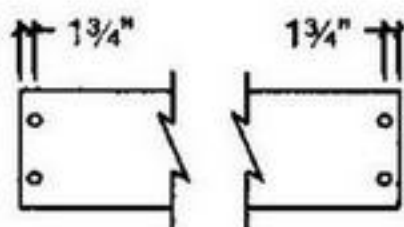


SPECIFICATIONS

PUNCHING PATTERNS FOR CEES AND ZEES

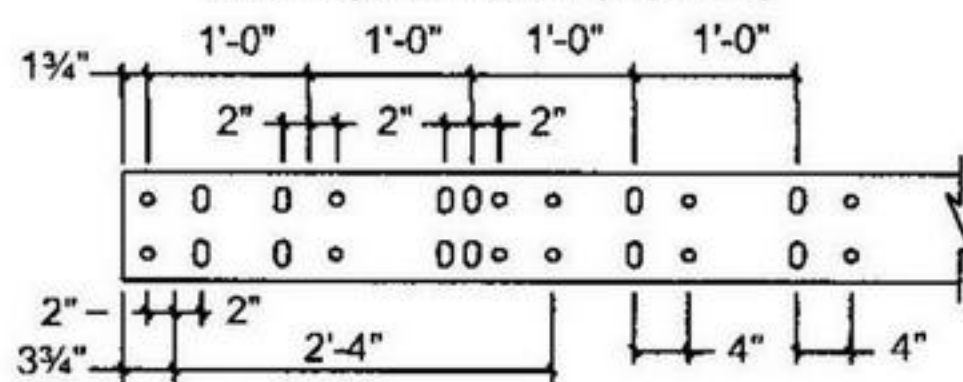
6" Zee or Cee	1"	4"	1"
7" Zee or Cee	1½"	4"	1½"
8" Zee or Cee	2"	4"	2"
9" Zee	2½"	4"	2½"
10" Zee or Cee	3"	4"	3"
11" Zee or Cee	3½"	4"	3½"
12" Zee	4"	4"	4"

Pattern G
Common End



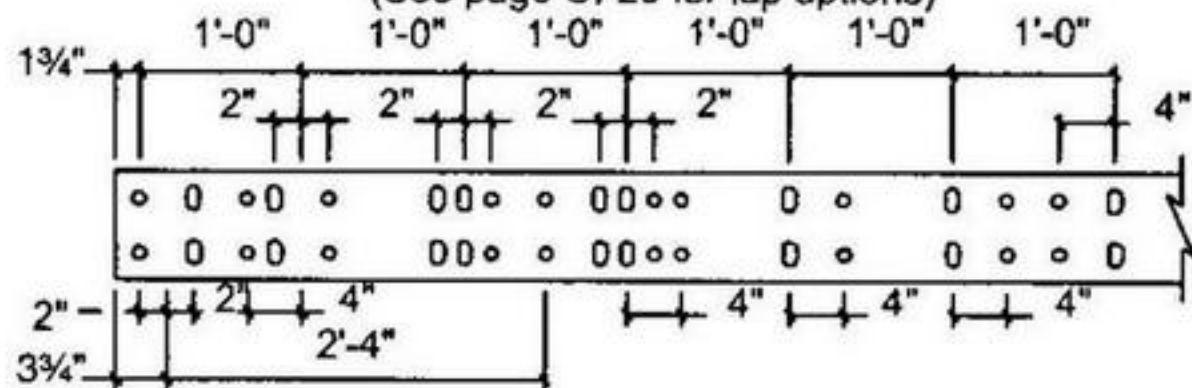
Pattern A

(See page CI-19 for lap options)



Pattern B

(See page CI-20 for lap options)

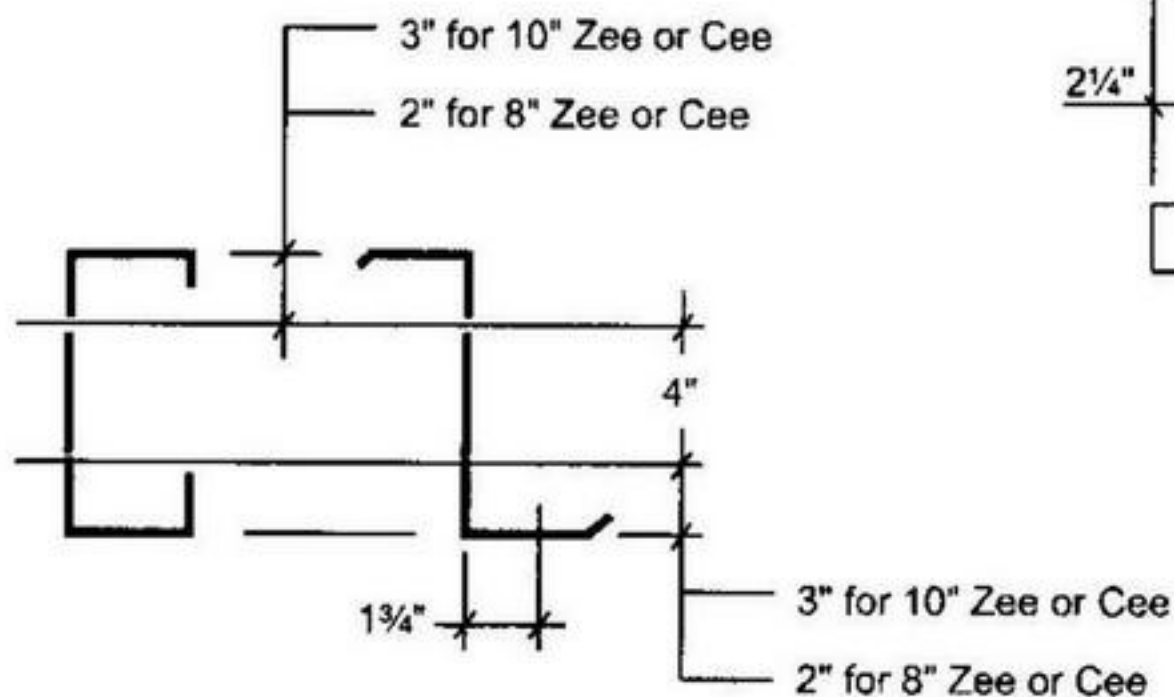
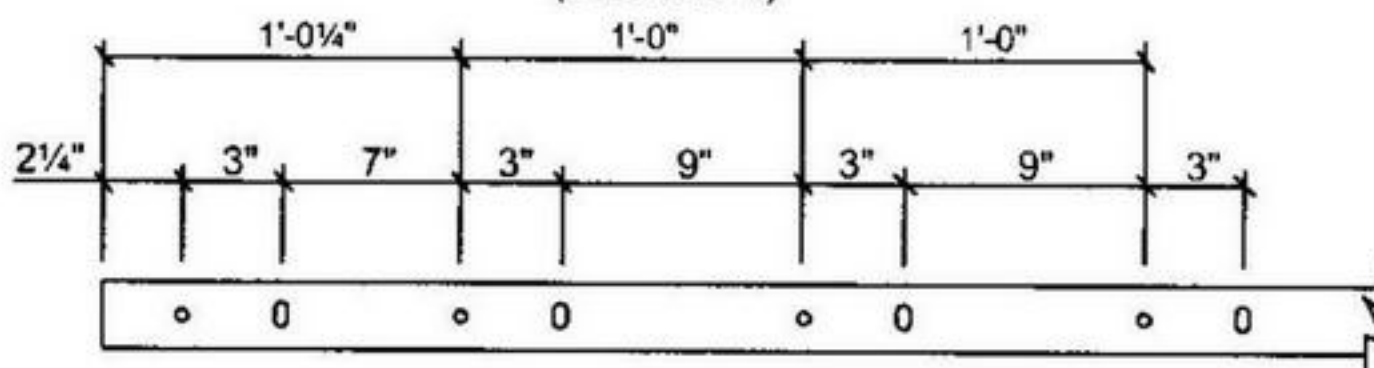


