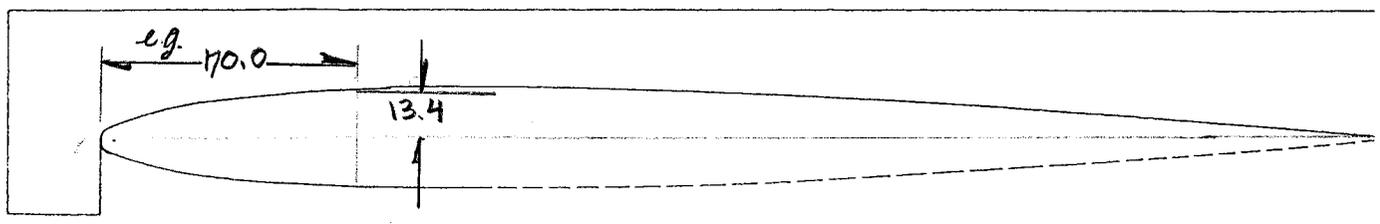


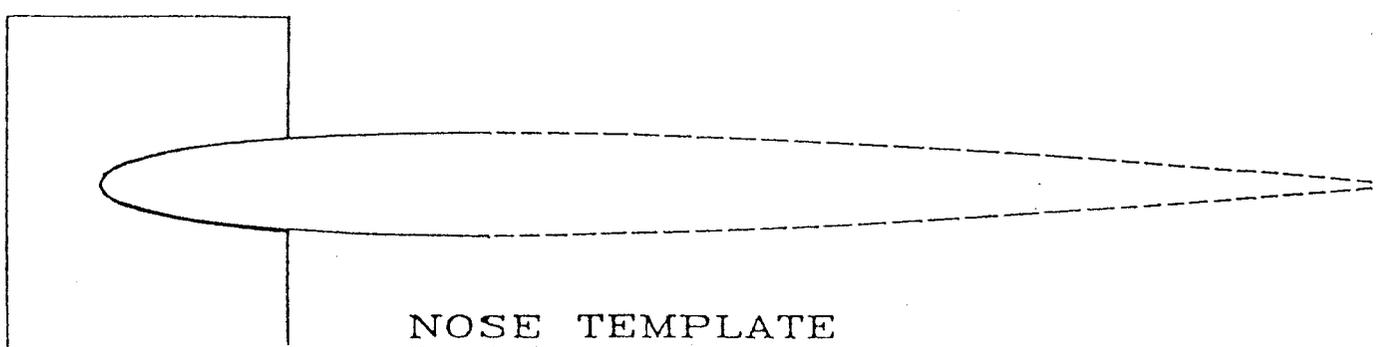
CENTREBOARD PROFILE

BUILDING INSTRUCTIONS

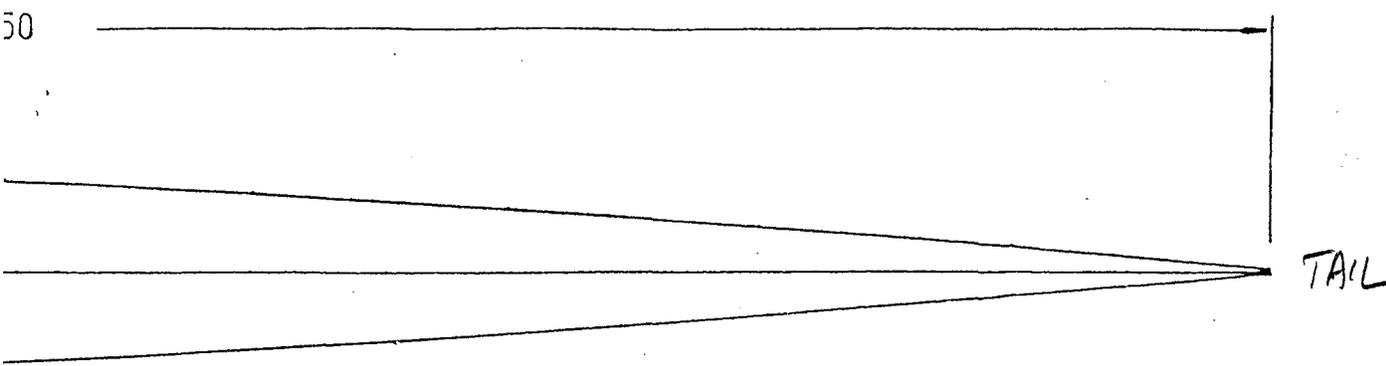
- 1) THE CENTREBOARD MAY BE CONSTRUCTED FROM SUITABLE MARINE TIMBER, EG, WESTERN RED CEDAR WITH A PVC FOAM CORE, EG, DIVINYLCCELL H80.
- 2) BUY 30 X 75 X 1400 TIMBER SECTIONS AND RIP THEM TO THE BOARD THICKNESS OF 28MM.
- 3) LAY SECTIONS SO THAT ADJACENT TIMBERS HAVE GRAINS RUNNING IN OPPOSITE DIRECTIONS.
- 4) GLUE SECTIONS TOGETHER ON FLAT BENCH OR LEVELLED SAW HORSES WITH AN MARINE GLUE. CLAMPING SHOULD BE FIRM TO REMOVE EXCESS GLUE FROM JOINTS BUT NOT SO AS TO DISTORT THE PROFILE.
- 5) THE ABOVE PROFILE SHOULD BE CHECKED FOR REPRODUCTION DISTORSIONS AND REDRAW WITH THE OFFSETS GIVEN, AND TWO PLYWOOD TEMPLATES MADE AND TACKED TO THE BLANK'S ENDS. THE FOLLOWING TWO TEMPLATES SHOULD ALSO BE MADE TO CHECK THE SECTION THE SECTION DURING THE SHAPING PROCESS



