# Monumental Rail Installation Instructions

1. After careful measuring, cut top rail cap, bottom rail, and bottom seal plate for snug but easy fit between support posts. Top rail assembly beam is cut 3/8" shorter than top rail cap to compensate for 3/16" brackets to be added to each end.

   After cutting top rail, put it aside in a safe location. There are no further operations to be done with it until end of job.

2. Determine baluster spacing and pre drill 3/16" holes in bottom rail, and top rail assembly beam. Both have centerline scribed for easy alignment. After drilling, it is wise to mark one end of both bottom rail and top rail assembly beam and keep marked ends oriented in the same direction through process. Bottom rail brackets can now be installed. With bottom rail inverted on a padded surface, place bottom bracket into "keeper ridges" (Figure 1) inside bottom rail with forked side of bracket facing up and flush with end of rail. Install two #10 x ¾" Tek screws through holes in bracket and into bottom rail. Repeat on other end.

3. Top rail brackets can now be installed onto top rail assembly beam. With beam sitting on its flat side. Insert #10 x 1" counter sunk screws through countersunk pilot hole and into "screw boss" slots on inside of beam. (It might be helpful to scrape threads of screws across a dry bar of soap to lubricate them for easier installation.) Repeat on other end.

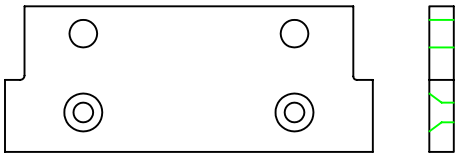
4. With brackets installed, rail can be assembled. Start by turning two balusters upside down on floor or work surface. Apply a thin ring of PL premium urethane based adhesive to area around screw hole on baluster. Then place one baluster under each end of inverted bottom rail. Place #10 x 2 ½" drill point screw into end pilot hole of rail and drive into center of baluster. Repeat with second baluster on other end of bottom rail. Using padded clamps, clamp a straight edge across the two balusters (Figure 2). This will align each with the other and will serve as a fence for installation of other balusters. Drive screws snug. Invert rail assembly so it is "right side up" and install top rail assembly beam in a similar manner.

5. Installing rail is extremely simple. For bottom rail fastener determine height of installation above floor level and install 5/16" stainless lag screw, or other fastener if desired, into support columns (at both ends of rail leaving 5/16" of screws exposed). Lower assembled rail onto screws. Center the top rail assembly beam on support post and drive 2" self drilling screws through top rail bracket holes and into supports (both ends) (Figure 3). Top rail cap can now be installed to complete job. Mark and drill a 3/16" hole thru top assembly beam between 1st and 2nd baluster and also one at appropriate center of rail (Figure 4). Place PVC anchoring blocks in top rail cap to correspond exactly to the location of these screw holes. Place top rail cap on top assembly beam and press down to snap in place. Install screws through holes into PVC anchoring blocks and tighten snugly, but not excessively. Snap bottom seal plate into bottom rail to complete assembly.

# Hardware List

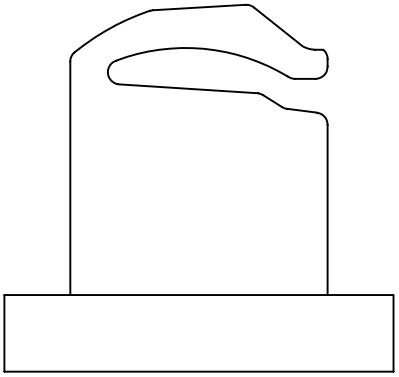
Top Rail Bracket to
Assembly Beam Screw
#10x1”
(MRS–10X1SSCS)(Qty:4)

Top Rail Bracket to
Newel Post Screw
#10x2 1/2”
(MRS–10X2.5SSSD)(Qty:4)



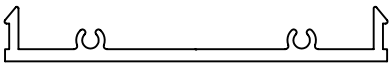
Top Rail Bracket
(MRS–TBK)(Qty:2)

Anchoring Block Screw
#12x2 1/2”
(MRS–12X2.5SSPHST)(Qty:3)



