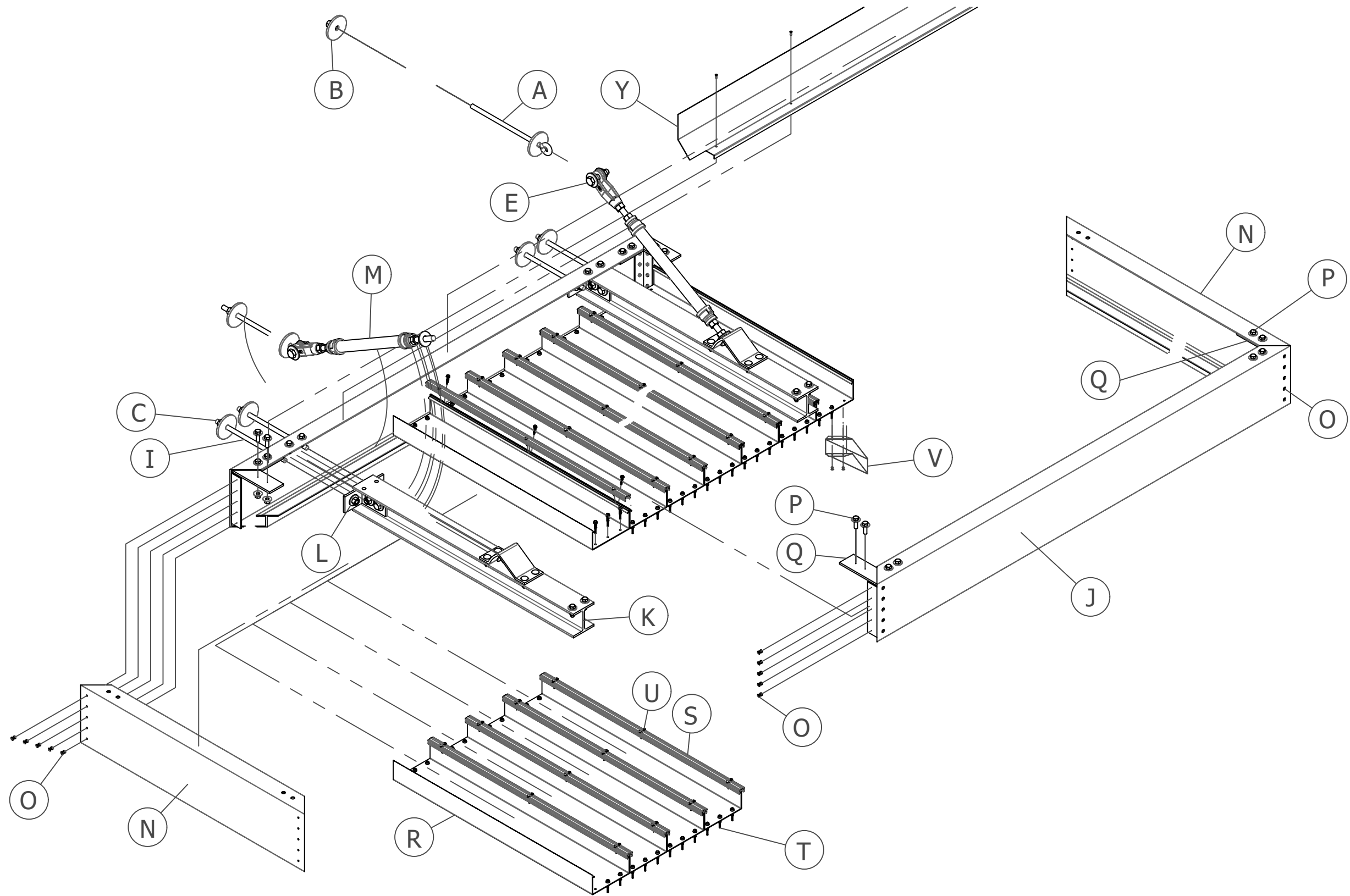
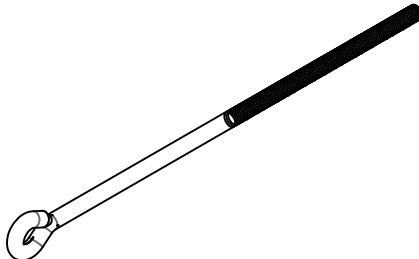


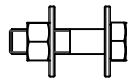

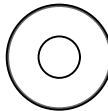
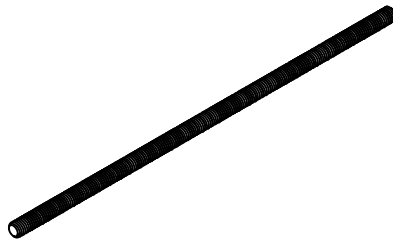


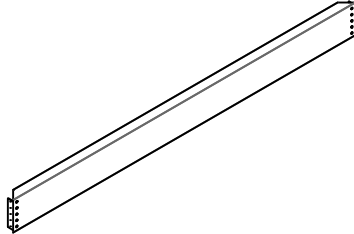
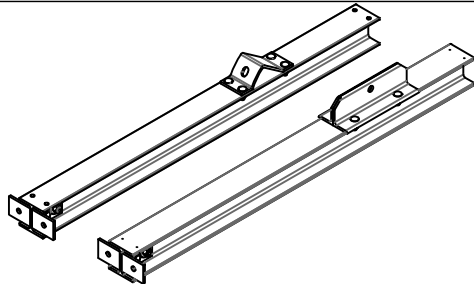
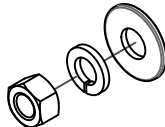
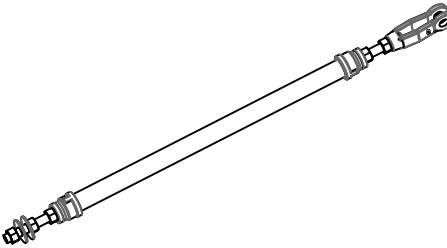

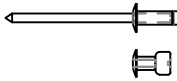

Canopy Assembly Instructions: Flat Soffit Hanger Rod

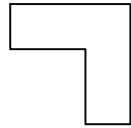


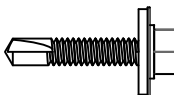



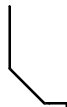


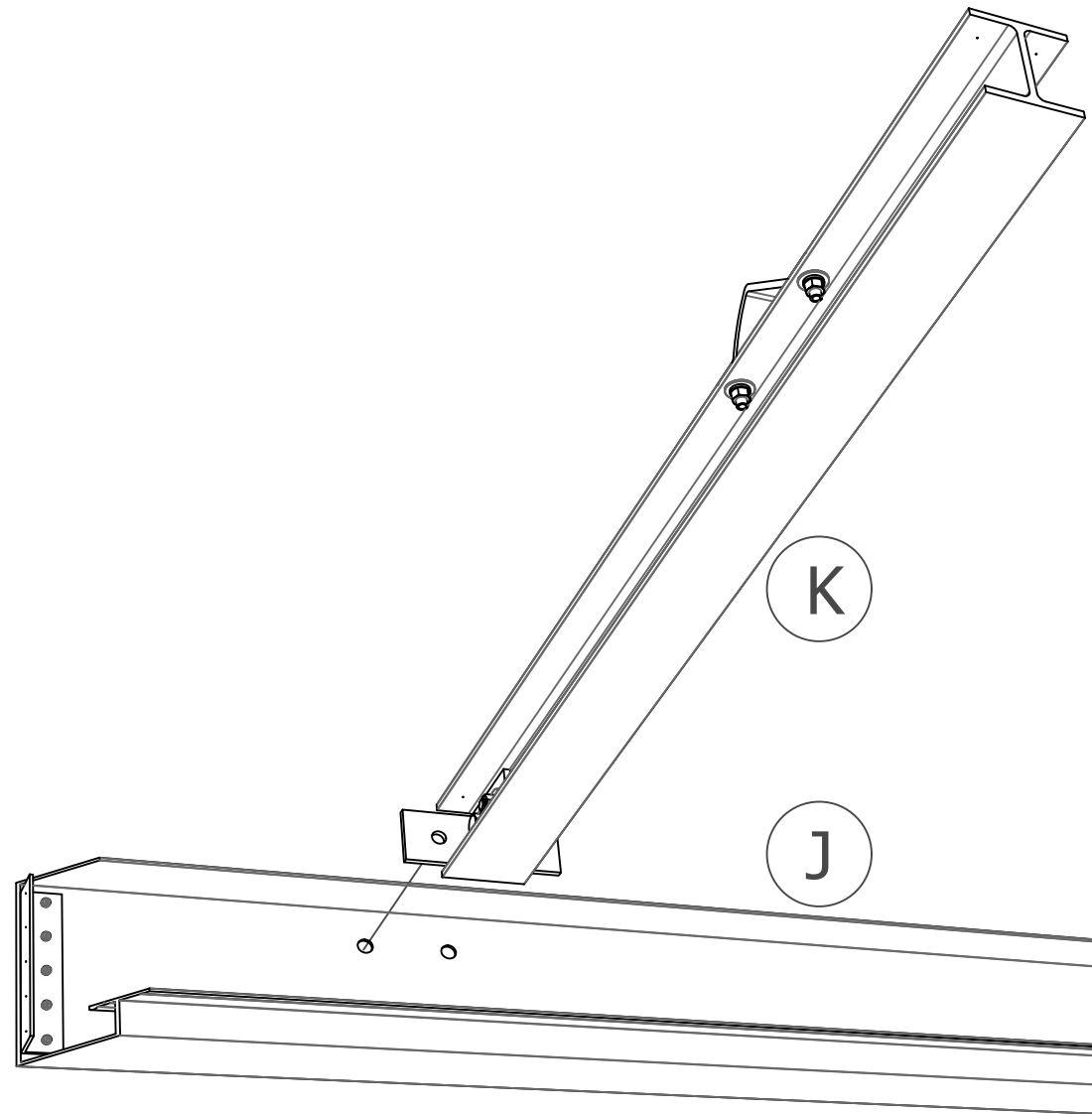
NOTE: USE THESE GENERAL INSTRUCTIONS IN CONJUNCTION WITH THE CANOPY SHOP DRAWINGS FOR YOUR SPECIFIC APPLICATION.

Parts List: Flat Soffit Hanger Rod

	A	1/2" Eyebolt
	B	3" Washer
	C	1/2" Nut
	E	5/8"x2 1/2" Thru Bolt Assembly
	G	5/8" Nut
	H	5/8" Washer
	I	Threaded Rod

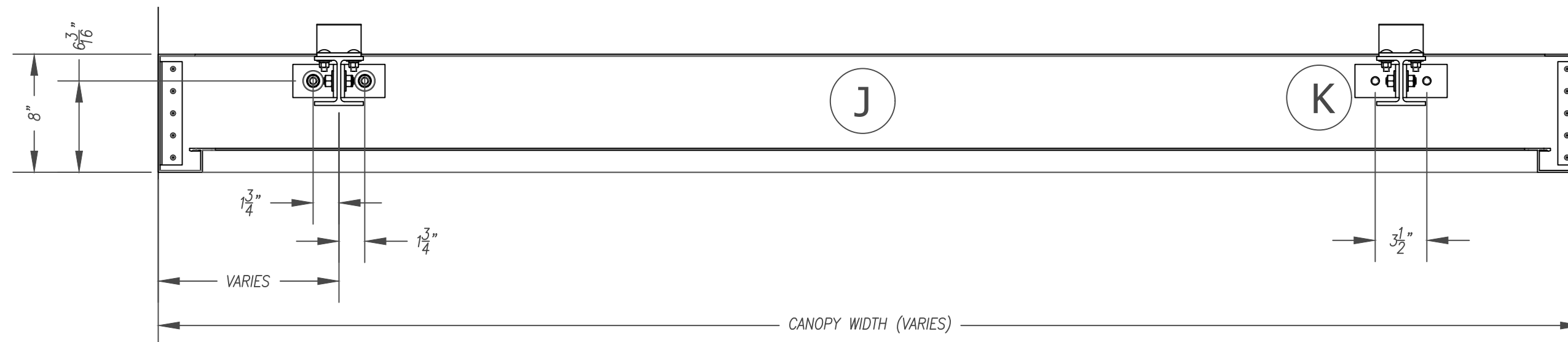
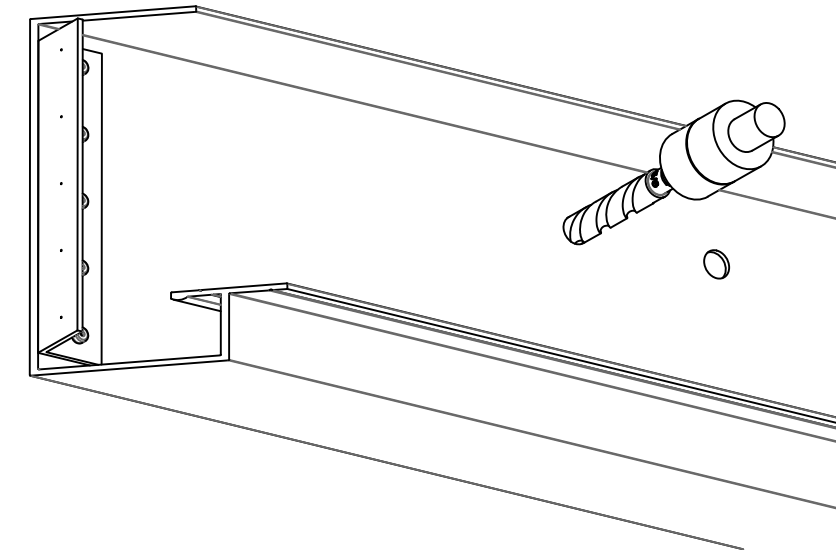
	J	Fascia Assembly
	K	Hanger Beam Assembly
	L	1/2" Washer, Lock Washer, Nut
	M	Hanger Pipe Assembly
	N	8"x.125 Fascia
	O	3/16" Pop Rivet
	P	3/8" x 1 1/4" Machine Bolt Assembly

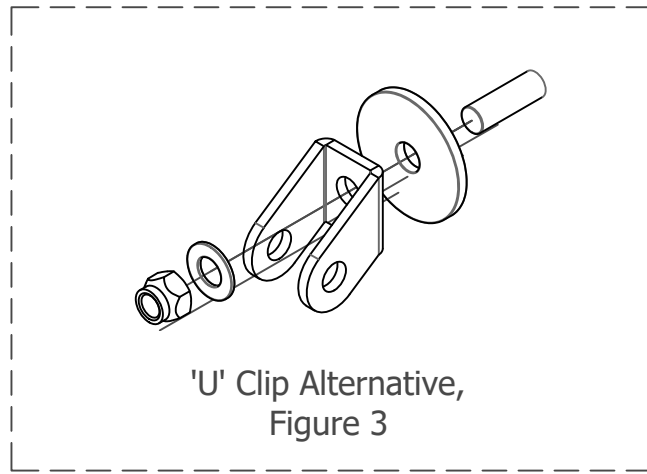
	Q	Fascia Corner Support Plate
	R	6"x2 3/4"x.078 Deck
	S	Snap Cap Connector
	T	#12-24 5pt Tek Screw
	U	#10-16 3pt Tek Screw
	W	Drain Stub
	X	Downspout
	Y	Flashing



