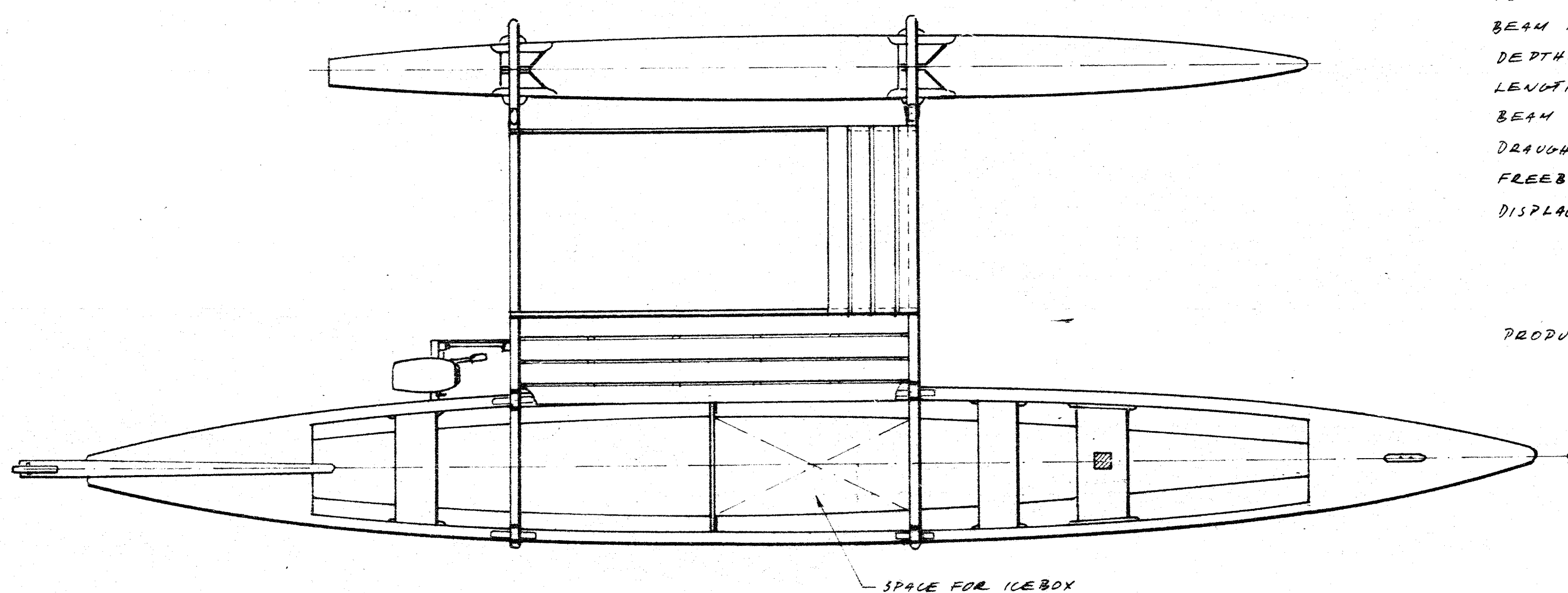
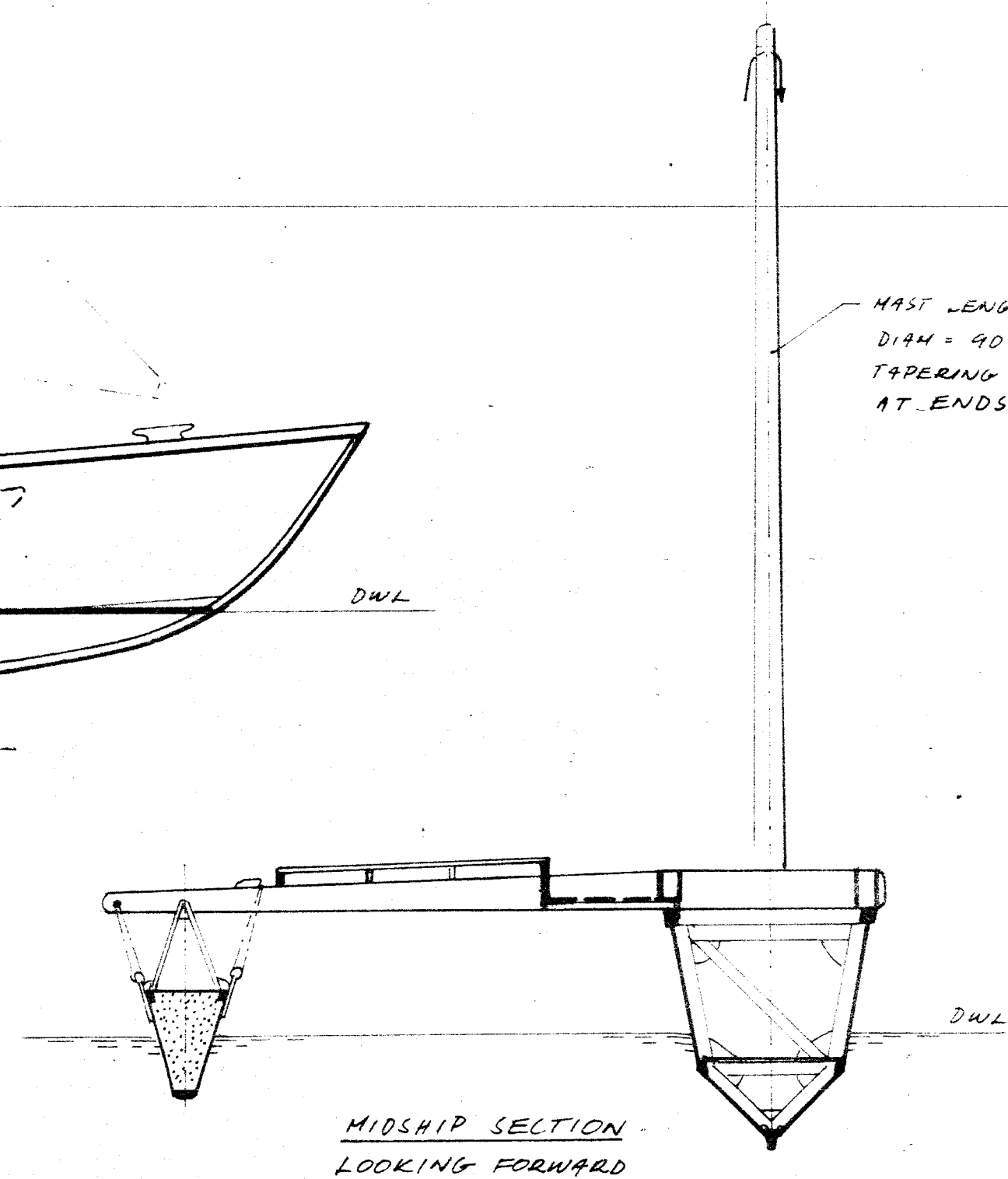


