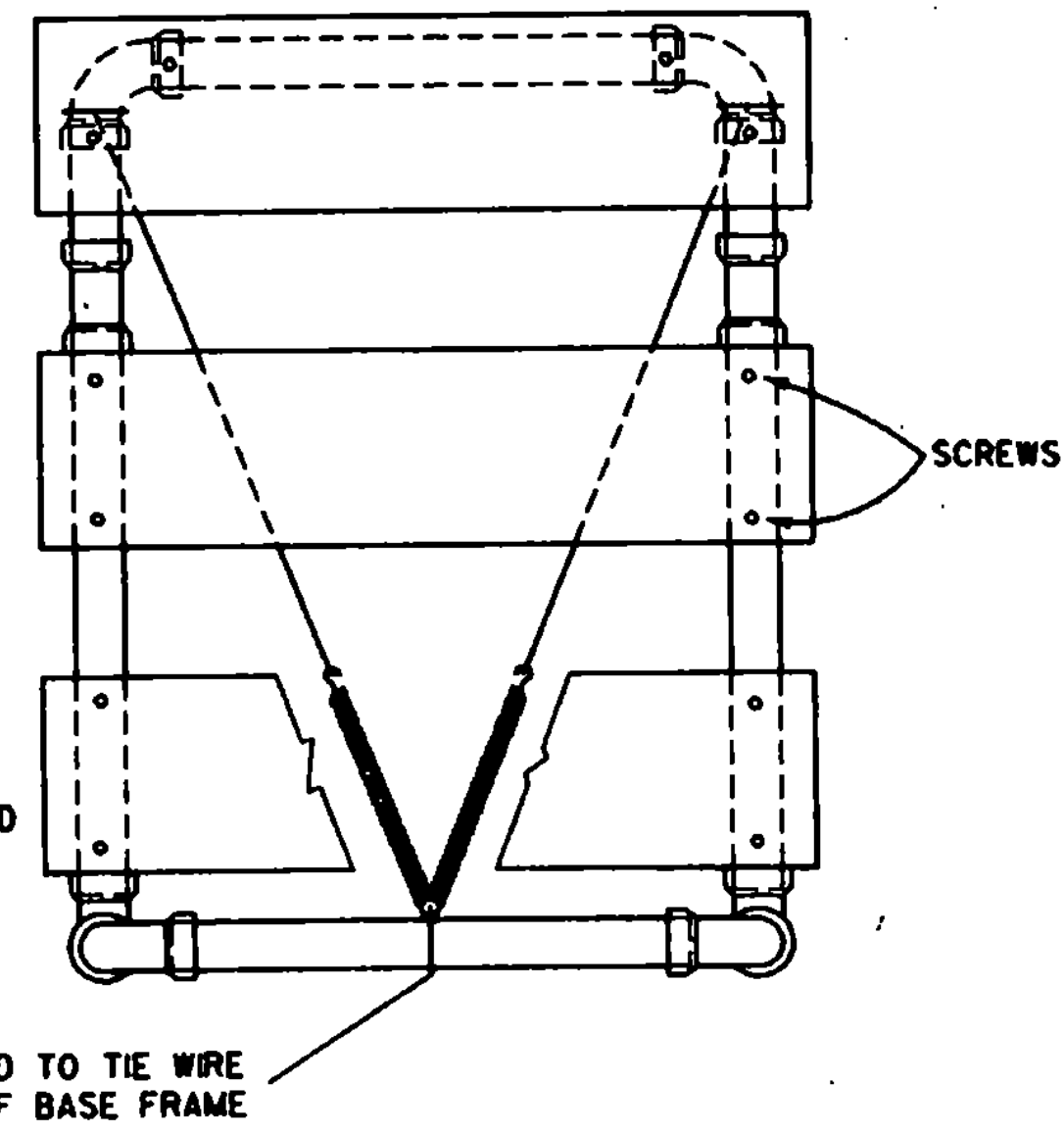
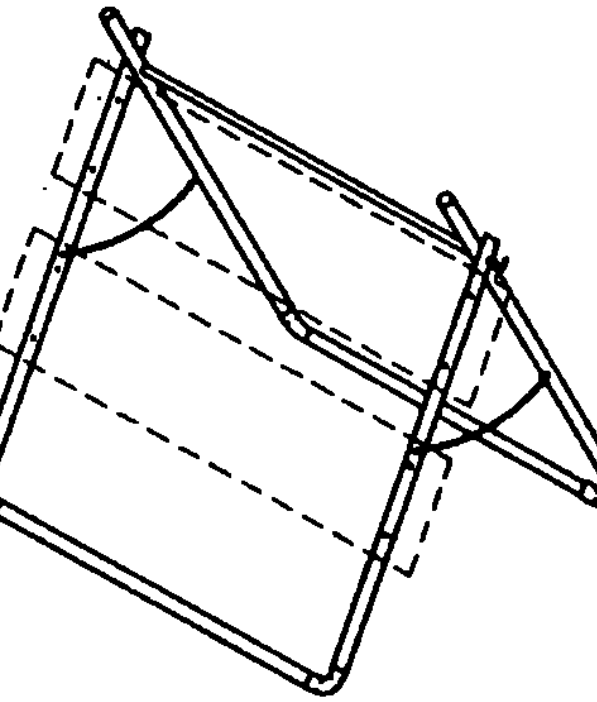
