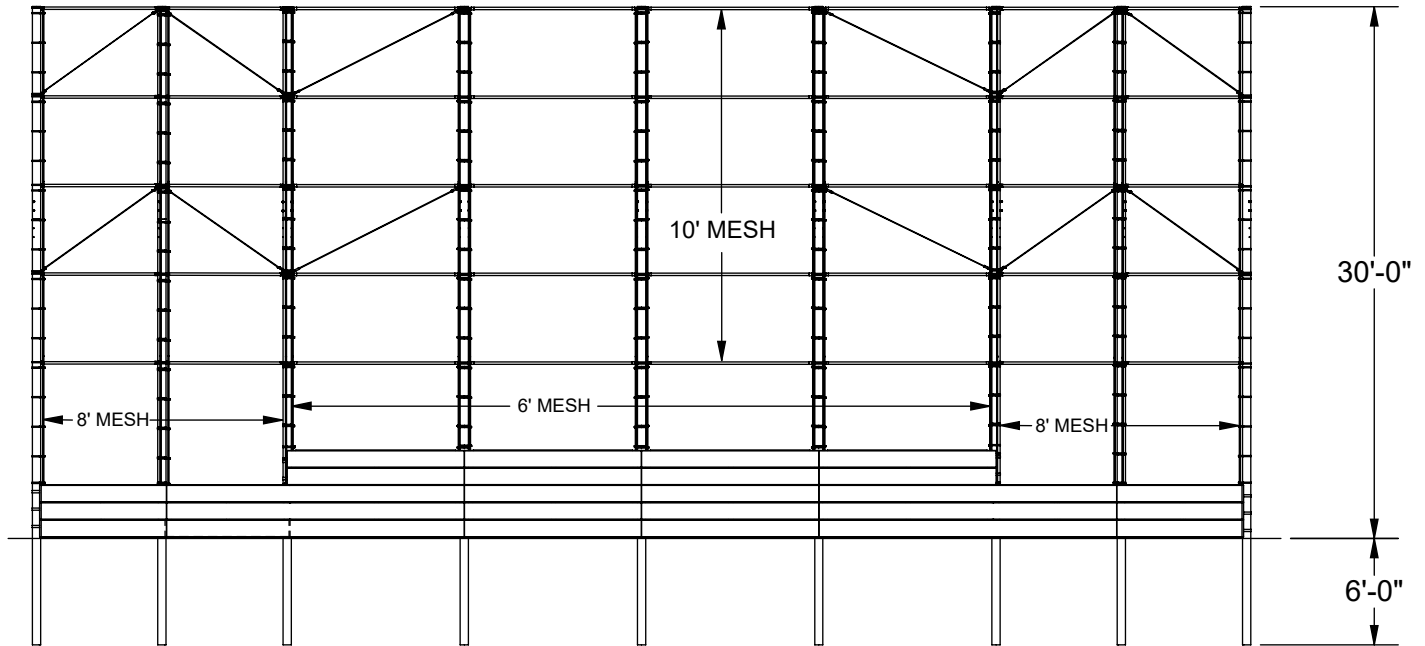


# TRADITIONAL BACKSTOP INSTALLATION INSTRUCTIONS

## LA-BS-35



Description: A heavy duty backstop shipped unassembled with all parts and instructions for assembly.

Materials: All pipe and fittings are galvanized steel. Sizes given are outside diameter and exposed ends are capped.

Specifications	Size
Vertical Posts	5-9/16"
Horizontal Rails	1-5/8"
3/8" All Thread Rods with Nuts	10' long
RCP	2" x 12"