HALF TEMPLATE



NOSE TEMPLATE



THICKNESS = 28mm

TABLE

PROFILE OFFSETS

RED CEDAR OR

mm.

IONS:

EPOXY.
CAUSE BRUISING.

IN USING THE
S TO ASSIST IN SHAPING.
TION SHAPE MIDLENGTH

DISTANCE FROM NOSE	1/2 THICKNESS OFFSET
0.0	0.0
4.4	4.4
8.8	6.1
17.5	8.3
26.3	9.8
35.0	10.9
52.5	12.5
70.0	13.4
87.5	13.9
105.0	14.0
140.0	13.5
175.0	12.3
210.0	10.6
245.0	8.5
280.0	6.1
315.0	3.4
350.0	.3
NOSE RADIUS	3.9

HUGHES NAVAL ARCHITECTS

Consultant Naval Architects and Marine Surveyors

12 Waine Street
HARBORD N.S.W. 2096
Tel: - (02) 906 - 2566

Project: - *Vaucluse Junior Update*

Drawn: - Craig Hughes
Date: - 24/12/90

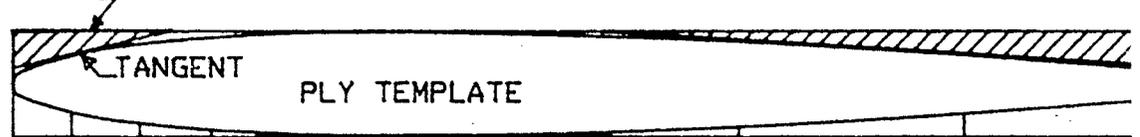
Drawing Title: - *Centreboard Construction*

Drawing No: *CB 01* Revision: *0*

BUILDING INSTRUCTIONS (CONT')

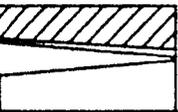
- 1) TACK PLY TEMPLATES TO ENDS OF BLANK.
- 2) CENTREBOARD IS SHAPED BY PLANING ALONG SURFACES TANGENTIAL TO

MATERIAL TO BE
REMOVED



- 3) MARK AND RUN ENDS OF TANGENT LINES DOWN LENGTH OF BOARD ON SIDE BLANK. PLANE TO THESE LINES.
- 4) REMOVE THE SAME SHAPE ON THE OTHER SIDE. THE PROCEDURE IS REPEATED WHERE FLAT SURFACES EXIST.
- 5) SURFACE FAIRNESS CAN BE CHECKED USING THE HALF AND NOSE TEMPLATE.
- 6) FINAL FAIRING IS ACHIEVED BY SANDING.
- 7) FOR TIMBER BOARD APPLY ONE LAYER OF 200 GRM 'S' GRADE GLASS AND APPLY TWO LAYERS.