1. Drill Wall Fascia For Mounting

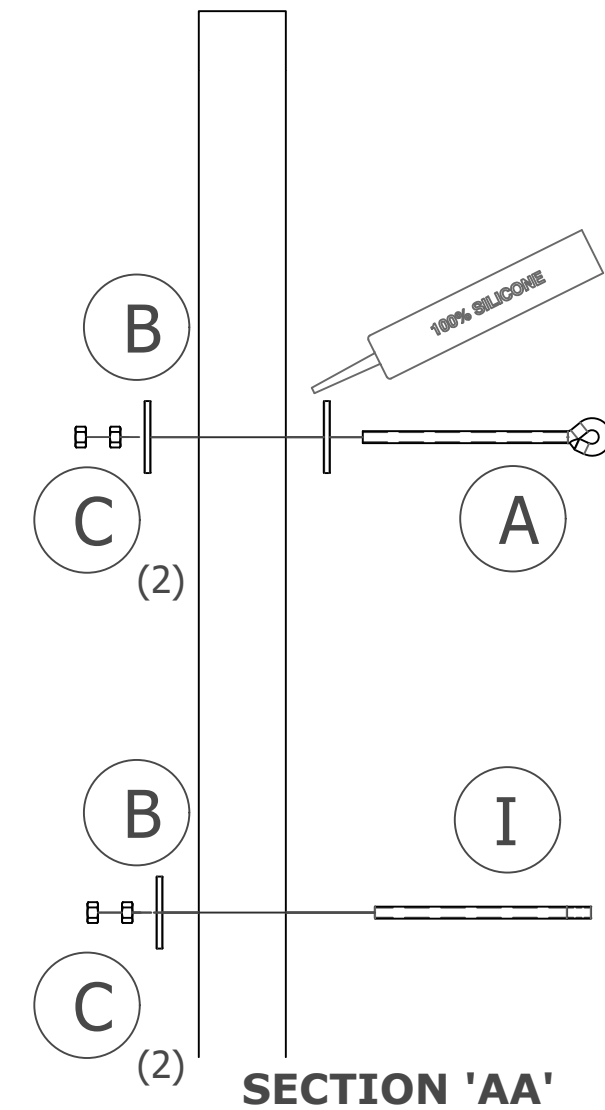
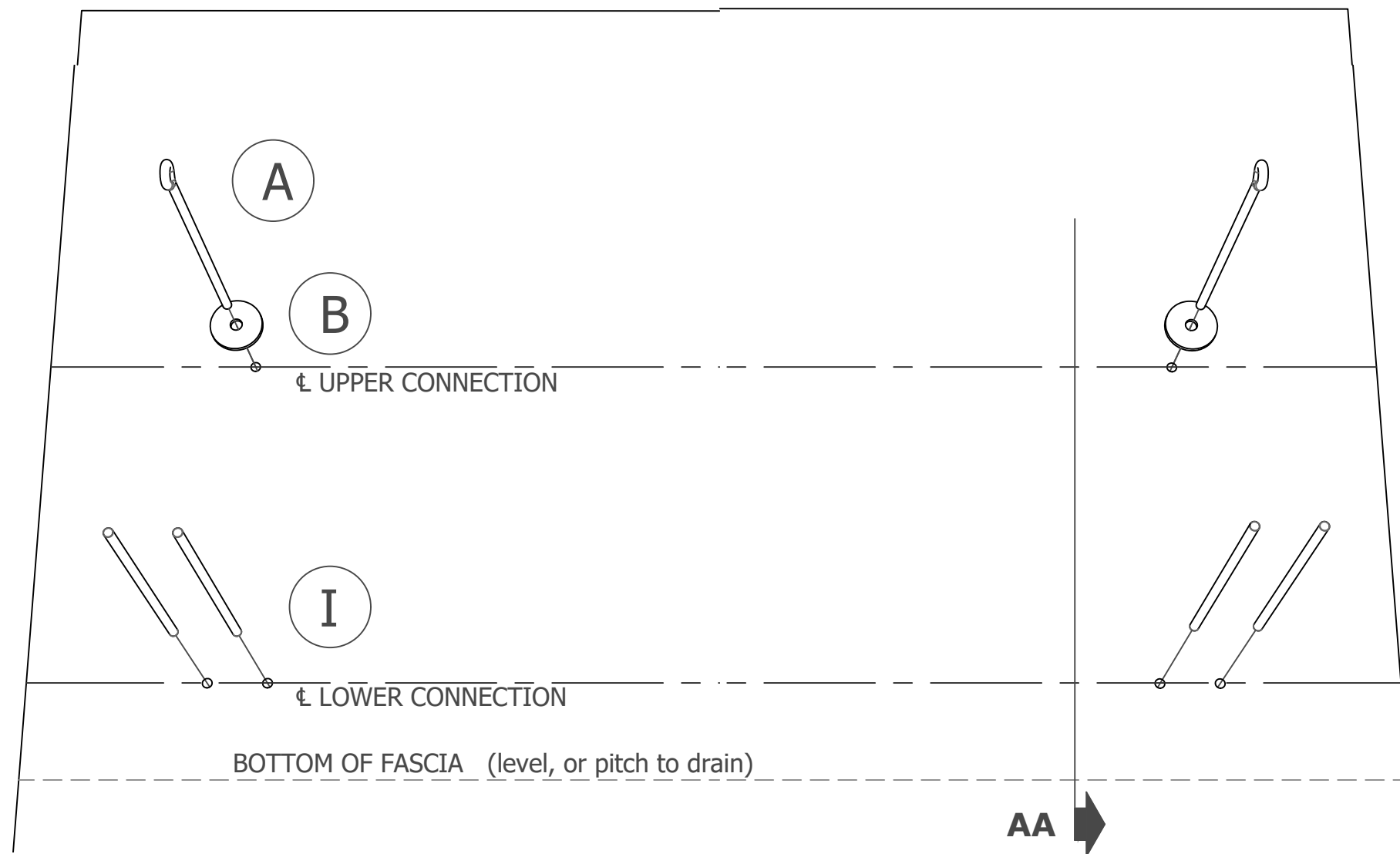
- a) Using I-beam assembly rear clips (K) as guide, put directly on fascia (J) to mark out holes. Use a center punch for accurate drilling. (NOTE: I-beam assemblies are factory-assembled with front and rear clips.)
- b) Using approved shop drawings as guide, measure and locate holes spacing in wall to correspond to rear fascia holes spacing. Drill $11/16$ " holes in fascia (J) for easier fit.





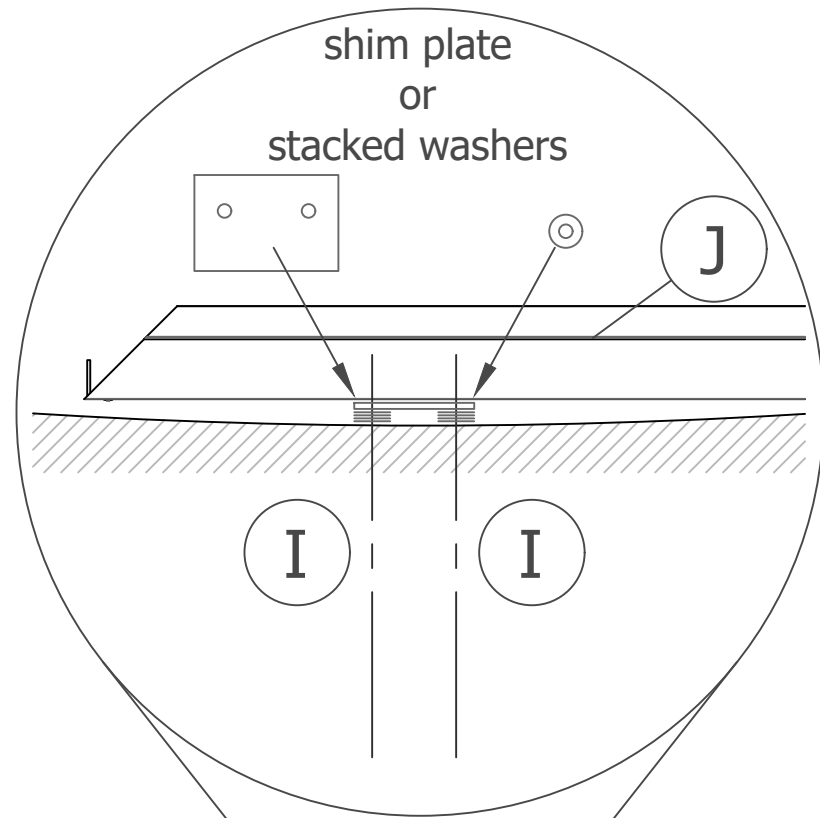
2. Install Upper and Lower Wall Anchors

- a) Eyebolt (A), collars (B), escutcheon plates (if used), backing plates (B)(C), threaded rod (I).
- b) Seal all around wall penetrations and behind escutcheon plates or collars.
- c) Alternative upper connection: through rod pre-installed during construction; escutcheon, steel 'u' clip, $\frac{5}{8}$ " flat washer, & nylon lock nut added later, with canopy installation (Figure 3).

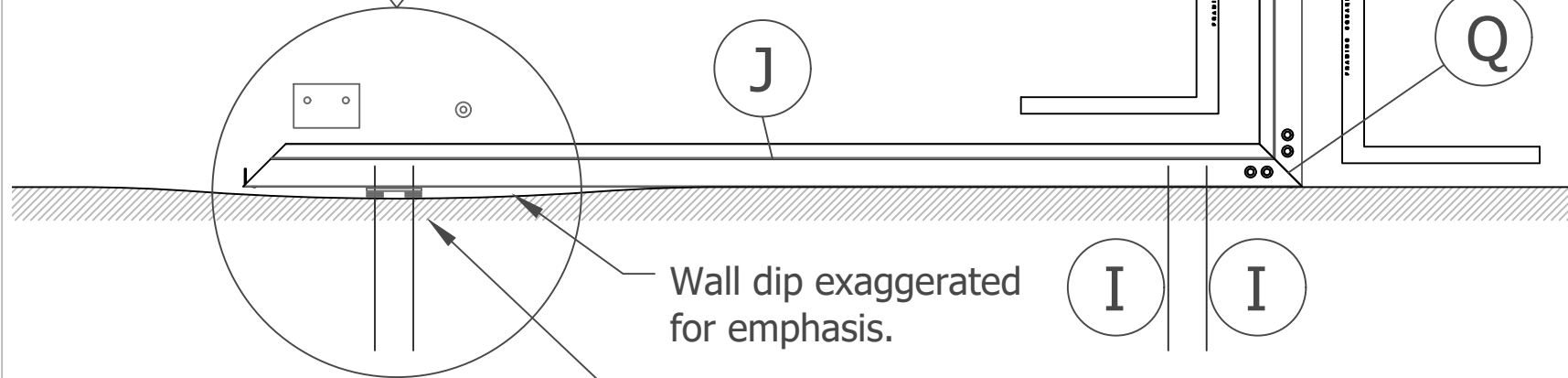


3. Assemble Back Fascia, Hanger Beams and Hanger Rods

- a) 1 1/2" x 1 1/2" inside corner braces are already assembled to fascia on 1 side (J).
- b) Hanger beams are preassembled with front and rear clips (K).
- c) Before installing rear fascia (J), check wall for uneven areas. Shim behind fascia at wall if required to prevent deflection when rear fascia is tightened to wall (shim material by installer).
- d) Fasten rear fascia (J) to wall with I-beam assembly (K)(L).

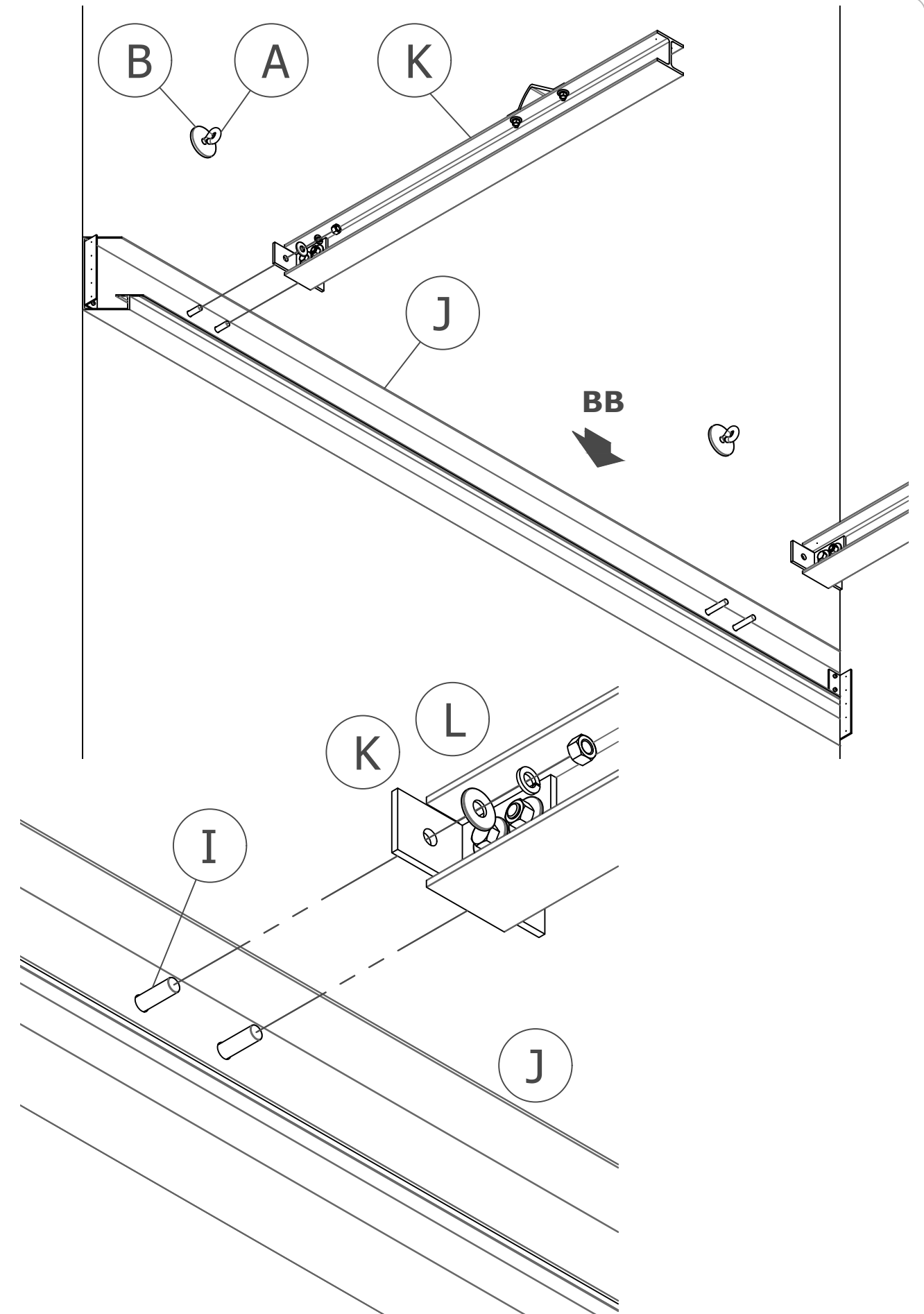


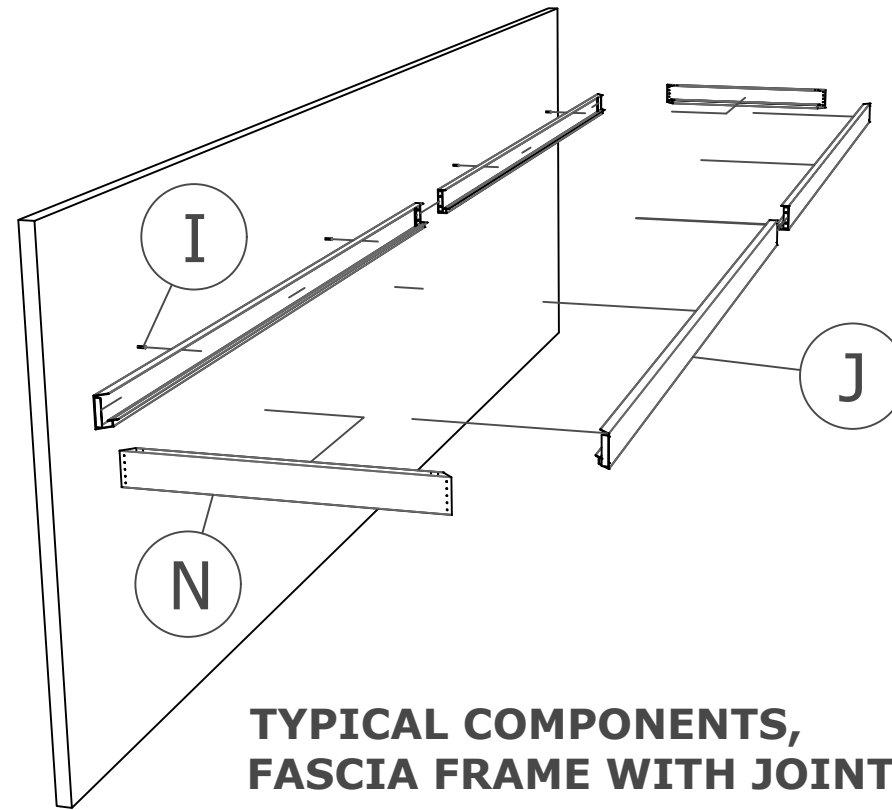
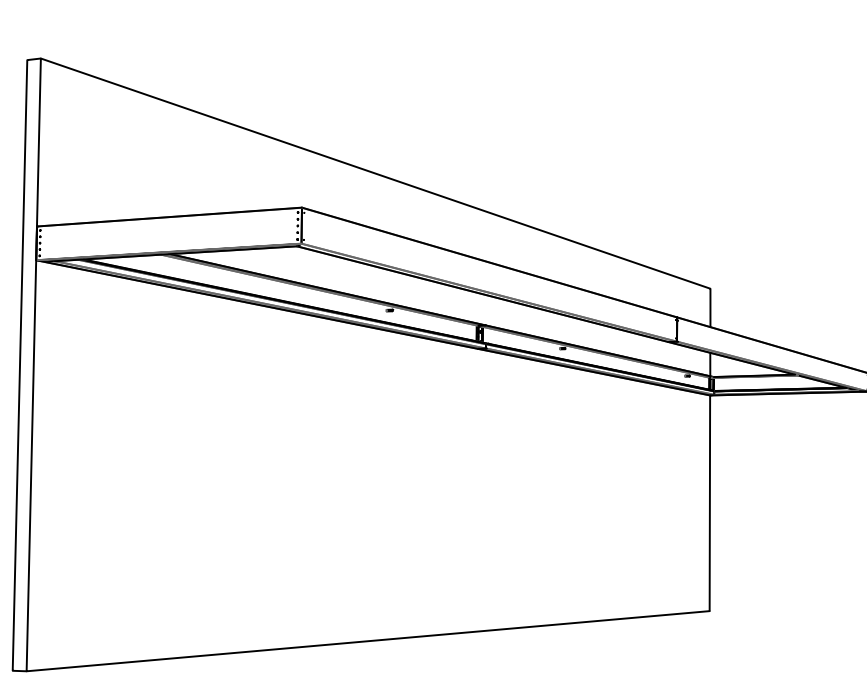
VIEW 'BB'



