

215ASY

EQUIPTO

IBC – SERIES STAIRWAY ASSEMBLY INSTRUCTIONS

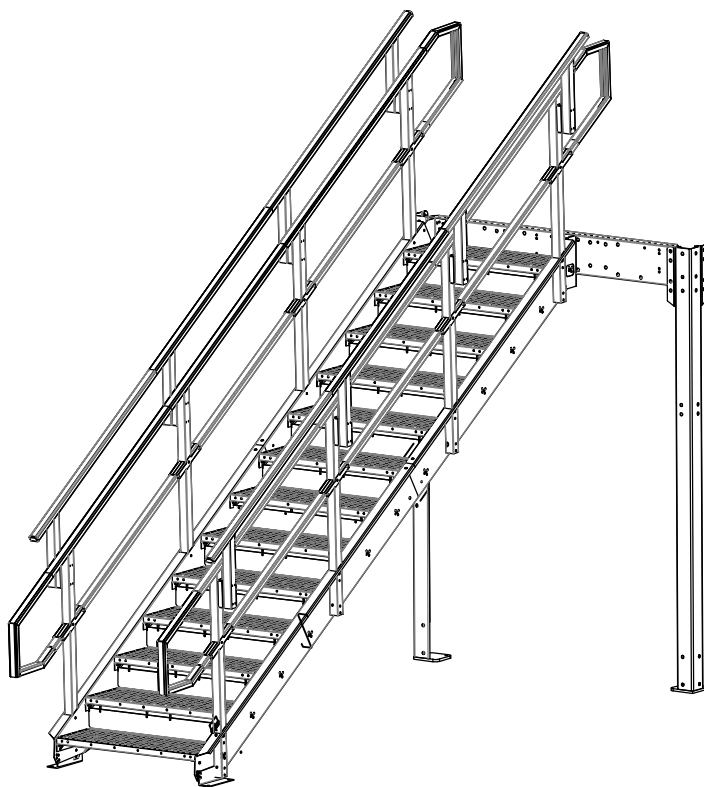


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STAIR RAILING CHART

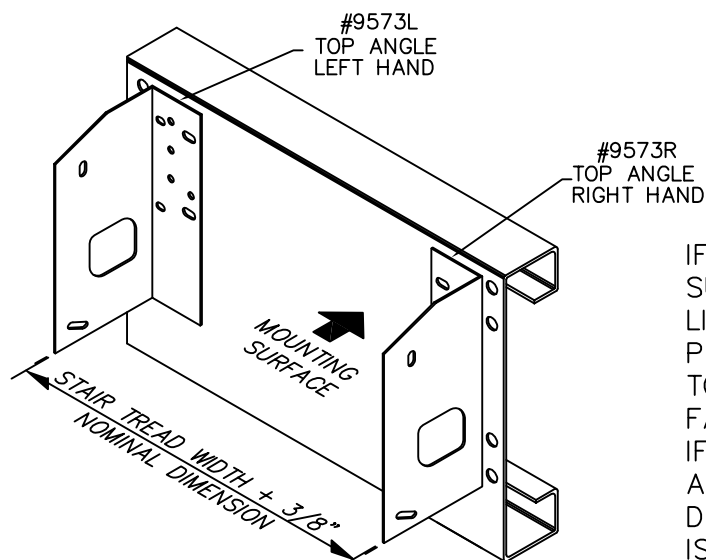
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STAIRWAY ASSEMBLY

1

TOP ANGLE ASSEMBLY

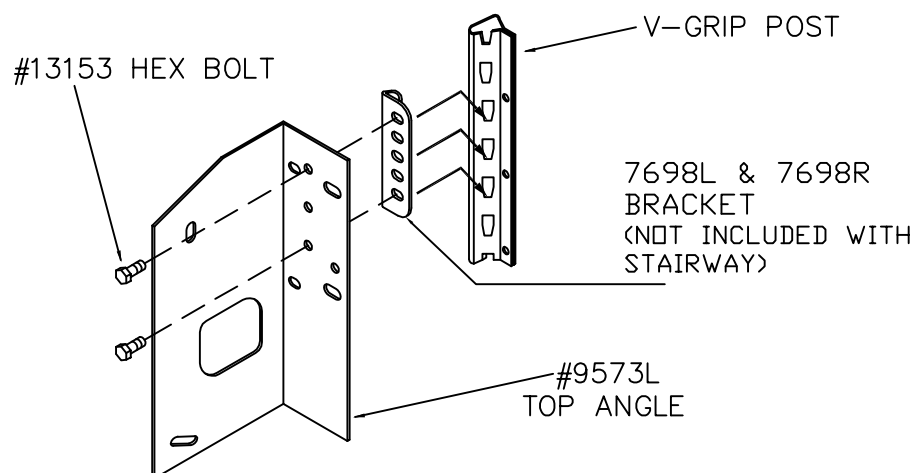
1a) MOUNTING TOP ANGLE TO BUILDING STRUCTURE



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 TWO (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

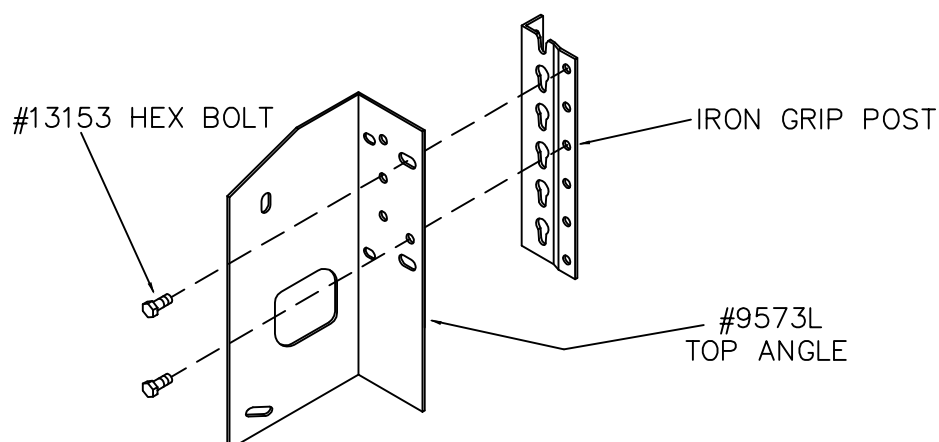


#13153 HEX BOLT 5/16-18 x 3/4"
 #13051 LOCK NUT 5/16-18
 #13182 SPRING LOCKWASHER 3/8"
 (2 PER ANGLE)



FULL SCALE

1c) MOUNTING TOP ANGLE TO IRON GRIP UPRIGHT

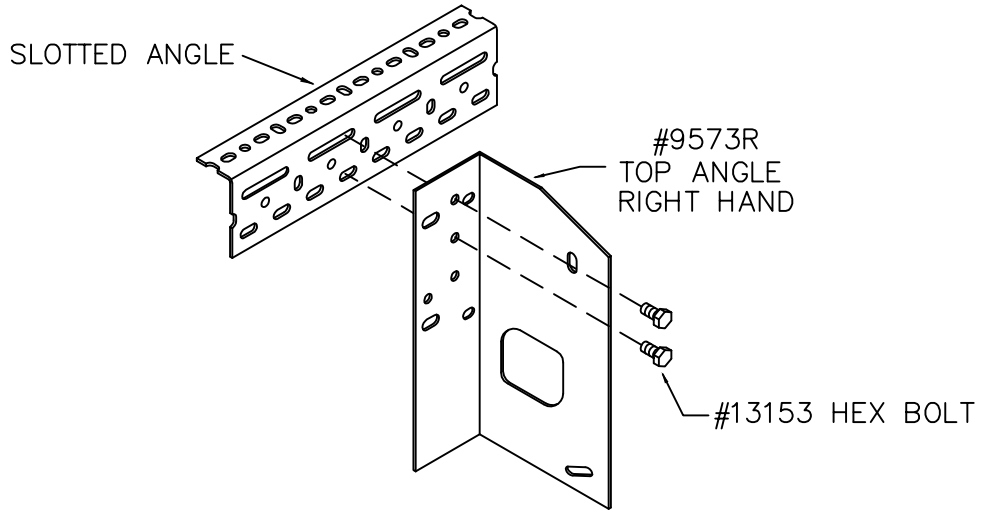


#13153 HEX BOLT 5/16-18 x 3/4"
 #13051 LOCK NUT 5/16-18
 #13182 SPRING LOCKWASHER 3/8"
 (2 PER ANGLE)



