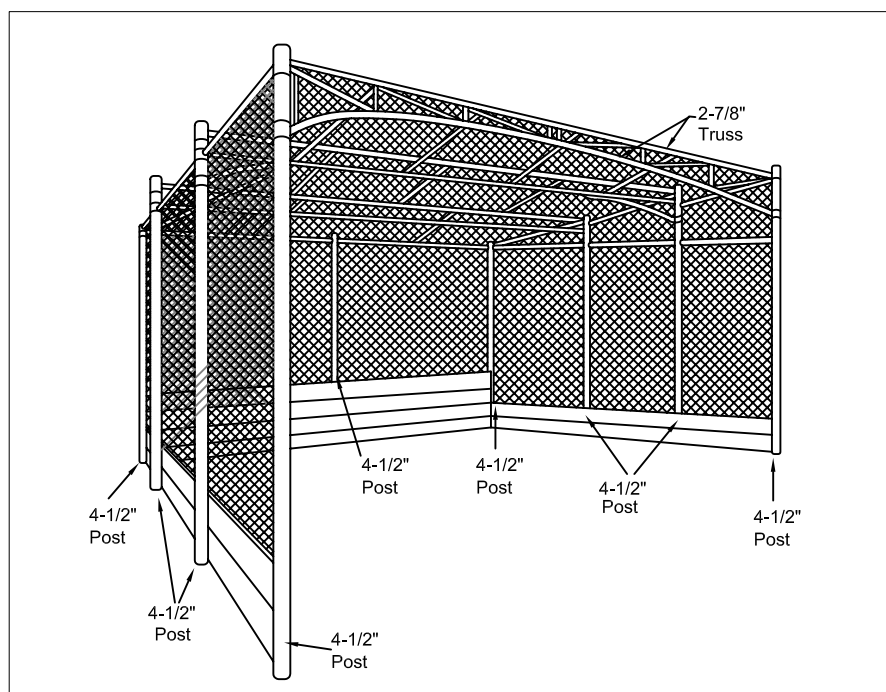


LARGE HOODED BACKSTOP

☐ MODEL #1246-43 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 tube is galvanized.

VERTICAL POSTS: All vertical posts are 4-1/2" O.D. tube. 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. tube, and diagonal bracing of 2-3/8" O.D. tube. Mid 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" dia. set screws. Holes (1/4") are drilled for drive pins.

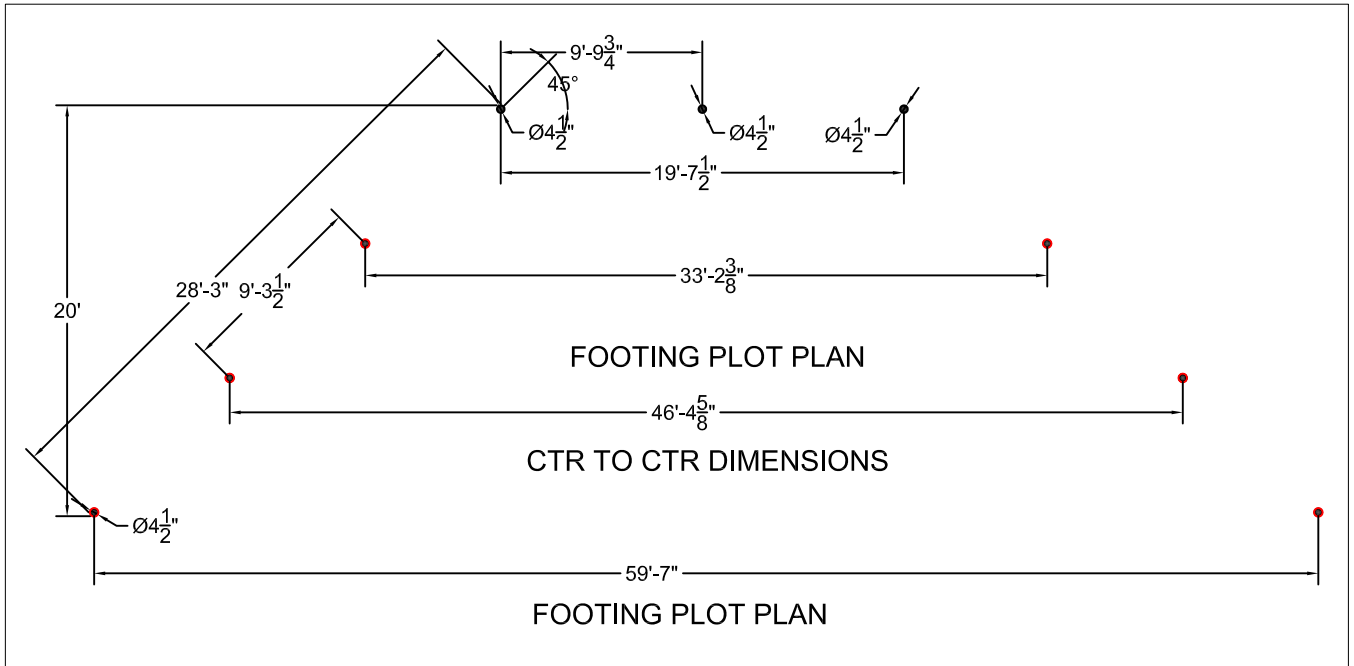
CHAIN LINK FABRIC: 2" mesh galvanized after weaving. 9 guage on rear and side panels. 11 guage on hood. Fabric is cut to approximate size and furnished in rolls. (Guage size is prior to vinyl coating.)