NOTES:

1. Web punching is available on all 6"-10" Zees and Cees and 12" Zees.
2. Please inquire for 4" Zee or Cee special web punching availability.

Pattern D & E - Common Flange

(See Note 1)



NOTES:

1. Common flange punching Pattern D has Pattern A in the web. Common flange punching Pattern E has Pattern B in the web.
2. Flange punching is not available on 4" or smaller Zees and Cees.
3. All holes are 5/8".
4. All slots are 5/8" x 3/4".

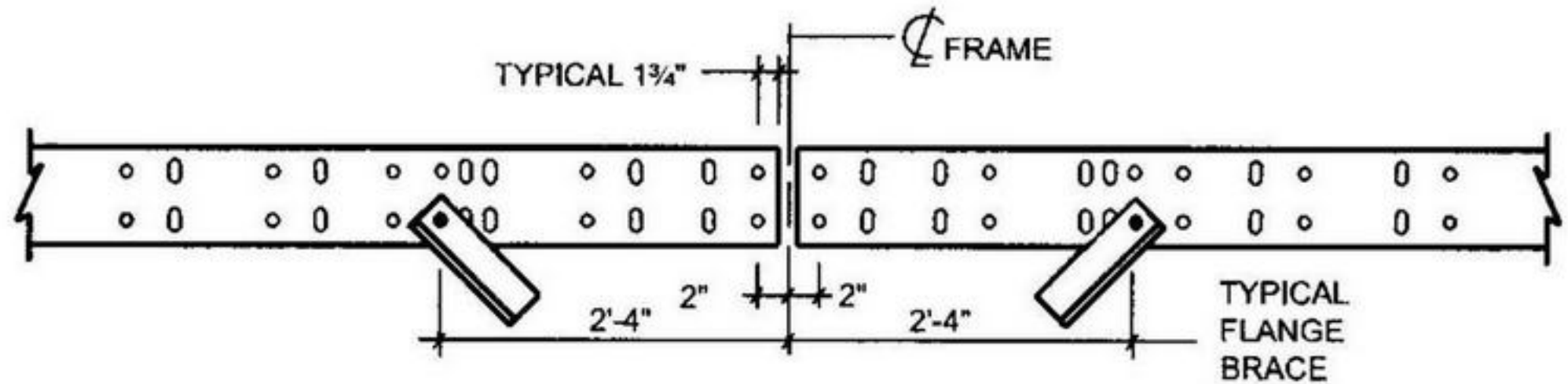
SPECIFICATIONS

LAP PATTERNS FOR CEES AND ZEES

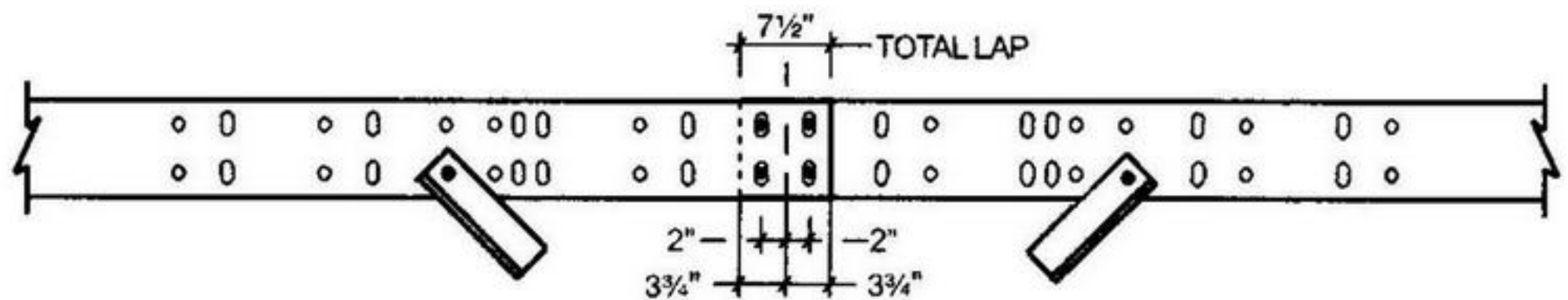
Pattern A

(For Simple Span, Short Lap, Long Lap, 3' Offset and Max Lap)