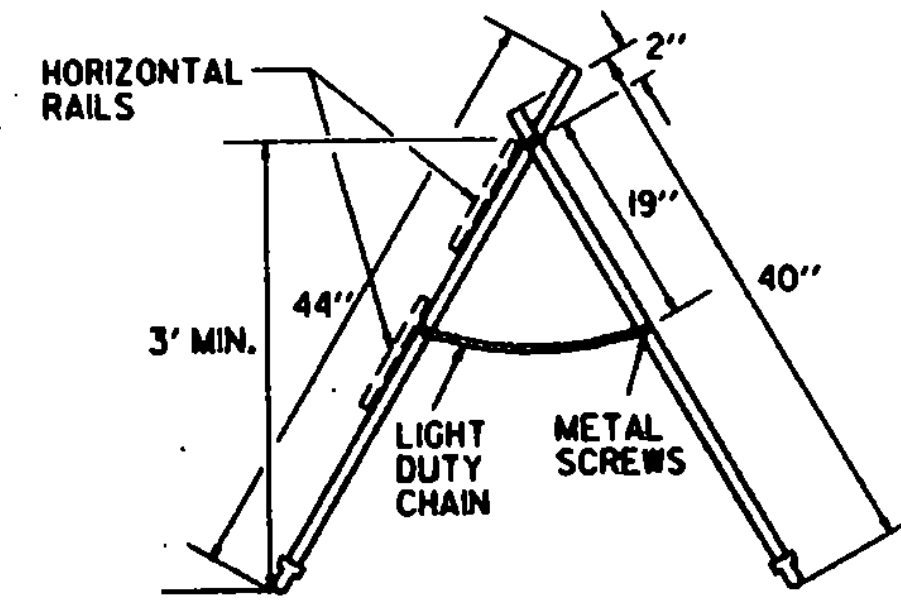
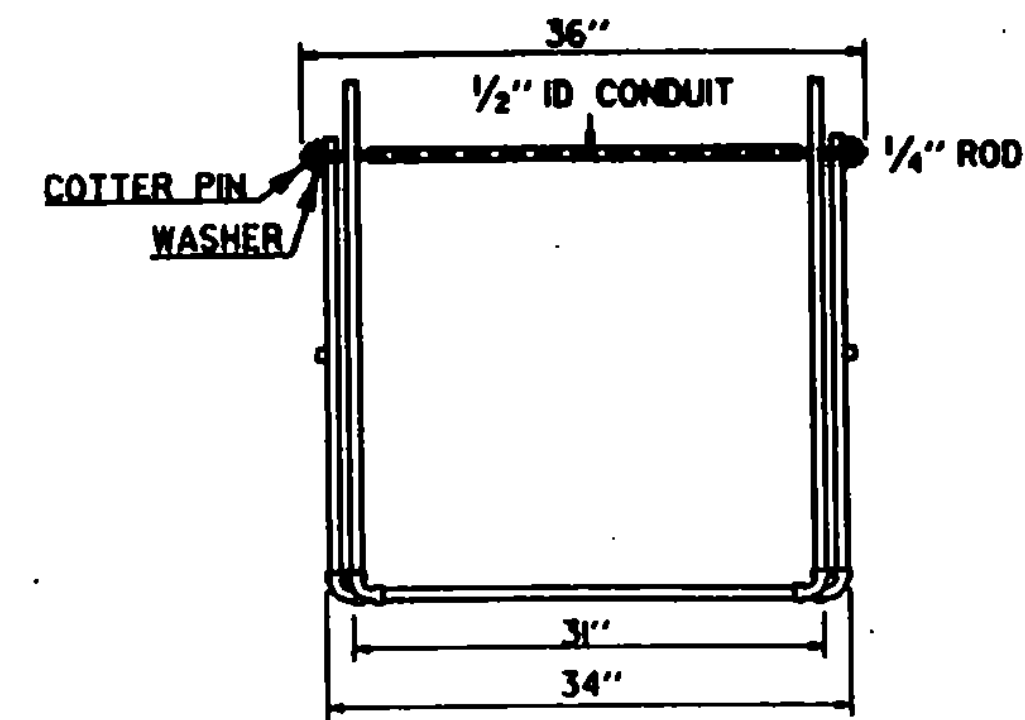


