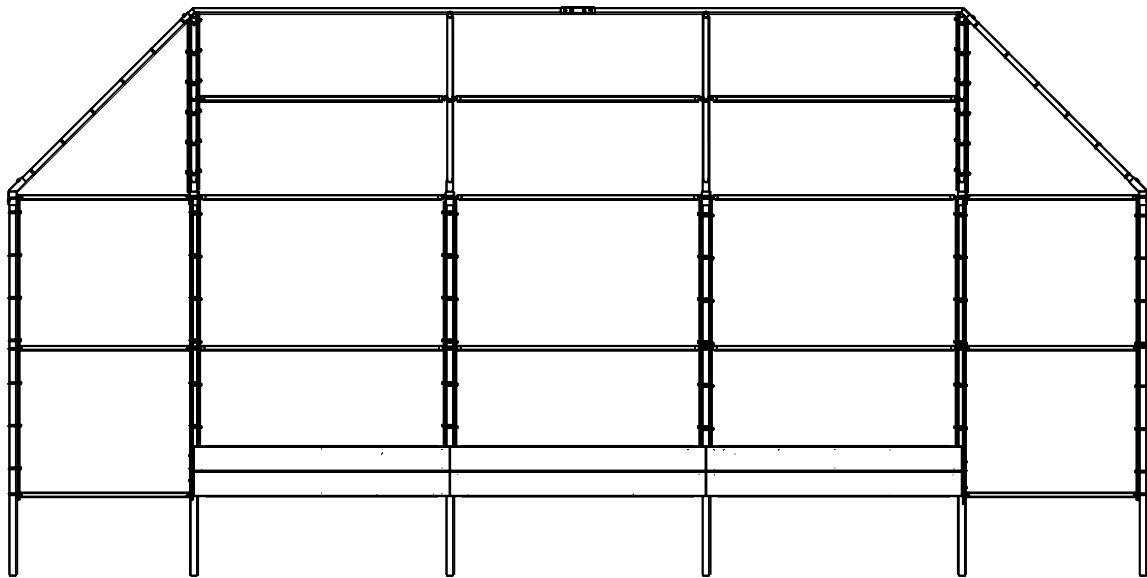



PERMANENT HOODED BACKSTOP  
INSTALLATION INSTRUCTIONS  
MODEL #1234-02



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

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

Specifications	Size
Vertical Posts	2-7/8"
Horizontal Rails	1-5/8"
Top Hood Rails	1-7/8"
Hood Angle Posts	2-3/8"
RCP	2" x 12"

	Date: 3/1/23	PRODUCT NAME HOODED BACKSTOP
	Rev:	
	Drawn: CW	MODEL NO. 1234-02-SPEC
	Sheet: 1 of 8	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RT-001-1234-180-G	LEG POST 2-7/8" DIA. x 11GA	6
2	CI12ELB1	HOODED BACKSTOP ELBOW FITTING	6
3	ASA-0501-1230-G	HOOD ANGLE $\phi$ 2-3/8" ASSEMBLY	6
4	ASA-0502-1234-G	HOOD CROWN ASSEMBLY	1
5	ASA-0503-1234-G	HOOD CROWN ASSEMBLY	1
6	RT-003-1234-112.5-G	STIFFENER 1.625 DIA.	13
7	VCIBB35	3-1/2" BRACE BAND	10
8	VCIRAILEND158	1-5/8 ID RAIL END	36
9	VCIBB278	2-7/8" BRACE BAND	20
10	VCIRP21210GRN	2" x 12" x 120" RCP Plank	6
11	HWCB5161	5/16"-18 x 1" CARRIAGE BOLT	142
12	HWFLWA516	5/16" USS FLAT WASHER	142
13	HWLN516	5/16"-18 LOCK NUT	142
14	HWSC581	5/8" SS SET SCREW	22
15	BS2PLKANG	CENTER PLANK SUPPORT	3
16	RT-008-1234-112-G	STIFFENER 1.625 DIA.	5
17	HWSC3858	3/8"-16 x 5/8" SET SCREW	12
18	HWSSLS14112	1/4" WOOD SCREW 1-1/2" LONG	78
19	VCITEN278	2-7/8" TENSION BAND	70
20	VCITBAR12	12' x 3/4" TENSION BAR	10
21	VCITEN238	2-3/8" TENSION BAND	36
22	VCITBAR10	10' x 3/4" TENSION BAR (118")	6
23	VCIBB238	2-3/8" BRACE BAND	6
24	BSPLANKANGLE	2" x 2" ANGLE 108" LONG PLANK CAP	6
25	ASA-0505-1234-G	CENTER JOINT SLEEVE ASSEMBLY	1
26	BSPLKSTRAP	ALUMINUM MESH ATTACHMENT BAR	6
27	2PlankAssembly278	2 PLANK MOUNTING ASSEMBLY	6
28	RMMESHGA21110	2" x 11GA x 10' GAL MESH	50'
29	RMMESHGA2912	2" x 9GA x 12' GA MESH	50'
30	VCITIEWIRE	TIE DOWN WIRE 10-1/2" x 12GA WITH HOOK	222



