE arch, and so it is centered.
- 7.3 Secure Mesh to the center rib only with tie-wire on 12" centers.
- 7.4 Pull mesh tight to each end. trim excess on the bias about 2" short of the OVERHEAD arch at both ends to allow room for tension bars and bands.
- 7.5 Install on 12' tension bar in the mesh at each end (parallel to OVERHEAD arch) so the tops of the bars are flush with the top of the mesh. Where the bars do not fit through properly, the cut ends of must be twisted around the bars to prevent unravelling of the mesh. Make sure there are no exposed sharp wires. (see Mesh detail below)
- 7.6 Pull mesh as tight as possible, as it will save having extra work later.
- 7.7 Install tension bands on 18" centers on the OVERHEAD arch up to the top of the mesh. Secure Bands with 5/16" x 1-1/4" carriage bolts, flat washers and Nylock nuts with bolt head facing outside.
- 7.8 Tighten hardware securely.
- 7.9 If the top few feet of the mesh are sill loose or sag between ribs then proceed with this step:
 - a. Starting at the center rib at the top of the mesh cut along the rib downward to about 12" above where the mesh is tight. NOTE: Never cut more than 12" below the stiffeners (1" O.D. steel between ribs).
 - b. Pull the mesh tight starting at the bottom of the cut working upward using hog rings secure approximately every other diamond.
 - c. Cut away the excess (the usual amount of excess at the top is 4 to 6") allowing enough wire to be left to twist the cut ends together.
 - d. Use more hog rings and/or tie-wire as necessary to completely secure the seam. (See mesh detail.)
 - e. If the top of the mesh is still loose or sags repeat steps for each rib until it is tight. NOTE: this does NOT necessarily mean this needs to be done at each rib, only until tight. work from center rib outward alternating right and left. Some of the outer ribs may not be necessary but it may be necessary to gather on or two strands together and secure with hog rings.
- 7.10 Secure the mesh to all of the ribs with tie wire on 18" centers.
- 7.11 Install the bottom 10' tension bars in the second diamond from the bottom of the mesh. Feed bars through the mesh starting at one end working to the opposite end.
- 7.12 Overlap the ends of the tension bars a few inches at the ends. The last tension bar must be cut to size so it fits flush with the inside edge of the OVERHEAD arch. NOTE: the bars must be installed after the mesh is tight (if not, the mesh will not conform to the shape of the backstop.)
- 7.13 To install the tension bands, it may be necessary to loosen nuts on anchor bolts and raise the BASE arch slightly so the will fit underneath. install bands on 18" centers all along the BASE arch. Secure with 5/16"x1-1/4" carriage bolts, flat washers and nylock nuts. (with heads facing outside of the tension bars) along the BASE arch. Use hog rings to secure overlap of tension bars.
- 7.14 Tighten anchor bolt nuts securely so the base arch is in contact with the anchor footings. cut and peen any excess threads to prevent removal.



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BASEBALL BACKSTOP

MODEL NO.

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1216-00 BOM

13	1216-CBA-SA	Center Base Arch Weldment	1
2	1216-LRBA-SA	Left Base Arch Weldment	1
3	1216-LRBA-SA	Right Base Arch Weldment	1
4	1216-COA-SA	Center Overhead Arch Weldment	1
5	LROA-1216-278	Left & Right Overhead Arch 2-7/8" Pipe	2
6	1200-ABA-S	Arch Backstop Left Anchor Weldment	1
7	1200-ABA-S	Arch Backstop Right Anchor Weldment	1
8	R1-1216-238	Rib #1 Chord 332-1/2"	1
9	R2-1216-238	Rib #2 Chord 331"	2
10	R3-1216-238	Rib #3 Chord 322"	2
11	R4-1216-238	Rib #4 Chord 312"	2
12	R5-1216-238	Rib #5 Chord 296"	2
13	R6-1216-238	Rib #6 Chord 270"	2
14	R7-1216-238	Rib #7 Chord 229"	2
15	R8-1216-238	Rib #8 Chord 157"	2
16	ASA-501-1200-G	Heavy Duty Adj. Collar	12
17	RT-019-1200-1000-G	FLATTENED SLEEVE - 1-7/8"	12
18	ASA-0508-1216-G	Center Tee Brace Fitting	1
19	ASA-0509-1216-L-G	Left Tee Brace Fitting	1
20	ASA-0510-1216-R-G	Right Tee Brace Fitting	1
21	RT-1216-238-52-G	CENTER HORIZONTAL STIFFENER 52"	2
22	RT-1216-138-51-G	HORIZONTAL STIFFENER 51"	12
23	VCIBB238	2 3/8" BRACE BAND	22
24	VCITEN278	2-7/8" TENSION BAND	42
26	HWHB5835	5/8-11x3-1/2" GR5 C/S ZINC HEX CAP SCREW-BOLT	10
27	HWLN58	5/8-11 NYLOCK LOCKNUT ZINC	10
28	HWCB38114	3/8-16x1-1/4" GR5 C/S ZINC CARRIAGE BOLT	12
29	HWLN38	3/8-16 NYLOCK LOCKNUT ZINC	12
30	HWFLWA38	3/8" FLAT WASHER	24
31	HWSC3858	3/8x5/8 SET SCREW ZINC	30
32	HWSC581	5/8-11x1 SET SCREW CUP PT ZINC	38
33	HWFLWA516	5/16" FLAT WASHER	164
34	HWCB516114	5/16-18 x 1-1/4" CARRIAGE BOLT GR2 ZINC	164
35	HWLN516	5/16 NYLOCK NUT ZINC	164
36	HWDS141	1/4x1 ROUND HD U-DRIVE SCREWS ZINC	6
37	VCITIEWIRE	TIE DOWN WIRE 10 1/2"x12GA W/ HOOK	17LBS
38	VCIHOGRINGS	HOG RINGS - HOG STL 9X 1-9/16 GAL	5 LBS
39	RMMESHBK298	2" X 9C (6F) X 8' BLACK MESH KK	G100' / V75'
40	RMMESHBK2912	2" X 9C (6F) X 12' BLACK MESH KK	100'
41	RMMESHBK21112	2" X 11C (8F) X 12' BLACK MESH KK	50'
42	VCITBAR8	8' x 3/4 TENSION BAR (120")	2
43	VCITBAR12	12' x 3/4" TENSION BAR (142")	4
44	HWANCH5812	5/8-11x12" ANCHOR BOLT W/NUT PLAIN	7
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MODEL NO.

