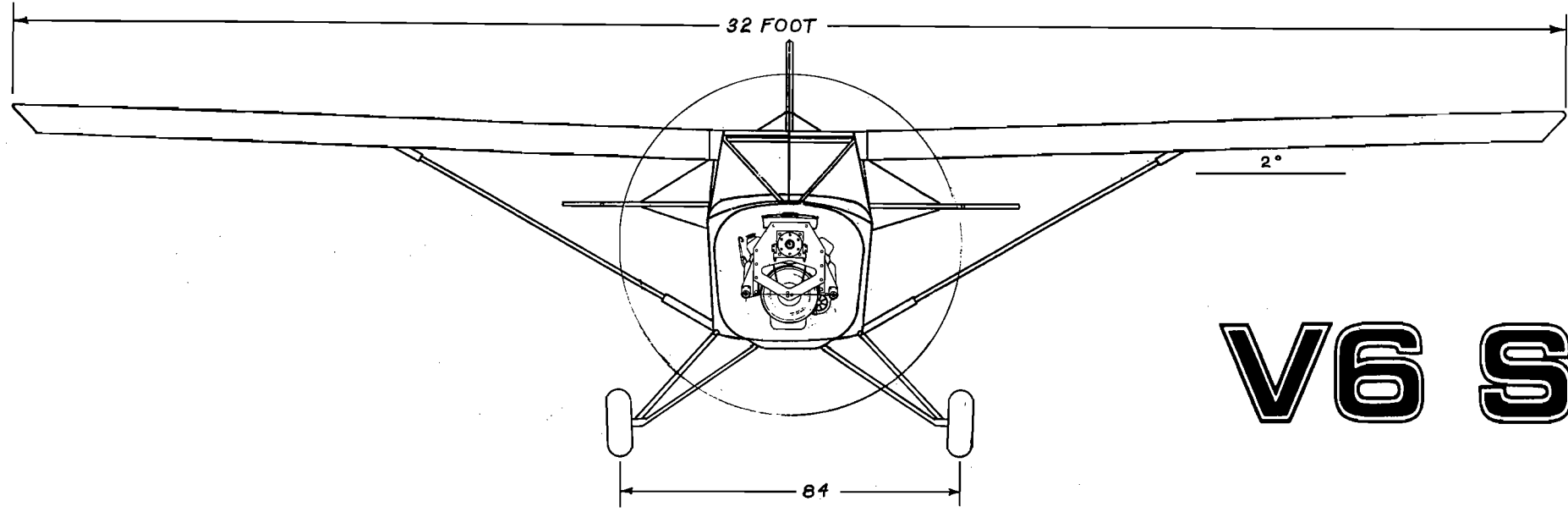
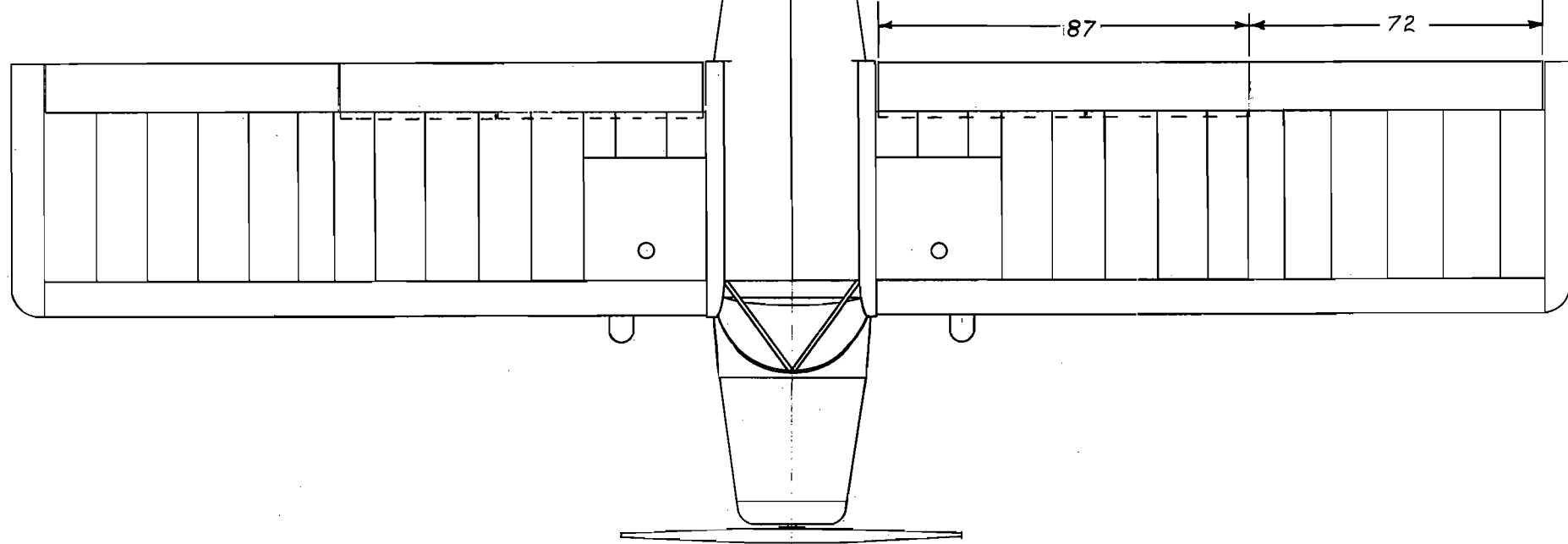
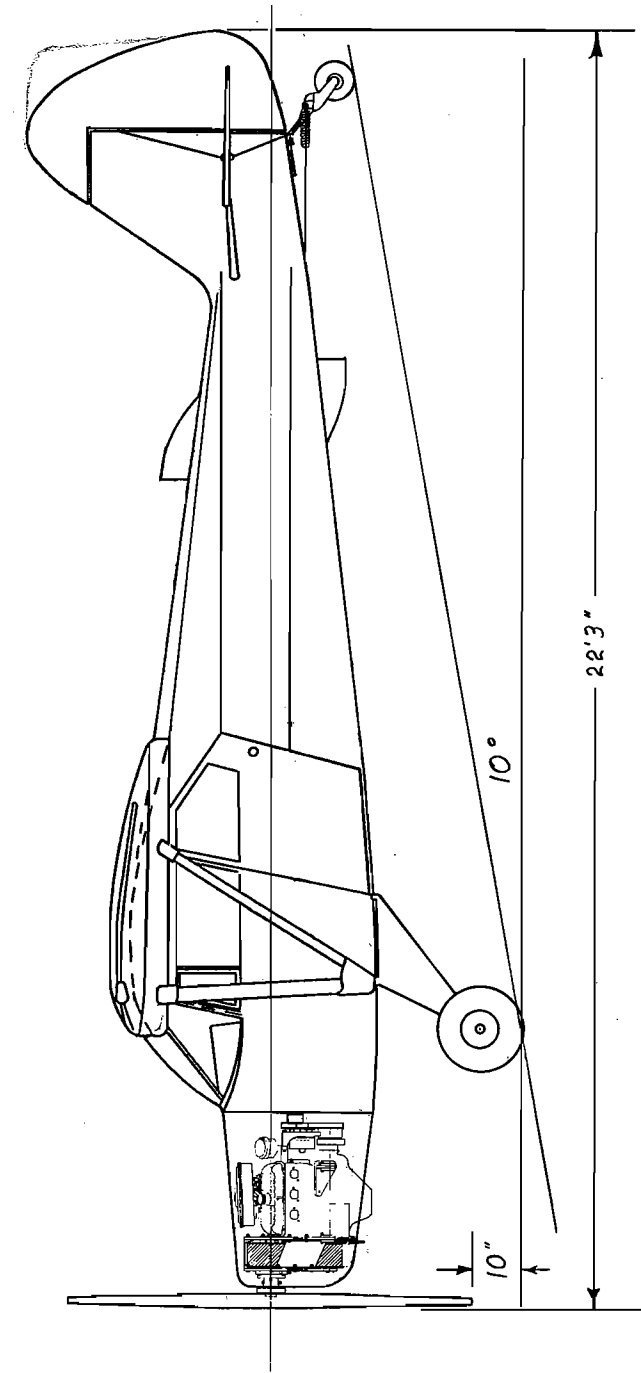
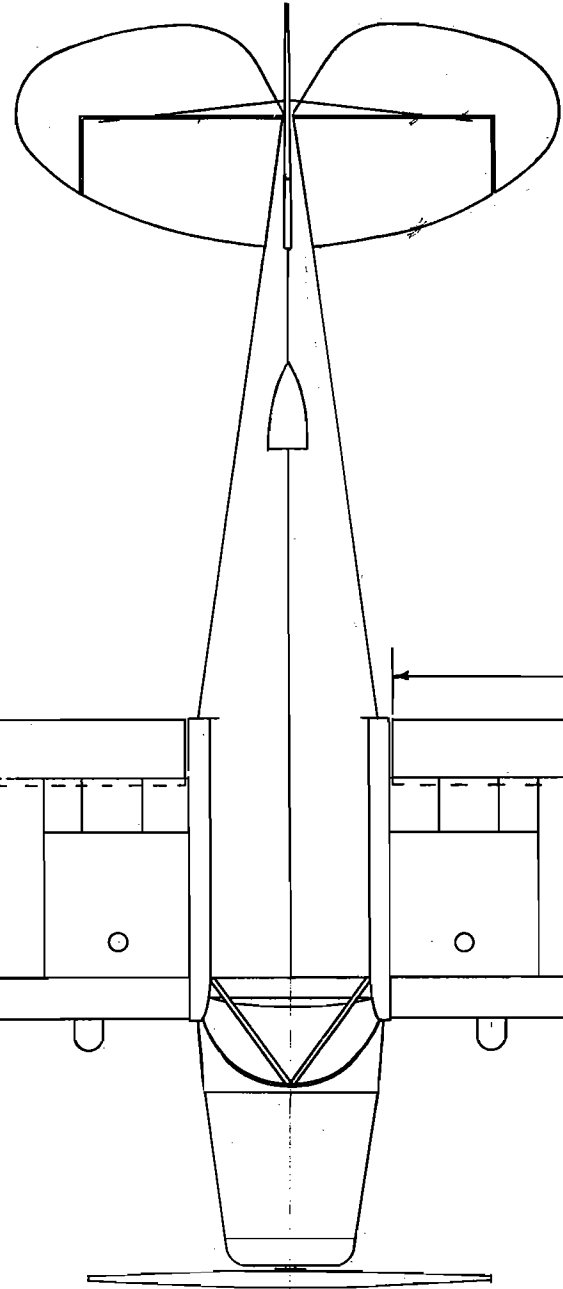


WING AREA (TOTAL)	168.0	SQ. FT.
AILERON AREA (TOTAL)	13.24	SQ. FT.
ELEVATOR AREA (TOTAL)	14.00	SQ. FT.
STABILIZER AREA (TOTAL)	13.2	SQ. FT.
FIN AREA	4.66	SQ. FT.
RUDDER AREA	6.76	SQ. FT.
FLAP AREA (TOTAL)	17.0	SQ. FT.

AILERON TRAVEL	15° ± 2° UP & 15° ± 2° DOWN
RUDDER TRAVEL	16° ± 2° RIGHT & 16° ± 2° LEFT
ELEVATOR TRAVEL	24° ± 2° UP & 12° ± 2° DOWN
STABILIZER TRAVEL	1° ± 1/2° UP & 6 1/2° ± 1/2° DOWN
FLAP TRAVEL	40° ± 2° DOWN

- NOTES:
- ELEVATOR TRAVEL IS RELATIVE TO HORIZONTAL REFERENCE LINE.
 - AILERON & FLAP TRAVEL IS RELATIVE TO TRAILING EDGE OF WING.
 - RUDDER TRAVEL IS RELATIVE TO \bar{C} OF AIRPLANE.
 - STABILIZER TRAVEL IS RELATIVE TO HORIZONTAL REFERENCE LINE.
 - RIGGING PROCEDURE
 - LEVEL AIRPLANE (LATERAL AND LONGITUDINAL)
 - ADJUST FRONT STRUTS TO OBTAIN 2° DIHEDRAL AT FRONT SPARS.
 - ADJUST REAR STRUTS TO OBTAIN 2 1/2° NEGATIVE INCIDENCE OF WING AT OUTBOARD AILERON RIB.

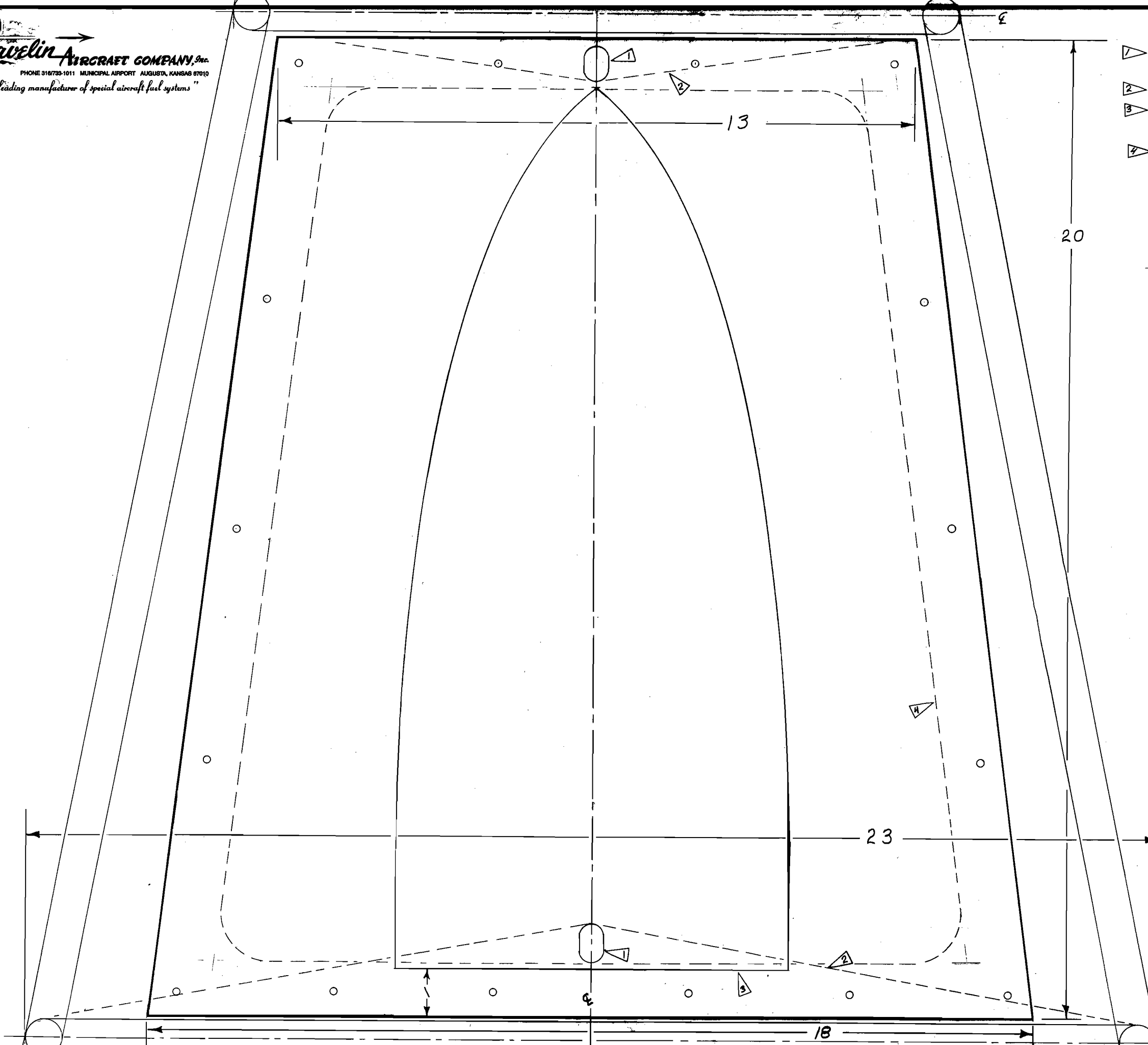


Javelin AIRCRAFT COMPANY, Inc.
 PHONE 318/733-1011 MUNICIPAL AIRPORT AUGUSTA, KANSAS 67010
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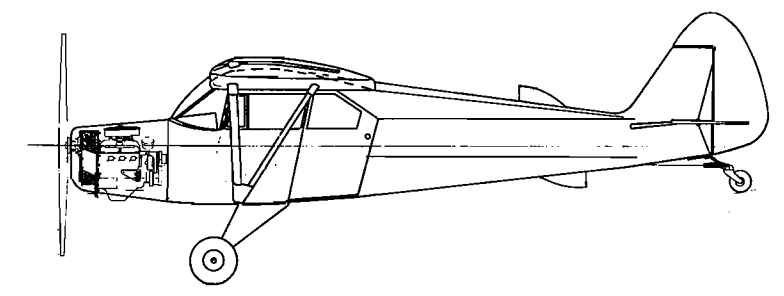