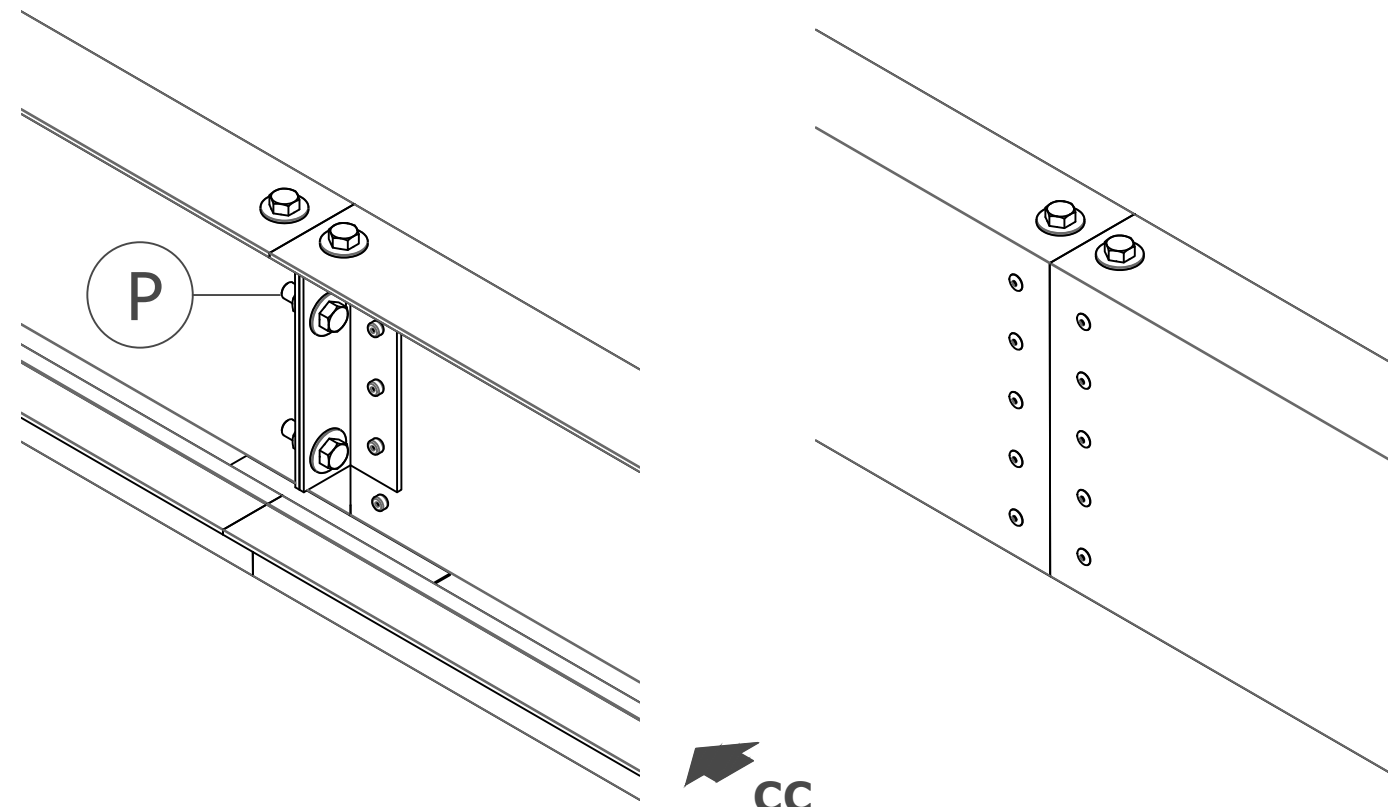
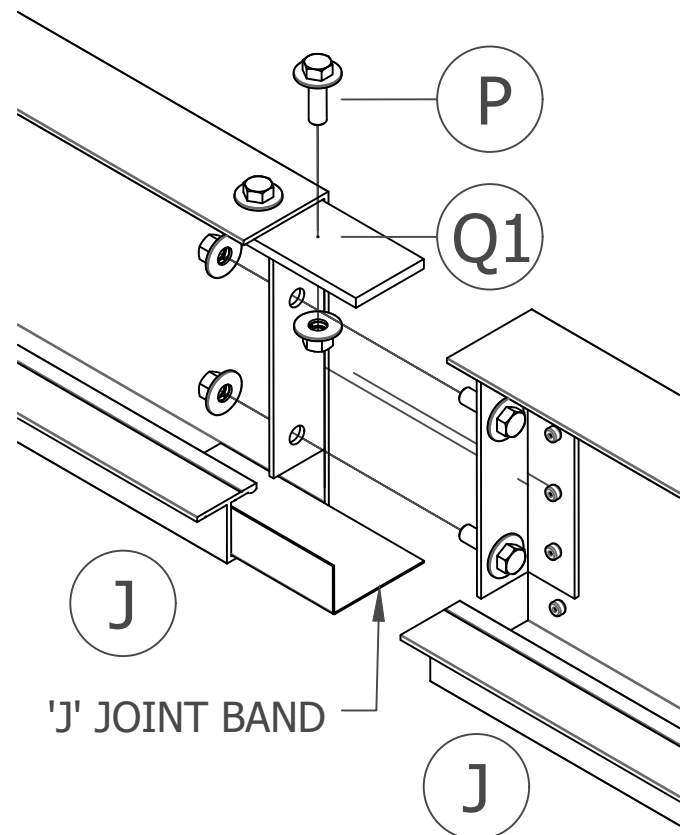
Wall dip exaggerated for emphasis.

SHIM fascia at wall irregularities to prevent deflection of rear fascia when connecting hanger beams to wall bolts.

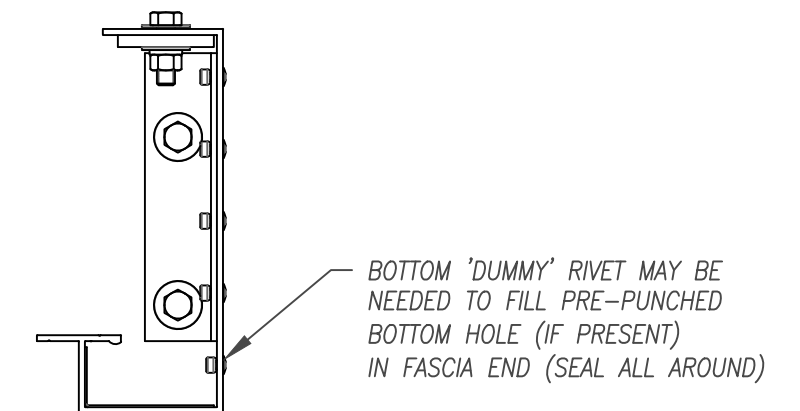




**TYPICAL COMPONENTS,
FASCIA FRAME WITH JOINTS**



FASCIA SPLICE ASSEMBLY



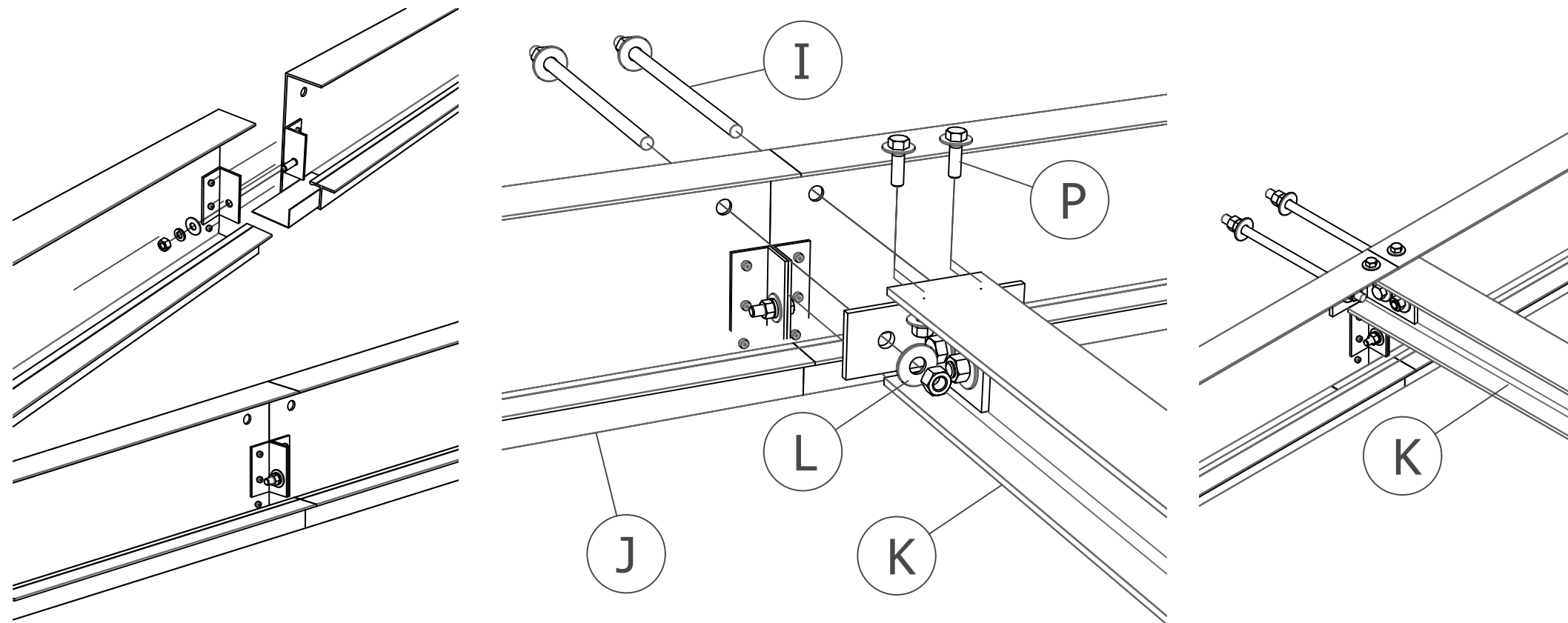
SECTION 'CC'

OPTION: Fascia Splice:

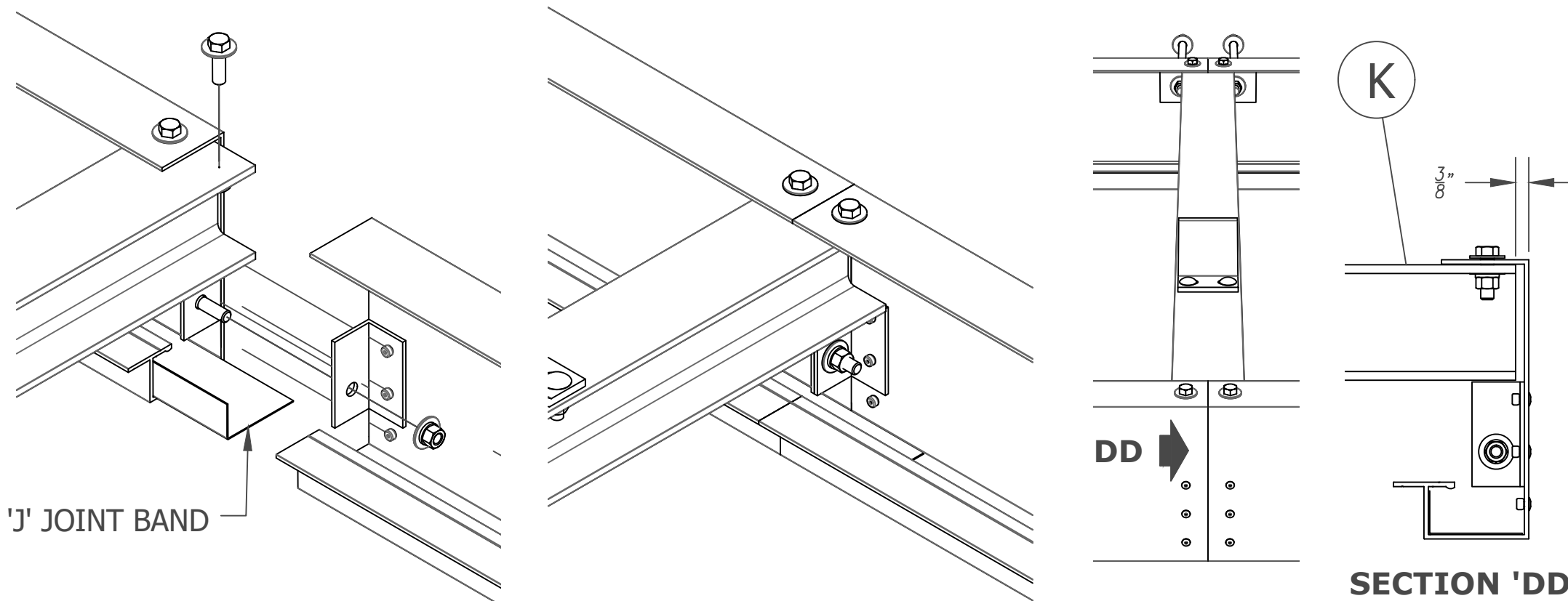
- a. On long canopies, fascia runs may be fabricated in shorter sections, due to length or handling restrictions, and are assembled on site.
- b. Fascia pieces are preassembled with 1 1/2" x 1 1/2" angles at splice location.

When fascia "breaks" between hanger beams (preferred):

- c. Mate fascia pieces (J) using 3/8" machine bolt assemblies (P) to draw joint angles together for a tight splice.
- d. Clamp and drill 7/16" holes through fascia (J) top lip and 2" x 6" top splice plate (Q1) and fasten top splice plate underneath top lip of fascia (J) using (2) 3/8" machine bolt assemblies (P) to join fascia pieces.
- e. Seal in joint band and joint angles at all fascia breaks.