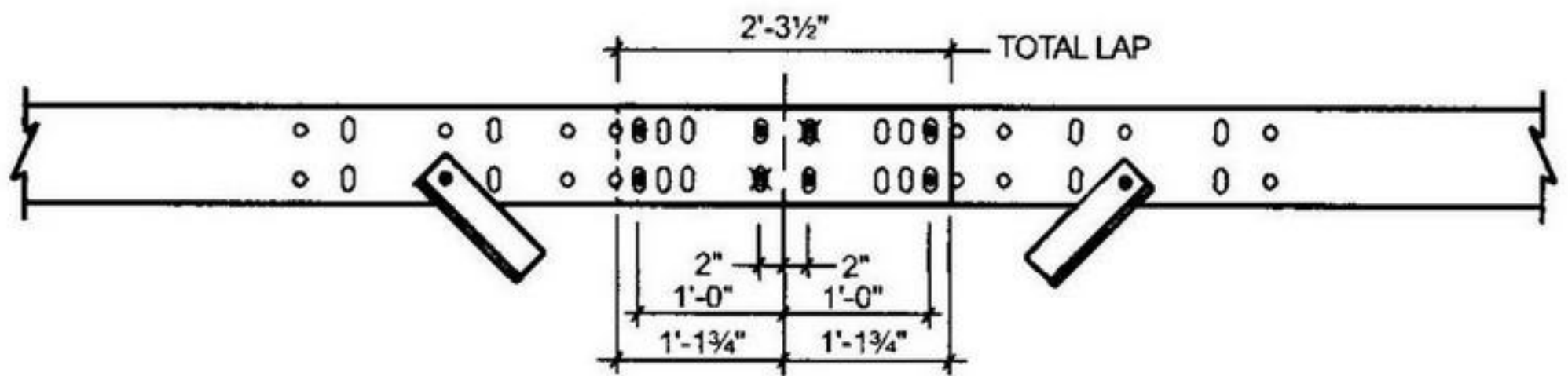
SIMPLE SPAN



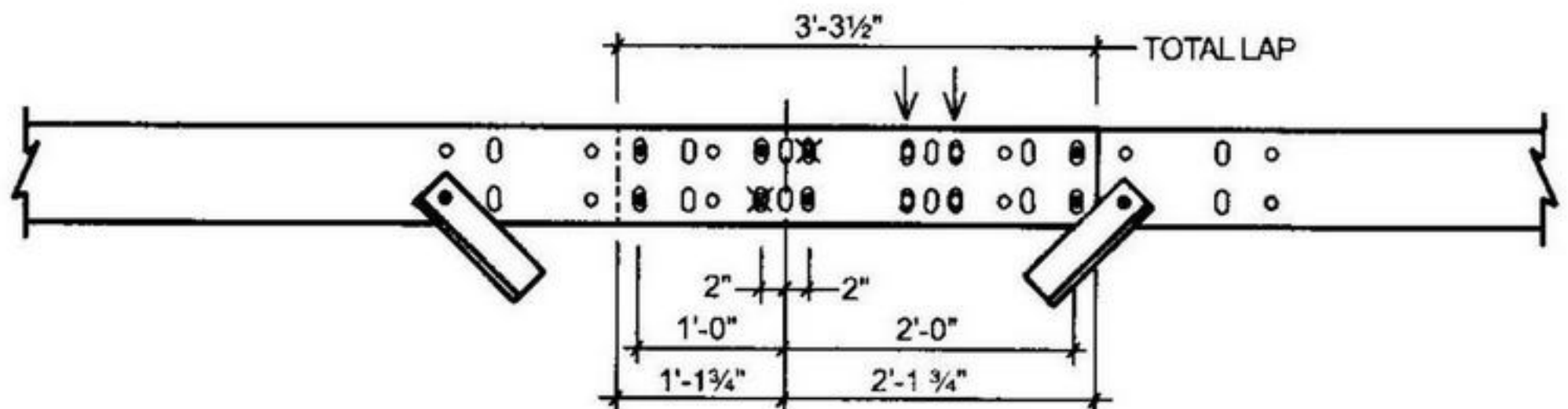
SHORT LAP



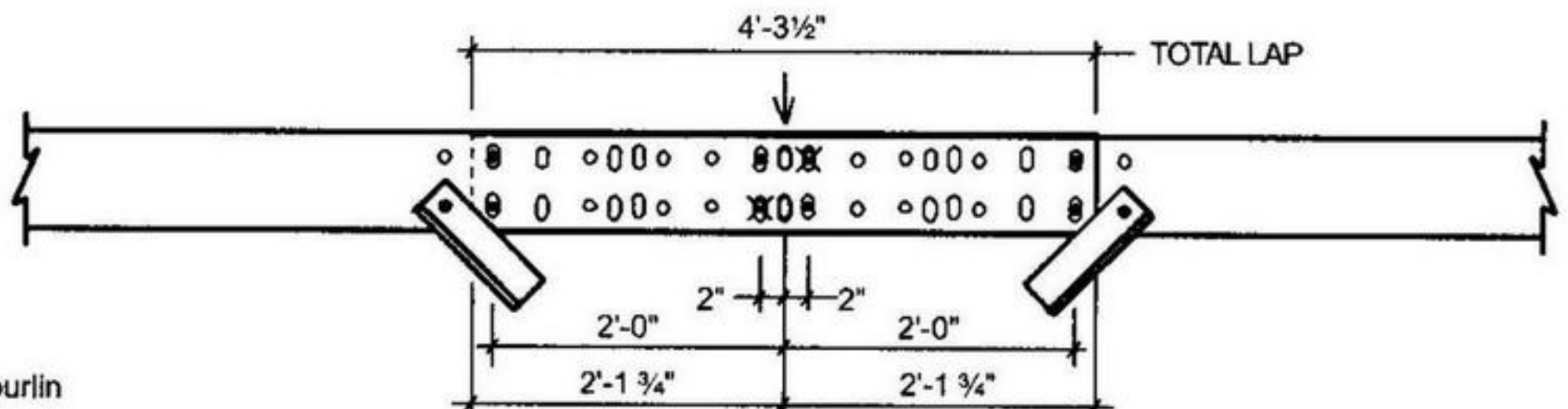
LONG LAP



THREE FOOT OFFSET LAP



MAX LAP



LEGEND

- Holes punched in purlin
- Bolted holes
- ⊗ Holes normally not bolted
- ↓ Holes that align but are not bolted