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

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

FINISH: All tube, fittings mesh and hardware are galvanized. All welds are ground smooth. All fasteners are zinc-plated.

	P.O. Box 9028 Ph: 800-687-5768 Fax: 866-888-1110 Mesa, AZ 85214		SCALE: N.T.S. DATE: 4-9-07 DRAWN BY: AMC REV: 03-29-11		TITLE: Specification/Installation Instructions LARGE HOODED BACKSTOP	
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DIMENSIONS:	Height	Width
Front Opening	20'	60'
Rear Panel	12'	20'
Side Panels	12'-20'	28'

Depth of backstop is 20'.

WARRANTY PERIOD: 36 Months



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Extremely Important

Dig footing holes according to layout & assemble post and rails as instructed. Do not pour concrete until entire frame is assembled.

GENERAL: A one-ton stringer crane with a 24-ft boom capacity is suggested to raise and set truss in place. Site must be level. Eleven 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 bottom of posts (see typical footing detail). Determine location of backstop so the rear panel is perpendicular to a line running from 2nd base through home plate. Wings are parallel with the sides of the diamond.

- Dig footings according to footing plot plan and footing detail (see note at end of instructions).
- Center a half-concrete block (8" x 8" x 8") in the bottom of each of the holes. Adjust height so the top of the block is 48" below finished grade for all uprights
- Assemble front and middle truss, making sure crosspieces are fully seated in the sleeves. Install 3/8" x 2-1/4" Hex Bolt & ButtonHead Bolt and tighten one full turn past hand tight with a wrench. (See detail page 7 & 8)
- Start with end posts (Item A). Center the posts in the holes so that they rest on the blocks. Tops of posts to be 20'-0" above finished grade. Adjust block height as necessary to achieve proper post height. Plumb and brace in position (note position of the angle mount bracket, making sure angle is inside forward mount.)
- Repeat the same procedure for the 2 adjacent uprights (Item B). Rotate the posts as necessary to align angle mount brackets. Tops of posts to be 18'-0" above finished grade. Plumb and brace in position.
- Attach two horizontal rails (Item K) between the four posts (Item A and B). Locate these at approx. 11'- 6" above finished grade. Attach with brace bands and carriage bolts provided (see attached detail).
- Now raise front truss into position and slide down over internal sleeve in upright. Brace in place, center of truss should be strongly braced. Tighten 5/8" set screws one full turn past hand tight with a wrench.
- Re-plumb posts and brace as necessary.
- Set the 2 adjacent posts (Item C) in the holes on the concrete block. Plumb and brace. (Note location of angle mount bracket and turn as necessary) Posts to be 14'-8-1/2" above finished grade.
- Attach two horizontal rails (item K) between posts C and posts B. Install as before at 6'-0" above subgrade using brace bands and carriage bolts.
- Now raise center truss into position and slide down over sleeves in upright. Brace in place as with front truss. Install 5/8" socket set screws and tighten one full turn past hand tight with a wrench.
- Re-plumb posts as necessary and brace.
- Set the adjacent posts (Item D) in the holes on the concrete blocks. (note location of angle mount bracket and turn as necessary). Posts to be 12'- 0" above finish grade.
- Attach two horizontal rails (Item K) between posts D and C. Install as before.
- Re-plumb posts and brace as necessary.
- Attach the two horizontal rails (Item K) between posts D . Install as before.
- Re-plumb posts as necessary.
- Set post D in the hole on the concrete block. (note location of angle mount bracket and turn as necessary). Post is to be 12'-0" above finished grade.



