

LARGE HOODED BACKSTOP

- MODEL #1246-55 LARGE HOODED BACKSTOP WITH PLANKING



FRAMES AVAILABLE
STANDARD AS:

- GALVANIZED
- POWDER COATED

GENERAL: Our largest, conventional type, hooded backstop ideal for league use. This backstop provides excellent ball capture, permitting more freedom in the placement of playing fields. Backstop is furnished knocked down with all parts and instructions necessary for assembly and installation. No field welding is required.

MATERIALS: All material is galvanized steel.

VERTICAL POSTS:

All vertical posts are 4-1/2" O.D. galvanized steel (A). Post ends are capped. All vertical posts extend 4'-0" below grade into concrete footings.

HORIZONTAL RAILS: 1-5/8" O.D. galvanized steel. Rails secure with galvanized rail ends, brace bands, and 5/16" x 1" carriage bolts and nuts.

HOOD TRUSSES: Front truss constructed of 2-7/8" O.D. galvanized steel (C), and diagonal bracing of 2-3/8" O.D. tube (D). Second truss constructed of 2-7/8" O.D. tube (E), and diagonal bracing of 2-3/8" O.D. tube". Third truss and rails constructed of 2-7/8" O.D. tube, top and bottom member with 2-3/8" diagonal bracing. Each truss is in two pieces, spliced together in the center with both internal & external sleeves. Truss ends are welded to 5" O.D. galvanized steel sleeves which fit over vertical posts & secure with 5/8" diameter set screws. Back of backstop is constructed of vertical and horizontal posts.



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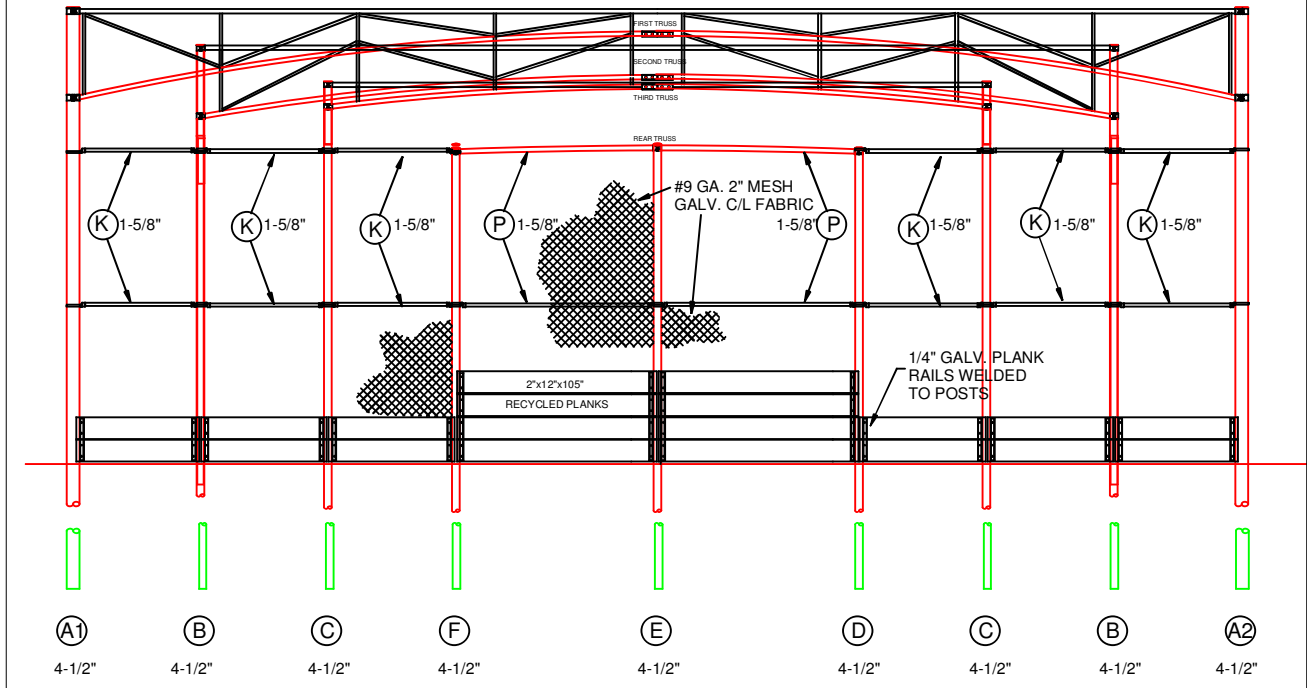
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DRAWING 'A'



(NOTE: VIEW OF BACKSTOP AS SEEN FROM PITCHING MOUND)

CHAIN LINK FABRIC: 2" mesh galvanized after weaving. 9-gauge on rear and bottom side panels. 11-gauge on hood. Fabric is furnished in rolls.