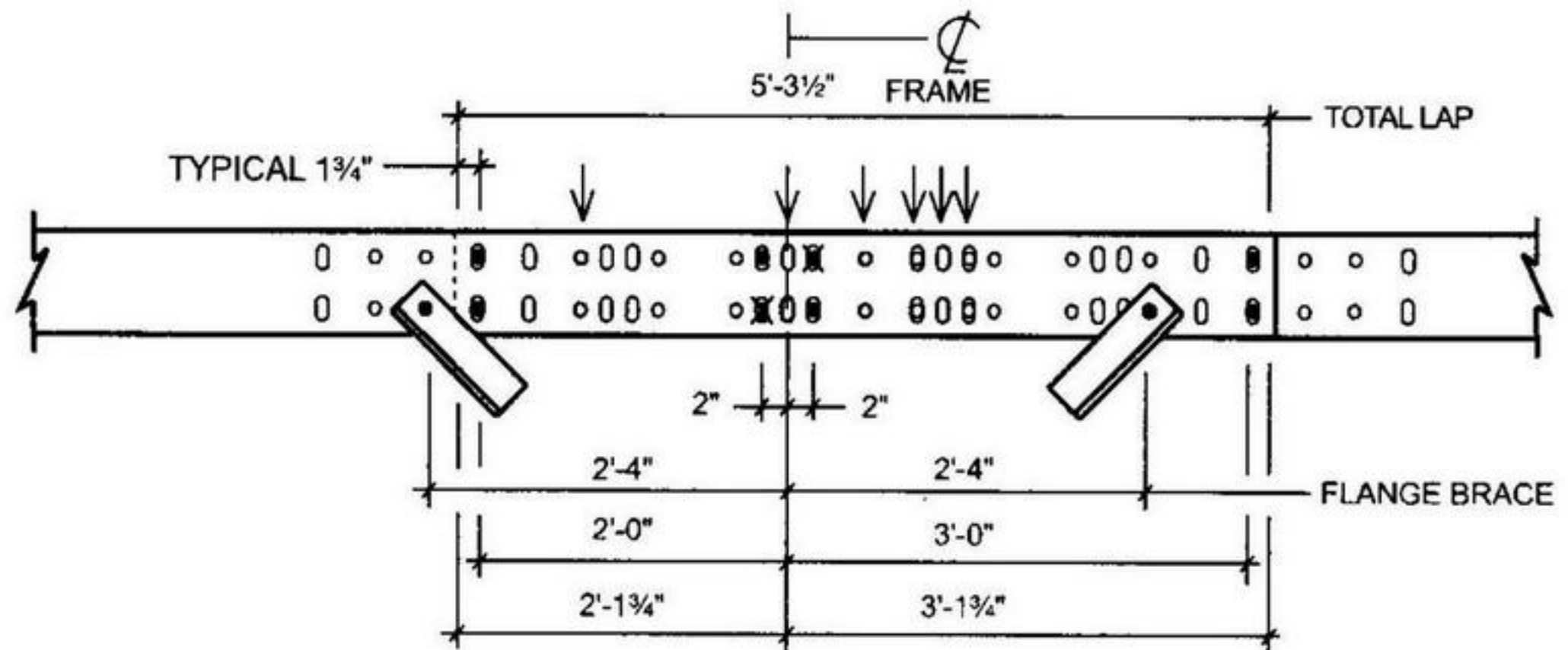
SPECIFICATIONS

LAP PATTERNS FOR CEES AND ZEES

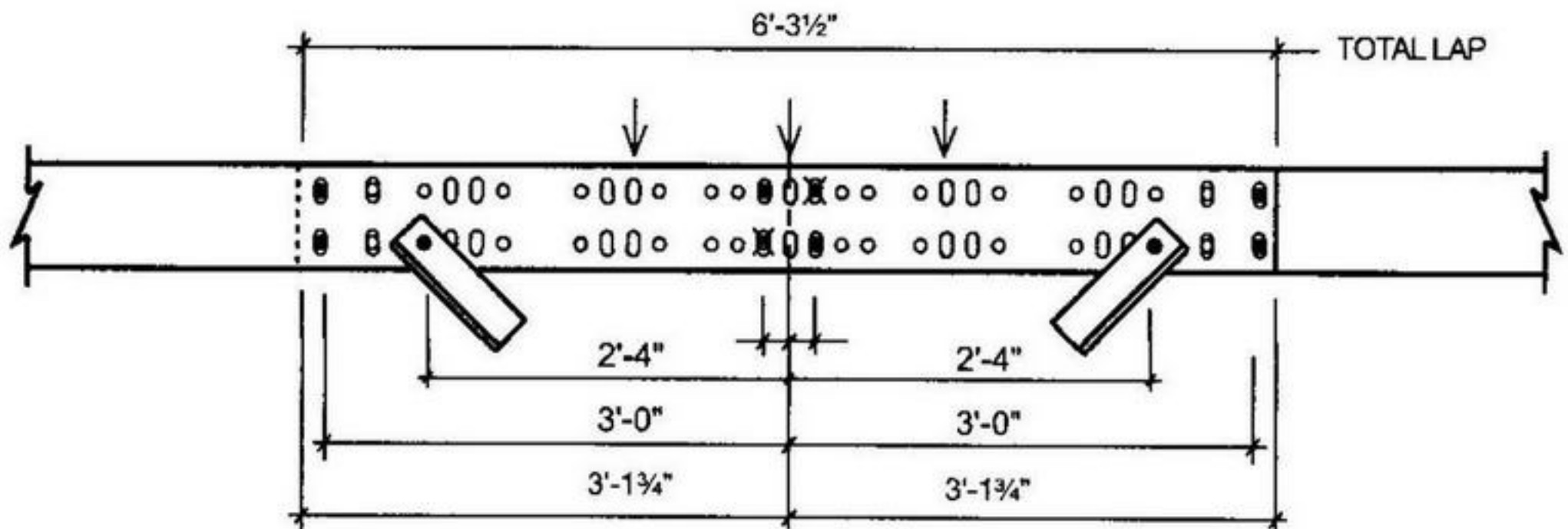
Pattern B

(All laps available in Pattern A plus 5' Offset and Super Lap)

FIVE FOOT OFFSET LAP

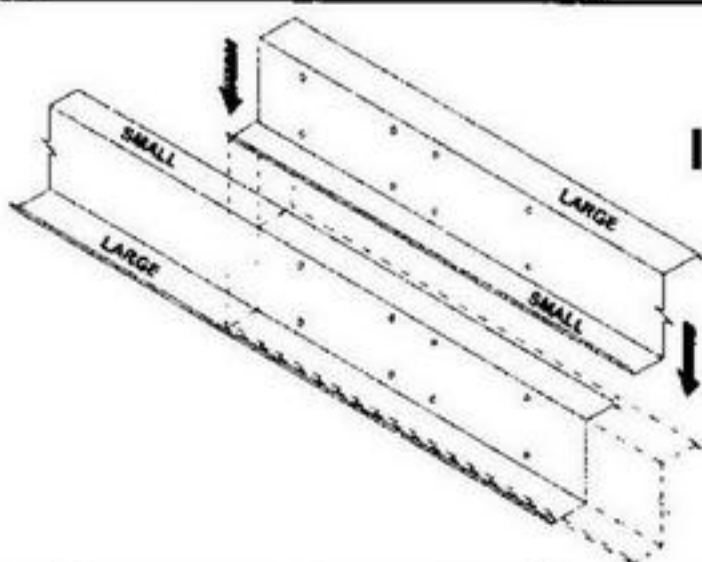


SUPER LAP



LEGEND

- ○ Holes punched in purlin
- ● Bolted holes
- ⊗ ⊗ Holes normally not bolted
- ↓ Holes that align but are not bolted

