

Extra Width Extension (Extension is wider than attaching stairs)



Standard Stair Extension (Stair and extension are same width)

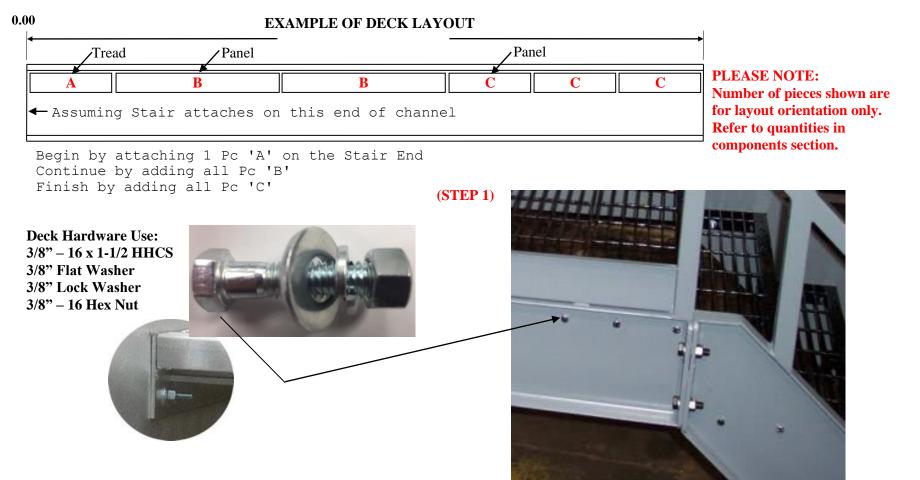
Rev: 2/15/18

Stair and Extension Connection

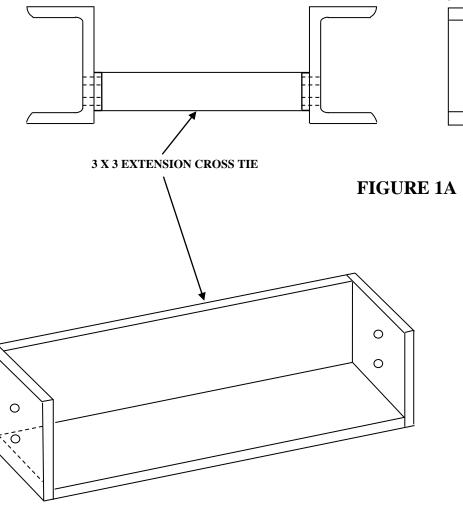


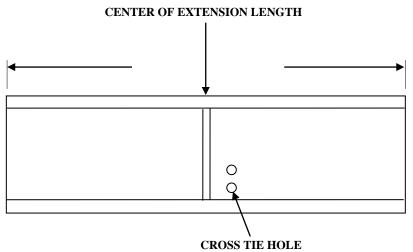
Instructions Apply To All Extension Types

1. Position the two extension channels on blocks or dunnage in order to allow installation of the deck panels shown on the deck layout page, located in the components section of these instructions (See Sheets in the 5000 series). Starting at the stair end of the channels start with deck piece A (tread) and follow the order of pieces shown on the deck layout page. If your extension is the center of a crossover stair, there will be a piece A (tread) at each end of the extension.



1A) If the stair extension length is less than 60" skip this step, else install an extension cross tie between the bottoms of the extension channels near center of the extension length as shown if figure 1A, using the same 3/8" hardware as Step 1.





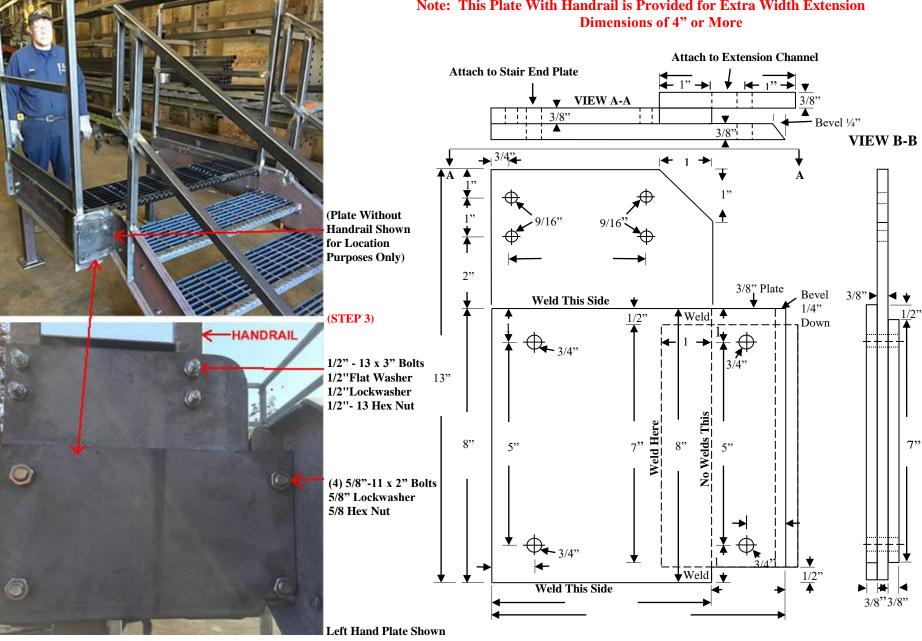
Cross Tie Hardware Use: 4 of each 3/8" – 16 x 1-1/2 HHCS 3/8" Flat Washer 3/8" Lock Washer 3/8" – 16 Hex Nut