FULL SCALE

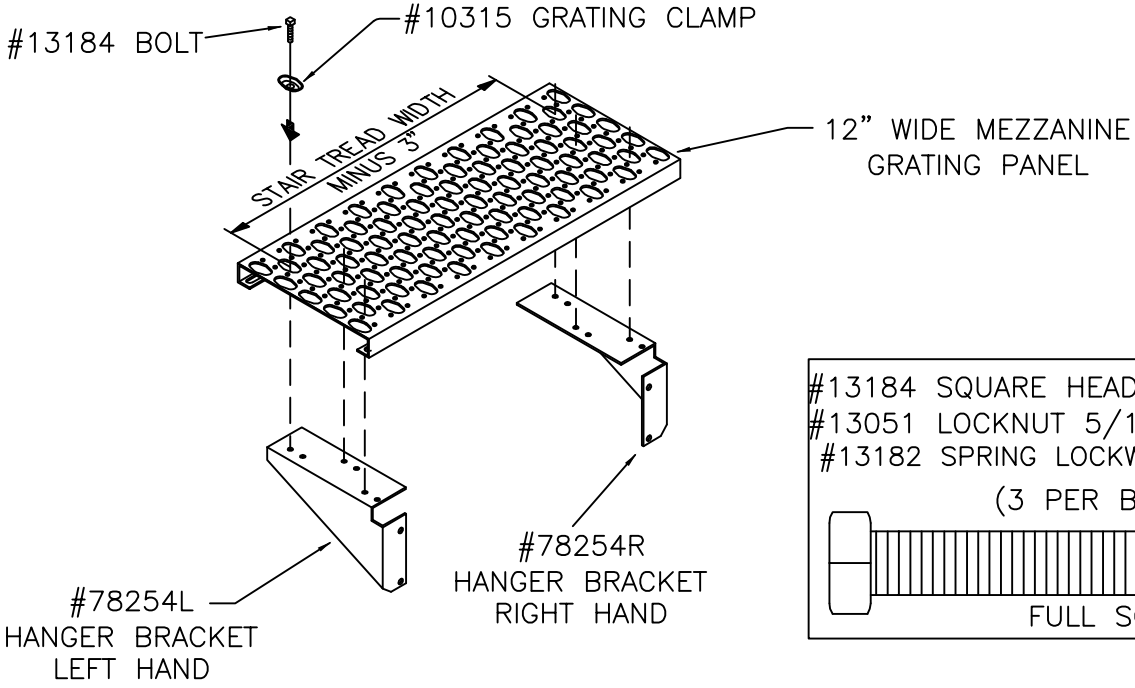
1d) MOUNTING TOP ANGLE TO SLOTTED ANGLE



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

FULL SCALE

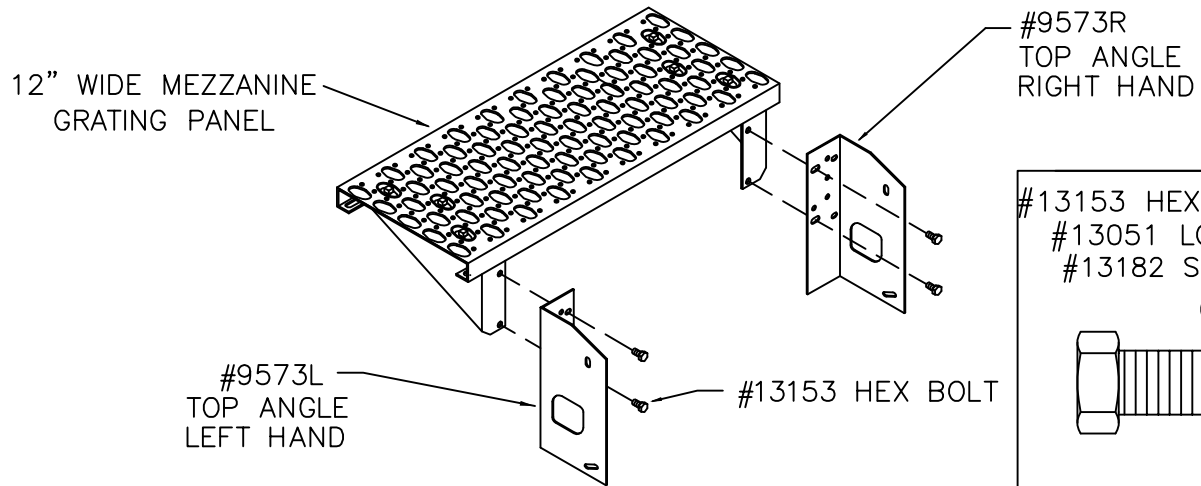
1e) MOUNTING TOP ANGLE TO GRATING ASSEMBLE HANGER BRACKET TO GRATING PANEL (HARDWARE AND HANGER BRACKETS NOT INCLUDED WITH STAIRWAY)



#13184 SQUARE HEAD BOLT 5/16"-18 x 2"
 #13051 LOCKNUT 5/16"-18
 #13182 SPRING LOCKWASHER 3/8"
 (3 PER BRACKET)

FULL SCALE

ASSEMBLE TOP ANGLE TO HANGER BRACKET

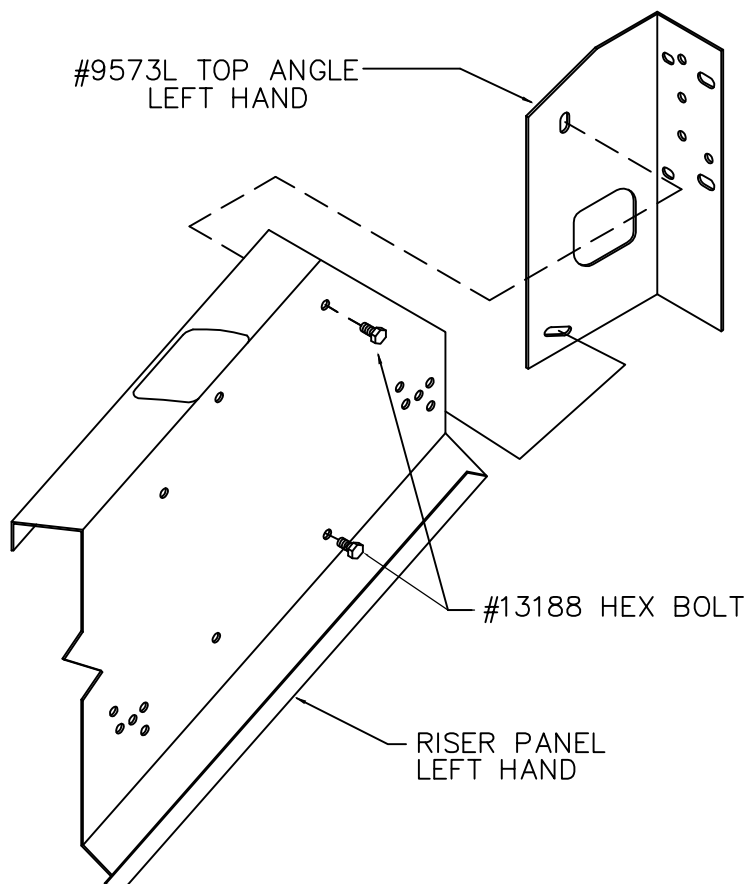


#13153 HEX BOLT 5/16-18 x 3/4"
 #13051 LOCK NUT 5/16-18
 #13182 SPRING LOCKWASHER 3/8"
 (2 PER ANGLE)

FULL SCALE

2 RISER PANEL ASSEMBLY

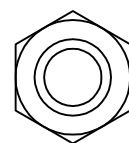
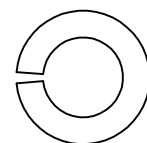
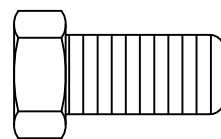
2a) ASSEMBLE RISER PANEL TO TOP ANGLE



NOTE

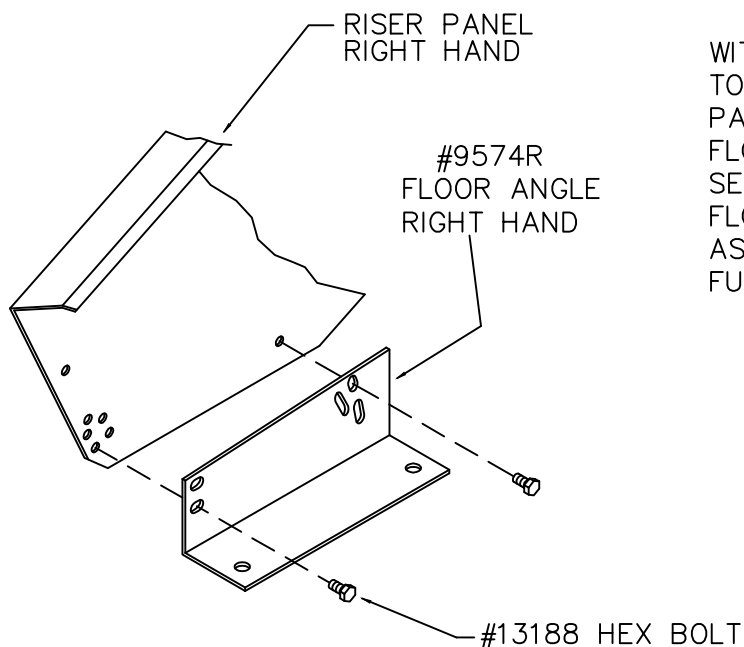
AFTER THE TOP ANGLES ARE IN PLACE, LIFT TOP END OF THE RISER PANEL INTO POSITION WITH THE VERTICAL SURFACE OF THE RISER PANEL TO THE INSIDE OF THE TOP ANGLE AND THE SLOTTED TOP FLANGE TO THE OUTSIDE. REPEAT THIS PROCEDURE WITH THE OPPOSITE RISER PANEL. DURING THIS ASSEMBLY THE BOTTOM ENDS OF THE RISERS 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)



FULL SCALE

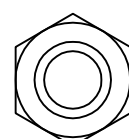
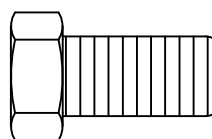
2b) MOUNTING RISER PANEL TO FLOOR ANGLE



NOTE

WITH THE RISER PANEL FASTENED TO THE TOP ANGLE, RAISE LOWER END OF THE RISER PANEL FROM THE FLOOR AND FASTEN THE FLOOR ANGLE IN PLACE. TIGHTEN BOLTS SECURELY. 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)