REAR FASCIA SPLICE ASSEMBLY, AT BEAM

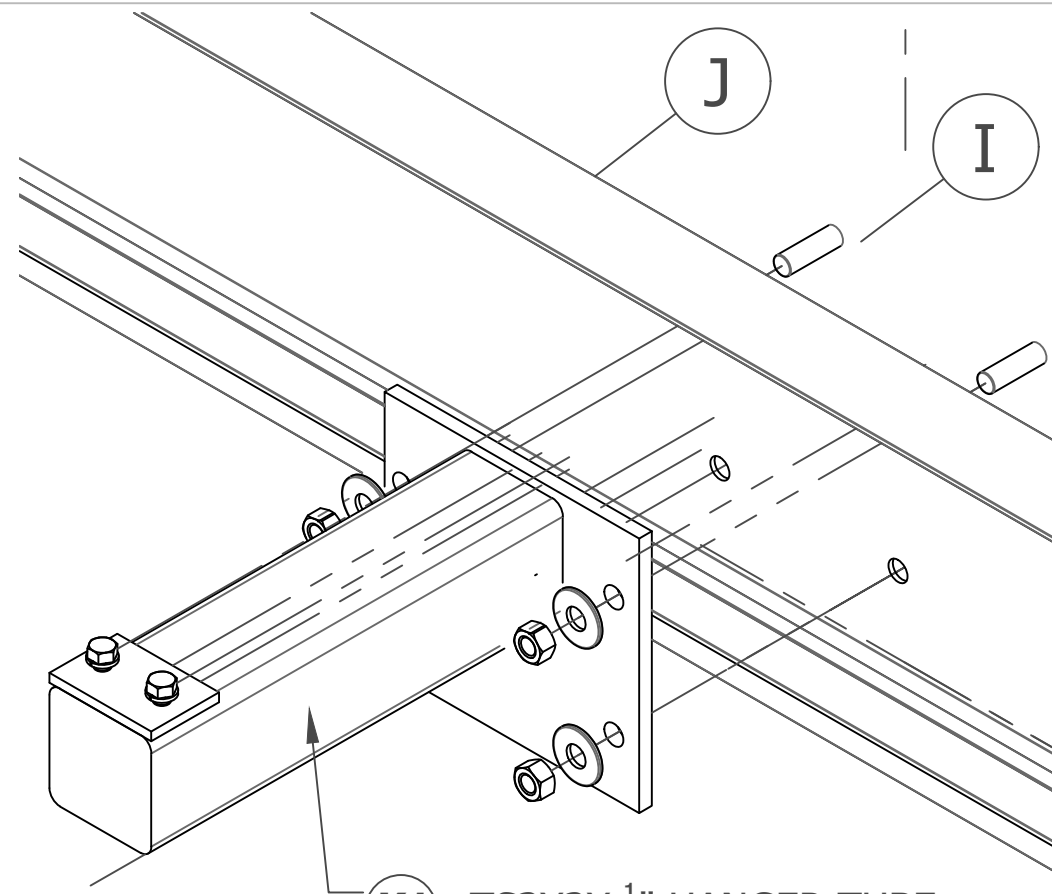


FRONT FASCIA SPLICE ASSEMBLY, AT BEAM

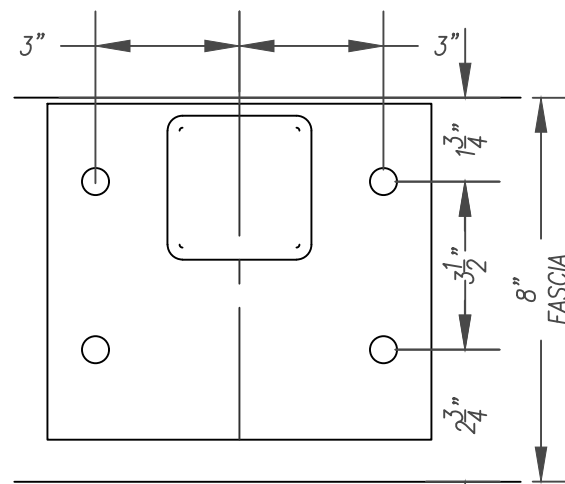
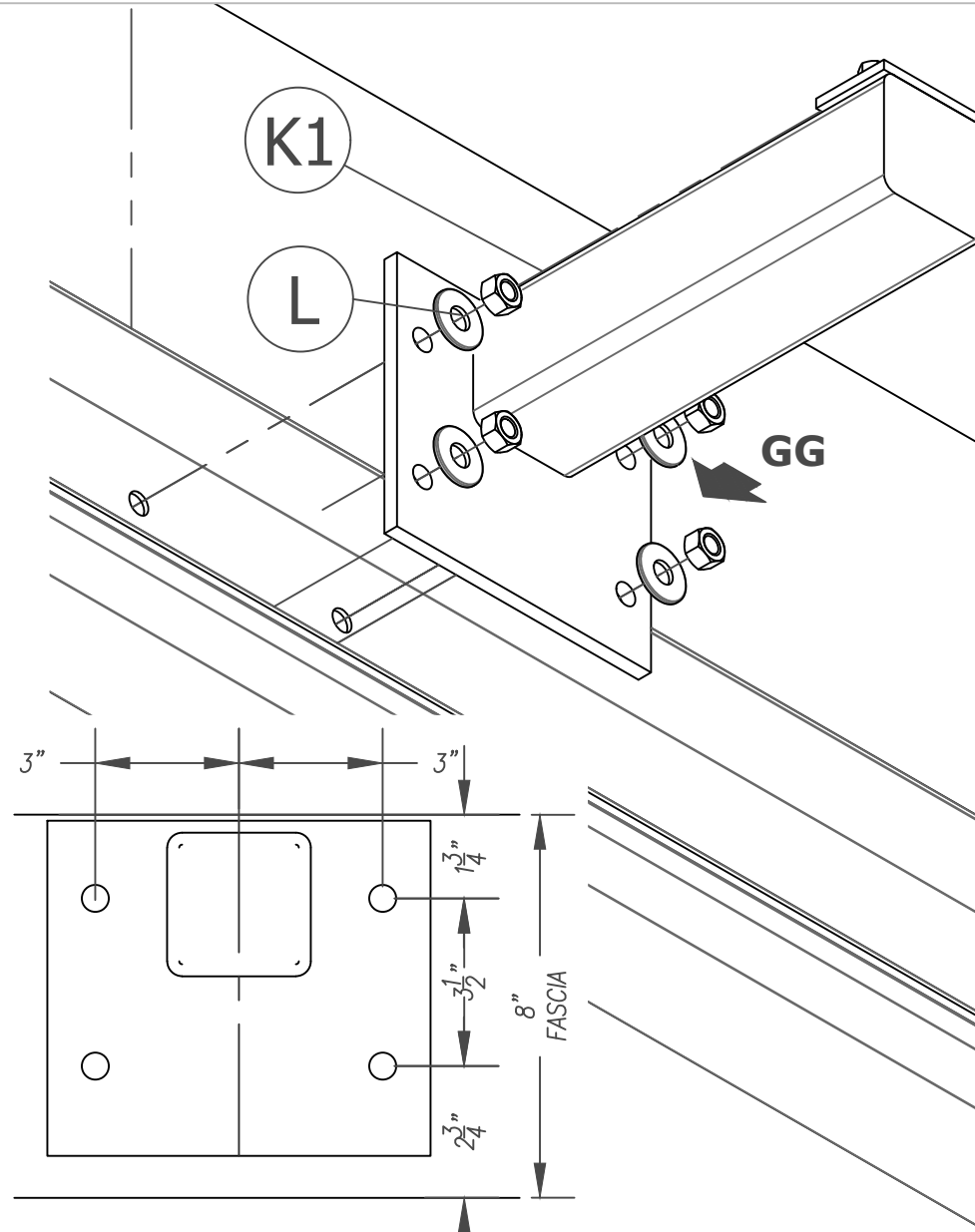
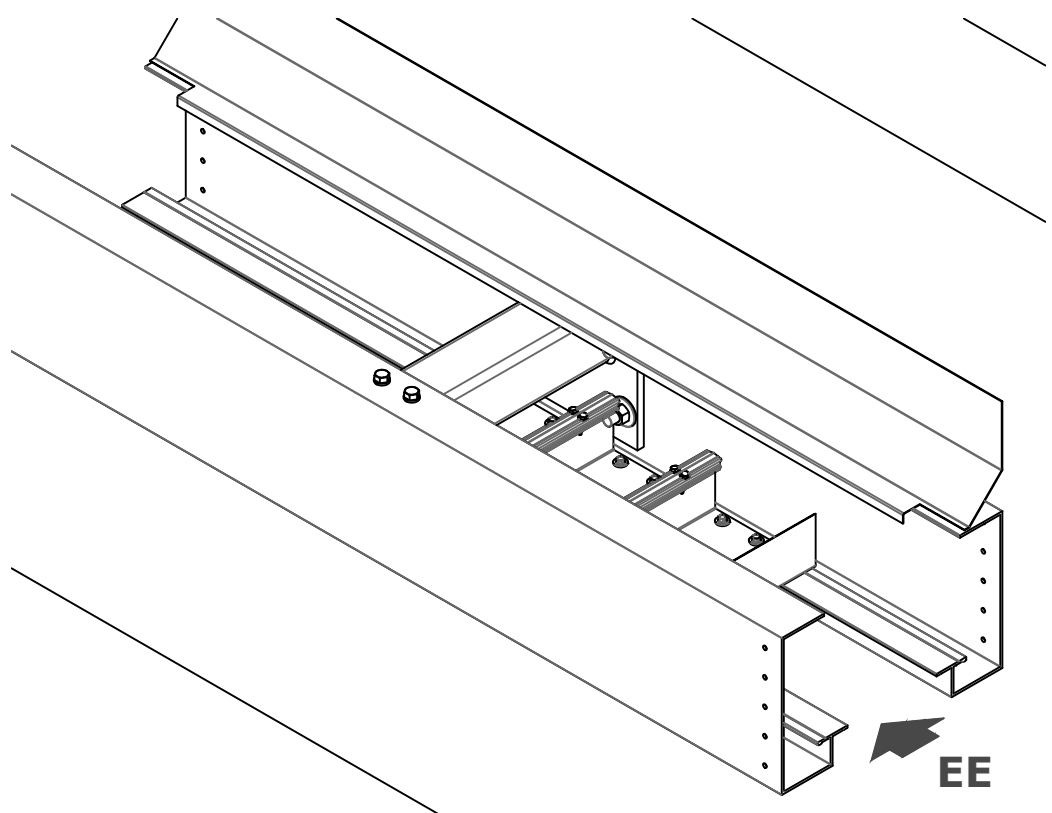
OPTION: Fascia Splice (continued):
a. On long canopies, fascia runs may be fabricated in shorter sections, due to length or handling restrictions, and are assembled on site.
b. Fascia pieces are preassembled with 1 1/2" x 1 1/2" angles at splice location.

When fascia "breaks" at hanger beams (less preferred):

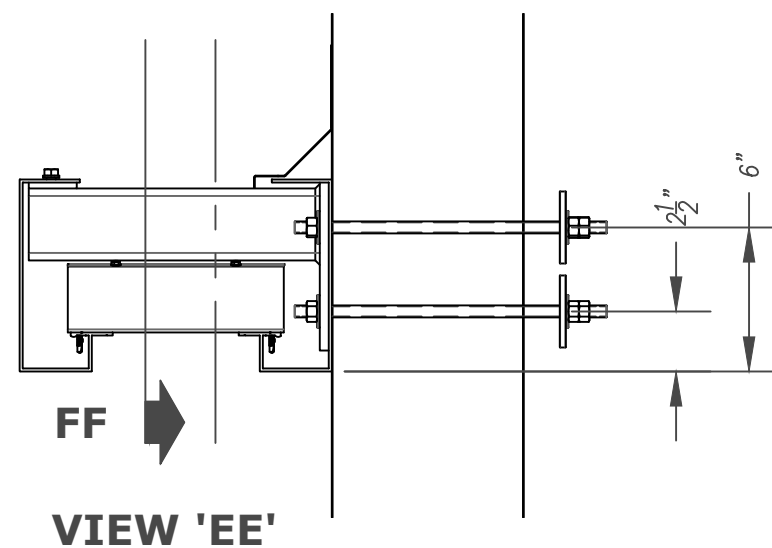
- f.** Mate **REAR** fascia pieces (J) using 3/8" machine bolt assembly (P) to draw joint angles together for a tight splice.
- g.** Clamp and drill 7/16" holes through **REAR** fascia (J) top lip and hanger beam (K) top flange and fasten beam underneath top lip of fascia (J) using (2) 3/8" machine bolt assemblies (P) to join fascia pieces.
- h.** Hang fascia assembly on wall bolts.
- i.** Install beam/clip assembly on wall bolts, sandwiching fascia between wall and beam.
- j.** On **FRONT** fascia, follow same procedure as in (f.) above, assuring fascia pieces butt together.
- k.** Fasten **FRONT** fascia to hanger beam per (g.) above, EXCEPT offset fascia face 3/8" forward of front of beam.
- l.** Seal in joint band and joint angles at all fascia breaks.



K1 TS3X3X $\frac{1}{4}$ " HANGER TUBE
ON PL8X7X $\frac{1}{2}$ " MOUNTING PLATE



VIEW 'GG'

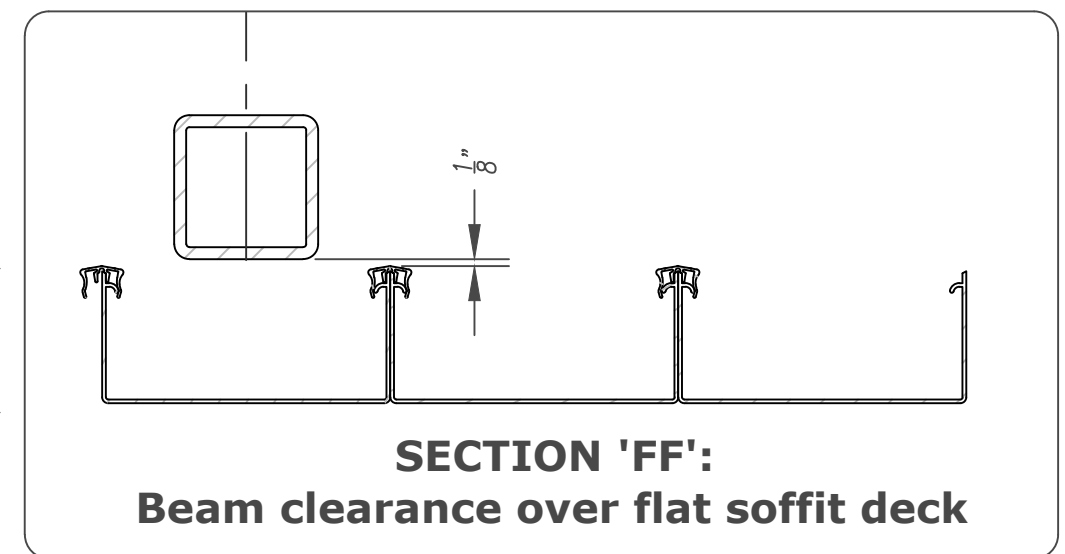


VIEW 'EE'

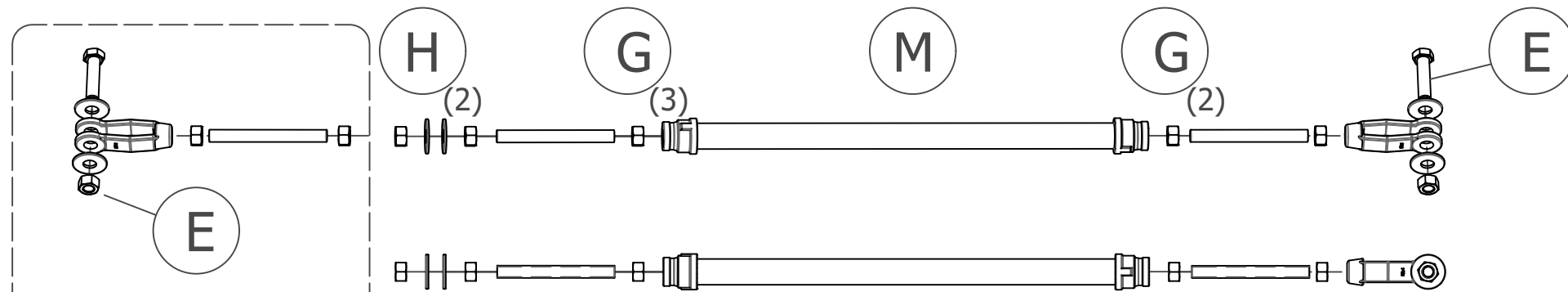
OPTION: Cantilever Tube Hanger (no hanger rod):

- a.** On some canopy applications where overhead connection, i.e. hanger rod, may not be possible or desirable, a "cantilever" support system is then used. Mapes supplies a steel tube hanger beam assembly for these situations.
- b.** As per Step 1-a) & -b) on page 3, use hanger tube wall plate as template for wall bolt drilling in rear fascia.
- c.** Drill $\frac{11}{16}$ " holes in rear fascia, to correspond to wall anchor layout.
- d.** Hang fascia on wall bolts.
- e.** Fasten hanger tube mounting plate to wall bolts, sandwiching fascia between wall and mounting plate.

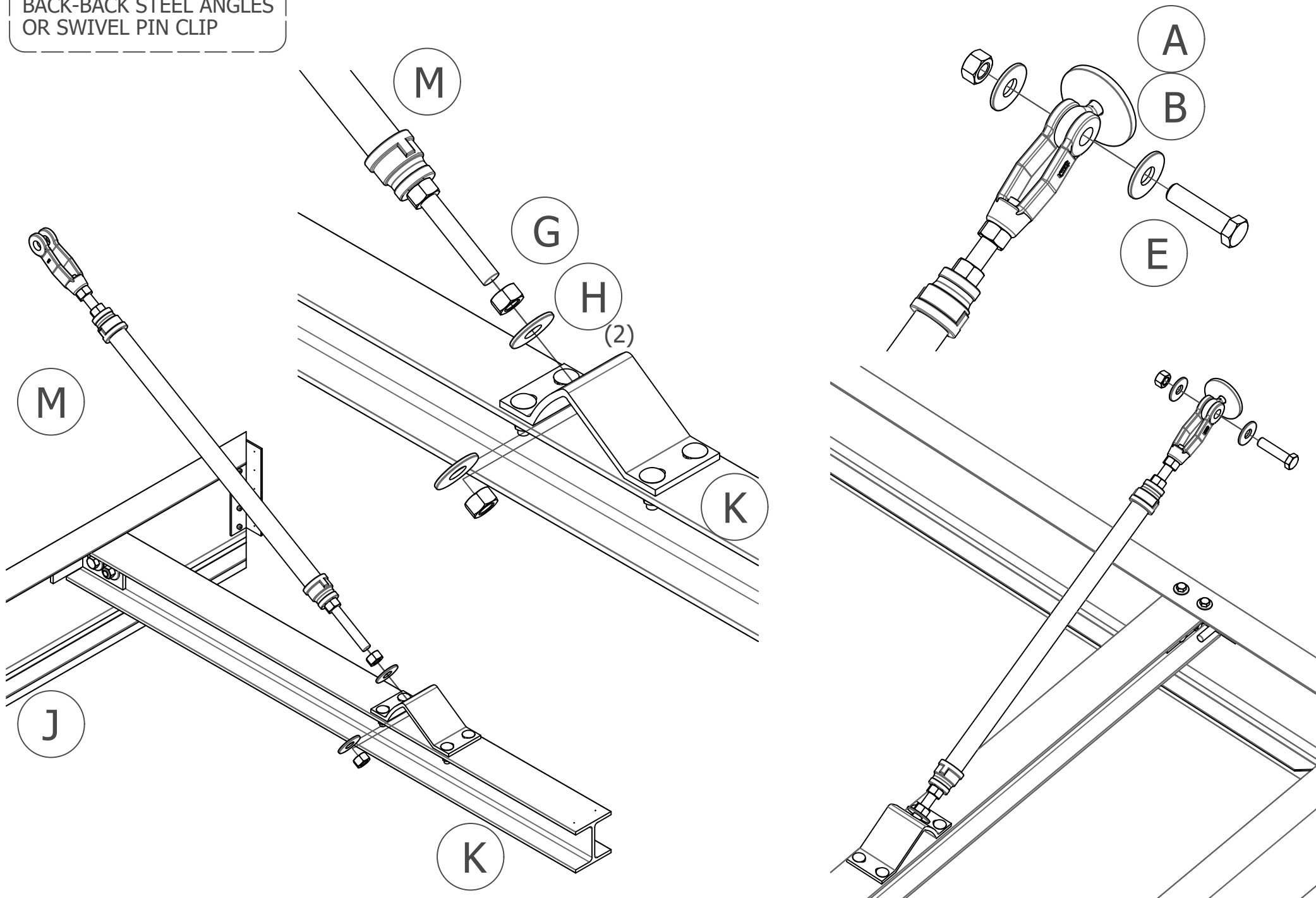
NOTE: For flat soffit type deck, Mapes hanger beam layout attempts to center beam between vertical ribs of deck assembly. When deck rib/snap cap occur under beam, there is minimal clearance.