Date: 3/1/23

Rev:

Drawn: CW

Sheet: 2 of 8

PRODUCT NAME

**HOODED BACKSTOP**

MODEL NO.

**1234-02-SPEC**

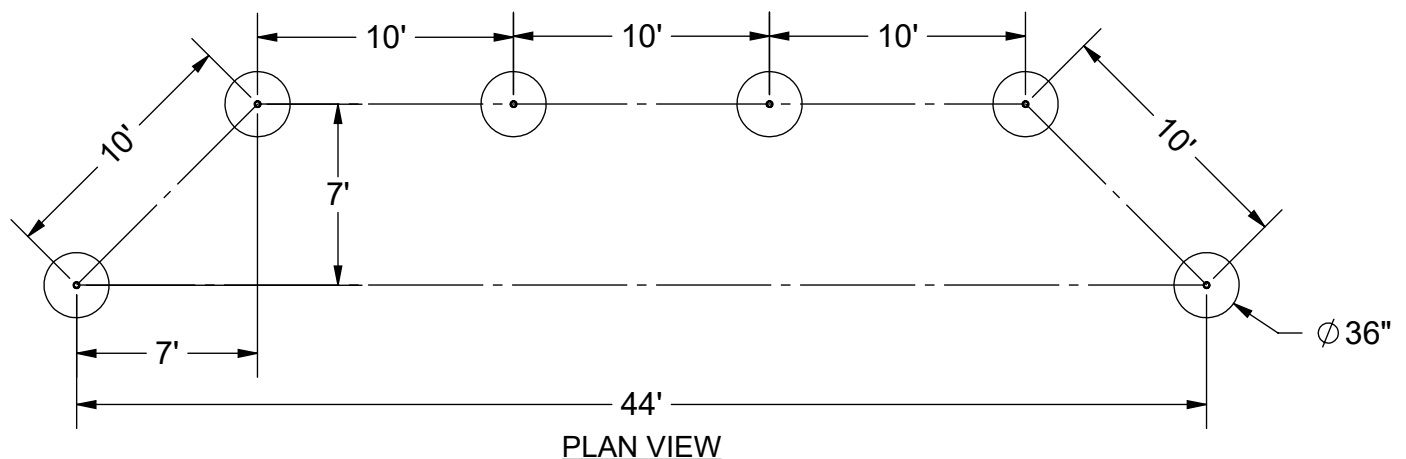
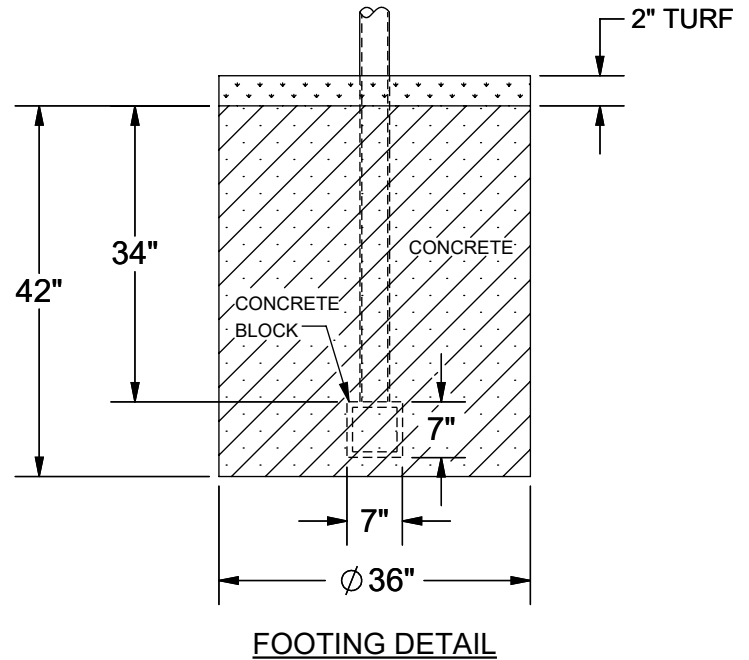
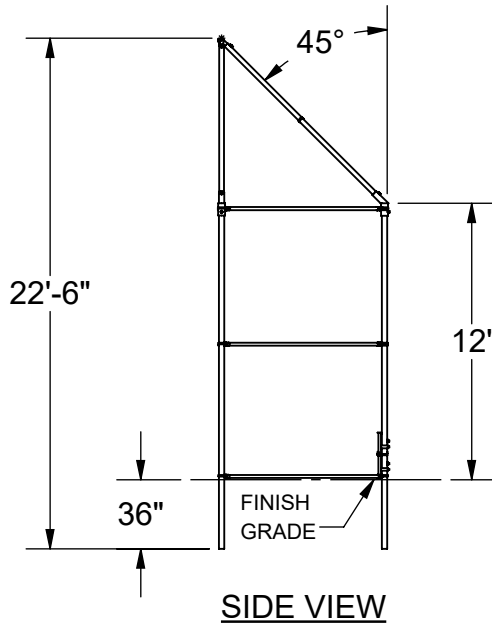
## FOOTING DETAIL