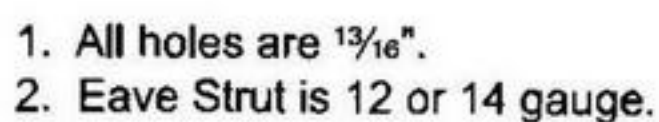
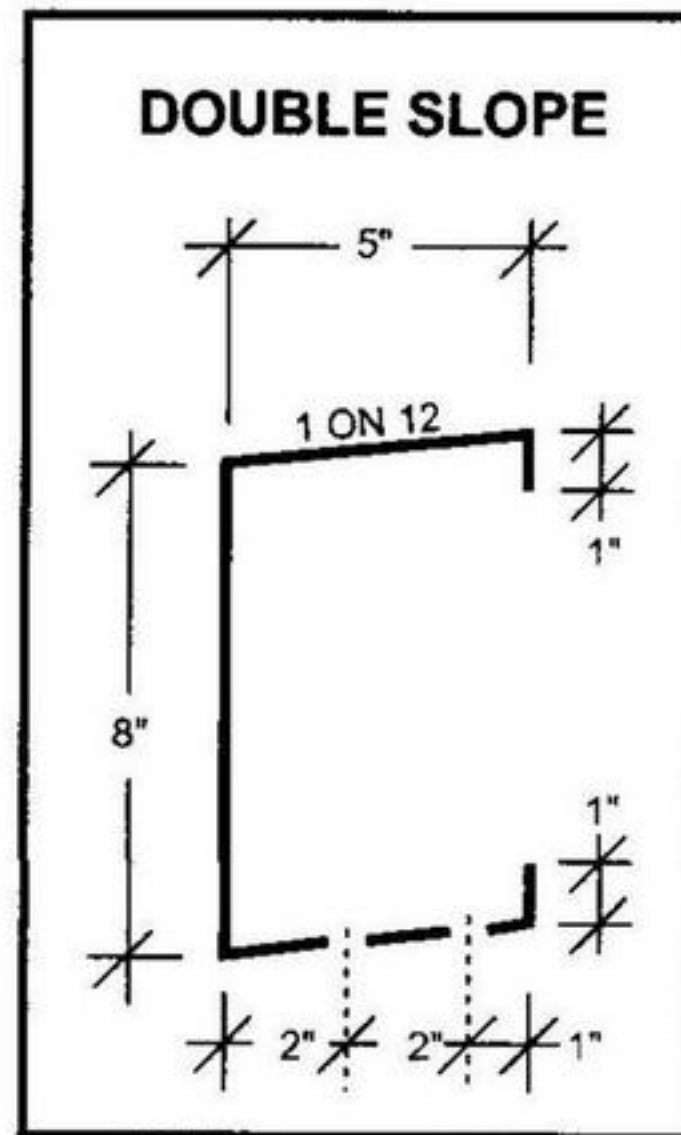


INSTRUCTIONS FOR WEB BOLTED ZEES ONLY

(These instructions do not apply to flange bolted zees)

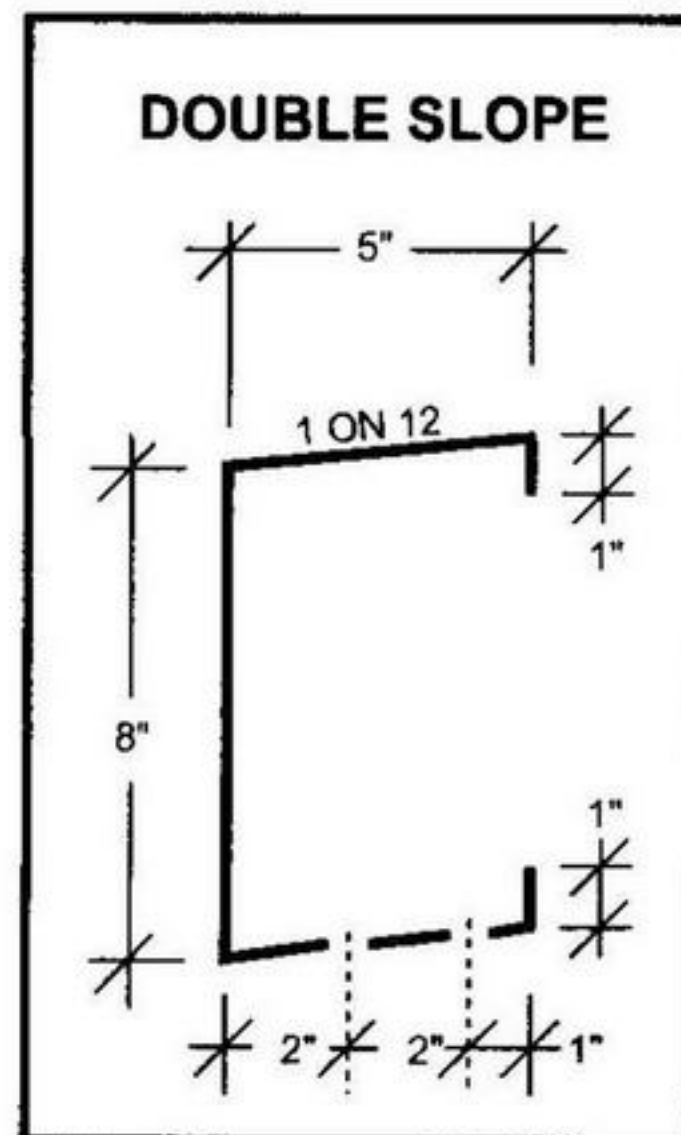
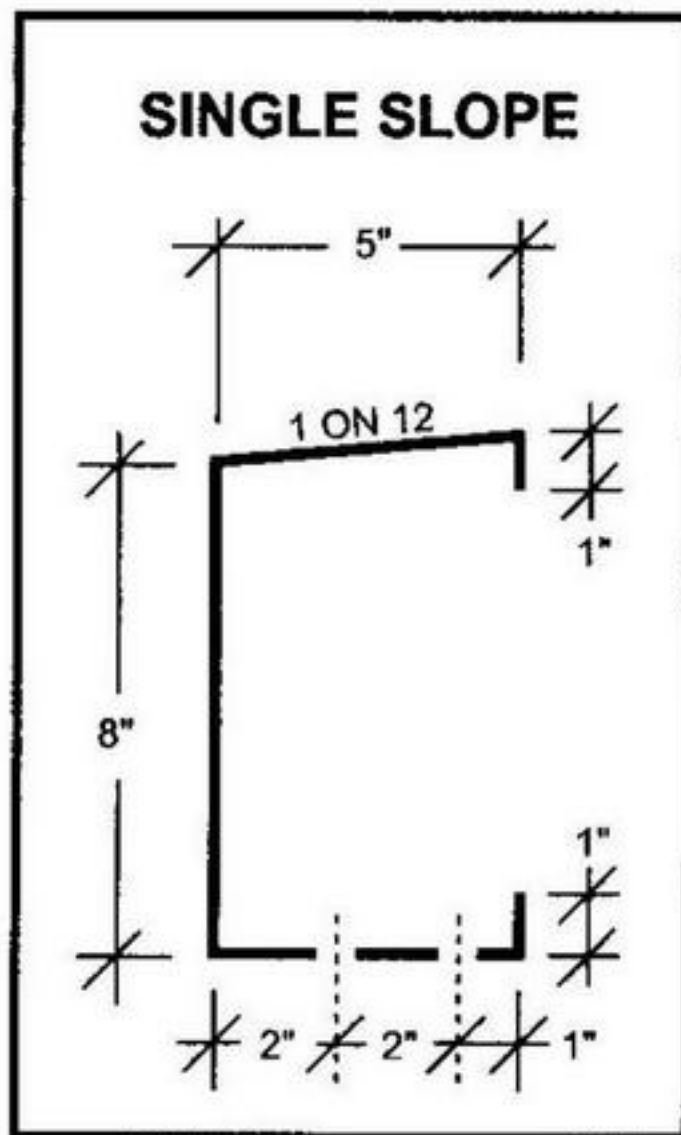
1. Zees have unequal flanges for easier installation.
2. The large flange is 1/4" wider than the small flange.
3. Lap the small flange inside the large flange.
4. A 1/2" triangle ▲, pointing to the large flange, is punched in the web at both ends of the zee.