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PRODUCT NAME  
**TRADITIONAL BACKSTOP**  
 MODEL NO.  
**LA-BS-35-SPEC**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3PLANKASSEMBLY5916	3 PLANK ASSEMBLY 5-9/16"	16
2	2PLANKASSEMBLY5916	2 PLANK ASSEMBLY 5-9/16"	8
3	VCIBB5916	5-9/16" BRACE BAND	104
4	VCIRAILEND158	1 5/8 ID RAIL END	80
5	RMPIP5916SCH40	5" I.D. (5-9/16" O.D.) X SCH 40 X 144" GAL PIPE	9
6	RMPIP5916SCH40	5" I.D. (5-9/16" O.D.) X SCH 40 X 288" GAL PIPE	9
7	RMTB158X16G	1-5/8" O.D. X 16 GA X 110" GAL. TUBE	40
8	HWCB5161	5-16"-18 X 1" CARRIAGE BOLT	344
9	HWFLWA516	5/16" USS FLAT WASHER	648
10	HWLN516	5/16"-18 LOCK NUT	344
11	HWSC3858	3/8"-16 X 5/8" SET SCREW	64
12	HWSSLS14112	1/4" X 1-1/2" STAINLESS STEEL LAG SCREW	314
13	HWHB12612	1/2"-13 X 6-1/2" GR5 HEX BOLT PLN	18
14	HWFLWA12	1/2" USS FLAT WASHER ZINC	36
15	HWLN12	1/2"-13 SS NYLOCK NUT	18
16	HWFLWA38	3/8" USS FLAT WASHER ZINC	60
17	HWCB38114	3/8" X 1-1/4" CARRIAGE BOLT	24
18	HWLN38	3/8" NYLOK NUT ZINC	24
19	HWHN38Z	3/8" HEX NUT ZINC	36
20	VCIRP21210GRN	2" X 12" X 120" RCP PLANK	32
21	BSPLANKANGLE	2" X 2" ANGLE 108" LONG PLANK CAP	16
22	BS3PLKANG	CENTER PLANK SUPPORT	4
23	VCITEN5916	5-9/16" TENSION BAND	264
24	VCITBAR8	8' X 3/4" TENSION BAR	8
25	VCITBAR10	10' X 3/4" TENSION BAR (118")	32
26	VCITBAR12	12' X 3/4" TENSION BAR (142")	4
27	BSPLKSTRAP	ALUMINUM MESH ATTACHMENT BAR	16
28	BS5PLKANG	CENTER PLANK SUPPORT	4
29	VCITT	INDUSTRIAL TRUSS TIGHTENER FOR 3/8" TRUSS ROD	24
30	HWAT3810	3/8" X 10' ALL THREAD	12
31	HSWPLW38	3/8" SPLIT WASHER ZINC	12
32	RMMESHGA2910	2" X 9 GA X 10' GAL MESH KK	200'
33	RMMESHGA296	2" X 9 GA X 6' GAL MESH	50'
34	RMMESHGA298	2" X 9 GA X 8' GAL MESH	50'
35	VCITIEWIRE	TIE DOWN WIRE 10-1/2" X 12 GA WITH HOOK	336



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PRODUCT NAME

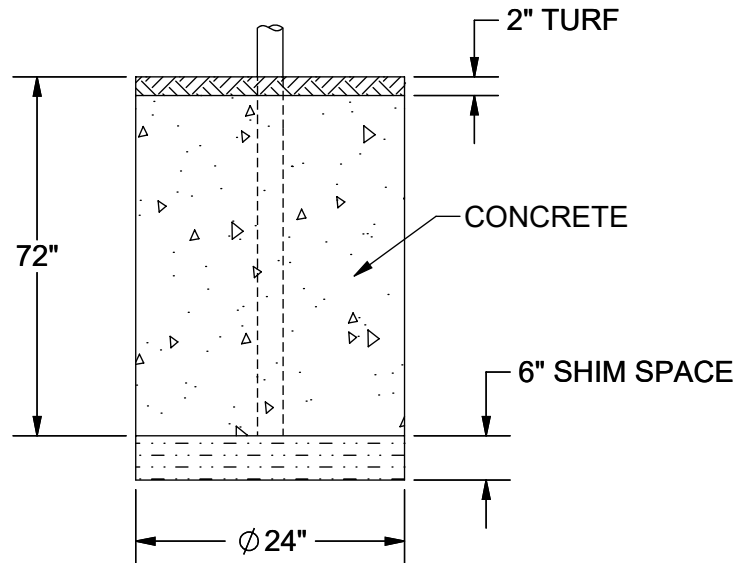
**TRADITIONAL BACKSTOP**

MODEL NO.

