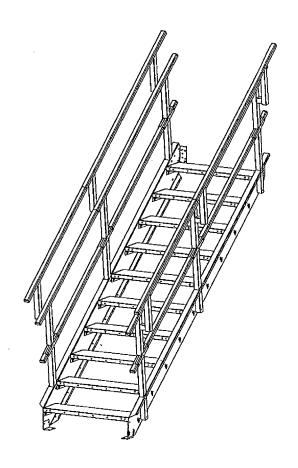
ISSUED 5/22/17

220ASY

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'S' - SERIES STAIRWAY ASSEMBLY INSTRUCTIONS



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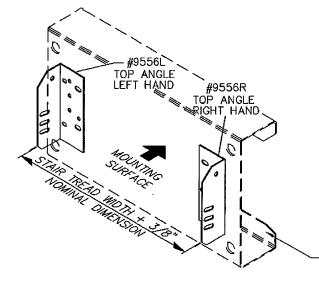
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STAIRWAY ASSEMBLY

TOP ANGLE ASSEMBLY

1a) MOUNTING TOP ANGLE TO BUILDING STRUCTURE

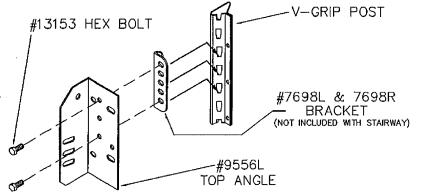


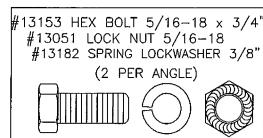
NOTE

IF MOUNTING TO BUILDING STRUCTURE, REAR SURFACE OF ANGLE MUST BE IN A PERPENDICULAR LINE, FLUSH WITH THE OUTER EDGE OF MEZZANINE PLATFORM TO GAIN FULL ADVANTAGE OF THE TOP STAIR TREAD DEPTH. A MINIMUM OF (2) FASTENERS MUST BE INSTALLED IN EACH ANGLE. IF ANGLE IS TO BE FASTENED TO THE WALL, ANCHORS MUST BE FURNISHED BY OTHERS. DO NOT TIGHTEN FASTENERS UNTIL STAIRWAY IS COMPLETELY ASSEMBLED.

TO MOUNT STAIRWAY TO EQUIPTO MEZZANINE SEE MEZZANINE INSTRUCTIONS.

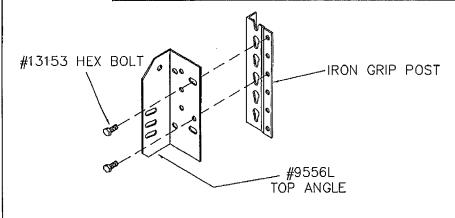
1b) MOUNTING TOP ANGLE TO V-GRIP UPRIGHT



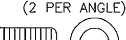


FULL SCALE

1c) MOUNTING TOP ANGLE TO IRON GRIP UPRIGHT



#13153 HEX BOLT 5/16-18 x 3/4" #13051 LOCK NUT 5/16-18 #13182 SPRING LOCKWASHER 3/8"