V6 STOL

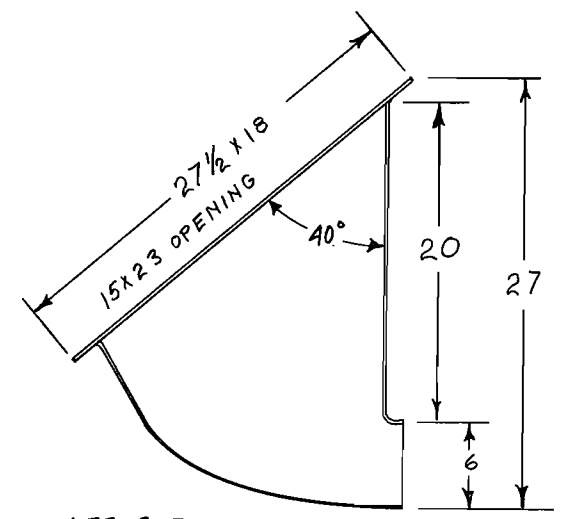
QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
SCALE	1/40	DRAWN BY	DAVID D. BLANTON	MODEL V6 STOL
TOLERANCE	± 1/8	CHECKED BY	"	JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS
		STRESS CHK.	R. FRIEDMAN	
DATE	MARCH 89	APPROVED BY	D. Blanton	
3 VIEW				DRAWING NO. 450 SHEET 0



- 1 TOP CENTER STRINGER 2 INCH HIGH FRONT 1 INCH HIGH REAR - THIS IS A FRONT VIEW.
- 2 3/4 INCH CLEAR WHITE PINE - FRONT VIEW
- 3 6 INCH X 8 INCH OPENING 18 INCH FAIRING 1 INCH MOUNTING FLANGE ALL FOUR SIDES
- 4 CUT OUT IN METAL FRAME 15 3/8 WIDE AT FRONT 10 7/8 WIDE AT REAR - 17 7/8 LONG



V6 STOL



453-3 BOTTOM SPILL
 1/8 SCALE 6X16 OUTLET
 1 1/2 FLANGE ALL FOUR SIDES

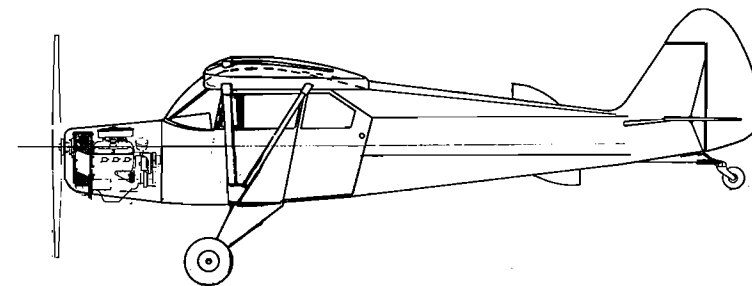


THESE PARTS ARE MADE BY
 RATTRAY AERO-PRODUCTS CO.
 2357 AFTON ROAD
 BELOIT WISCONSIN 53511
 PHONE 608-3624611

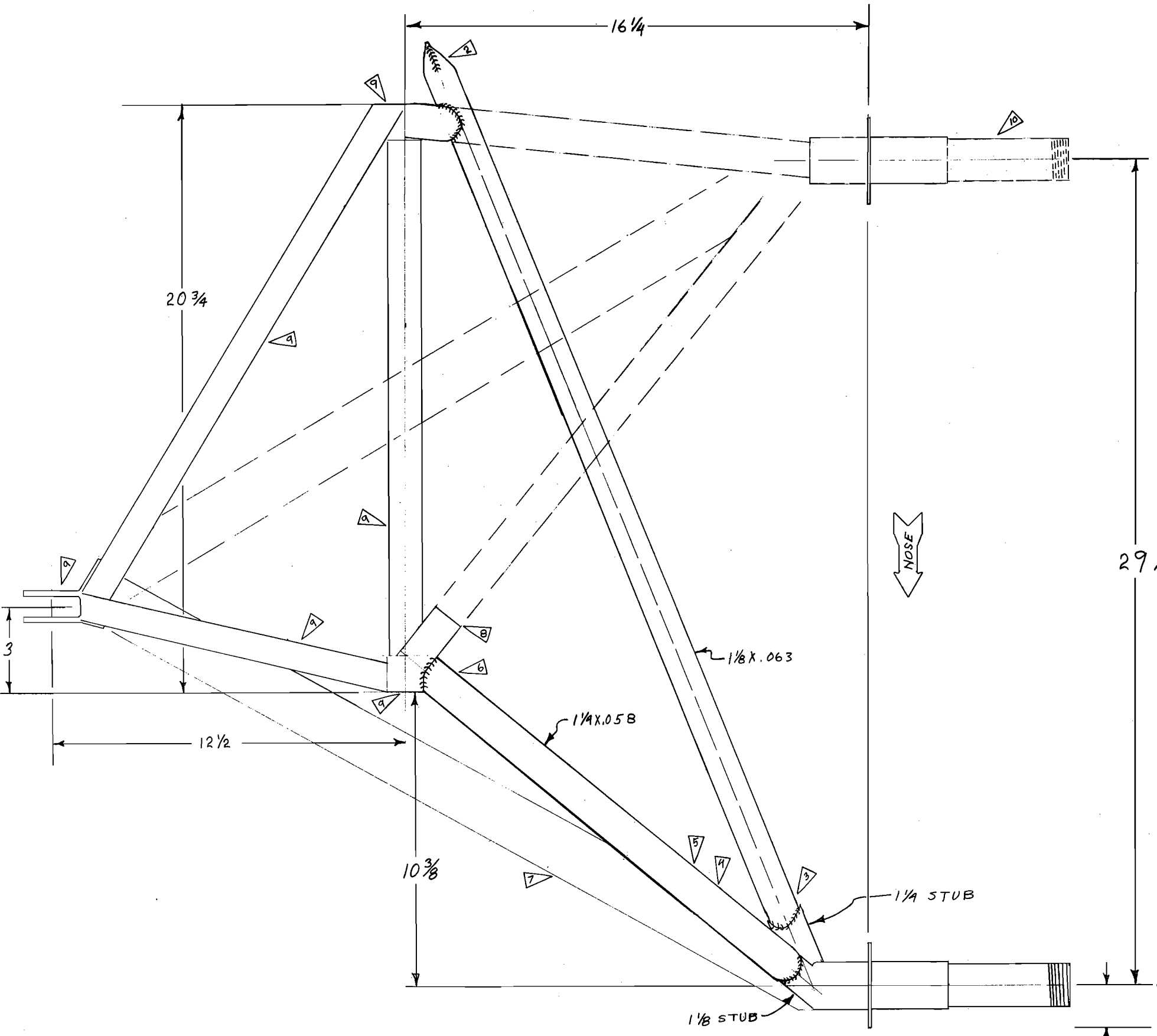
THIS DRAWING IS PHOTOGRAPHICALLY REDUCED
 50% FROM THE ORIGINAL TO ALLOW IT TO BE
 PRINTED BY OFFSET PRESS.

PART NUMBER 453-A

QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
	SCALE FULL	DRAWN BY D.D. BLANTON	MODEL V6 STOL	
	TOLERANCE ± 1/8	CHECKED BY "		
		STRESS CHK. "		JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS
	DATE FEB 89	APPROVED BY D. Blanton		
		TOP SCOOP	DRAWING NO. 452	SHEET 0



V6 STOL



TOP VIEW-LEFT LEG

MATERIAL NEEDED
TO MAKE BOTH SIDES
6' 1/4 X .058 4130
6' 1/8 X .063 4130
2" X 20" X .063 SHEET 4130

ORDER FROM
AIR PARTS KC KANSAS

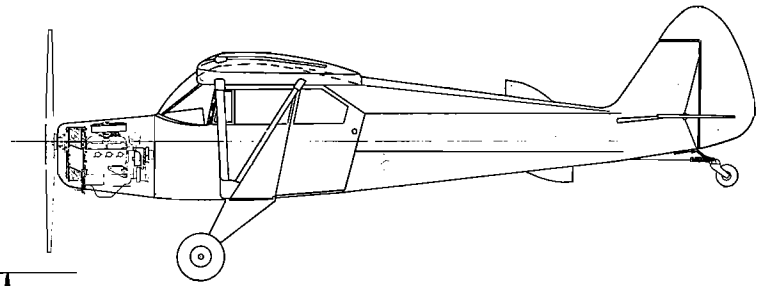


FLAG NOTES ARE IN BUILDERS MANUAL
PAGE 19



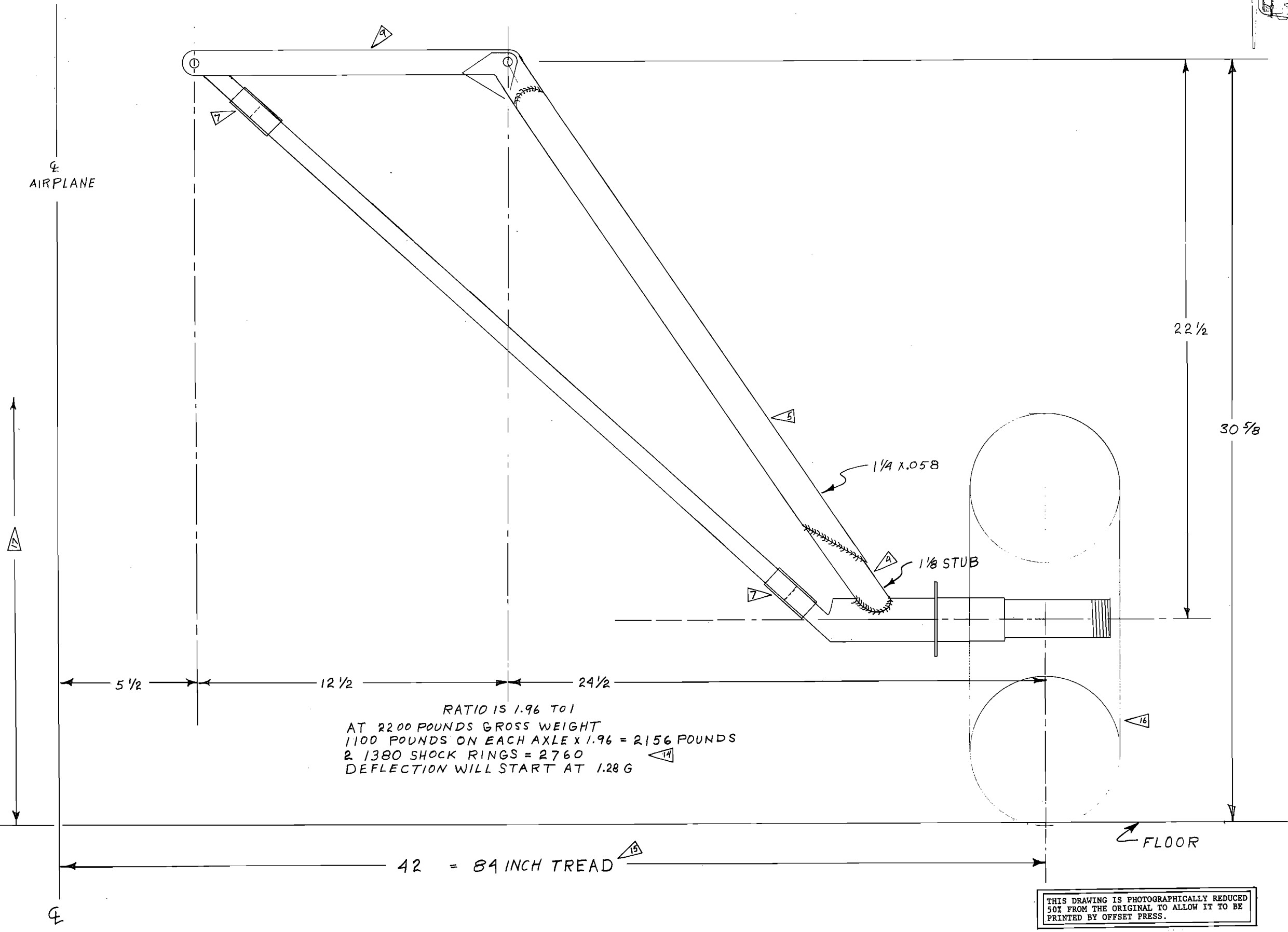
THIS DRAWING IS PHOTOGRAPHICALLY REDUCED
50% FROM THE ORIGINAL TO ALLOW IT TO BE
PRINTED BY OFFSET PRESS.

2	-2	REAR TUBE	1/8 X .063	4130
2	-1	FORWARD TUBE	1/4 X .058	4130
QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
SCALE	1/2	DRAWN BY D. D. BLANTON	MODEL	V6 STOL
TOLERANCE	± 1/16	CHECKED BY		
		STRESS CHK.		
DATE	FEB 89	APPROVED BY D. Blanton		
LANDING GEAR				JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS
				DRAWING NO. 454 SHEET 0



V6 STOL

Javelin AIRCRAFT COMPANY, Inc.
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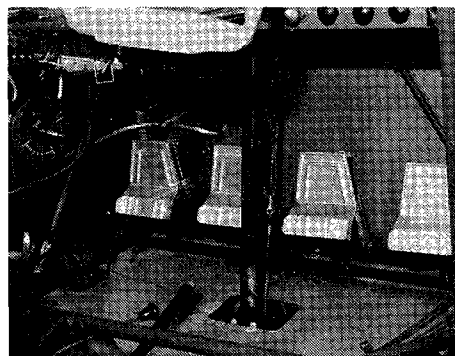
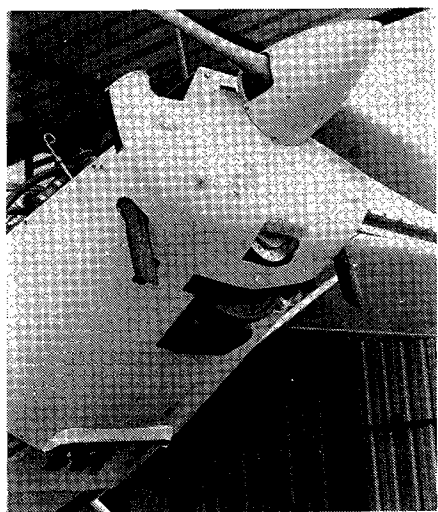
RATIO IS 1.96 TO 1
 AT 2200 POUNDS GROSS WEIGHT
 1100 POUNDS ON EACH AXLE x 1.96 = 2156 POUNDS
 2 1380 SHOCK RINGS = 2760
 DEFLECTION WILL START AT 1.28 G

FLAG NOTES ARE IN BUILDERS MANUAL
 PAGE 19

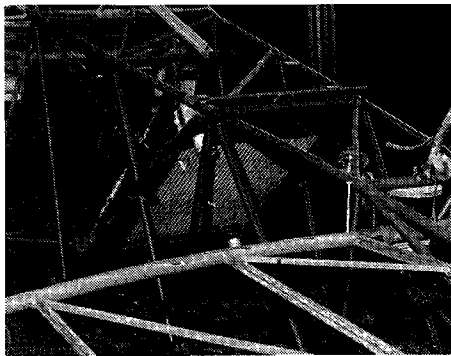


THIS DRAWING IS PHOTOGRAPHICALLY REDUCED
 50% FROM THE ORIGINAL TO ALLOW IT TO BE
 PRINTED BY OFFSET PRESS.