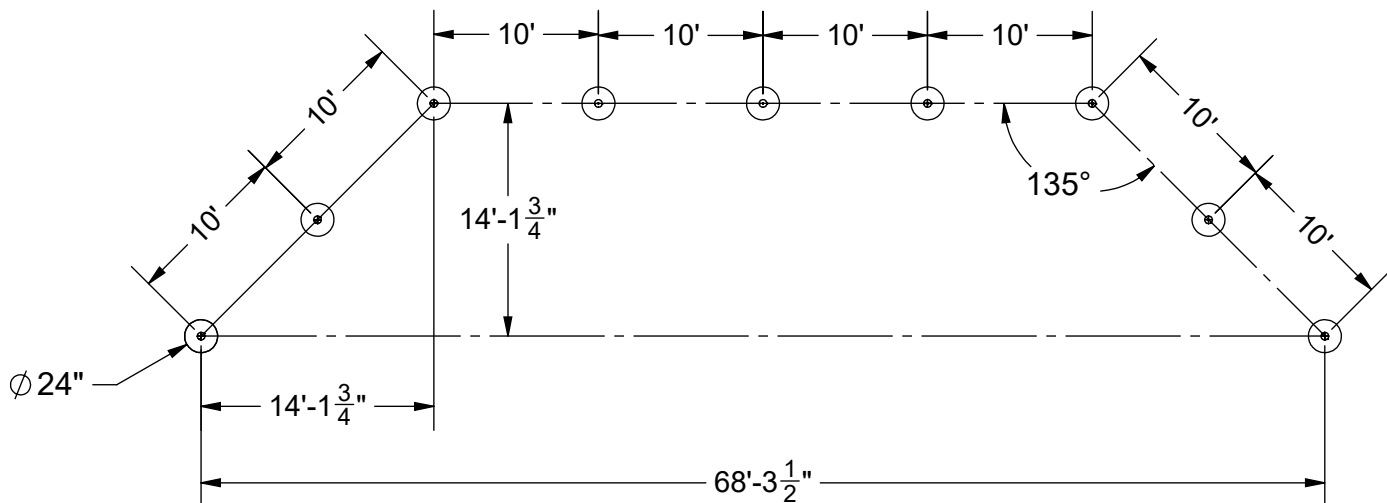
**LA-BS-35-SPEC**

## FOOTING DETAIL

- 1) Determine the location of the backstop by making sure the rear panel is perpendicular to a line running from 2nd base through home plate. The wings are parallel with the sides of the diamond.
  - 2) Dig the holes according to the Footing Dimensions and Footing Detail below. Place all the 5-9/16" O.D. posts (with the sleeve extensions at the top) into the footing holes with the top of the sleeve **20'-0"** above finish grade. With the proper spacing established, plumb all the posts and pour the concrete into the footing holes up to 2" of finish grade and let set for three days before removing the bracing.
- NOTE: Footing sizes are based on the assumed soil bearing pressures from IBC 1807.**



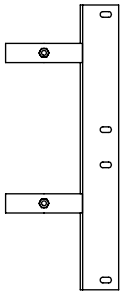
FOOTING DETAIL



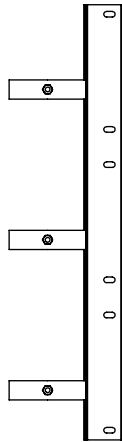
FOOTING DIMENSIONS

# PARTS LIST

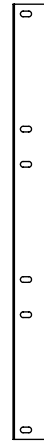
Check materials received with the BOM to ensure all components are included and that the unit is complete.



2PLANKASSEMBLY5916



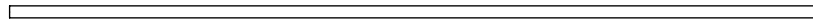
3PLANKASSEMBLY5916



BS3PLKANG



BS5PLKANG



RMTB158X16G



RMPIP5916SCH40 (12 FT)



RMPIP5916SCH40 (24 FT) WITH EXTENSION



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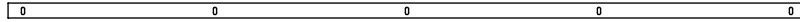
PRODUCT NAME  
**TRADITIONAL BACKSTOP**  
MODEL NO.  
**LA-BS-35-SPEC**

# PARTS LIST

Check materials received with the BOM to ensure all components are included and that the unit is complete.



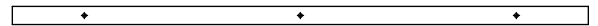
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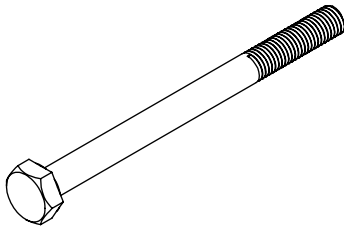
BSPLANKANGLE

VCITBAR8/10/12

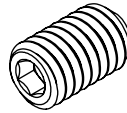
HWAT3810



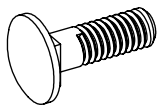
BSPLKSTRAP



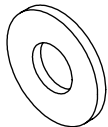
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HWSC3858



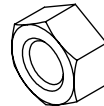
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HWCB38114



HWFLWA516/  
HWFLWA38/  
HWFLWA12



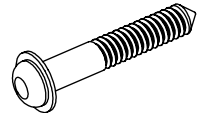
HWLN516/  
HWLN38/  
HWLN12



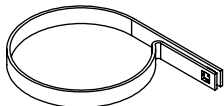
HWHN38Z



HWSPLW38



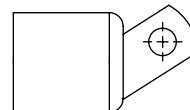
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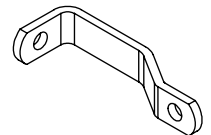
VCITEN5916



VCIBB5916



VCIRAIEND158



VCITT



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PRODUCT NAME

TRADITIONAL BACKSTOP

MODEL NO.