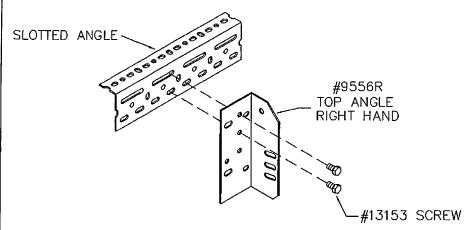


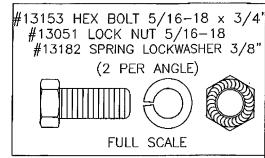




FULL SCALE

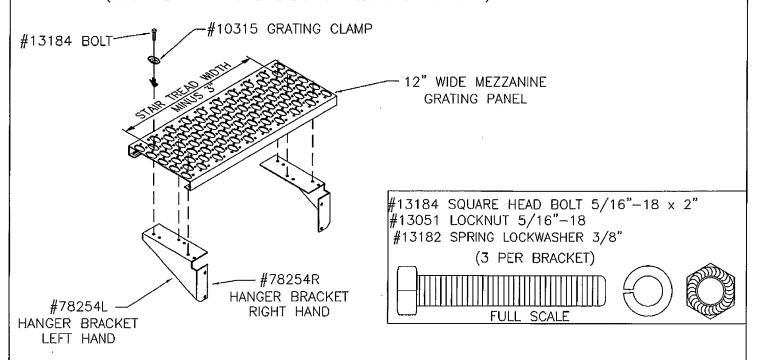
1d) MOUNTING TOP ANGLE TO SLOTTED ANGLE



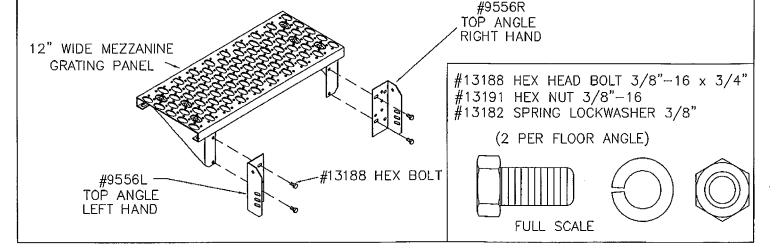


1e) MOUNTING TOP ANGLE TO GRATING

ASSEMBLE HANGER BRACKET TO GRATING PANEL
(HARDWARE AND HANGER BRACKETS NOT INCLUDED WITH STAIRWAY)



ASSEMBLE TOP ANGLE TO HANGER BRACKET



(2)

RISER PANEL ASSEMBLY

2a) ASSEMBLE RISER PANEL TO TOP ANGLE

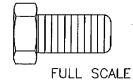
#9556R TOP ANGLE AF LIF PO TH TO TO WI TH RIS DO DETERMINE POSTION OF SECOND BOLT AT TIME OF INSTALLATION RISER PANEL LEFT HAND

NOTE

AFTER THE TOP ANGLES ARE IN PLACE, LIFT TOP END OF THE RISER PANEL INTO POSITION WITH THE VERTICAL SURFACE OF THE RISER PANEL TO THE INSIDE OF THE TOP ANGLE AND THE SLOTTED TOP FLANGE TO THE OUTSIDE. REPEAT THIS PROCEDURE WITH THE OPPOSITE RISER PANEL. DURING THIS ASSEMBLY THE BOTTOM ENDS OF THE RISERS ARE TO REST ON THE FLOOR. DO NOT TIGHTEN BOLTS AT THIS POINT.

#13188 HEX HEAD BOLT 3/8"-16 x 3/4" #13191 HEX NUT 3/8"-16 #13182 SPRING LOCKWASHER 3/8"

(2 PER TOP ANGLE)







2b) MOUNTING RISER PANEL TO FLOOR ANGLE

NOTE

RISER PANEL
RIGHT HAND

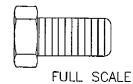
RISER PANEL
RIGHT HAND

RASS
TRE
BOT
STA
BUT
ASS
FUR
#13188 HEX BOLT

WITH THE RISER PANEL FASTENED TO THE TOP ANGLE, RAISE LOWER END OF THE RISER PANEL FROM THE FLOOR AND FASTEN THE BASE ANGLE IN PLACE. AFTER INSTALLING STAIR TREADS MOVE BOLTS IN RISER PANEL TO MAKE BOTTOM STEP EQUAL TO OTHER STEPS. STAIRWAY IS TO BE ANCHORED TO THE FLOOR BUT NOT UNTIL STAIRWAY IS COMPLETELY ASSEMBLED. FLOOR ANCHORS ARE TO BE FURNISHED BY OTHERS.

#13188 HEX HEAD BOLT 3/8"-16 x 3/4" #13191 HEX NUT 3/8"-16 #13182 SPRING LOCKWASHER 3/8"

(2 PER FLOOR ANGLE)