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Extremely Important

Dig footing holes according to layout & assemble post and rails as instructed. Do not pour concrete until entire frame is assembled.

- Attach the two horizontal rails (Item L) between posts D. Install as before.
 - Re-plumb posts as necessary.
 - Install all other diagonal rails (Items K, L) using brace bands and carriage bolts. See drawing for locations.
 - Re-plumb all posts.
 - Install panel planking (Note: 10-foot planks will be used on back and sides. Locate and center the plank so it is 2" above finish grade. Drill 5/16" diameter holes through the plank using the holes in the angle mount bracket for hole location. Drill four holes per plank and secure with 5/16" x 2-1/2" carriage bolts and nuts.
 - Attach aluminum angle to top plank and bottom plank. See page 8 for details.
 - Repeat for all the bottom planks, allowing 1/8" gap between the ends of the planks and 2" above finished grade. Repeat drilling & mounting procedure as before.
 - Attach all of the other planks in the same manner, starting in the middle working outward. Allow 1/4" between edges of planks and 1/8" between the ends of the planks. Tighten hardware. Cut and peen any excess threads.
 - Pour concrete up to within 2" of finished grade & allow to dry approximately 3 days.
 - Separate the wire mesh as the heavier material (9- gauge) is to be used along the rear panel and the wings. While the lighter material (11-gauge) is to be used on the hood. The mesh is cut to approximate size and shipped in rolls.
 - The two 8' wide x 28' long pieces of 9-gauge mesh are to be used on the wings. The roll of 8' wide x 20' long 9-gauge mesh is to be installed on the back. The two diagonally cut pieces 28' long of 9-gauge are to be installed on the diagonal sides of the wings. Attach mesh to sides using one 8' tension bar on each side of the mesh along with tension bands and bolts provided. Use tension bands on 18 to 20 inch centers. The mesh must be tight. Remove one or two strands as necessary to achieve proper tension.
 - Secure the mesh to the top and center horizontal rails of the vertical posts with a 9" length of the wire every 12 inches.
 - The mesh will overlap the top planks. Install the drilled tension bars in the mesh about 3" to 6" from the top edge of the highest plank. Pull tight and drill 5/16" diameter holes through the planks using holes in the tension bar for hole location secure with 5/16" x 2 1/2" carriage bolts and nuts. Cut excess mesh below the tension bars and turn any sharp edges back into mesh. The two pieces of 12' wide pieces of 9-gauge are to be used on the top. The 20' long piece will be in the back and the 55'-0" piece will be in the front. There will be 4 triangular pieces which will fit in the corners.
 - Attach the 30' piece on the hood. Use the wire to secure mesh to hood & rails. Mesh must be tight. Remove strands as necessary to achieve proper tension.
 - Attach the 12' x 50' piece on the hood as before.
 - Attach the four triangular pieces using the wire on the sides and to connect the mesh to the corner piece.
 - Inspect for loose hardware and tighten as necessary. Also look for sharp wires and either cut or turn back into the fabric as necessary. Make sure all set screws are hammered tight.
 - Replace turf to cover exposed tops of footings (see typical footing detail).
- **NOTE: Footing sizes are based on averages soil conditions. Loose and/or sandy soil is not average and footing sizes must be increased accordingly to meet local conditions.**