1216-00-SPEC

- 2nd Course: 2" - 9Ga(6F if Vinyl) X 8' Width, 65' long (supplied [2] 50' rolls of galvanized Or [3] Rolls if Vinyl.) Splice the pieces together to achieve desired length.
- 8.0 Raise into position on frame and center. Align the center of the bottom edge with the top of the center edge of the first course lapping one diamond. At the ends of the second, the bottom edges will overlap first course at each end. (See mesh detail Pg. 11.)
 - 8.1 Secure the mesh to the center rib with tie wire on 12' centers. Pull Mesh tight to each end. Trim the excess on the bias about 2' short of the OVERHEAD arch at both ends to allow room for tension bars and bands.
 - 8.2 Install one 8" tension bar in the mesh at each end (parallel to the OVERHEAD arch) so the bottoms of the bars overlap the top ends of the tension bars on the first course by two inches. where the bars do not fit through the mesh properly, the cut ends of the wire must be twisted around the bars to prevent unraveling of the mesh. Make sure there are no exposed sharp wires.
 - 8.3 Pull the mesh as tight as possible, as this will save extra work later.
 - 8.4 Install Tension Bands on 18" centers up to the top of the mesh. NOTE: Do NOT install tension bands beyond the top of the mesh until the third course is installed. Secure with 5/16" x 1" carriage bolts flat washer and Nylock with heads facing outside.
 - 8.5 Tighten all hardware securely. Use hog rings to secure overlap of tension bars.
 - 8.6 If mesh appears loose or sags repeat steps (7.10 a-e)
 - 8.7 Secure two courses of mesh together with hog rings every other diamond. Twist cut wire ends around the course making sure no sharp wires are exposed.
 - 8.8 Secure the mesh to all of the ribs with tie-wire on 18" centers.

3rd Course: 2" - 11Ga (8F if Vinyl) X 12' width, 50' long

- 9.0 Raise into position on frame and center. Align the center of the bottom edge with the top center edge of the first course lapping one diamond. At the ends of the second course, the bottom edges will overlap first course at each end. (See detail Pg. 11)
- 9.1 Secure the mesh to the center rib with tie-wire on 12" centers. Pull mesh tight to each end. Trim the excess on the bias about 2" short of the OVERHEAD arch at both ends to allow room for tension bars and bands.
- 9.2 Install one 12' tension bar at each end (parallel to the OVERHEAD arch) so the bottom of the bars overlap the top ends of the tension bars on the 2nd course by two inches. Where the bars do not fit through the mesh properly the cut ends of the wire must be twisted around the bars to prevent unraveling of the mesh. Make sure there are no exposed sharp wires.
- 9.3 Pull mesh as tight as possible, as it will save having extra work later.
- 9.4 Install tension bands on 18" centers up to the top of the mesh. NOTE: Do NOT install tension bands beyond the top of the mesh.
- 9.5 Tighten hardware securely. Use hog rings to secure overlap of the tension bars.
- 9.6 If mesh appears to be loose or sagging repeat step (7.10 a-e)
- 9.7 Secure the two courses of mesh together with hog rings every other diamond. Twist cut wires around the second course making sure there are no sharp wires exposed.
- 9.8 Secure the mesh to all of the ribs with tie-wire on 18" centers.
- 9.9 Secure remaining mesh along OVERHEAD arch with tie-wire on 18" centers.
- 9.10 Inspect complete backstop for loose hardware, fittings, and sharp wires. Repair as necessary.

THIS concludes the 1216-00 Installation steps congratulations. However if you have a -05 or -10 model you will need to proceed.



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PRODUCT NAME

BASEBALL BACKSTOP

MODEL NO.