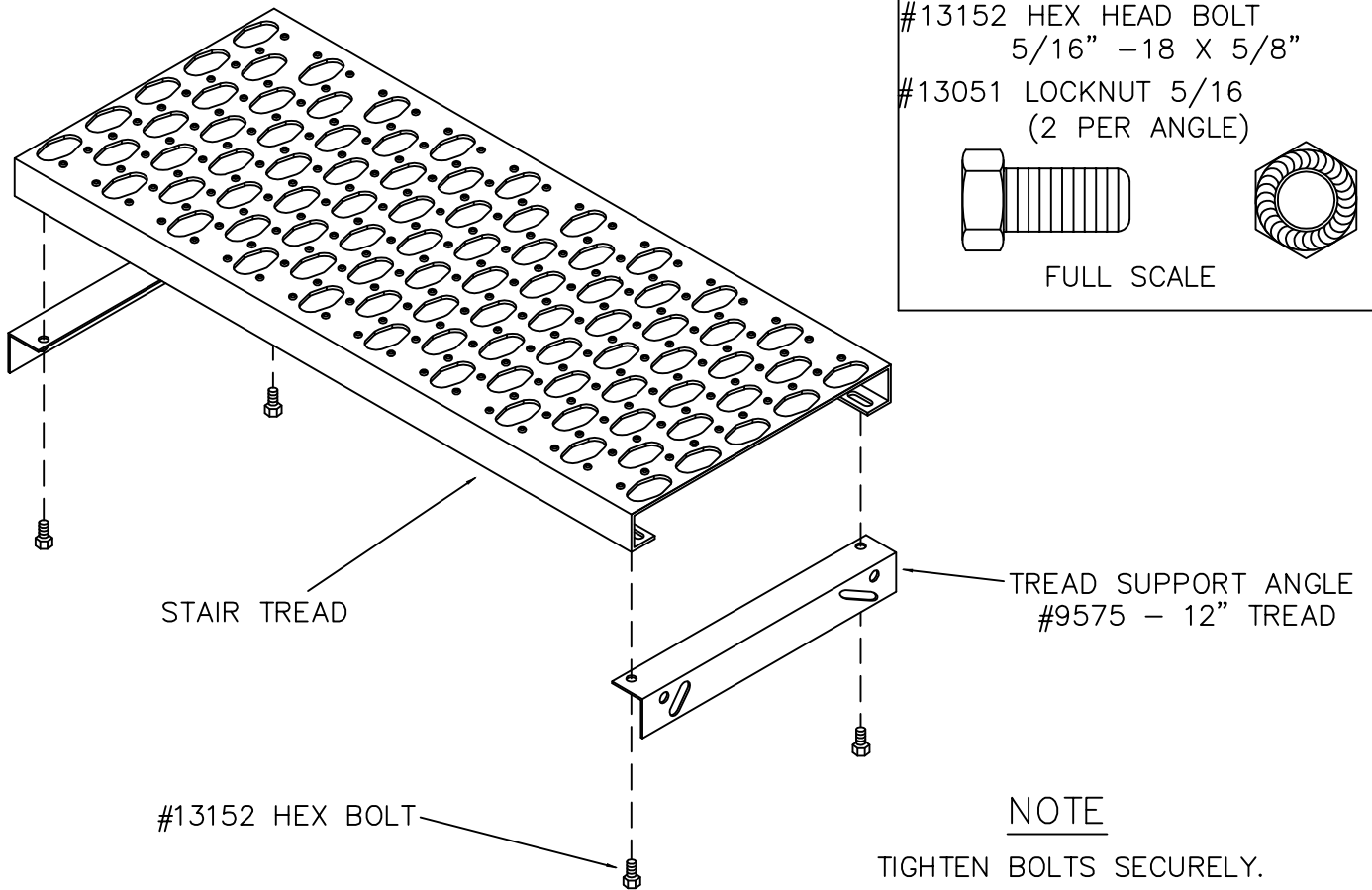


FULL SCALE

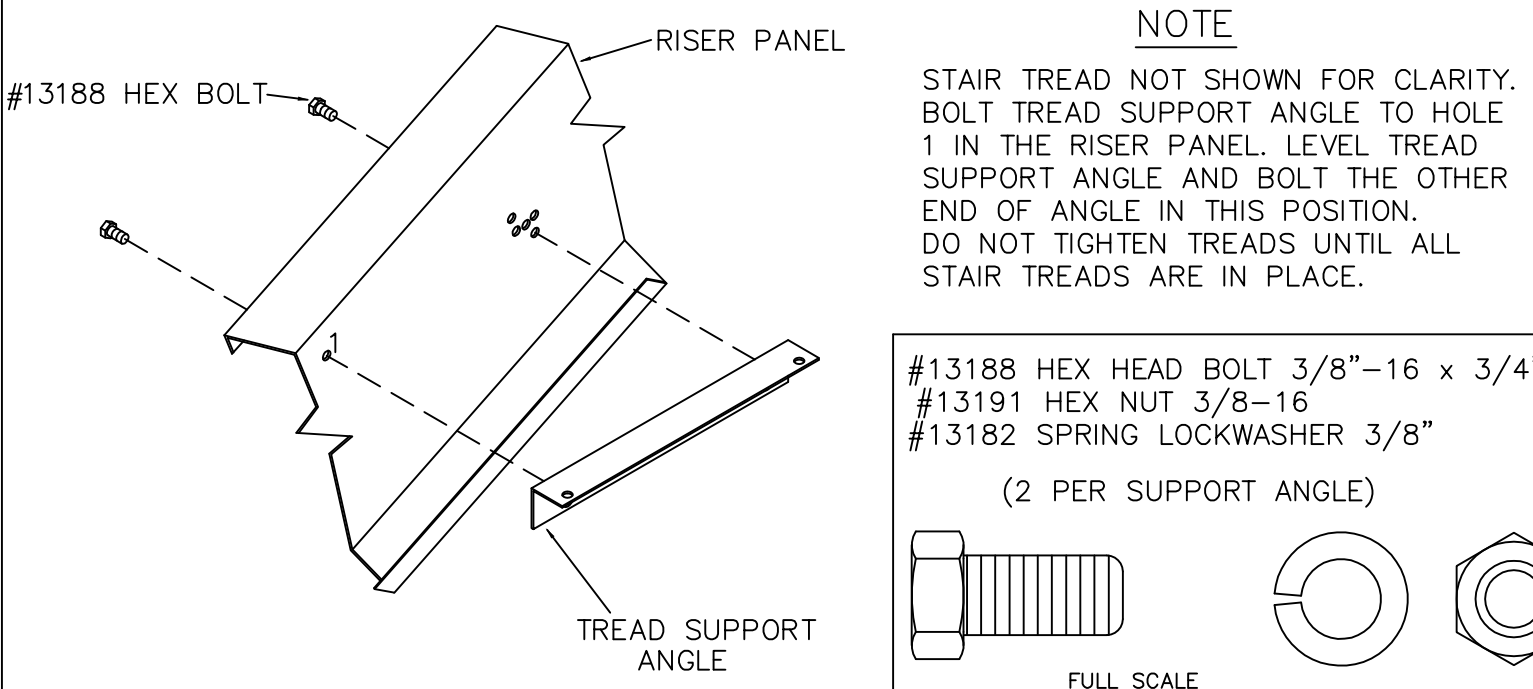
3

STAIR TREAD ASSEMBLY

3a) STAIR TREAD AND SUPPORT ANGLE ASSEMBLY



3b) FASTENING STAIR TREAD ASSEMBLY TO RISER



4 SWAY BRACE ASSEMBLY

FOR IBC9-11 STAIRWAYS

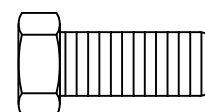
BRACE

#6444 - 36" WIDE STAIRWAY
#6479 - 48" WIDE STAIRWAY
(NOT REQUIRED FOR IBC5-8 STAIRWAYS)

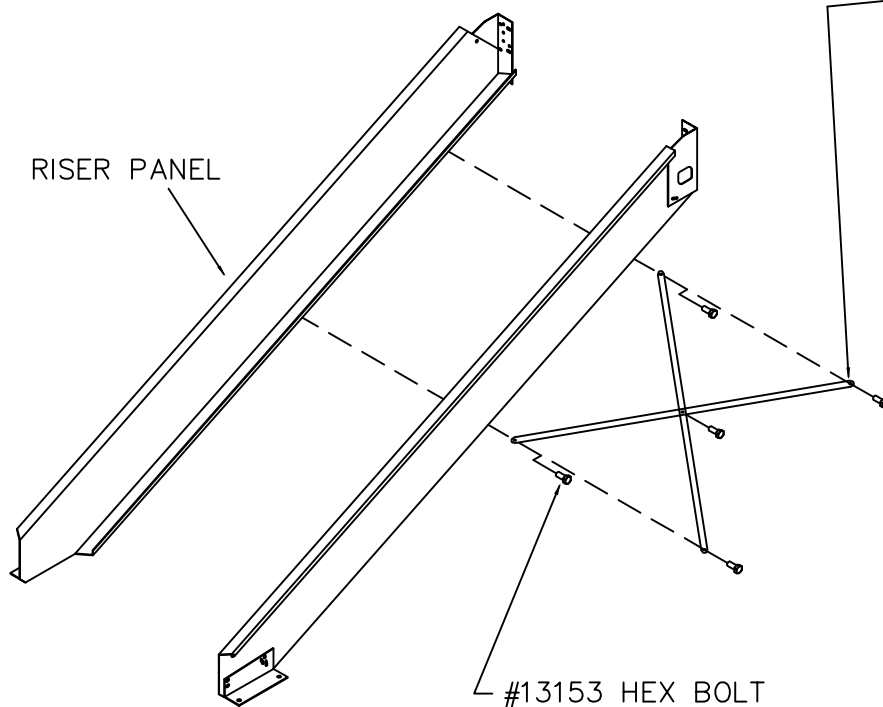
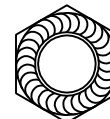
NOTE

BOLT ONE PAIR OF BRACES IN THE SECOND AND FOURTH HOLE FROM THE TOP.
TIGHTEN BOLTS SECURELY.

#13153 HEX BOLT 5/16"-18 x 3/4"
#13051 LOCK NUT 5/16-18
(5 PER PAIR OF BRACES)



FULL SCALE



FOR IBC13 THROUGH IBC20 STAIRWAYS

NOTE

BOLT ONE PAIR OF BRACES IN THE SECOND AND FOURTH HOLE FROM THE TOP AND A SECOND PAIR OF BRACES IN THE SECOND AND FOURTH HOLES FROM THE BOTTOM. TIGHTEN BOLTS SECURELY.

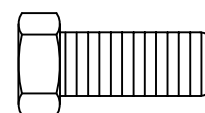
RISER PANELS
(NOTE: REFER TO 061ASY INSTRUCTIONS FOR (2) PIECE CONSTRUCTION)

BRACE

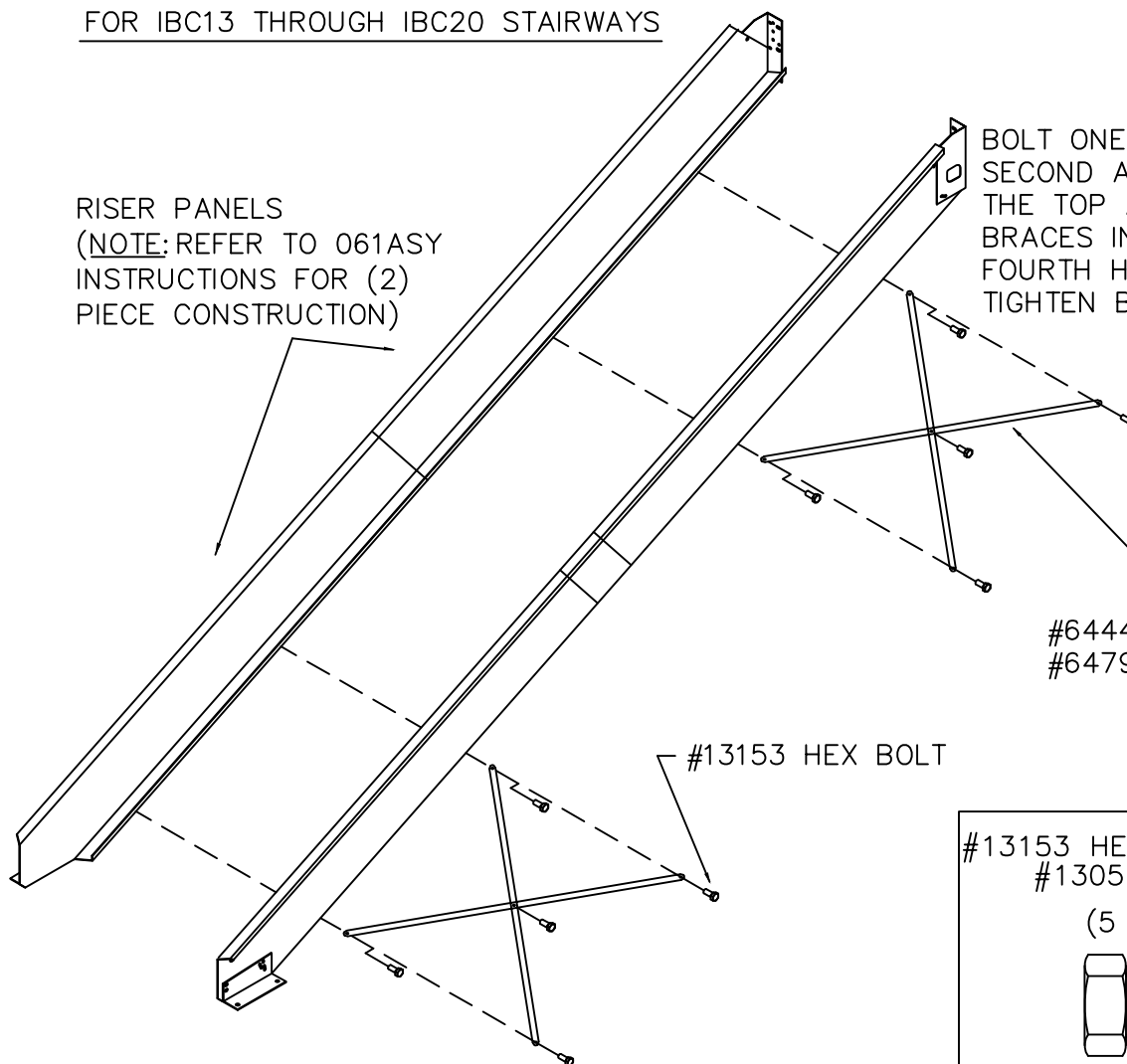
#6444 - 36" WIDE STAIRWAY
#6479 - 48" WIDE STAIRWAY

#13153 HEX BOLT

#13153 HEX BOLT 5/16-18 x 3/4"
#13051 LOCK NUT 5/16-18
(5 PER PAIR OF BRACES)



