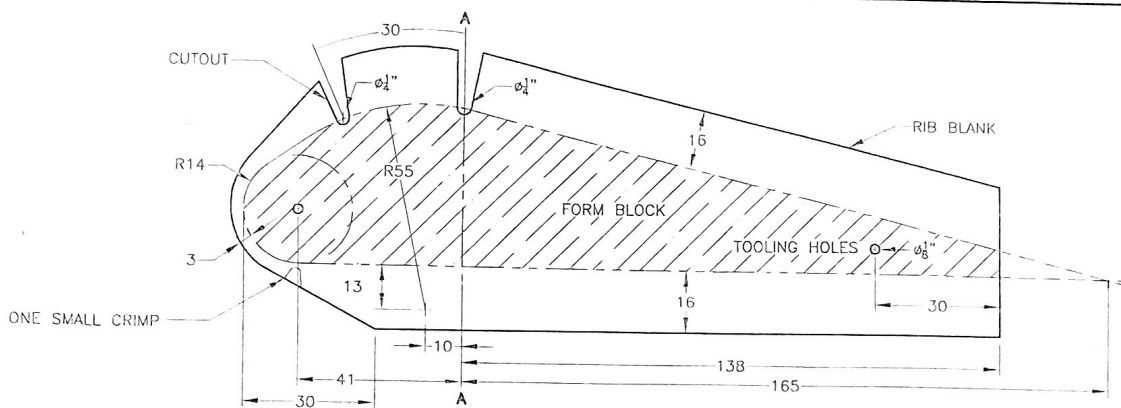


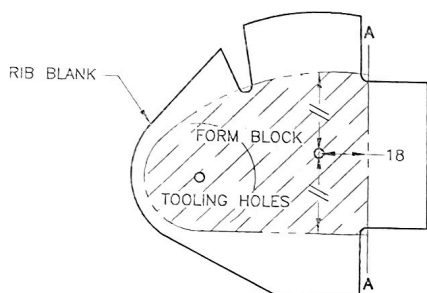


1  $\Delta$  FLAPERON SPLICE END RIBS  
t=.016" 6061-T6 (2L & 2R REQ'D)

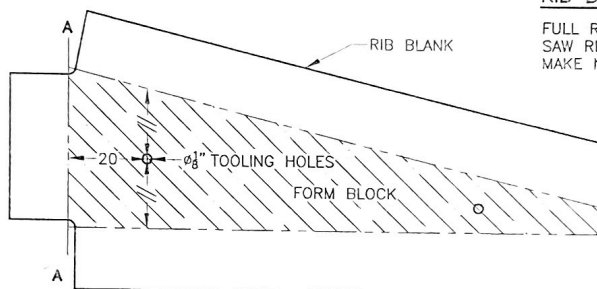
1SP  $\Delta$  FLAPERON ROOT RIB  
t=.025" 6061-T6 (1L & 1R REQ'D)

#### RIB BLOCK

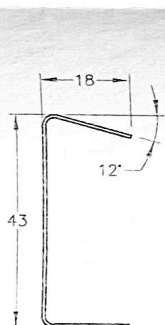
FULL RIB = TIP RIBS & END RIBS  
SAW RIB BLOCK ON LINE A-A TO  
MAKE NOSE RIBS & REAR RIBS



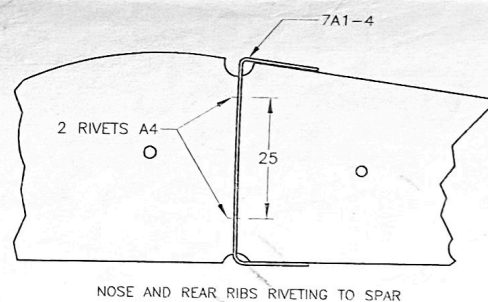
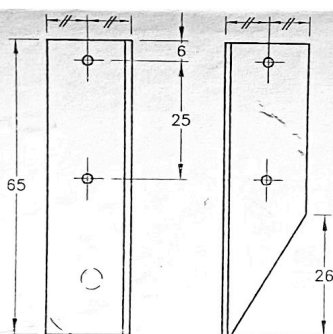
2  $\Delta$  FLAPERON NOSE RIBS  
t=.016" 6061-T6 (4L & 4R REQ'D)



3  $\Delta$  FLAPERON REAR RIBS  
t=.016" 6061-T6 (10L & 10R REQ'D)