1216-00-SPEC

MODEL #1216-05 - ARCH BACKSTOP 20'H x 20'D x 62'W W/ 5' EXTENSION (5,000 LBS)
MODEL #1216-10 - ARCH BACKSTOP 20'H x 20'D x 62'W W/ 10' EXTENSION (6,000 LBS)

SPECIFICATIONS: ADD ONS

Overhead Arch Sections: 2-7/8" O.D. galvanized steel.

Flattened Sleeves: 1-7/8" O.D. galvanized steel, factory flattened and punched. Secured between PW Heavy Duty Rib Collars and vertical ribs with zinc plated 3/8" x 1-1/4" bolts, flat washers and lock nuts. To ribs with 3/8" set screw.

Extension Stiffeners: 2-7/8" and 2-3/8" O.D. Welded 5/8" Hex Nut for attachment at both ends of stiffeners. At top center and Base. All others are secured with H.D. collars and Flattened Sleeves.

Main Footing Anchors: 2-7/8" O.D. galvanized steel, welded sleeves that fit into BASE and OVERHEAD arch ends (2-3/8" O.D. galvanized steel). Footing anchors shall extend 3 feet into footings and shall be welded at the bottom with one piece of 6" long angle (2" x 2" x 3/16") steel, to form an anchor in the concrete footing.

PW Heavy Duty Rib Collars: Custom made 2-7/8" P.W. Heavy Duty Rib Adapter Collars.

Concrete Footing: Footings for OVERHEAD arch shall be 4' deep x 3' in wide. This is to allow the anchors to retain the proper angle going into the footing. this is an important step in insuring that your backstop will be easy to erect, and retain the proper rolled radii. Footings for BASE arch anchor bolts shall be 18" deep x 18" wide. Concrete not included.

Finish: All pipe and hardware is galvanized steel. All fasteners are zinc-plated except anchor bolts.

Installation of Mesh on Extension:

Installation of the 4th course - Splice 9Ga x 5' or 10' mesh into one 80' length.

10.0 For the 5' and 10' extensions slide 10' tension bars into along the 80' lengths, then place mesh assembly on top of extension.

10.1 Pull mesh tightly over the arch extension and secure it at the other bottoms with tie-wire

10.2 Use 2-7/8" tension bands with 5/16" carriage bolts, flat washers, and nylock nuts to secure leading and rear edges of mesh.

10.3 Inspect the complete backstop for loose hardware, fittings, and sharp wires. Repair as necessary.

Congratulations Now you to are finished .



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PRODUCT NAME

BASEBALL BACKSTOP

MODEL NO.

1216-00-SPEC

1216-05 & 1216-10 EXTENSION ADD ON'S BOM

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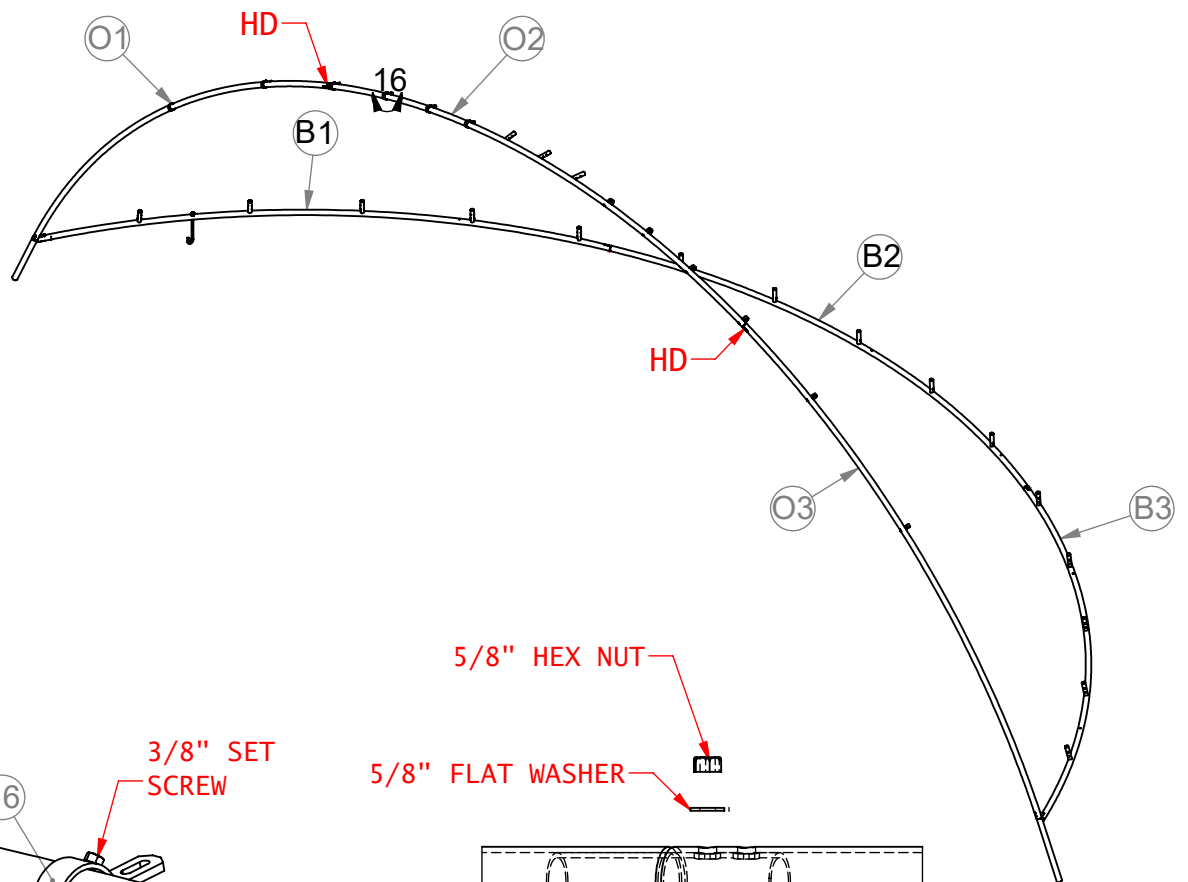
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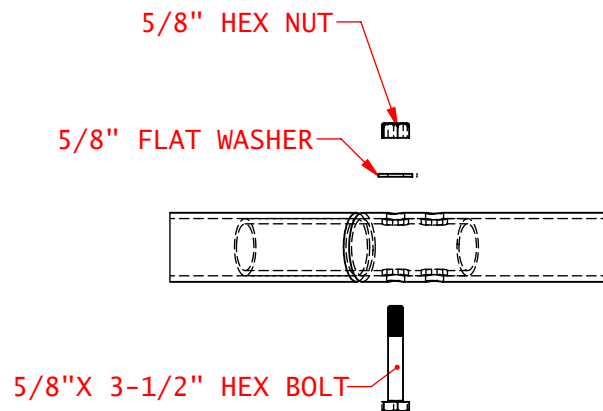
BASEBALL BACKSTOP