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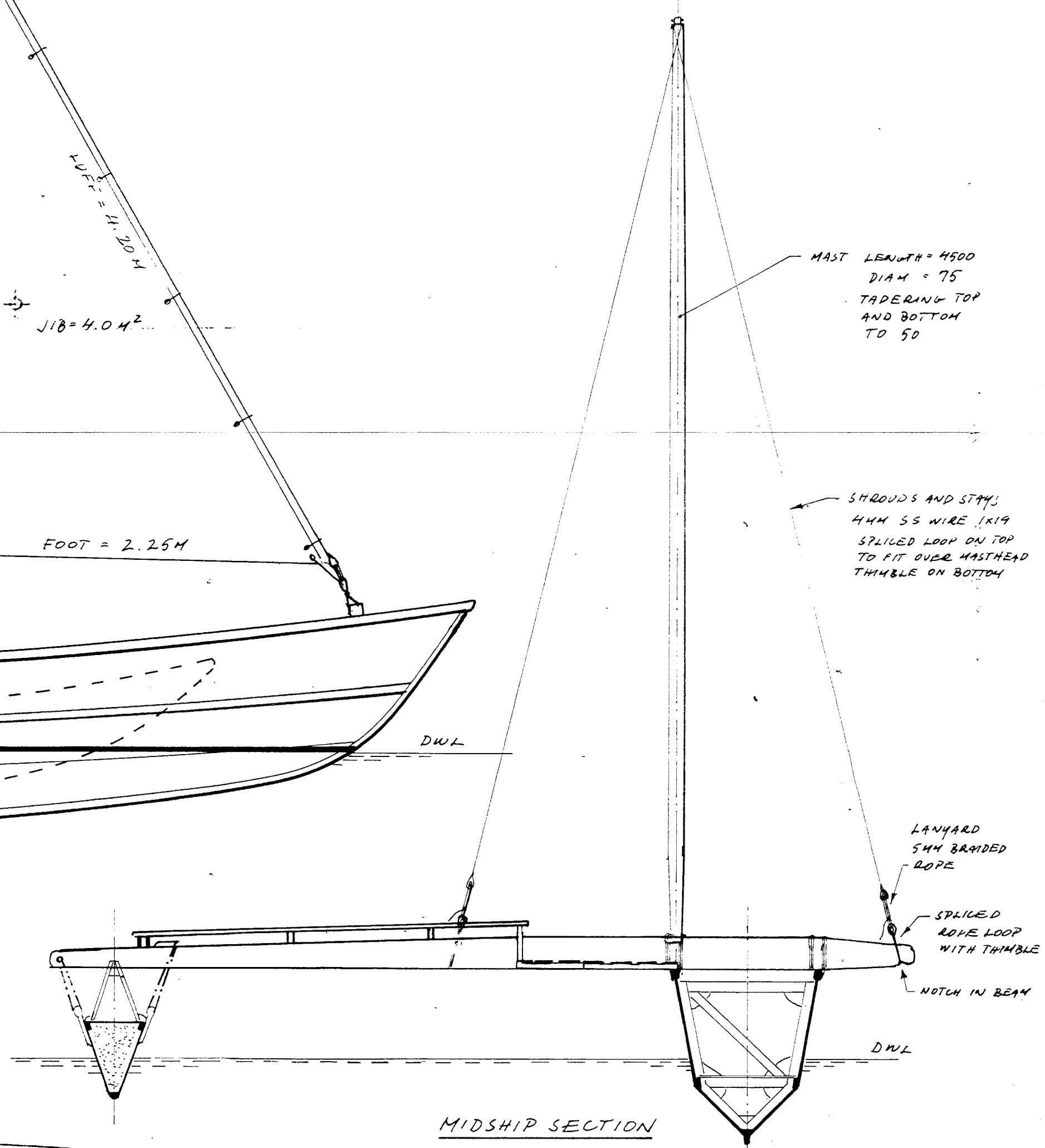
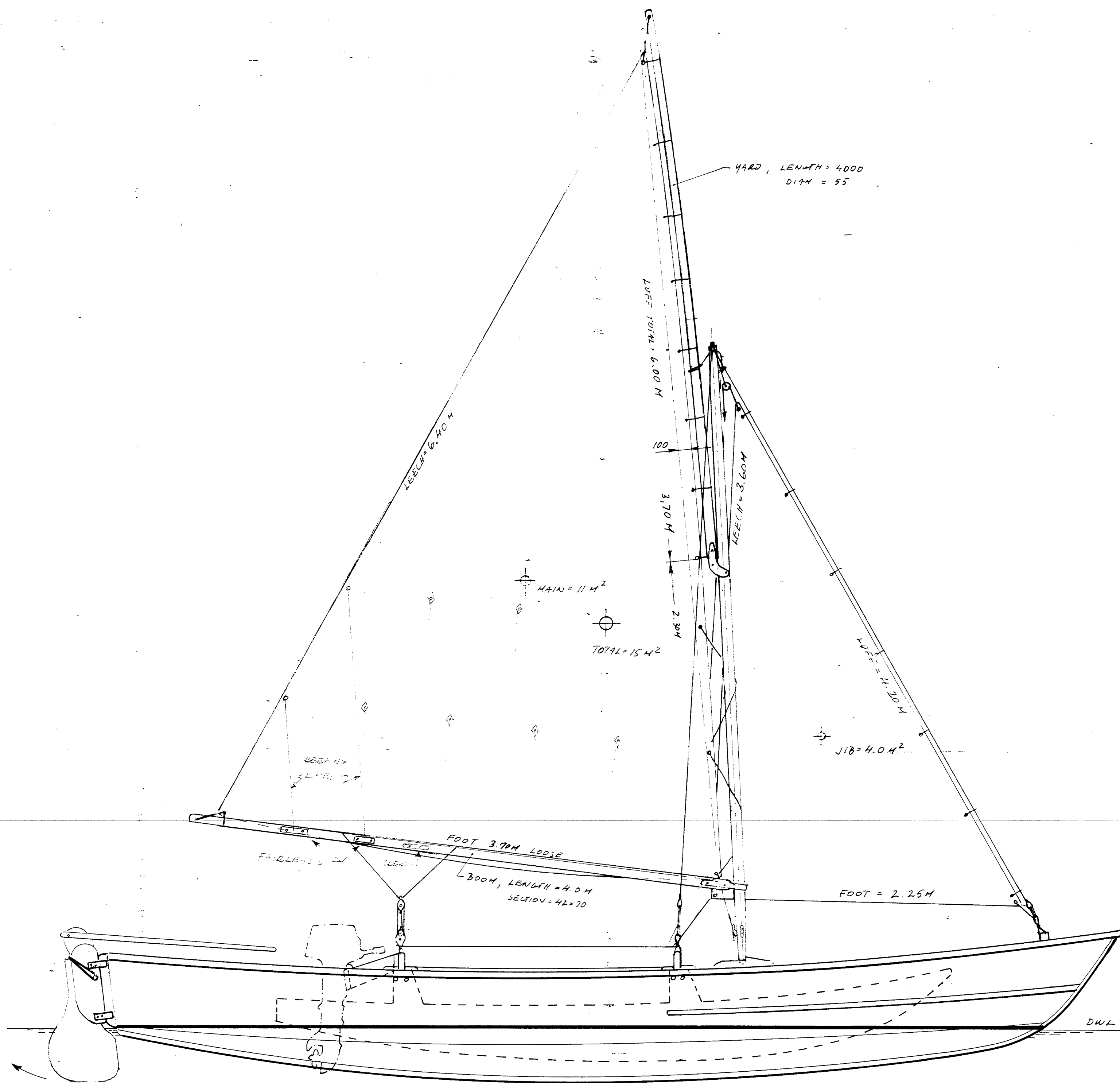
This information product is intended to be used by anyone who wants to build a boat to a particular and suitable FAO design, it being understood that it is the responsibility of the intended user regarding the selection of a vessel design on the basis of its suitability for the intended fishery, sea state and weather and the availability of suitable construction material and building capability. Furthermore, it is the responsibility of the intended user to comply with national legislation for authorization to construct a fishing vessel and obtain approval of technical specifications. It being noted that the application to build a vessel must be accompanied by the specifications of mandatory safety equipment and outfit. In the case there is no national legislation in place for the design, construction and equipment of vessels FAO recommends that the intended user applies appropriate international standards, such as the FAO/ILO/IMO Safety recommendations for decked fishing vessels of less than 12 metres in length and undecked fishing vessels.

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7.25.41 PROA		
GENERAL ARRANGEMENT		
SCALE = 1:20	DESIGN NO.	DRAW. NO.
DESIGN: <i>Ø. Grimstad</i>	KIR-2	1A
GRIMSTAD, OLT- BZ		

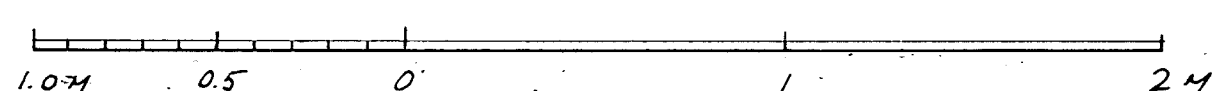
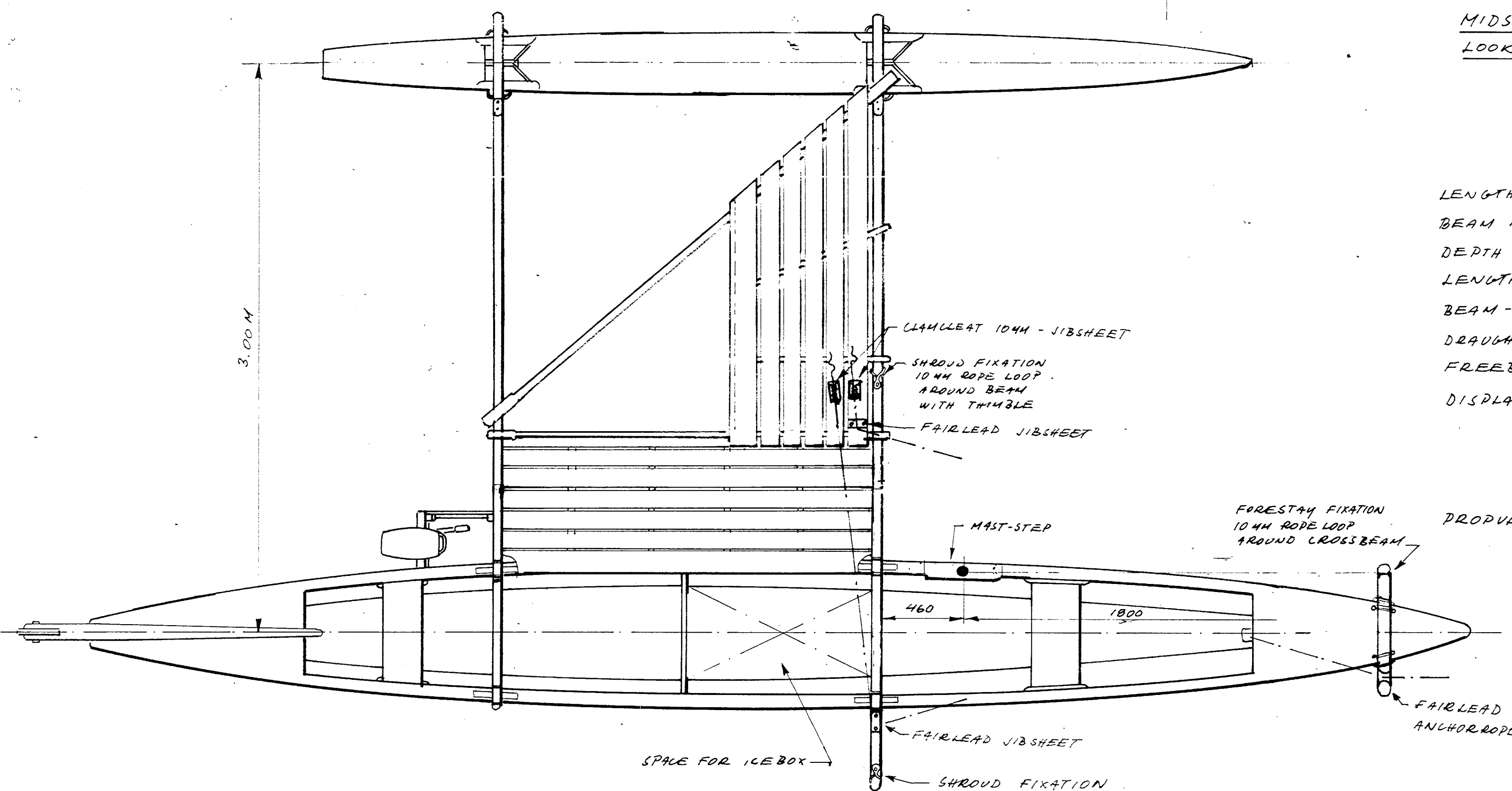


MIDSHIP SECTION
LOOKING FORWARD

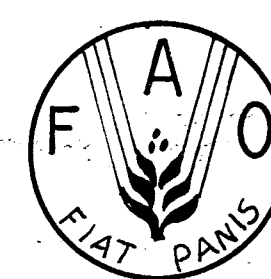
MAIN DIMENSIONS

LENGTH OVER ALL	7.27 M	24'0"
BEAM MAXIMUM	4.10 M	13'6"
DEPTH MOULDED (HULL)	0.75 M	2'6"
LENGTH - DWL	6.70 M	22'0"
BEAM - DWL	0.56 M	1'10"
DRAUGHT - DWL	0.39 M	1'3"
FREEBOARD, MIN. - DWL	0.40 M	1'4"
DISPLACEMENT	EMPTY	LOADED (DWL)
HULL -	175 kg	460 kg
OUTRIGGER	45 "	55 "
TOTAL	220 kg	515 kg

PRODUCTION: SAIL = 15 M²
 AUXILIARY OUTBOARD MOTOR
 2-4 HP, LONGSHAFT 20"
 FISHING METHODS: HANDLINING,
 TROLLING, PEARL SHELL LURE.
 CREW: 2-3



SAFETY FEATURES: THE CRAFT CAN, AFTER CAPSIZE, BE RIGHTED BY TWO MEN STANDING ON THE MAIN HULL USING ROPES FROM OUTRIGGER. BUILT IN BUOYANCY BLOCKS WILL MAKE THE CRAFT FLOAT SUFFICIENTLY HIGH TO PERMIT BAILING THE CRAFT DRY WITH A BUCKET.