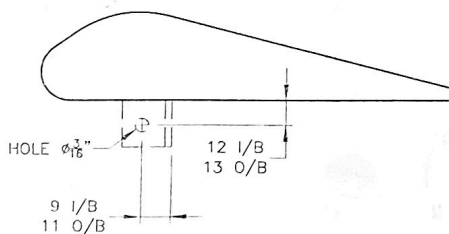


I=1790  
dl=78



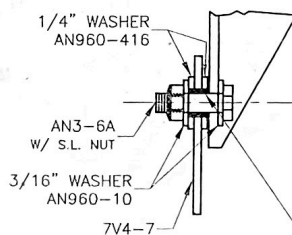
4  $\Delta$  FLAPERON SPAR  
t=.025" 6061-T6 (4 REQ'D)

5  $\Delta$  HINGE BRACKET  
EXT 3/4" X 3/4" t=.093" 6061-T6 (8 REQ'D)

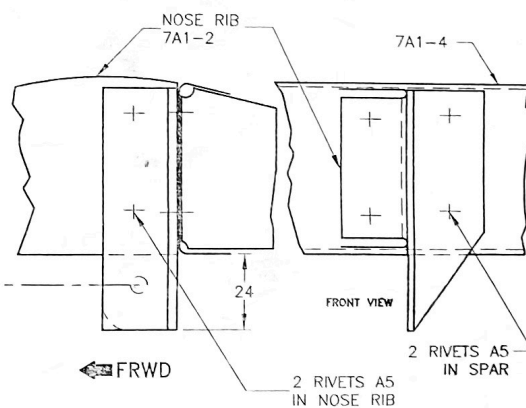


#### HINGE BRACKET 7A1-5 DRILLING

NOTE: HINGE PIVOT HOLES ARE DRILLED DIFFERENTLY  
IN O/B AND I/B FLAPERONS TO LINE UP  
LEADING FOR NOSE SPLICE 7A2-3

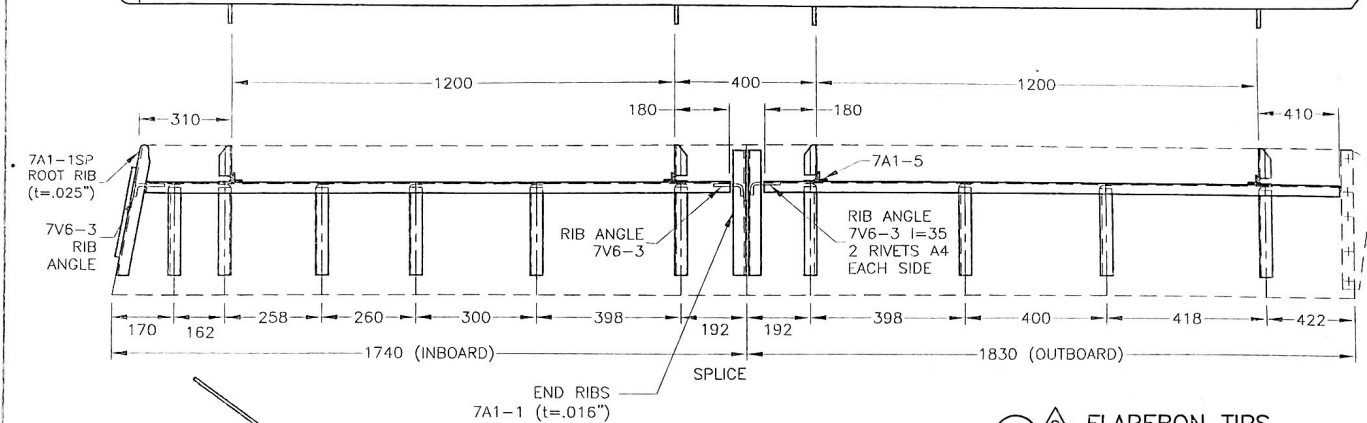


#### HINGE DETAIL

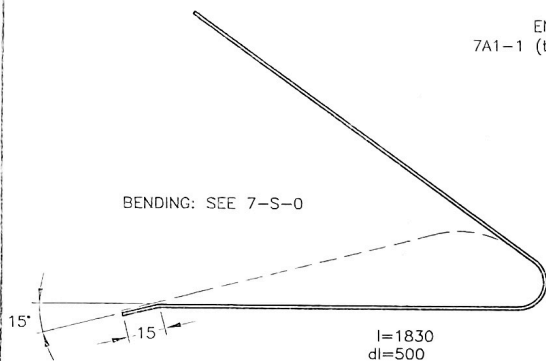


BUSHING  
4130N TUBE 1/4"OD X .028"  
LENGTH=5.5mm QTY=8

FLAPERON ARMS 7V4-7 POSITIONED AS PER DWG 7-V-5



BENDING: SEE 7-S-0

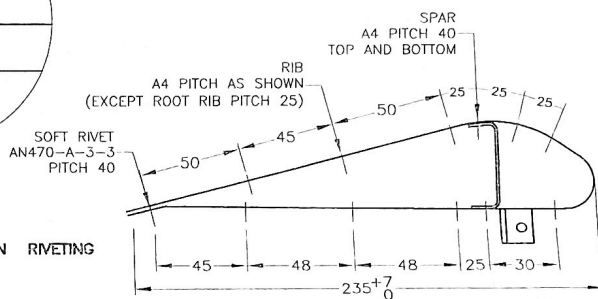


## 6 FLAPERON TIPS

FIBERGLASS (1L & 1R REQ'D)  