MODEL NO.

1216-00-SPEC



16 DETAIL
OVERHEAD ARCH ONLY
RIBS 3-8



HARDWARE DETAIL
OVERHEAD ARCH ONLY



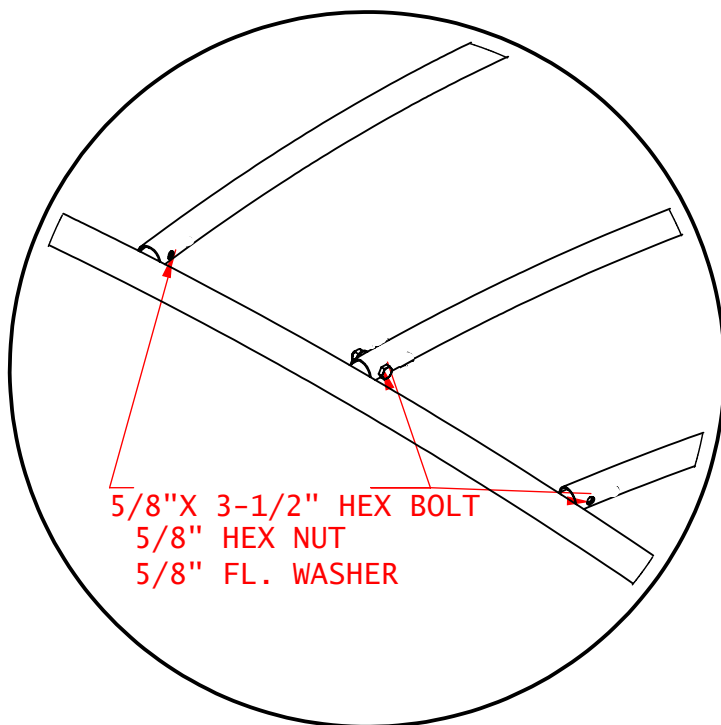
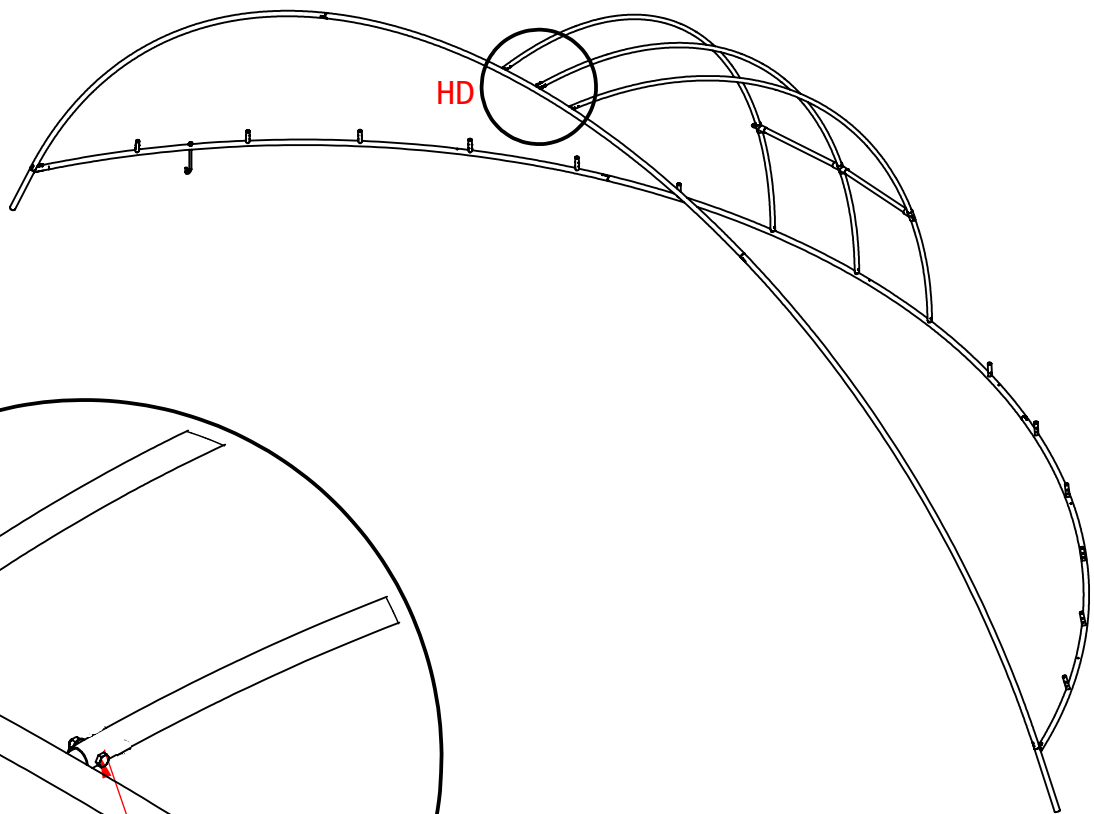
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PRODUCT NAME