THE PROFILE



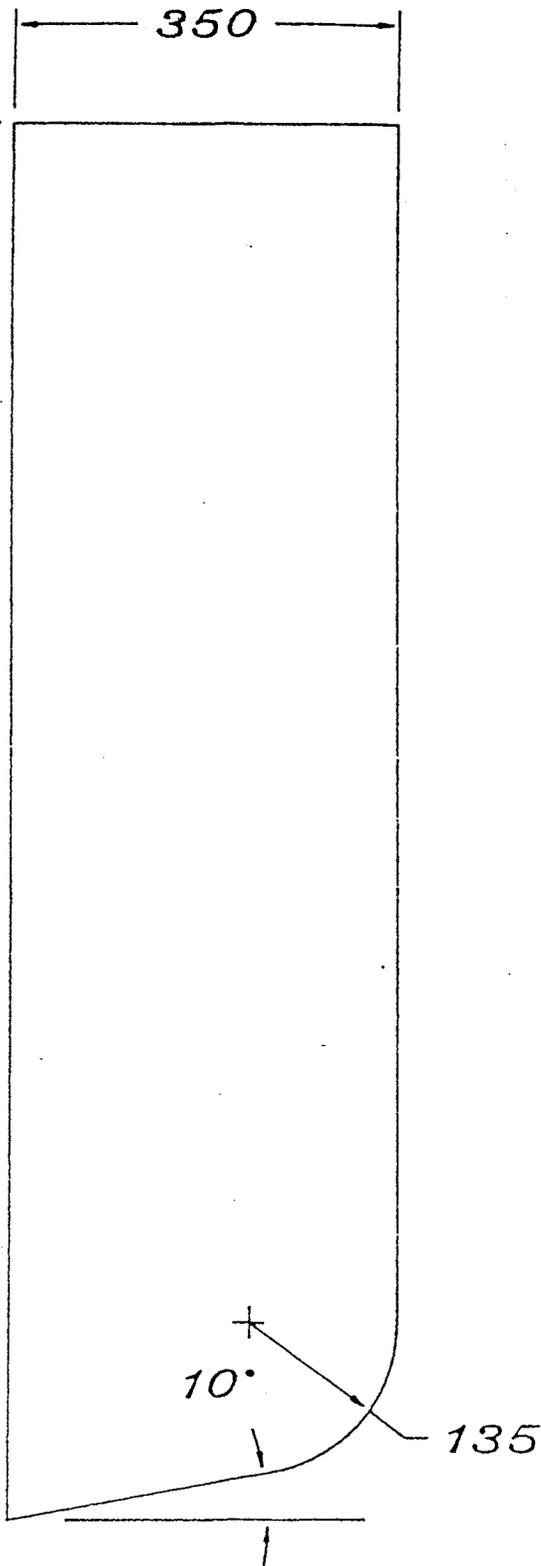
ES AND FRONT OF

ATED UNTIL SMALL

TES.