- 1) Determine the location of the backstop so the rear panel is perpendicular to a line running from 2nd base through home plate and the wings are parallel with the sides of the diamond.
- 2) Dig holes according to Footing Plan below and Footing Detail. Place all the posts in the holes resting on the blocks. Each post shall be 12'-0" above ground and 10'-0" on center. Place a horizontal stiffener on the ground between each of the posts. Place a rail end fitting on each end of the stiffeners. Place a brace band over each post adjacent to each rail end fitting. Bolt the rail end fitting to the corresponding brace band. Make sure the horizontal stiffeners fit into the rail end fittings at least 1".

**NOTE: All carriage bolt heads are facing the playing field.**

- 3) With the proper spacing established, plumb all the posts and pour the concrete footings up to 2" of finish grade and let set for three days before removal of bracing.

**NOTE: Footing sizes are based on the assumed soil bearing pressures from IBC 1807.**



FOOTING DIMENSIONS ONLY



Date: 3/1/23  
Rev:  
Drawn: CW  
Sheet: 3 of 8

PRODUCT NAME

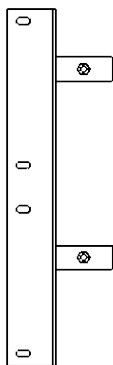
**HOODED BACKSTOP**

MODEL NO.

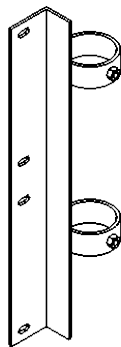
**1234-02-SPEC**

## INSTALLATION INSTRUCTIONS

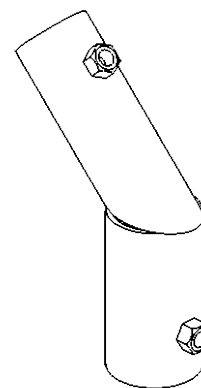
4) Check materials received with the BOM to make sure that all components are included and to assure that the unit is complete.