HOODED BACKSTOP

MODEL NO.

1216-00-SPEC



5/8"X 3-1/2" HEX BOLT
5/8" HEX NUT
5/8" FL. WASHER

HARDWARE DETAIL VIEW
RIBS 1 & 2 CONNECTION
TO OVERHEAD ARCH
[HD=Hardware Detail Location]



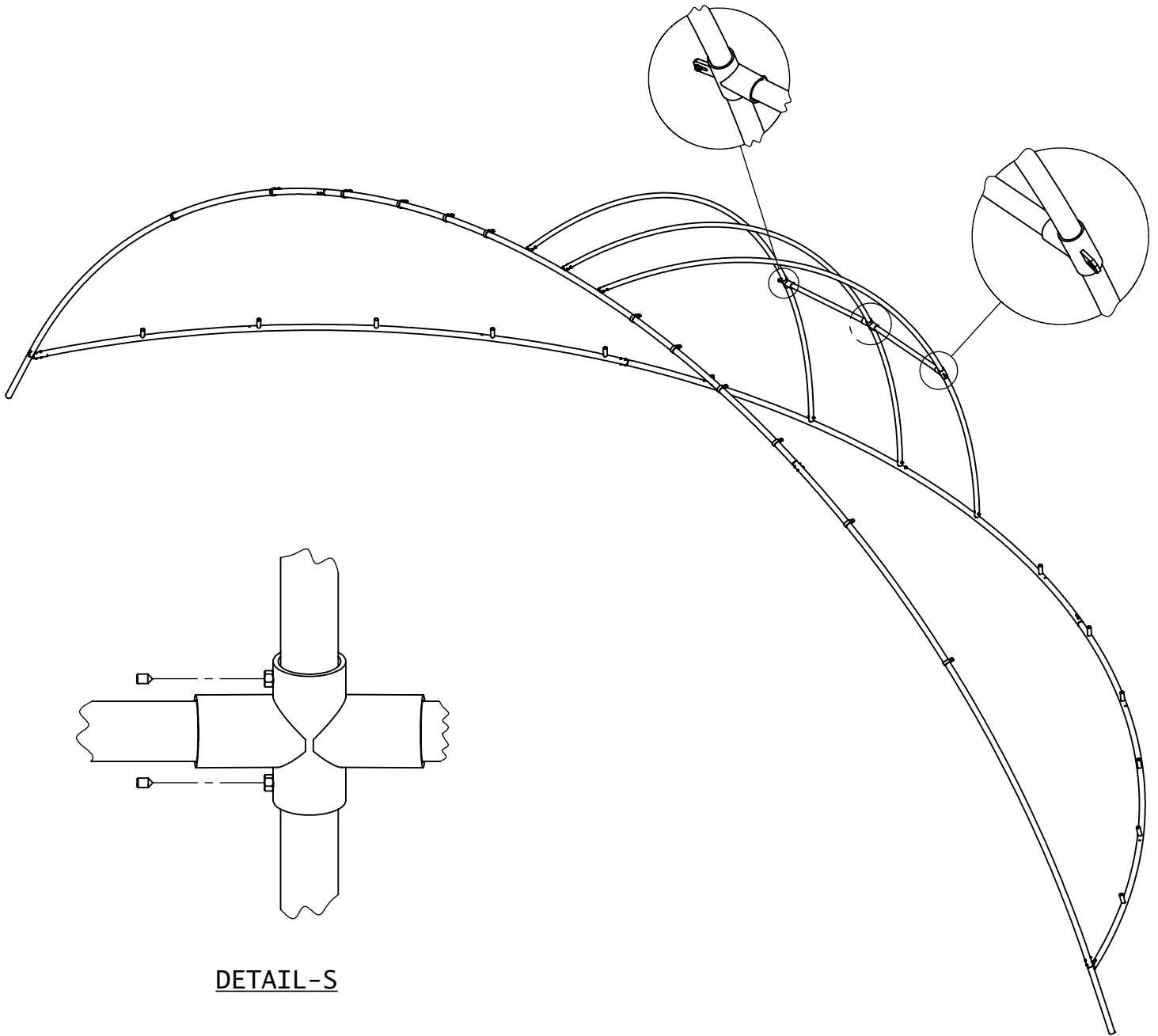
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PRODUCT NAME