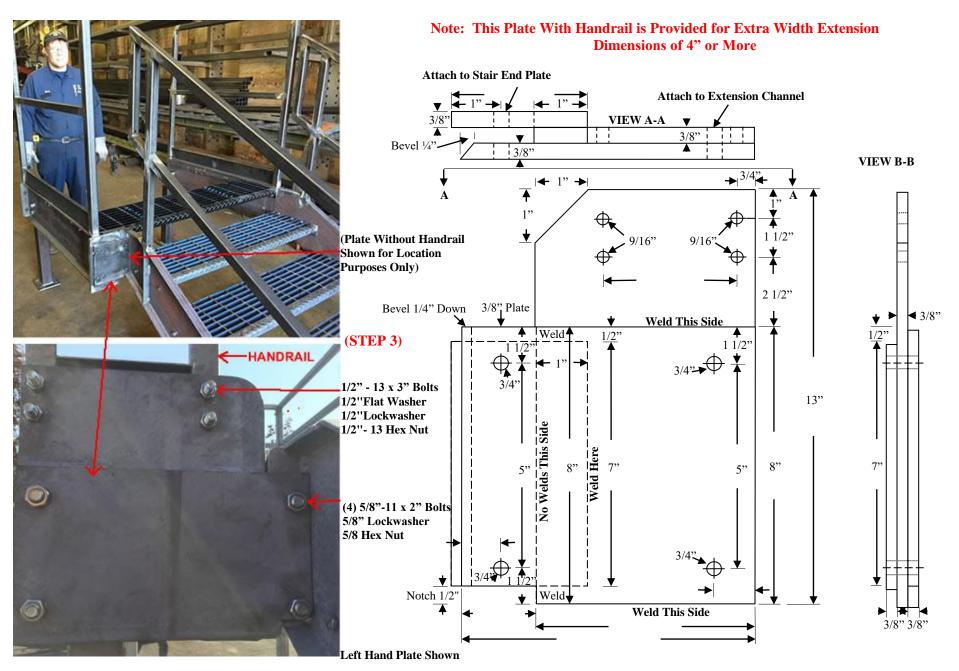
2. If your extension exits left, right or dead ends, install the separate handrail frame on the extension end opposite the stair end using 1/2" hardware.





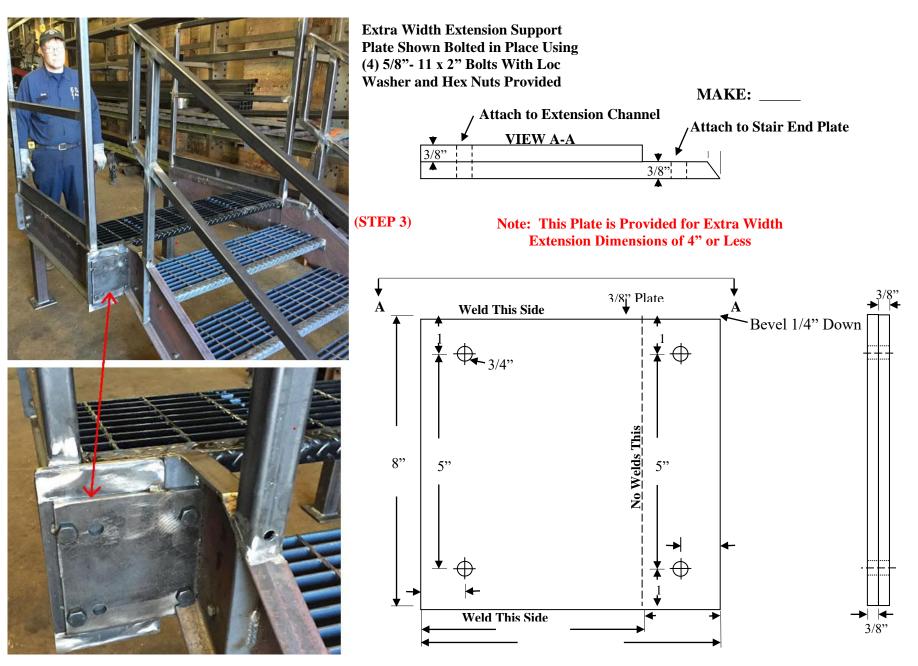
Note: This Plate With Handrail is Provided for Extra Width Extension

Extended Exit Support Plate - Left with Handrail Plate



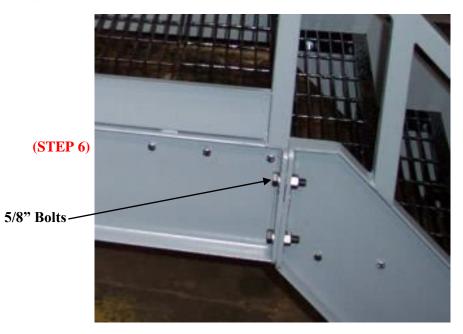
Extended Exit Support Plate - Right with Handrail Plate