FULL SCALE



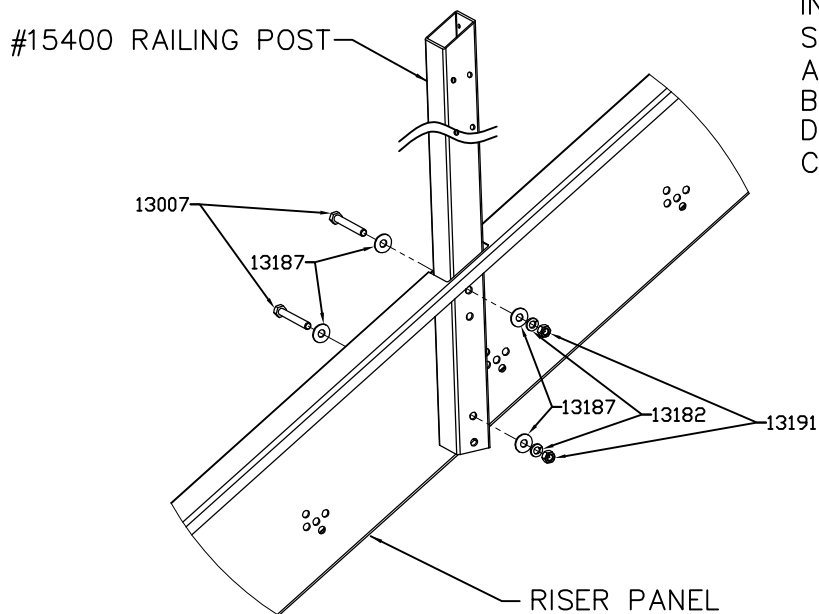
STAIR RAILING ASSEMBLY

1

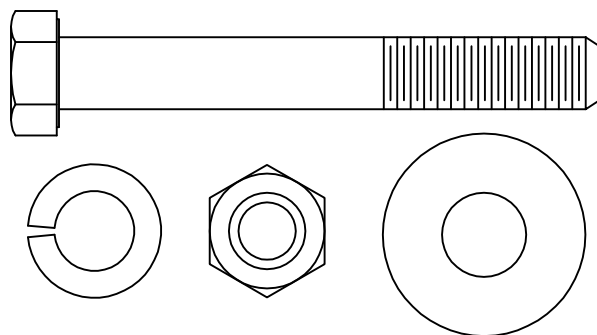
RAILING POST ASSEMBLY

NOTE

INSERT POST THRU SLOT IN RISER PANEL SO THAT THE HOLES IN THE TOP OF THE POST ARE FACING TOWARD THE TOP OF THE STAIRWAY. BOLT POSTS TO RISERS 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)

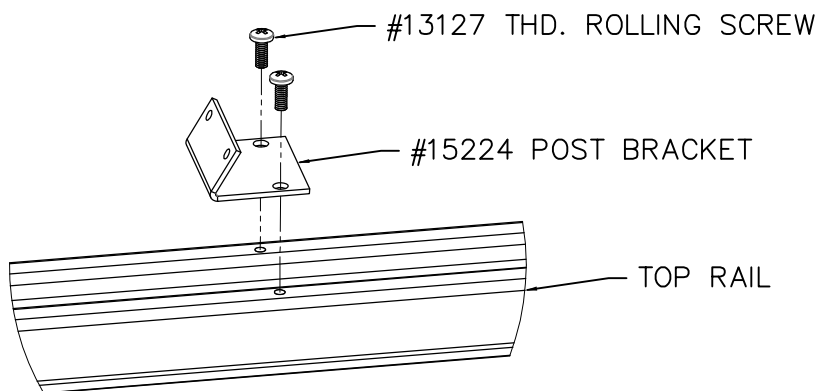


FULL SCALE

2

TOP HAND RAIL ASSEMBLY

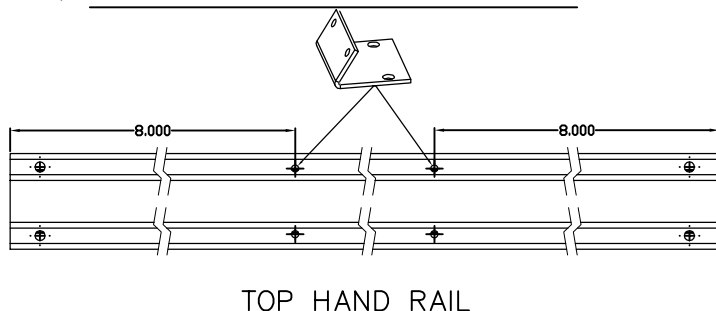
ASSEMBLE POST BRACKET TO TOP HAND RAILS



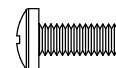
NOTE

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

2a) FOR IBC5 THRU IBC7 STAIRWAYS

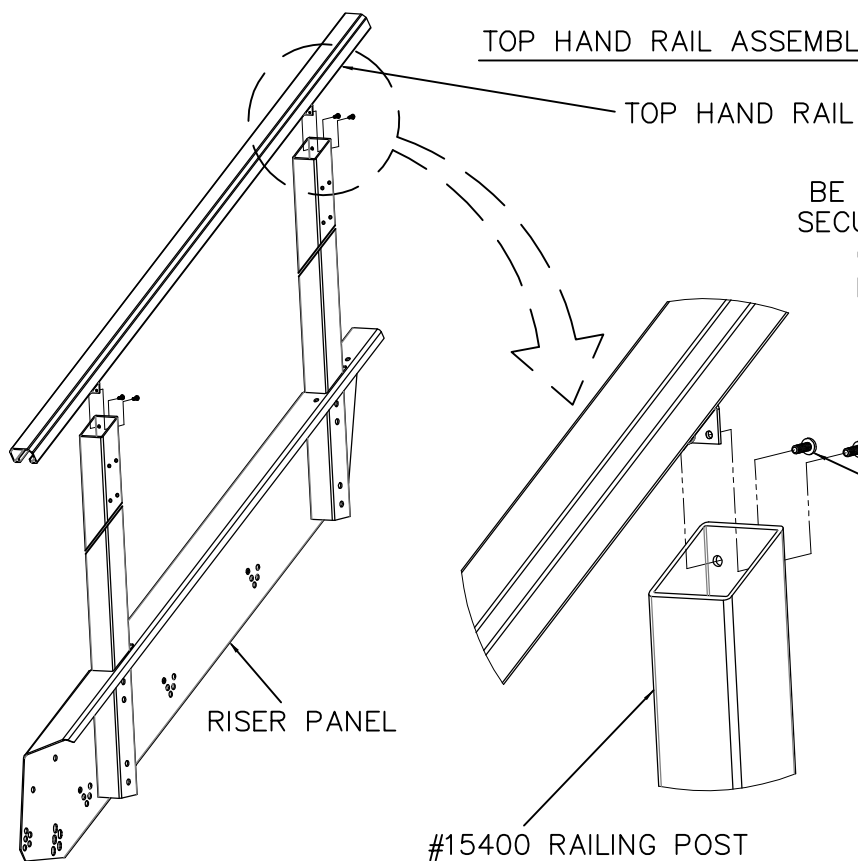


#13127 #8-32 X 7/16 PH. PAN HEAD THRD ROLLING SCREW (2 PER ASSEMBLY)



FULL SCALE

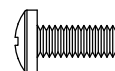
TOP HAND RAIL ASSEMBLY TO VERTICAL POSTS



NOTE

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

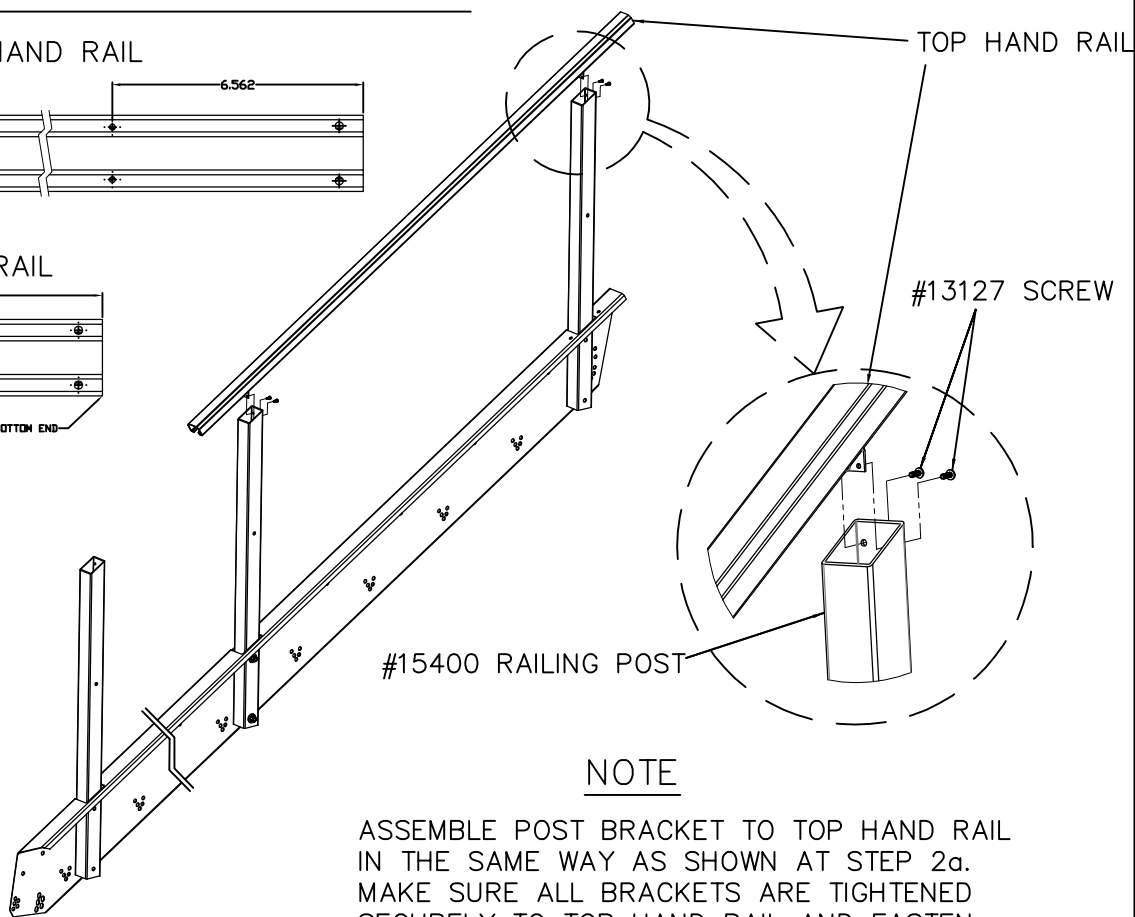
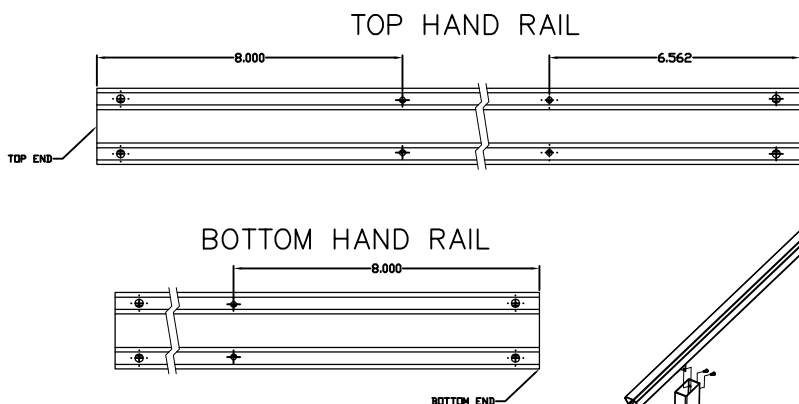
#13127 #8-32 X 7/16 PH. PAN HEAD THRD ROLLING SCREW
(2 PER ASSEMBLY)



FULL SCALE

2b) FOR IBC8 THROUGH IBC11 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.