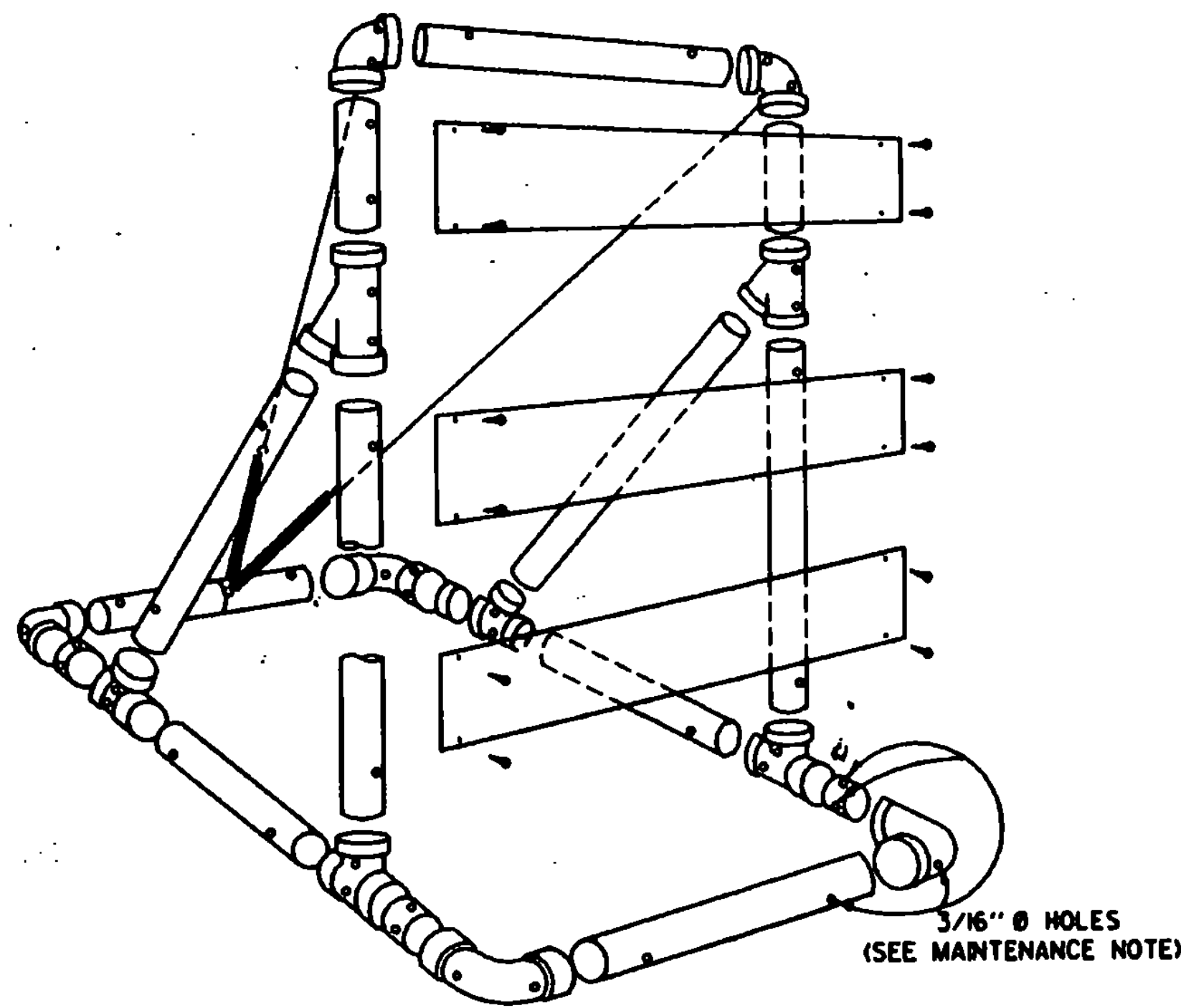
SIDE VIEW  
TYPE III BARRICADE



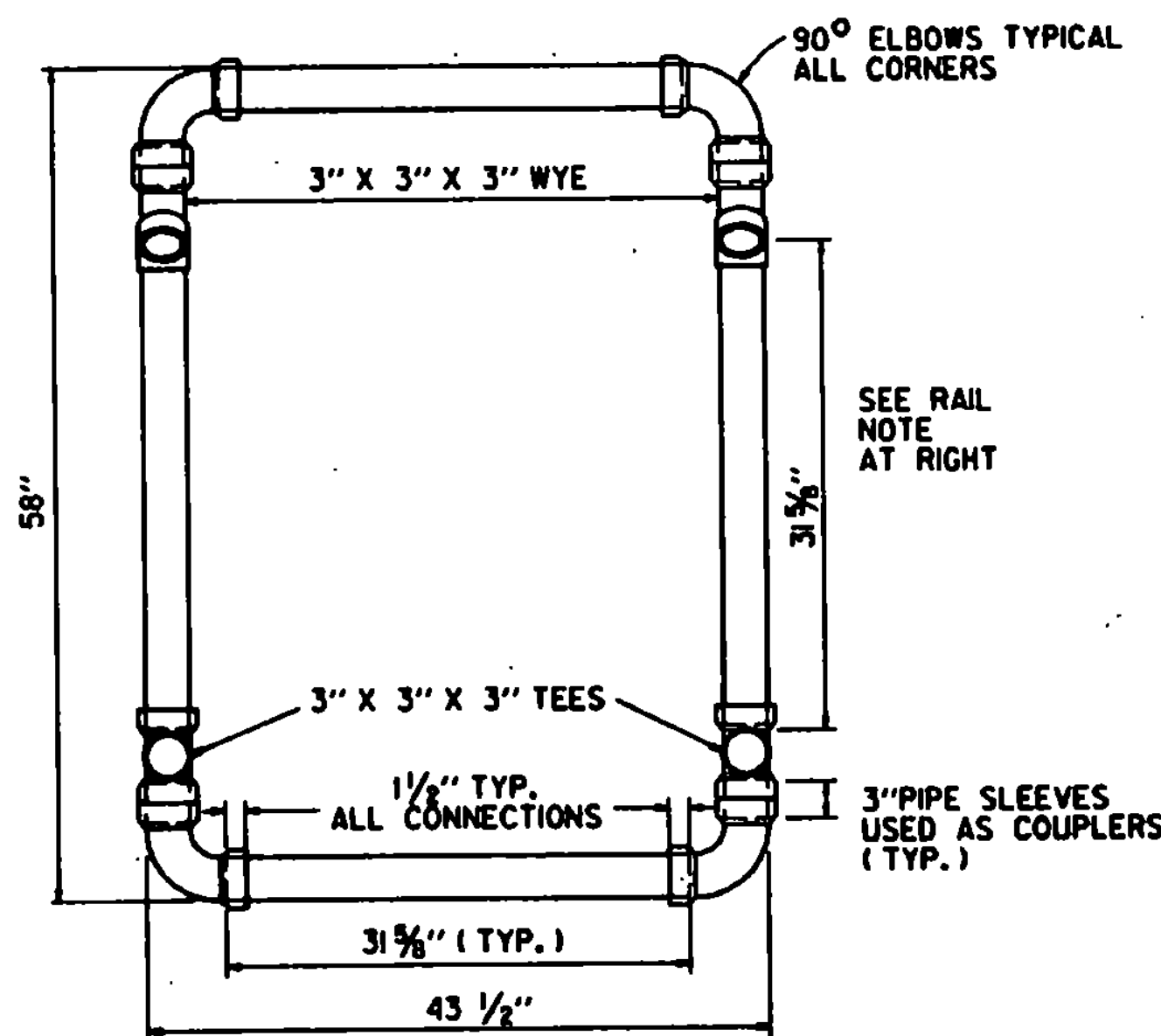
FRONT VIEW  
TYPE III BARRICADE



TYPE I AND II BARRICADE DETAIL



TYPE III BARRICADE ASSEMBLY  
EXPLODED VIEW



TYPE III BARRICADE  
TOP VIEW OF  
BASE

MATERIALS FOR TYPE I AND II BARRICADES

- 20' - 1" PVC
- 4 - 1" PVC 90° ELBOWS
- 30" - 1/2" ID THINWALL CONDUIT
- 36" - 1/2" STEEL ROD
- 4 - 1" WASHERS
- 24" - LIGHT DUTY CHAIN
- METAL SCREWS (AS REQUIRED)
- 2 - 3/4" COTTER PINS

MATERIALS FOR TYPE III BARRICADE

- 30' - 3" ID PVC PIPE
- 6 - 3" 90° ELBOWS
- 2 - 3" TEES