HARDWARE: Tension bars and bands are galvanized. Fasteners are zinc-plated.

PLANKING: 2" x 12", Recycled Planking. Planking is four planks high on rear and two planks on side panels. Planking is secured to 2" x 2" x 3/16" steel angle brackets, welded to vertical posts, with 5/16" x 2 1/2" carriage bolts, washers and nuts.

FINISH: All pipe, fittings mesh and hardware are galvanized. All welds are ground smooth and treated with cold galv. compound. All fasteners are zinc-plated.

DIMENSIONS:	Height	Width
Front Opening	20'	51'-2-1/2"
Rear Panel	14'	17'-8"
Side Panels	14'-20'	23'-8"
Front-To-Back	17' Depth	
Planking	5' High - Rear 2' High - Sides	

WARRANTY PERIOD: 36 Months



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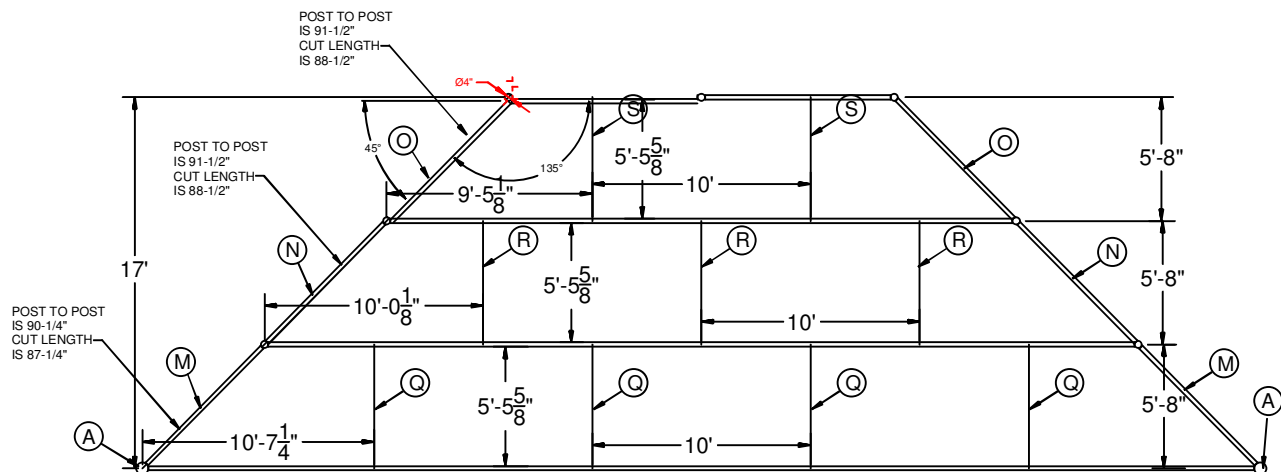
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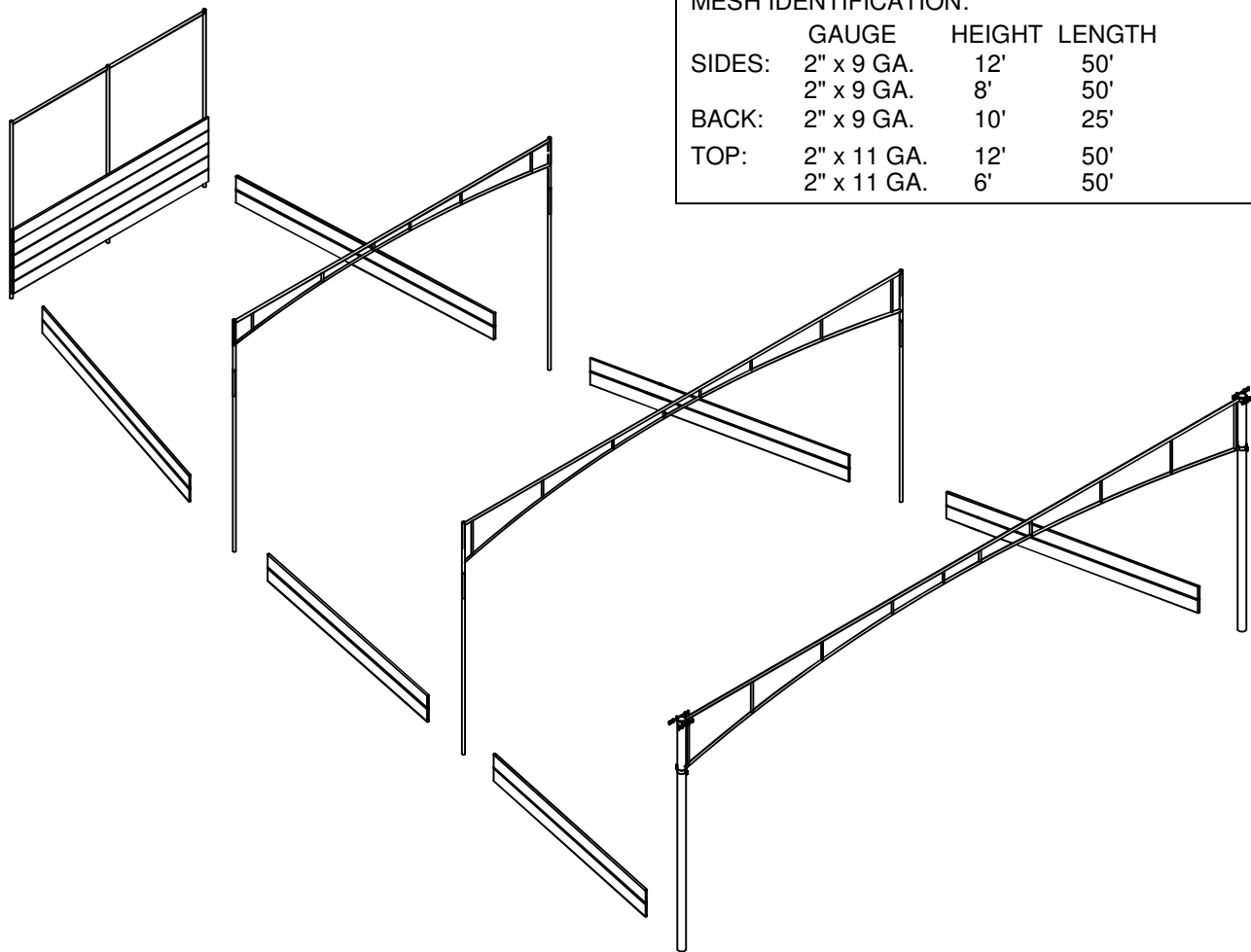
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DRAWING 'B'