AI2000-5



Extended Exit Support Plate - Left or Right

- 4. Elevate the extension platform to the appropriate height and safely secure it in a stable position.
- 5. If optional support columns were ordered, attach them to the inside of the extension channels as shown in sheet AI2000-8 which will be included here or else skip this step.
- 6. Elevate the completed stair into position and connect to the extension channels or to the extra width support plates as shown here using 5/8" hardware.
- 7. Square and level the assembled structure and anchor in place. (Anchors not provided unless ordered separately.)
- 8. If provided install the diagonal cross braces on the support columns (only required on heights greater than 72"). Refer to sheet AI2000-9 or else skip this step.
- 9. If optional extension wall brackets were ordered they can be attached to the bottom flange of the extension channel using a tek screw per sheet AI2000-10.



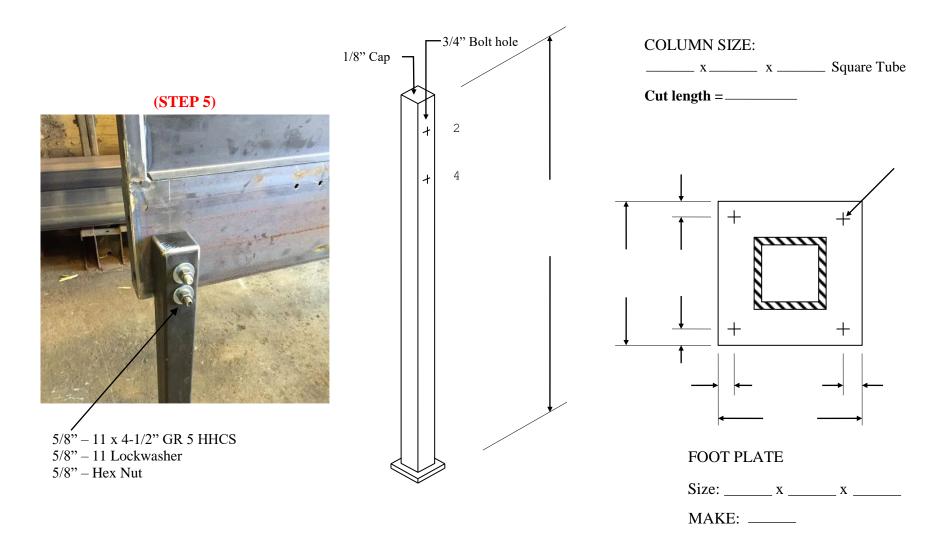
Rev: 2/21/18

If stair was supplied with an extension platform or landing, the top mounting hardware is supplied using (4) 5/8"-11 x 2 bolts, lock washers, and hex nuts.

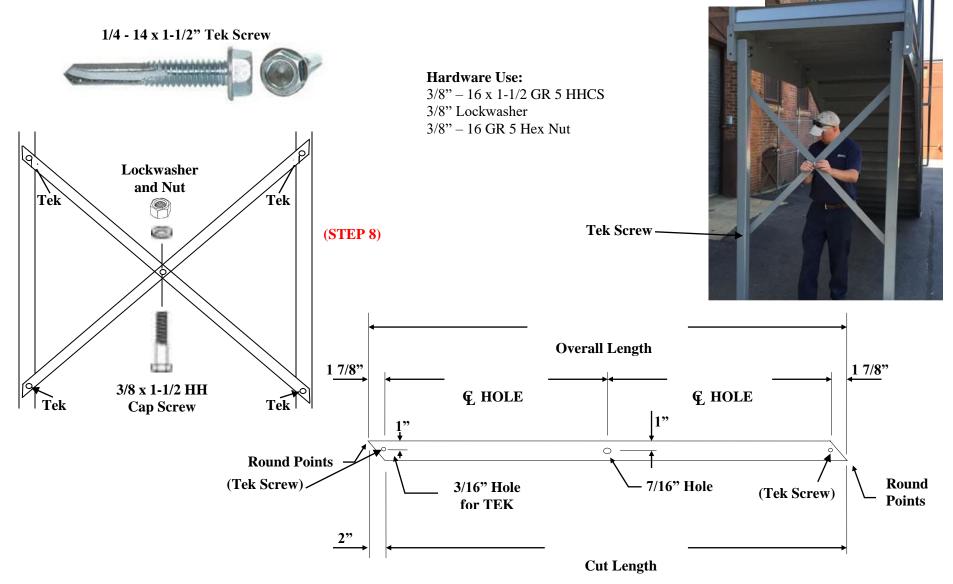


Extra Width Extension (Extension is wider than attaching stairs) (STEP 6)