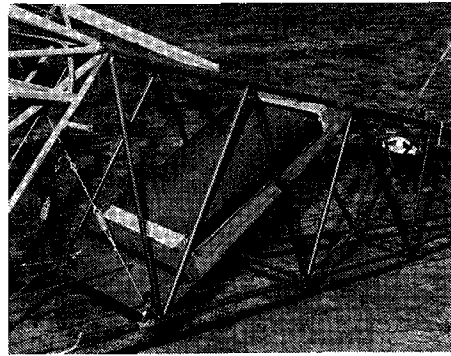
2	-2	REAR TUBE	1/8 x .063	4130	
2	-1	FORWARD TUBE	1/4 x .058	4130	
QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL	
SCALE 1/2	DRAWN BY	D. D. BLANTON	MODEL	V6 STOL	
TOLERANCE ± 1/16	CHECKED BY	"	JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS		
	STRESS CHK.	"			
DATE FEB. 89	APPROVED BY	D. D. Blanton			
LANDING GEAR				DRAWING NO. 456	SHEET 0



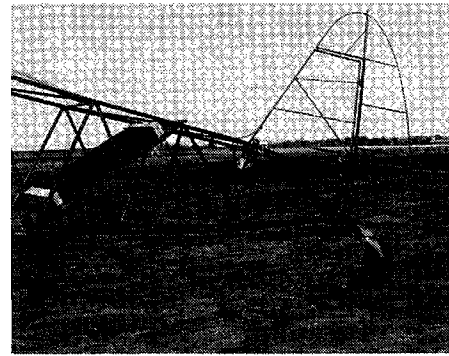
NEW TOE BRAKES ARE AVAILABLE FROM UNIVAIR. THEY OPERATE WITH CLEVELAND WHEELS AND BRAKES. IF YOU WANT TO SAVE MONEY KEEP THE WHEELS AND BRAKES YOU HAVE AND JUST ADD A RIGHT SIDE SCOTT MASTER CYLINDER FOR HEEL BRAKES.



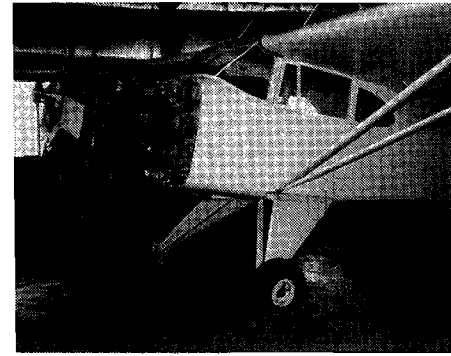
THE REAR FUSELAGE IS WASTE SPACE IN EVERY AIRPLANE, THIS IS A GOOD PLACE FOR THE RADIATOR AND IT PROVIDES BALANCE FOR THE 230HP ENGINE. YOU CAN TAXII FOREVER WITHOUT OVER-HEATING.



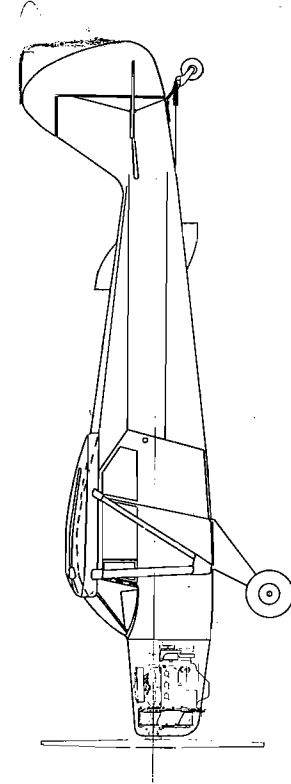
THIS IS AN IDEAL RADIATOR INSTALLATION THAT PROVIDES GOOD COOLING AND PUTS THE EMPTY WEIGHT C.G. WHERE IT BELONGS.



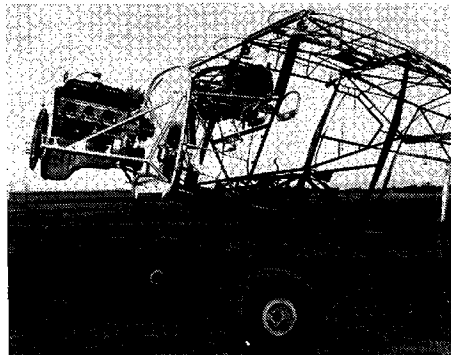
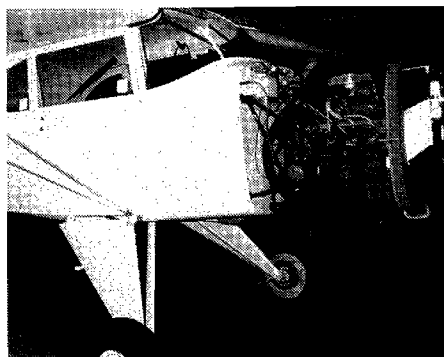
SEE THE TAIL WHEEL INSTALLATION (STEERING SPRINGS NOT INSTALLED YET) SEE STEERING CABLES OUT THE BOTTOM.



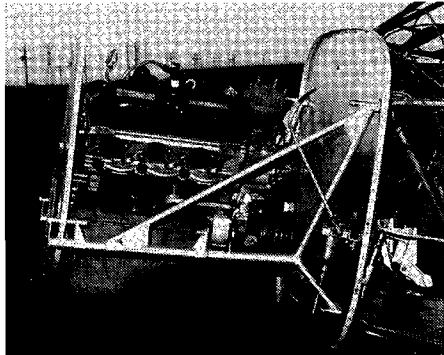
NOTICE THE WHITE BASE COAT, REGARDLESS OF WHAT COLOR IT'S GOING TO BE IN THE END. ANY COLOR SPRAYED ON SILVER WILL LOOK DULL.



WE LIKE FOR THE OIL PAN TO BE EXPOSED TO HELP COOL THE OIL. SEE THE FORWARD EXHAUST STACKS TO HELP GET THE NOISE OUT OF THE CABIN. THE NOSE COWL IN THIS CASE IS A PIPER PA-25 PAWNEE.

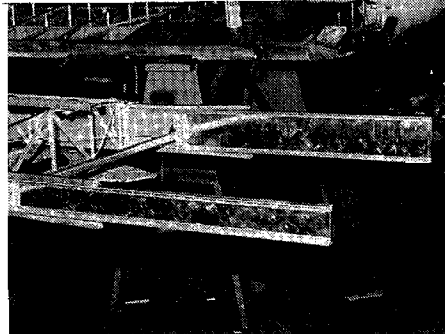


SEE THE 6 INCH x 800 TIRES FOR ROUGH FIELD OPERATIONS. SEE THE OIL SUMP, THIS WAS A REAR SUMP IN THE CAR. THE CARBURETOR SHOULD HAVE NUMBER 68 JETS DRILLED AND LOCKWIRED. NUMBER 85 POWER VALVE.

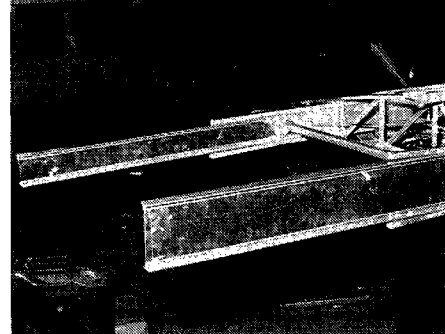


THE ENGINE MOUNT FOR THE 230V6 ENGINE IN THE V6 STOL IS AVAILABLE FROM JAVELIN AIRCRAFT COMPANY.

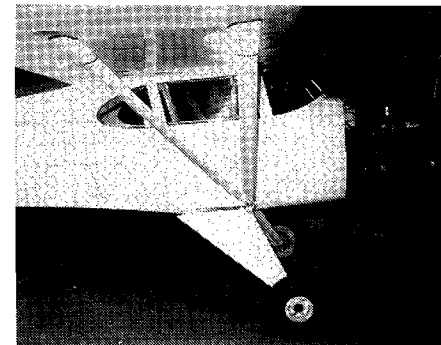
YOU CAN TELL THAT THE PICTURE WAS TAKEN ON AN AIRPORT BY ALL THE WIRES BEHIND THE T HANGERS.



SPAR EXTENSIONS AT THE TIP, REAR VIEW.



SPAR EXTENSION AT THE TIP, FRONT VIEW.



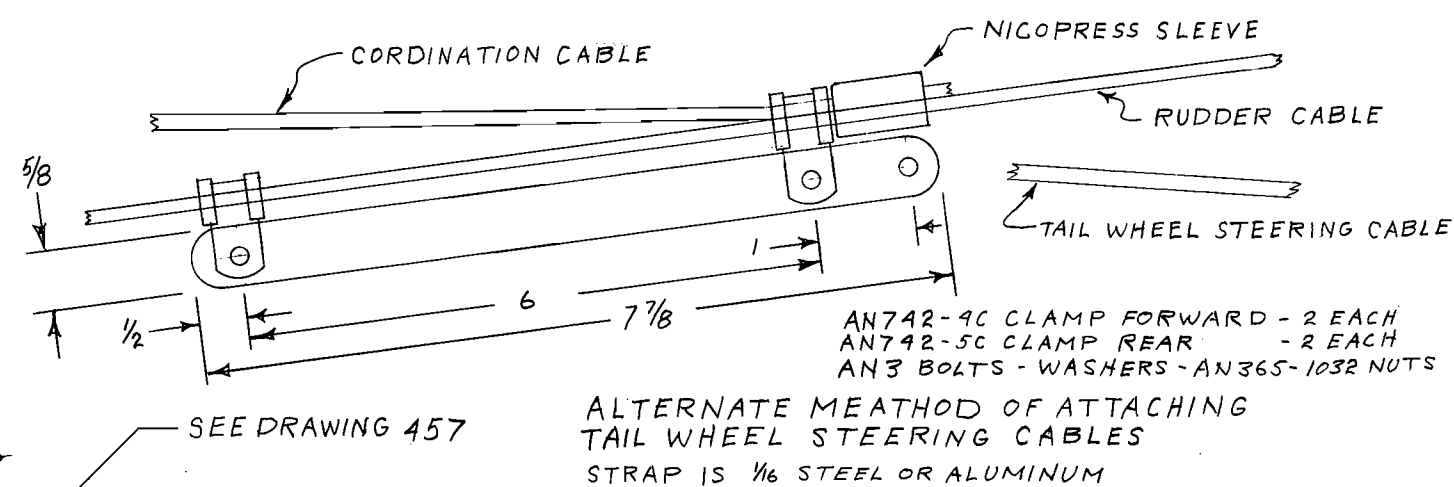
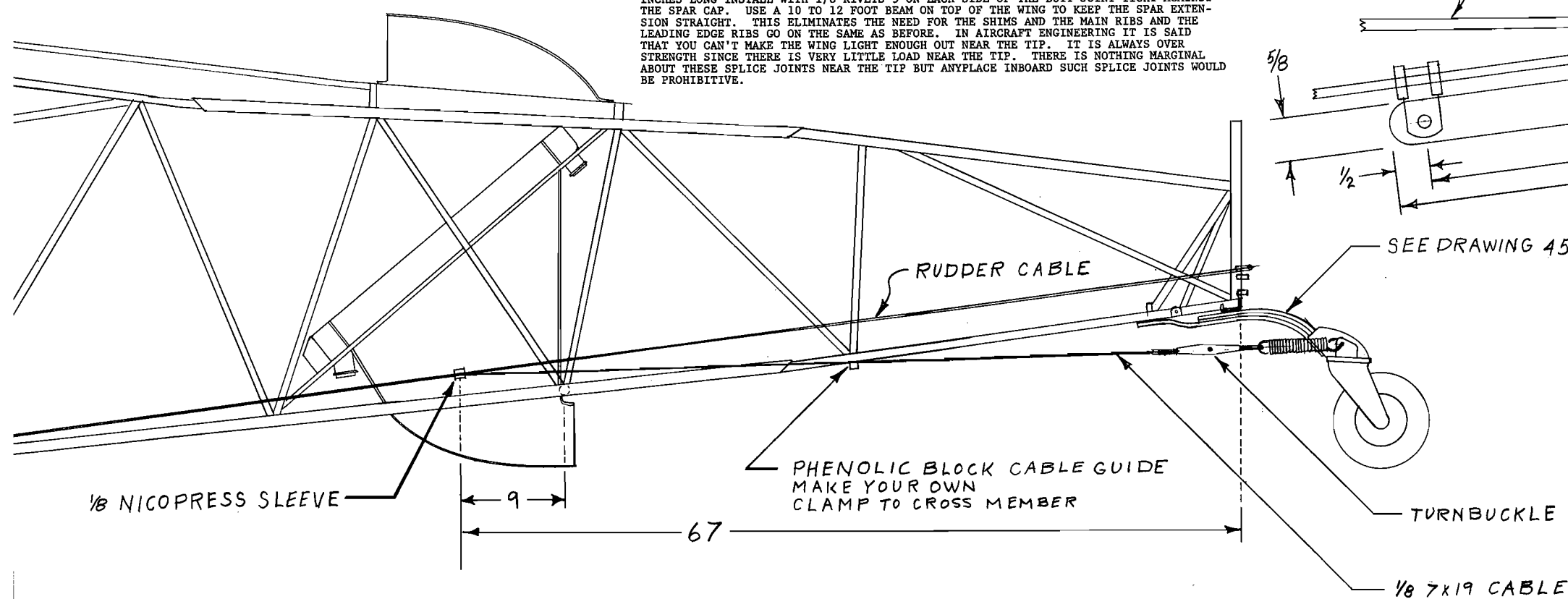
A BEAUTIFUL AIRPLANE THAT WILL CRUISE 130 MPH TRUE WITH FOUR PEOPLE AND BAGGAGE ON 6.8 GPH THATS 19 INCHES AND 4000 RPM ON THE ENGINE 2000 ON THE PROP. FOR GLIDER TOWING YOU MUST HAVE THE SEAPLANE PROPELLER M.F.C. 9055.

THE LANDING GEAR ANGLES FORWARD LIKE A JUNGMEISTER AND IT LOOKS GREAT. THE TOP OF THE LEGS ARE UNCHANGED.

NOTE FOR DRAWING 460:

IF YOU HAVE A SALVAGE WING PANEL AVAILABLE YOU CAN CUT OUT 29 INCH PIECES OF SPAR MATERIAL. ADDING THE SAME SPAR MATERIAL IS MUCH EASIER THAN BUILDING UP THE WEB AND SPAR CAPS AS SHOWN ABOVE. CUT OFF THE SPAR CAPS EVEN WITH THE BOTTOM OF THE HOLE IN THE WEB. FILE TO A PERFECT 90° FILE THE PART TO BE ADDED TO A PERFECT 90°. SPLICE THE PIECE ON WITH 3/8 X 3/4 X .095 ALUMINUM ANGLE. EIGHT PARTS REQUIRED 10 INCHES LONG INSTALL WITH 1/8 RIVETS 5 ON EACH SIDE OF THE BUTT JOINT TIGHT AGAINST THE SPAR CAP. USE A 10 TO 12 FOOT BEAM ON TOP OF THE WING TO KEEP THE SPAR EXTENSION STRAIGHT. THIS ELIMINATES THE NEED FOR THE SHIMS AND THE MAIN RIBS AND THE LEADING EDGE RIBS GO ON THE SAME AS BEFORE. IN AIRCRAFT ENGINEERING IT IS SAID THAT YOU CAN'T MAKE THE WING LIGHT ENOUGH NEAR THE TIP. IT IS ALWAYS OVER STRENGTH SINCE THERE IS VERY LITTLE LOAD NEAR THE TIP. THERE IS NOTHING MARGINAL ABOUT THESE SPLICE JOINTS NEAR THE TIP BUT ANYPLACE INBOARD SUCH SPLICE JOINTS WOULD BE PROHIBITIVE.