MESH IDENTIFICATION:

	GAUGE	HEIGHT	LENGTH
SIDES:	2" x 9 GA.	12'	50'
	2" x 9 GA.	8'	50'
BACK:	2" x 9 GA.	10'	25'
TOP:	2" x 11 GA.	12'	50'
	2" x 11 GA.	6'	50'

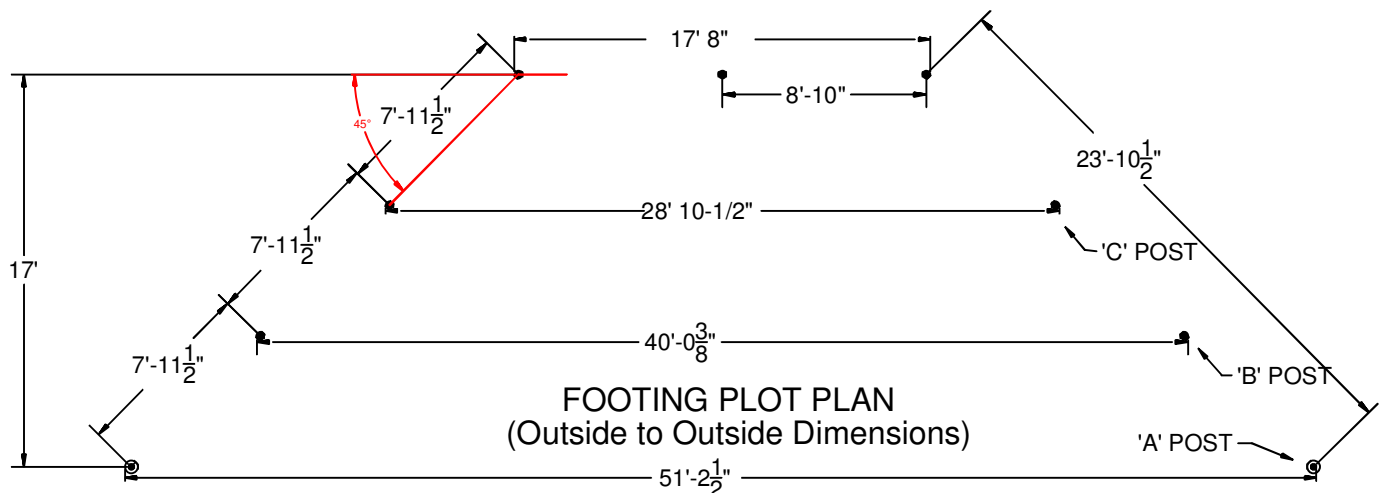


General Notes: Site must be level Nine 8" x 8" x 8" concrete blocks (half blocks) will be required in the bottom of holes to provide a means of post height adjustment as well as to provide sufficient concrete footing below bottoms of posts (see typical footing details). Note: Welded plank mounting angles on support posts A, B, C, D, E, & F, are welded 2" above finish grade.