REVISED: JULY 1984

7.25 M PROA

GENERAL ARRANGEMENT

SCALE = 1:20	DESIGN NO:	DRWG. NO
DESIGN: P. Unibranche	KIR-2	1.B
GRIMSTED, OUT-82		

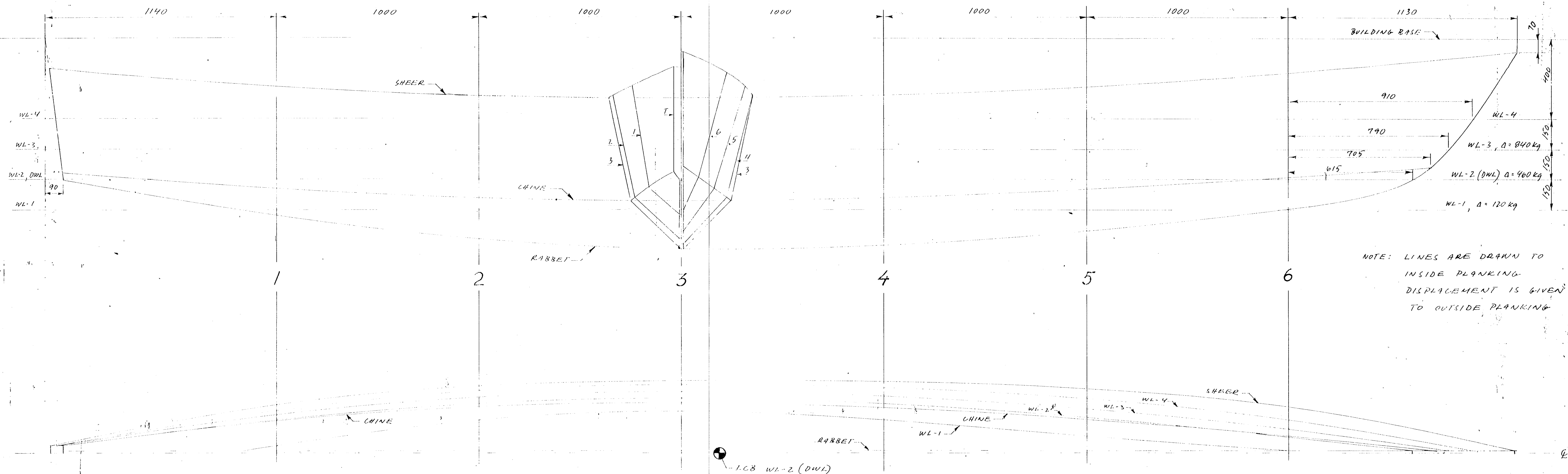
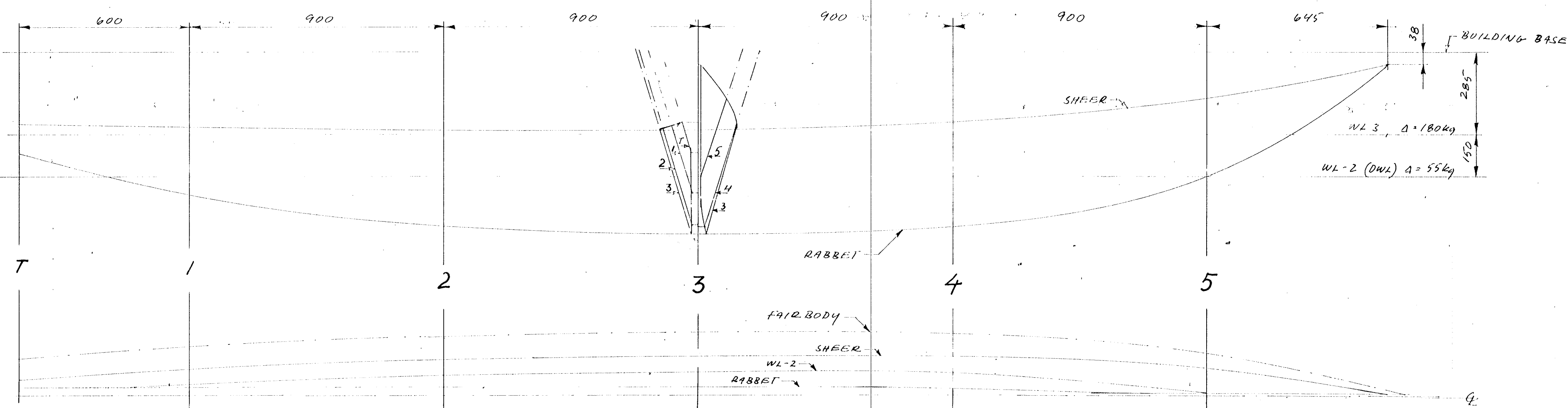


TABLE OF OFFSETS - HULL							
IN MILLIMETER TO INSIDE PLANKING							
	T	1	2	3	4	5	6
HEIGHT ABOVE BASELINE - SHEER	145	237	284	295	278	238	170
CHINE	668	743	790	803	785	744	685
RABBIT	700	875	992	1040	1021	951	845
HALF BREADTHS FROM ϕ - SHEER	35	240	335	357	355	318	228
CHINE	35	160	232	248	225	165	83
RABBIT	10	10	10	10	10	10	10

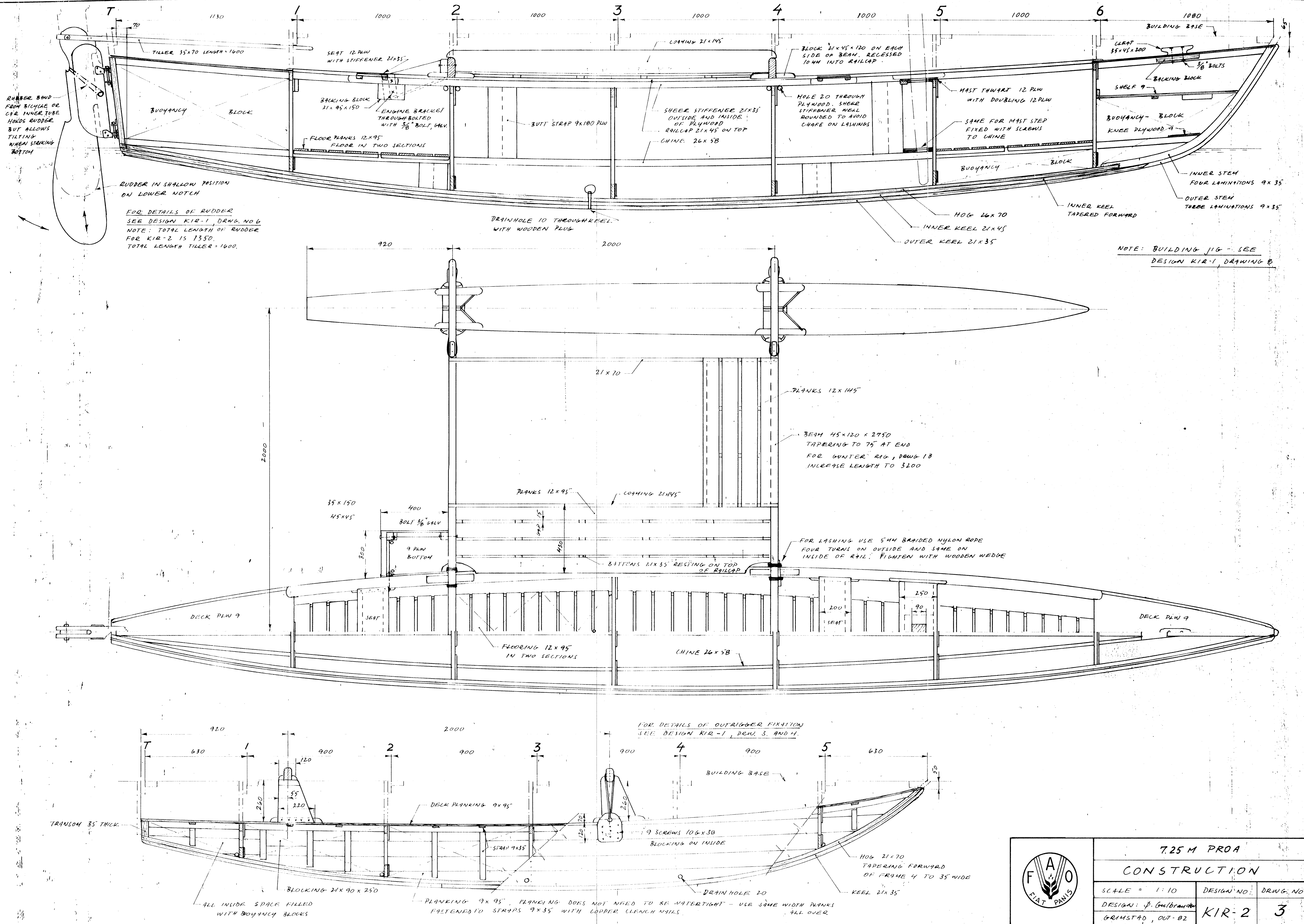
TABLE OF OFFSETS - OUTRIGGER						
IN MILLIMETER TO INSIDE PLANKING						
	T	1	2	3	4	5
HEIGHT FROM BASELINE - SHEER	252	263	275	273	245	160
RABBIT	356	504	615	643	615	437
HALF BREADTHS FROM ϕ - FAIRBODY	130	175	208	225	217	150
RABBIT	28	28	28	28	18	10