(SEE 7S2-1 FOR INSTALLATION)

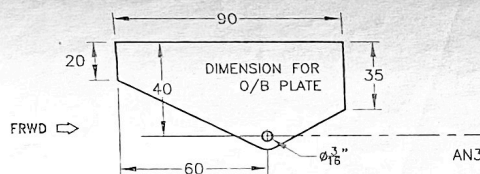
CUT OUT IN SKIN  
(BOTTOM SIDE)  
FOR EXT 7A1-5  
(TRIANGULAR OR  
L SHAPED)

## FLAPERON RIVETING



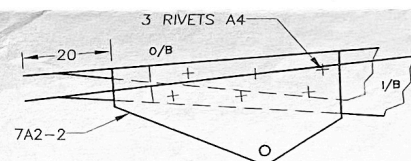
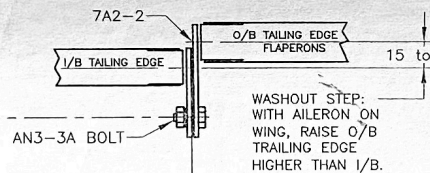
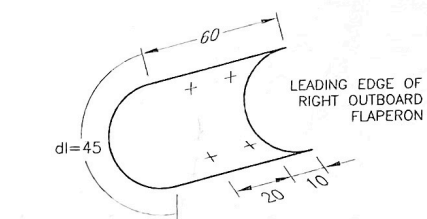
## 1 FLAPERON SKIN

t=.016" 6061-T6  
I/B LENGTH = 1740 (2 REQ'D)  
O/B LENGTH = 1830 (2 REQ'D)



## 2 REAR SPLICE PLATES

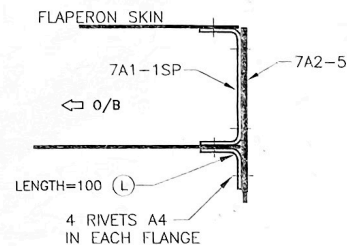
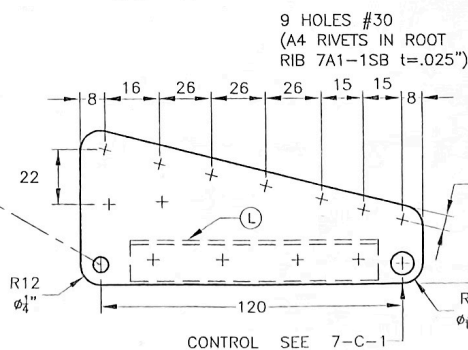
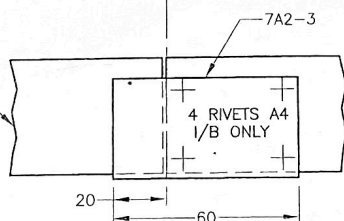
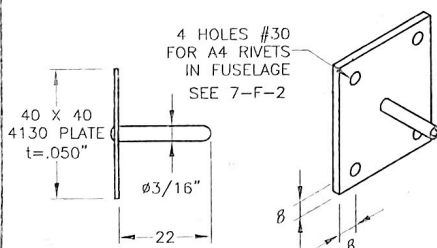
t=.032" 6061-T6 (4 REQ'D)  
50 X 90



SUGGESTION: WAIT TO INSTALL I/B PLATE 7A2-2 TO I/B FLAPERON UNTIL AFTER FLAPERONS ARE BOLTED TO WING. TRIM TOP OF I/B PLATE FLUSH WITH TOP OF I/B FLAPERON.