FOR FOAM

DEPENDENT UPON TYPE OF COCKPIT AND
MAX PROTRUSION OF BOARD UNDER HULL



CENTREBOARD DIMENSIONS

HUGHES NAVAL ARCHITECTS

Consultant Naval Architects and Marine Surveyors

12 Waine Street

HARBORD N.S.W. 2096

Tel: - (02) 906 - 2568

Project: -

Vaucluse Junior Update

Drawn: - Craig Hughes

Date: - 24/12/90

Drawing Title: -

Centreboard Construction

Drawing No: - Revision

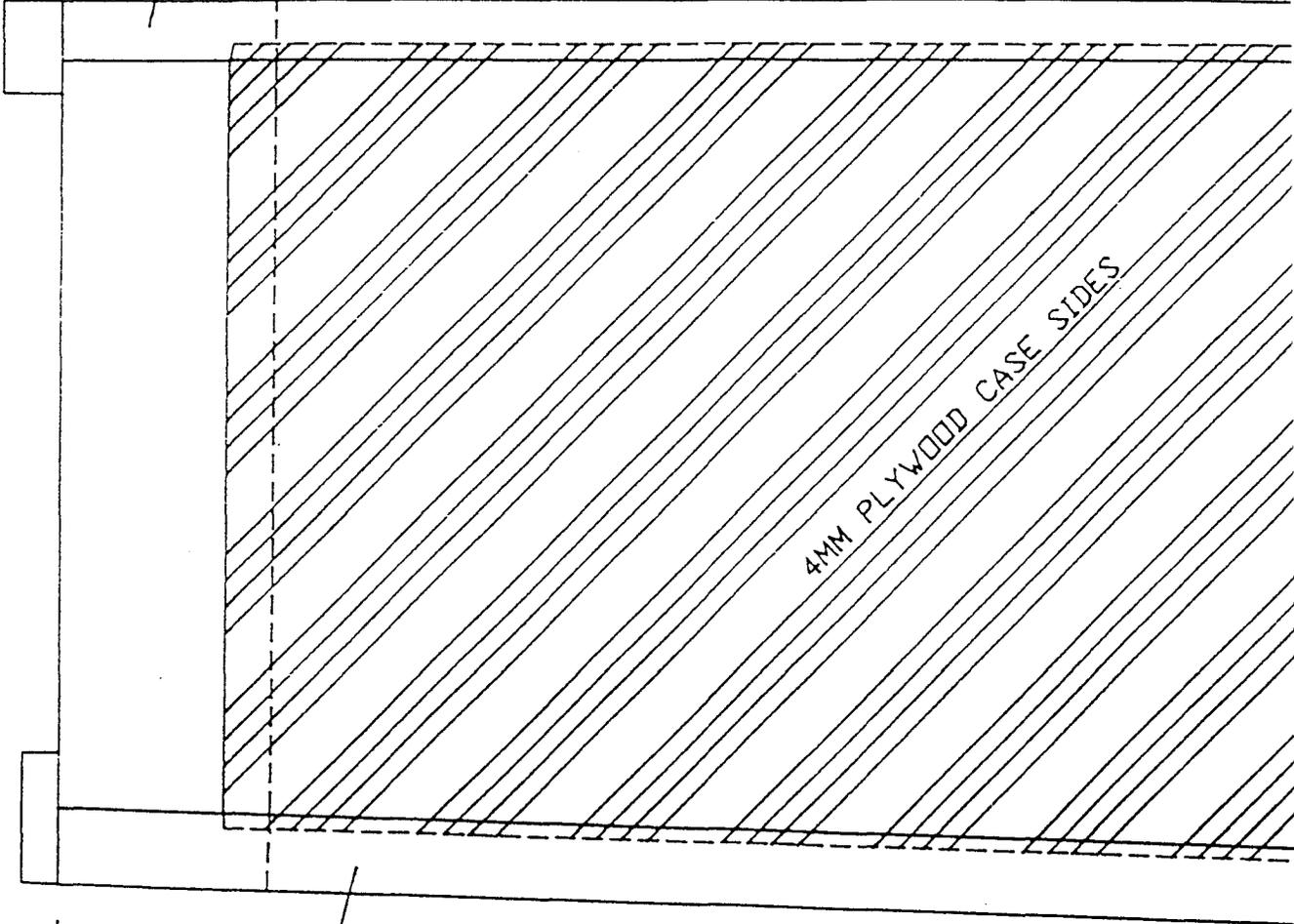
CB-02

0

CASE OPENING = 355mm

60 x 16 CASE TOP

A

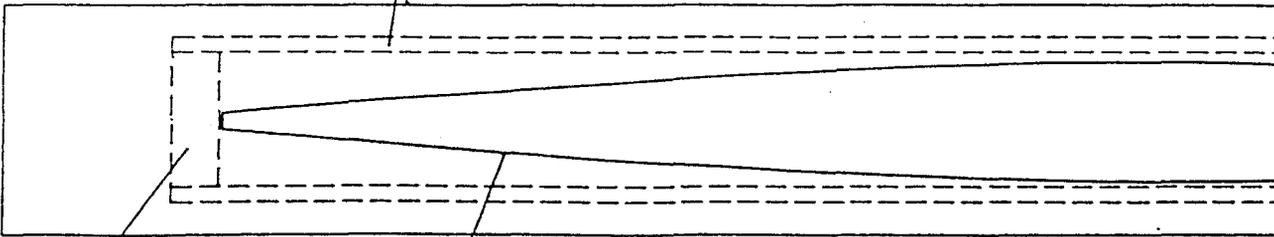


KEEL

A

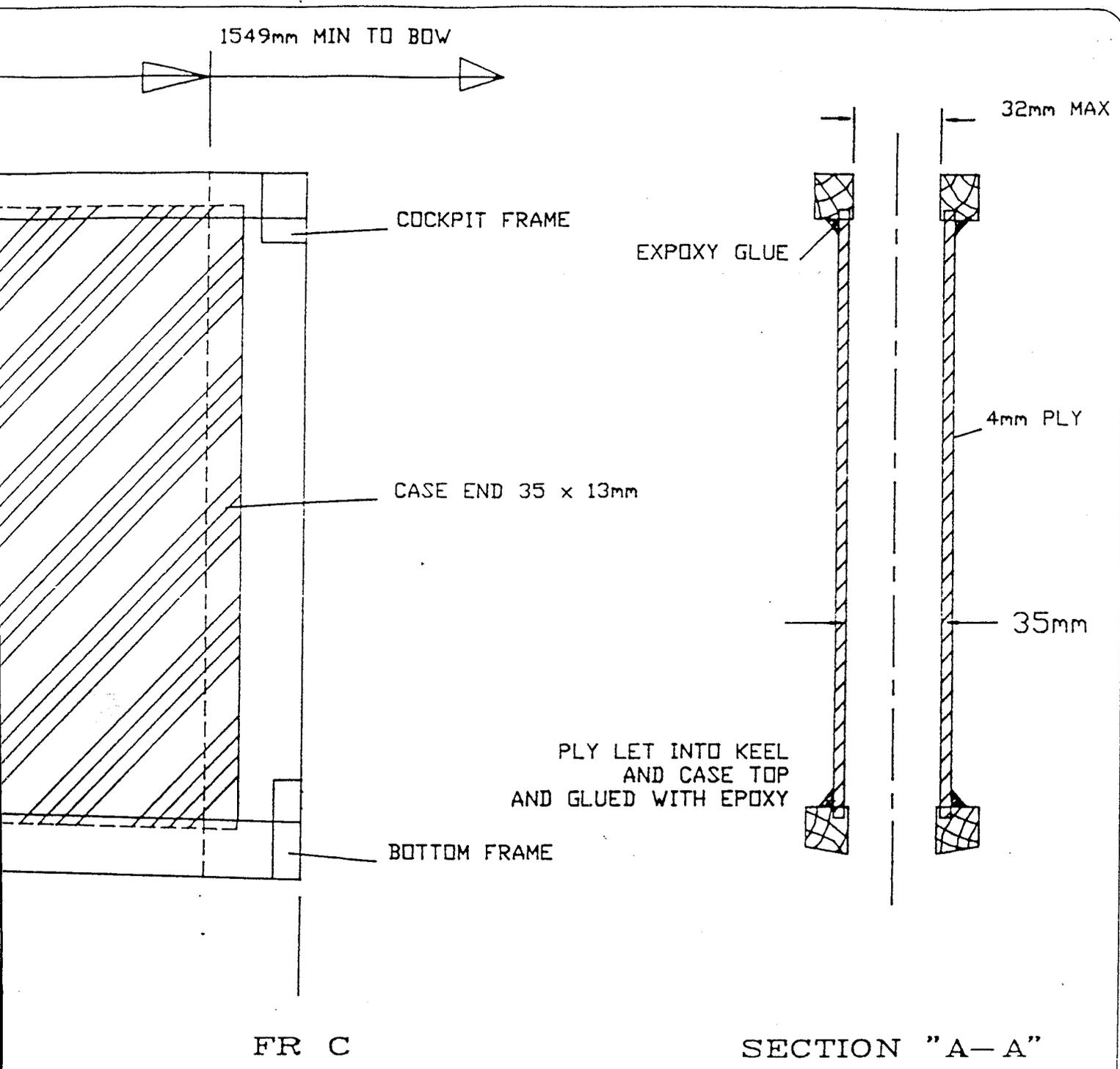
FR D

PLY



CASE END

PROFILE ONLY CUT IN CASE TOP
AND KEEL TIMBER.