1. Determine location of backstop so the rear panel is perpendicular to a line running from 2nd base through home plate and so the wings are parallel with the base lines of the diamond.
2. Dig holes according to footing plot plan and footing detail. Pg-3
3. Center a half concrete block (8" x 8" x 8") in bottom of each of holes per footing detail. Adjust height so the top of the block corresponds to depths given from finished grade.
4. Start with the rear support posts (D, E & F), center the posts in the holes so its rests on the concrete block rotate post to align angle bracket for planks. Adjust block height as necessary to achieve proper post height. Plumb and brace in position.

Note: Support posts D, E and F should be installed with caps on top. D post is the right corner post if you are looking at the backstop from the pitchers mound. (See Drawing A, & Footing Plot Plan page 2 & 3)

5. Attach rear horizontal rails (P) between posts (D, E & F) at height as indicated in Drawing D page 9. Use 4-1/2" brace bands and carriage bolts provided. Block and brace to hold in position. (See Drawing C page 7)
6. Attach two pieces of rear truss (C) together with 3/8" x 2-1/2" ButtonHead bolt, Barrell nut, flat washer & split washer. Slide post (C) into ends of truss and tightn to lock in post.
7. Raise truss and center the (C) support posts in the footing holes (See Footing Plot Plan) and align plank angles. Note: The (C) posts are 4-1/2" OD x 23' 10-7/8" long and will sleeve into rear truss (C).
8. Attach horizontal rails (K) between support posts C and corner posts D & F with 4-1/2" brace bands and carriage bolts. Block and brace to hold in position. (See Drawing A page 2)
9. Install middle truss (B) and front truss (A) in same manner as above steps 6, 7 & 8.
10. Install diagonal side braces (M) between Truss (G) and Truss (H) with 4-1/2" brace bands and carriage bolts.
11. Plumb and level all posts. Tighten all hardware.



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Plank Installation:

Note: Plank mounting angles are 2" above finish grade. (See Drawing C & D page 6 & 7)

1. Install 2" x 12" x 105" recycled planks onto rear support posts D, E and F. Start at the bottom and work your way up. Use the holes in the angle mounting plates for drilling location. Drill with a 5/16" drill bit and attach with 5/16" x 2-1/2" carriage bolts, flat washers, lock washers and nuts.
2. Leave a 1/2" space between planks and 1/2" space at the ends of each plank.
3. Planks used between corner post D and F, and support posts C and B are 2" x 12" x 94-1/2".
4. Planks used between support posts (B) and (A) are 2" x 12" x 93-1/2".
5. A 1-1/2" x 1-1/2" Alum. angle that has been powder coated should be applied to the bottom and top of each section of planks between posts at this time. Cut to length, & use supplied 1-1/4" round head phillips wood screws to attach. (Note: Recommend angle attachment to back side of plank)
6. Place back-up chanesl onto planks at this time.
7. Reference sheet 7 of 9.

1. Pour concrete in two holes across from each other starting in front and working to rear, within 2" of finished grade. Check center-to-center dimension between posts for trusses. Re-plumb and brace as necessary. Tamp the wet concrete to fill gaps created by adjustment of posts and to fill concrete block. Pour more concrete if necessary.
2. Repeat above for each set of post until complete. Let concrete set for three days before removal of bracing.

Mesh Installation:

1. Separate the wire mesh as the heavier material (9 gauge) is to be used along the rear panel and side wings while the lighter material (11 gauge) is to be used on hood only.
2. Insert a 10' tension bar in the end of the mesh and attach to one of the corner posts D or F with 4" tension bands and carriage bolts every 18". Pull tight to other corner post and insert other 10' tension bar. Trim excess mesh. Note: Mesh must be tight so you may have to remove a strand or two in order to achieve proper tension.
3. Use tie wire every 12" at top and on the middle horizontal rails.
4. At the bottom of the mesh insert a drilled 8' tension bar and attach to the planks using the holes in the bar for location. Bolt onto plank with 5/16" x 2-1/2" carriage bolts, flat washers, lock washers and nuts.
5. For the side panels use 2 x 9ga x 12' & 8' wide mesh. Use 12' tension bars to attach to corner posts and 4-1/2" tension bands as before.
Again use tie wires every 12" along horizontal rails at top and middle. As in step 4 bolt on drilled tension bars to hold mesh to back of planks. Note: You may have to trim tension bars to fit.
6. Use 2 x 9ga x 10' wide mesh for rear. Align mesh end on rear support posts D, E and F. Center mesh so the mesh will overhang equally on both ends. Use tie wires every 12" at one end. Pull mesh tight and tie wire off to the truss rails as you proceed to the other side. Do not trim at this time.
7. Use 2 x 11ga x 12' for top front & 6' for top rear. Align bottom end with Truss (I), this will overlap the first course. Center the mesh as before and use tie wires as before to hold in place. Use hog rings every 6" to hold overlap mesh together. Do not trim at this time.
8. Use the overhanging mesh on the side panels to cover holes in mesh if needed. Trim excess mesh and bend back any sharp wires into mesh to avoid and sharp exposed ends.
9. Check complete backstop for exposed sharp wires and bend back into mesh. Make sure all hardware is tightened.
10. Cover footings with dirt.