## 3 NOSE SPLICE

t=.032" 6061-T6 (2 REQ'D)



## 4 ROOT HINGE PIN

WELDED ASSEMBLY (2 REQ'D)

ALIGNMENT: POSITION HORN 7A2-5 ON END RIB 7A1-1SP WITH 1/4" HOLE IN LINE WITH PIVOT HOLE IN HINGE BRACKETS 7A1-5 I/B

## 5 CONTROL HORN

t=.090" 6061-T6 (2 REQ'D)

8267

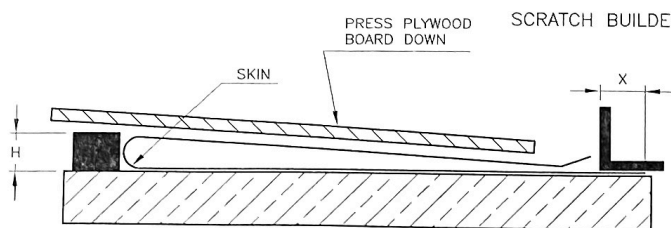
STOL  
CH 701

FLAPERONS

7-A-2

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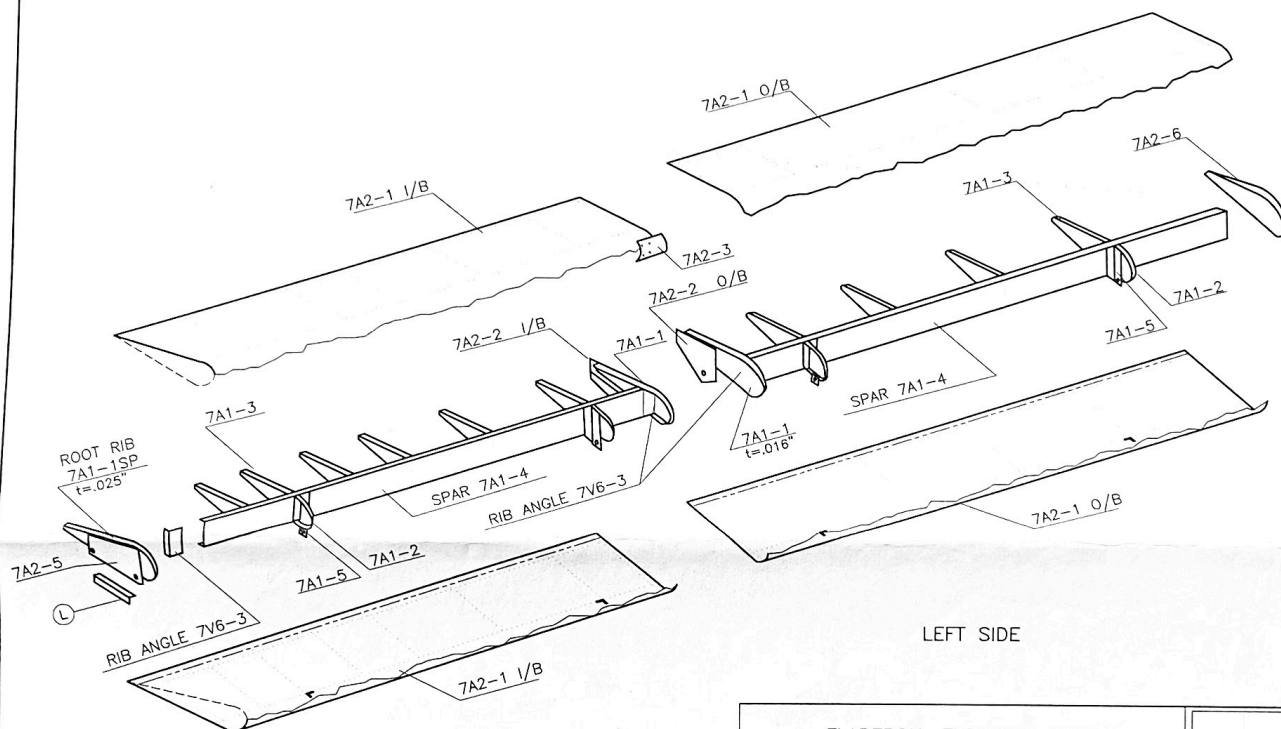
DATE: 04/2006



SCRATCH BUILDERS ONLY:

BENDING LEADING EDGE RADIUS;  
FIRST CUT SHEET TO SIZE.  
FLAPERON: BEND 15MM FLANGE 15 DEGREES.  
ELEVATOR: BEND 18MM FLANGE 18 DEGREES.  
LAY SKIN FLAT ON WORKBENCH TO CLAMP AN EXTRUSION  
DISTANCE = X FROM EDGE OF SHEET ALONG SIDE WITHOUT  
BENT FLANGE. CAREFULLY BRING OTHER EDGE ALONG  
EXTRUSION. POSITION SPACER H ALONG LEADING LEADING  
EDGE, LAY A PLYWOOD BOARD ON SKIN AND PRESS  
PLYWOOD DOWN TO SPACER H.

| SKIN       |       | H  | X  |
|------------|-------|----|----|
| FLAPERON   | 7A2-1 | 32 | 19 |
| STABILIZER | 7H4-1 | 47 | 19 |
| ELEVATOR   | 7H4-2 | 47 | 19 |



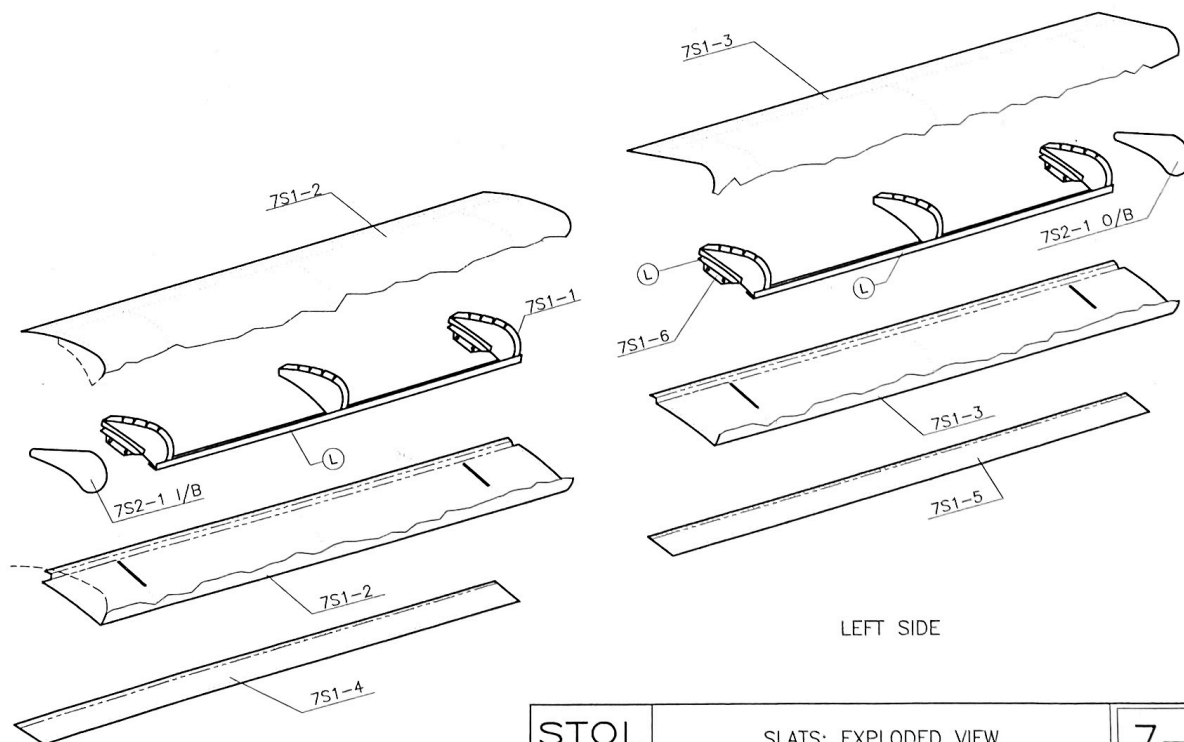