HUGHES NAVAL ARCHITECTS
 Consultant Naval Architects and Marine Surveyors

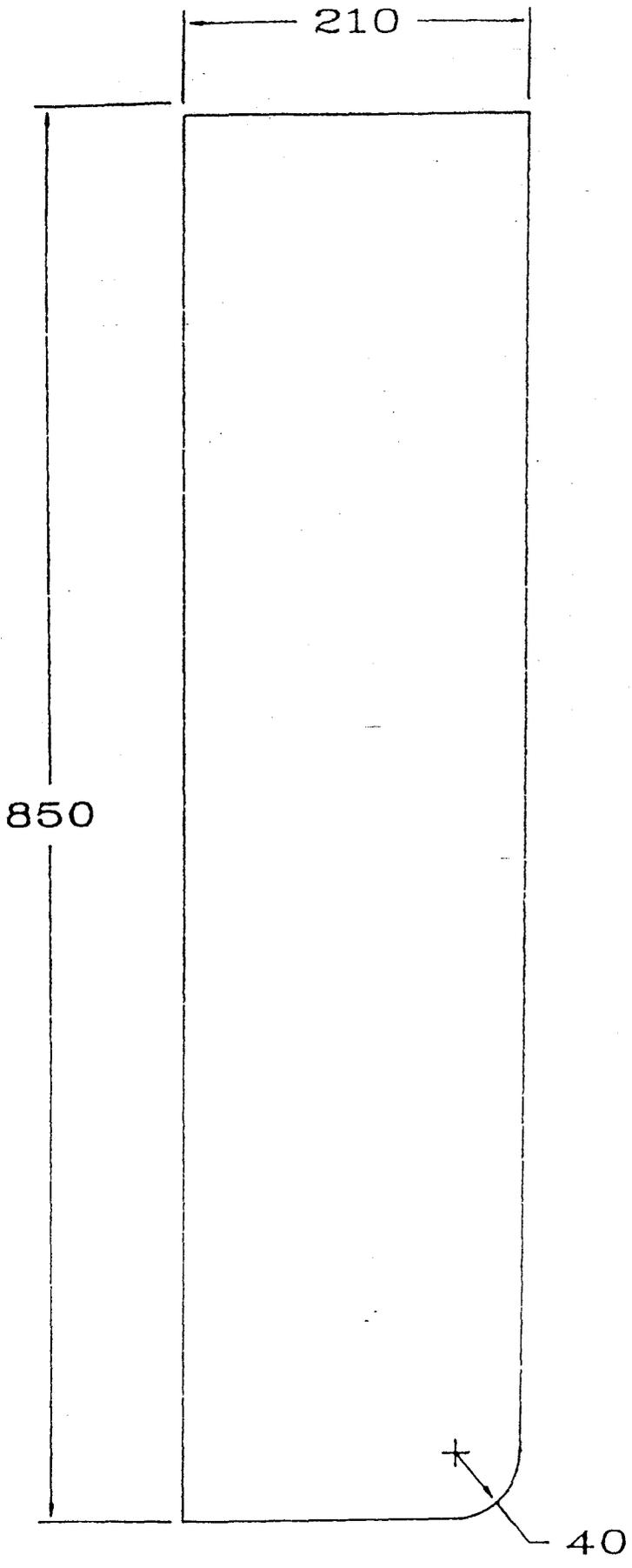
12 Waine Street
 HARBORD N.S.W. 2096
 Tel: - (02) 905 - 2565

Project: - *Vaucluse Junior Update*

Drawn: - Craig Hughes
 Date: - 25/12/90

Drawing Title: - *Centreboard Case*

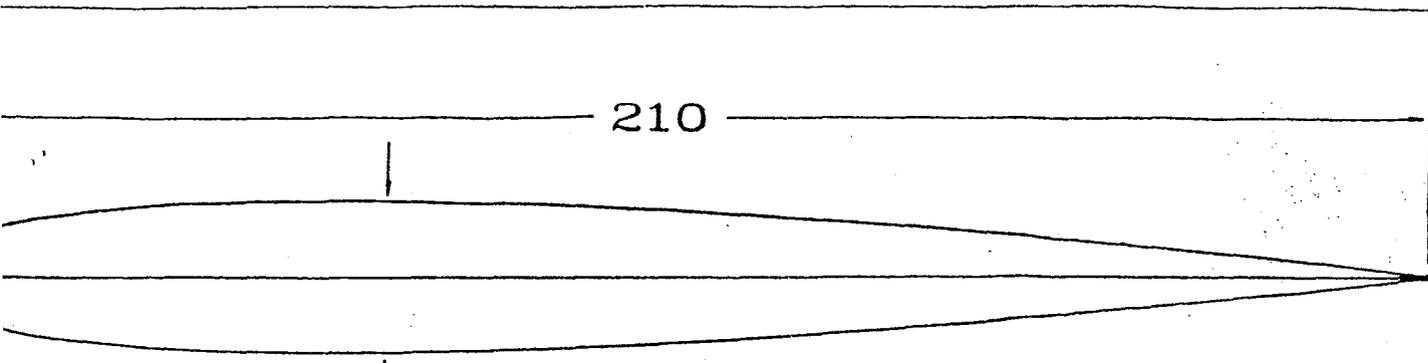
Drawing No: - *CB 03* | Revision: - *0*



CONSTRUCTION

- 1) RUDDER MAY BE MADE FROM A SUITABLE CEDAR, OR PVC FOAM, EG, DIVINYLCEL
- 2) CONSTRUCTION AND SHAPING METHOD: CENTREBOARD
- 3) TIMBER BLADE TO GLASSED WITH ON AND FOAM BLADE TO HAVE TWO LAYERS
- 4) INWAY OF BOLT HOLES, HOLE IN CORNER BOLT DIAMETER AND FILLED WITH AN ADHESIVE TO CURE BEFORE BOLT IS FITTED.