EXTENSION SUPPORT COLUMNS PROVIDED AS CUSTOMER ORDERED OPTIONS

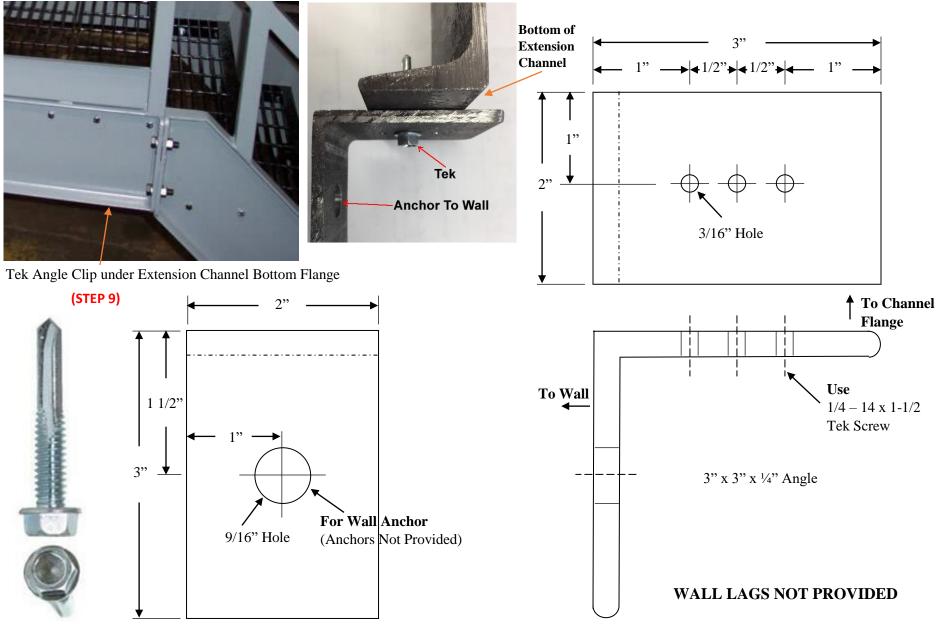


SWAY BRACES PROVIDED FOR COLUMNS OVER 72" HIGH 1/4" x 2" SWAY BRACE FOR SUPPORT COLUMNS

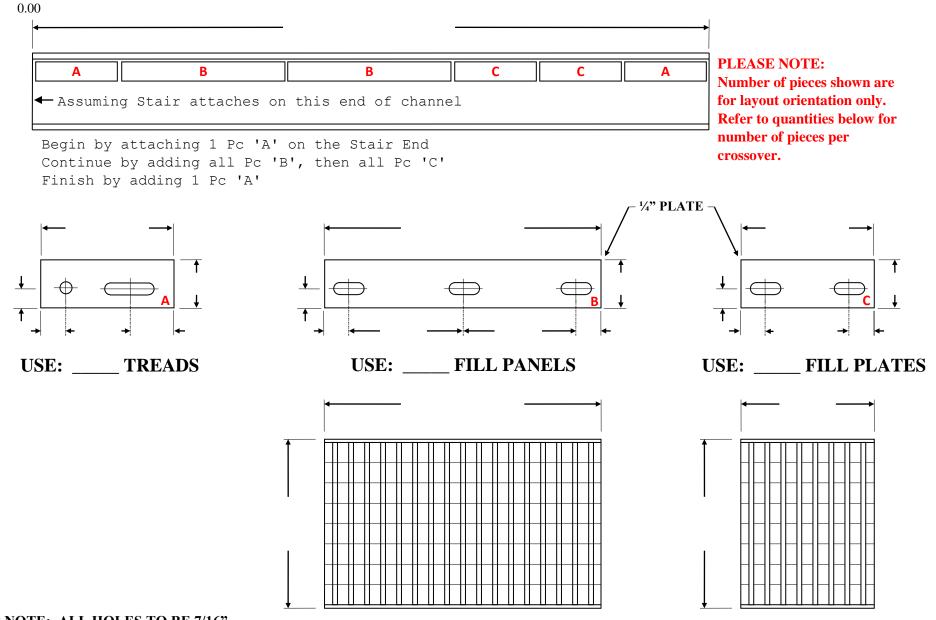