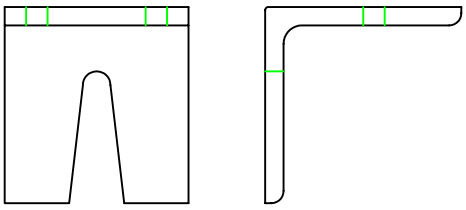
PVC Anchoring Block
(MRS–AB)(Qty:3)

Baluster Screw
#10x3”
(MRS–10X3SSBS)(Qty:Dependent on
Baluster Size and Rail Length)

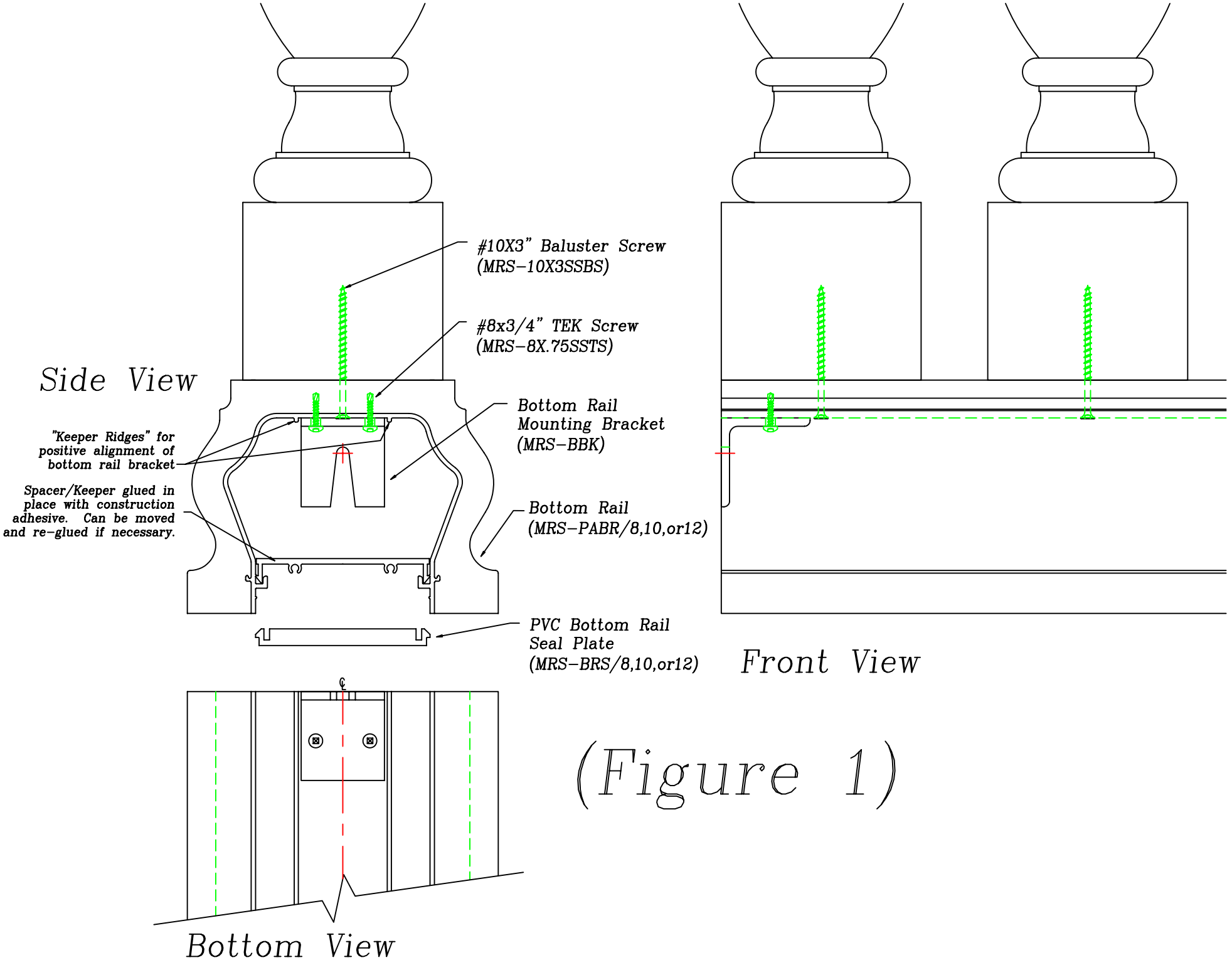


Top Rail
Assembly Beam
(MRS–AP/8,10,or12)