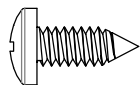
SLEEVE ASSEMBLY INTO TOP HAND RAIL

NOTE

INSERT SLEEVE INTO BOTTOM END OF TOP HAND RAIL AS SHOWN. ALIGN THE UPPER SET OF HOLES IN THE SLEEVE WITH THE HOLES IN THE HAND RAIL. FASTEN IN PLACE AND TIGHTEN SECURELY.

#15401T SLEEVE
10" LONG

#13143 PH. PAN HD
SHEET METAL SCREW
#10-24 X 1/2"
(4 PER SLEEVE)



FULL SCALE

#13143 SCREW

#13143 SCREW

BOTTOM HAND RAIL ASSEMBLY TO VERTICAL POST

NOTE

ASSEMBLE POST BRACKET TO BOTTOM HAND RAIL. TIGHTEN THE BRACKET SECURELY. TELESCOPE THE END OF THE BOTTOM RAIL OVER THE SLEEVE EXTENDING FROM TOP HAND RAIL AND AT THE SAME TIME PLACE BOTTOM HAND RAIL POST BRACKET INSIDE POST. TIGHTEN ALL SCREWS SECURELY.

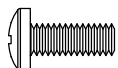
TOP HAND RAIL

BOTTOM HAND RAIL

#13143 SCREW

#13127 SCREW

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



FULL SCALE

#15400 RAILING POST

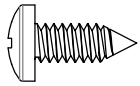
2c) FOR IBC13 THROUGH IBC20 STAIRWAYS

HAND RAIL ASSEMBLY TO VERTICAL POST

NOTE

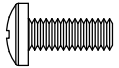
ASSEMBLE POST BRACKETS TO TOP HAND RAIL AND ASSEMBLE TOP HAND RAIL TO POSTS AS SHOWN AT STEP 2b. ASSEMBLE SLEEVE INTO BOTTOM END OF TOP HAND RAIL AS SHOWN AT STEP 2b. ASSEMBLE POST BRACKET TO MIDDLE RAIL AS SHOWN AT STEP 2b. TELESCOPE THE END OF THE MIDDLE RAIL OVER THE SLEEVE EXTENDING FROM TOP HAND 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"
(4 PER SLEEVE)



FULL SCALE

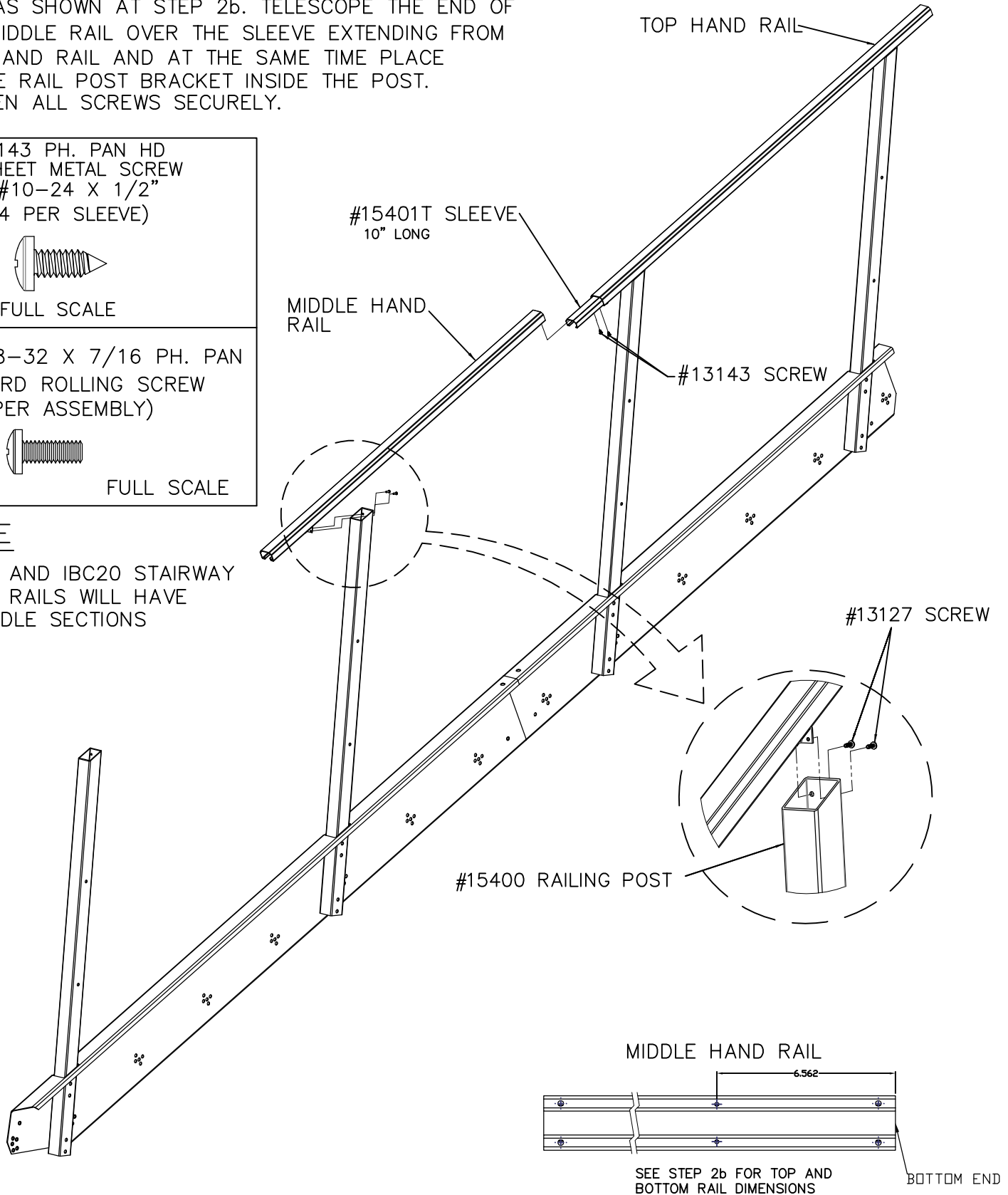
#13127 #8-32 X 7/16 PH. PAN
HEAD THRD ROLLING SCREW
(2 PER ASSEMBLY)



FULL SCALE

NOTE

IBC17 AND IBC20 STAIRWAY
HAND RAILS WILL HAVE
2 MIDDLE SECTIONS



MIDDLE HAND RAIL

6.562

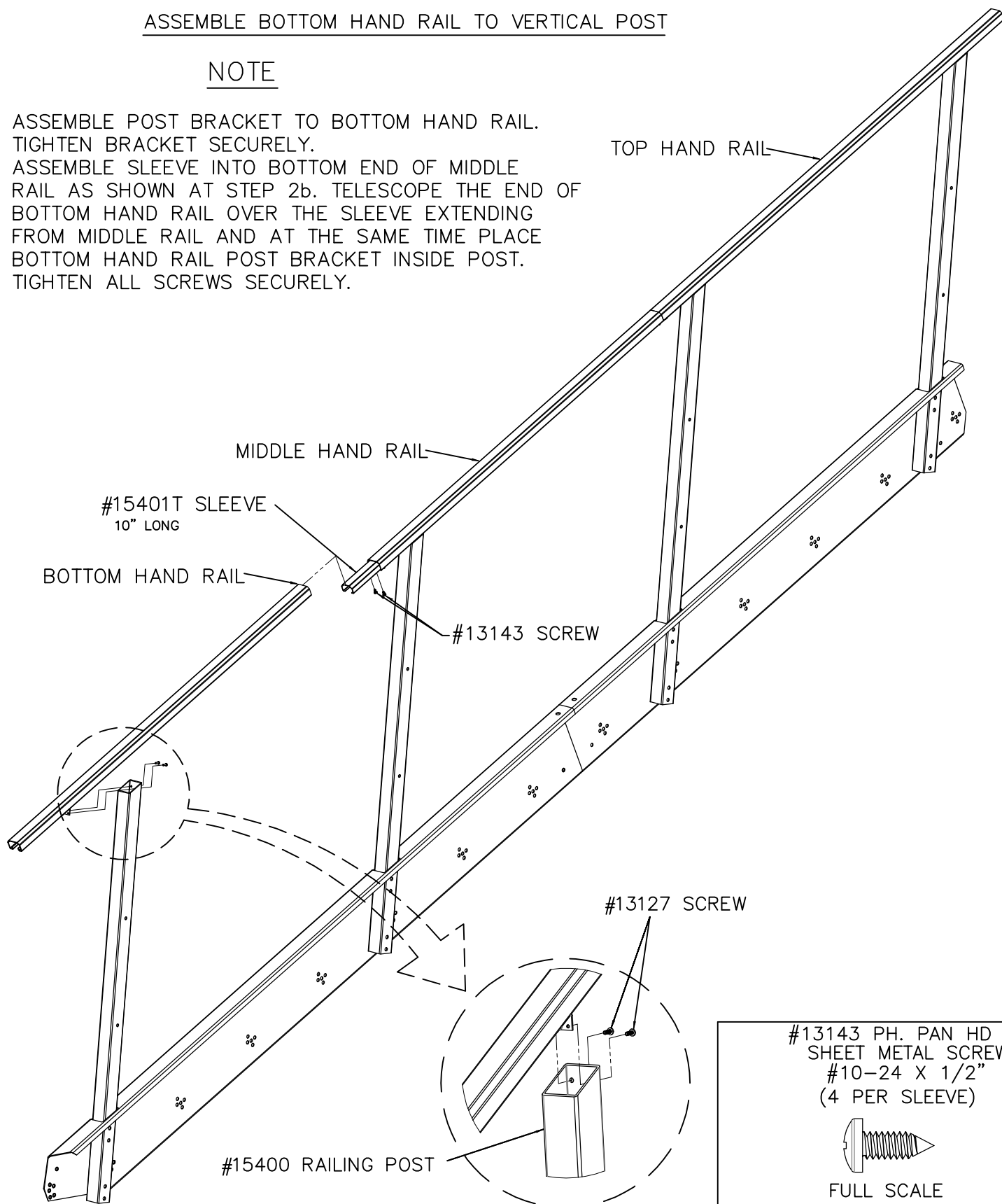
SEE STEP 2b FOR TOP AND
BOTTOM RAIL DIMENSIONS

BOTTOM END

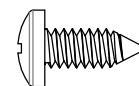
ASSEMBLE BOTTOM HAND RAIL TO VERTICAL POST

NOTE

ASSEMBLE POST BRACKET TO BOTTOM HAND RAIL. TIGHTEN BRACKET SECURELY. ASSEMBLE SLEEVE INTO BOTTOM END OF MIDDLE RAIL AS SHOWN AT STEP 2b. TELESCOPE THE END OF BOTTOM HAND RAIL OVER THE SLEEVE EXTENDING FROM MIDDLE RAIL AND AT THE SAME TIME PLACE BOTTOM HAND RAIL POST BRACKET INSIDE POST. TIGHTEN ALL SCREWS SECURELY.