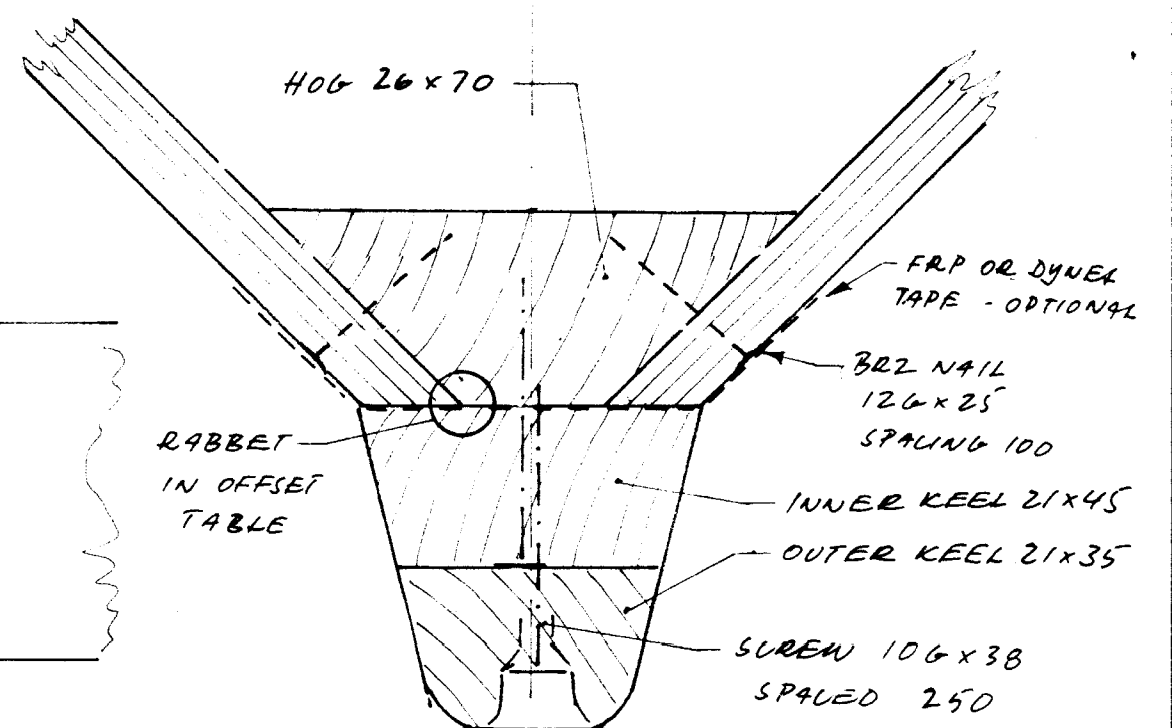
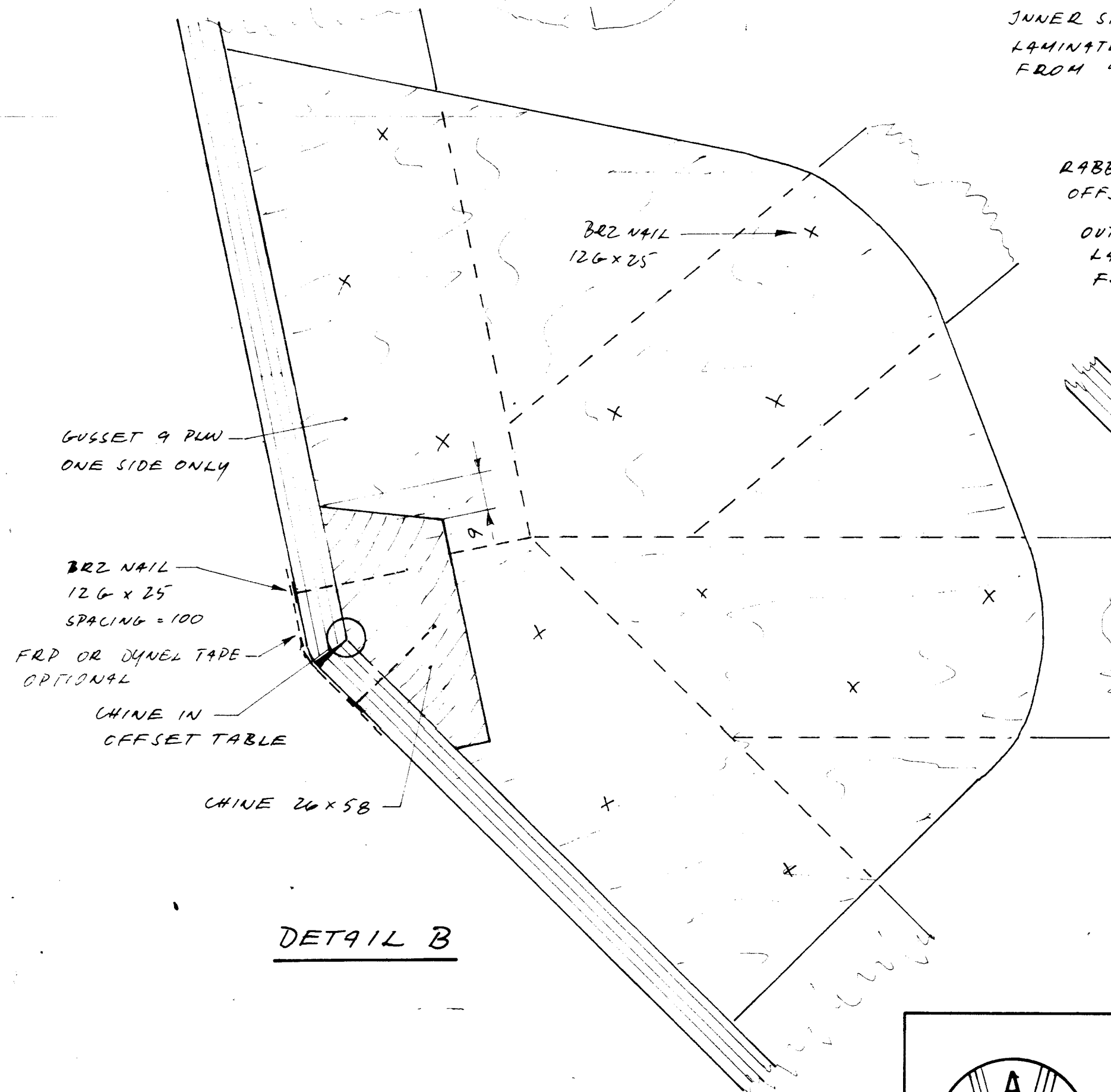
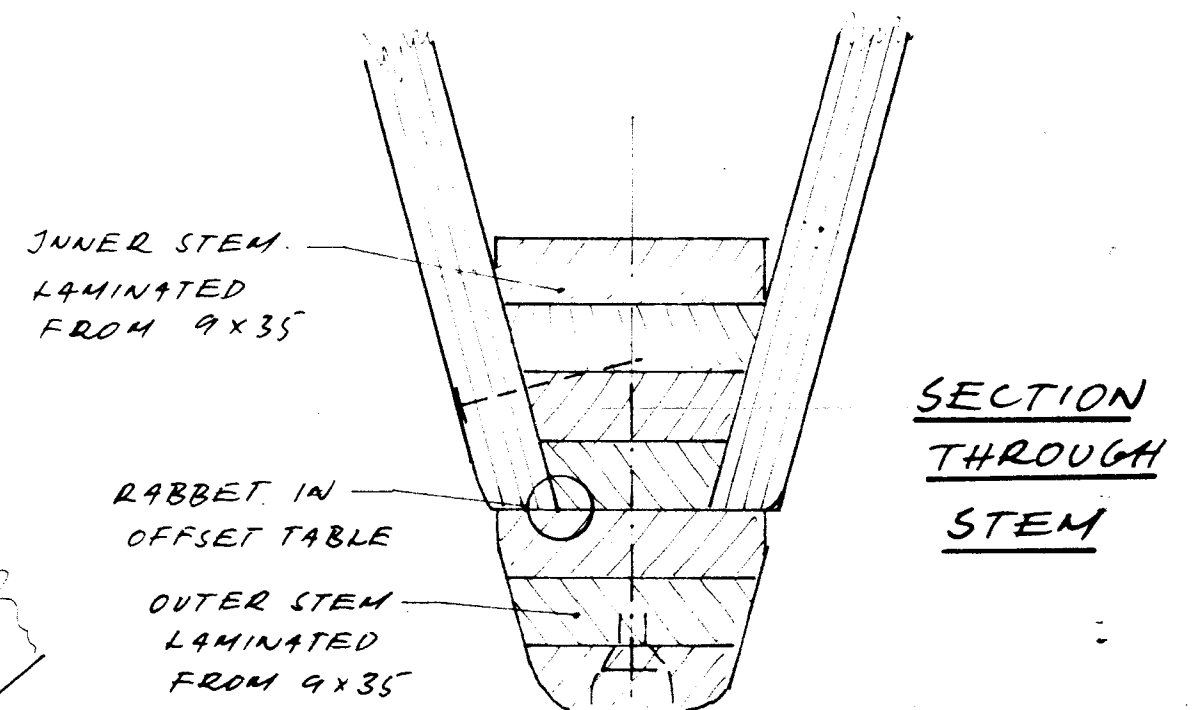
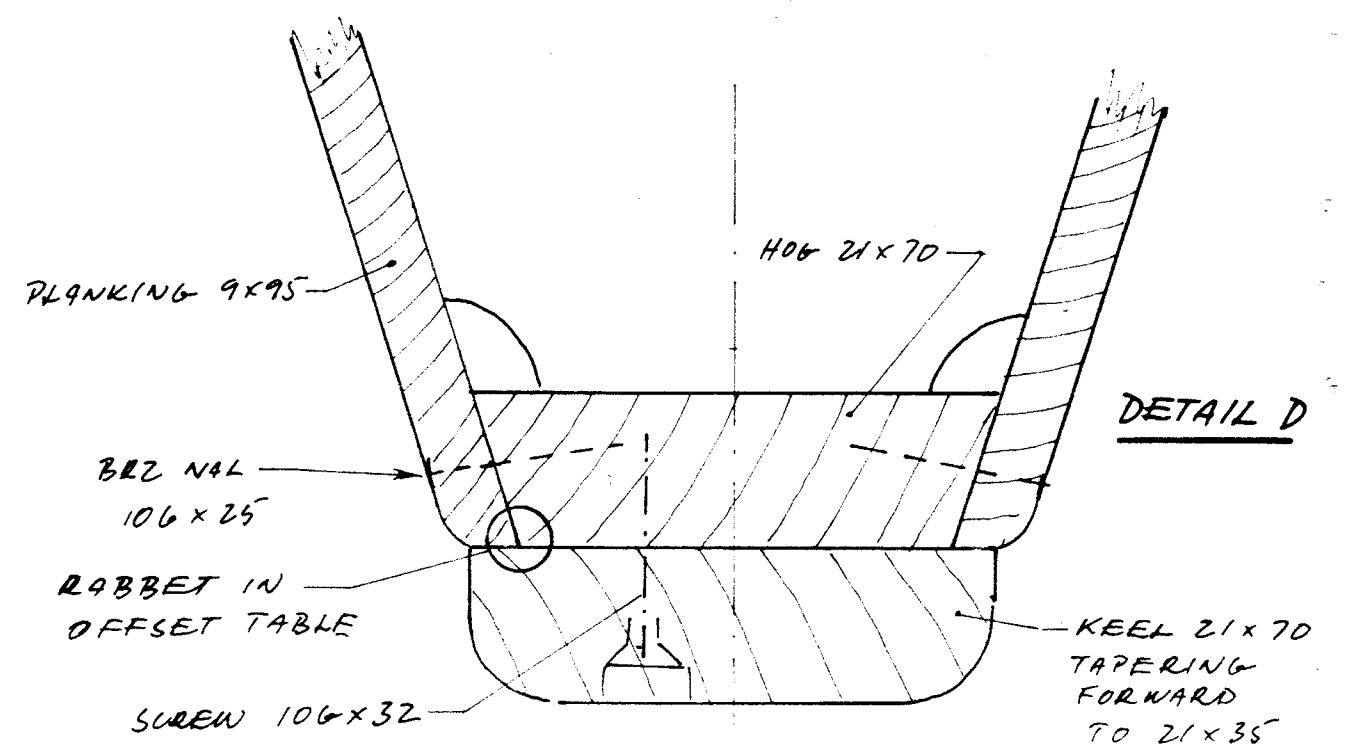
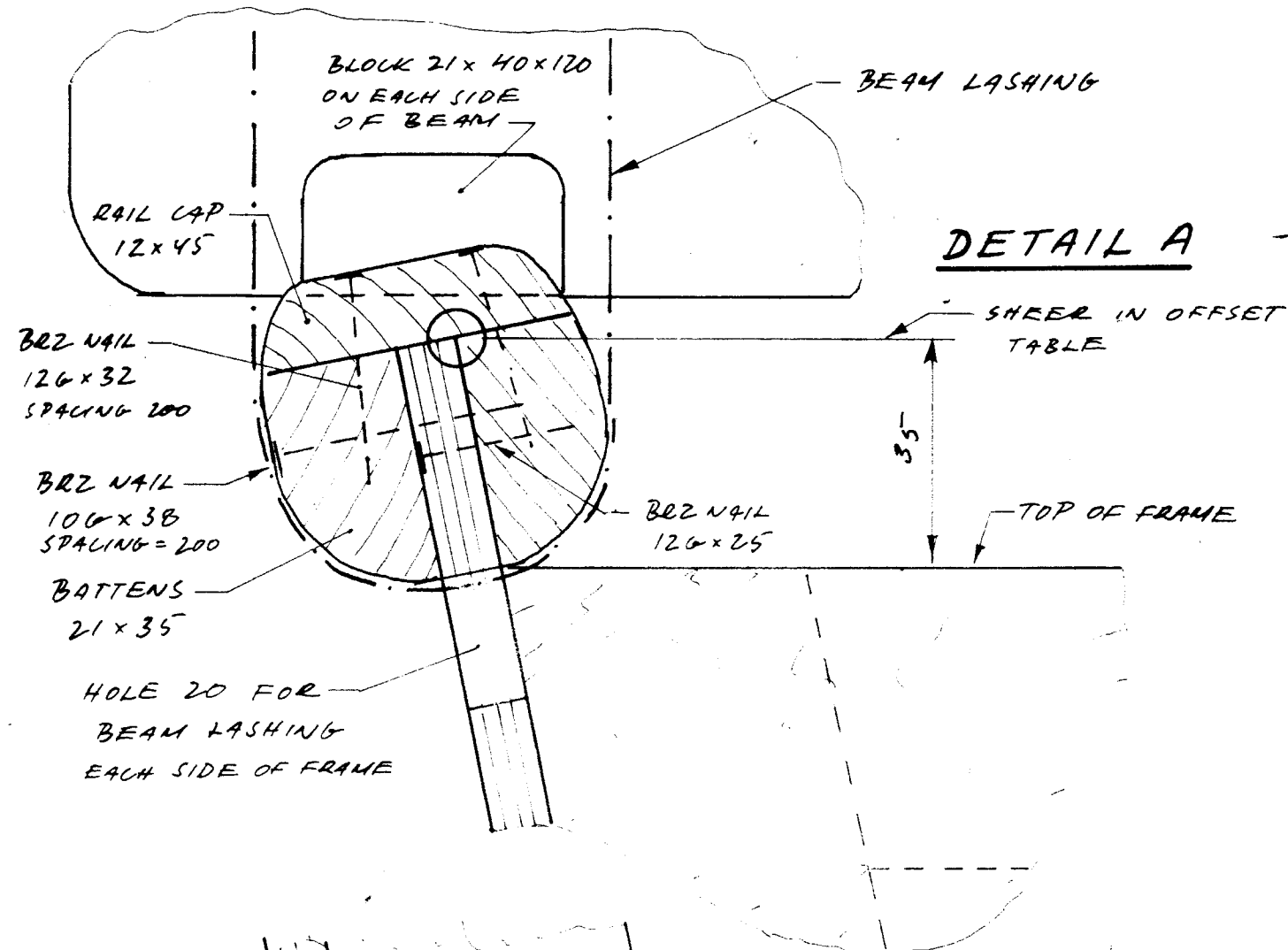
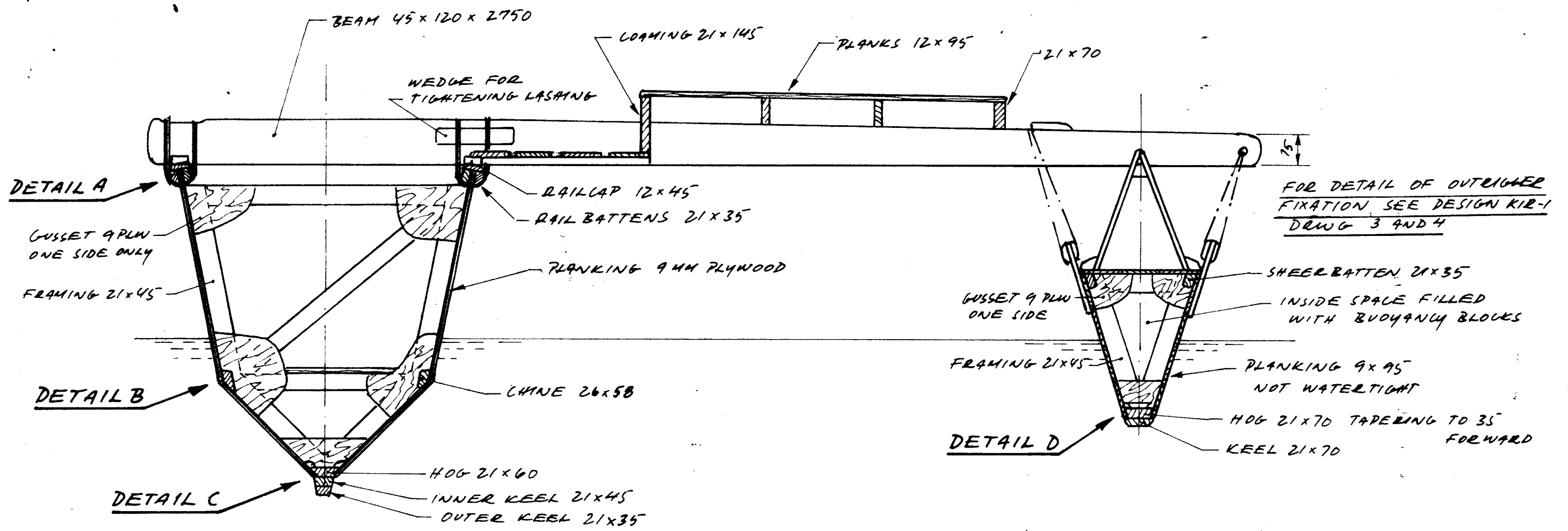
MAIN DIMENSIONS			
LENGTH OVER ALL	7.27 M	24' 0"	
BEAM MAXIMUM	2.75 M	9' 2"	
DEPTH MOULDED	0.75 M	2' 6"	
LENGTH DWL	6.70 M	22' 0"	
BEAM DWL (HULL)	0.56 M	1' 10"	
DRAUGHT - DWL	0.39 M	1' 3"	
FREEBOARD MIN. - DWL	0.40 M	1' 4"	
DISPLACEMENT			
	EMPTY	LOADED (DWL)	
HULL	175 kg	460 kg	
OUTRIGGER	45 kg	55 kg	
TOTAL	220 kg	515 kg	
RATIOS: (DWL)			
L/B = 6.70 / 0.56 = 12.0			
$\nabla M^3 = 1.71$			
$\Delta \text{ tons} = 48$			
PRISMATIC COEFF: 0.59			