Bottom Bracket Screw
#8x3/4”
(MRS–8X.75SSTS)(Qty:4)

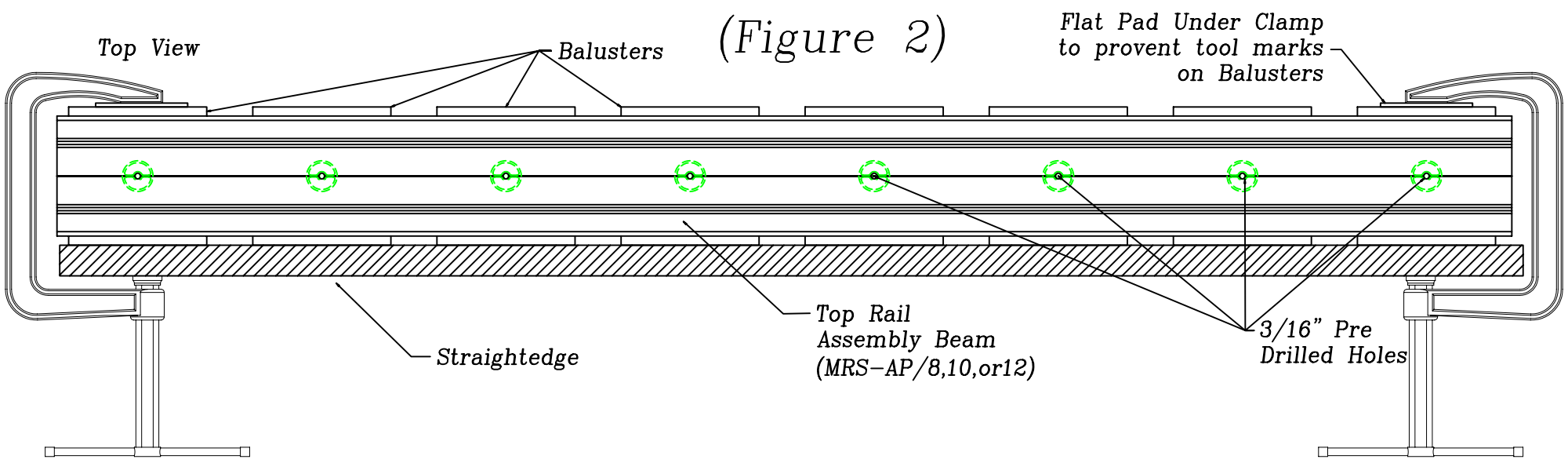


Bottom Rail
Mounting Bracket
(MRS–BBK)(Qty:2)