SECTION 'FF':
Beam clearance over flat soffit deck

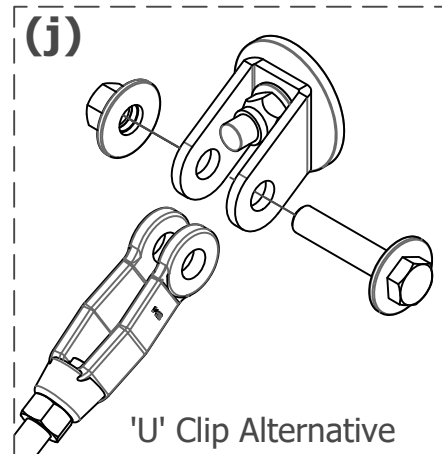
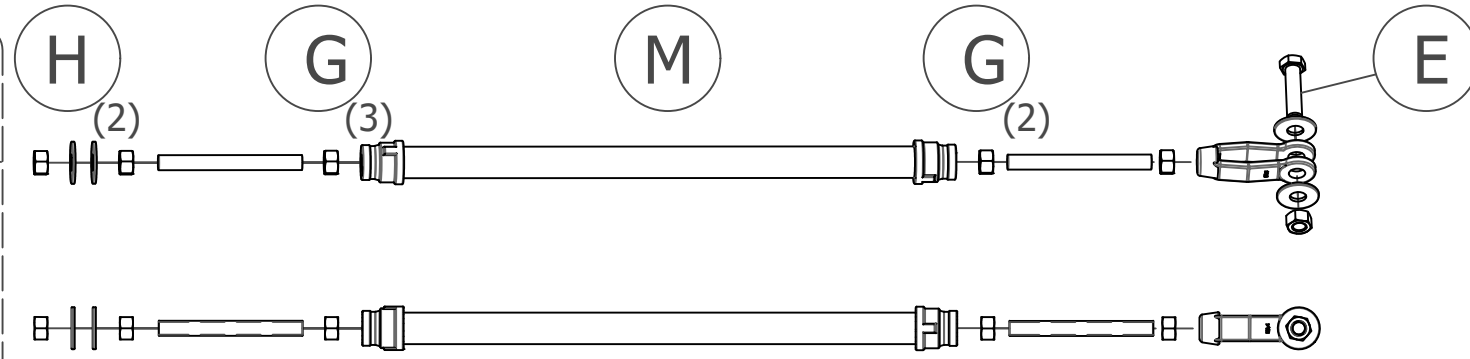
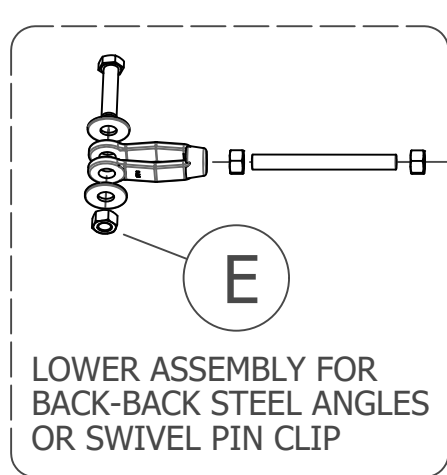


LOWER ASSEMBLY FOR
BACK-BACK STEEL ANGLES
OR SWIVEL PIN CLIP

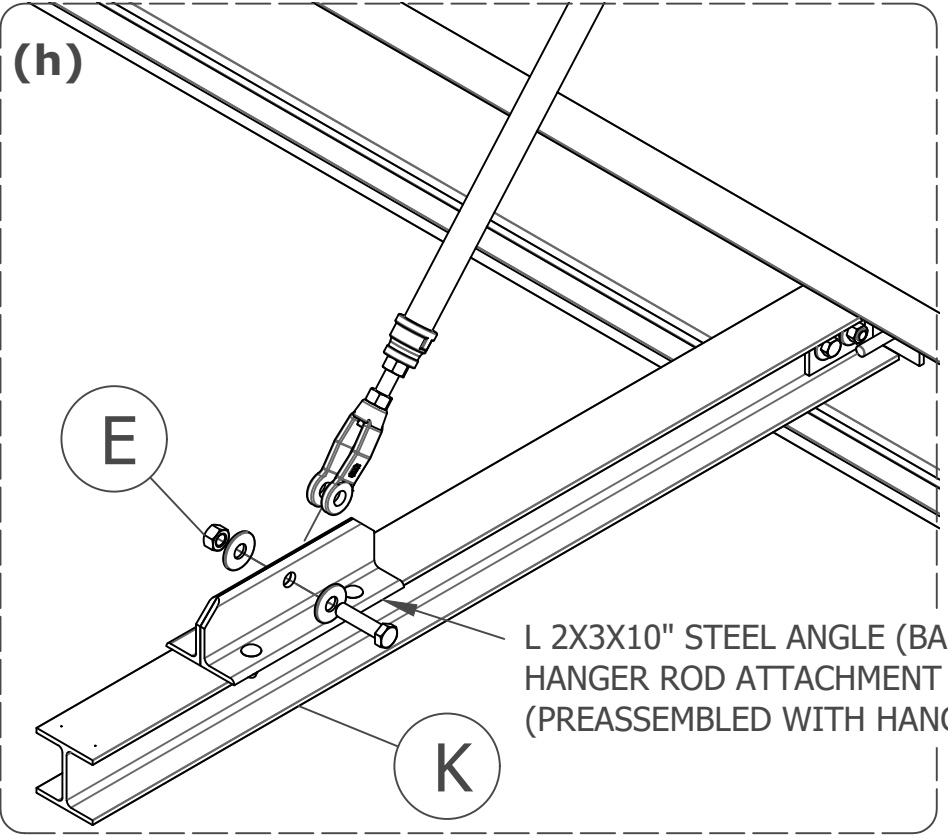


3. Assemble Back Fascia, Hanger Beams and Hanger Rods (CONTINUED)

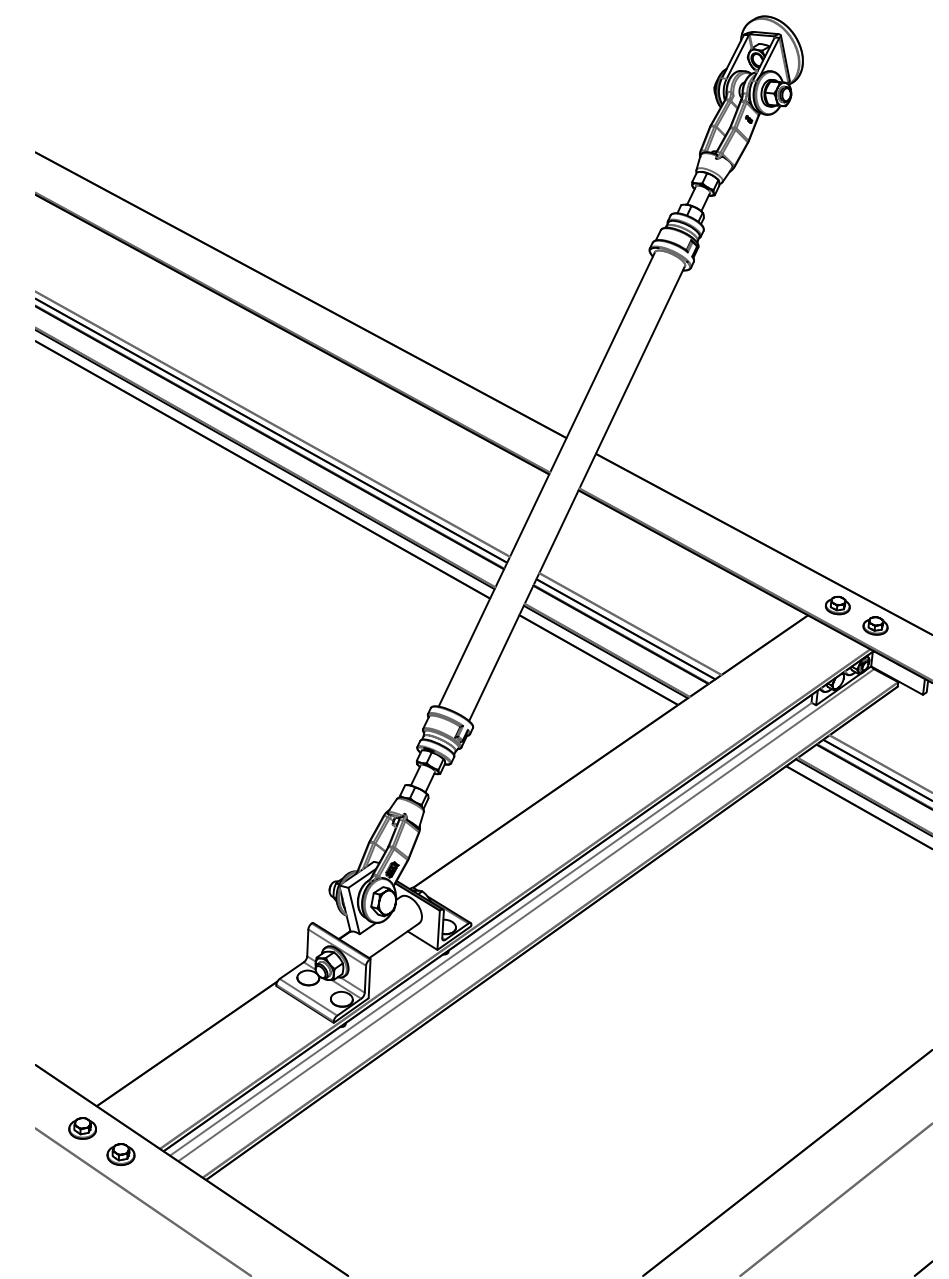
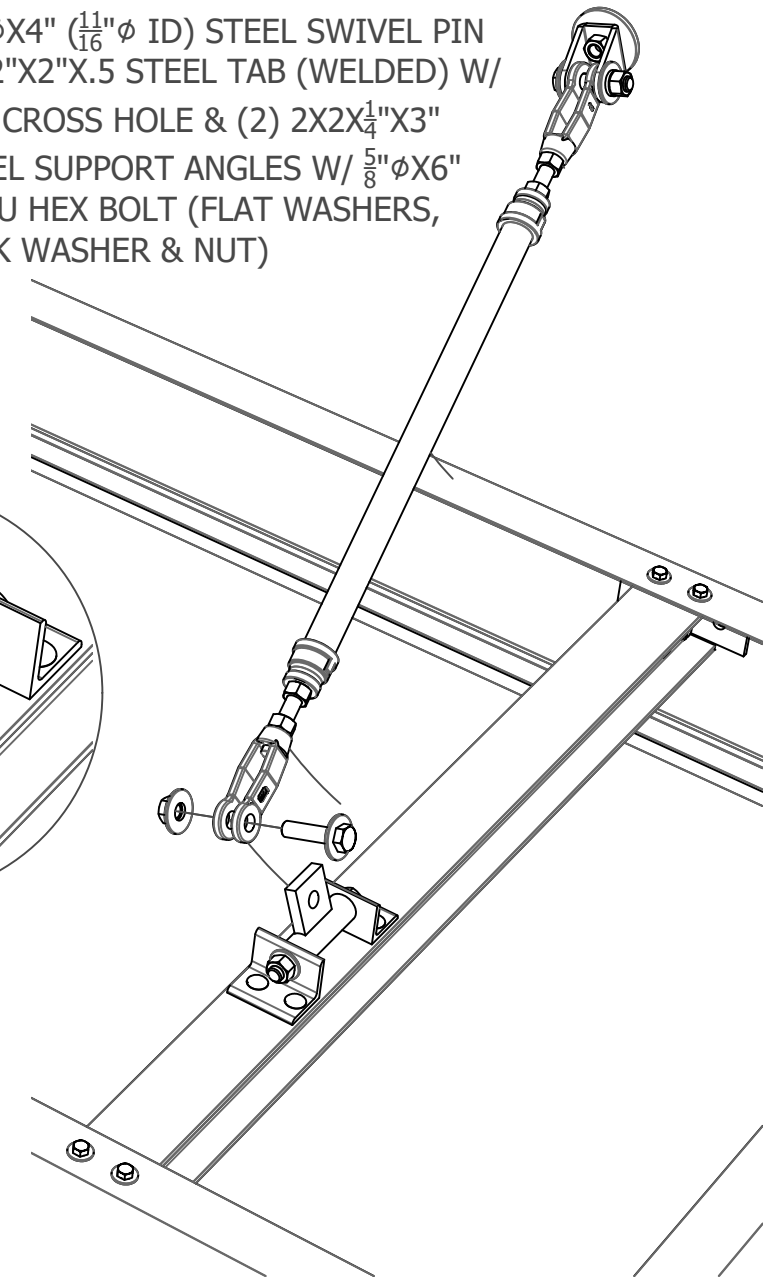
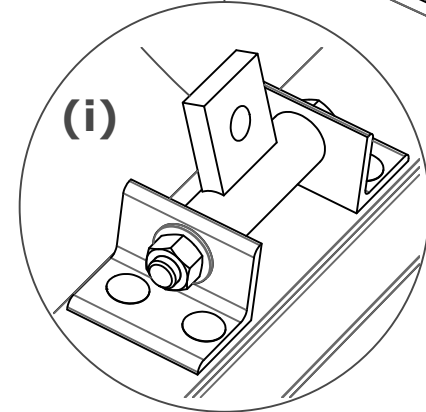
- e) Hanger pipe and related hardware are preassembled (M).
- f) Attach the hanger rod (M) to the front clip on the I-beam (K), w/ (2) 5/8" flat washers (H), and (3) 5/8" nuts (G).
- g) Attach hanger rods (M) to upper wall connection w/ 5/8" x 2 1/2" bolt assembly (E).
- h) Alternate front connection:** If required by engineering to meet local codes, and/or hanger rod rise angle is greater than 45° off horizontal, front clip is assembled from steel angles (next page).
- i) Alternate front connection:** When hanger rod upper and lower connections are not in line, a SWIVEL PIN front clip permits more "range of motion" (next page).
- j) Alternative upper connection:** When required, bent steel 'u' clip w/ 5/8" x 3" bolt assembly (next page) instead of eyebolt.



1 1/4" ϕ X 4" (11/16" ϕ ID) STEEL SWIVEL PIN W/ 2" X 2" X .5 STEEL TAB (WELDED) W/ 11/16" ϕ CROSS HOLE & (2) 2 X 2 X 1/4" X 3" STEEL SUPPORT ANGLES W/ 5/8" ϕ X 6" THRU HEX BOLT (FLAT WASHERS, LOCK WASHER & NUT)



L 2X3X10" STEEL ANGLE (BACK TO BACK) HANGER ROD ATTACHMENT SUPPORT (PREASSEMBLED WITH HANGER BEAM)