- 4 - 3" WYES
- 2 - 3" x 48" x 0.025" BARRICADE RAILS
- 2 - 3/8" x 11" x 8 SPRING (IF ASSEMBLY IS NOT CEMENTED)
- 12 - #14 PAN HEAD METAL SCREWS
- 15 LF - #14 BLACK ANNEALED TIE WIRE (IF ASSEMBLY IS NOT CEMENTED)

MATERIALS

THE PIPE, WYES, TEES AND ELBOWS USED TO CONSTRUCT BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 224 FOR P.V.C. #20 OR #220 SDR-21, PRESSURE RATING 200 PSL. THE WYES, TEES AND ELBOWS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 2466, TYPE II, GRADE I. ALL JOINTS SHALL BE SLIP-FIT AND MAY BE LIGHTLY CEMENTED. THE BARRICADE RAILS SHALL BE FABRICATED FROM 0.025" ANODIZED ALUMINUM AND SHALL HAVE REFLECTORIZED ALTERNATING ORANGE AND WHITE STRIPS (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS).

MAINTENANCE

BARRICADES SHALL BE MAINTAINED IN CLEAN CONDITION SATISFACTORY TO THE ENGINEER. THEY SHALL BE COMPLETELY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. DAMAGED, DEFACED, OR DIRTY BARRICADES SHALL BE REPAIRED, CLEANED OR REPLACED AS ORDERED BY THE ENGINEER. THE P.V.C. PIPE AND FITTINGS SHALL BE WHITE IN COLOR. AT LEAST TWO (2) HOLES SHALL BE DRILLED (3/8") IN EACH SECTION OF PIPE AND FITTINGS IF THE ASSEMBLY IS NOT CEMENTED.