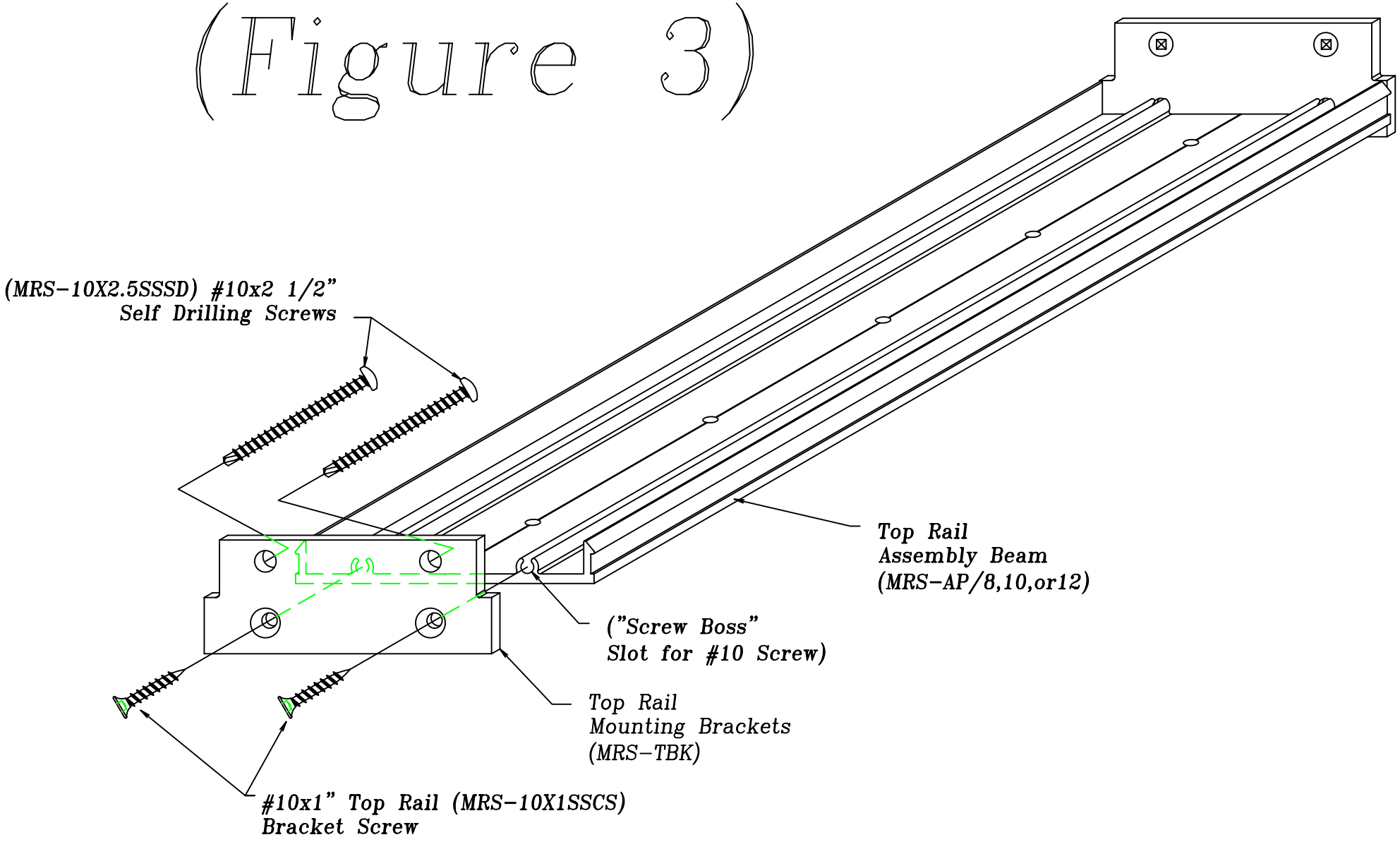

#10X3" Baluster Screw
(MRS-10X3SSBS)
#8x3/4" TEK Screw
(MRS-8X.75SSTS)
Side View
"Keeper Ridges" for positive alignment of bottom rail bracket
Bottom Rail Mounting Bracket (MRS-BBK)
Spacer/Keeper glued in place with construction adhesive. Can be moved and re-glued if necessary.
Bottom Rail (MRS-PABR/8,10,or12)
PVC Bottom Rail Seal Plate (MRS-BRS/8,10,or12)
Front View
Bottom View

(Figure 1)