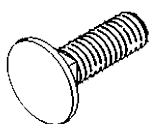
2PLANKASSEMBLY278



BS2PLKANG



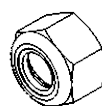
CI12ELB1



HWCB5161



HWFLWA516



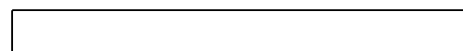
HWLN516



HWSC581/  
HWSC3858



VCITBAR10/VCITBAR12



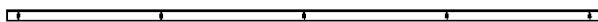
VCIRP21210GRN



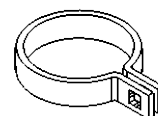
BSPLKSTRAP



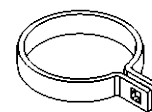
HWSSLS14112



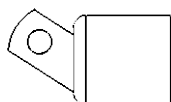
BSPLANKANGLE



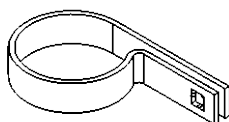
VCIBB278



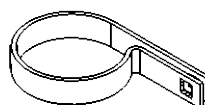
VCIBB35



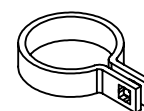
VCIRAILEND158



VCITEN238



VCITEN278



VCIBB238



Date:	3/1/23
Rev:	
Drawn:	CW
Sheet:	4 of 8

PRODUCT NAME

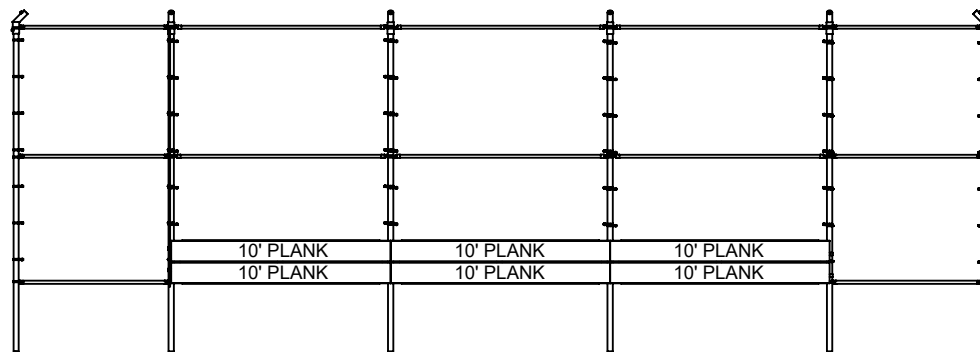
HOODED BACKSTOP

MODEL NO.

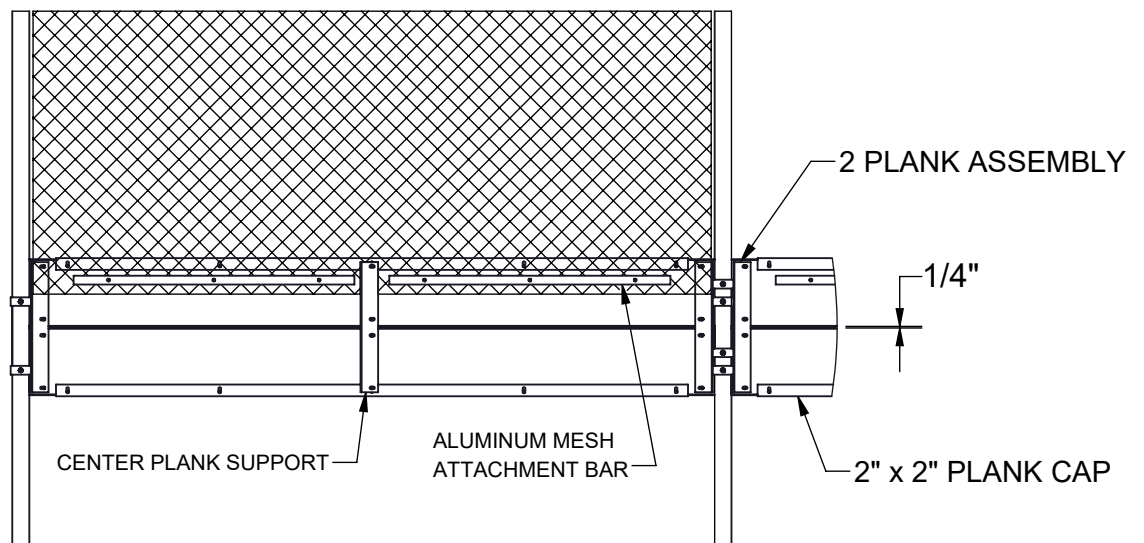
1234-02-SPEC

## INSTALLATION GUIDE

- 5) RC PLANK PREPARATION: Take the (6) RCP planks and trim them down to 120" (10') long. These planks will be the back wall sections.
- 6) Take all (6) planks and lay them on the ground or saw horses in front of the backstop. Locate the Center Plank Supports and 2 Plank Assemblies and put them on top of the evenly spaced planks. Center the slots evenly over the (2) planks with a 1/4" gap between planks. Once the spacing matches the view below, clamp the plates and pre-drill the holes before attaching the wood screws. Repeat this step for all the sections. **NOTE: the ends of some of the RCP planks may need to be chamfered to accomodate the tension bands.**
- 7) After the planks are installed, attach the 2" x 2" Plank Cap on the top and bottom of the planks, centering them between the 2 Plank Assemblies. Attach the mesh to the front side of the posts making sure the mesh goes behind the Plank Caps. Notch the mesh covering the Center Plank Supports. Install the Mesh Attachment Bar with wood screws to secure the mesh to the back side of the planks.