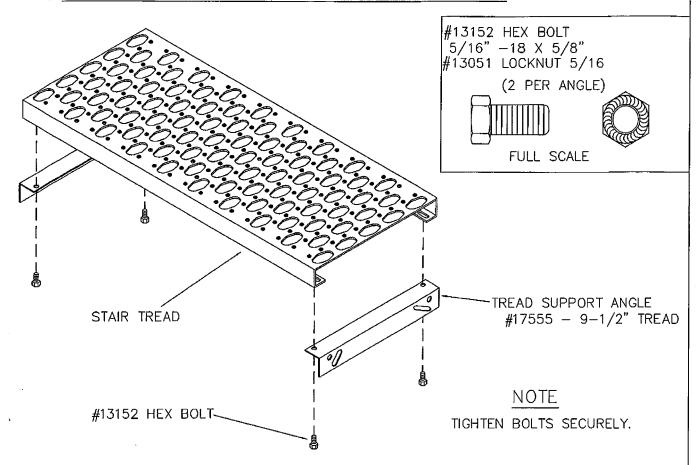




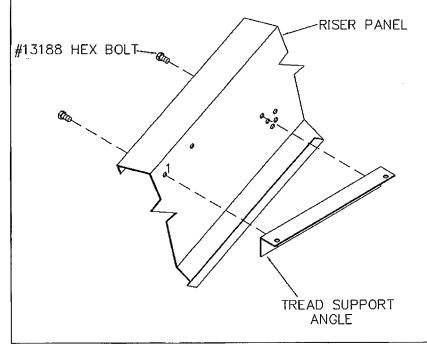


STAIR TREAD ASSEMBLY

3a) STAIR TREAD AND SUPPORT ANGLE ASSEMBLY



3b) FASTENING STAIR TREAD ASSEMBLY TO RISER

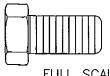


NOTE

STAIR TREAD NOT SHOWN FOR CLARITY. BOLT TREAD SUPPORT ANGLE TO HOLE 1 IN THE RISER PANEL. LEVEL TREAD SUPPORT ANGLE AND BOLT THE OTHER END OF ANGLE IN THIS POSITION. DO NOT TIGHTEN TREADS UNTIL ALL STAIR TREADS ARE IN PLACE.

#13188 HEX HEAD BOLT 3/8"-16 x 3/4" #13191 HEX NUT 3/8"-16 #13182 SPRING LOCKWASHER 3/8"

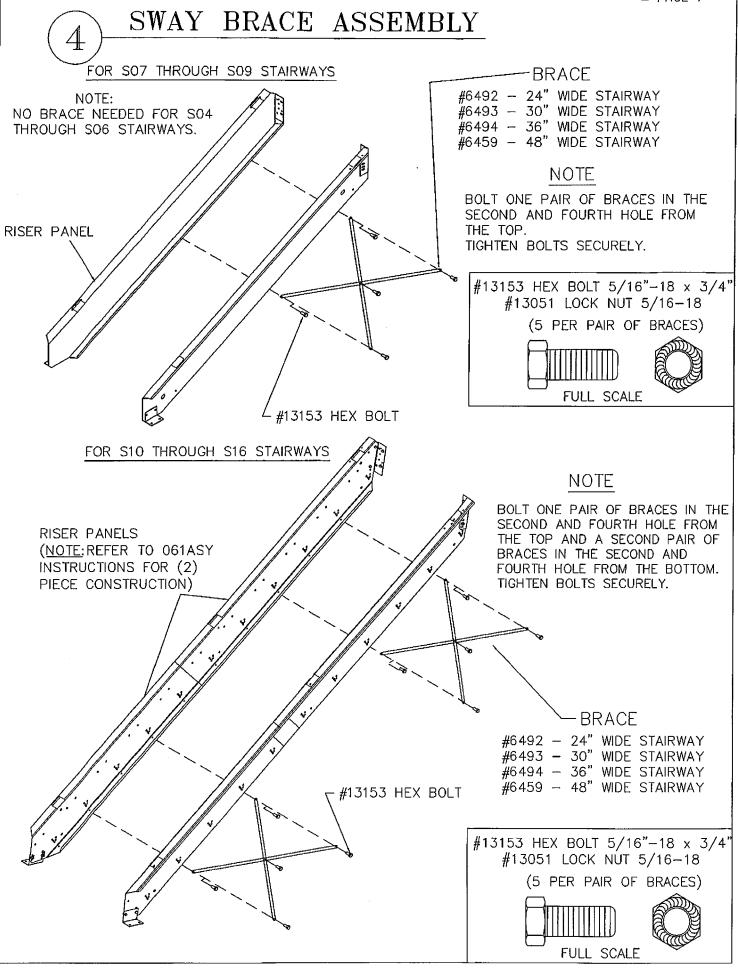
(2 PER SUPPORT ANGLE)







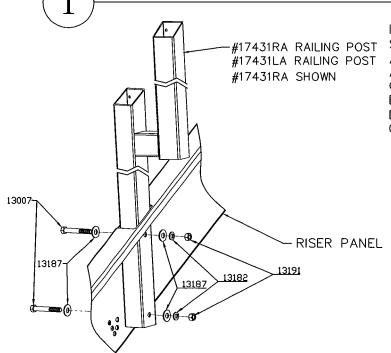
FULL SCALE



STAIR RAILING ASSEMBLY

RAILING POST ASSEMBLY

NOTE



INSERT POST THRU SLOT IN RISER PANEL SO THAT THE HOLES IN THE TOP OF THE POST ARE FACING TOWARD TOP OF THE STAIRWAY AND THE EXTENSIONS ARE TO THE OUTSIDE OF THE STAIRWAY.

BOLT POSTS TO RISER PANEL AS SHOWN.

DO NOT TIGHTEN THESE BOLTS UNTIL COMPLETE RAIL IS ASSEMBLED.