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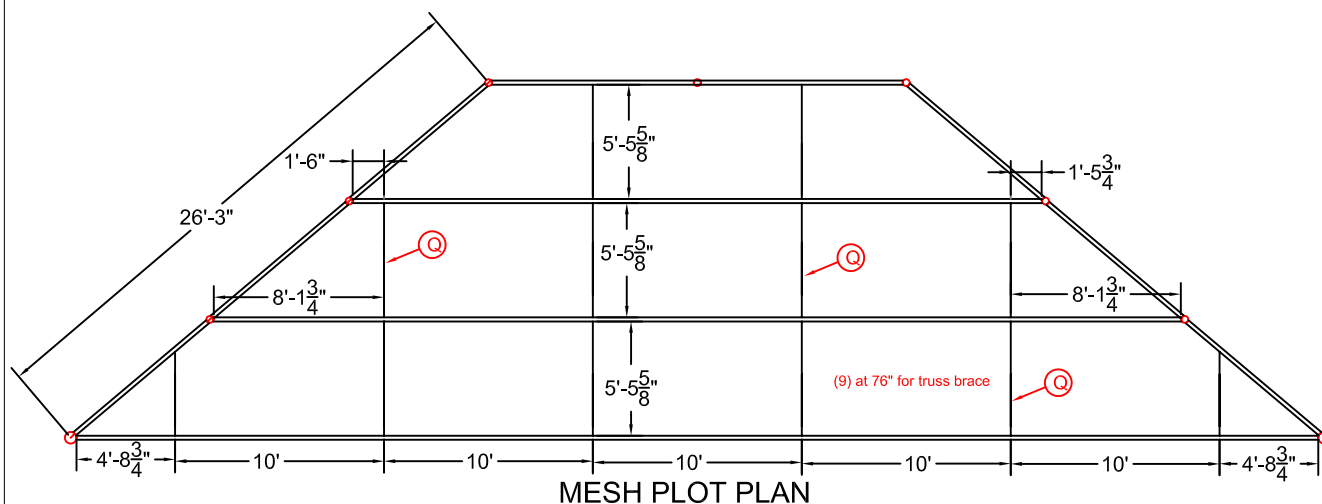
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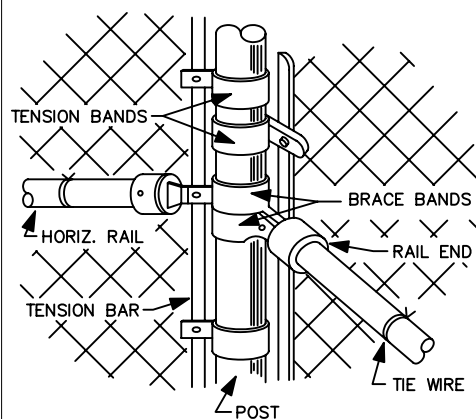
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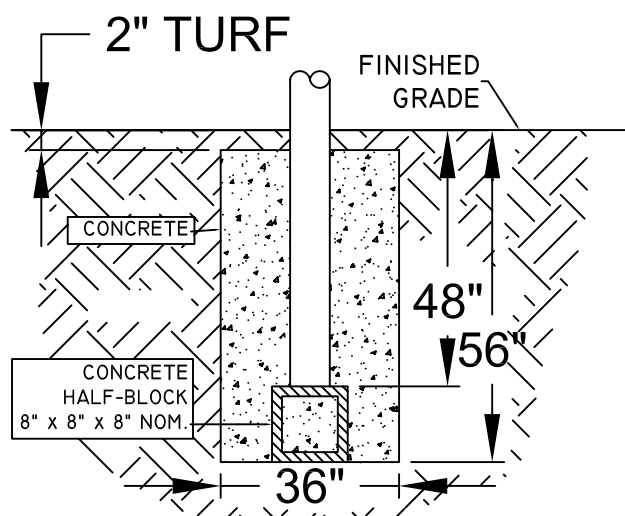
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ATTACHMENT DETAIL



TYPICAL FOOTING DETAIL



Note: Check local codes for footing size requirements.