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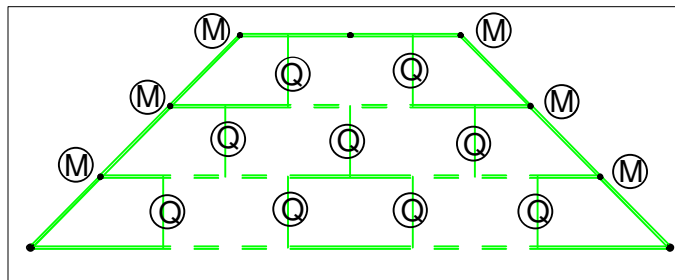
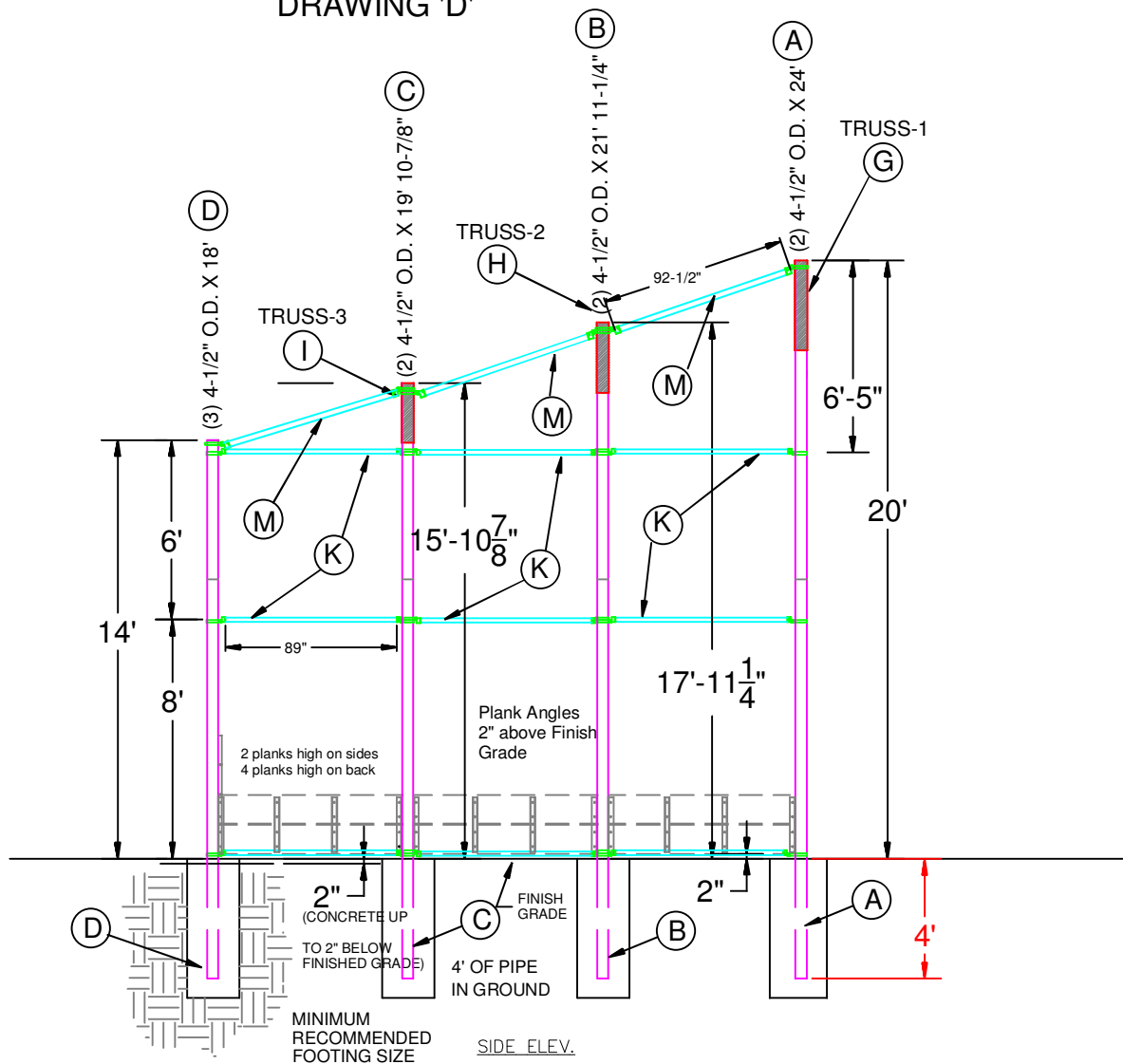
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DRAWING 'D'