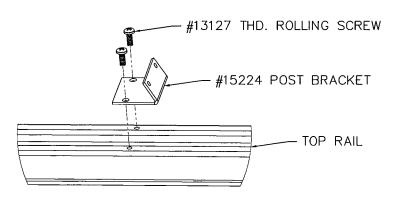
#13007 HEX HEAD BOLT 3/8"-16 x 2 3/4"
#13191 HEX NUT 3/8"-16
#13182 SPRING LOCKWASHER 3/8"
#13187 FLAT WASHER 3/8" (2 PER BOLT)

FULL SCALE

TOP HAND RAIL ASSEMBLY

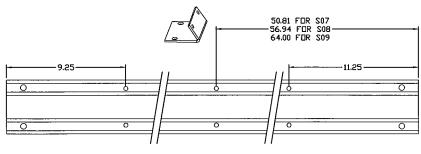
2a) FOR SO4 THROUGH SO9 STAIRWAYS

POST BRACKET ASSEMBLY TO TOP HAND RAILS



NOTE

INSTALL BRACKET SO IT POINTS TOWARD TOP END OF RAIL. TIGHTEN BOLTS SECURELY.



TOP HAND RAIL BOTTOM END

TOP HAND RAIL TOP END

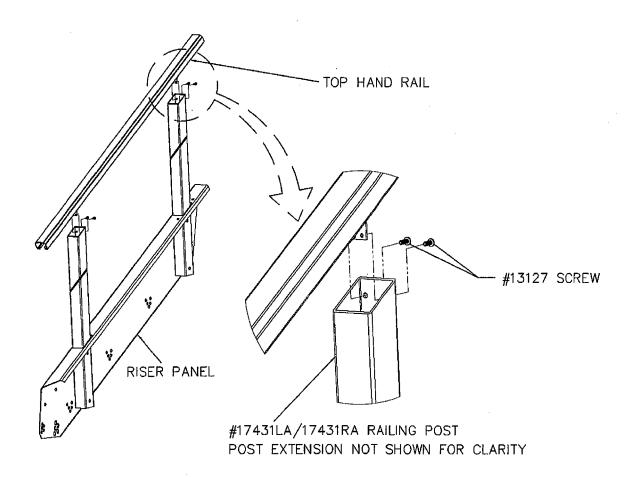
#13127 #8-32 X 7/16 PH. PAN HEAD THRD ROLLING SCREW (2 PER ASSEMBLY)



FULL SCALE

NOTE

BE SURE ALL POST BRACKETS ARE FASTENED SECURELY TO TOP RAIL. LOWER TOP RAIL OVER TOPS OF POSTS WITH BRACKETS INSIDE. FASTEN IN PLACE SECURELY.



#13127 #8-32 X 7/16 PH. PAN HEAD THRD ROLLING SCREW (2 PER ASSEMBLY)