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# INSTALLATION INSTRUCTIONS

- 1) RC PLANK PREPARATION: Take (3) RCP planks and trim them down to 120" long. Cut a 68° angle on the end of the wing planks where they meet the center planks (see figures 1 & 3 below).  
**NOTE: the ends of some of the RCP planks may need to be chamfered to accomodate the tension bands.**
- 2) Place the (3) planks on the ground or saw horses in front of the backstop. Locate the Center Plank Angle Supports and 3 Plank Assemblies and put them on top of the evenly spaced planks. Locate the slots evenly over the (3) planks with a 1/4" gap between each plank. The end of each plank should be located at the center of the 5-9/16" collar. The (5) plank sections are made with 2 and 3 Plank Assemblies which are stacked on each other.
- 3) When everything is located properly, clamp the plates and pre-drill the holes before attaching the wood screws. Repeat this step for all the sections. Install the wood screws with washers and tighten securely.
- 4) After the planks are installed, attach the 2" X 2" Plank Caps on the top and bottom of the planks, centering them between the Plank Assemblies. Slide each plank section onto the posts with the front facing the playing field. Install the 3/8" set screws into the plank collars and tighten.

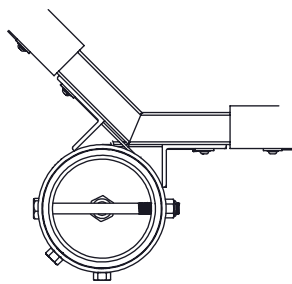


FIGURE 1

TOWARD HOME PLATE

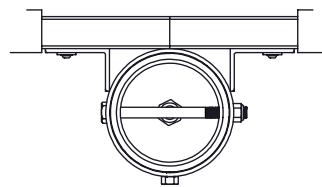


FIGURE 2

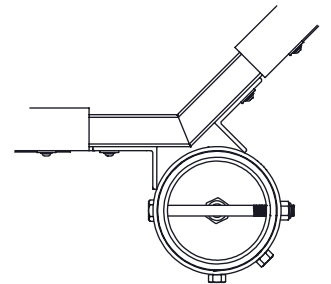
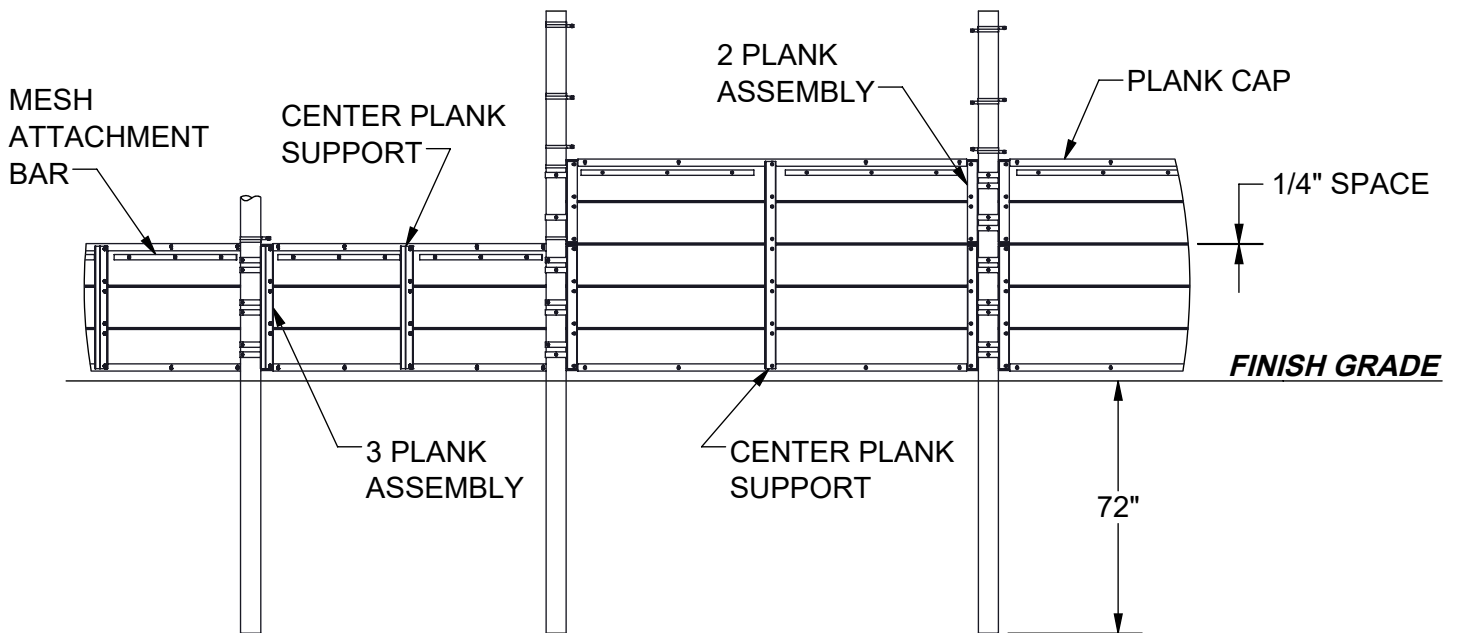