FRONT VIEW  
PLANK ASSEMBLY



REAR VIEW  
PLANK ASSEMBLY



Date: 3/1/23  
Rev:  
Drawn: CW  
Sheet: 5 of 8

PRODUCT NAME

HOODED BACKSTOP

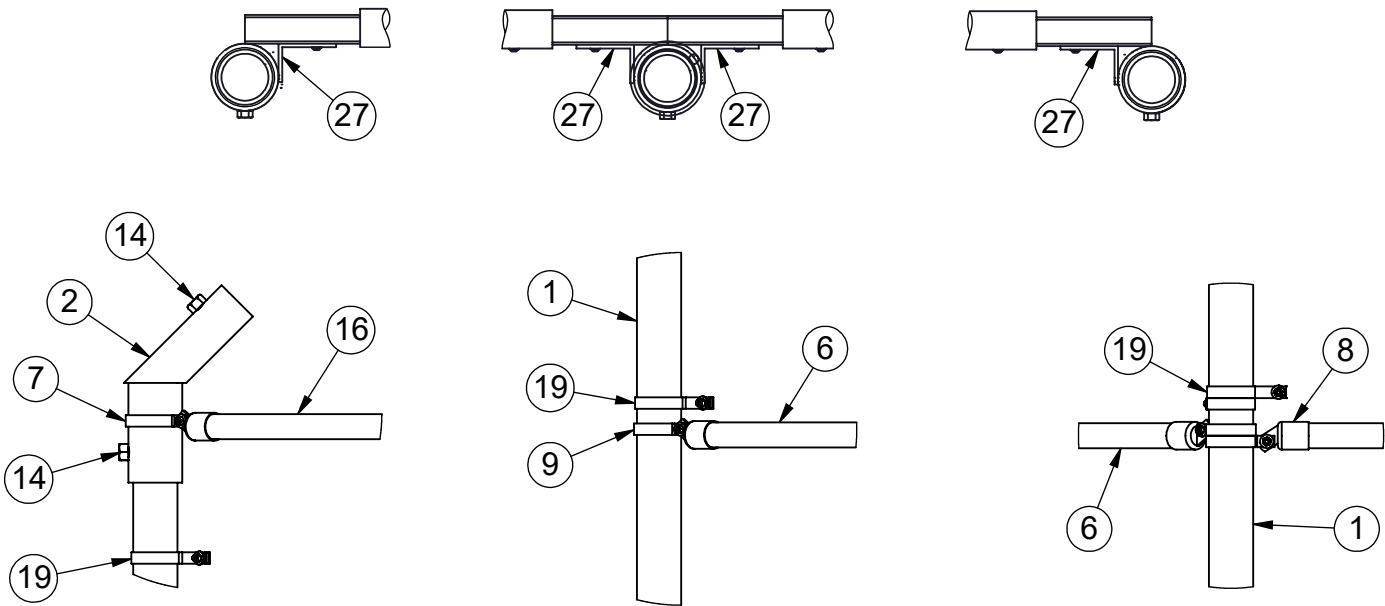
MODEL NO.

1234-02-SPEC

INSTALLATION INSTRUCTIONS

8) Put the entire Backstop together, starting at the top and working from left to right.  
Slide Brace Bands(7)(9), Tension Bands(19), Hooded Backstop Elbow Fittings(2)  
and 2 Plank Assemblies(27) onto the vertical posts.