STANDARD PUNCHING PATTERNS FOR 8" x 5" x 5" EAVE STRUTS

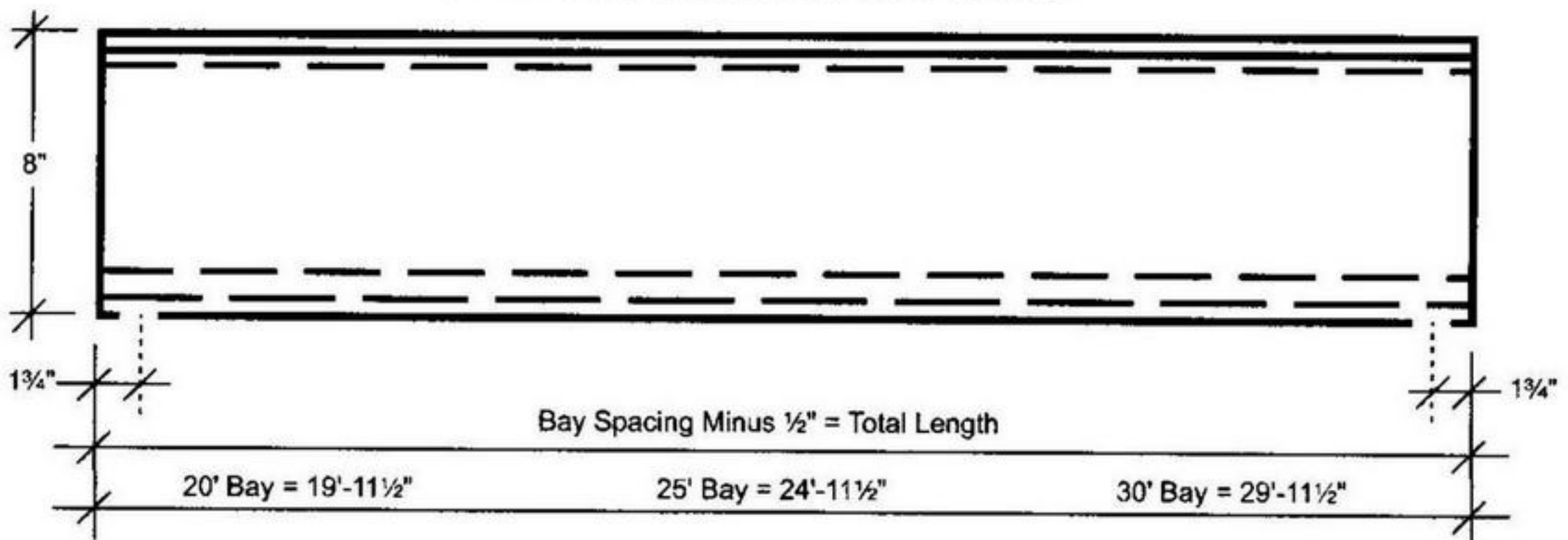


NOTES

OPTIONAL PUNCHING PATTERNS FOR 8" x 5" x 5" EAVE STRUTS



FLANGE PUNCHING SIDE VIEW



NOTES:

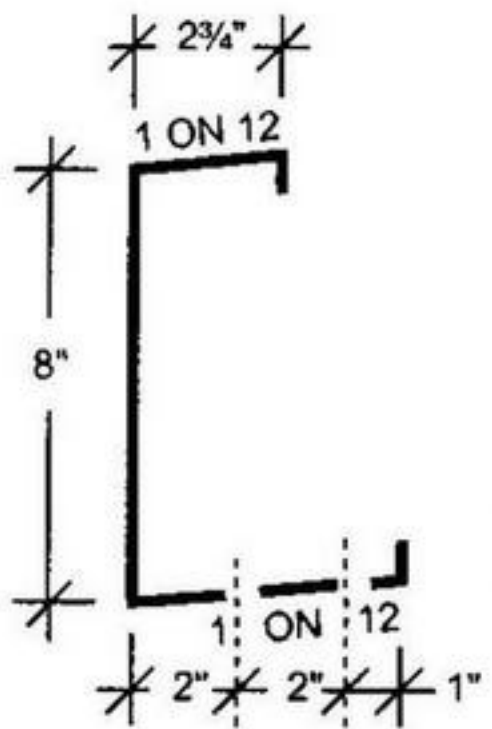
1. All holes are 5/8".
2. Eave Strut is 12 or 14 gauge.