7.25 M PROA		
LINES		
SCALE = 1:10	DESIGN NO.	DRAWG. NO.
DESIGN: ϕ Cal/broun	KIR-2	2
GRIMSHAW, OUT-82		



7.25 M PROA		
CONSTRUCTION		
SCALE = 1:10	DESIGN NO.	DRWG. NO.
DESIGN: J. G. G. G. G.	KIR-2	3
GRIMSTAD, OCT-82		



7.25M PROA

DETAILS

SCALE = 1:10, 1:1

DESIGN NO.

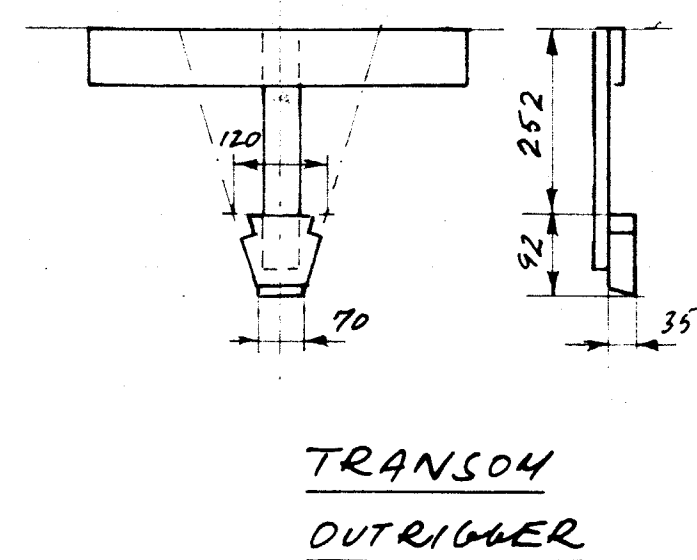