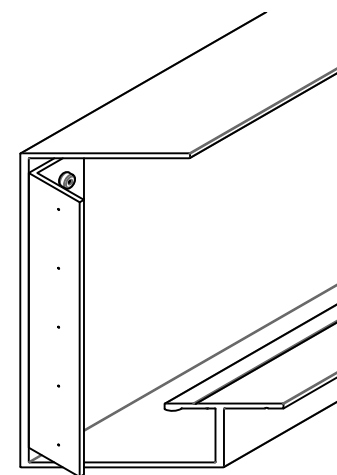
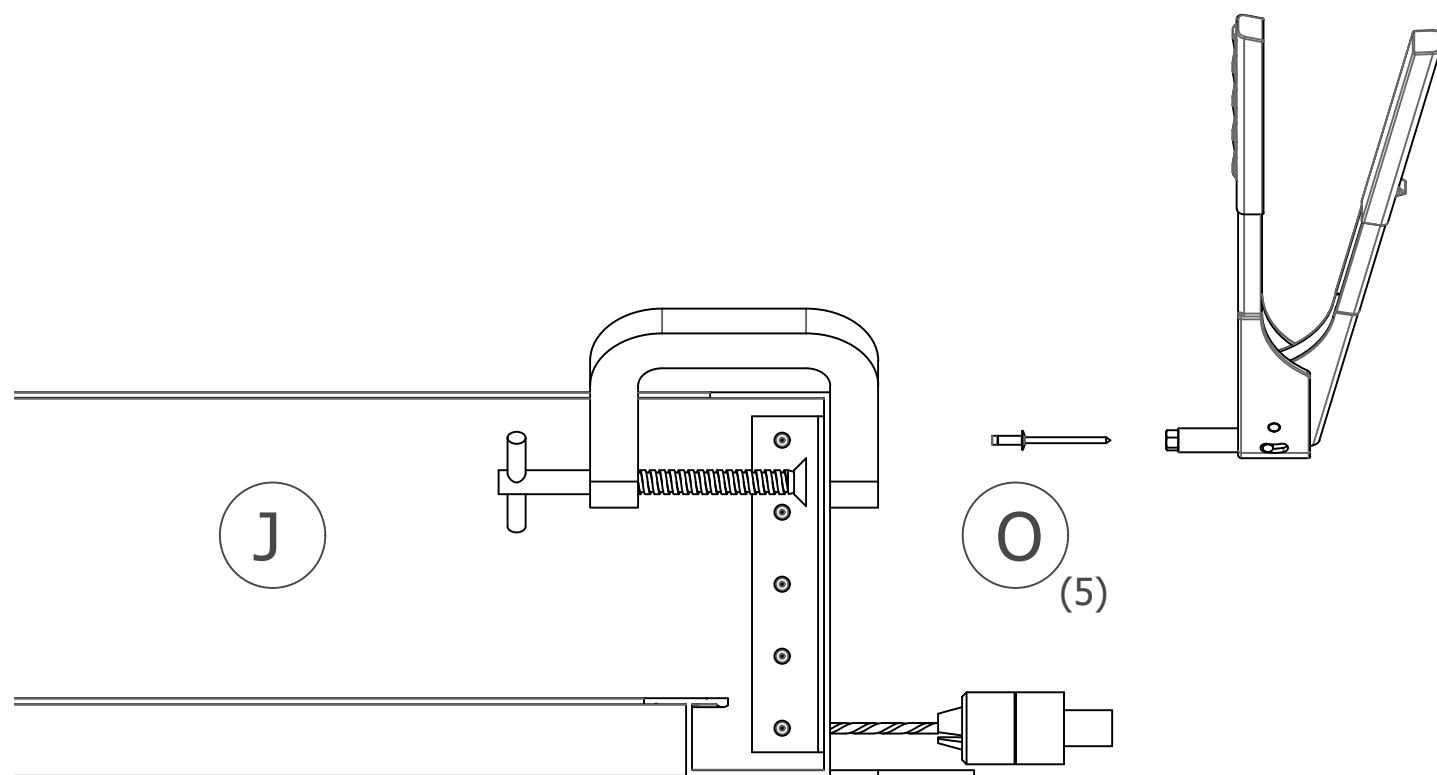
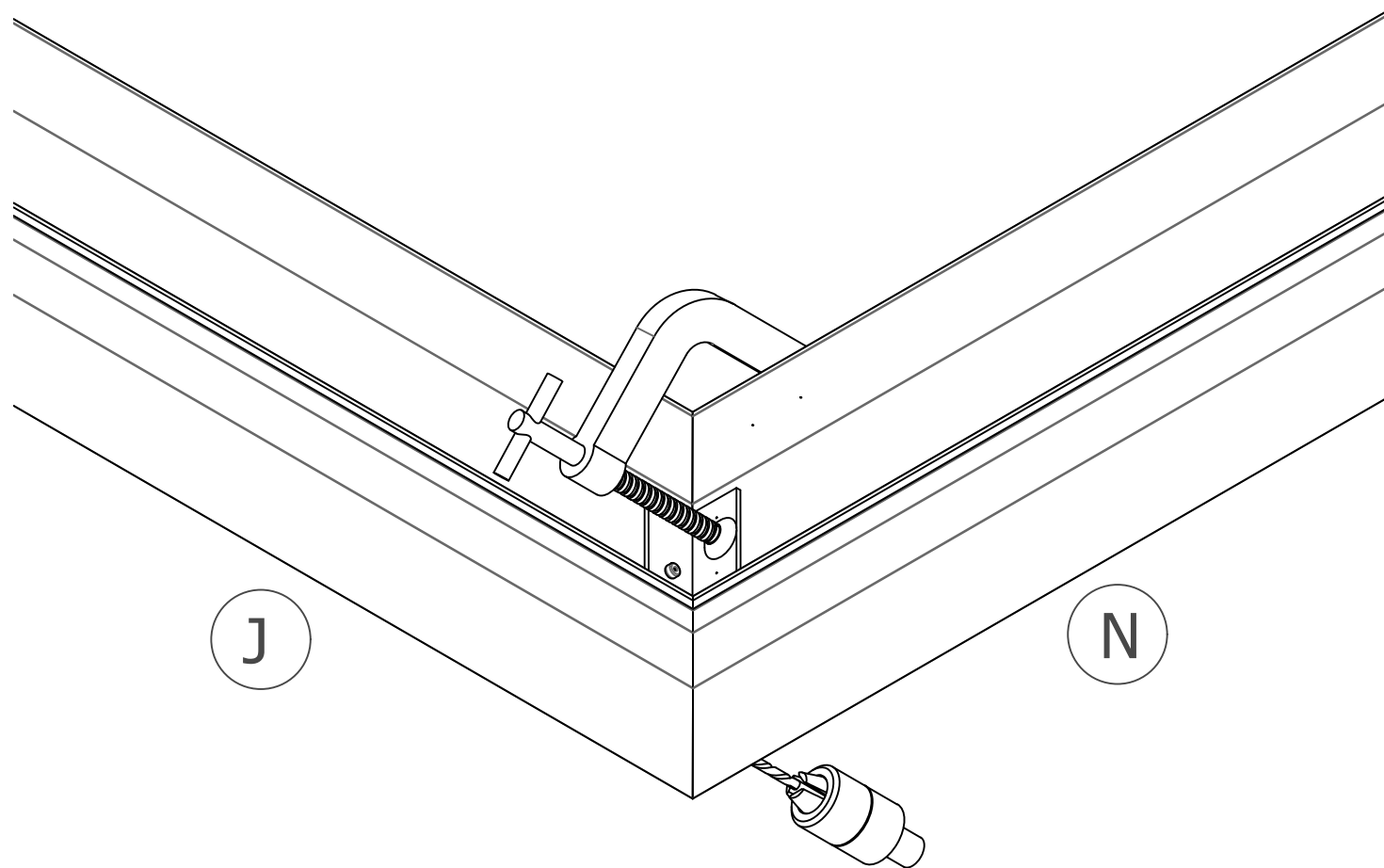


3. Hanger Rods (CONTINUED)

h) Alternate front connection: If required by engineering to meet local codes, and/or hanger rod rise angle is greater than 45° off horizontal, front clip is assembled from steel angles.

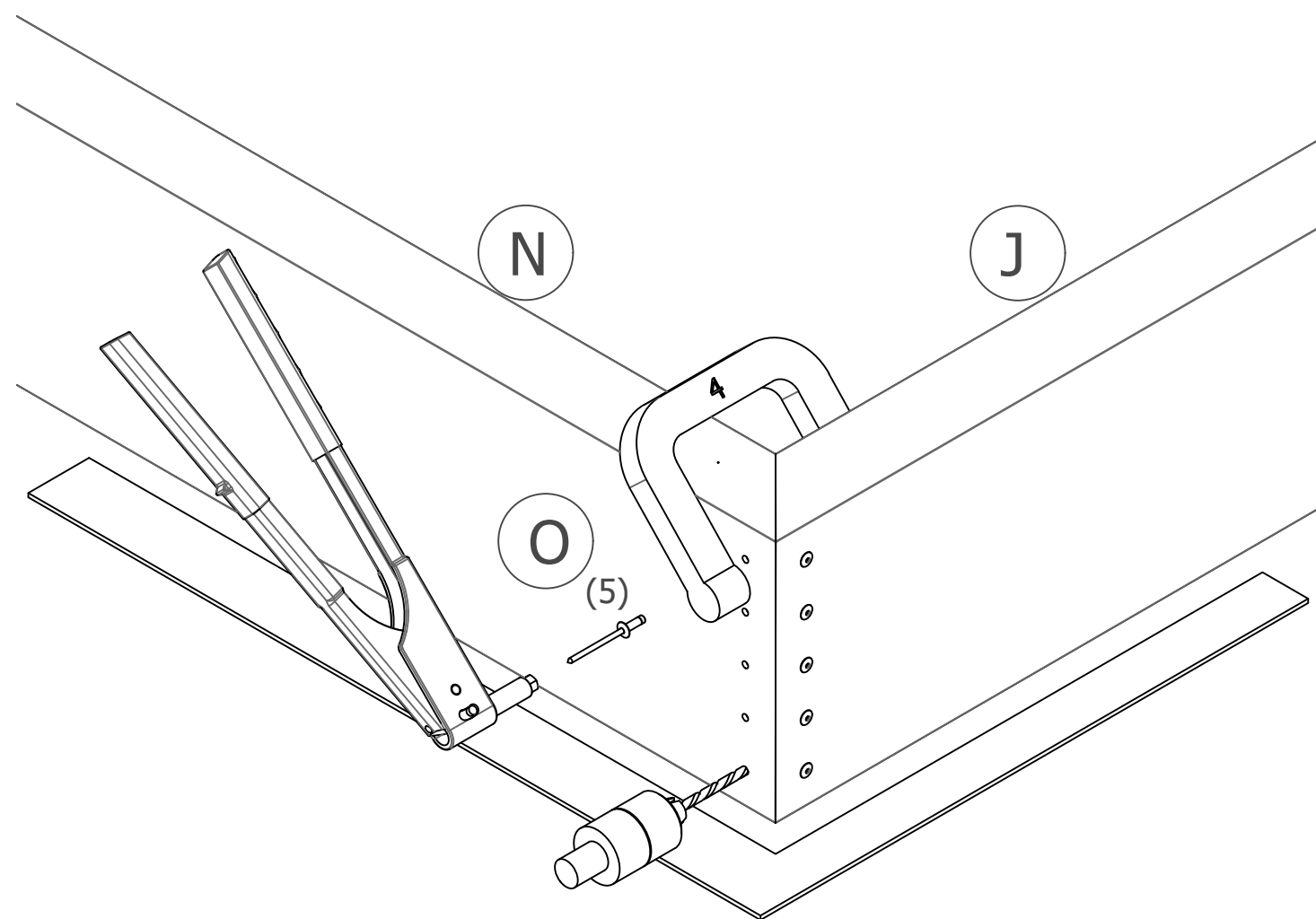
i) Alternate front connection: When hanger rod upper and lower connections are not in line, a SWIVEL PIN front clip permits more "range".

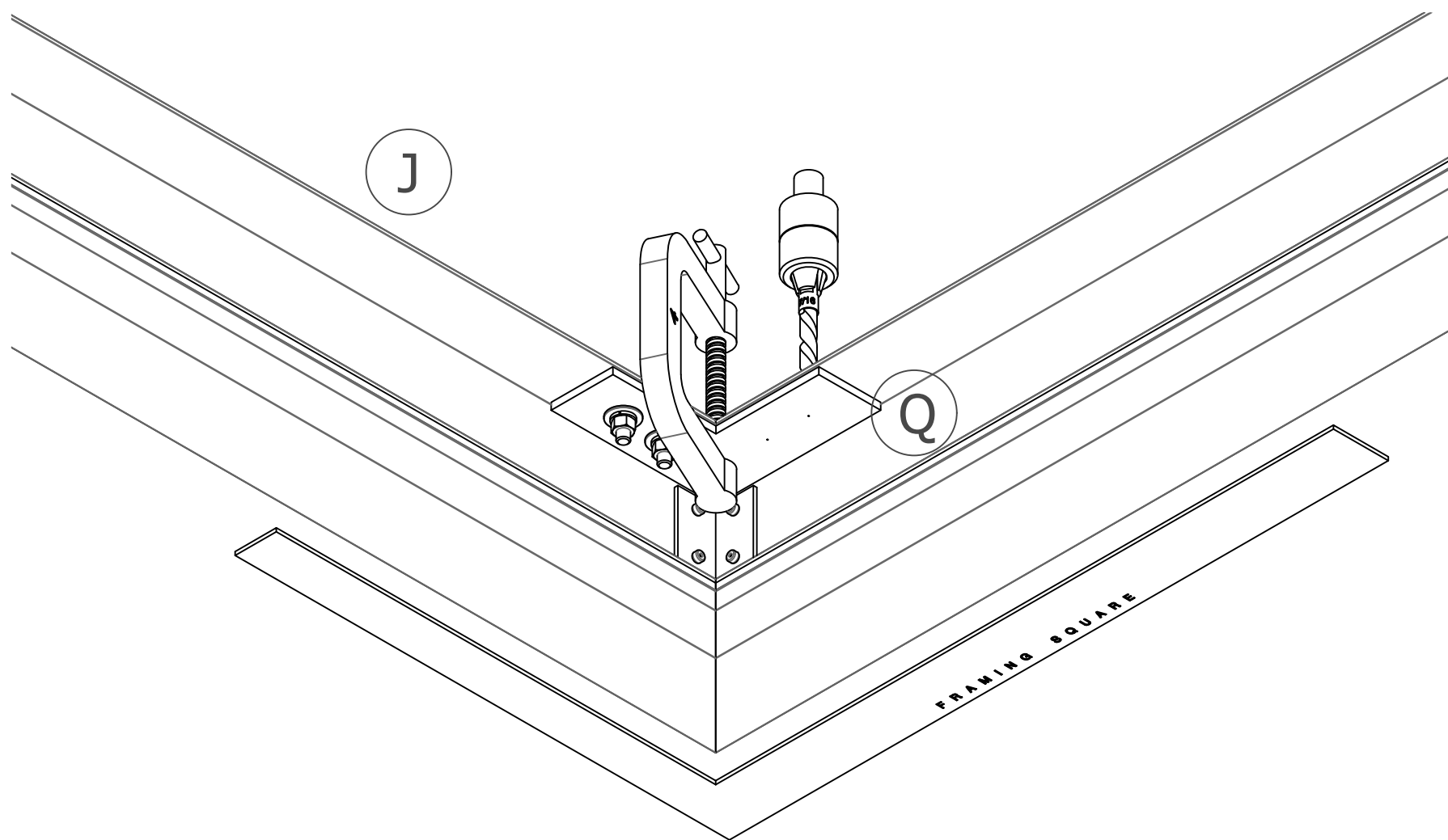
j) Alternative upper connection: When required, bent steel 'u' clip w/ 5/8" x 3" bolt assembly instead of eyebolt.



4. Assemble Fascia

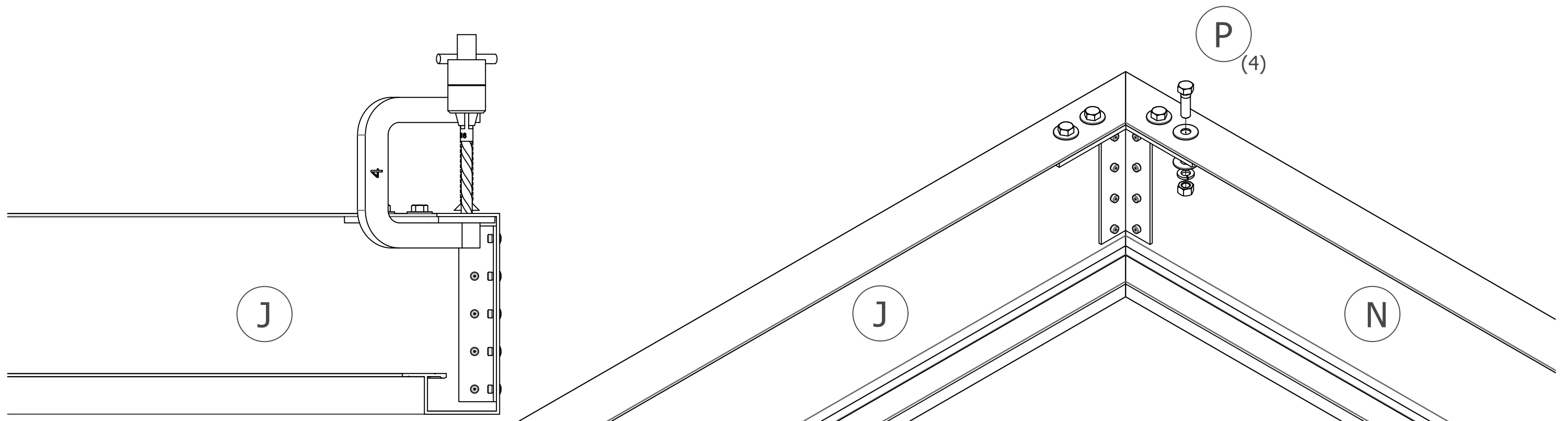
- a) 1 1/2" x 1 1/2" inside corner braces are already assembled to fascia on 1 side (J).
- b) Clamp together side (N) and wall fascia (J) pieces to make corner. Drill through factory holes in side fascia into 1 1/2" x 1 1/2" angle and use (5) 3/16" self-sealing rivets (O).





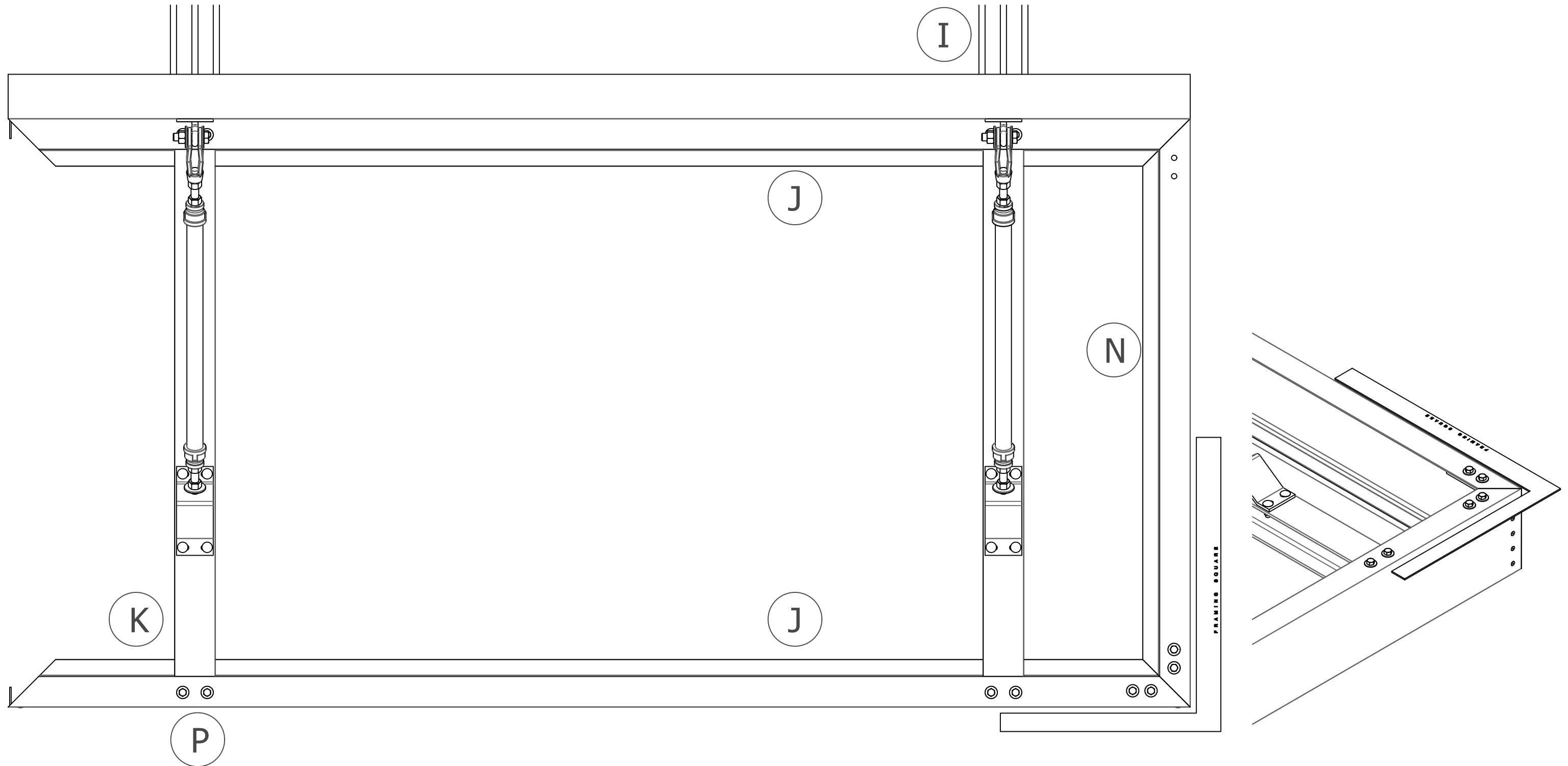
4. Assemble Fascia (CONTINUED)

c. Clamp and drill 7/16" holes through fascia top lip and 6" x 6" corner plates (Q) and fasten corner plate underneath top lip of fascia (J)(N) using (4) 3/8" machine bolt assemblies (P) to complete corner.