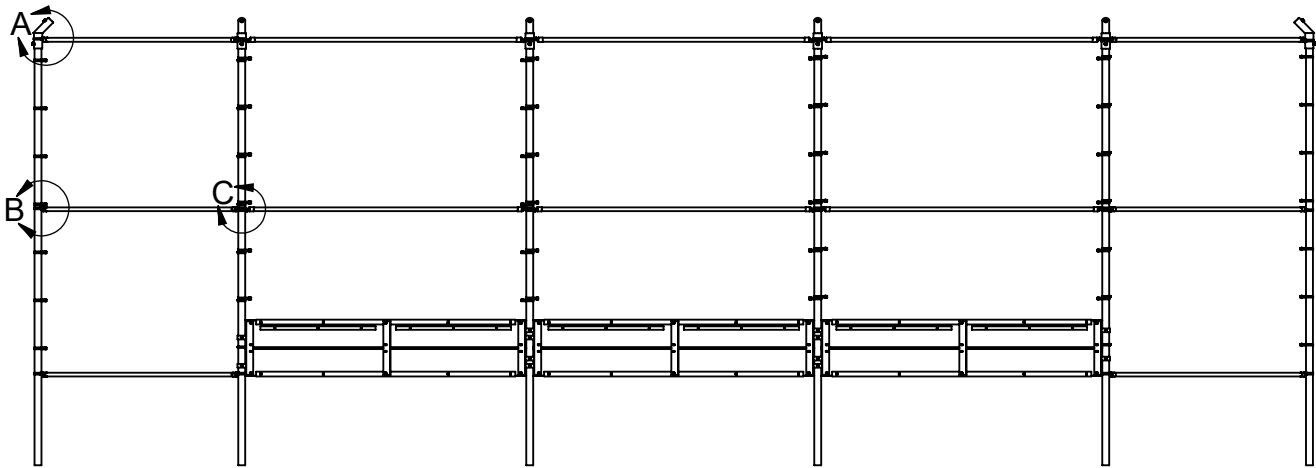
TOWARD HOME PLATE




DETAIL A

DETAIL B

DETAIL C

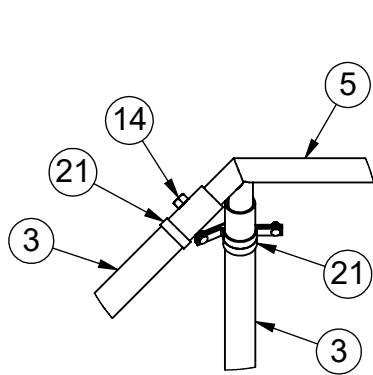


REAR VIEW  
POSTS AND HORIZONTAL RAILS

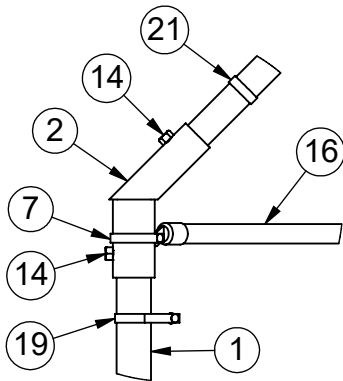
	Date: 3/1/23	PRODUCT NAME <b>HOODED BACKSTOP</b>
	Rev:	
	Drawn: CW	MODEL NO. <b>1234-02-SPEC</b>
	Sheet: 6 of 8	

INSTALLATION INSTRUCTIONS

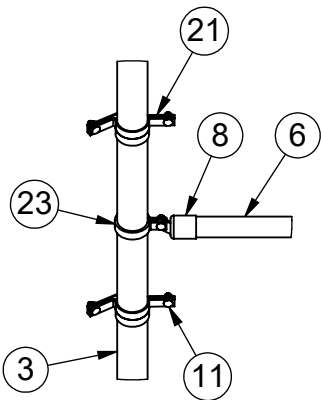
- 9) Start building the hood by working from left to right. Slide 2-3/8" Tension Bands(21) onto Hood Angle Assemblies(3) with (6) on the outer angle and (12) on the inner angle, repeating for the right side. Install 2-3/8" Brace Bands(23) onto the Hood Angle Assemblies(3) as shown in Detail F as well as the other three Hood Angle Assemblies. Install Stiffeners(6) as shown below.
- The Stiffeners use 2-3/8" Brace Bands, 1-5/8" Rail Ends with 5/16"-18 x 1" Carriage Bolts, 5/16" Flat Washers and 5/16" Lock Nuts.
- 10) Install the Hood Crown Left Assembly(5) and the Hood Crown Right Assembly(4) by sliding the Center Joint Sleeve Assembly(25) onto the Hood Crown Assemblies. Slide the six stubs into the six Hood Angle Assemblies(3). Slide the Center Joint Sleeve Assembly to the middle of the Hood Crown Assemblies and tighten the 5/8" set screws.