Note:

"M" ARE DIAGONAL SIDE BRACES

"Q" ARE TRUSS RAILS



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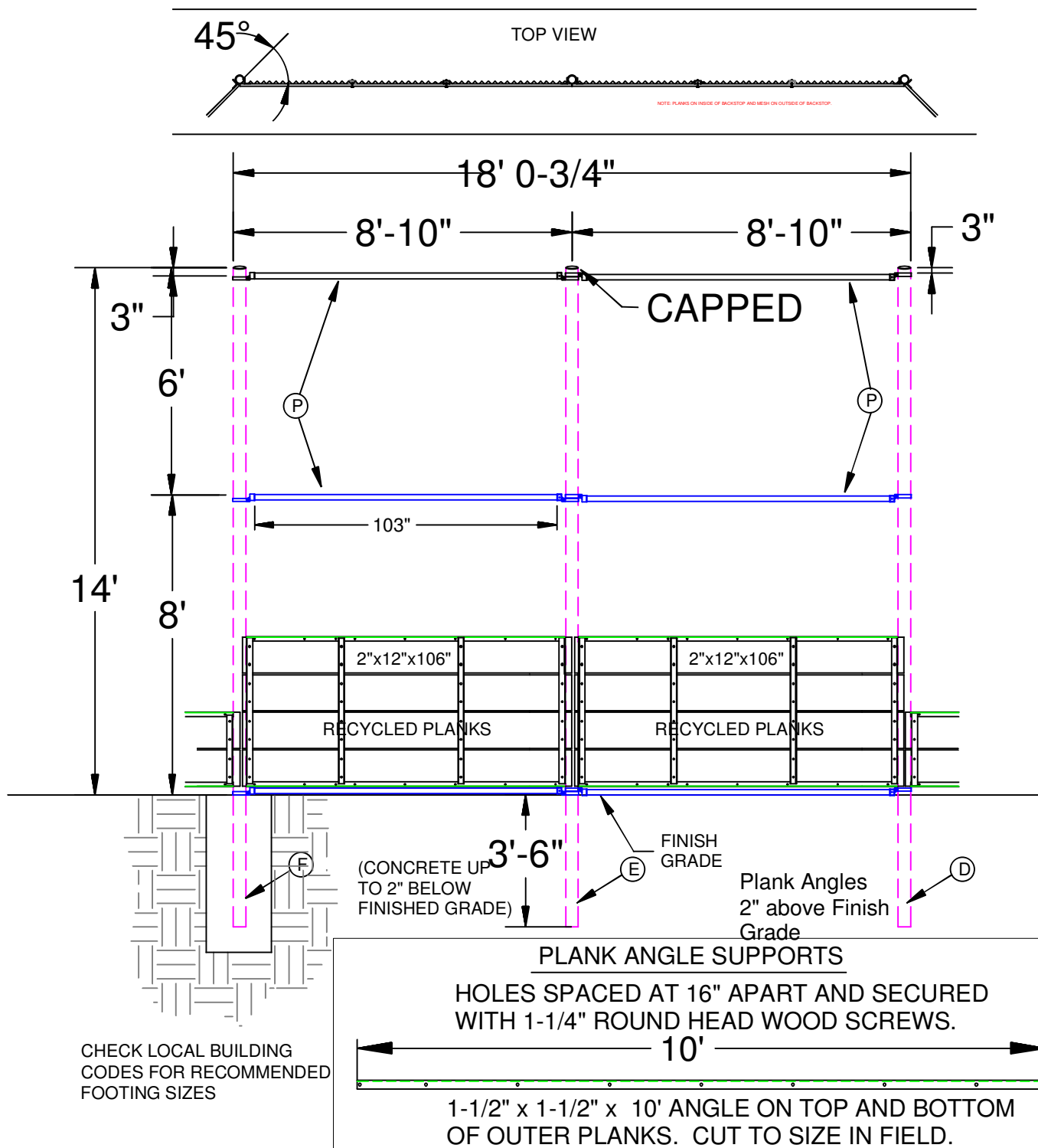
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SCALED UP VIEW OF BACK PLANKS

(See Plank Layout Detail Sheet 8 of 9)

NOTE: PLANKS ON INSIDE OF BACKSTOP AND MESH ON OUTSIDE OF BACKSTOP.