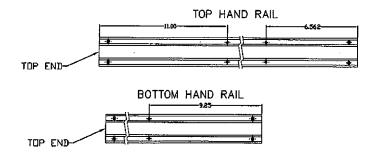


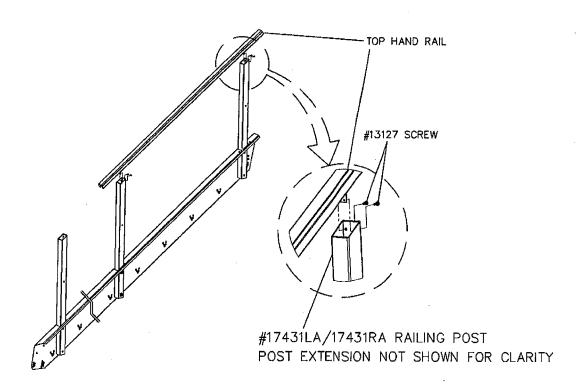
FULL SCALE

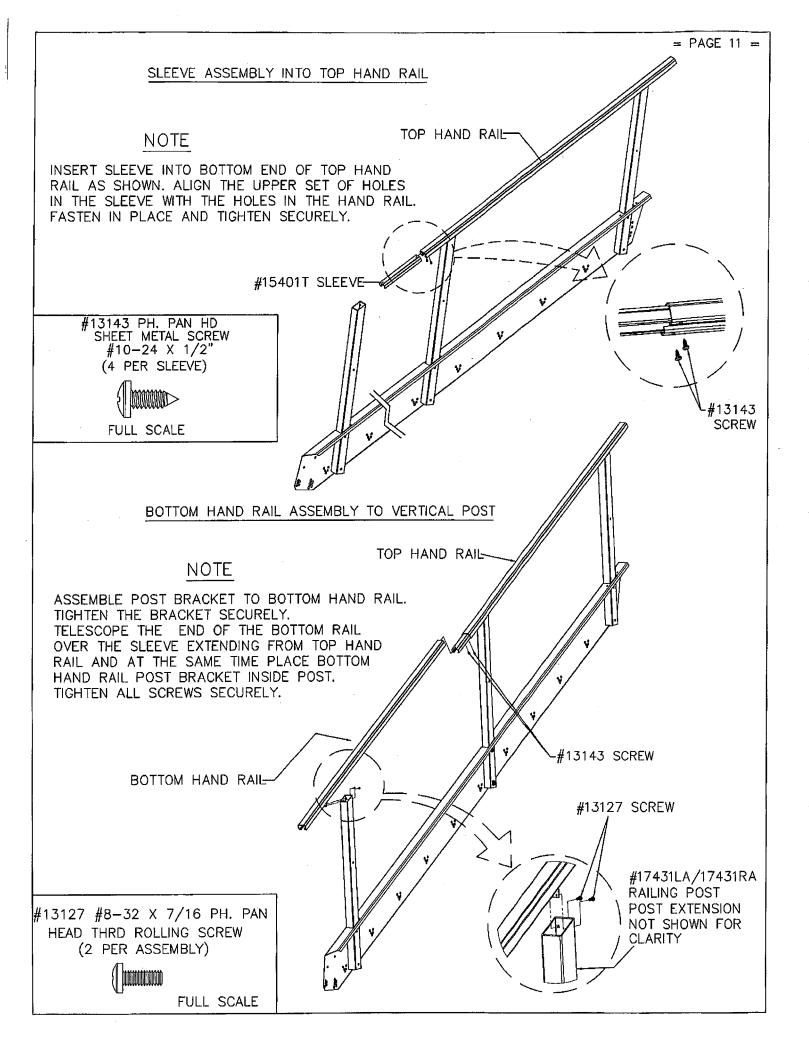
2b) FOR S10 THROUGH S11 STAIRWAYS TOP HAND RAIL ASSEMBLY TO VERTICAL POST

NOTE

ASSEMBLE POST BRACKET TO TOP HAND RAIL IN THE SAME WAY AS SHOWN AT STEP 2a. MAKE SURE ALL BRACKETS ARE TIGHTENED SECURELY TO TOP HAND RAIL AND FASTEN THE RAIL TO POSTS AS SHOWN.