V6 STOL

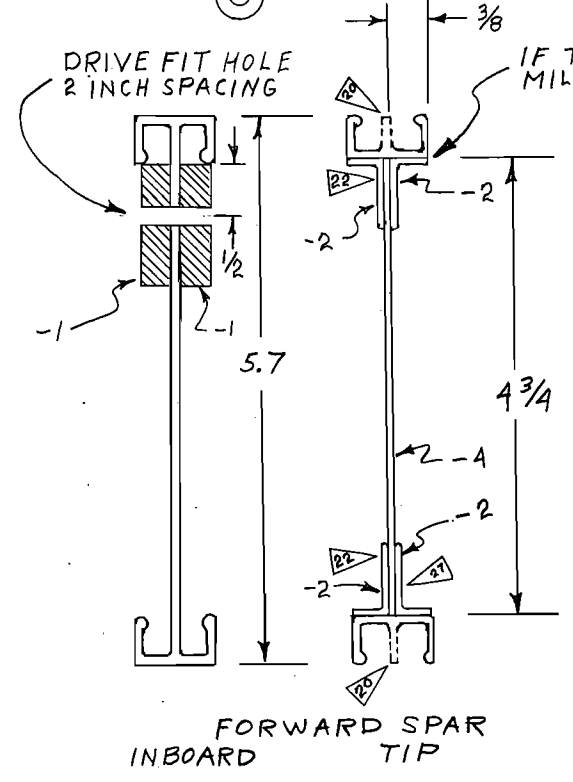
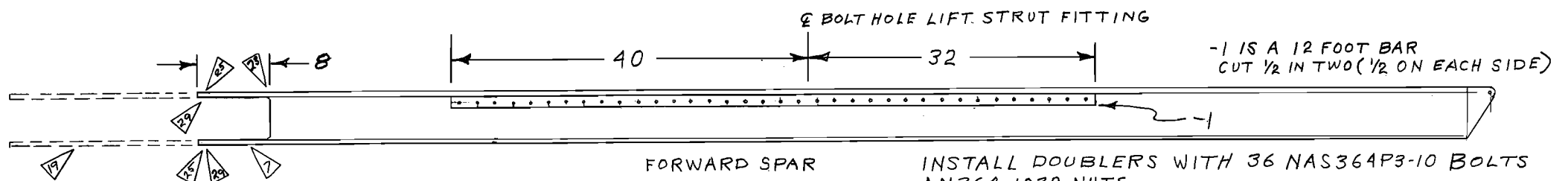
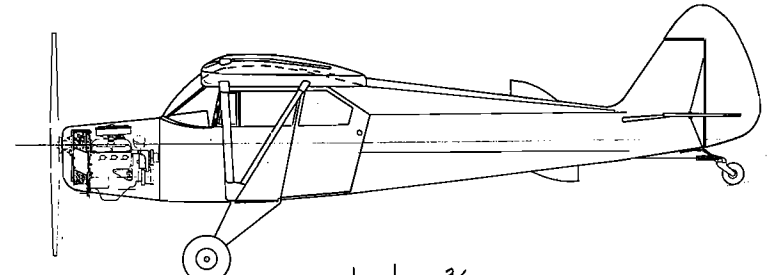


Javelin Aircraft Company, Inc.
PHONE 516/733-1011 MUNICIPAL AIRPORT AUGUSTA, KANSAS 67010
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SEE PAGE 27 OF THE BUILDERS MANUAL.

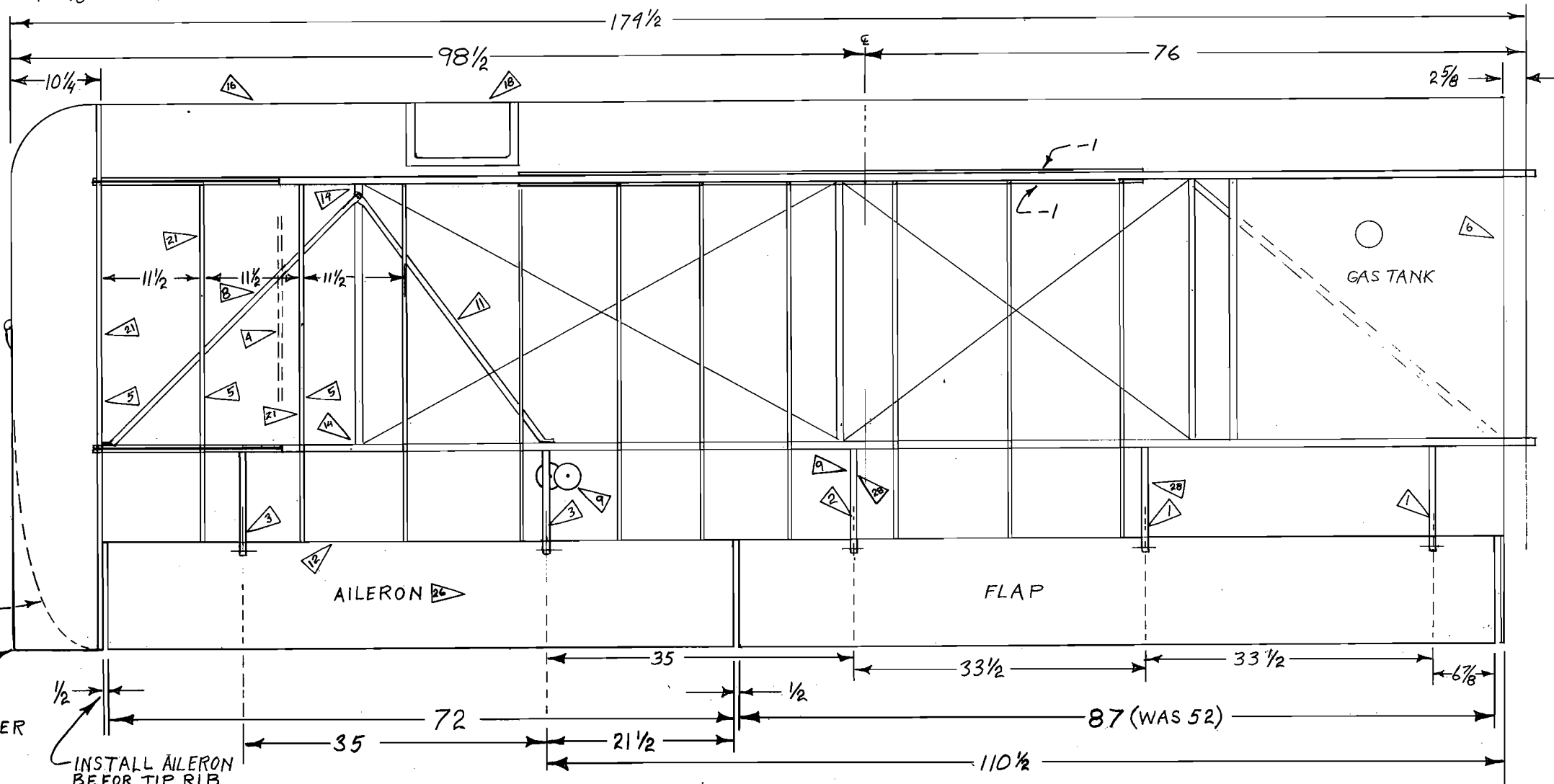
QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
SCALE 1/8" = FULL	DRAWN BY	D.D. BLANTON	MODEL	V6 STOL
TOLERANCE ± 1/16	CHECKED BY	"	JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS	
DATE APRIL 89	APPROVED BY	D. Blanton		
TAIL WHEEL STEERING			DRAWING NO. 458	SHEET 0

THIS DRAWING IS PHOTOGRAPHICALLY REDUCED 50% FROM THE ORIGINAL TO ALLOW IT TO BE PRINTED BY OFFSET PRESS.



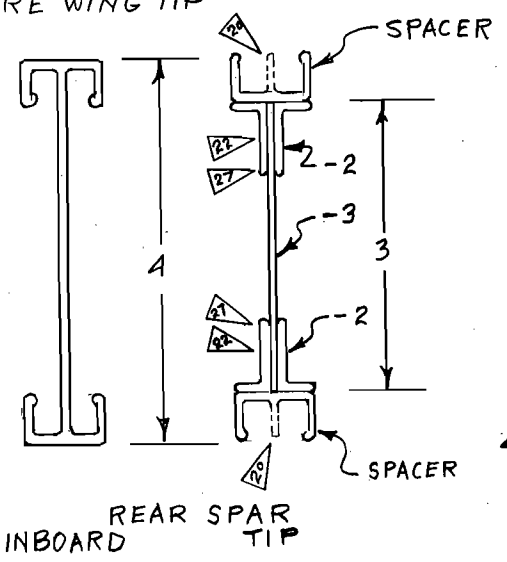
IF THE ANGLE YOU USE IS OVER SIZE MILL IT DOWN TO 3/8 BEFORE INSTALLATION.

INSTALL DOUBLERS WITH 36 NAS364P3-10 BOLTS AN364-1032 NUTS THESE DOUBLERS ARE NECESSARY TO INCREASE SPAN AND GROSS WEIGHT WITH THE SHORT LIFT STRUTS.



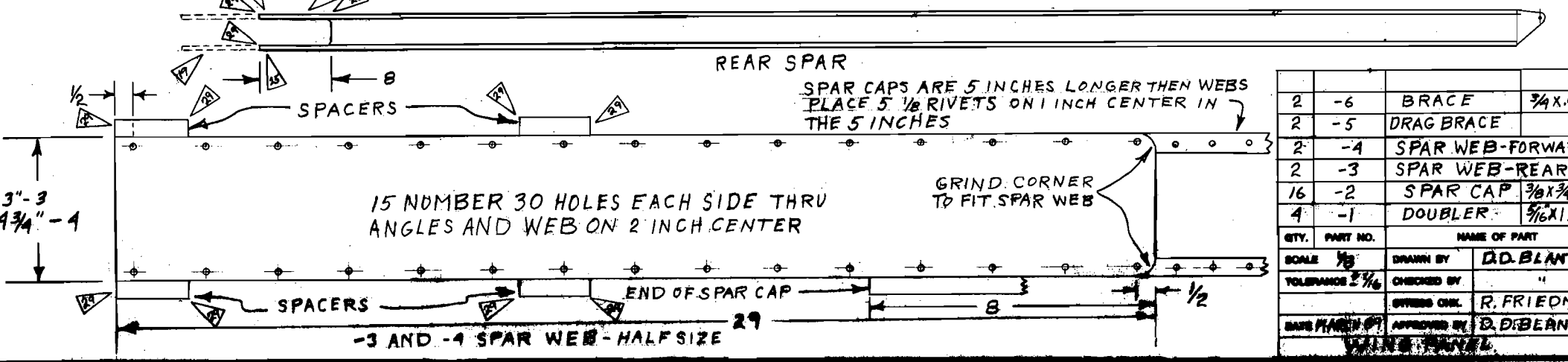
YOU MAY BE UNABLE TO FIND 3/8 X 3/4 X .095 ALUMINUM ANGLE FOR THE SPAR CAPS AND YOU WILL NEED TO BUY 1/2 X 3/4 X .095 OR 3/4 X 3/4 X .095. DO NOT FILE A NOTCH AND DISASSEMBLE THE RIBS AS DESCRIBED IN THE BUILDERS MANUAL (ITS A REAL MESS) YOU MUST PUT THE ANGLE ON A MILL AND CUT DOWN THE TOP LEG TO 3/8 INCH, CHAMFER THE EDGES 1/8 AT 45°. 6061T4 OR T6 IS A SATISFACTORY ALTERNATE.

HOERNER WING TIP BUY FROM WAG AERO INC. PART NUMBER M602000 INSTALL WITH METAL SCREWS COVER WITH FABRIC
RAT-RAY SQUARE WING TIP



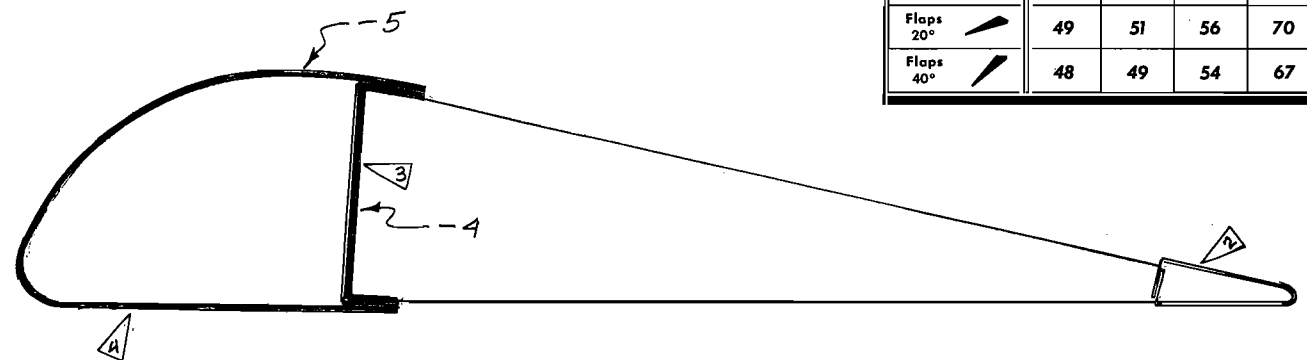
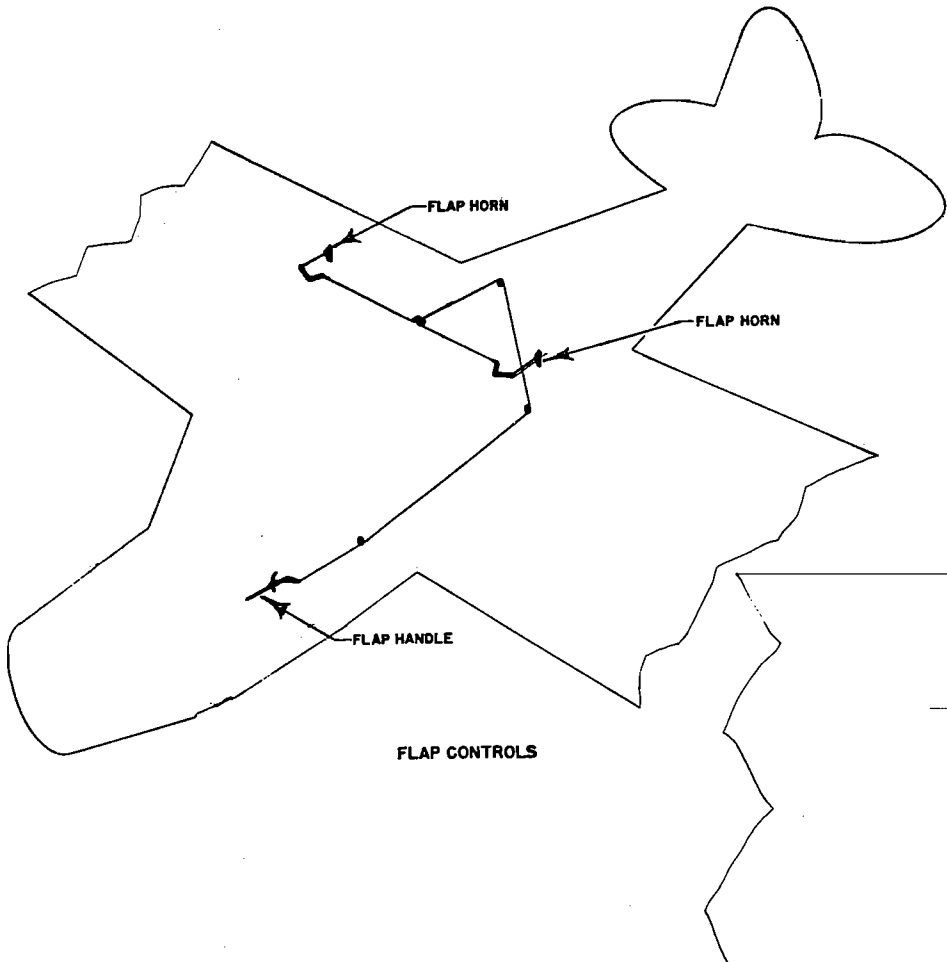
INSTALL AILERON BEFORE TIP RIB TO GET THE 1/2 INCH.

SPAR CAPS ARE 5 INCHES LONGER THEN WEBS PLACE 5 1/2 RIVETS ON 1 INCH CENTER IN THE 5 INCHES



SEE PAGE 23 OF THE BUILDERS MANUAL.