LEFT SIDE

FLAPERON: EXPLODED VIEW

7-A-0

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LEFT SIDE

STOL  
CH 701

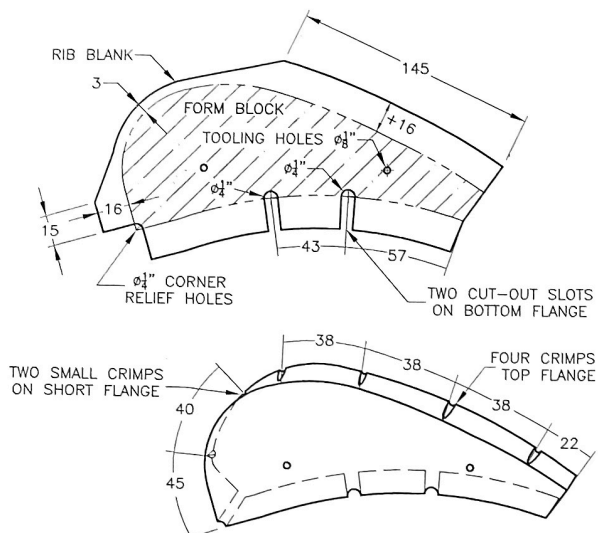
SLATS: EXPLODED VIEW

7-S-0

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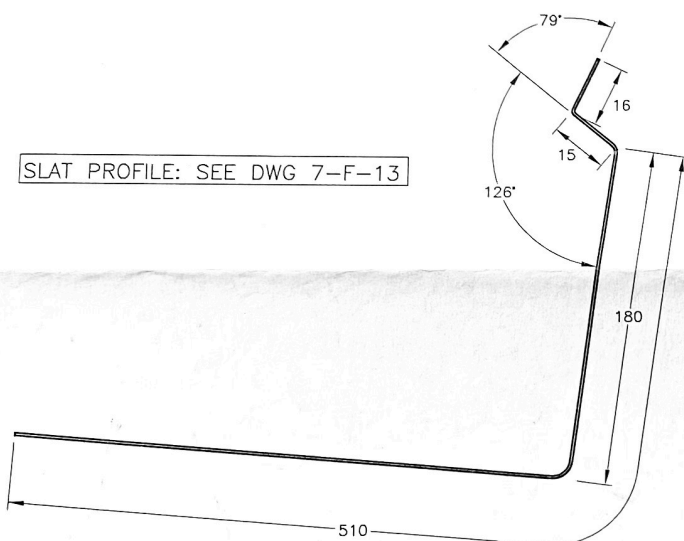
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DATE: 06/2005



1 SLAT RIBS  
 $t=.016"$  6061-T6 (6L & 6R REQ'D)

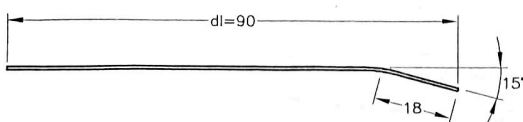
SLAT PROFILE: SEE DWG 7-F-13



dl=540

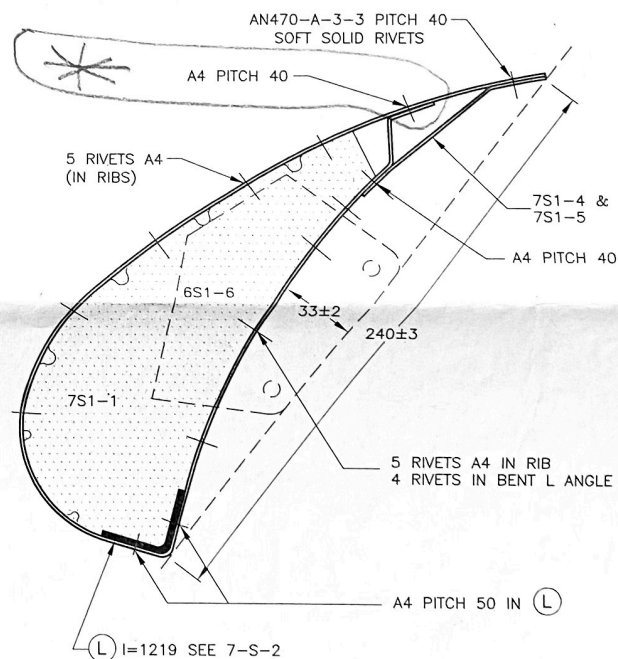
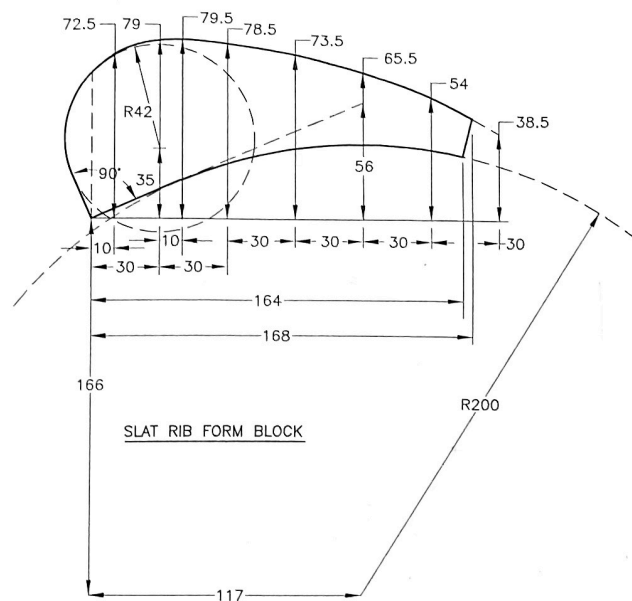
2 I/B SLAT SKINS  
 $t=.016"$  6061-T6 (2 REQ'D)  
 $l=1440$