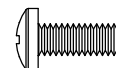


#13143 PH. PAN HD
SHEET METAL SCREW
#10-24 X 1/2"
(4 PER SLEEVE)



FULL SCALE

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



FULL SCALE

3

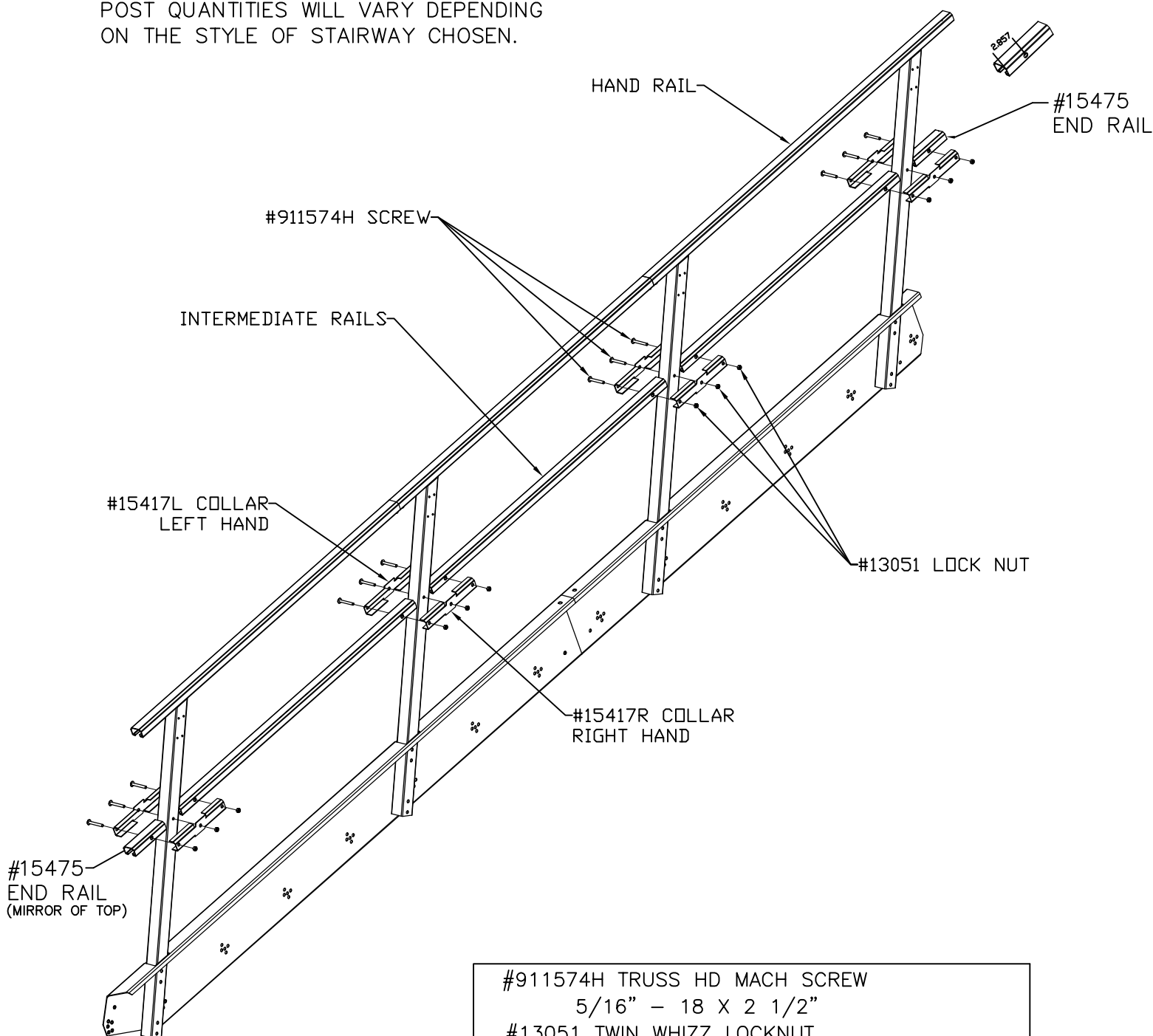
INTERMDIATE AND END RAIL ASSEMBLY

NOTE

INSERT ALL BOLTS WITH THE HEAD
TOWARD INSIDE STAIRWAY.
TIGHTEN ALL BOLTS SECURELY.
POST QUANTITIES WILL VARY DEPENDING
ON THE STYLE OF STAIRWAY CHOSEN.

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"

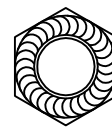
#13051 TWIN WHIZZ LOCKNUT

5/16" - 18

(3 PER PAIR OF COLLARS)



FULL SCALE



4 END EXTENSION ASSEMBLY

INSERT THE SLEEVES INTO THE RAIL ENDS AND SECURE WITH 13143 PAN HEAD SCREWS. SLIDE THE EXTENSIONS ONTO THE SLEEVES AND SECURE WITH 13143 SCREWS.

#15443U UPPER EXTENSION
#15401T SLEEVE
10" LONG
#15401B SLEEVE
6" LONG
#13143 PAN HEAD SCREW

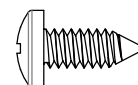
#15401T SLEEVE
10" LONG

#13143 PAN HEAD SCREW

#15401B SLEEVE
6" LONG

#15443L LOWER EXTENSION

#13143 PH. PAN HD
SHEET METAL SCREW
#10-24 X 1/2"
(4 PER SLEEVE)

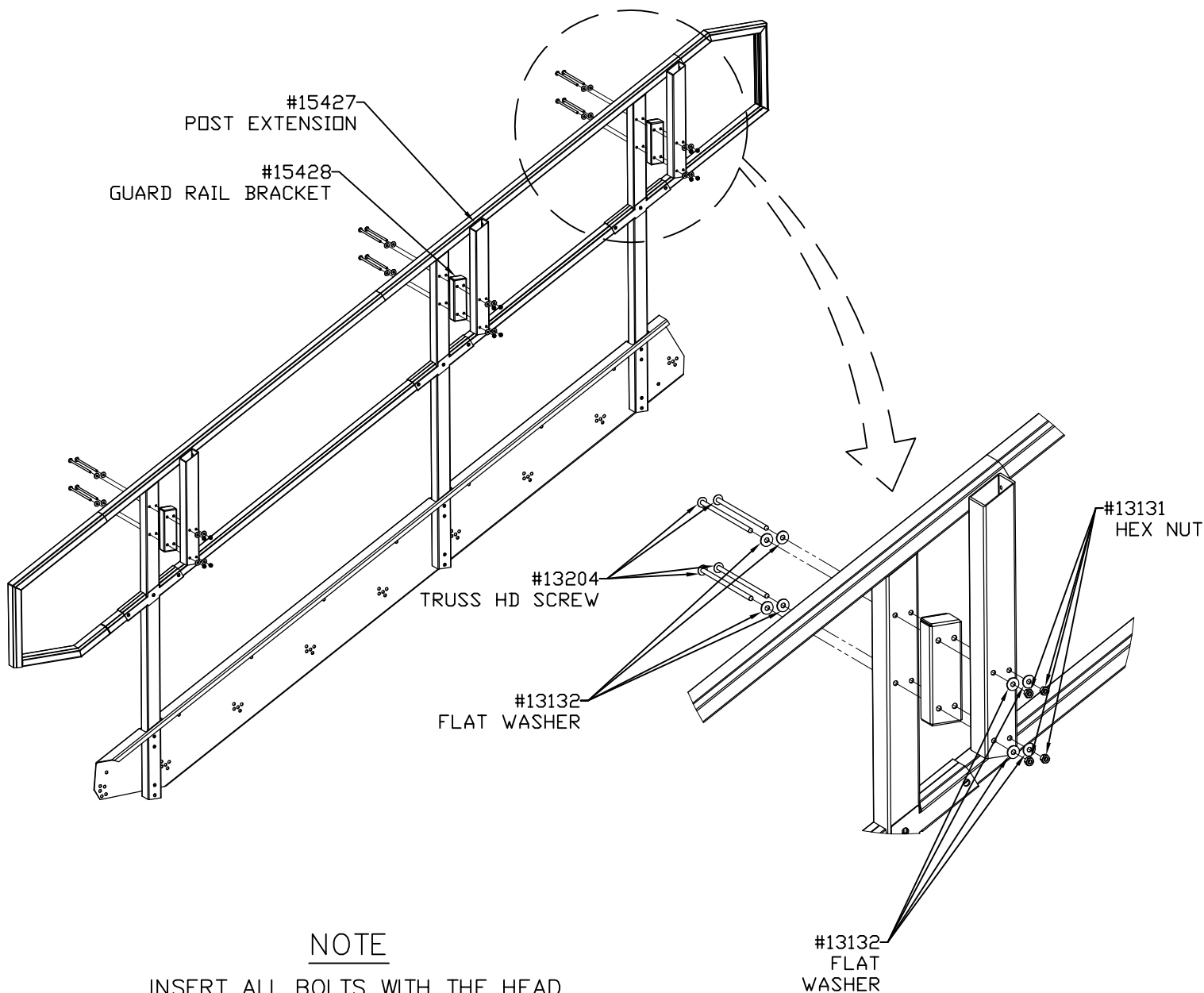


FULL SCALE

5

GUARD RAIL ASSEMBLY

1) ASSEMBLE POST EXTENSIONS TO RAILING POSTS

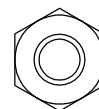
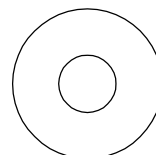


NOTE

INSERT ALL BOLTS WITH THE HEAD
TOWARD INSIDE STAIRWAY.
DO NOT TIGHTEN BOLTS UNTIL COMPLETE
GUARD RAIL IS ASSEMBLED.
POST QUANTITIES WILL VARY DEPENDING
ON THE STYLE OF STAIRWAY PURCHASED.