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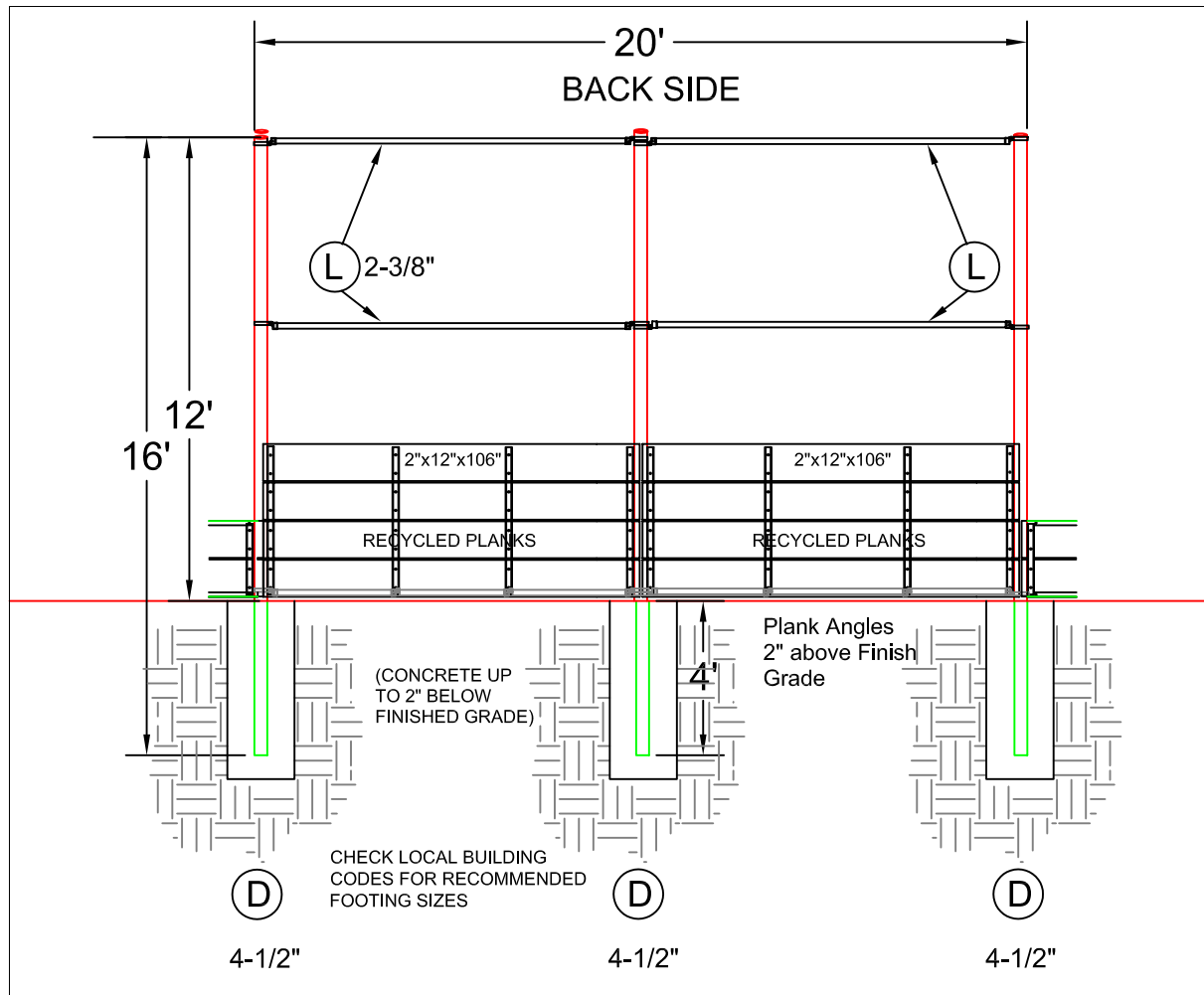
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Install Backstop Wire Mesh

- a) Wire mesh is to be installed using tension bars, tension bands and tie wire. Wire mesh will be installed on the lower vertical portion of the backstop using the appropriate height wire mesh in rolls. Wire mesh will be installed on the upper portion of the backstop. Wire mesh is installed on the top portion of the backstop using the appropriate height wire mesh in rolls trimmed to size.
- b) Wire mesh is to be installed by inserting tension bar into wire roll or panel end. Wire end with tension bar is to be installed in position on the appropriate starting post location using tension bands. Wire roll or panel is to be stretched as tightly as possible and trimmed to accept second tension bar for attachment to ending post for specified roll or panel install location. After mesh roll or panel is installed with tension bars and bands, tie wire is to be installed to mesh and to any post or brace adjoining the top or bottom edge of the mesh. Tie wire is also to be installed wherever wire mesh covers any post or brace.
- c) **Note:** Additional tension bars are to be trimmed and installed between all vertical posts at the lower edge of the wire mesh roll where backstop wood is to be installed.
- d) **Note:** Our recommendation is that the tie wires be installed every 18" to 24" maximum at the locations specified above.