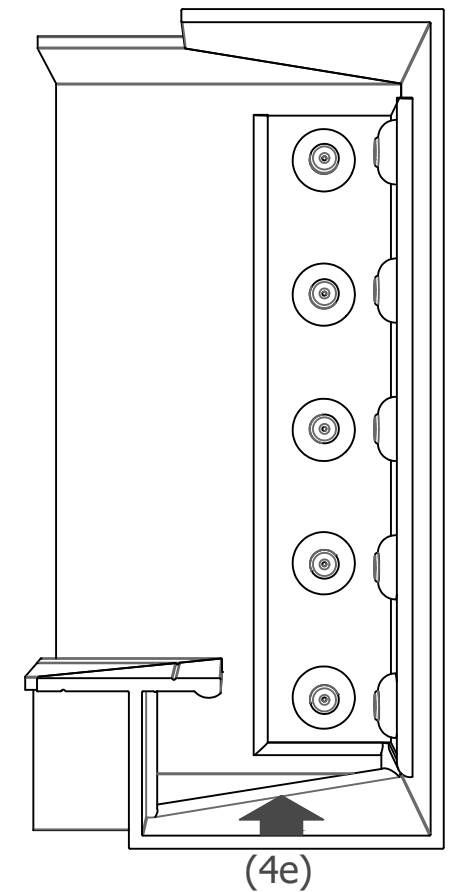
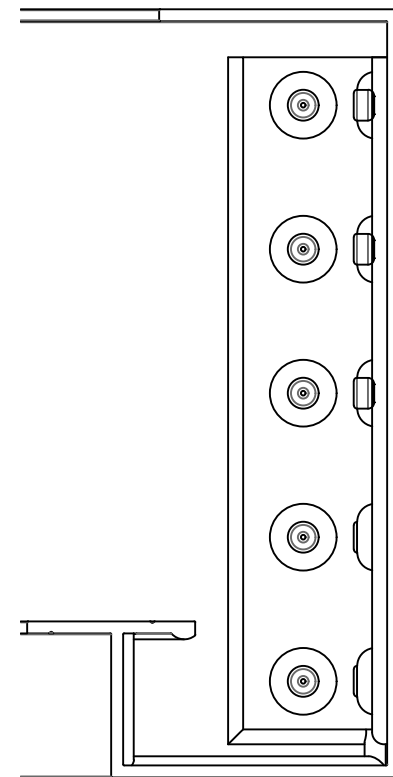
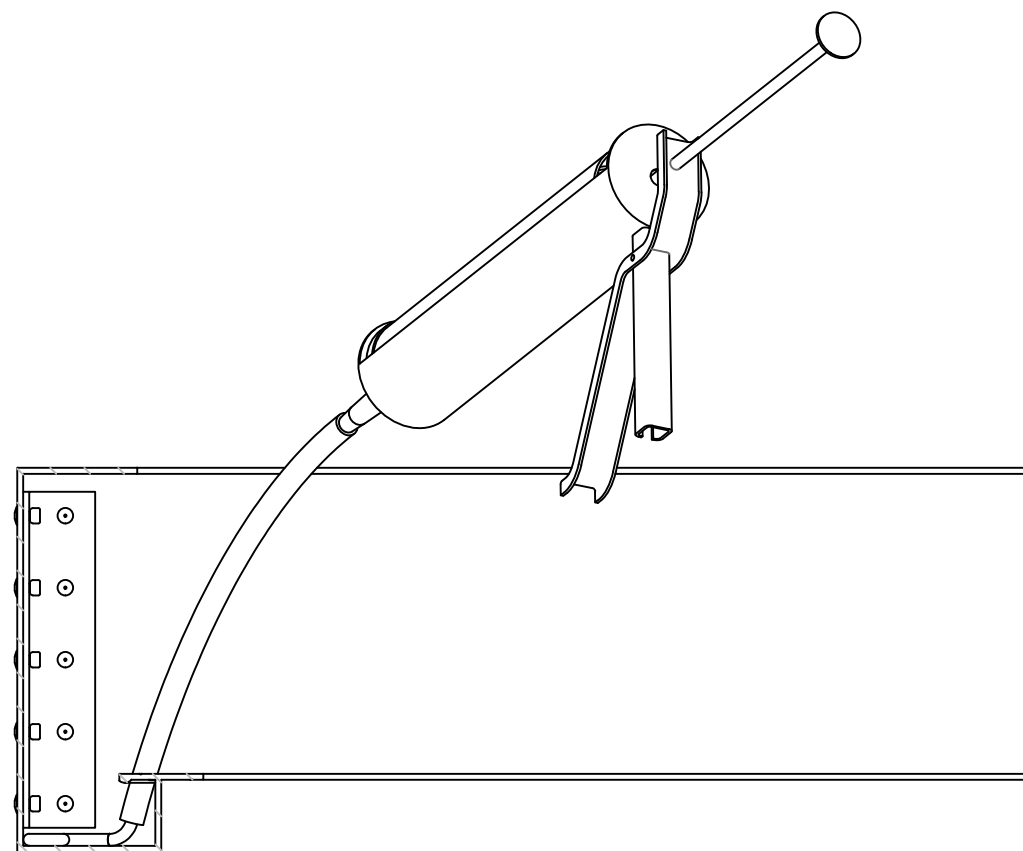
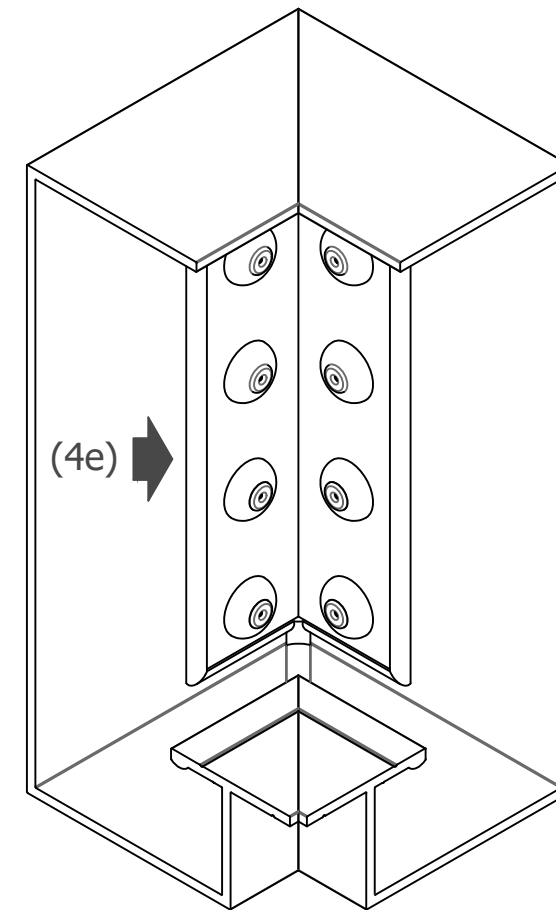
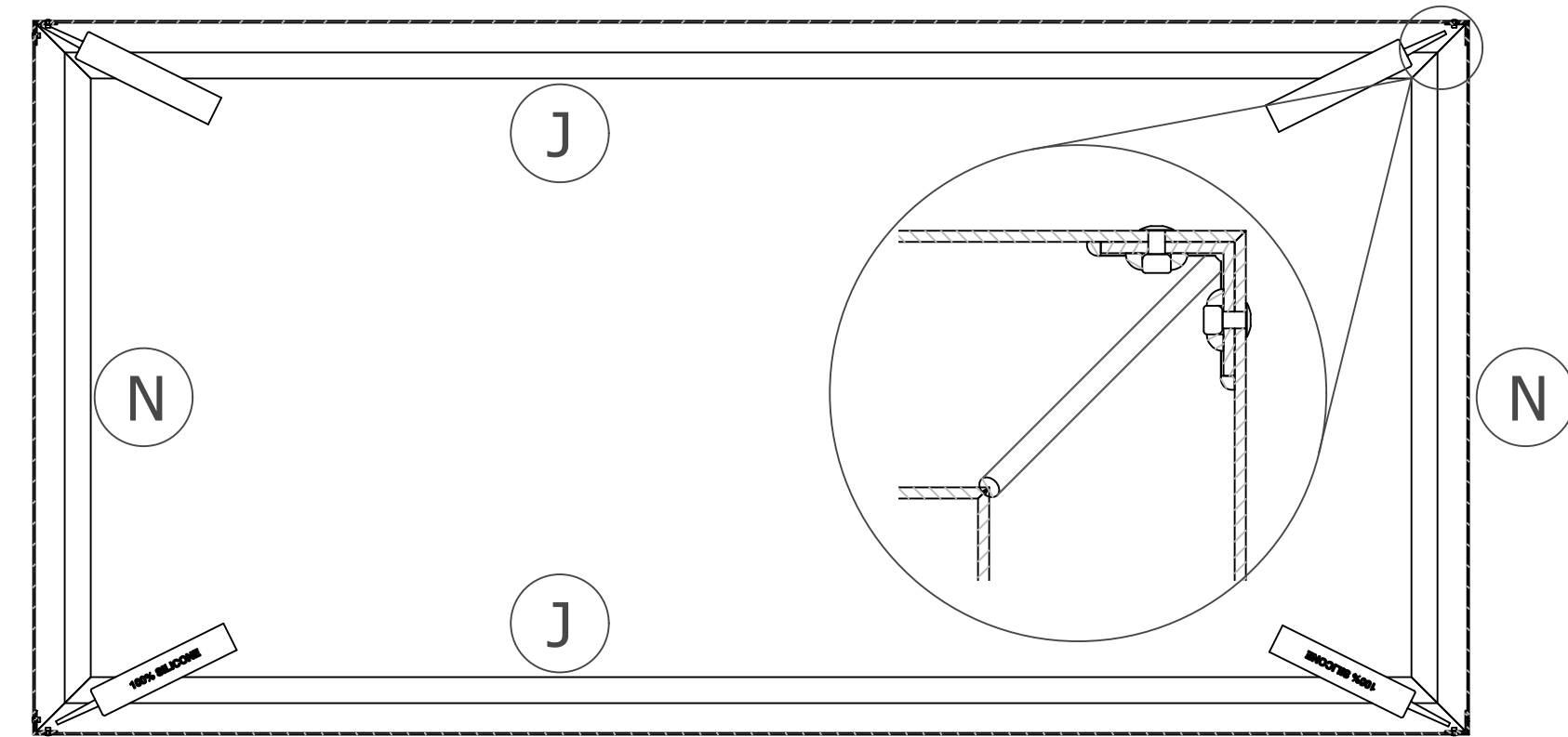
4. Assemble Fascia (CONTINUED)

d) Attach front of fascia (J) onto I-beam (K) w/ 3/8" machine bolts (P), and lock into place (make sure its square).

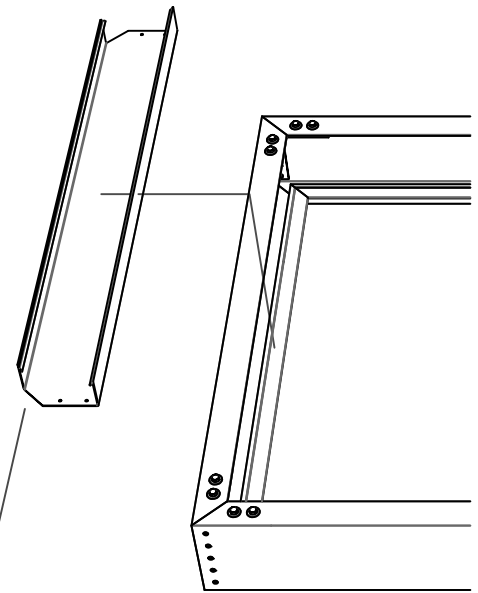
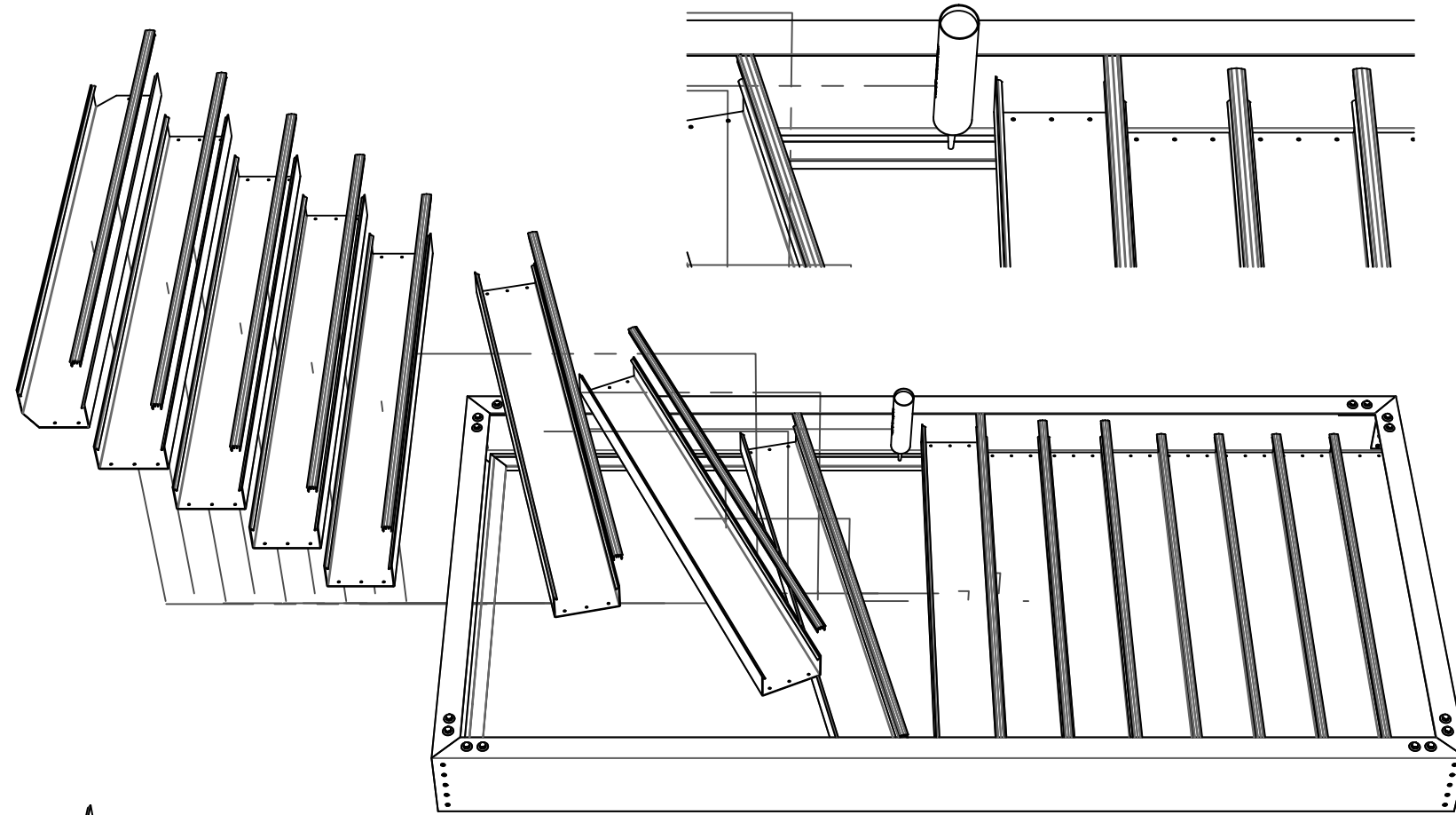


4. Assemble Fascia (CONTINUED)

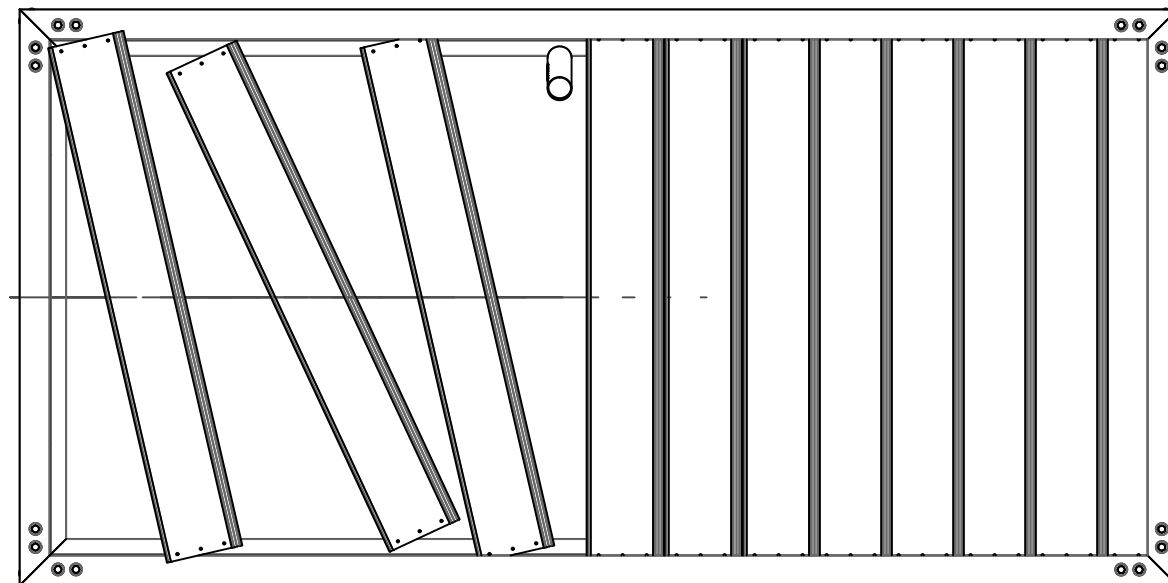
e) Apply continuous sealant to either side of the corner angle, across bottom of trough at seam and back up to fascia inside lip. Use flexible hosing to direct silicone into tight corners. Seal all rivets.