3 O/B SLAT SKINS  
 $t=.016"$  6061-T6 (2 REQ'D)  
 $l=1830$

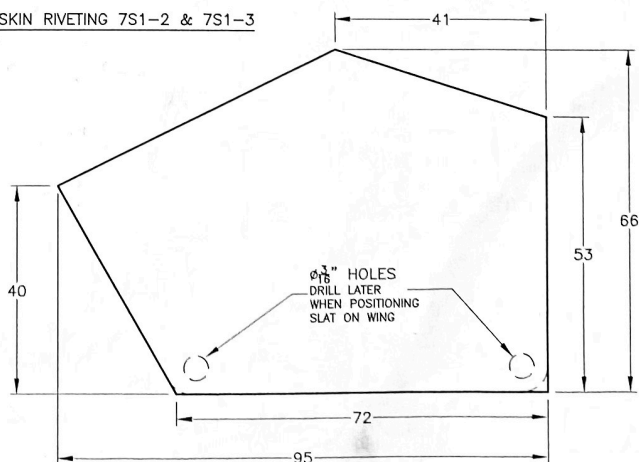


4 I/B SLAT TRAILING EDGES  
 $t=.025"$  6061-T6 (2 REQ'D)  
 $l=1440$

5 O/B SLAT TRAILING EDGES  
 $t=.025"$  6061-T6 (2 REQ'D)  
 $l=1830$



SKIN RIVETING 7S1-2 & 7S1-3



6 SLAT SUPPORTS  
 $t=.040"$  6061-T6 (8 REQ'D)

STOL  
CH 701

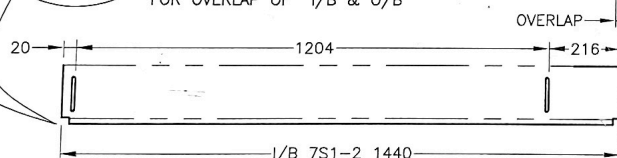
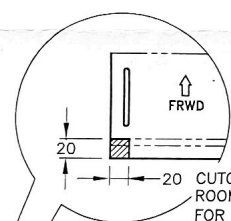
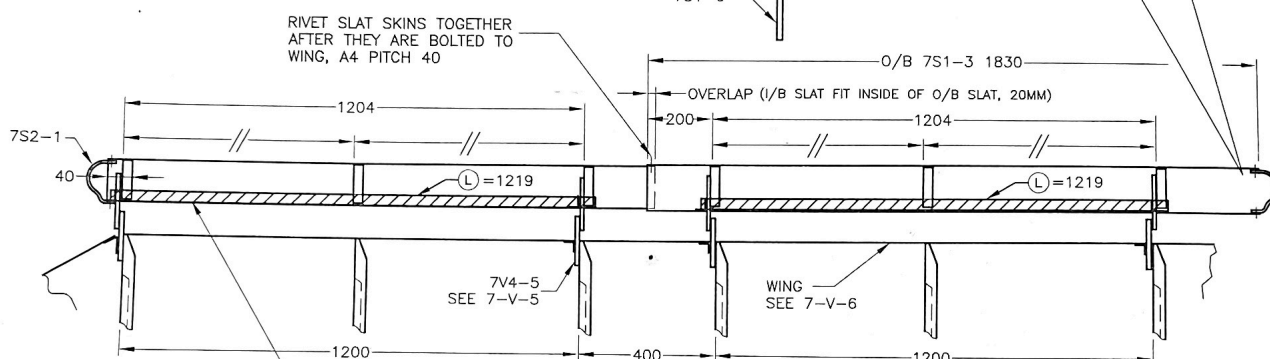
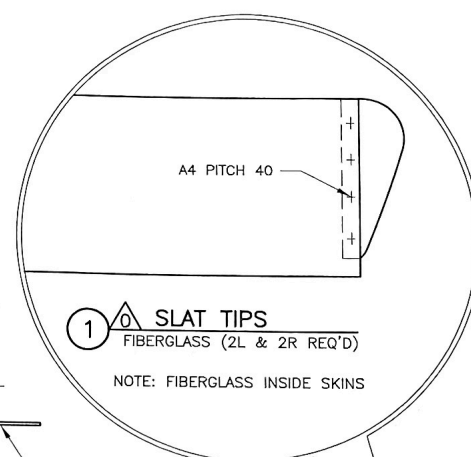
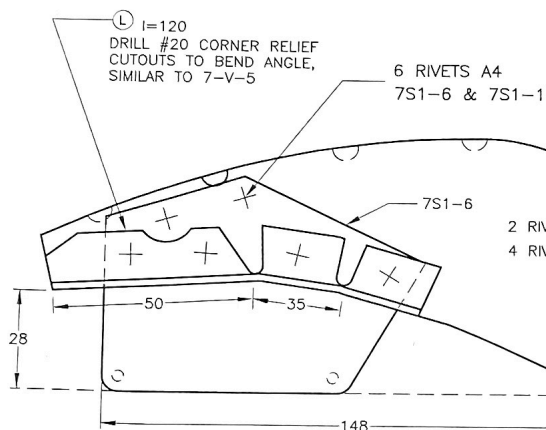
SLATS RIBS / SKINS