Extension Sway Brace for Support Columns

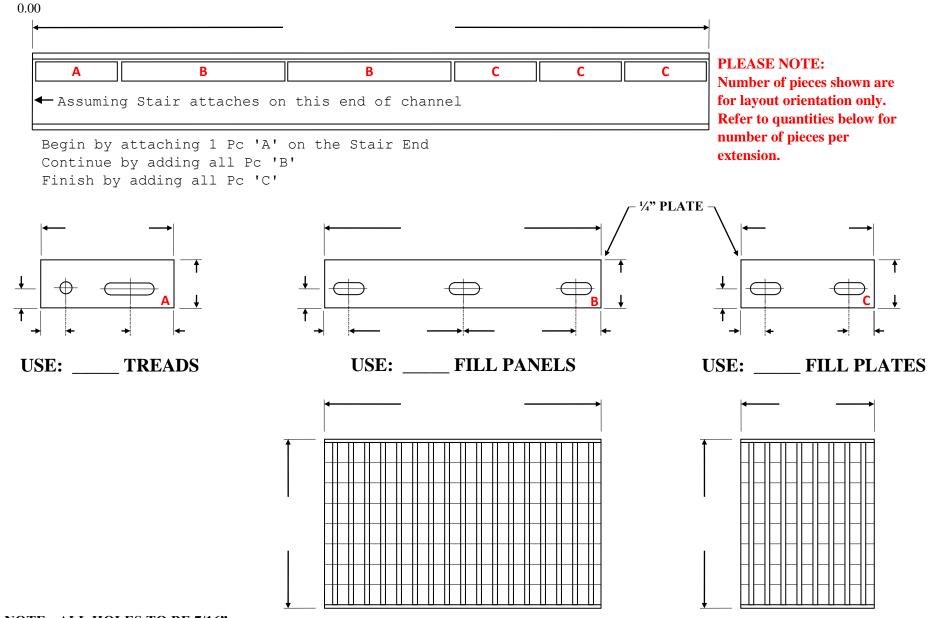
Rev: 2/21/18



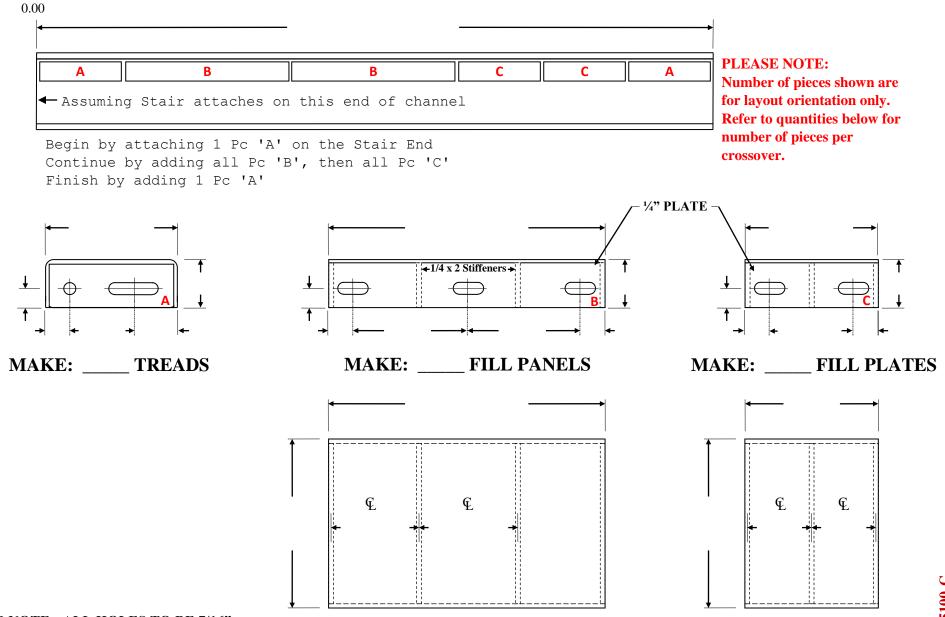
Rev: 2/23/18



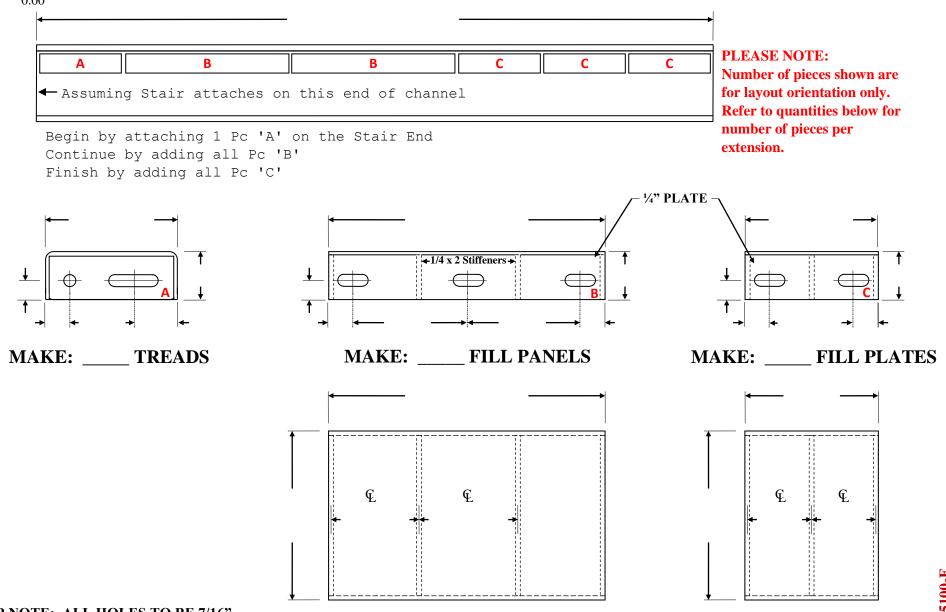
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