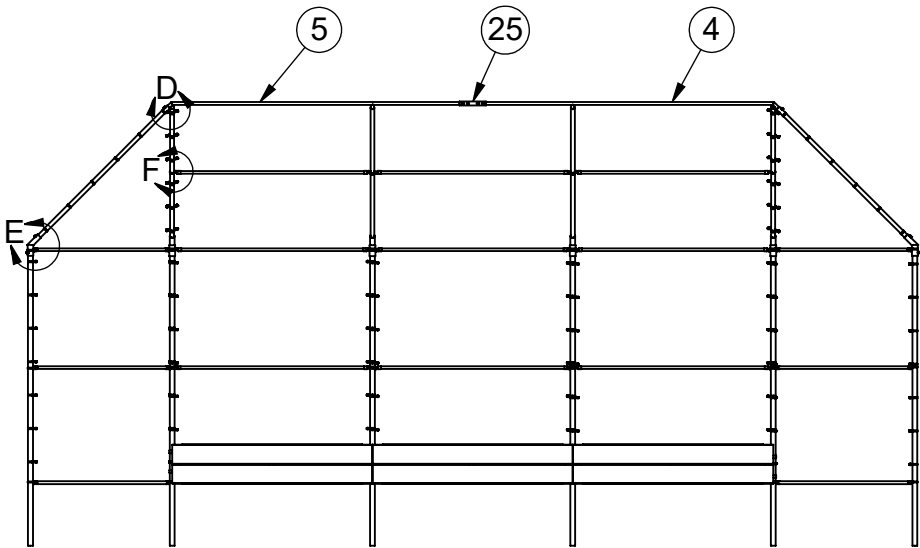
DETAIL D



DETAIL E



DETAIL F



FRONT VIEW  
HOOD ASSEMBLY




Date:	3/1/23	PRODUCT NAME
Rev:		
Drawn:	CW	MODEL NO.
Sheet:	7 of 8	
		HOODED BACKSTOP
		1234-02-SPEC

## **INSTALLATION INSTRUCTIONS**

**MESH INSTALLATION:** Separate the wire mesh as the heavier material (9 GA) is to be used along the rear panel and the wings while the lighter material (11 GA) is to be used on the hood. The mesh is cut to the approximate size and shipped in rolls.

1. Cut five pieces of (9 GA x 12' mesh) 10 feet wide to be installed between the vertical posts of the rear panel and the wings. Attach each piece of mesh using one 12 foot tension bar on each end of the mesh along with the tension bands and bolts provided. Place tension bands on 18 to 20 inch centers. The mesh is placed against the playing field side of the backstop with the tension bands parallel and adjacent to the vertical posts. The mesh must be tight; remove strands as necessary to achieve the proper tension.
2. Secure the mesh to the top, center and bottom of the horizontal rails with tie wires every 12 inches.
3. Cut one piece of (11 GA x 10' mesh) 30' wide. Attach the mesh to the rear of the hood panel using one tension bar on each end of the piece along with tension bands and hardware provided. Tension bands should be used on 18 to 20 inch centers. The mesh must be tight; remove strands as necessary to achieve the proper tension.
4. Secure the mesh to the top, center and bottom of the horizontal rails of the hood supports with tie wires every 12".
5. Cut two 10' long pieces of 11 GA mesh into two triangles to cover the remainder of the hooded area. Use the hood as a template.
6. Install two 10' tension bars in each triangular mesh piece along the two edges where the wire ends are NOT twisted together (knuckled salvage edge). Attach the mesh in the corners of the hood so the edge of the mesh without the tension bar is along the horizontal rail. Use tension bands on 18" to 20" centers to secure to the hood supports. The mesh must be tight; remove one to two strands as necessary to achieve the proper tension.
7. Pull the bottoms of each triangular mesh piece tight and secure with tie wires every 8" to the horizontal rails.
8. Inspect for loose hardware and tighten as necessary. Also look for sharp wires and either cut or turn back into the fabric as necessary.
9. Replace the turf to cover the exposed tops of the footings.

	Date:	3/1/23	PRODUCT NAME
	Rev:		<b>HOODED BACKSTOP</b>
	Drawn:	CW	
	Sheet:	8 of 8	
			MODEL NO. <b>1234-02-SPEC</b>