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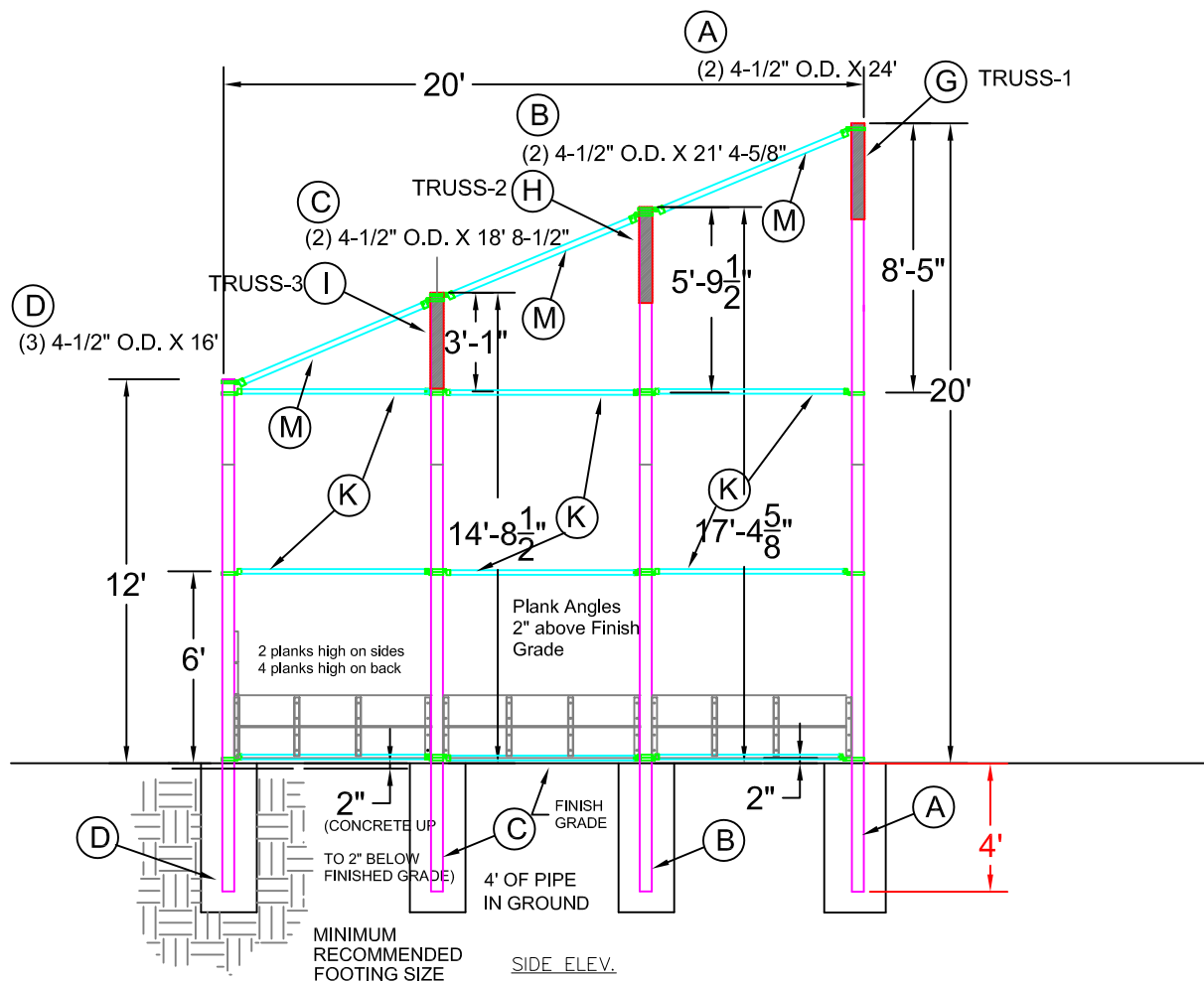
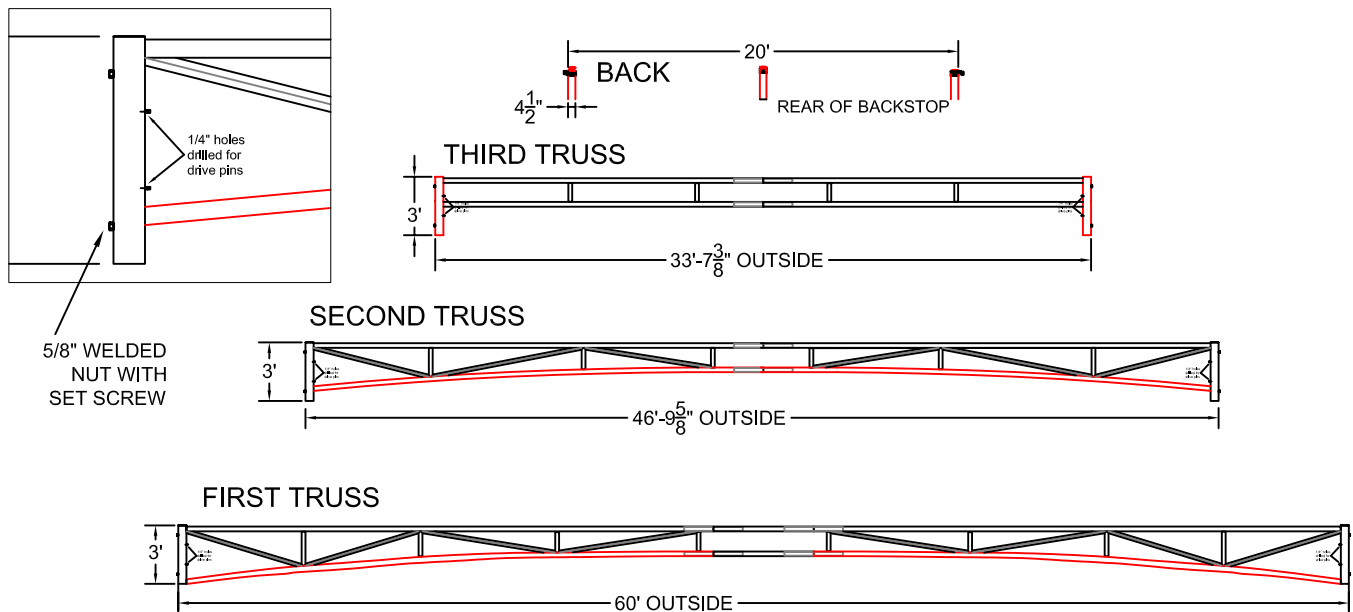
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