Canopy Assembly Instructions: Flat Soffit Hanger Rod

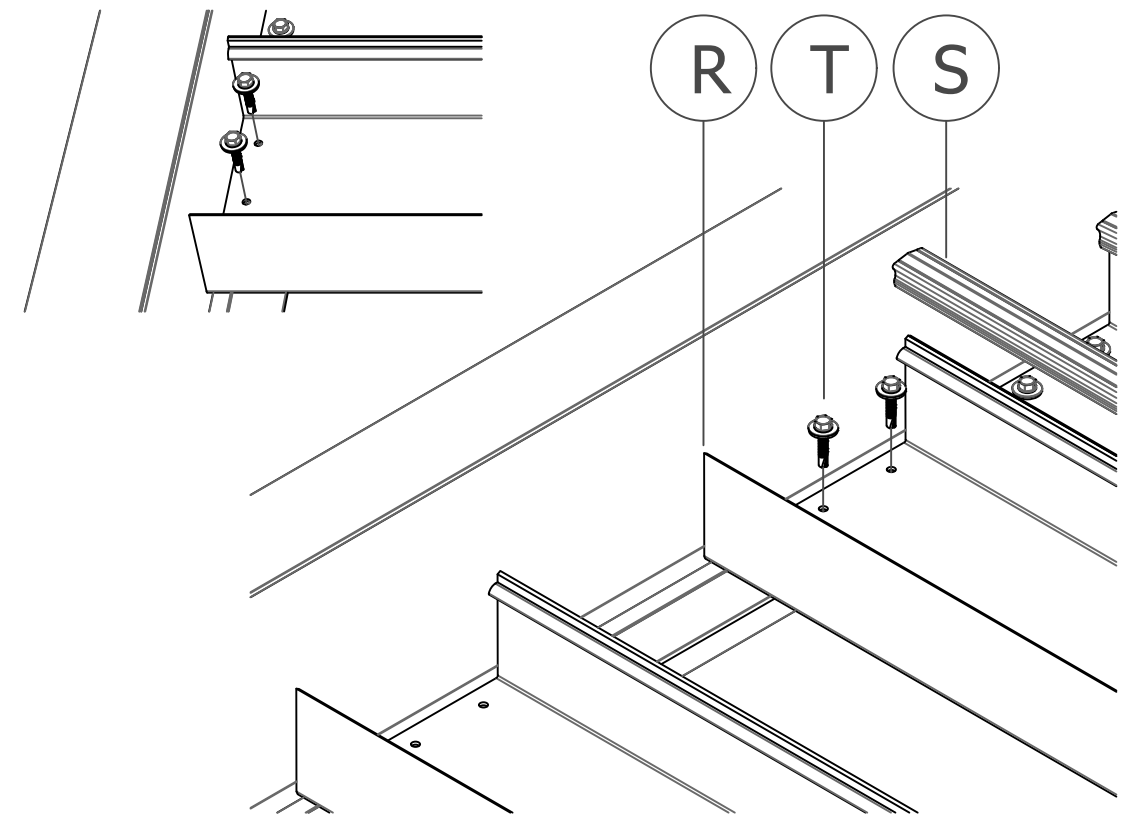


*NOTE:
TO APPLY SEALANT, OR TO
CLEAR DEBRIS FROM TROUGH,
DECK CORNER MAY BE
FIELD-NOTCHED BY INSTALLER

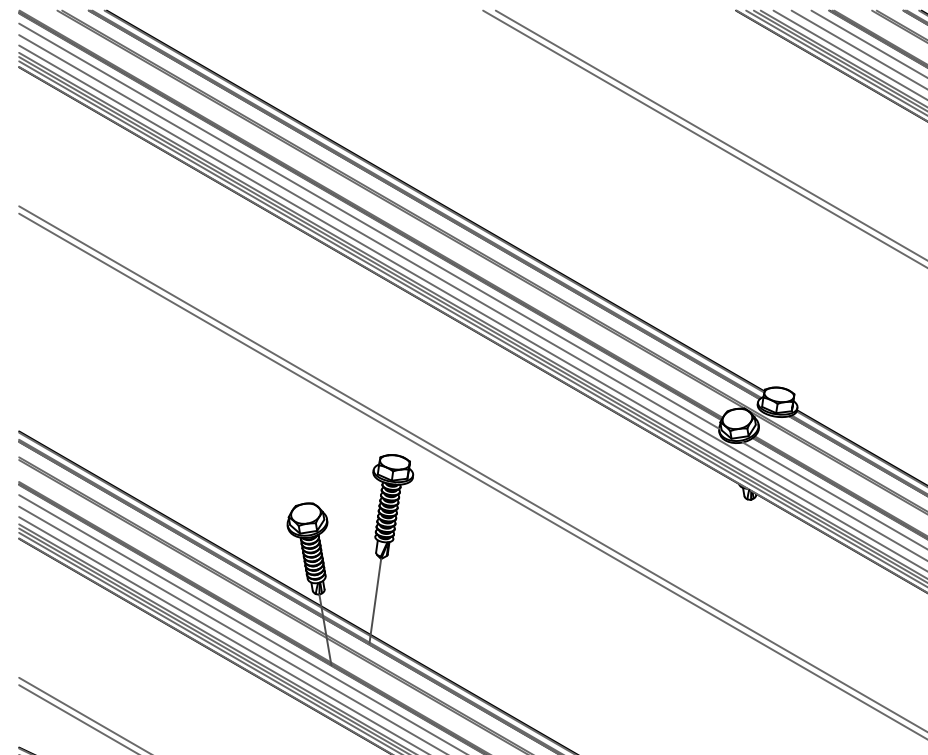
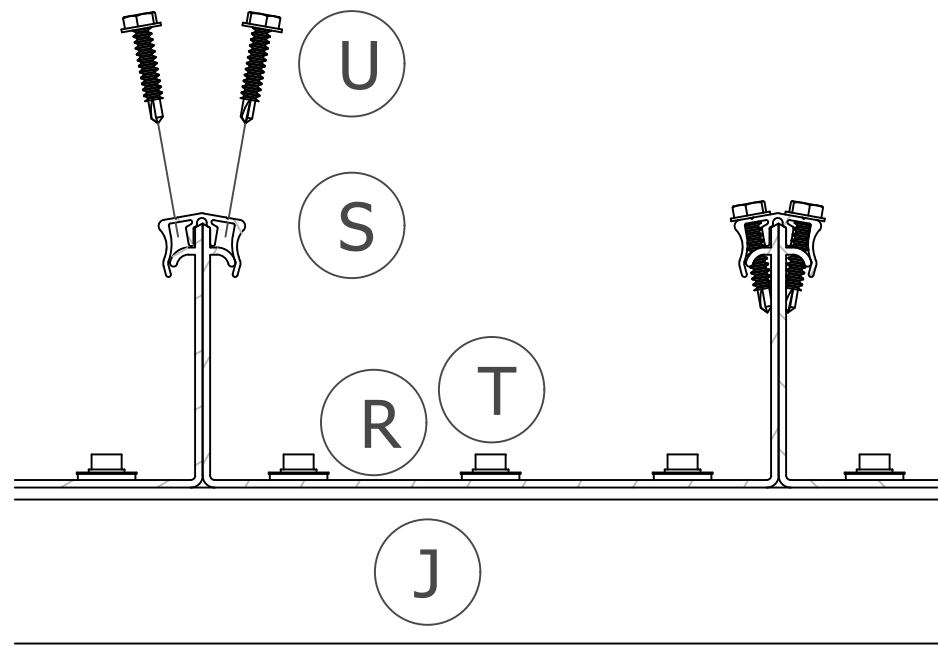
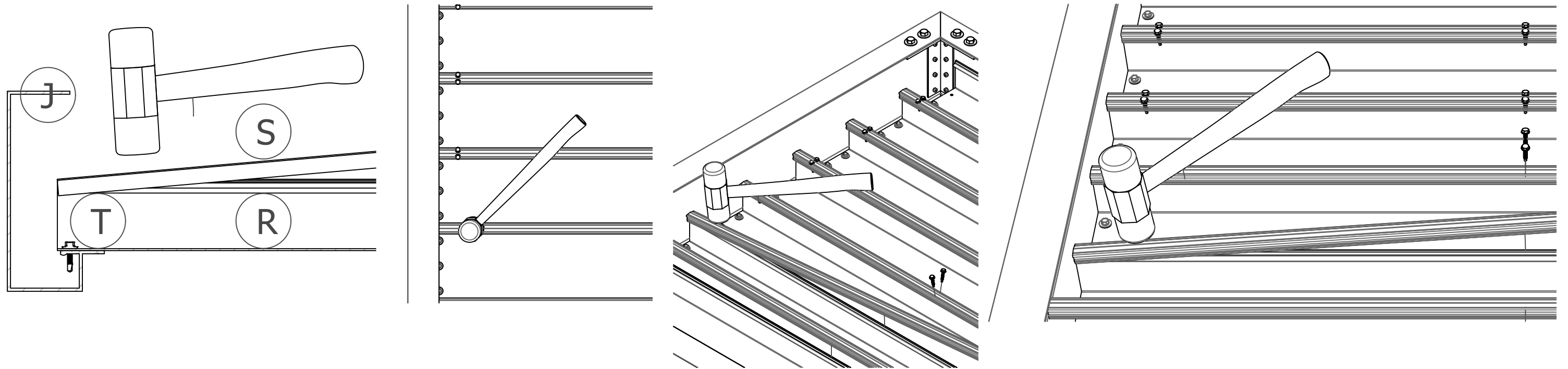


5. Install Decking

- Assemble (per #4c & d) last side fascia piece (N) to complete fascia frame. Seal corners per #4e.
- Run continuous sealant along lower fascia lip to be between it and underside of deck when installed. Load deck (R) from top. Rotate each deck piece to slip under top lip of fascia and position on lower fascia lip such that deck extends over inside lip.
- Maneuver decking to match spacing on blueprints. Make sure both ends (of deck) are equal distance from inside of front and rear fascia.
- With (3) #12 x 1 $\frac{1}{4}$ " tek screws (T), fasten decking to fascia (J) using pre-punched holes on lower decking (R).

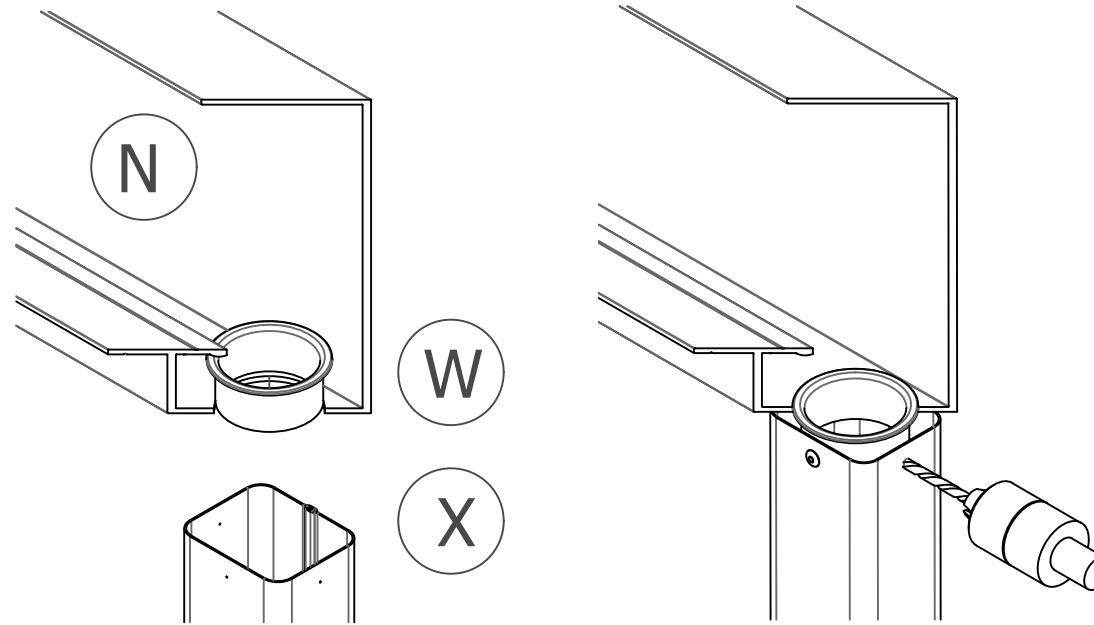
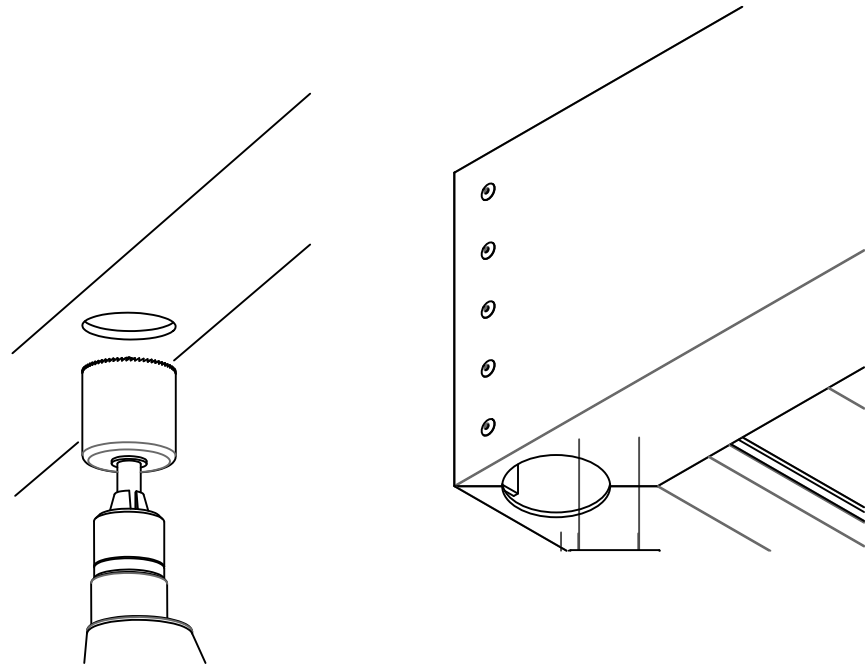


Canopy Assembly Instructions: Flat Soffit Hanger Rod



5. Install Decking (continued)

- e) Using a rubber mallet, put on snap cap (S). (Hammer one end on, then work your way down, hammering every foot until you get the whole piece to snap on).
- f) Apply #10-16 tek screws (U) to snap cap at 24" on center on both sides of the peak. Pay attention when screwing, so screw grabs both snap cap and deck flare, or snap cap might be pushed up. If it does, back out screw (snap cap will go back down) then put screw right back in.



6. Drill Proper Drainage Holes in Fascia, Fascia Extension Assembly (If Applicable)

DRAIN STUB: a) Drill $2 \frac{5}{16}$ " hole in fascia trough at desired drain location and install $2 \frac{1}{4}$ " pressed aluminum drain stub.

* **Mapes recommends at least one (1) drain location for each 175 SF of canopy and each 15' of fascia (gutter) distance.**

DOWNPOUT: b) If using downspout, drill $2 \frac{5}{16}$ " hole in fascia trough for drain stub (*as above*)(W), and attach downspout (X) with downspout elbows and tie-backs using $3/16$ " self-sealing rivets (O). Modifications of drain stub may apply in some instances.

7. Flash and Seal; Adjust Fascia Pitch to Drain

- a) Flashing (Y) provided by Mapes.
- b) Counter flashing and sealant by installer.
- c) Adjust canopy whichever direction you want water to drain, by one (or both) of the following methods: 1) turn the adjusting nuts (G) on the hanger adjustment rods (M), or 2) shim behind rear fascia (J).