HOODED BACKSTOP

MODEL NO.

1216-00-SPEC



DETAIL-S



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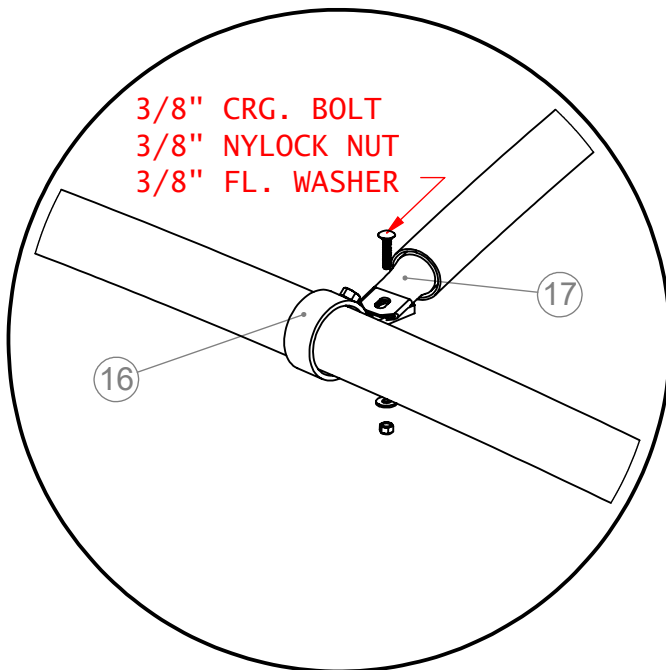
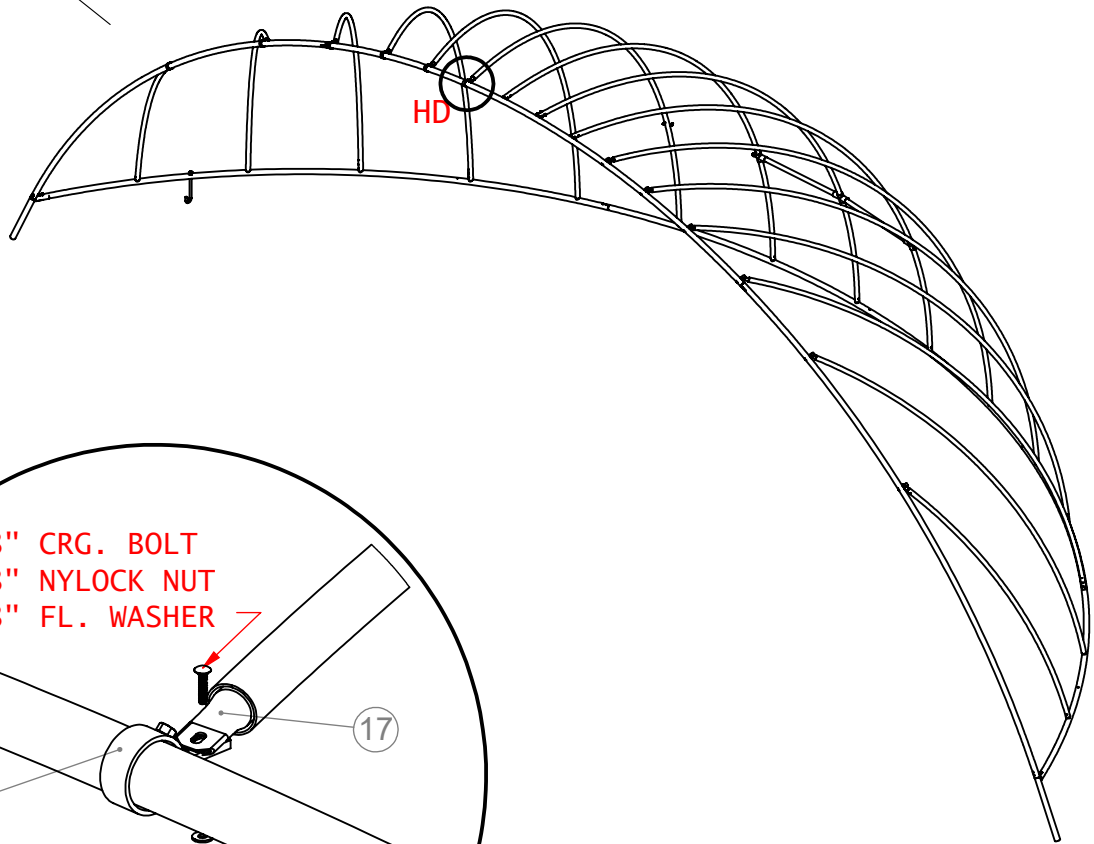
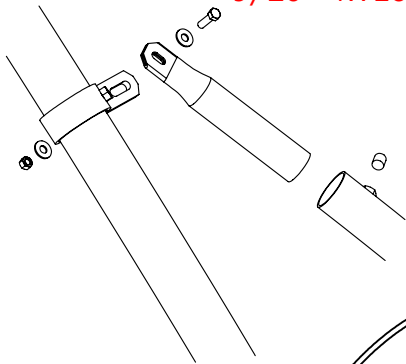
PRODUCT NAME