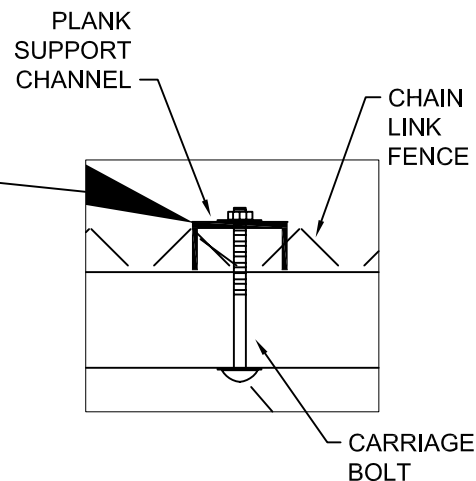
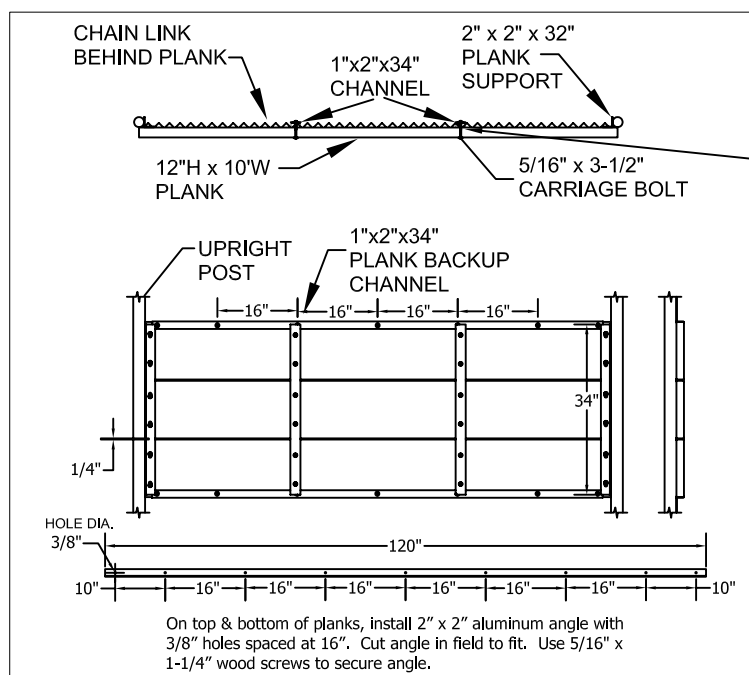
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1246-43 MATERIAL LIST