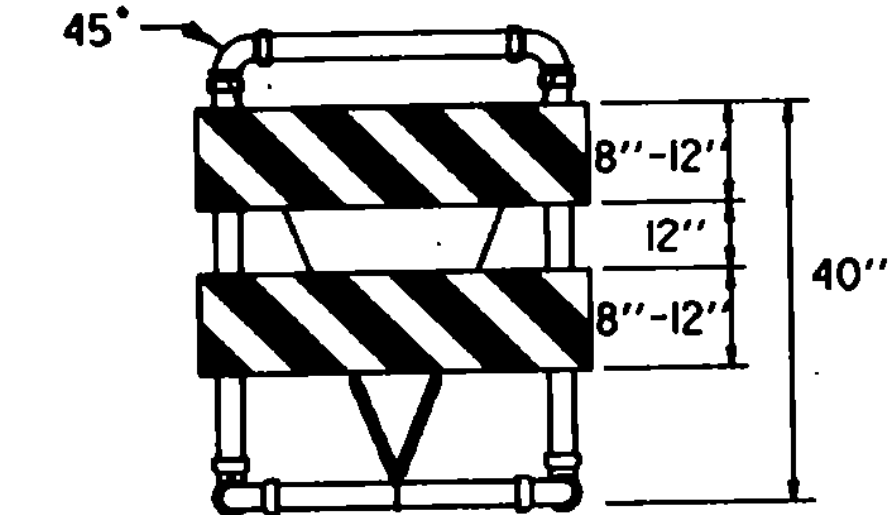
BARRICADES SHALL BE STABILIZED WITH SAND BAGS OF MINIMUM WEIGHT WHICH WILL NOT CONSTITUTE A HAZARD IF THE BARRICADE IS HIT. THESE SHALL BE PLACED ONLY ON THE FRONT AND REAR PIPES OF THE BASE FRAME OF THE BARRICADE. SAND BAG STABILIZERS SHALL BE SO PLACED AS NOT TO BE A HAZARD TO VEHICLES PASSING ON EITHER SIDE. IF BARRICADE REPLACEMENT COSTS CAN BE CONSIDERED NEGLIGIBLE, GLOUED JOINTS MAY PROVIDE ADDITIONAL STABILITY TO THE INSTALLATION.

TYPE I BARRICADES SHALL UTILIZE ONE HORIZONTAL RAIL.

TYPE II BARRICADES SHALL CONSIST OF AN ADDITIONAL HORIZONTAL RAIL MOUNTED BELOW THE OTHER.

TYPE III BARRICADES (MODIFIED) SHALL CONSIST OF THE BREAKAWAY 3" PVC DESIGN SHOWN ON THIS SHEET WITH THE TWO RAIL LAYOUT DETAILED BELOW.

SEE STD E-107 FOR ADDITIONAL INFORMATION.



TYPE III (MODIFIED) BARRICADE  
(STRIPING DOWN WHERE TRAFFIC PASSES ON RIGHT).

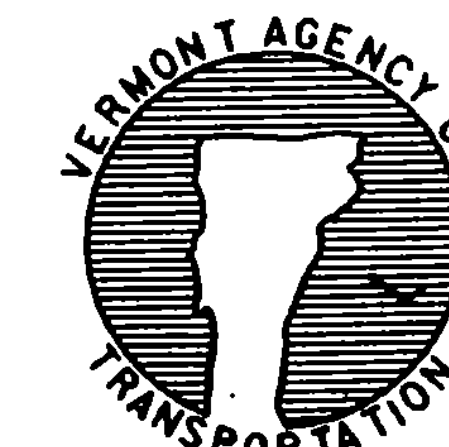
SEE STANDARD E-107 FOR RAIL DETAILS.  
RAILS ATTACHED WITH 1" NO. 14 PAN HEAD METAL SCREWS.

REVISIONS AND CORRECTIONS

APPROVED

SEPT. 10, 1987  
DATE  
*David W. Kelley*  
CHIEF ENGINEER  
*Arthur J. ...*  
DIRECTOR OF PLANNING  
AND PRE-CONSTRUCTION  
*Gordon B. MacArthur*  
TRAFFIC AND SAFETY ENGINEER

# BREAKAWAY BARRICADE DETAILS



# STANDARD E-107a