ARCH BACKSTOP

MODEL NO. SS

1216-05

5/16" CRG. BOLT
5/16" FLAT WASHERS
5/16" NYLOCK NUT



3/8" CRG. BOLT
3/8" NYLOCK NUT
3/8" FL. WASHER

HARDWARE DETAIL VIEW
RIBS 3 THRU 8 CONNECTION
TO OVERHEAD ARCH



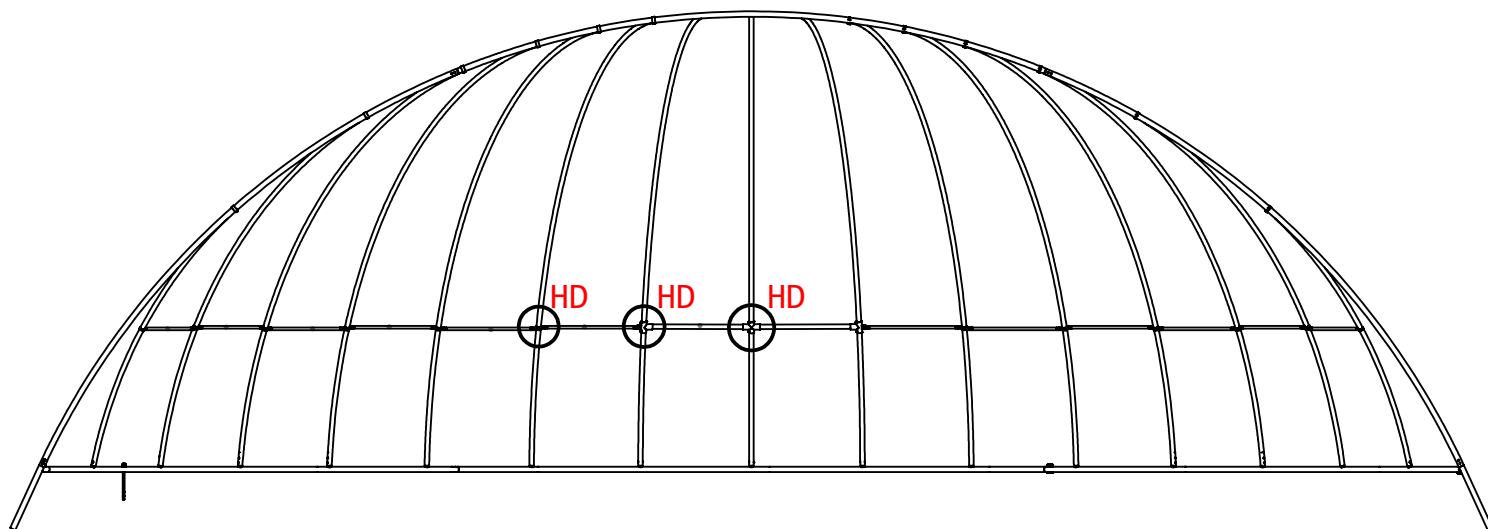
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PRODUCT NAME

HOODED BACKSTOP

MODEL NO.

1216-00-SPEC

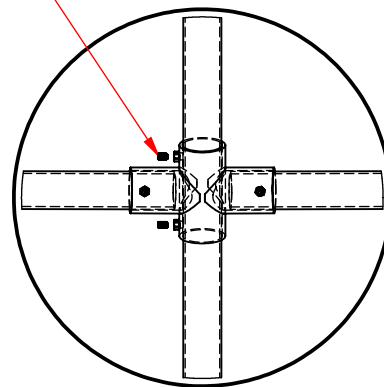
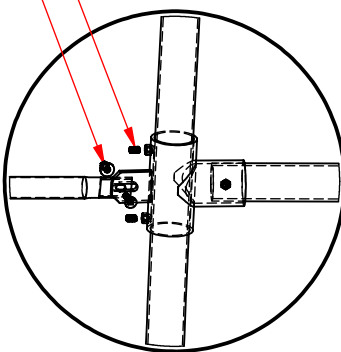
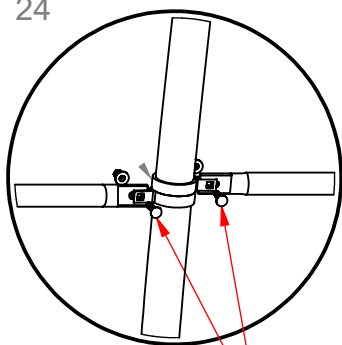