MATERIAL LIST	QTY
4-1/2" O.D. x 24' Support Posts (A)	2
4-1/2" O.D. x 21' 4-5/8" Support Posts (B)	2
4-1/2" O.D. x 18' 8-1/2" Support Posts (C)	2
4-1/2" O.D. x 16' Rear Corner Post Right (D)	3
Horizontal Side Rails 1-5/8" O.D. x 103-1/2" (K)	18
Top Diag. Side Brace 1-5/8" O.D. x 102-1/2" (M)	6
Truss Rails 1-5/8" x 76" (Q)	9
Horz. Rear Rails 2-3/8" X 109" Tube (L)	6
Two Piece Front Truss (G)	2
Two Piece Center Truss (H)	2
Two Piece Rear Truss (I)	2
8' Tension Bars	8
10' Tension Bars	8
12' Tension Bars	6
10 Tension Bars - Drilled	8
12" tie Wires (lbs)	12
Hog Rings (lbs)	8
Recycled Plastic Plank 2" x 12" x 10'	22
(Planks cut to fit in field)	
2" x 1" x 22" Steel Channel Drilled	12
2" x 1" x 58" Steel Channel Drilled	4
2" x 2" Alum. Angle Drilled (for planks)	16
2" x 11ga x 6' Mesh (ft) (Top)	150
2" x 9 ga x 12' Mesh (ft) (Bottom)	75
2" x 9 ga x 8' Mesh (ft) (Bottom)	50

Component Description	Qty
1-5/8" Rail Ends	66
2-3/8" Rail Ends	12
4-1/2" Brace Bands	48
4-1/2" Tension Bands	136
5" Custom Bace Bands	10
#10 x 1/2" Drive Screw	78
1/4" x 1" Drive Screw	12
5/16" x 1-1/4" Lag bolts	144
5/16"-18 x 1-1/2" Carriage Bolts	48
5/16"-18 x 1-1/4" Carriage Bolts	136
5/16"-18 Hex Nut	344
5/16"-16 x 2-1/2" Carriage Bolts	80
5/16"-16 x 3-1/2" Carriage Bolts	80
5/16"-16 Flat Washer	344
516"-16 Lock Washer	344
Hog rings (lbs)	10
12" Tie Wire (lbs)	8
#25 Drill Bit (Rail Ends)	2
7/32" Drill Bit (Truss Sleeve)	1
5/8" x 7/8" Socket Set Screw	12
5/16' Hex Key Wrench	1
3/8"-16 x 1-1/2" Carriage Bolts	10
3/8"-16 Flat Washer	10
3/8"-16 Lock Washer	10
3/8"-16-Hex Nut	10
3/8" x 2-1/4" Hex Bolt	12
3/8" ButtonHead bolt	12



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