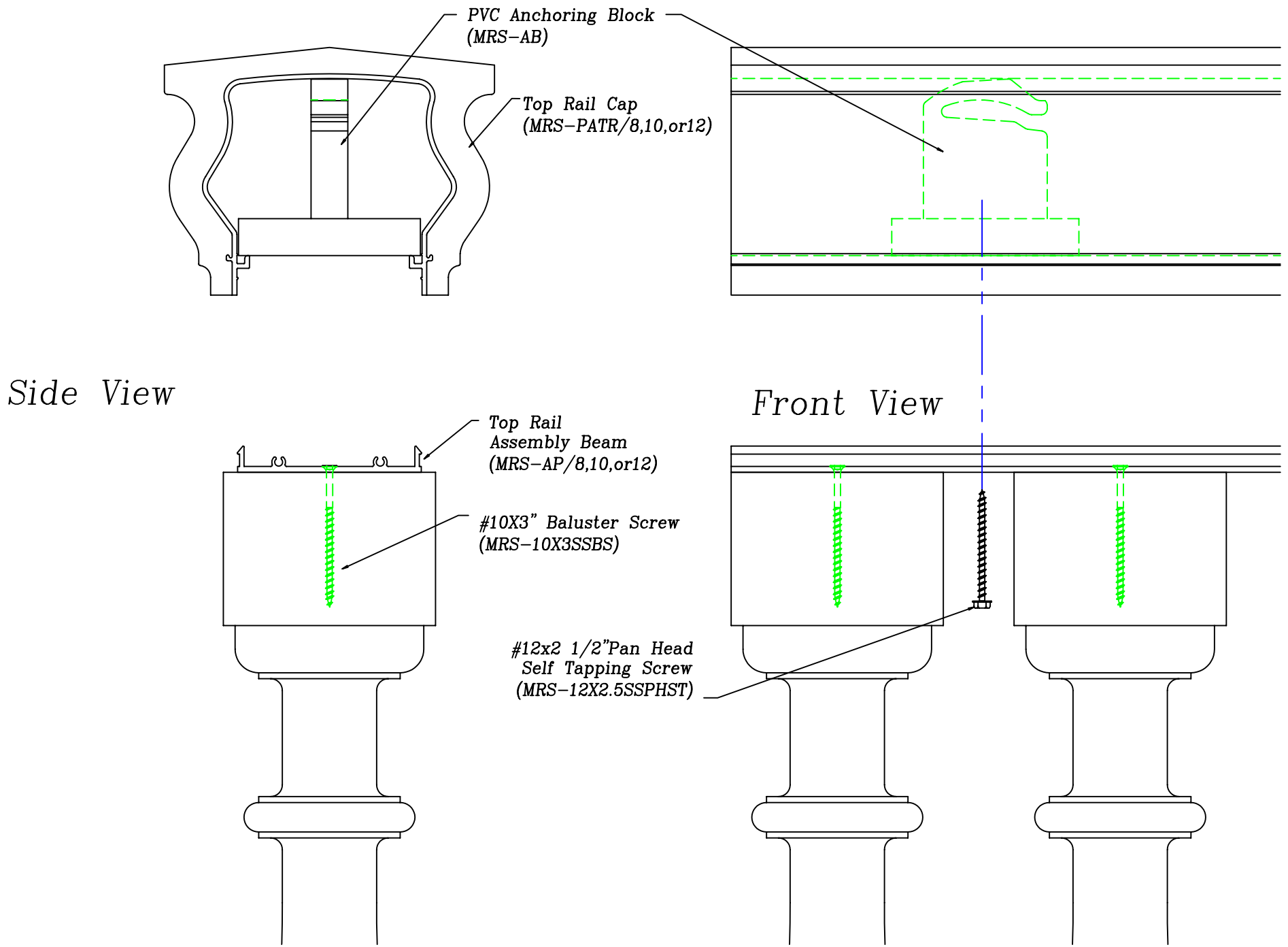
(Figure 2)


Top View
Balusters
Flat Pad Under Clamp
to provent tool marks
on Balusters
Straightedge
Top Rail
Assembly Beam
(MRS–AP/8,10,or12)
3/16" Pre
Drilled Holes