SPECIFICATIONS

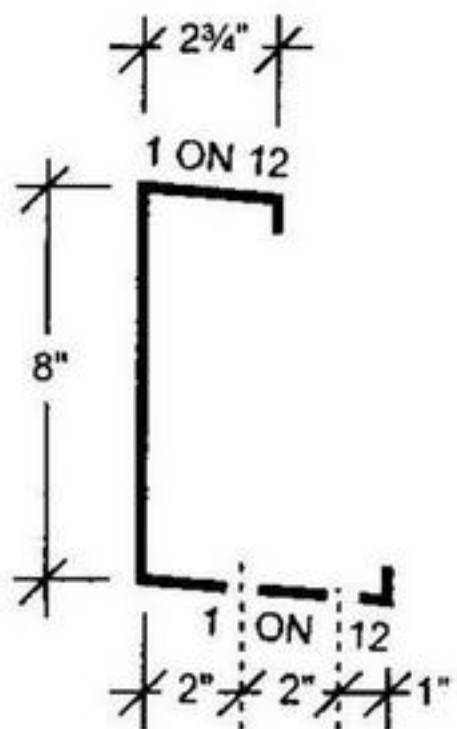
STANDARD

PUNCHING PATTERNS FOR 8" x 5" x 2 3/4" EAVE STRUTS

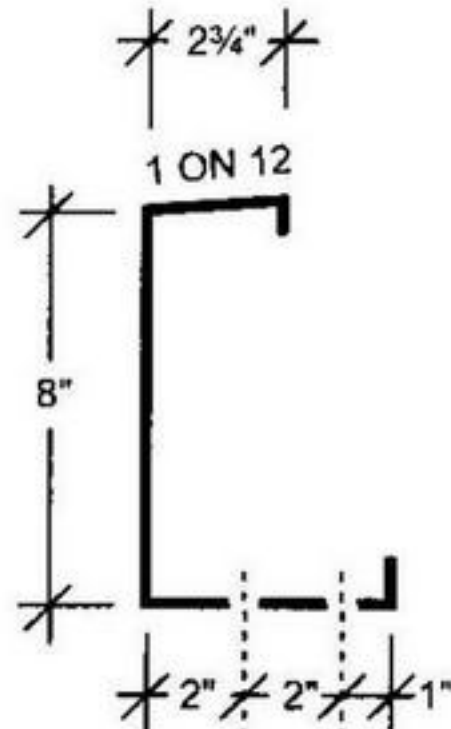
LOW EAVE DOUBLE SLOPE



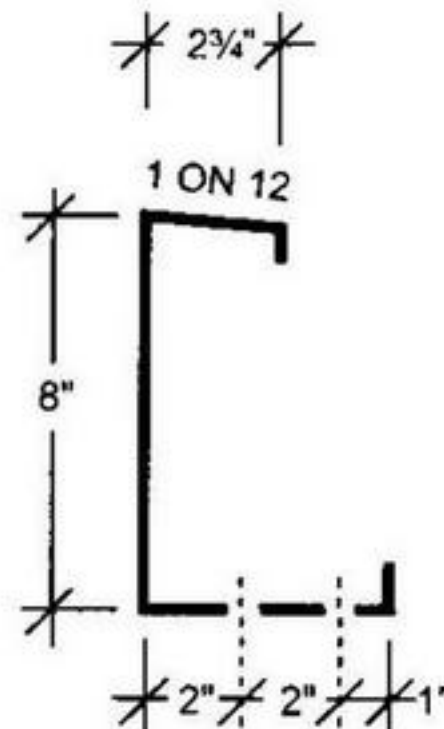
HIGH EAVE DOUBLE SLOPE



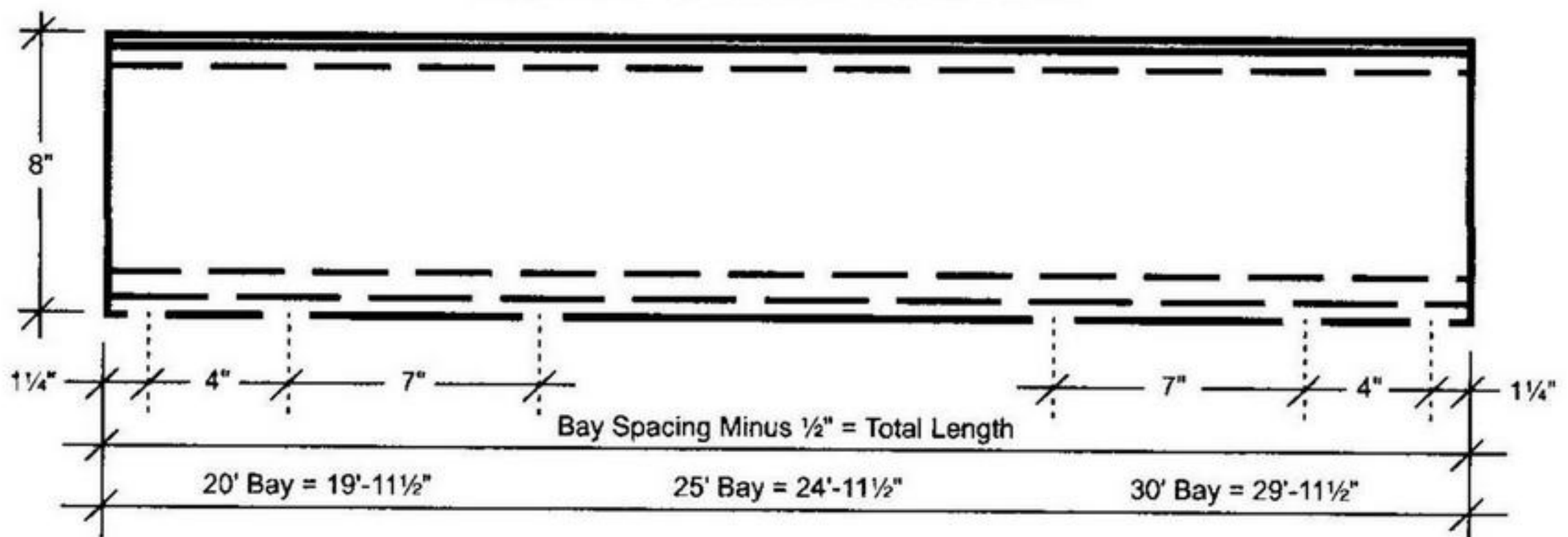
LOW EAVE SINGLE SLOPE



HIGH EAVE SINGLE SLOPE



FLANGE PUNCHING SIDE VIEW



NOTES:

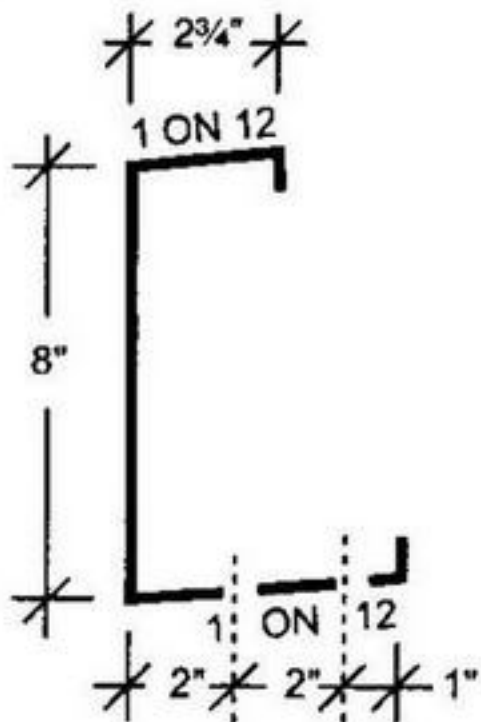
1. All holes are 1 3/16".
2. Eave Strut is 12 or 14 gauge.