2	-6	BRACE	3/4x.035	4130
2	-5	DRAG BRACE		
2	-4	SPAR WEB-FORWARD	4 3/4x29x.063	6061T4
2	-3	SPAR WEB-REAR	3x29x.063	6061T4
16	-2	SPAR CAP	3/8x3/4x.095x34 1/2	2024T3
4	-1	DOUBLER	5/16x1 1/4x6	2024T3 OR 6061T4
QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
SCALE	1/8"	DRAWN BY	D.D. BLANTON	MODEL V6 STOL
TOLERANCE	± 3/16"	CHECKED BY	"	
DESIGNED BY		OWNERS ENG.	R. FRIEDMAN	JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS
		APPROVED BY	D.D. BLANTON	
				DRAWING NO. 460 SHEET 0

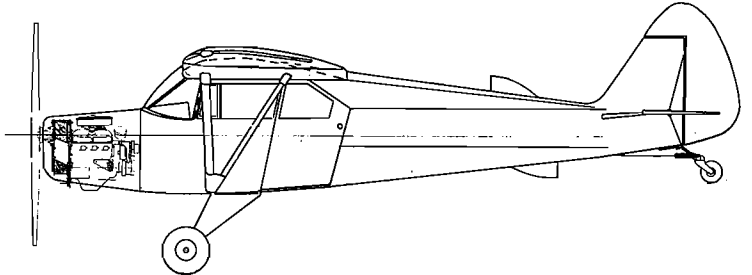
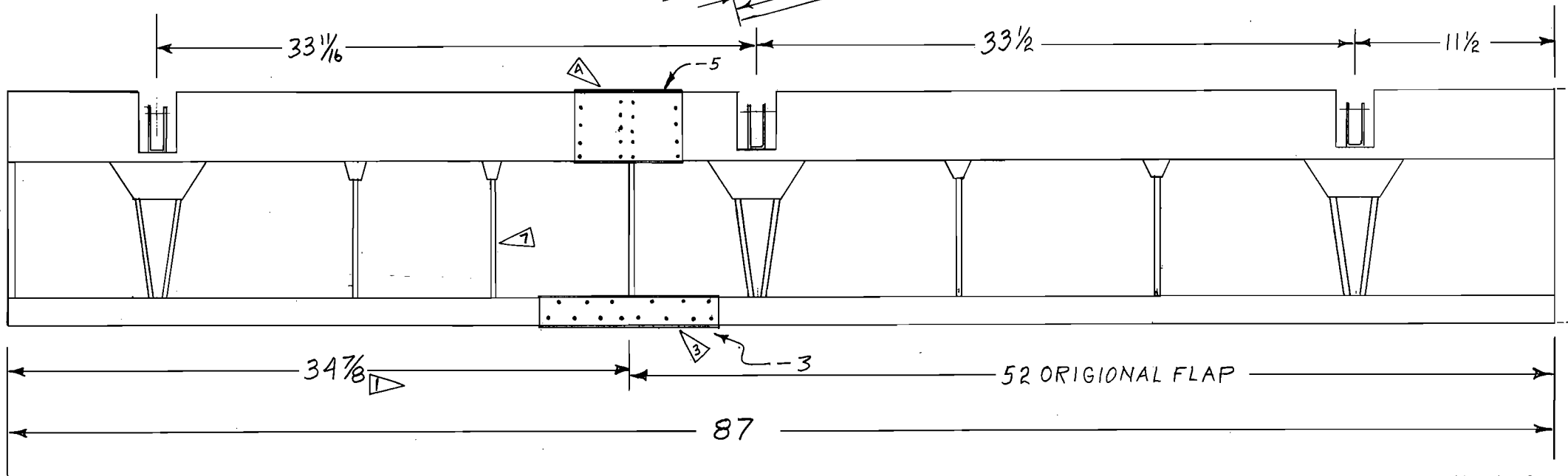
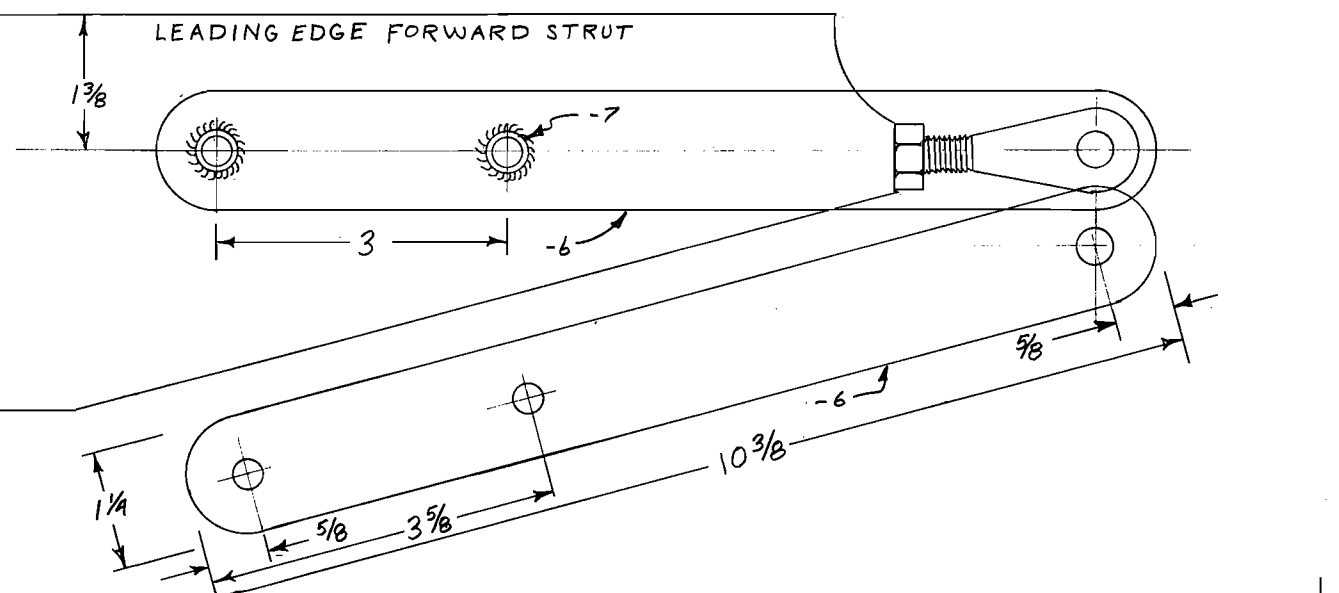


=Power Off= STALLING SPEEDS MPH - CAS				
Gross Weight 2200 lbs.	ANGLE OF BANK			
	0°	20°	40°	60°
Flaps Up	55	57	63	78
Flaps 20°	49	51	56	70
Flaps 40°	48	49	54	67

- 1 34 7/8 INCH LONG PART FROM SALVAGE FLAP OR AILERON.
- 2 FOLD UP A DOUBLER 10 INCHES LONG FROM .020 ALUMINUM 2024T3. INSTALL WITH 1/8 MONEL POP RIVETS. LAP OVER IN FRONT. RIVET IN FRONT.
- 3 REMOVE END RIB. FOLD UP A SPAR DOUBLER 10 INCHES LONG FROM .032 2024T3. DRILL OUT RIVETS, PUT DOUBLER IN PLACE AND REPLACE RIVETS. SHORTEN RIB AND PUT IT BACK IN PLACE. USE 1/8 POP RIVETS IN LEADING EDGE.
- 4 MAKE A DOUBLER 6 INCHES WIDE TO WRAP AROUND THE LEADING EDGE. REMOVE RIVETS AND PUT DOUBLER IN PLACE AND INSTALL WITH 1/8 MONEL POP RIVETS DOWN THE CENTER AND BOTH SIDES.
- 5 MODIFY WING FIRST, THEN INSTALL FLAP AT ROOT. BUILD THE 34 7/8 EXTENSION ON THE WING USING THE WING AS A JIG.
- 6 IF YOU DON'T HAVE SALVAGE PARTS TO ADD ONTO THE FLAP, YOU MUST DUPLICATE PARTS OR BUY THEM FROM UNIVAIR.
- 7 ADD A RIB IN CENTER OF THIS BAY.
- 8 AFTER THE AIRPLANE IS COVERED YOU MUST INSTALL THE FAIRING STRIP ONTO THE WING. THIS STRIP DOUBLES THE LIFT OF THE FLAPS FOR TAKE OFF.
- 9 THESE FLAPS ARE SPRING LOADED UP. THE VNE SPEED (VELOCITY NEVER EXCEED) ON THIS AIRPLANE IS 150 MPH. THIS SPEED MUST NEVER BE EXCEEDED. IF YOU DO, CATASTROPHIC FLAP FLUTTER WILL OCCUR. THE FLAPS WILL TEAR OFF AND YOU MAY NOT BE SUCCESSFUL IN LANDING THE AIRPLANE.

WING ASSEMBLY ORDER

1. Remove tip bow, short rib, and the full rib at the outboard end of the aileron. Remove and replace compression member as necessary. Remove the small doubler on the front spar.
2. Install the -1 doublers.
3. Install -3 and -4 spar web and -2 spar caps with 1/8 rivets. (If the material is over 3/8 you should mill it down to 3/8.)
4. Install 3 short ribs with the aileron cut out. Use a 10 to 12 foot beam on the wing to locate ribs vertically on the spar.
5. Install the aileron slot fairing material. Use parts from a salvage wing or make new parts.
6. Place aileron in place and install bolt at inboard bracket. Use aileron to locate position for the outboard bracket.
7. Install outboard tip rib that was removed in step number 1. Provide 1/2 inch clearance from the aileron. Be sure metal screws are installed to hold the rib, this is all that holds the new tip until the fabric is put on. Install three leading edge ribs.
8. Build the flaps to fit and not necessarily the 87 inch as shown by this drawing. You must have 1/2 inch clearance from the aileron. This will be 1/4 clearance when the flaps and ailerons are covered.
9. Install leading edge metal same as original. Install the flag 8 drag brace and install the flag 11 brace.
10. Carefully secure the position light and landing light wires.
11. Tape all joints with masking tape. Do not do anything on covering until you watch the STITS tape on covering.
12. Install inspection rings as the original except that the ones at the aileron pulleys will move outboard to the next bracket.



V6 STOL

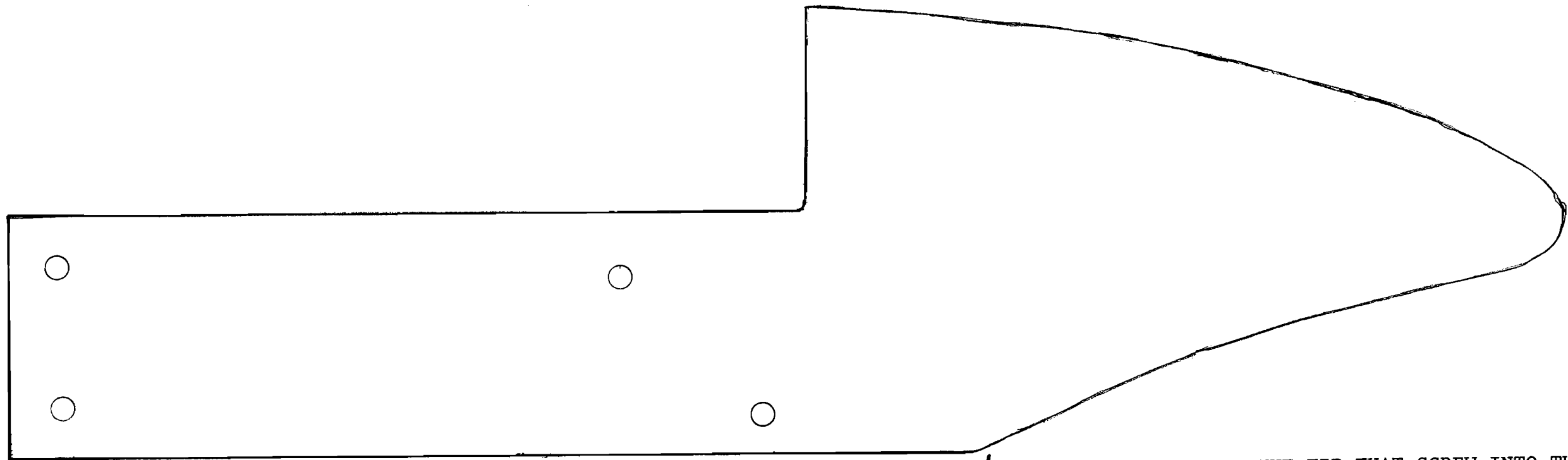
8	-7	BUSHING	7/16x.065	4130
8	-6	STRUT FITTING DOUBLER	.09 OR .095	4130N
2	-5	LEADING EDGE DOUBLER		
2	-4	SPAR DOUBLER		
2	-3	TRAILING EDGE DOUBLER		
1	-2	RIGHT FLAP		
1	-1	LEFT FLAP		
QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
SCALE 1/4" = FULL	DRAWN BY	D.D. BLANTON	MODEL	V6 STOL
TOLERANCE	CHECKED BY	"		
	STRESS CHK.	"		JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS
DATE APRIL 89	APPROVED BY	D. Blanton		
FLAP AND STRUT MODIFICATION				DRAWING NO. 462 SHEET 0

IF YOU USE A PIECE OF ANOTHER FLAP TO ADD ON TO YOUR FLAP YOU CAN HAVE A GAP OF 2 INCHES BETWEEN THE FLAP AND AILERON. MAKE A FILLER BLOCK TO THE FLAP CONTINUE 1 1/2 INCH THICK FROM WHITE PINE AND ATTACH WITH WOOD SCREWS TO THE FLAP. AFTER THE COVER IS ON IT WILL LOOK FINE.

SEE PAGE 27 AND 45 OF THE BUILDERS MANUAL.

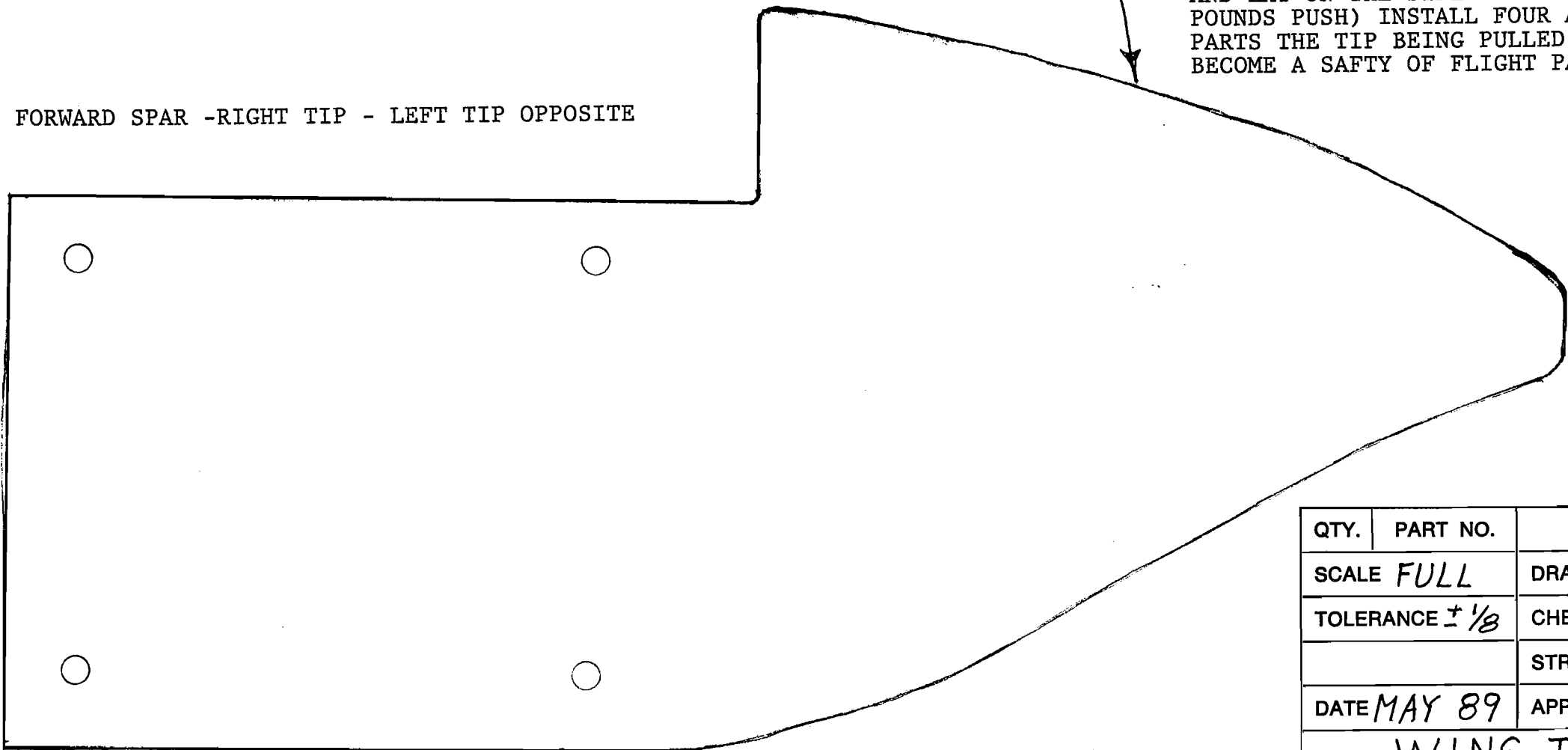


THIS DRAWING IS PHOTOGRAPHICALLY REDUCED 50% FROM THE ORIGINAL TO ALLOW IT TO BE PRINTED BY OFFSET PRESS.