5/16" CRG. BOLT
5/16" NYLOCK NUT
5/16" FL. WASHER

3/8" x 5/8"
SET SCREW (3)

3/8" x 5/8"
SET SCREW (4)

24



5/16" CRG. BOLT
5/16" NYLOCK NUT
5/16" FL. WASHER

HARDWARE DETAIL VIEWS RIB BRACING ONLY



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PRODUCT NAME

HOODED BACKSTOP

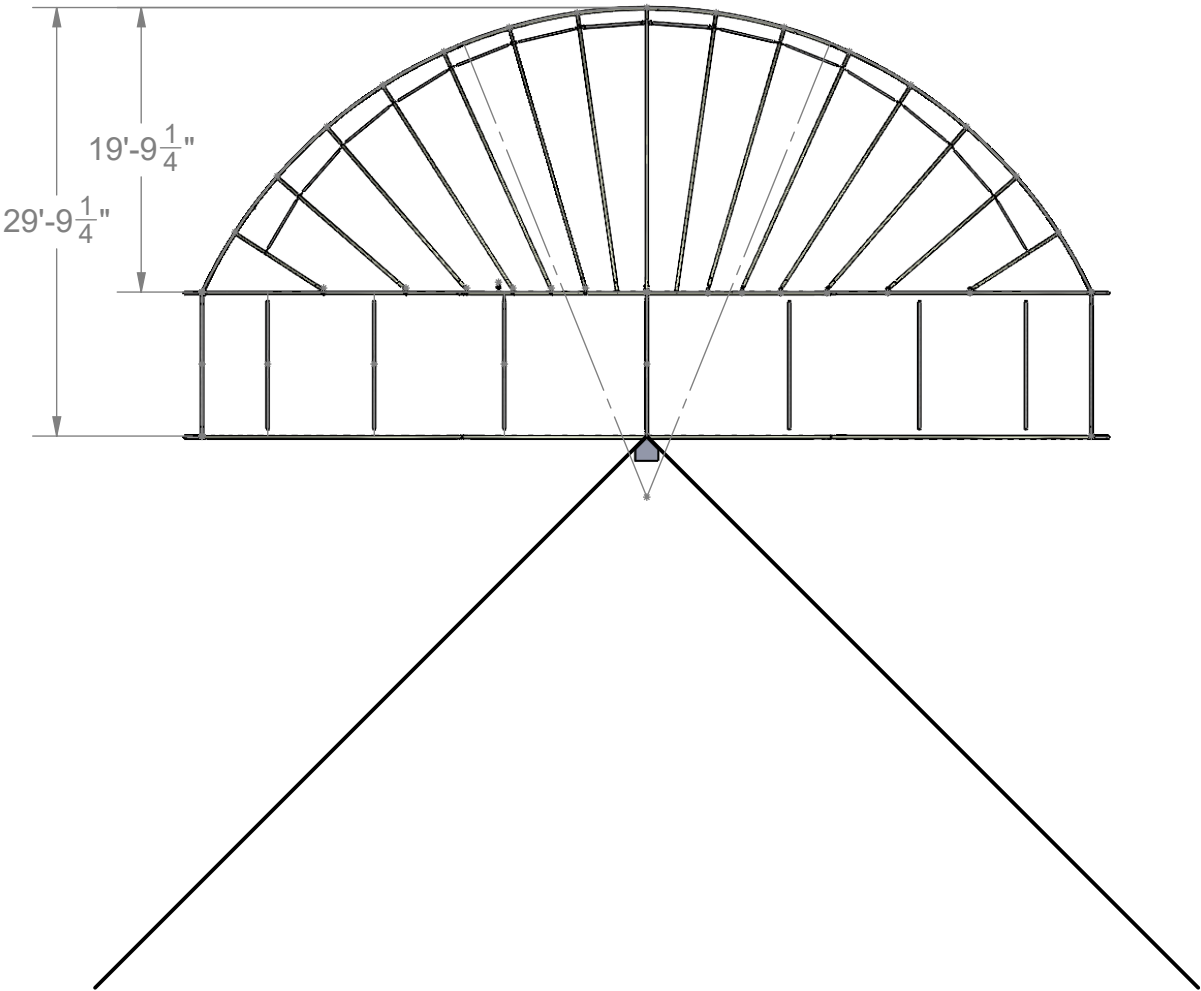
MODEL NO.


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BACKSTOP POSITION IN RELATION TO HOMEPLATE LOCATION

(DETAIL IS SHOWN FROM AN AERIAL VIEW WITH 10' EXT.)

NOTE: Extension ribs are a representation.



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