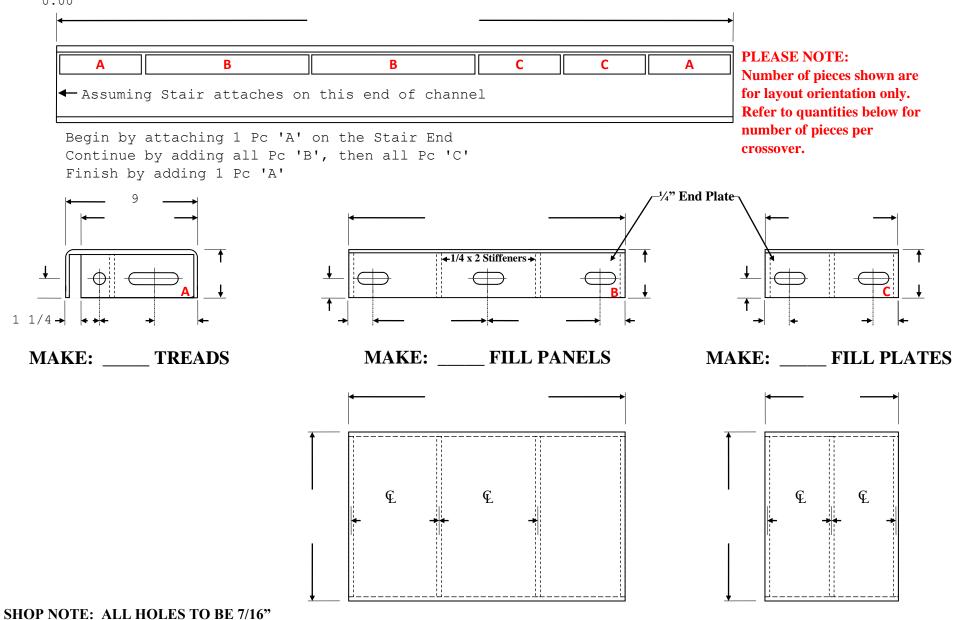
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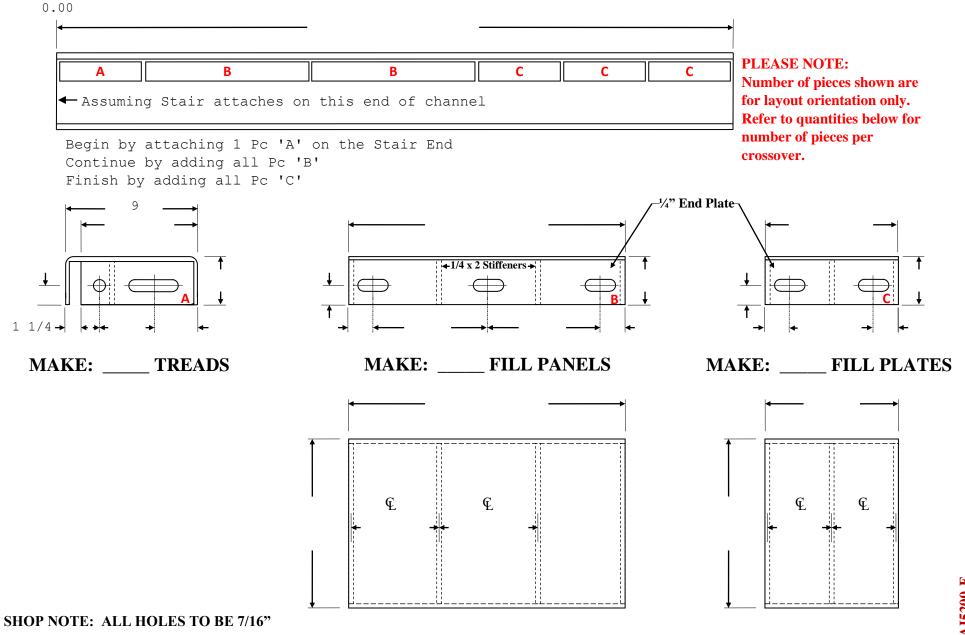
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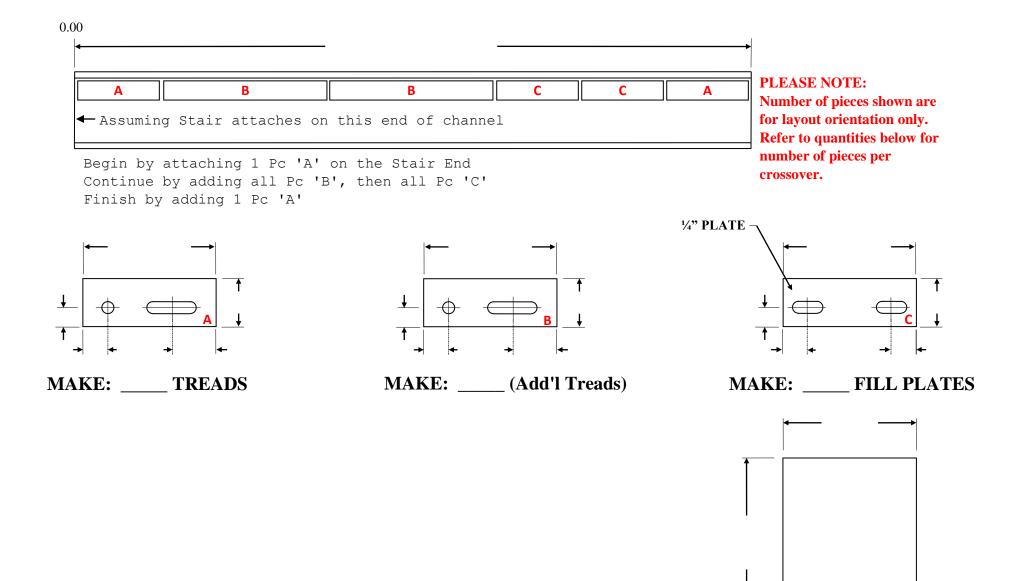
Rev: 12/28/18