REAR SPAR - RIGHT TIP - LEFT TIP OPPOSITE

CONTOUR TO FIT YOUR TIPS



FORWARD SPAR -RIGHT TIP - LEFT TIP OPPOSITE

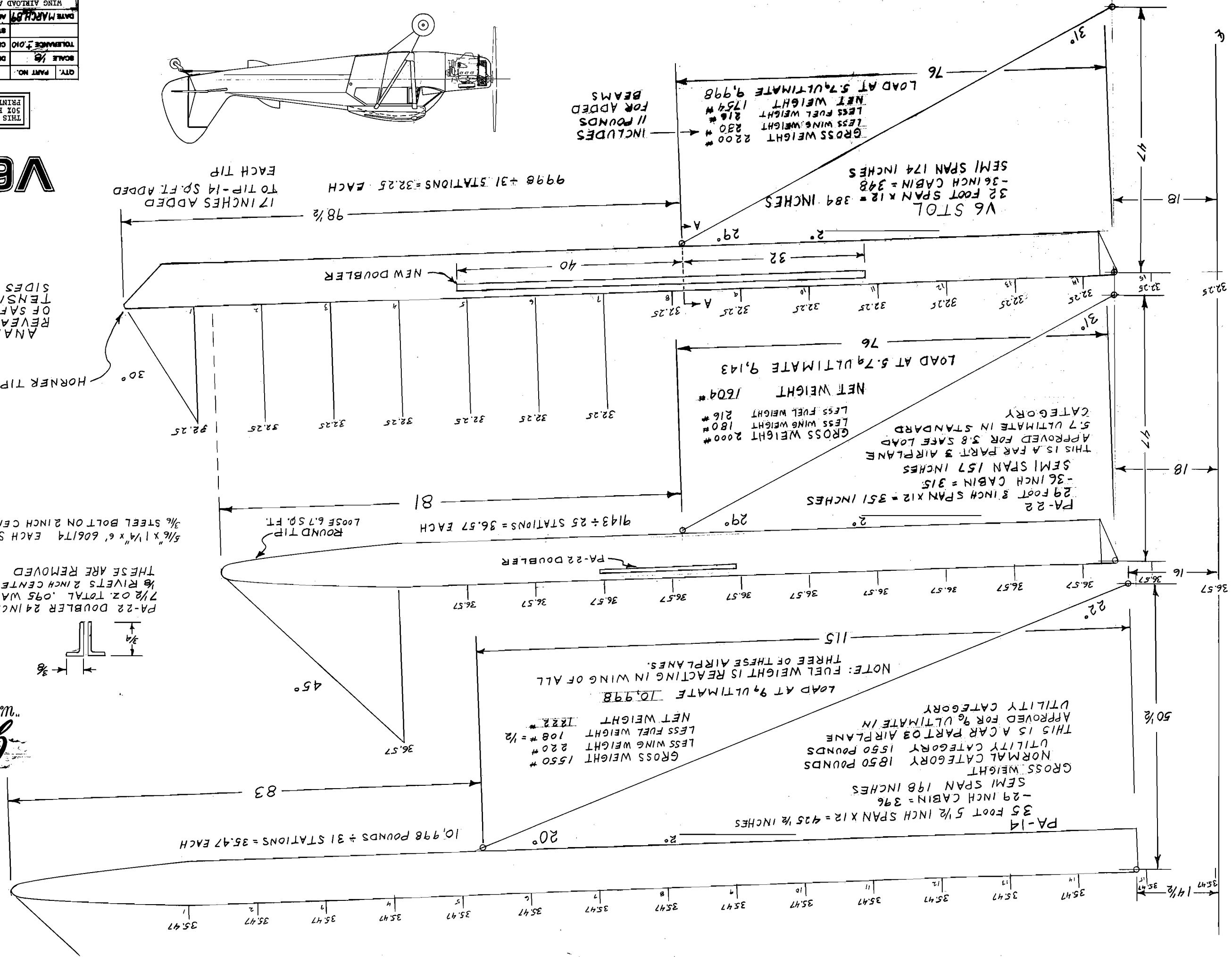
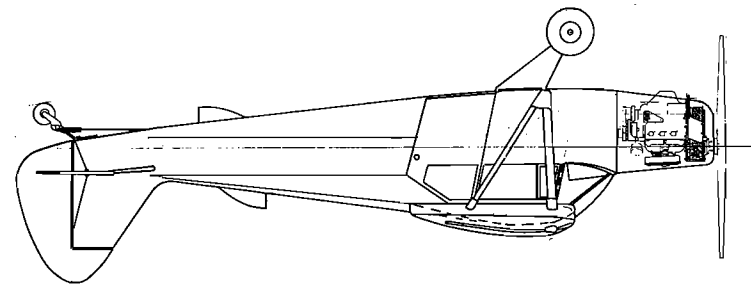
THE METAL SCREWS IN THE TIP THAT SCREW INTO THE TIP RIB ONLY HOLD IT IN PLACE WHILE YOU PUT THE FABRIC ON. ONCE THE AIRPLANE IS COVERED THE TIP IS HELD ON BY THE FABRIC. BUT AS THE FABRIC SHRINKS IT CAN PULL THE TIP INBOARD, THE LITTLE SCREWS IN THE RIB TO THE SPAR CANNOT HOLD THIS LOAD. THE RIB WILL DEFLECT AT LEAST 1/2 INCH. YOU MUST MAKE TWO PLYWOOD PARTS FOR EACH WING TIP FROM 3/8 FIR PLYWOOD THAT FIT INSIDE THE FIBERGLASS TIP AND LAY ON THE SIDE OF THE SPAR. WITH THESE PARTS PUSHED OUT TIGHT (50 POUNDS PUSH) INSTALL FOUR AN3 BOLTS IN EACH ONE. IF YOU DON'T INSTALL THESE PARTS THE TIP BEING PULLED INBOARD WILL JAM THE AILERON. THESE PARTS BECOME A SAFTY OF FLIGHT PART SO DO A GOOD JOB.

QTY.	PART NO.	NAME OF PART		SIZE GAUGE	MATERIAL
	SCALE FULL	DRAWN BY	D.D. BLANTON	MODEL V6 STOL	
	TOLERANCE $\pm 1/8$	CHECKED BY	"	JAVELIN AIRCRAFT CO. INC. WICHITA, KANSAS	
		STRESS CHK.	"		
	DATE MAY 89	APPROVED BY	D. Blanton		
WING TIP SUPPORTS				DRAWING NO. 469	SHEET 0

QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
SCALE	1/8"	D.O. BLANTON	V6 STOL	
TOLERANCE	±.010	CHECKED BY		
STRESS CHK.	H. Blanton	APPROVED BY		
DATE	MARCH 29	WING AIRLOAD AND STRESS ANALYSIS		

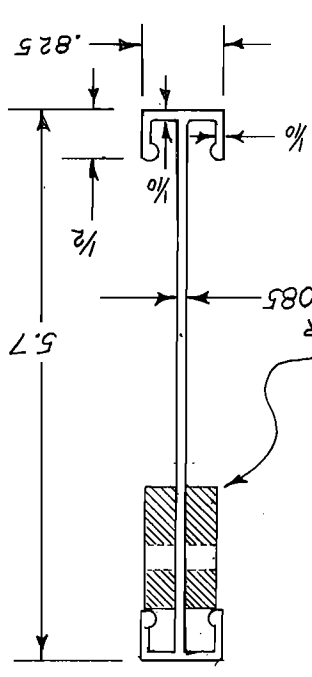
THIS DRAWING IS PHOTOGRAPHICALLY REDUCED 50% FROM THE ORIGINAL TO ALLOW IT TO BE PRINTED BY OFFSET PRESS.

V6 STOL



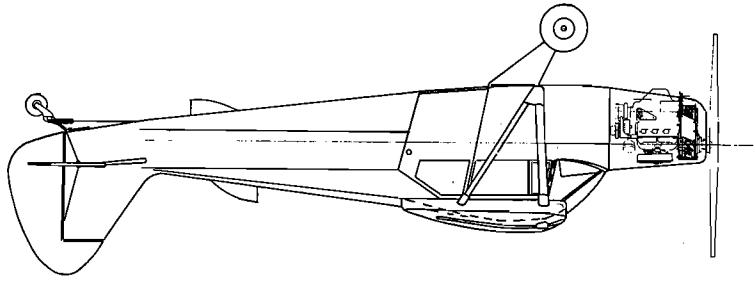
ANALYSIS OF SECTION A-A REVEALED POSITIVE MARGINS OF SAFETY ON BOTH THE TENSION AND COMPRESSION SIDES OF SPAR.

SECTION A-A



Garwin Aircraft Company, Inc.
 "World's leading manufacturer of special aircraft fuel systems"
 PHONE 318/733-1011 MUNICIPAL AIRPORT AUSTRALIA, KANSAS 67010

ALUMINUM BAR WEIGHT 5/16" x 1 1/4" x 12' = 5.52 POUNDS
 5/16" x 1 1/2" x 12' = 6.62 POUNDS
 AVAILABLE FROM EARL M. JORGENSEN CO. THEY HAVE 22 WAREHOUSES NATION WIDE.



V6 STOOL

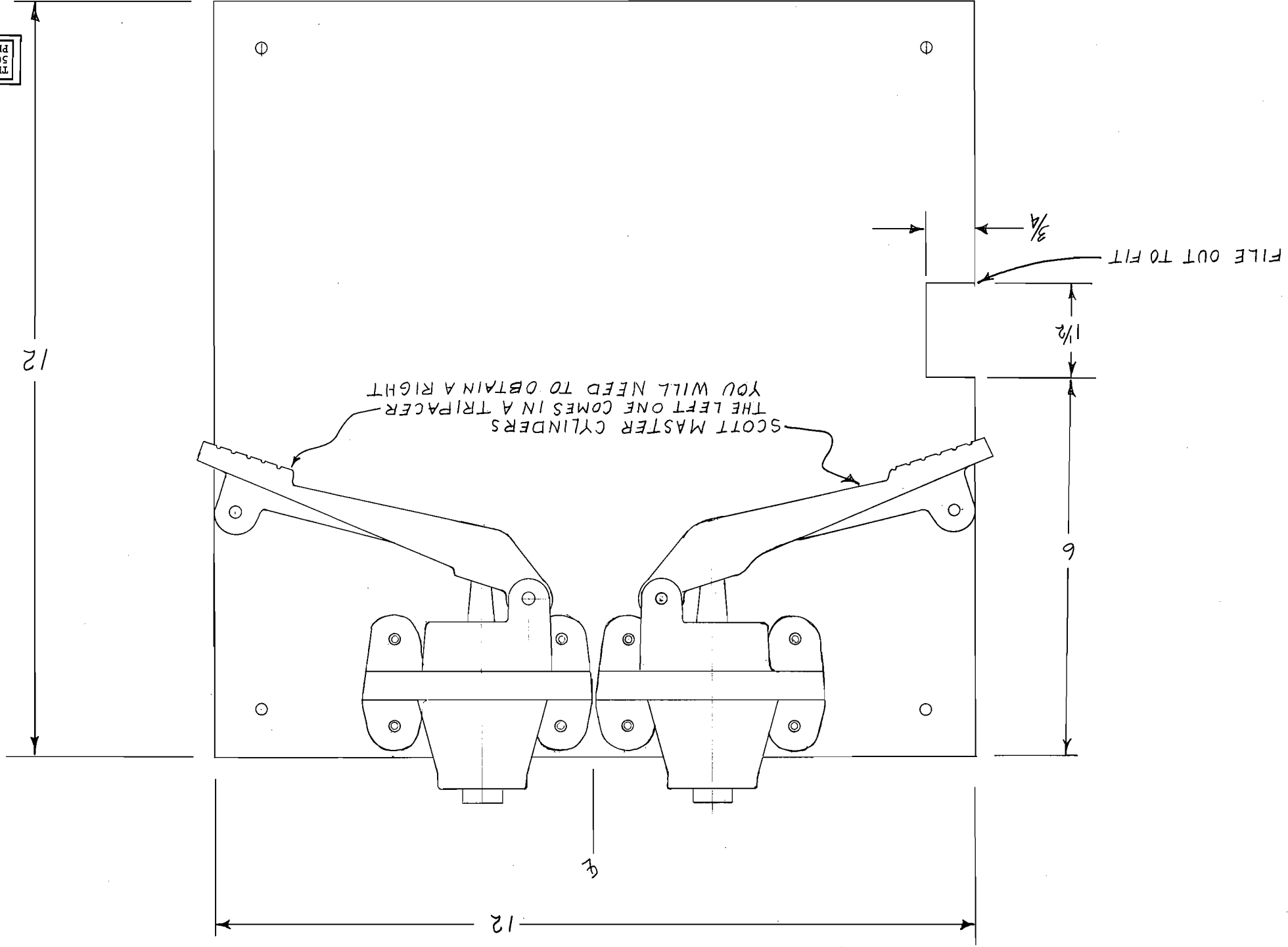
Jayelin Aircraft Company, Inc.
 PHONE 318733-1011 MUNICIPAL AIRPORT AUGUSTA, KANSAS 67010
 "World's leading manufacturer of special aircraft fuel systems"



COUNTER SINK THE FOUR CORNER HOLES
 CLEAN CARPET HARDWARE FROM FLOOR
 BOLT PLATE TO FLOOR
 INSTALL 8 AN3 BOLT THROUGH EXISTING FLOOR
 TO MOUNT CYLINDERS.

PLATE SHOULD BE BUFFED AND POLISHED
 INSTALL ON LEFT SIDE IN FRONT OF PILOT

SEE PAGE 20 OF THE BUILDERS MANUAL



THIS DRAWING IS PHOTOGRAPHICALLY REDUCED
 50% FROM THE ORIGINAL TO ALLOW IT TO BE
 PRINTED BY OFFSET PRESS.

QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
1	-1	PLATE	1/8	HARD ALUM
SCALE	FULL	DRAWN BY	D. D. BLANTON	MODEL
TOLERANCE	± 1/8	CHECKED BY	"	V6 STOOL
STRESS CHK.	"	APPROVED BY	D. Blanton	JAYELIN AIRCRAFT CO. INC.
DATE	FEB 89	WICHITA, KANSAS		
DRAWING NO. 459 SHEET 0				

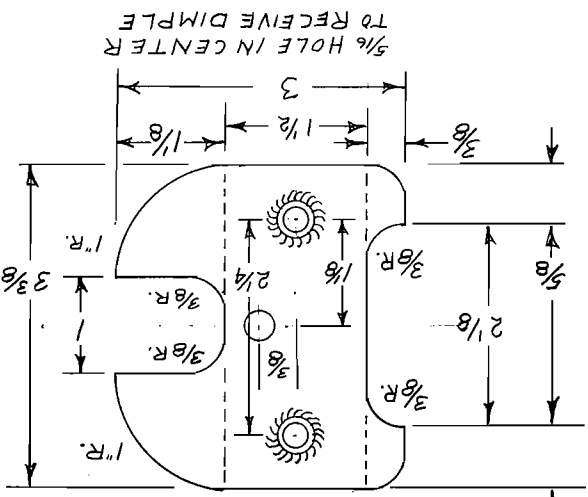


NOTE: TOW HITCH MAY BE USED FOR:
 HAND PROPPING
 GROUND RUNNING
 GLIDER TOWING
 BANNER TOWING

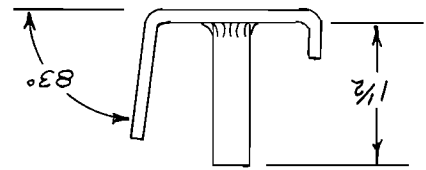
NOTE: ALWAYS LEAVE HITCH OPEN EXCEPT WHEN IN USE. IT WILL RUIN THE RUBBER IF LEFT CLOSED.

DRILL ONE 3/8" DIA. HOLE IN CENTER OF FUSelage TO RECEIVE DIMPLE OF TAIL SPRING.

TAIL WHEEL STEERING SPRINGS
 7 1/4" LENGTH 1 1/4" DIA. 33 COILS 157 WIRE 3/4# PRELOAD
 30# MINIMUM 35# MAXIMUM
 WEAKER SPRING WILL NOT STEER AND WILL ALLOW GROUND LOOP.