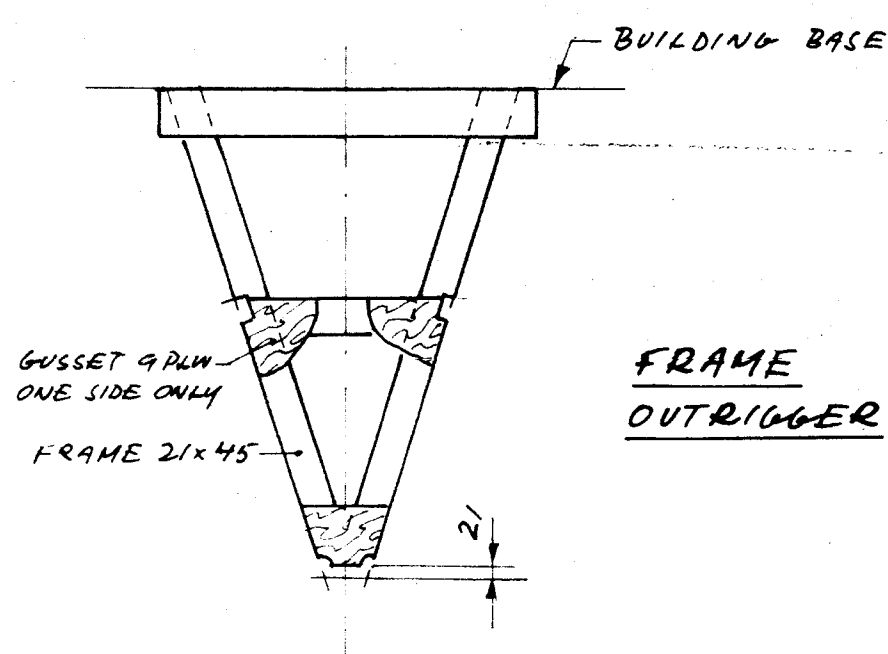
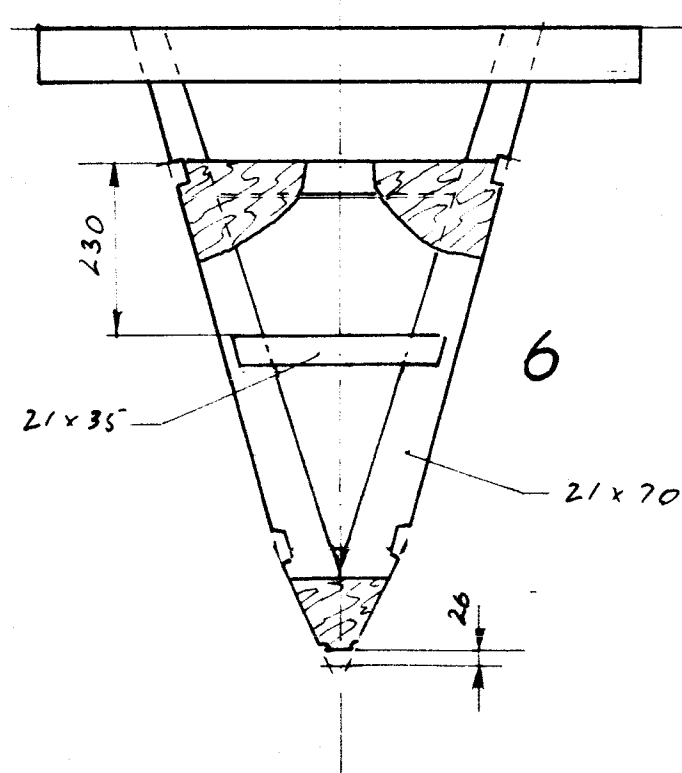
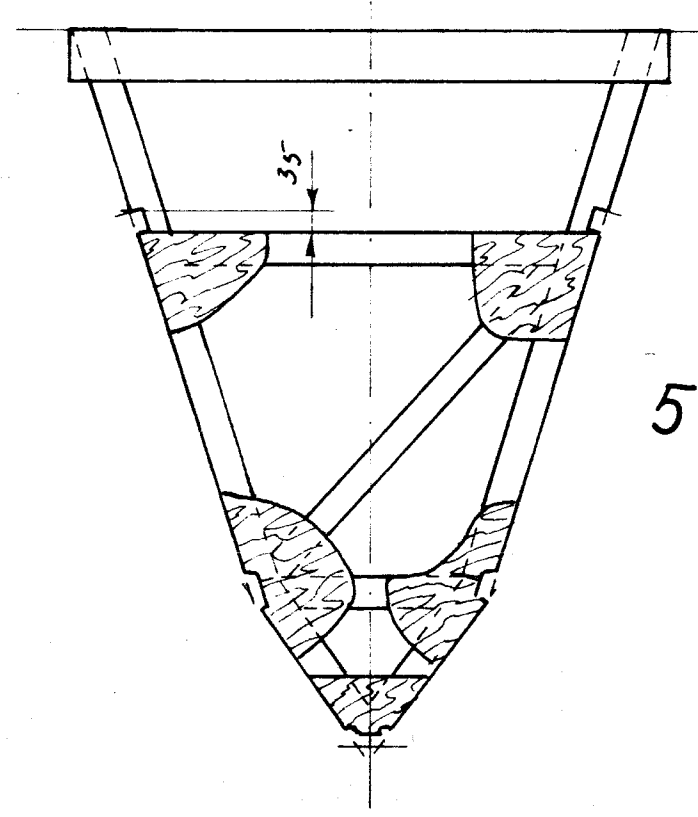
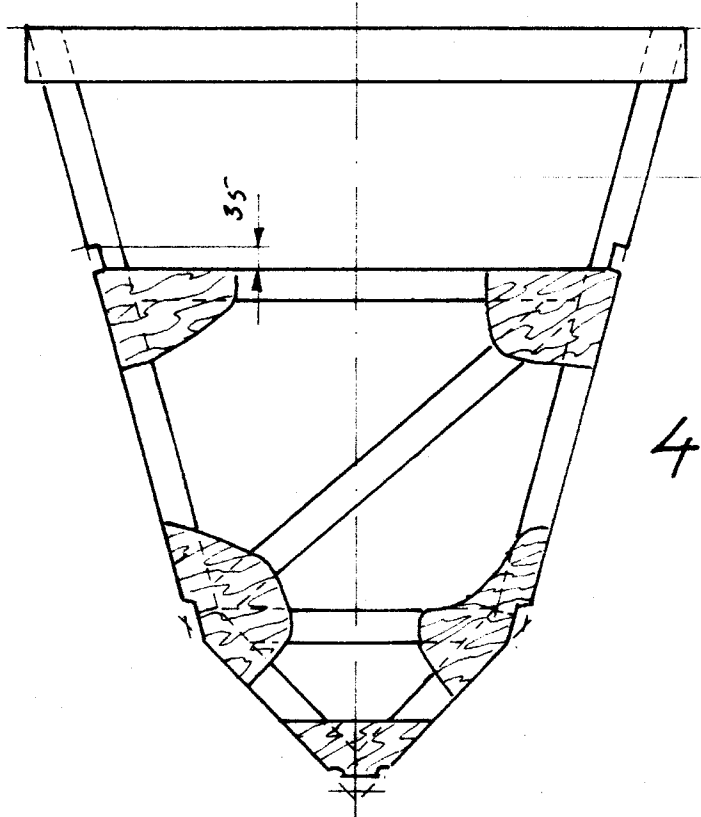
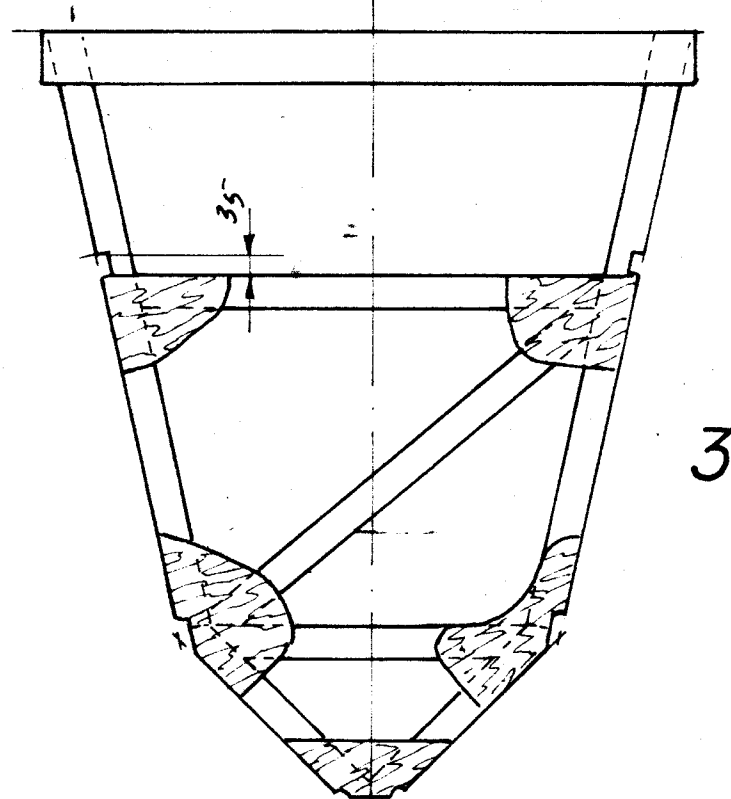
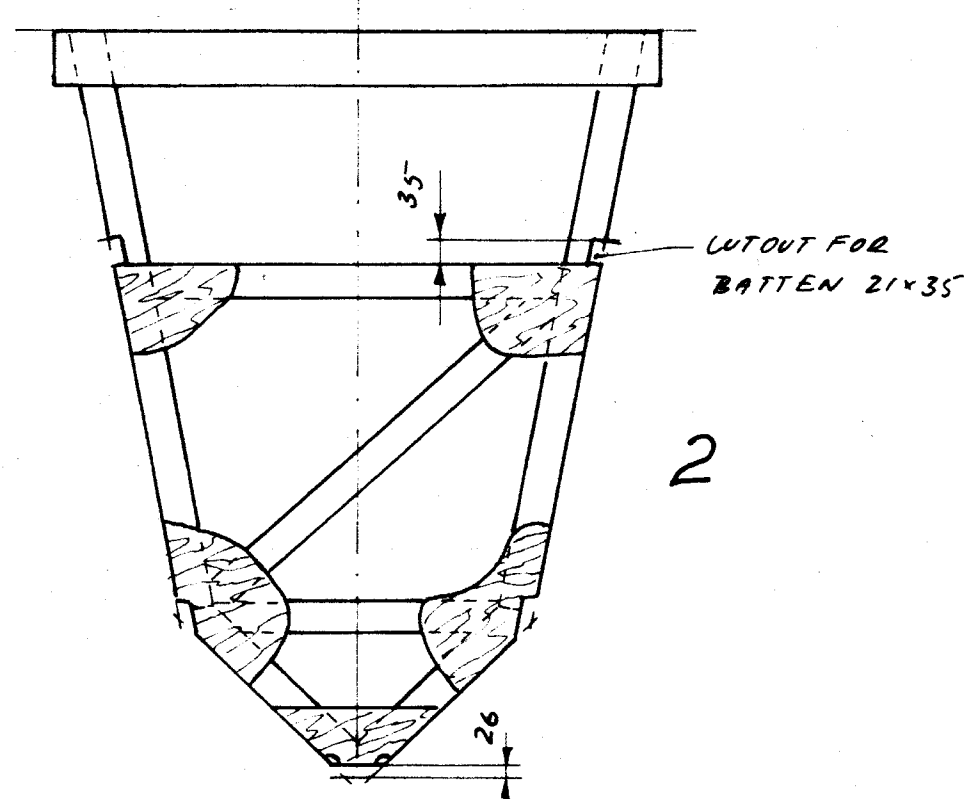
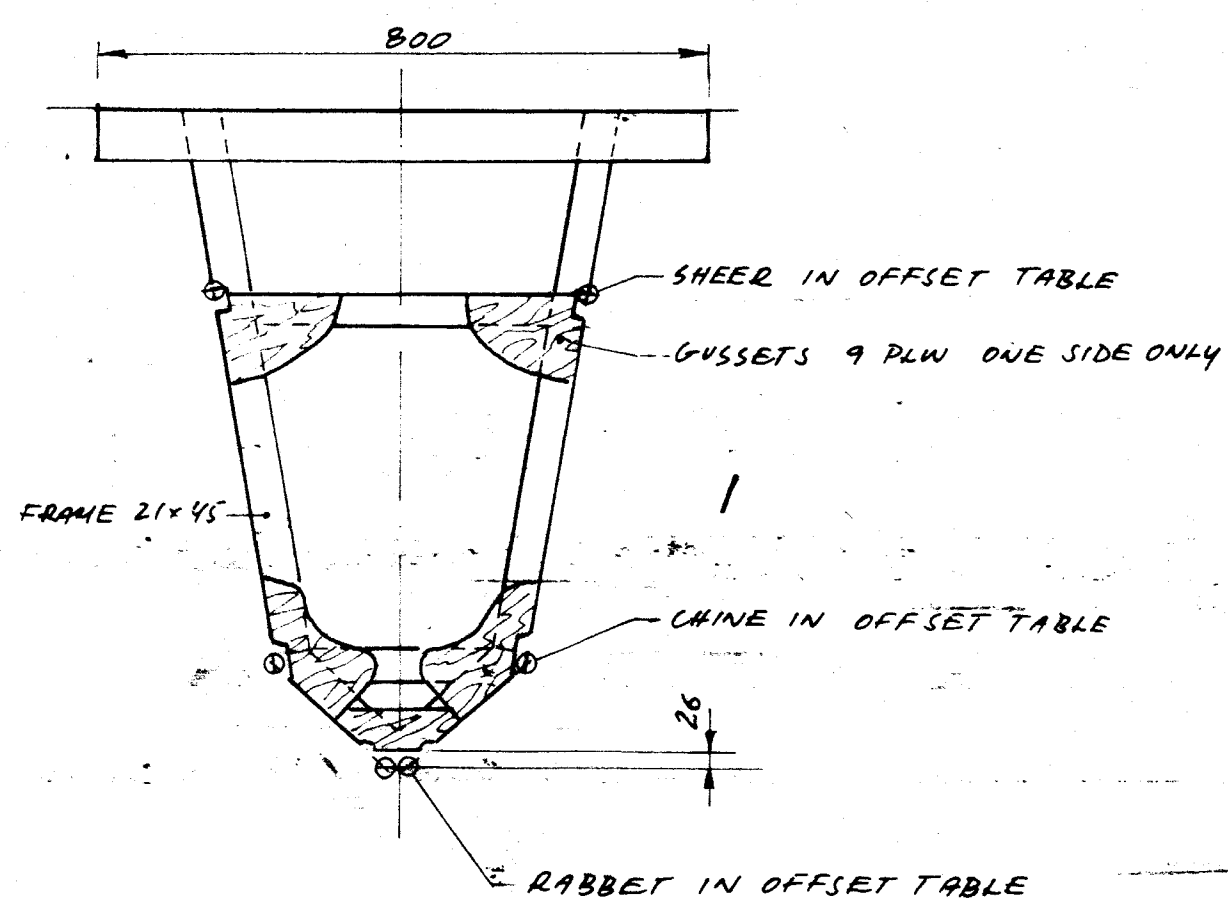
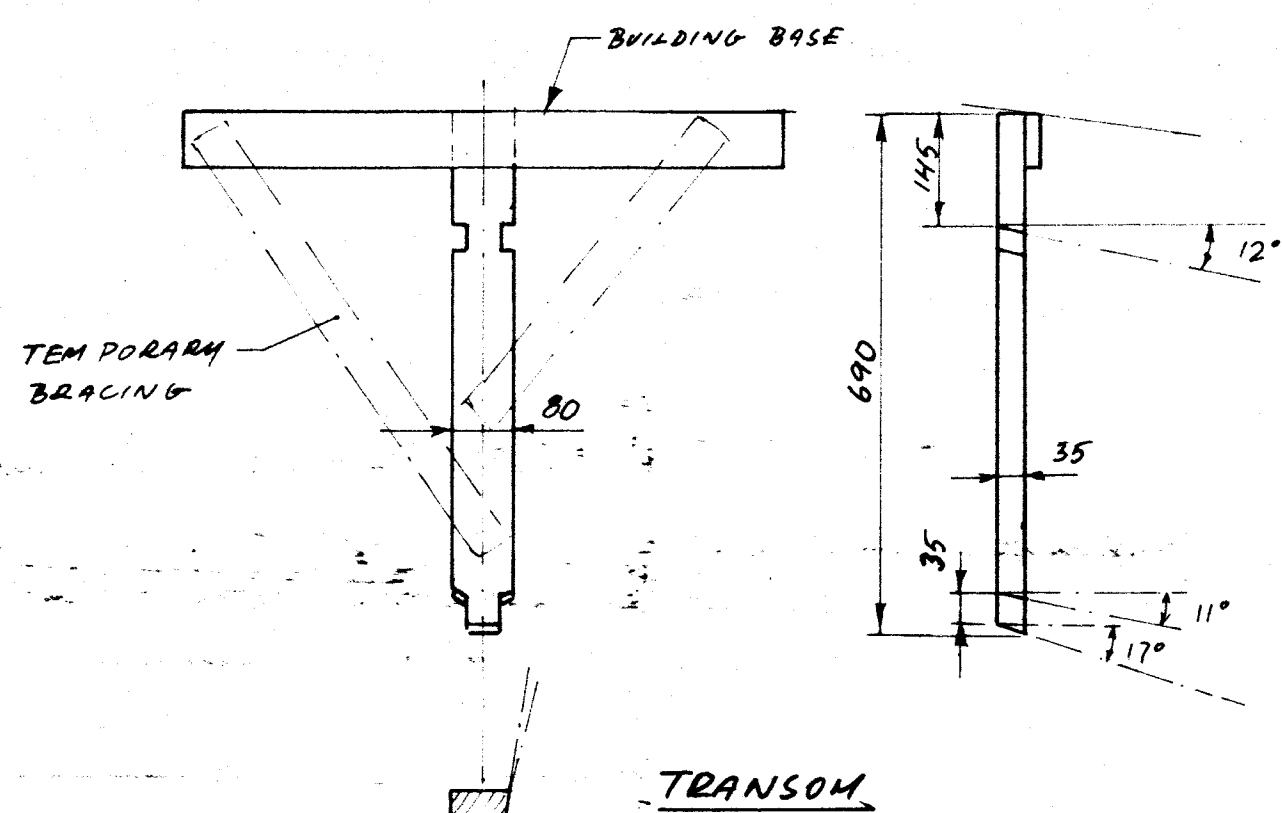
DRWG. NO.