RUDDER DIMENSIONS



MAX UNGLASSED THICKNESS = 20mm

RUDDER PROFILE

NOTES

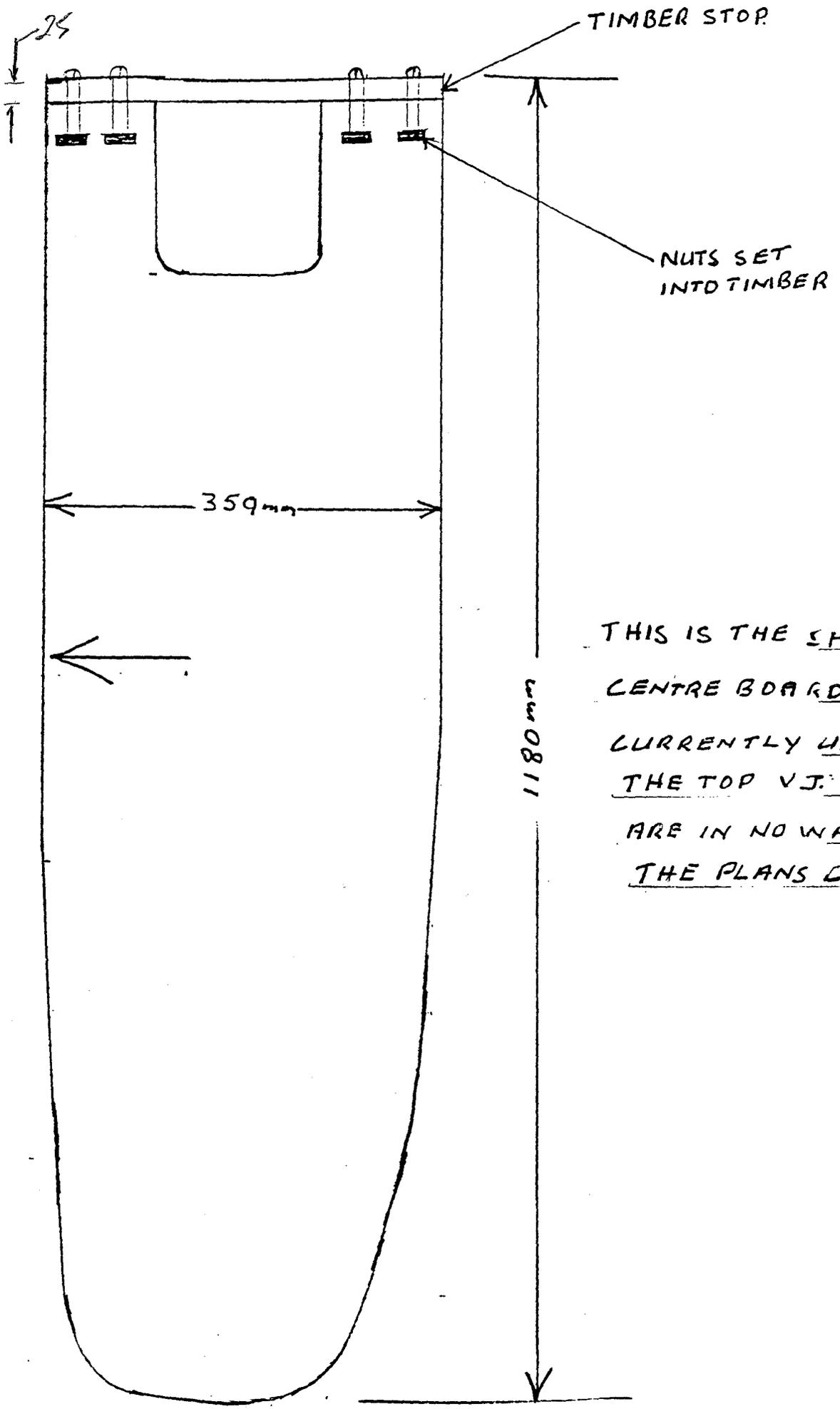
MARINE TIMBER, EG. WESTERN RED
 L H80.
 ARE THE SAME AS FOR THE
 LAYER OF 'S' GRADE GLASS
 RS.
 E TO BE THREE TIMES THE
 EXPOXY FILLER AND ALLOWED

PROFILE OFFSETS

DISTANCE FROM NOSE	1/2 THICKNESS OFFSET
0.0	0.0
2.6	3.2
5.3	4.4
10.5	5.9
15.75	7.0
21.0	7.8
31.5	8.9
42.0	9.6
52.5	9.9
63	10.0
84.0	9.7
105	8.8
126	7.6
147	6.1
168	4.4
189	2.4
210	0.2
NOSE RADIUS	2.3

HUGHES NAVAL ARCHITECTS
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 Tel: - (02) 905 - 2566

Project: - <i>Vaucluse Junior Update</i>	Drawn: - Craig Hughes
	Date: - 25/12/90
Drawing Title: - <i>Rudder Construction</i>	Drawing No: - <i>RD 01</i> Revision: - <i>0</i>