TAIL WHEEL BRACKET
 1/8" 4130 - 3/8x.063x1 1/2 BUSHINGS
 REAM 1/4 AFTER WELDING



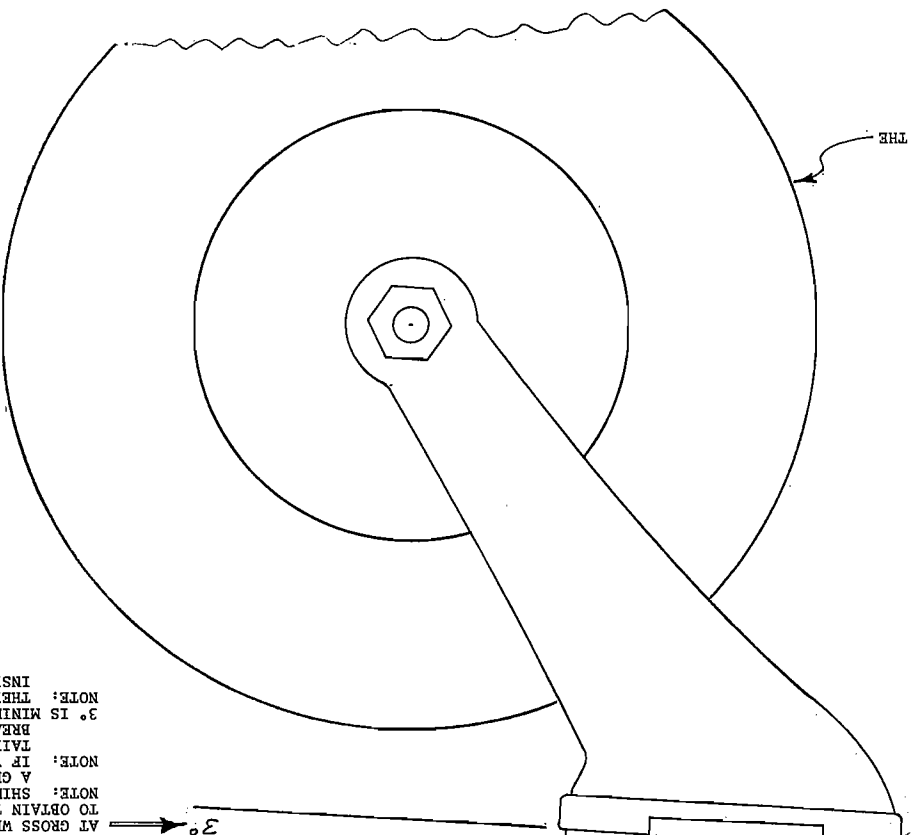
AT GROSS WEIGHT, RE-ARCH EACH LEAF AS NECESSARY TO OBTAIN THIS ANGLE TO PREVENT SHIMMY.
 NOTE: SHIMMY WILL UNLOCK TAIL WHEEL AND ALLOW A GROUND LOOP.
 NOTE: IF YOU DON'T HAVE THIS NEGATIVE ANGLE THE TAIL WHEEL WILL SHIMMY SO VIOLENT IT WILL BREAK STRUCTURE.
 NOTE: THERE MUST BE SIX SHIMMY DAMPENER SPRINGS INSIDE THE TAIL WHEEL.
 MAKE A STEEL BLOCK 1 1/2" WIDE WITH 1/8" R. CORNERS. DRILL TWO 1/4" HOLES. MAKE TAIL WHEEL BRACKET FROM 1/8" 4130 STEEL.
 BOLT BRACKET TO BLOCK. HEAT BRACKET TO CHERRY RED AND FORM. MAKE TWO BUSHINGS FROM 3/8x.063 4130 STEEL.
 DRILL 2 1/4" HOLES IN BRACKET.
 INSTALL 1/4" BOLTS AND WELD AS SHOWN. HEAT AND DENT TUBES IN FUSelage UNTIL BRACKET WILL SLIDE IN PLACE.
 WITH THE CABIN LEVEL, USE A BUBBLE TO SET BRACKET LEVEL - CLAMP IN PLACE.
 WELD UP TAIL POST IN REAR - WELD ALONG EACH LANGERON - WELD THE TWO BUSHINGS TO THE LANGERON.
 USE THE SAME FORM BLOCK TO FORM THE TAIL SPRING BRACKET.
 USE THE TAIL WHEEL BRACKET TO HOLD THE BUSHINGS TO WELD.
 CLEAN AND PAINT ALL PARTS WITH PRIMER AND FINISH COAT.
 SEE PAGE 27 OF THE BUILDERS MANUAL.

QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
1	-2	TAIL SPRING BRACKET	1/8"	4130
1	-1	TAIL WHEEL BRACKET	1/8"	4130

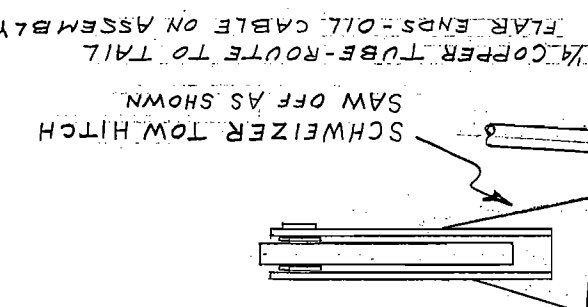
SCALE FULL
 DRAWN BY D.D. BLANTON
 MODEL V6 STOL
 TOLERANCE ± 1/16"
 CHECKED BY
 STRESS CHK.
 APPROVED BY
 DATE FEB. 1989
 TAIL WHEEL INSTALLATION
 DRAWING NO. 457 SHEET 0

V6 STOL

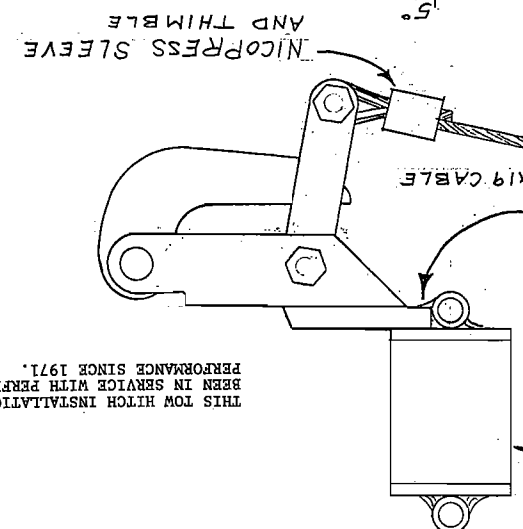
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3200 SERIES
 8" SCOTT TAIL WHEEL (MANY DOLLARS BUT THIS IS THE ONLY ONE TO USE DUE TO SHIMMY DAMPENER).



1/4 COPPER TUBE - ROUTE TO TAIL FLARE ENDS - OIL CABLE ON ASSEMBLY
 SCHWEIZER TOW HITCH
 SAW OFF AS SHOWN



THIS TOW HITCH INSTALLATION HAS BEEN IN SERVICE WITH PERFECT PERFORMANCE SINCE 1971.

1/2" NAS SOCKET HEAD TENSION BOLT
 LARGE STEEL WASHER AT BOTTOM
 AN365-820 NUT. NOTE: AN BOLT IS NOT ADEQUATE TO MOUNT TAIL WHEEL AND THIMBLE
 NICO PRESS SLEEVE

NOTE: This drawing shows the Wichawk tail spring for your V6 Stol, use the standard 3-428 tail spring with 3 leaves. You can add another 2 leaf if you need it. Cessna and Piper springs are too narrow.

AN4-31A BOLT
 AN960D416 WASHER
 AN365-428 NUT

ANG-21A BOLT
 AN960D616 WASHER
 AN365-624 NUT

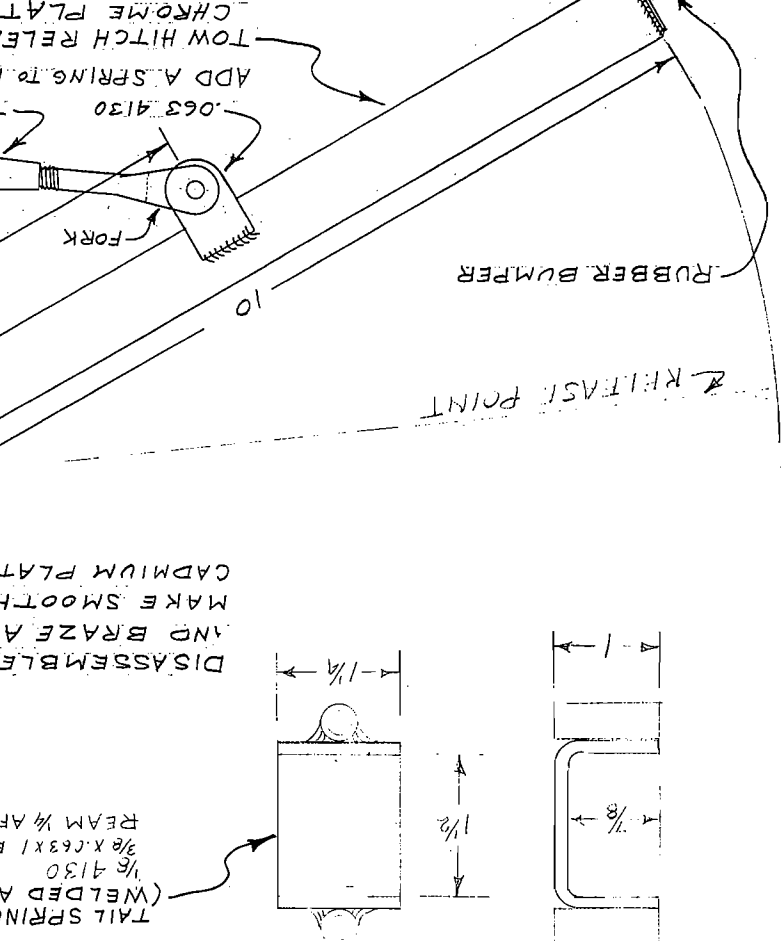
1/4 COPPER TUBE FOR RELEASE CABLE

TAIL WHEEL BRACKET

REAR 1/4 AFTER WELDING
 1/8 4130 (WELDED ASSEMBLY)
 3/8x.063x1 1/2 BUSHINGS

DISASSEMBLE TOW HITCH AND BRAZE AS SHOWN MAKE SMOOTH FILLET CADMIUM PLATE ASSEMBLY
 1/16x4 WELD 90°

TAIWHEEL BRACKET



LEAF ARE 1/2" WIDE
 TOP LEAF ARE NOT SLOTTED
 LEAF 3/8" (BOLT WILL SHEAR IF TO MOUNT TAIL WHEEL - SLOT TWO TOP ONLY BOTTOM LEAF HAS ROUND HOLE
 CHAMPION 3-428 ONE-1 TWO-2 ONE-3 ROUTE 3 BOX 59 AURORA COLORADO 80010 UNVAIR AIRCRAFT CORPORATION

REAR 1/4 AFTER WELDING
 1/8 4130 (WELDED ASSEMBLY)
 3/8x.063x1 1/2 BUSHINGS

DISASSEMBLE TOW HITCH AND BRAZE AS SHOWN MAKE SMOOTH FILLET CADMIUM PLATE ASSEMBLY
 1/16x4 WELD 90°

THIS TOW HITCH INSTALLATION HAS BEEN IN SERVICE WITH PERFECT PERFORMANCE SINCE 1971.

1/2" NAS SOCKET HEAD TENSION BOLT
 LARGE STEEL WASHER AT BOTTOM
 AN365-820 NUT. NOTE: AN BOLT IS NOT ADEQUATE TO MOUNT TAIL WHEEL AND THIMBLE
 NICO PRESS SLEEVE

NOTE: THIS DRAWING SHOWS THE WICHAWK TAIL SPRING FOR YOUR V6 STOL, USE THE STANDARD 3-428 TAIL SPRING WITH 3 LEAVES. YOU CAN ADD ANOTHER 2 LEAF IF YOU NEED IT. CESSNA AND PIPER SPRINGS ARE TOO NARROW.

ANG-21A BOLT
 AN960D616 WASHER
 AN365-624 NUT

1/4 COPPER TUBE FOR RELEASE CABLE

TAIL WHEEL BRACKET

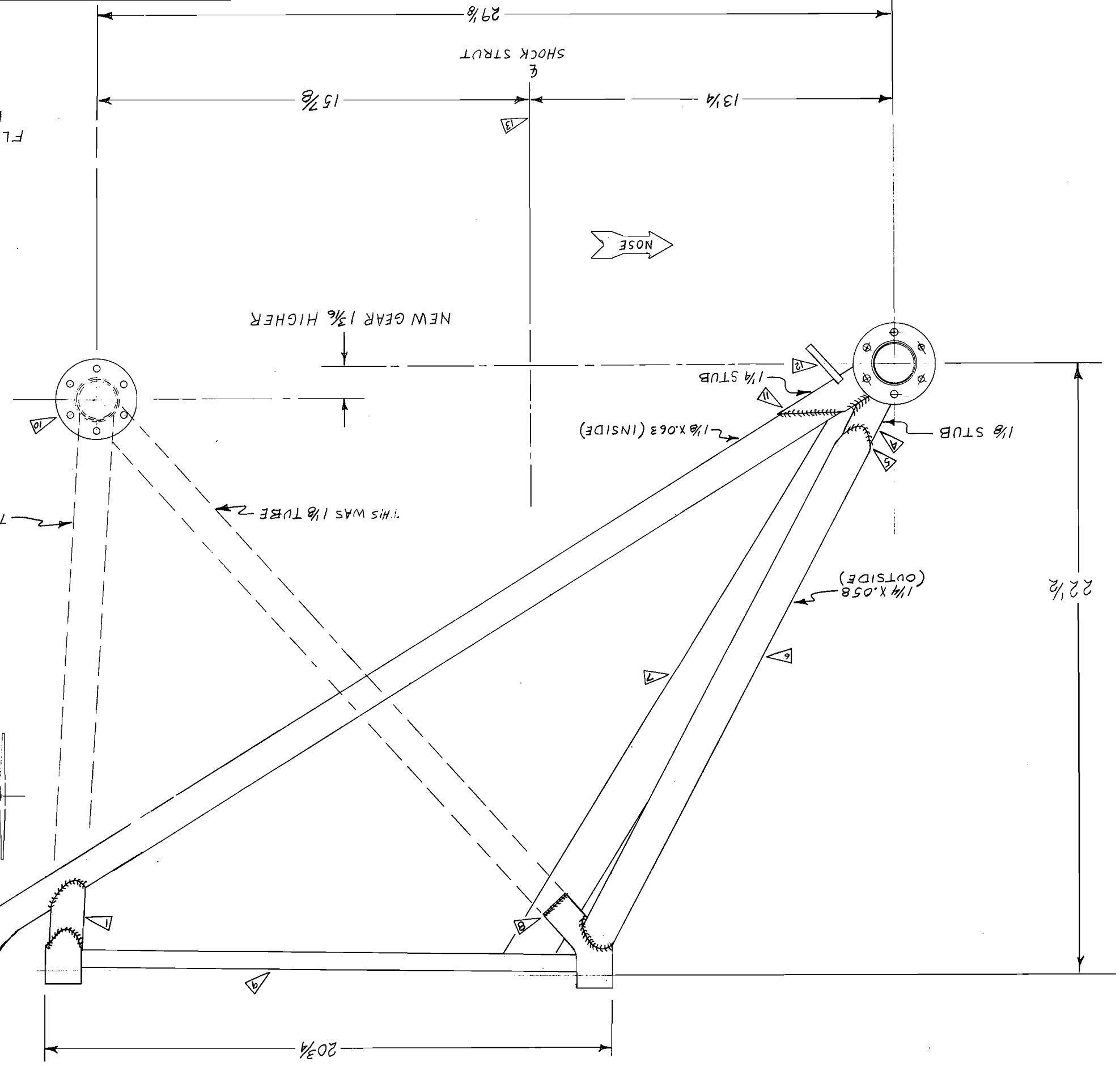
REAR 1/4 AFTER WELDING
 1/8 4130 (WELDED ASSEMBLY)
 3/8x.063x1 1/2 BUSHINGS