DESIGN: G. Gulbrandson

KIR-2

4

GRIMSTAD, OUT. 82



7.25 M PROA

FRAMES

SCALE = 1:10

DESIGN NO:

DRWG. NO

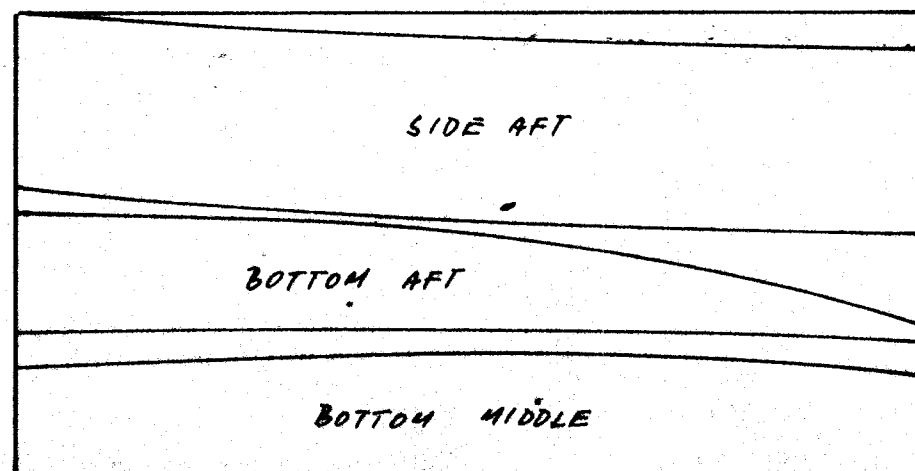
DESIGN: Ø. Cullmann

KIR-2

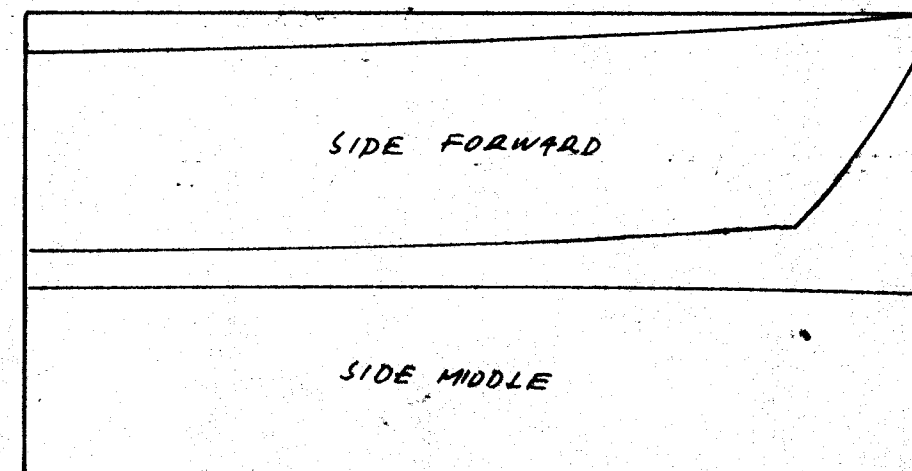
5

GRIMSTAD, OUT-B2

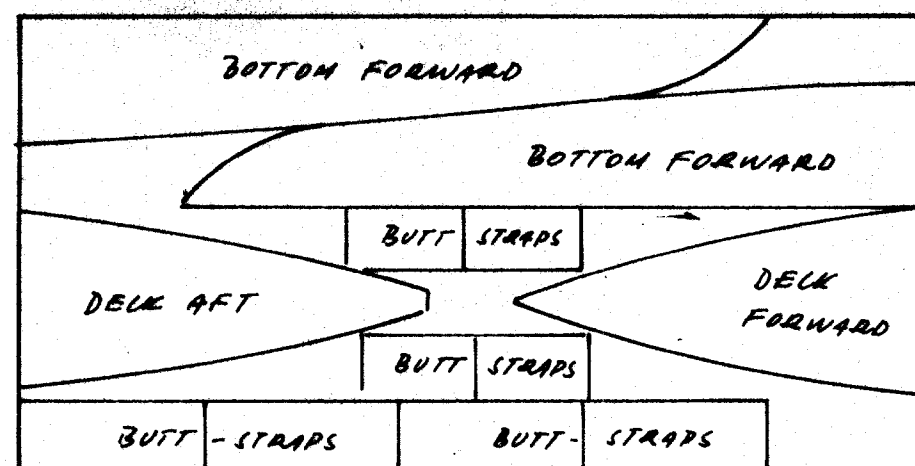
9 MM - 2 SHEET



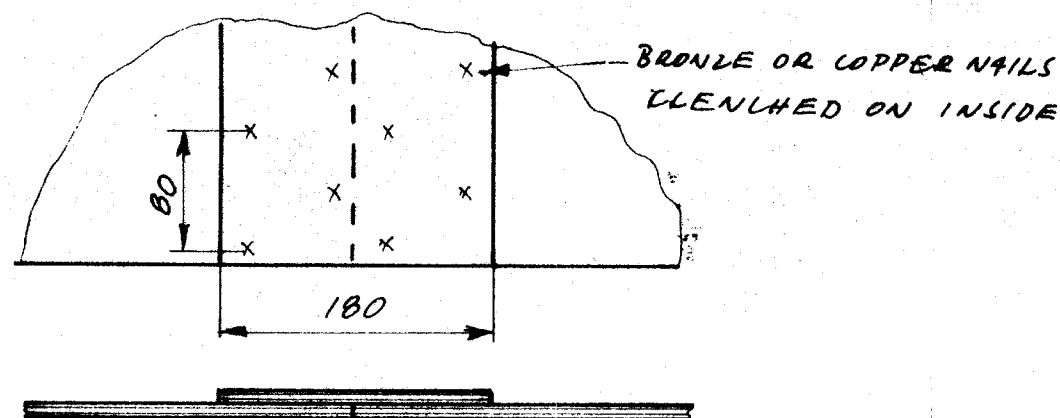
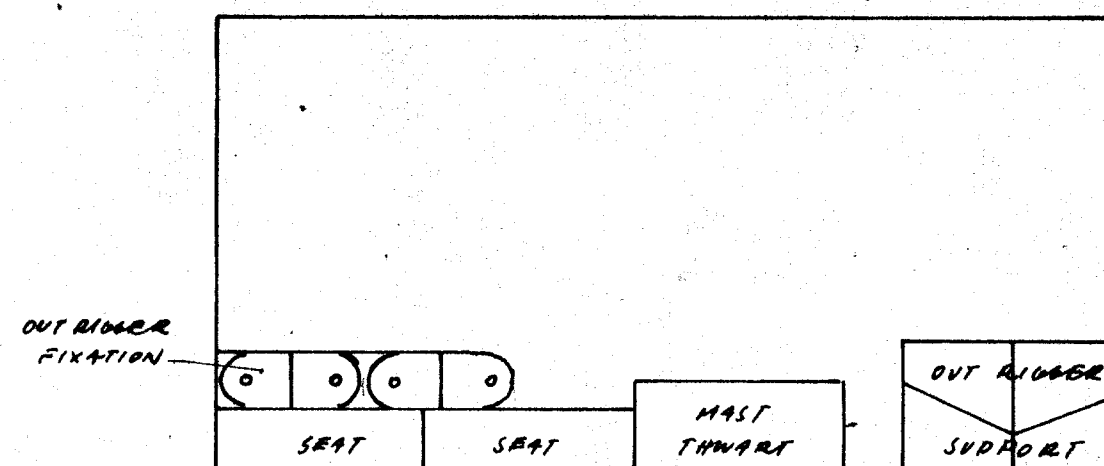
9 MM - 2 SHEET



9 MM - 1 SHEET



12 MM - 1 SHEET



9 MM PLYWOOD - BUTT JOINT

PLYWOOD REQUIREMENT

9 MM - 5 SHEET 1220 x 2440 (4' x 8')
12 MM - 1/3 SHEET 1220 x 2440 (4' x 8')



7.25 M PROA

PLYWOOD UTILIZATION

SCALE = 1:20	DESIGN NO.	DRAWG. NO.
DESIGN: Ø. Gullhaugen	KIR-2	6
GRIMSTAD, SEPT-82		

MATERIALS

DESIGN NO.

DRAWG. NO.

LENGTHS GIVEN IN METER

KIR-2

7

DIMENSION SAWN		IN	1/2 x 4	5/8 x 4	1 x 1 1/2	1 x 2	1 x 3	1 1/4 x 2 1/2	1 1/4 x 3	2 x 5	NOTES
		MM	13 x 100	16 x 100	25 x 38	25 x 50	25 x 76	32 x 64	32 x 76	50 x 125	
DIMENSION PLANED ALL ROUND		MM	9 x 95	12 x 95	21 x 35	21 x 45	21 x 70	26 x 58	26 x 70	45 x 120	
1	FRAMES					18	2			1	
2	HOG								6,5		
3	CHINE							14			
4	SHEER BATTENS				30						
5	RAIL CAP			5							WIDTH 45
6	FLOORING			15	10						
7	BEAM OUTR.									6	
8	FRAMES OUTR.					7					
9	HOG OUTR.						5				
10	BATTENS OUTR.				10						
11	PLANKING OUTR.		50								
12	KEEL OUTR.						5				
13	PLATFORM			12	3		8				
LENGTH, NET M			50	32	53	25	20	14	6,5	7	
VOLUME, NET M ³			0.043	0.036	0.038	0.024	0.029	0.021	0.012	0.038	TOTAL 0.24 M ³
LENGTH GROSS M WITH 25% WASTE			66	43	70	33	26	19	8	9	
VOLUME GROSS M ³ WITH 25% WASTE			0.085	0.069	0.067	0.041	0.049	0.039	0.019	0.056	TOTAL 0.46 M ³
SUMMARY		ALL TIMBER AND PLYWOOD TO BE PRESSURE TREATED WITH COPPER-CHROME-ARSENIC									
DIMENSION PLANED (MM)		LENGTH TOTAL (M)		MINIMUM LENGTH/PIECE (M)		DIMENSION PLANED (MM)		LENGTH TOTAL (M)		MINIMUM LENGTH/PIECE (M)	
9 x 95		66		5		26 x 70		8		4	
12 x 95		43		2,5		45 x 120		9		3,5	
21 x 35		70		4		MARINE PLYWOOD					
21 x 45		33		2		9 x 1220 x 2440 - 5 SHEET					
21 x 70		26		5		12 x 1220 x 2440 - 1/3 SHEET					
26 x 58		19		4							

'FASTENINGS								DESIGN NO.	DRAWG. NO.
								K12-2	8
		NAILS, BRONZE ANNULAR RINGED, FLAT HEAD			WOOD SCREWS, BRONZE SLOTTED, COUNTERSUNK HEAD				
DIMENSION	MM	2,7 x 25	2,7 x 32	3,4 x 38	4,2 x 25	4,9 x 32	4,9 x 38	5,6 x 45	
	IN	1" x 126	1 1/4" x 126	1 1/2" x 106	86 x 1"	106 x 1 1/4"	106 x 1 1/2"	126 x 1 3/4"	
GUSSETS TO FRAME		320							
HOG + CHINES TO FRAMES									25
PLANKING TO BATTENS AND FRAMES		1000			40				
RAIL STIFFENER TO SHEER BATTEN				80					
RAIL CAP TO SHEER			160						
INNER KEEL TO HOG				40					
OUTER KEEL TO I. KEEL + HOG									35
OUTER KEEL OUTR. TO HOG						35			
SEATS TO RAIL						30	30		
OUTRIGGER BRACKETS TO OUTR.						20	40	20	
BRIDGE DECK TO FRAMING			90						
FLOOR TO FLOOR STIFF			80						
RUDDER FITTINGS							20		
TOTAL NUMBER		1320	330	120	40	85	90	80	
NUMBER / kg		158	127	60					
QUANTITY kg		8.4	2.6	2					

SUMMARY

ITEM	DIMENSION	QUANTITY	ITEM	DIMENSION	QUANTITY
NAILS, BRONZE ANNULAR RINGED, FLAT HEAD	126 x 25	8.4 kg	COPPER BOATNAILS	146-25	0.5 kg
—— " ——	126 x 32	2.6 kg	GLUE, PHENOL-RESORCINOL		3 kg
—— " ——	106 x 38	2.0 kg			
WOODSCREWS, BRONZE COUNTERSUNK HEAD	86 x 25	40			
—— " ——	106 x 32	85			
—— " ——	106 x 38	90			
—— " ——	126 x 45	80			