TIMBER STOP

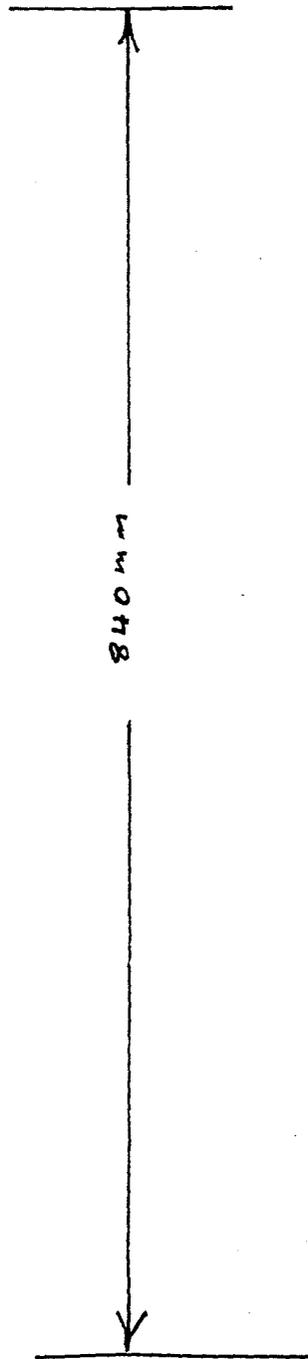
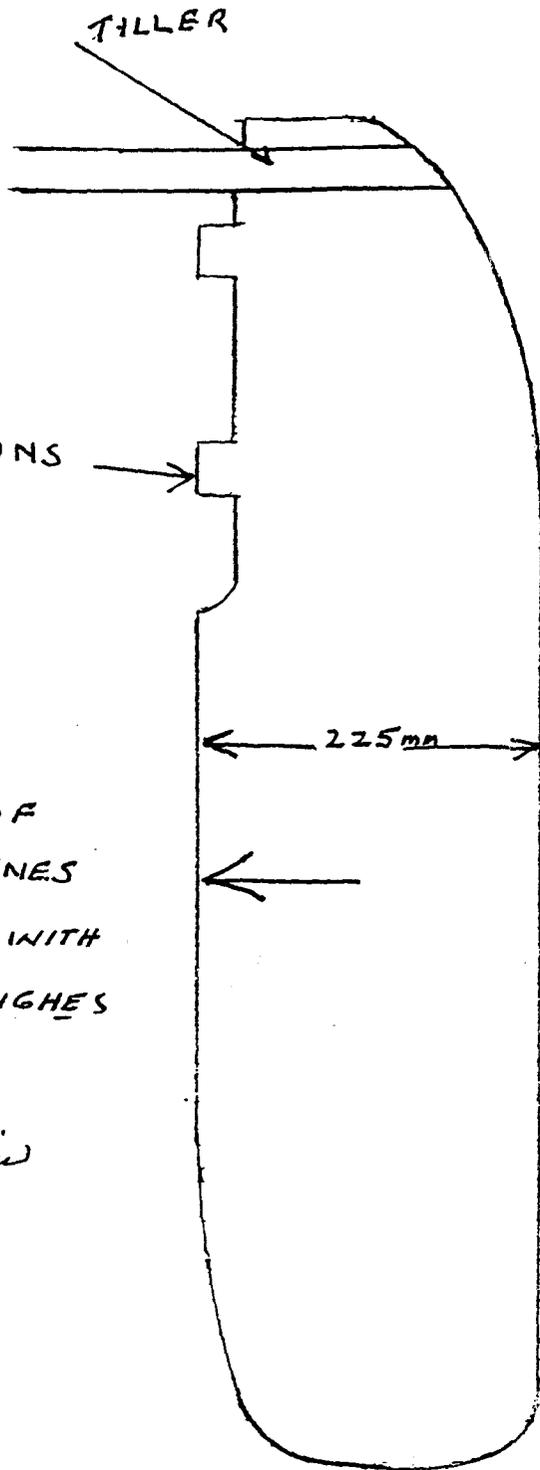
25

NUTS SET INTO TIMBER

359 mm

1180 mm

THIS IS THE SHA
CENTRE BOARD A
CURRENTLY USE
THE TOP V.J. 7
ARE IN NO WAY
THE PLANS OR



PL OF THE
NO RUDDER
2 BY MOST OF
THESE OUTLINES
CONNECTED WITH
WN BY C. HUGHES

A. Kelder
 Plans Office