#13204 PHIL. TRUSS HD MACH. SCREW
1/4-20 X 6" LONG (4 PER EXTENSION)
#13132 1/4" FLAT WASHER (8 PER EXTENSION)
#13131 1/4-20 HEX NUT (4 PER EXTENSION)

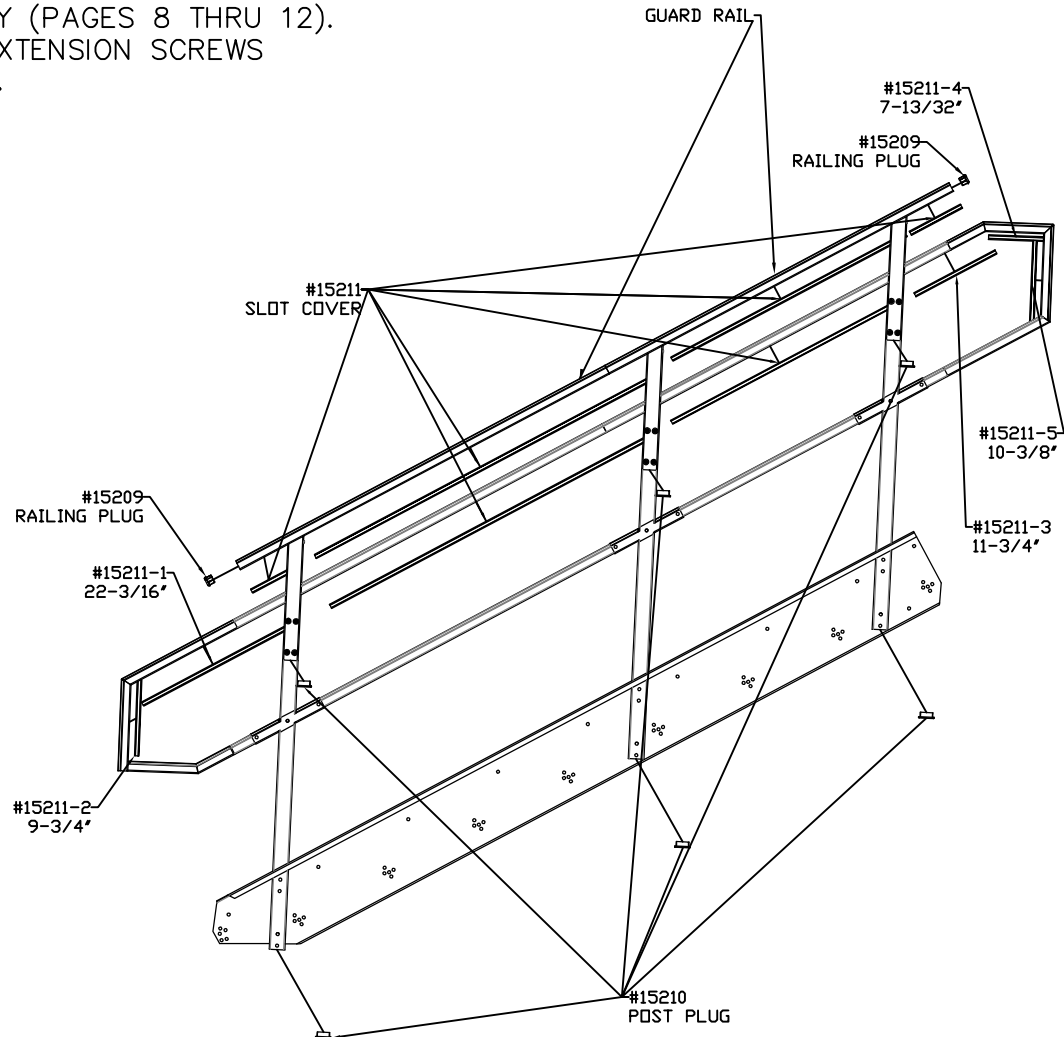


FULL SCALE

2) ASSEMBLE GUARD RAIL TO POST EXTENSIONS

NOTE

INSTALL THE GUARD RAIL IN THE SAME MANNER AS THE TOP RAIL ASSEMBLY FOR THE RESPECTIVE STAIRWAY (PAGES 8 THRU 12).
TIGHTEN THE POST EXTENSION SCREWS INSTALLED IN STEP 1.

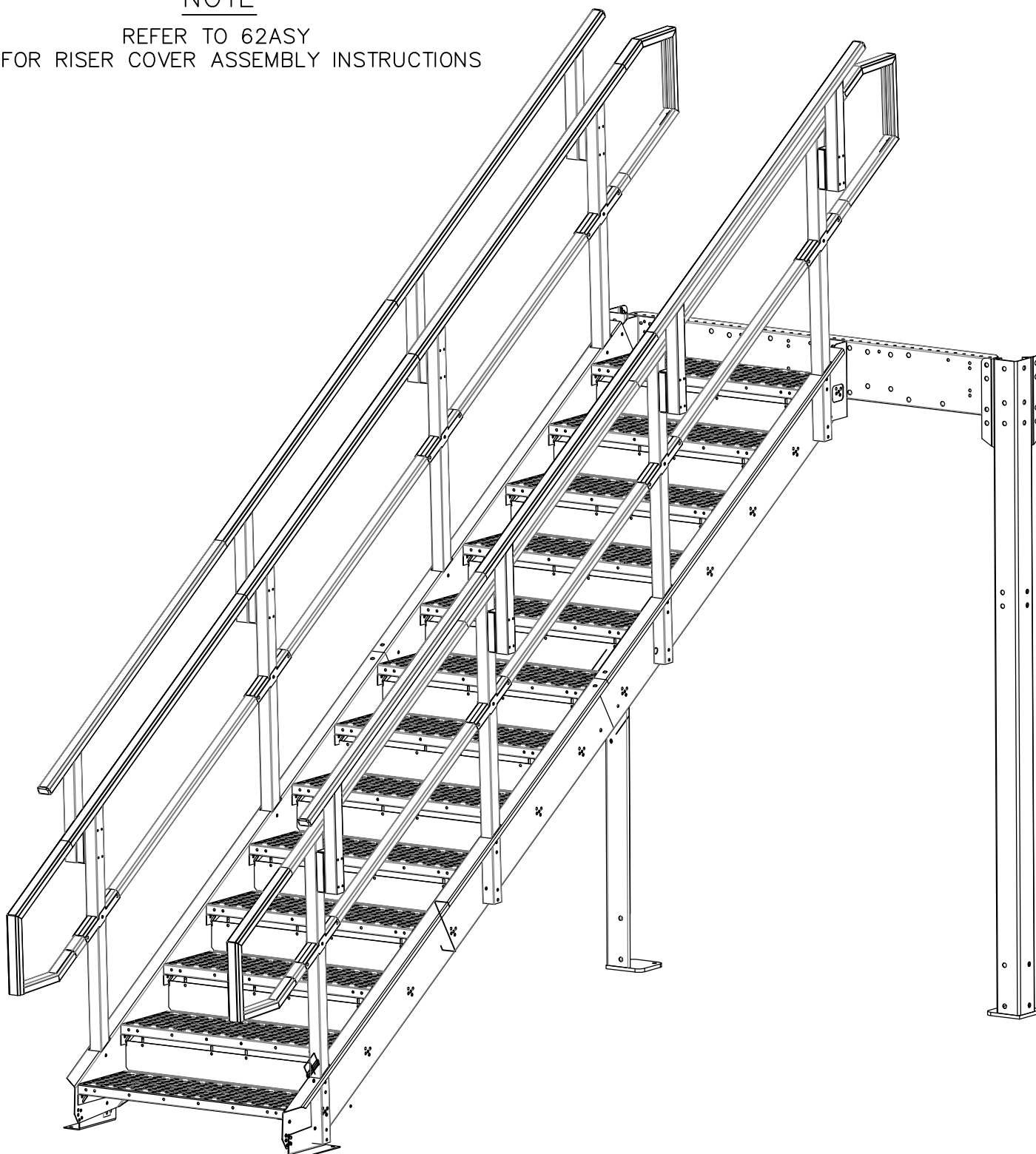


3) RAIL PLUG, POST PLUG AND SLOT COVER ASSEMBLY

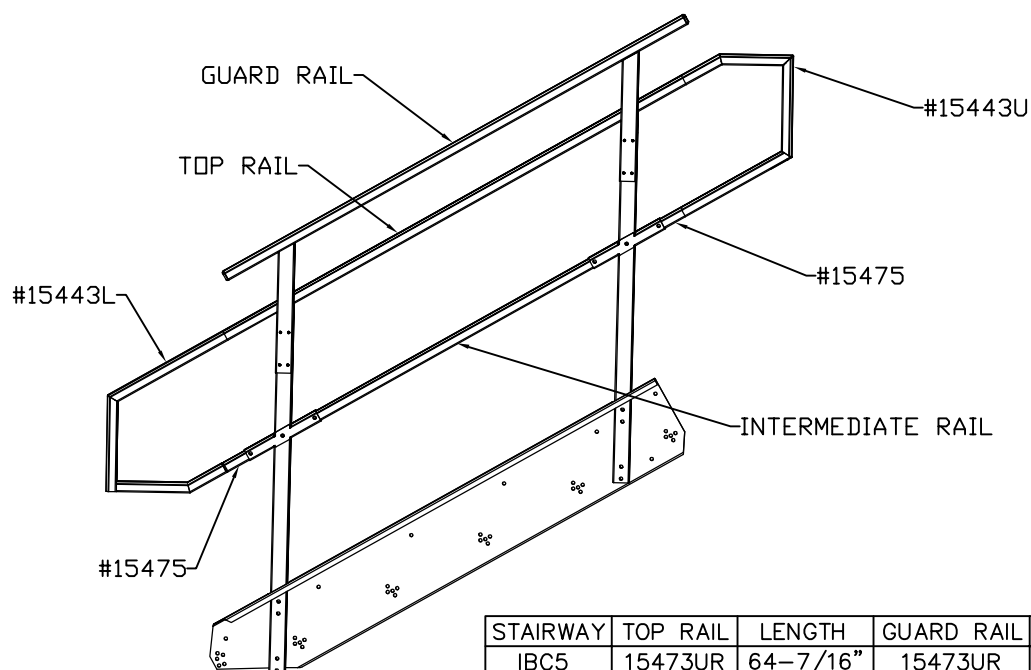
INSTALL RAILING PLUGS AT THE TOP AND BOTTOM OF THE GUARD RAIL.
INSTALL POST PLUGS IN BOTTOM OF POST EXTENSIONS AND IN VISIBLE BOTTOM ENDS OF THE RAILING POSTS.
FIELD CUT SLOT COVER AND INSTALL IN THE TOP HAND RAIL AND GUARD RAILS ONLY. SLOT COVERS FOR THE RAIL EXTENSIONS ARE FACTORY PRE-CUT; INSTALL AS SHOWN.