SPECIFICATIONS

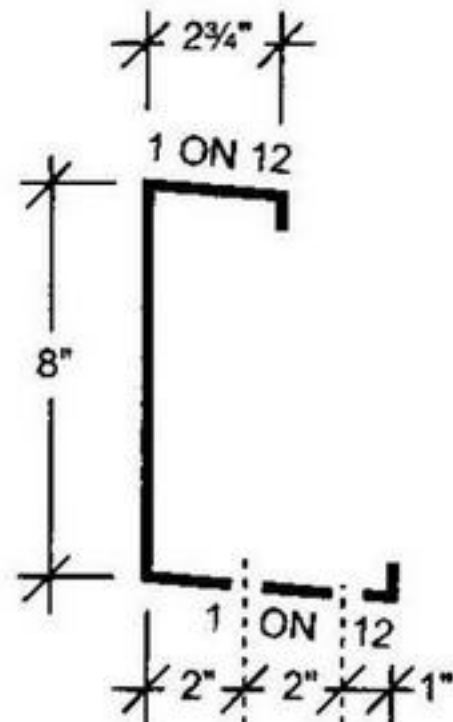
OPTIONAL

PUNCHING PATTERNS FOR 8" x 5" x 2 3/4" EAVE STRUTS

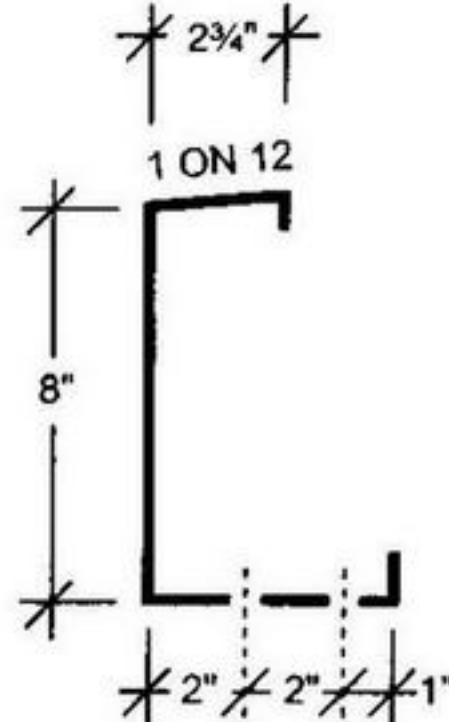
**LOW EAVE
DOUBLE SLOPE**



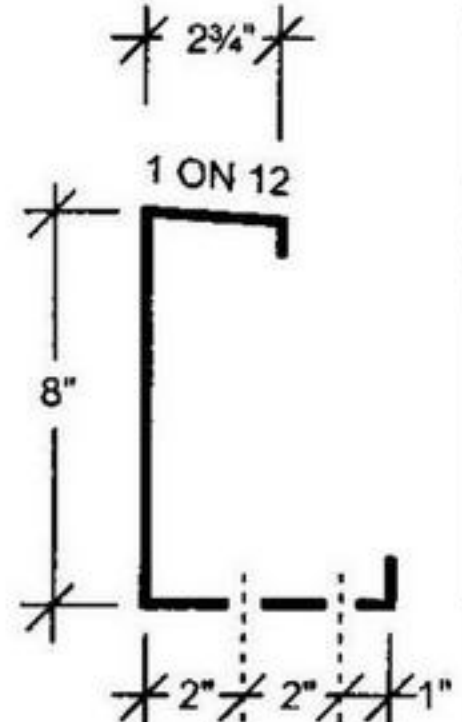
**HIGH EAVE
DOUBLE SLOPE**



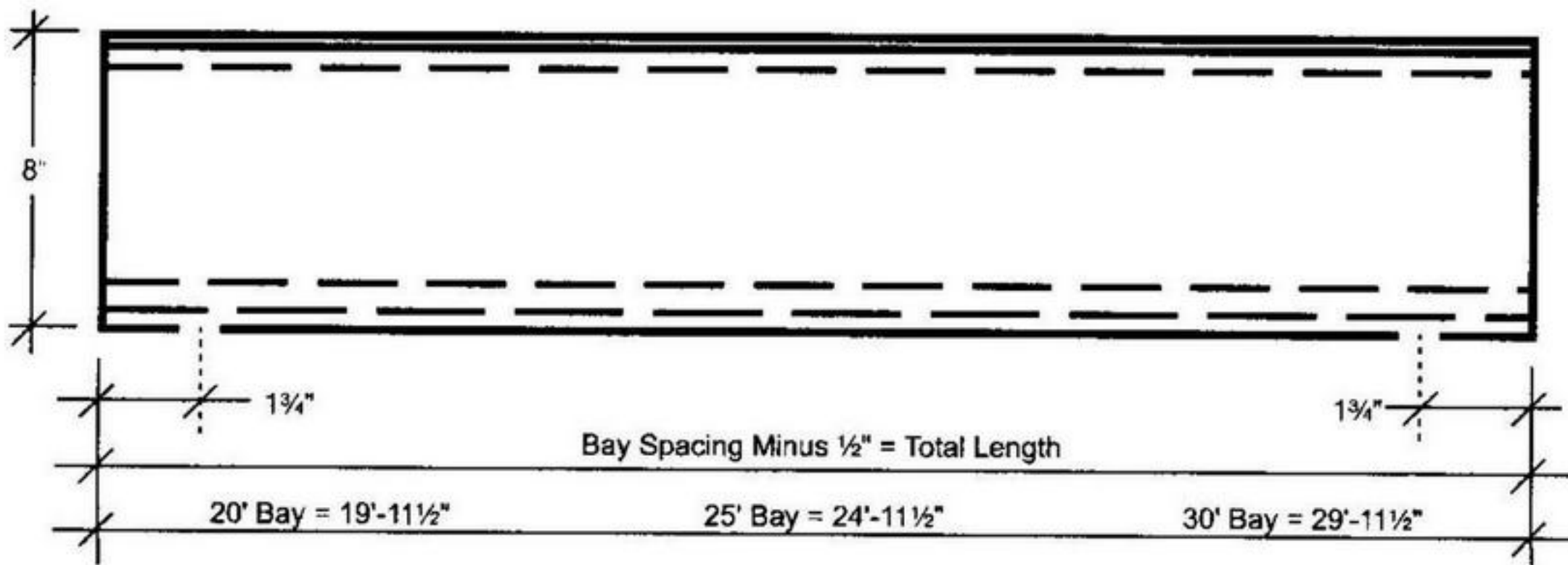
**LOW EAVE
SINGLE SLOPE**



**HIGH EAVE
SINGLE SLOPE**



FLANGE PUNCHING SIDE VIEW



NOTES:

1. All holes are 5/8".
2. Eave Strut is 12 or 14 gauge.