FIGURE 3



BACK VIEW



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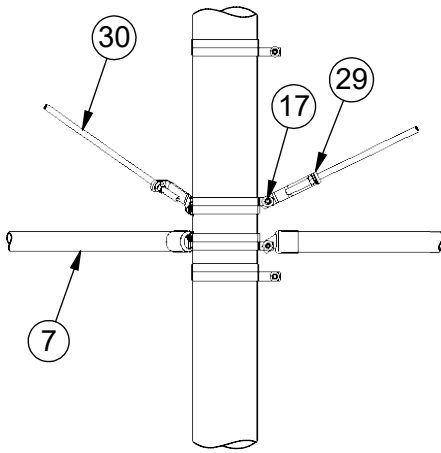
**TRADITIONAL BACKSTOP**

MODEL NO.

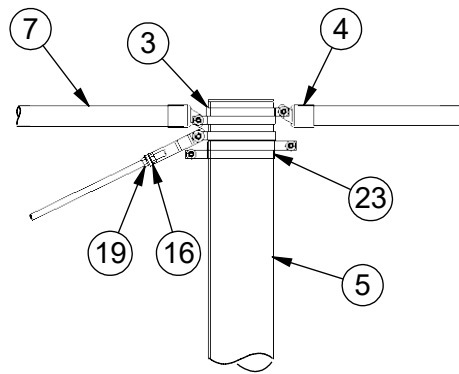
**LA-BS-35-SPEC**

## INSTALLATION INSTRUCTIONS

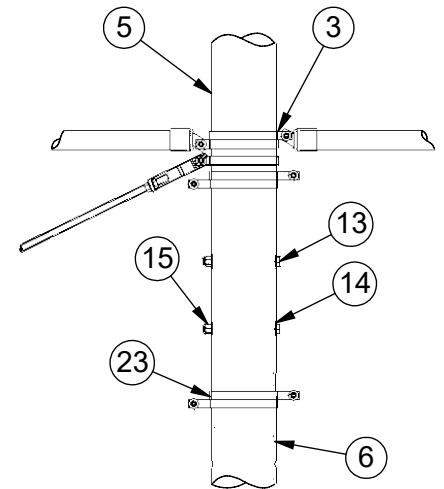
- 1) Assemble the entire backstop, starting at the bottom and working up. Slide the 12' long, 5-9/16" posts over the sleeve extensions.
  - 2) Slide the Brace Bands (3) and Tension Bands (23) onto the vertical posts and adjust them as needed.  
Install the 5/16" x 1" Carriage Bolts, flat washers and lock nuts into all the bands and tighten.
  - 3) Secure the 12' posts to the sleeve extensions with the 1/2" x 6-1/2" bolts (13), washers (14) and nuts (15).
  - 4) Install the Rail Ends (4), Horizontal Rails (7), 1" carriage bolts, 5/16" washers and nuts.
- NOTE: Make sure the round carriage bolt heads face the playing field.**
- 5) Install the 3/8" x 10' All Thread (30) at each of the areas shown. Secure the upper end with the Truss Tightener (29) using (2) 3/8" hex nuts and (2) 3/8" flat washers. The lower end is secured to the Truss Tightener with a 3/8" hex nut, split washer and 3/8" flat washer. The Truss Tightener is secured to the Brace Band using the 3/8" x 1-1/4" Carriage Bolt (17), 3/8" flat washer and 3/8" Nylock Nut.