DRAWING 'C'



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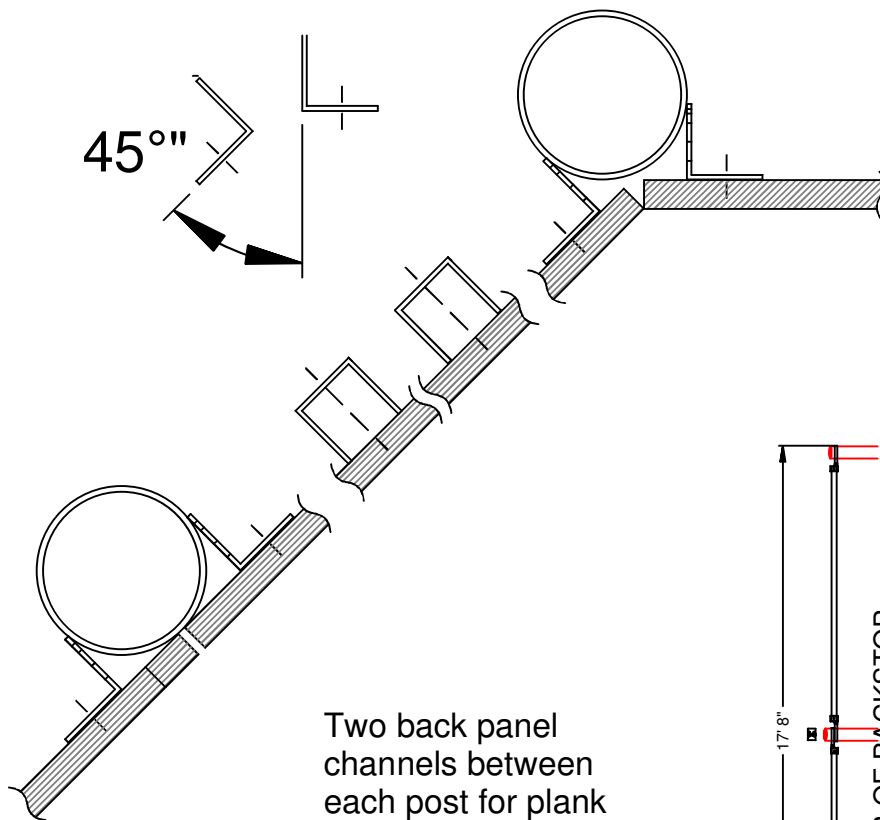
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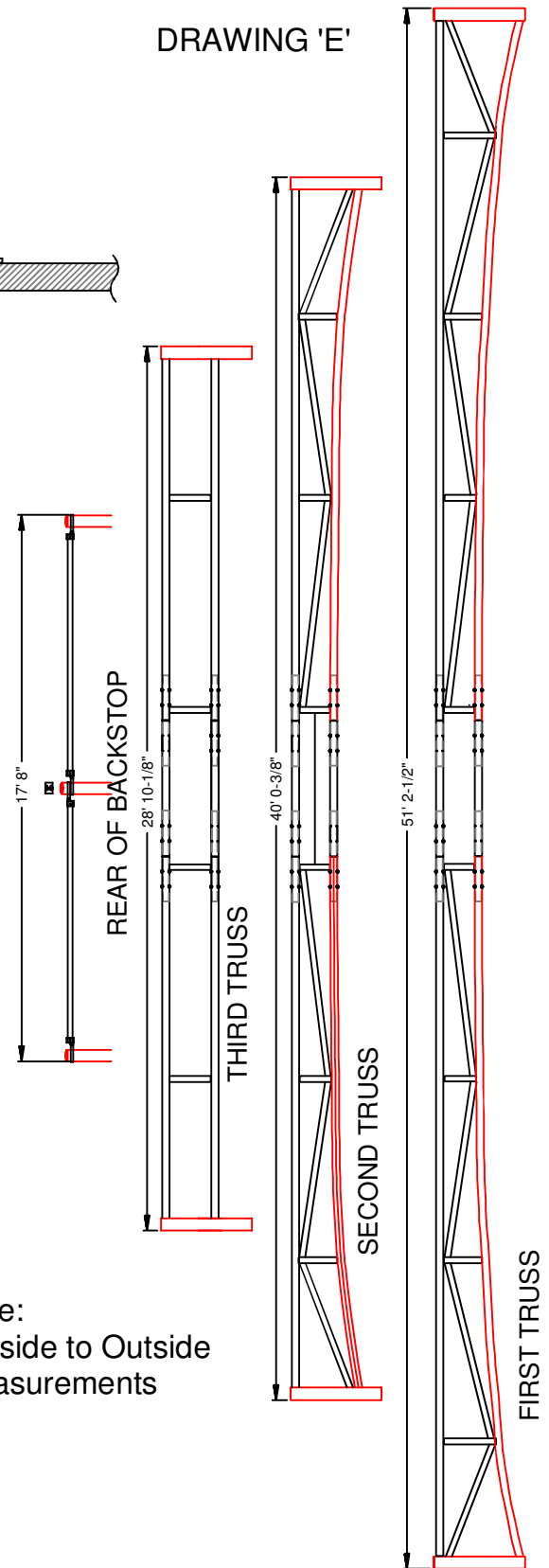
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PLANK LAYOUT