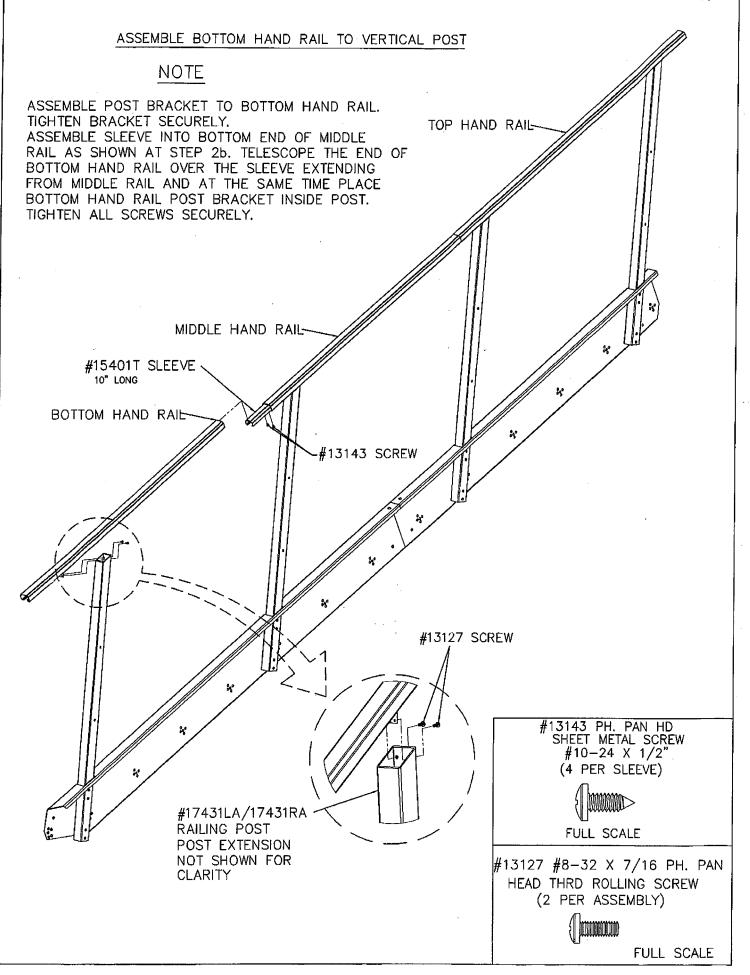




2c) FOR S12 THROUGH S16 STAIRWAYS

HAND RAIL ASSEMBLY TO VERTICAL POST

NOTE ASSEMBLE POST BRACKETS TO TOP HAND RAIL AND ASSEMBLE TOP HAND RAIL TO POSTS AS SHOWN AT STEP 2b. ASSEMBLE SLEEVE INTO BOTTOM END OF TOP HAND RAIL AS SHOWN AT STEP 2b. ASSEMBLE POST BRACKET TO MIDDLE RAIL AS SHOWN AT STEP 2b. TELESCOPE THE END OF TOP HAND RAIL-THE MIDDLE RAIL OVER THE SLEEVE EXTENDING FROM TOP HAND RAIL AND AT THE SAME TIME PLACE MIDDLE RAIL POST BRACKET INSIDE THE POST. TIGHTEN ALL SCREWS SECURELY. #13143 PH. PAN HD SHEET METAL SCREW #10-24 X 1/2" #15401T SLEEVE (4 PER SLEEVE) 10" LONG MIDDLE HAND. **FULL SCALE** RAIL #13127 #8-32 X 7/16 PH. PAN #13143 SCREW HEAD THRD ROLLING SCREW (2 PER ASSEMBLY) FULL SCALE #13127 SCREW #17431LA/17431RA RAILING POST POST EXTENSION NOT SHOWN FOR CLARITY MIDDLE HAND RAIL TOP END-SEE STEP 26 FOR TOP AND BOTTOM RAIL DIMENSIONS



(3)

INTERMEDIATE AND END RAIL ASSEMBLY

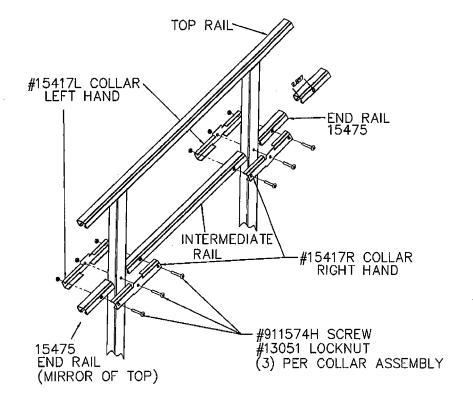
3a) FOR SO4 THROUGH SO6 STAIRWAYS

NOTE

RISER NOT SHOWN FOR CLARITY.
INSERT ALL BOLTS WITH THE HEAD
TOWARD THE INSIDE OF THE STAIRWAY.
DO NOT TIGHTEN FASTENERS UNTIL
ALL BOTTOM AND END RAILS HAVE
BEEN INSTALLED.

NOTE

SEE CHARTS ON PAGE 18-20 FOR TOP AND BOTTOM RAILING LENGTHS AND SEQUENCE OF ASSEMBLY



#911574H TRUSS HD MACH SCREW
5/16" - 18 X 2 1/2"
#13051 LOCKNUT
5/16" - 18

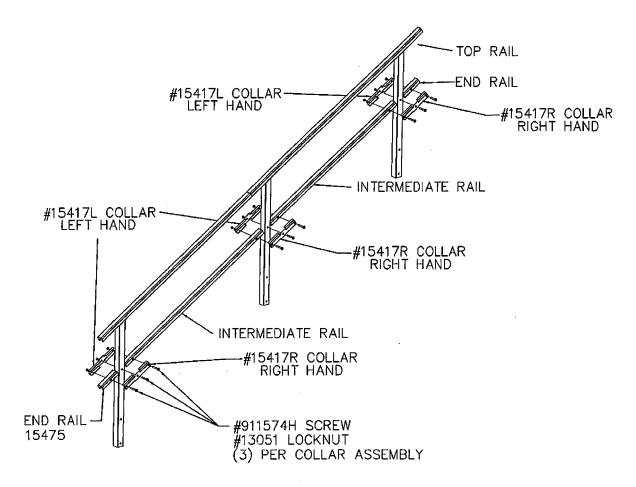
(3 PER PAIR OF COLLARS)



INTERMEDIATE AND END RAIL ASSEMBLY

3b) FOR SO7 THROUGH S11 STAIRWAYS

S12 THRU S16 STAIRWAYS WILL HAVE (4) POST LOCATIONS



NOTE

RISER AND POST EXTENSIONS NOT SHOWN FOR CLARITY. INSERT ALL BOLTS WITH THE HEAD TOWARD THE INSIDE OF THE STAIRWAY. DO NOT TIGHTEN FASTENERS UNTIL ALL BOTTOM AND END RAILS HAVE BEEN INSTALLED.