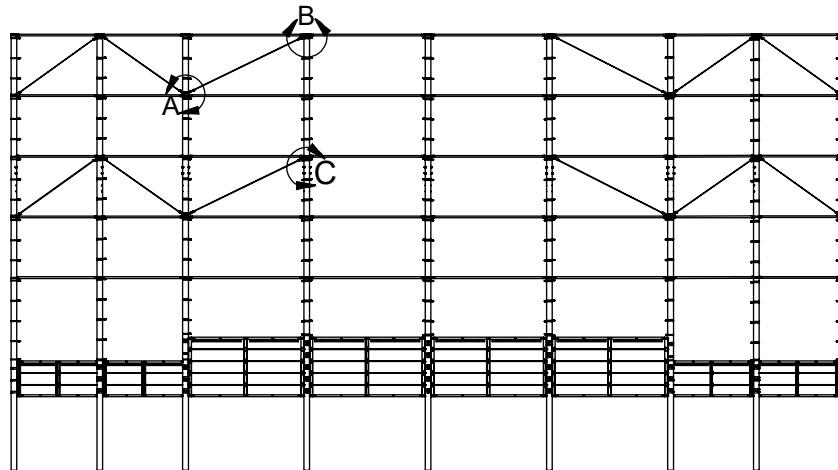
DETAIL A



DETAIL B



DETAIL C



REAR VIEW

## MESH INSTALLATION INSTRUCTIONS

The wire mesh (9 GA) is to be used along the rear panel and the wings. The mesh is cut to the approximate size and shipped in rolls.

1. The top rows use the 10 foot mesh, the two wings use 8 foot mesh and the center section uses 6 foot mesh. Attach the mesh to the front side of the posts using one Tension Bar on each end of the mesh. Secure to the posts with tension bands and bolts provided. The tension bands are arranged at 18 to 20 inch centers and parallel to the vertical posts. The mesh is to extend below and go behind the top of the Plank Caps. Notch the mesh covering the Center Plank Supports.

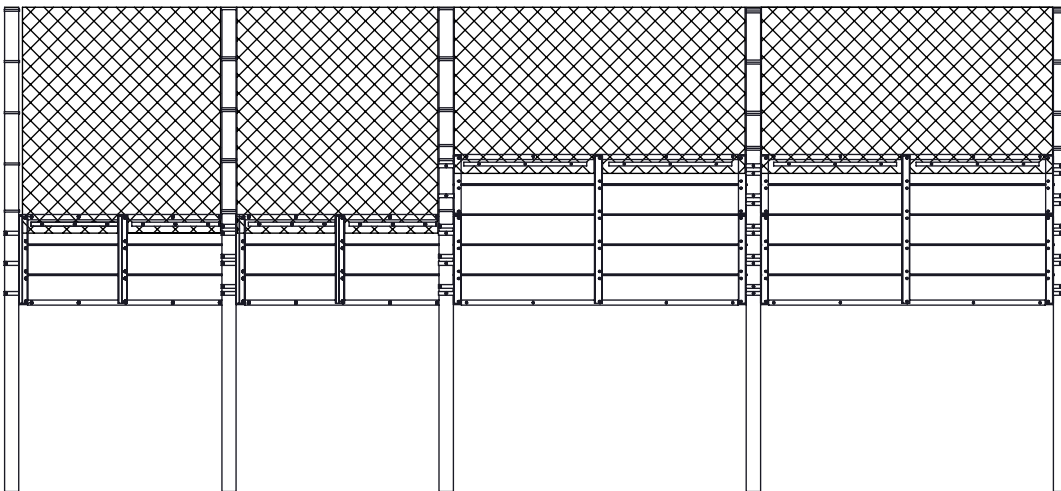
### **Tension Bar placement:**

**Bottom section of backstop (wings): 8' tension bars**

**Bottom section of backstop (center panels): 6' tension bars (cut the 12' bars in half)**

**Middle and upper section of backstop: 10' tension bars**

2. The mesh must be tight; remove strands as necessary to achieve the proper tension.
3. Install the Mesh Attachment Bar with wood screws and 5/16" washers to secure the mesh to the back side of the plank.
4. Secure the mesh to the top, center and bottom horizontal rails with tie wires every 12 inches.
5. Inspect for loose hardware and tighten as necessary. Also look for sharp wires and either cut or turn back into the fabric as necessary.
6. Replace the turf to cover the exposed tops of the footing.



REAR VIEW



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