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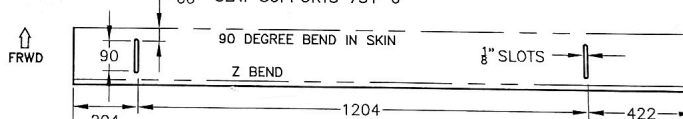
7-S-1

DATE: 04/2006



① RIVETED IN FRONT  
CORNER OF SKIN  
SEE 7-S-1

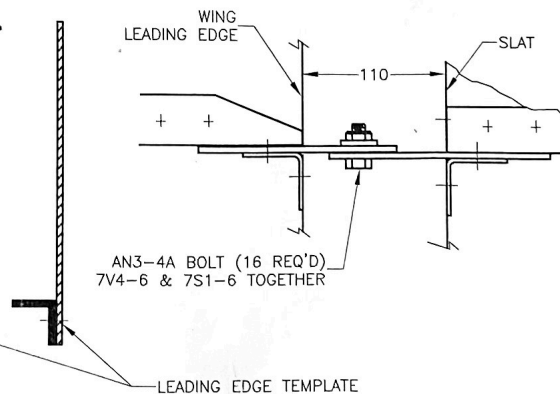
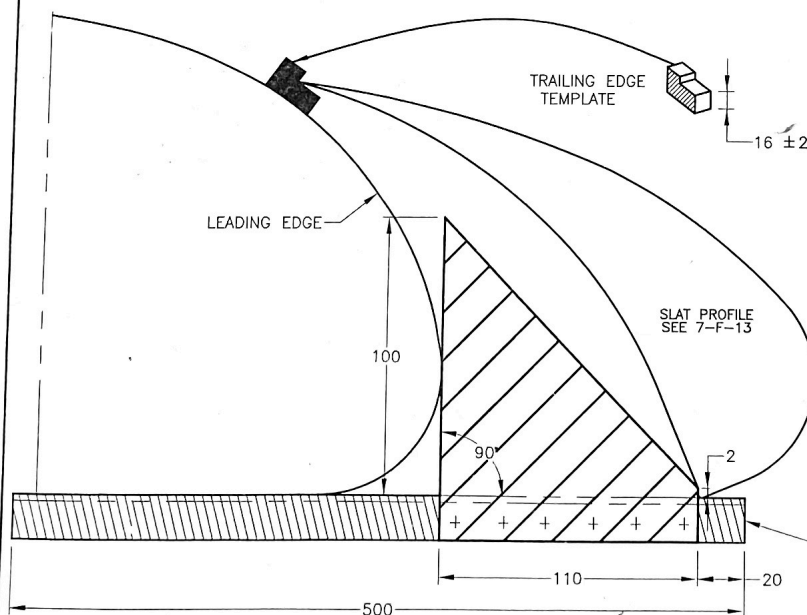
CUTOUT SLOTS IN BOTTOM OF SLAT SKINS  
7S1-2 AND 7S1-3 TO MAKE ROOM FOR  
SLAT SUPPORTS 7S1-6



SLAT TO WING POSITIONING TEMPLATE  
(DIAGRAM IS NOT TO SCALE)

REF #1. BOTTOM CORNER OF SLAT IS IN LINE WITH  
BOTTOM OF WING 110mm FORWARD OF  
LEADING EDGE OF WING.

REF #2. TRAILING EDGE OF SLAT IS 16mm  
ABOVE NOSE SKIN.



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CH 701

SLATS TIPS

7-S-2

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