#911574H TRUSS HD MACH SCREW 5/16" - 18 X 2 1/2" #13051 LOCKNUT 5/16" - 18

(3 PER PAIR OF COLLARS)

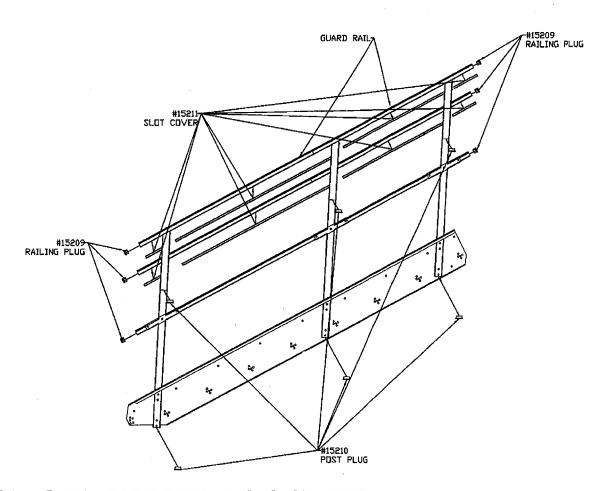




GUARD RAIL, RAILING PLUG, POST PLUG AND SLOT COVER ASSEMBLY

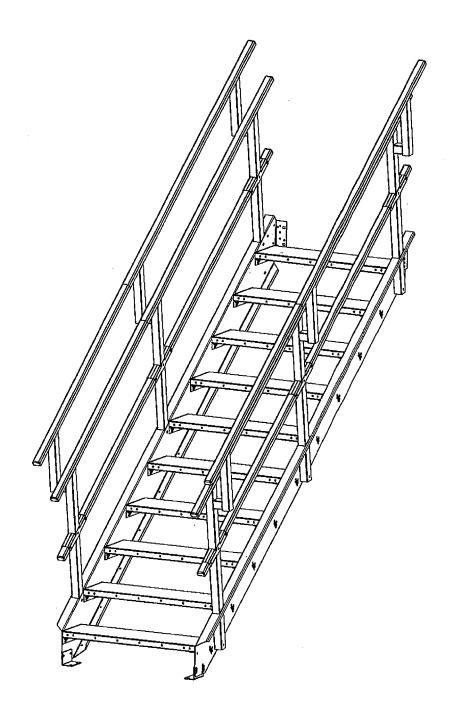
1) GUARD RAIL ASSEMBLY

INSTALL THE GUARD RAIL TO THE POST EXTENSIONS IN THE SAME MANNER AS THE HANDRAIL ASSEMBLY FOR THE RESPECTIVE STAIRWAY (PAGES 8 THRU 13)



2) RAIL PLUG, POST PLUG AND SLOT COVER ASSEMBLY

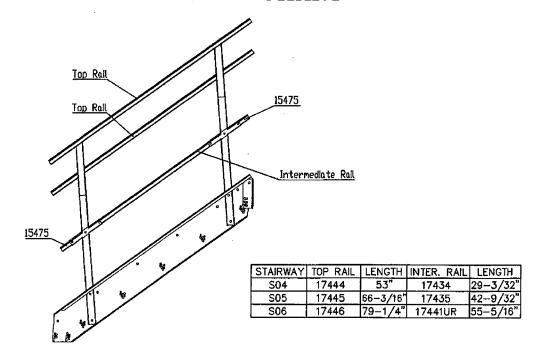
INSTALL RAILING PLUGS AT THE TOP AND BOTTOM OF THE GUARD RAIL, HAND RAIL AND MIDRAIL EXTENSIONS.
INSTALL POST PLUGS IN BOTTOM OF POST EXTENSIONS AND IN VISIBLE BOTTOM ENDS OF THE RAILING POSTS.
FIELD CUT SLOT COVER AND INSTALL IN THE TOP HAND RAIL AND GUARD RAILS ONLY.