AI5200-C

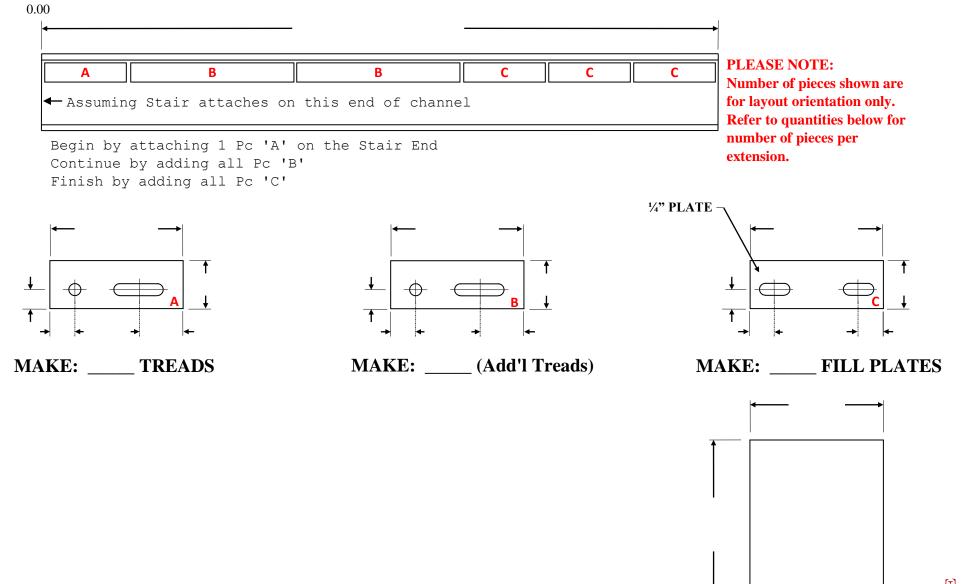


Diamond Plate, Algrip Closed Riser Tread Deck and Channel Drill Sheet

AI5200-E



AI5300-C



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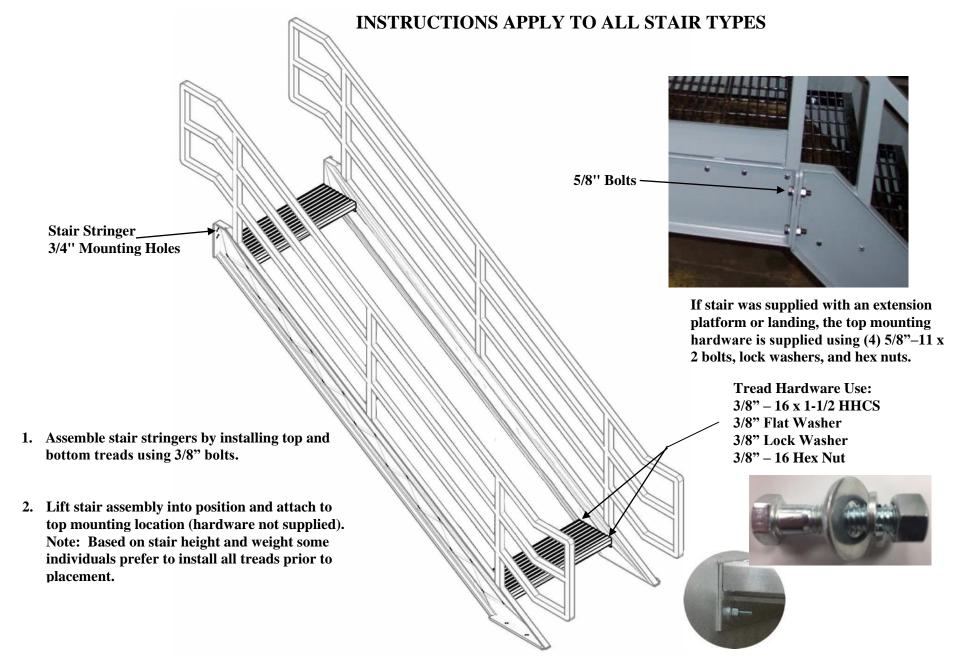