NOTE

REFER TO 62ASY
FOR RISER COVER ASSEMBLY INSTRUCTIONS

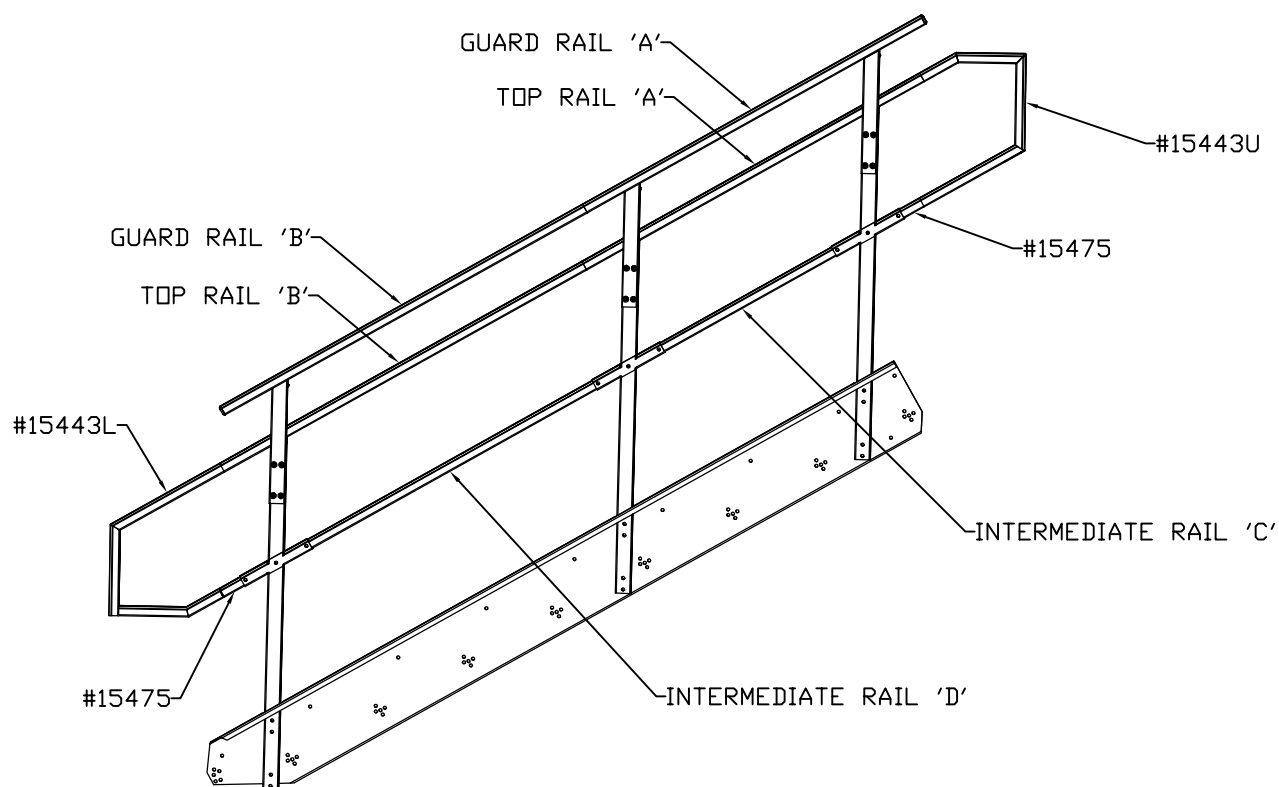


IBC5 – IBC7 RAILING CHART



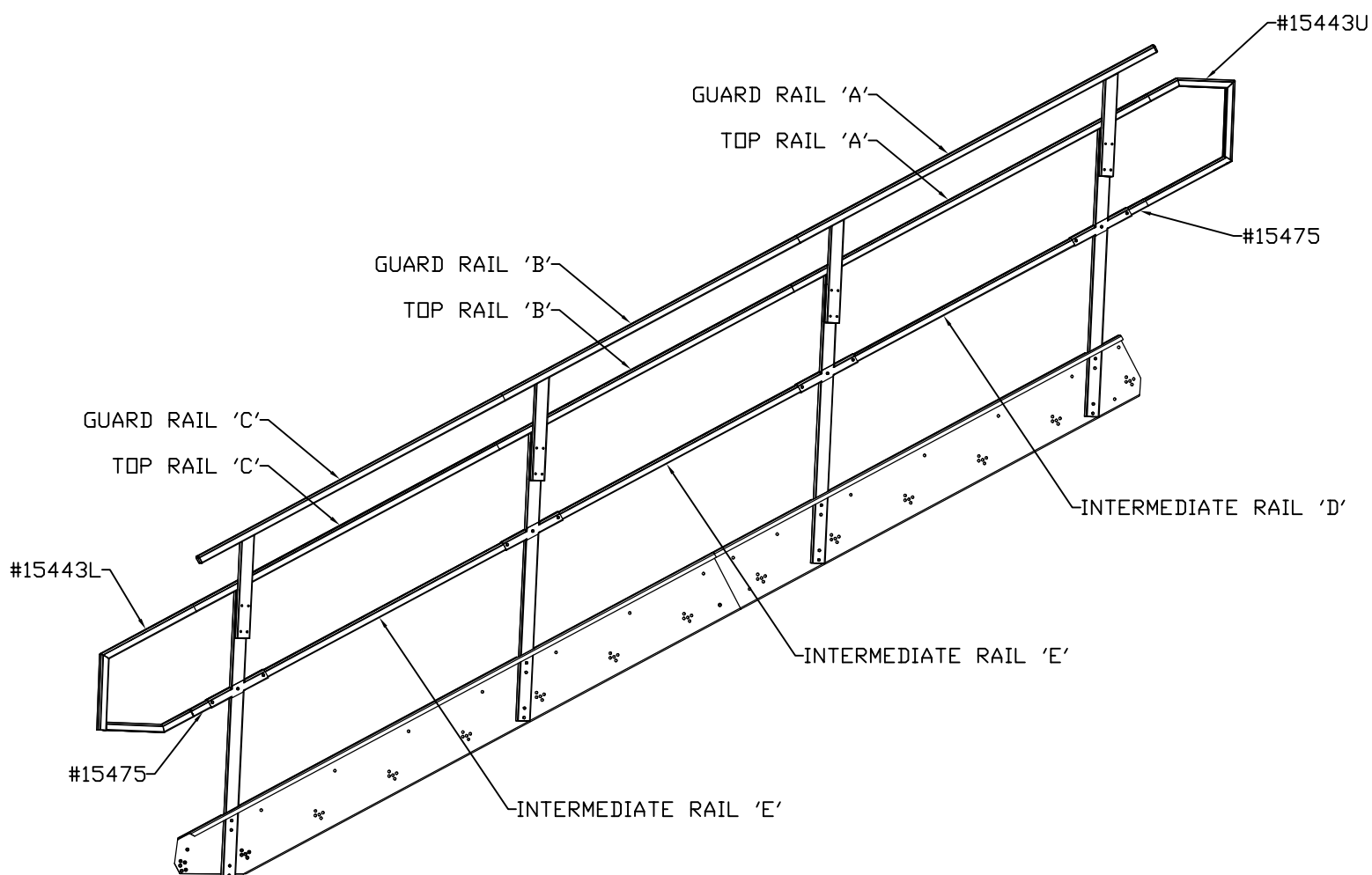
STAIRWAY	TOP RAIL	LENGTH	GUARD RAIL	LENGTH	INTER. RAIL	LENGTH
IBC5	15473UR	64-7/16"	15473UR	64-7/16"	15460UR	45-1/32"
IBC6	15474UR	77-15/32"	15474UR	77-15/32"	15429UR	58-1/16"
IBC7	15470UR	90-1/2"	15470UR	90-1/2"	15459UR	71-3/32"

IBC8 – IBC11 RAILING CHART



STAIRWAY	'A'	LENGTH	'B'	LENGTH	'C'	LENGTH	'D'	LENGTH
IBC8	15471UR	49-31/32"	15471LR	53-9/16"	15471UL	32"	15472UL	48-23/32"
IBC9	15457UR	63"	15471LR	53-9/16"	15460UR	45-1/32"	15472UL	48-23/32"
IBC11	15468UR	76-1/32"	15457LR	66-19/32"	15429UR	58-1/16"	15460LR	61-3/4"

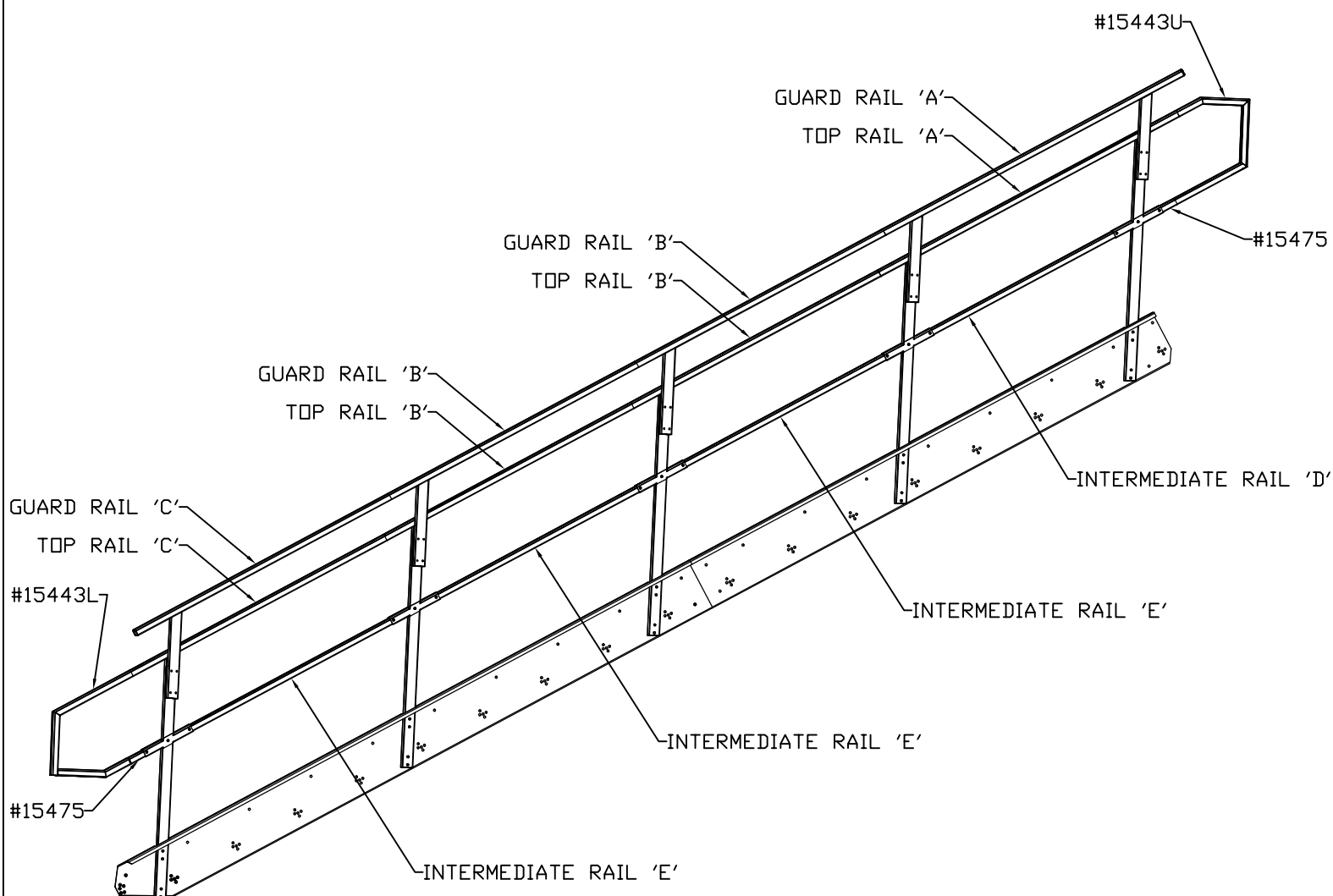
IBC13 – IBC15 RAILING CHART



STAIRWAY	'A'	LENGTH	'B'	LENGTH	'C'	LENGTH
IBC13	15457UR	63"	15447MR	52-5/32"	15471LR	53-9/16"
IBC15	15457UR	63"	15457MR	65-5/32"	15457LR	66-19/32"

STAIRWAY	'D'	LENGTH	'E'	LENGTH
IBC13	15460UR	45-1/32"	15472UL	48-23/32"
IBC15	15460UR	45-1/32"	15460LR	61-3/4"

IBC17 – IBC20 RAILING CHART



STAIRWAY	'A'	LENGTH	'B'	LENGTH	'C'	LENGTH
IBC17	15457UR	63"	15447MR	52-5/32"	15471LR	53-9/16"
IBC20	15457UR	63"	15457MR	65-5/32"	15457LR	66-19/32"

STAIRWAY	'D'	LENGTH	'E'	LENGTH
IBC17	15460UR	45-1/32"	15472UL	48-23/32"
IBC20	15460UR	45-1/32"	15460LR	61-3/4"