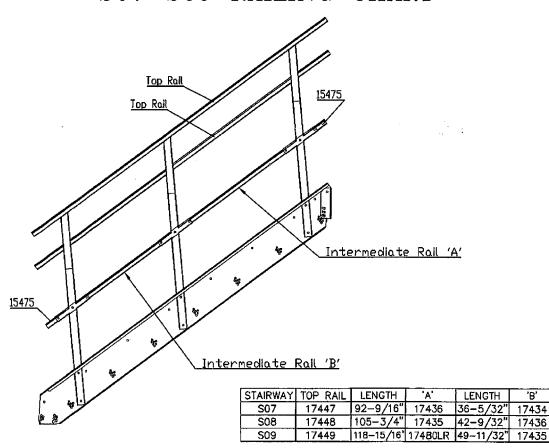
29-3/32

36-5/32

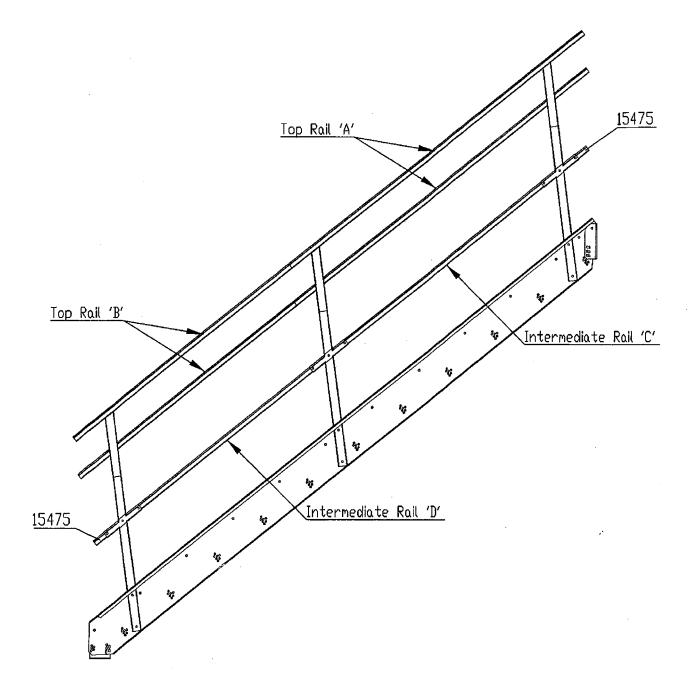
S04-S06 RAILING CHART



S07-S09 RAILING CHART

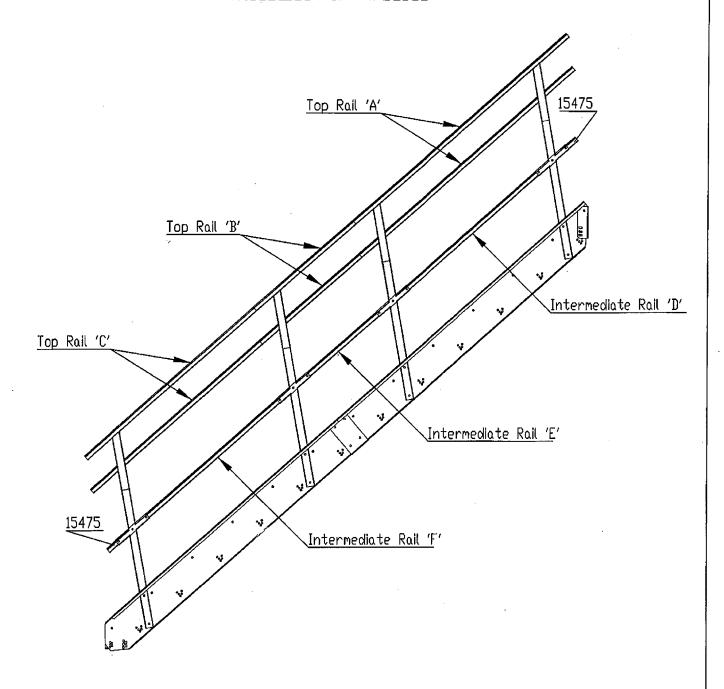


S10-S11 RAILING CHART



Stairy	vay 'A'	Length	'B'	Length	'C'	Length	'D'	Length
\$10	17451UR	76-19/32 *	17451LR	55-7/16 "	17441UR	55-5/16 ′	17480LR	49-11/32"
<u>S11</u>	17453UR	83-1/2*	17452LR	61-13/32*	17437UR	62-17/32*	17441UR	55-5/16*

S12-S16 RAILING CHART



Stairway 'A'	Length	′B′	Length	'C'	Length	'D'	Length	<u>Έ'</u>	Length	['F'	Length
S12 17452UR	70-5/16*	17483MR	32-31/64*	17451LR	55-7/16 *	17480LR	49-11/32	17434	29-3/32*	17480LR	49-11/32'
S14 17451UR	76-19/32*	17484MR	52-3/4*	17451LR	55-7/16*	17441UR	55-5/16'	17480LR	49-11/32"	17480LR	49-11/32*
S16 17453UR	83-1/2"	17485MR	58-3/4"	17485LR	68-5/8*	17437UR	62-17/32*	17441UR	55-5/16*	17437UR	62-17/32"