STAIR ASSEMBLY MANUAL FOR ALL TYPES

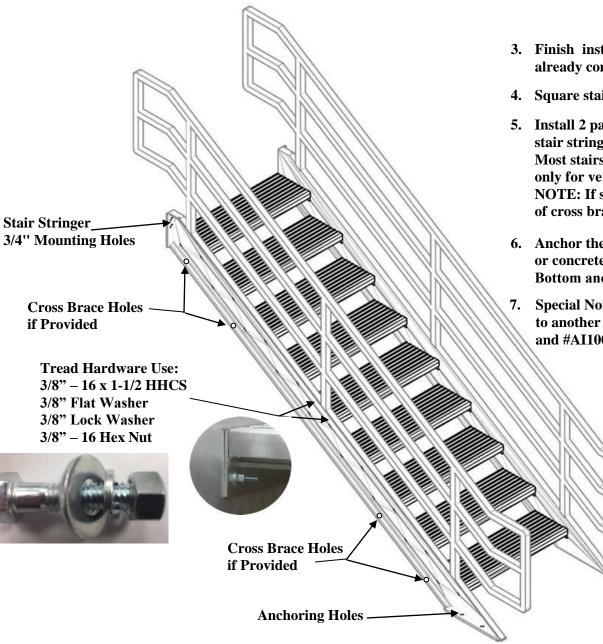


Rev: 2/15/18

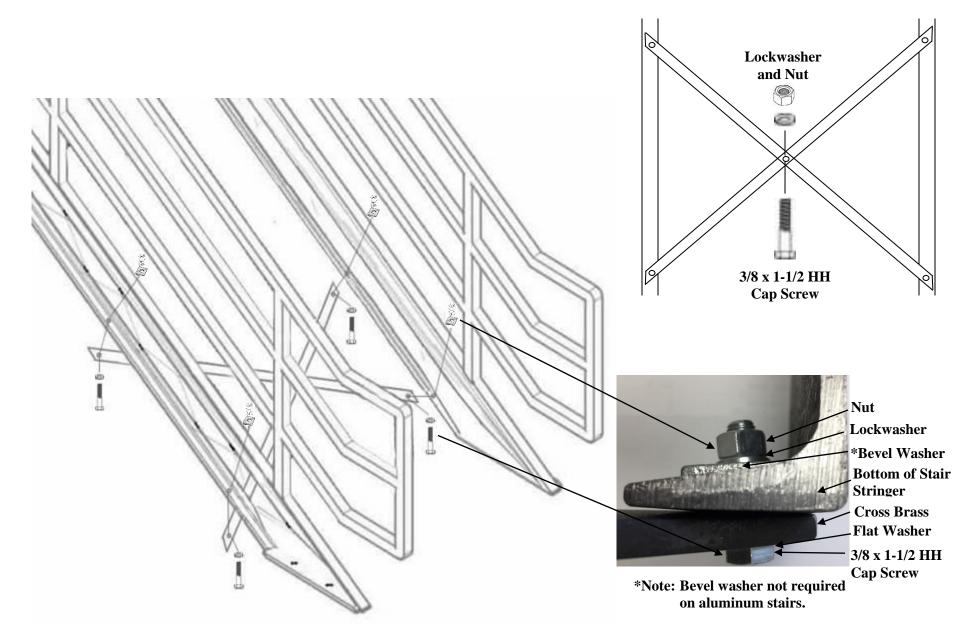
AI1000-1



Rev: 2/15/18



- **3.** Finish installing all remaining treads if not already completed.
- 4. Square stair and tighten all tread hardware.
- Install 2 pairs of cross braces on underside of stair stringers if provided (see sheet AI1000-4). Most stairs do not require them and are used only for very tall or wide designs. NOTE: If stairs are part of a crossover, one pair of cross braces is provided for heights over 36".
- 6. Anchor the bottom of the stair using lag screws or concrete anchors (hardware not supplied). Bottom anchoring holes are 9/16".
- . Special Note: If your stair handrail connects to another stair handrail see sheets #AI1000-5 and #AI1000-6



Cross Brace Assembly



Bottom View of IBCB Dog Leg

Rev: 5/22/18



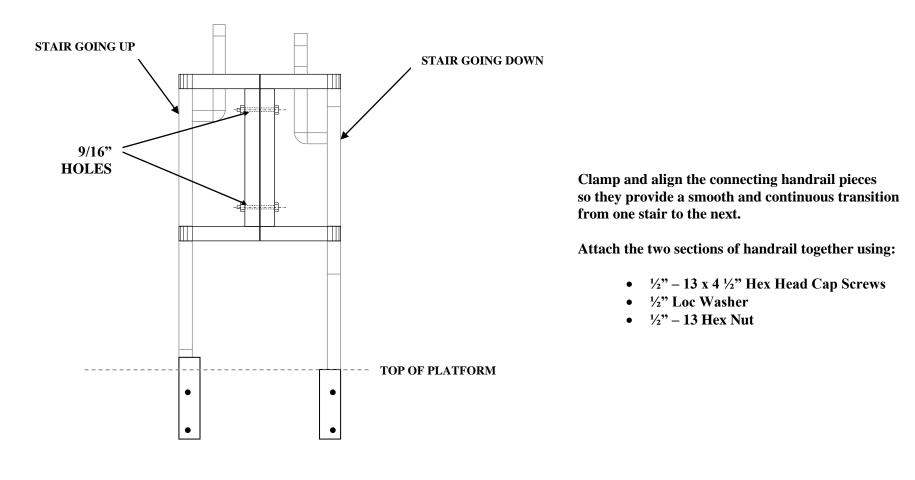
Top View of IBCB Connected Dog Legs

For many stair tower installations, it is sometimes necessary to connect stair handrails using a "dog leg" design. The figure on left shows the connection method used for single handrail connections such as stairs made for IBC full compliance (Inboard rail with vertical picket guard type IBCB).

Clamp and align the connecting handrail pieces so that they provide a smooth and continuous transition from one stair to the next.

Join the underside of the butting handrails using a 4" x ½" x 14 gauge flat strap and #8 x 1 modified truss head tek screws. See Photo on the left.

For stairs made for IBC industrial conformance (outboard guard type IIOS)



AI1000-6