DISASSEMBLE TOW HITCH AND BRAZE AS SHOWN MAKE SMOOTH FILLET CADMIUM PLATE ASSEMBLY
 1/16x4 WELD 90°

QTY.	PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
2	-2	REAR TUBE	1 1/8 X .063	4130
2	-1	FORWARD TUBE	1 1/4 X .058	4130
SCALE	1/2	DRAWN BY	D. D. BLANTON	
TOLERANCE	± 1/6	CHECKED BY	"	
STRESS CHK.	"	APPROVED BY	H. Blanton	
DATE	FEB 89	LANDING GEAR		
DRAWING NO. 455 SHEET 0				

THIS DRAWING IS PHOTOGRAPHICALLY REDUCED
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LEFT SIDE VIEW

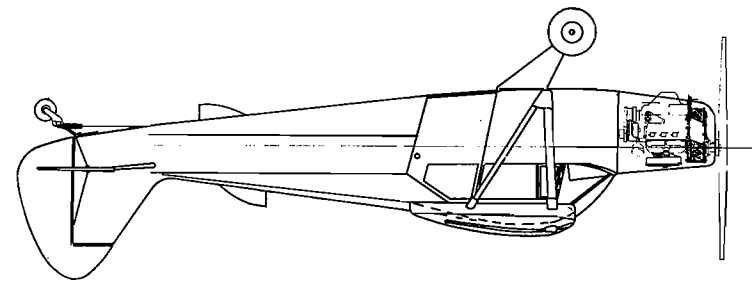


FLAG NOTES ARE IN BUILDERS MANUAL
PAGE 19

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"World's leading manufacturer of special aircraft fuel systems"
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V6 STOL



THIS WAS A 1/4 TUBE

NEW GEAR 1 3/8 HIGHER

1 1/4 X .058 (OUTSIDE)

1 1/8 X .063 (INSIDE)

1/4 STUB

1/8 STUB

SHOCK STRUT



20 3/4

22 1/2

29 1/8

15 7/8

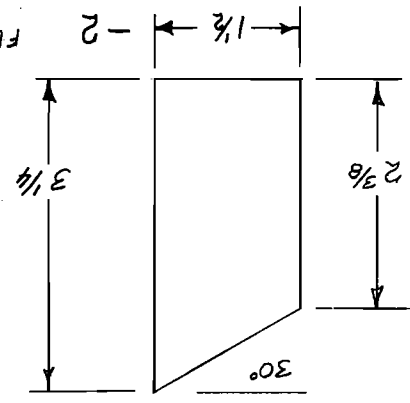
13 1/4

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 PHONE 318/733-1011 MUNICIPAL AIRPORT AUGUSTA, KANSAS 67010
 "World's leading manufacturer of special aircraft fuel systems"

V6 STOL

SEE PAGE 21
 OF THE
 BUILDERS MANUAL

FULL SCALE

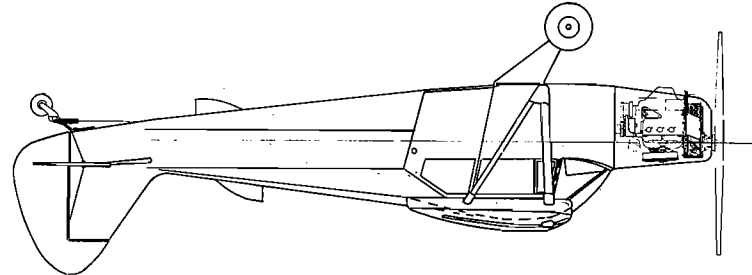
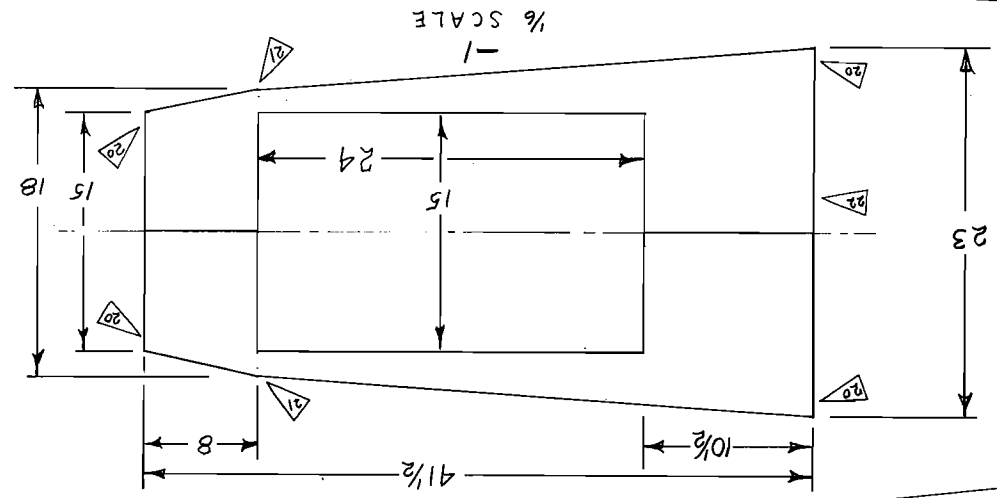
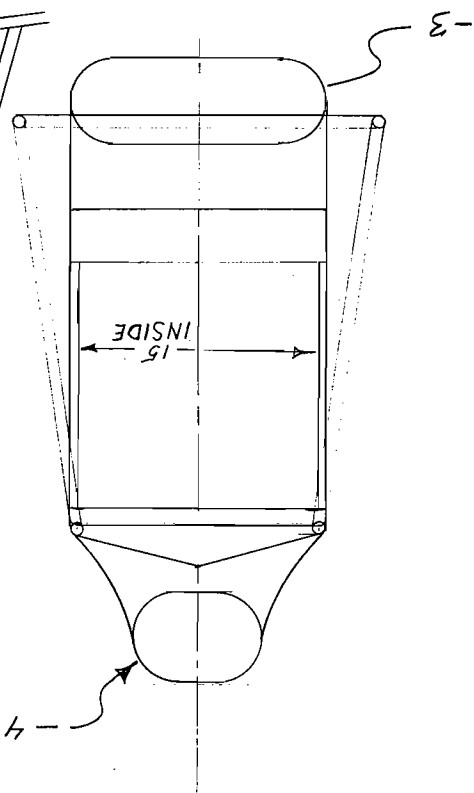
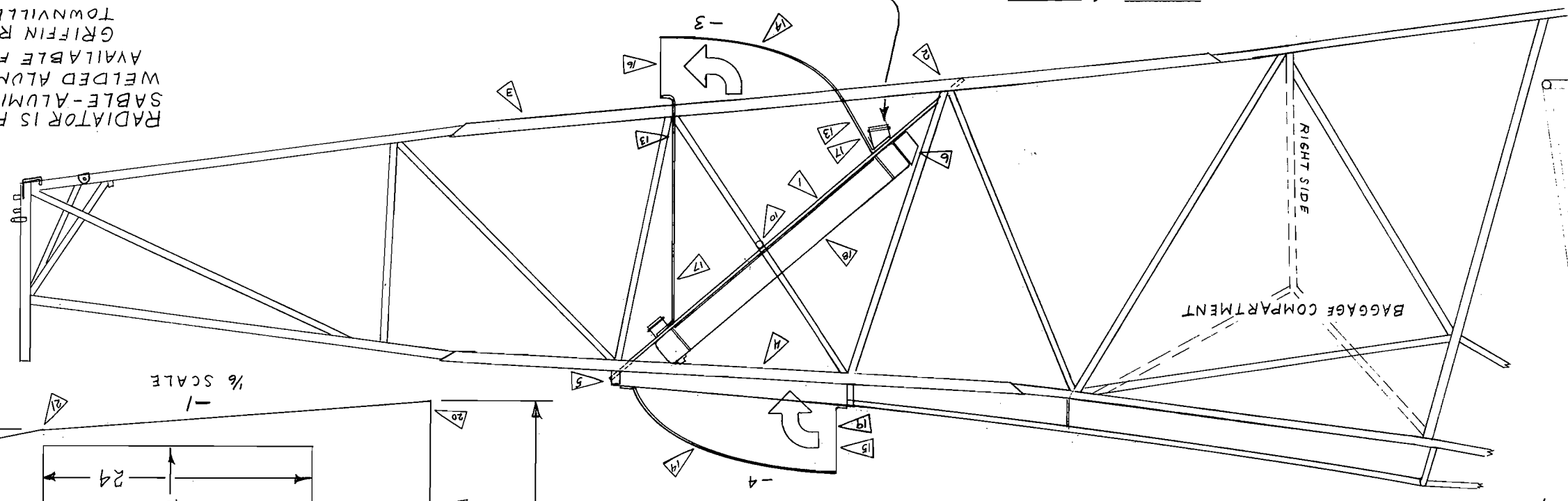


1/2 COLD NECK-WELD AT 40°. RADIATOR MUST HAVE 1/8 N.P.T. (OR 1/4 N.P.T.) AIR BLEED VALVE FITTING AT TOP.
 TOP NECK IS 1/8 INCH. MOUNTING FLANGE OF CORE ON SAME SIDE AS NECKS.

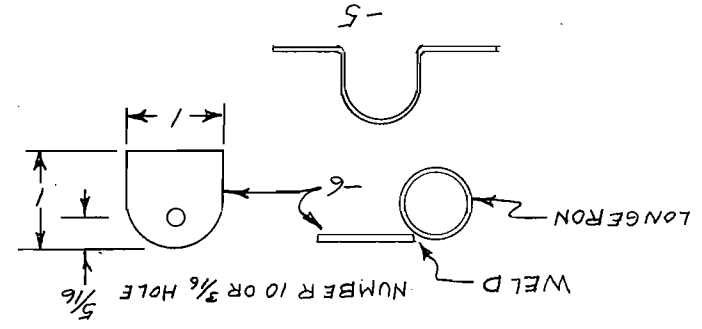
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DATE	FEB 89	APPROVED BY	B. Blanton
TOLERANCE	+1/8	CHECKED BY	"
SCALE	NOTED	DRAWN BY	D.D. BLANTON
QTY.	PART NO.	NAME OF PART	SIZE GAUGE
4	-6	WELD TAB	.063 4/30
10	-5	CLAMP	.063 ALUM.
1	-4	TOP SCOOP	"
1	-3	BOTTOM SPILL	"
1	-2	SUPPORT BLOCK	CLEAR W. PINE
1	-1	BASE PLATE	3/8 EXT. AA FIR
			MODEL V6 STOL
			WICHITA, KANSAS
			YAVELIN AIRCRAFT CO. INC.
			SHEET 0

RADIATOR IS FORD TAURUS AND WELDED ALUMINUM TANKS. AVAILABLE FROM GRIFFIN RACING RADIATORS TOWNVILLE SOUTH CAROLINA 1-800-RACE RAD



MAKE TO FIT TUBE SIZE TWO NO. 10 HOLES INSTALL WITH TWO AN3 BOLTS AN365-1032 NUTS



-5

450-4

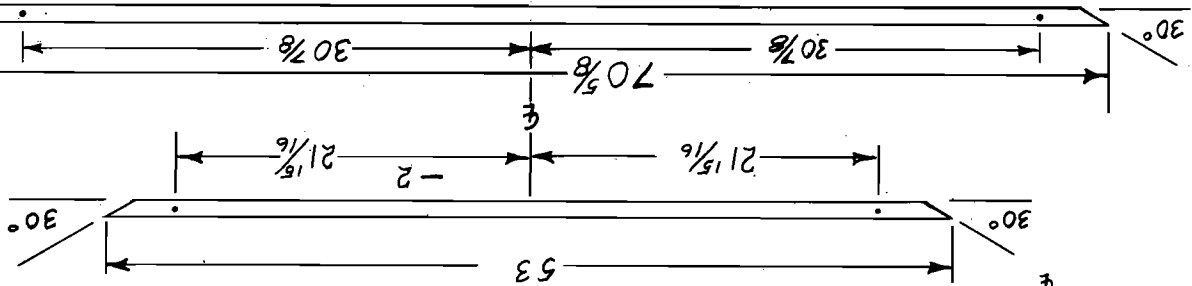
V6 STOL

1/6 SCALE

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NO. 10 HOLE IN EACH PART 4 PLACES -1

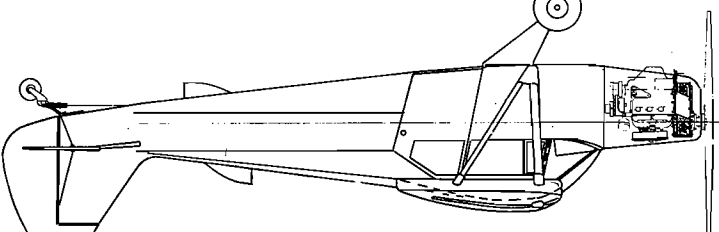
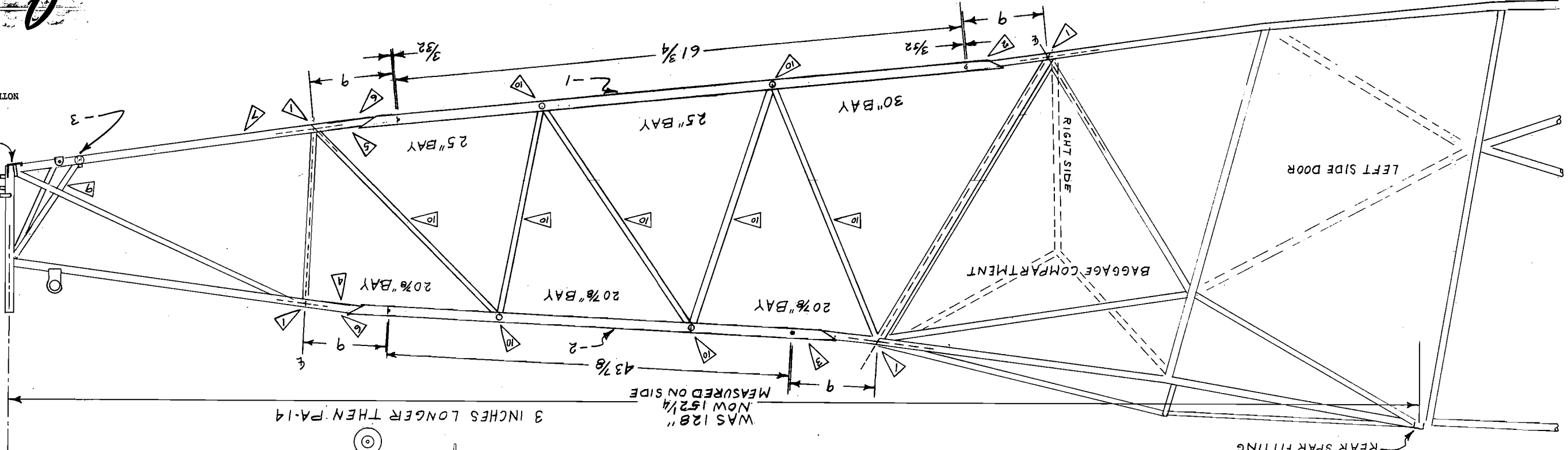
SEE PAGE 13 OF THE BUILDERS MANUAL



DRAWING NO. 457		FUSELAGE EXTENSION	
DATE JAN 87	APPROVED BY <i>D. D. Blanton</i>	DESIGNED BY <i>D. D. Blanton</i>	SCALE NOTED
STRESS CHK. " "	CHECKED BY " "	DRAWN BY D. D. BLANTON	MODEL V6 STOL
TOLERANCE 1/8	WICHITA, KANSAS	AVIATION AIRCRAFT CO. INC.	WICHITA, KANSAS
QTY. PART NO.	NAME OF PART	SIZE GAUGE	MATERIAL
1 -3	CROSS MEMBER	7/8x.065	4130
2 -2	SPLICE TUBE	7/8x.035	4130
2 -1	SPLICE TUBE	7/8x.035	4130

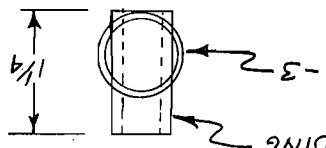
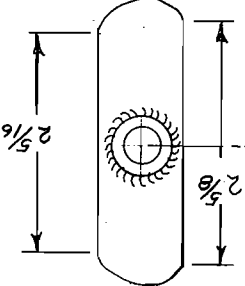
Yarelin Aircraft Company, Inc.
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NOTE: The pipe drawings are drawn with an architectural scale of 2" = 1'. In aircraft we call this 1/6 scale. We found this to be a nice size to work with.



24 INCHES ADDED TO FUSELAGE

-3 FULL SCALE



5/8 x .125 REAM .375 AFTER WELDING