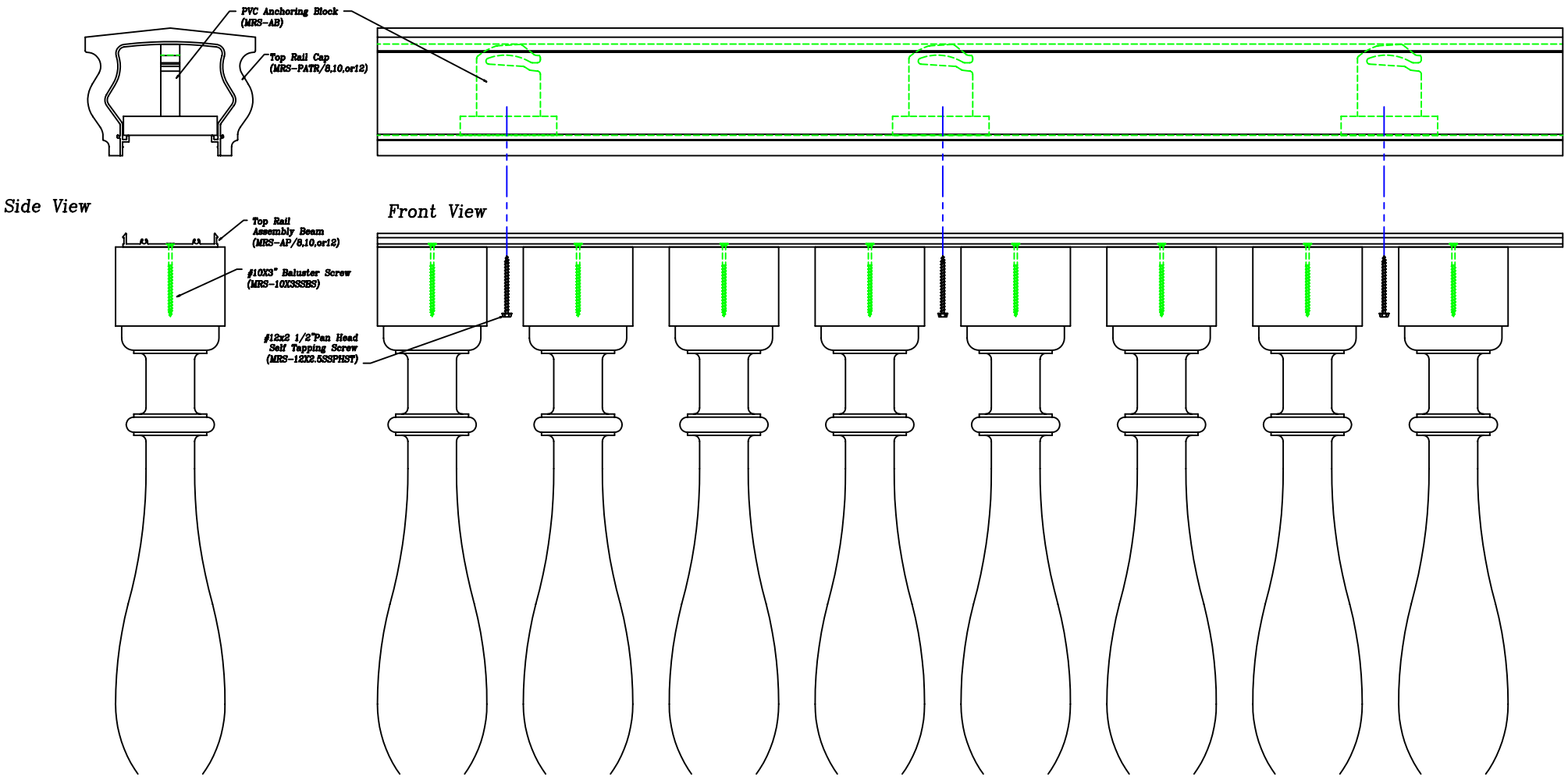
# (Figure 3)


(MRS-10X2.5SSSD) #10x2 1/2"
Self Drilling Screws
Top Rail
Assembly Beam
(MRS-AP/8,10,or12)
("Screw Boss"
Slot for #10 Screw)
Top Rail
Mounting Brackets
(MRS-TBK)
#10x1" Top Rail (MRS-10X1SSCS)
Bracket Screw

# (Figure 4)


PVC Anchoring Block
(MRS-AB)
Top Rail Cap
(MRS-PATR/8,10,or12)
Side View
Front View
Top Rail
Assembly Beam
(MRS-AP/8,10,or12)
#10X3" Baluster Screw
(MRS-10X3SSBS)
#12x2 1/2"Pan Head
Self Tapping Screw
(MRS-12X2.5SSPHST)

(Figure 4.1)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(MRS-AB)
Top Rail Cap
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Side View
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