DRAWING 'E'



Note:
Outside to Outside
measurements



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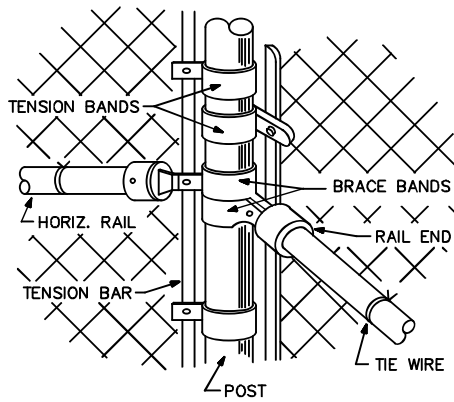
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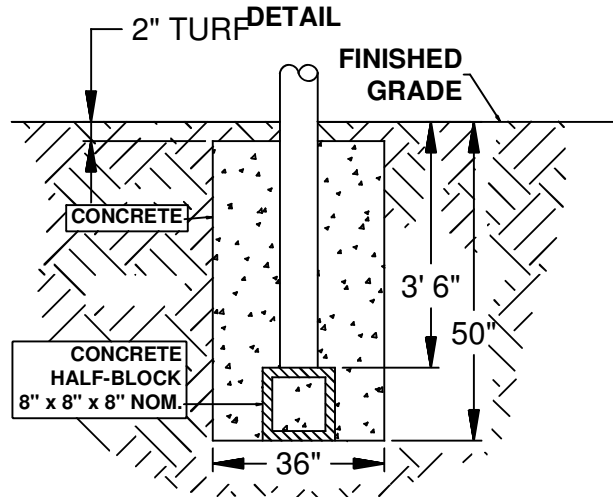
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ATTACHMENT DETAIL



TYPICAL FOOTING DETAIL



DESCRIPTION	Unit
(All post with plank angles)	
4-1/2" O.D. SUPPORT POST (A)	2
4-1/2" O.D. SUPPORT POST (B)	2
4-1/2" O.D. SUPPORT POST (C)	2
4-1/2" O.D. CORNER POST-R (D)	1
4-1/2" O.D. CENTER POST (E)	1
4-1/2" O.D. CORNER POST-L (F)	1
FRONT TURSS (G)	2
CENTER TRUSS (H)	2
REAR TRUSS (I)	2
1-5/8"x86-3/8" HORIZ. SIDE RAILS (K)	12
1-5/8"x89" DIAG. SIDE BRACE (M)	6
1-5/8"x95" HORIZ. REAR RAILS (P)	4
1-5/8"x67-3/4" TRUSS RAILS (Q)	9
8' TENSION BARS DRILLED	6
10' TENSION BARS DRILLED	2
10' TENSION BARS	2
12' TENSION BARS	4
12" TIE WIRES (LBS)	10
HOG RINGS (LBS)	8
2"x12"x106" RCP PLANKS	10
2"x12"x95" RCP PLANKS	12
1-1/2" x 10' Angle for PLANKS	16
2"x9ga x 12' MESH (FT) SIDES	50
2"x9ga x 8' MESH (FT) SIDES	50
2"x9ga x 10' MESH (FT) BACK	25
2"x11ga x 12' MESH (FT) TOP FRONT	50
2"x11ga x 6' MESH (FT) TOP REAR	50
58" PLANK CHANNEL	4
22" PLANK CHANNEL	12

Component Description	Qty
1-1/4" Wood Screws for supports	96
5" Custom Brace Band	14
4-1/2" Brace Band	36
2-7/8" Brace Band	16
1-5/8" Rail Ends	62
1-5/8" Brace Band	24
4-1/2" Tension Band	40
5/16"-18 X 1-1/4" Carriage Bolt	168
5/16"-18 Hex Nut	256
5/16"-16 X 2-1/2" Carriage Bolts	88
5/16"-16 Flat Washer	256
5/16"-16 Lock Washer	256
1/2"-13 X 3" Hex Bolt	16
1/2"-13 Flat Washer	32
1/2"-13 Lock Washer	16
1/2"-13 Hex Nut	16
#25 Drill Bit (Rail Ends)	3
5/8" X 7/8" Socket Setscrew	32
5/16" Hex Key Wrench	1
1/2" Drive Screws	62



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