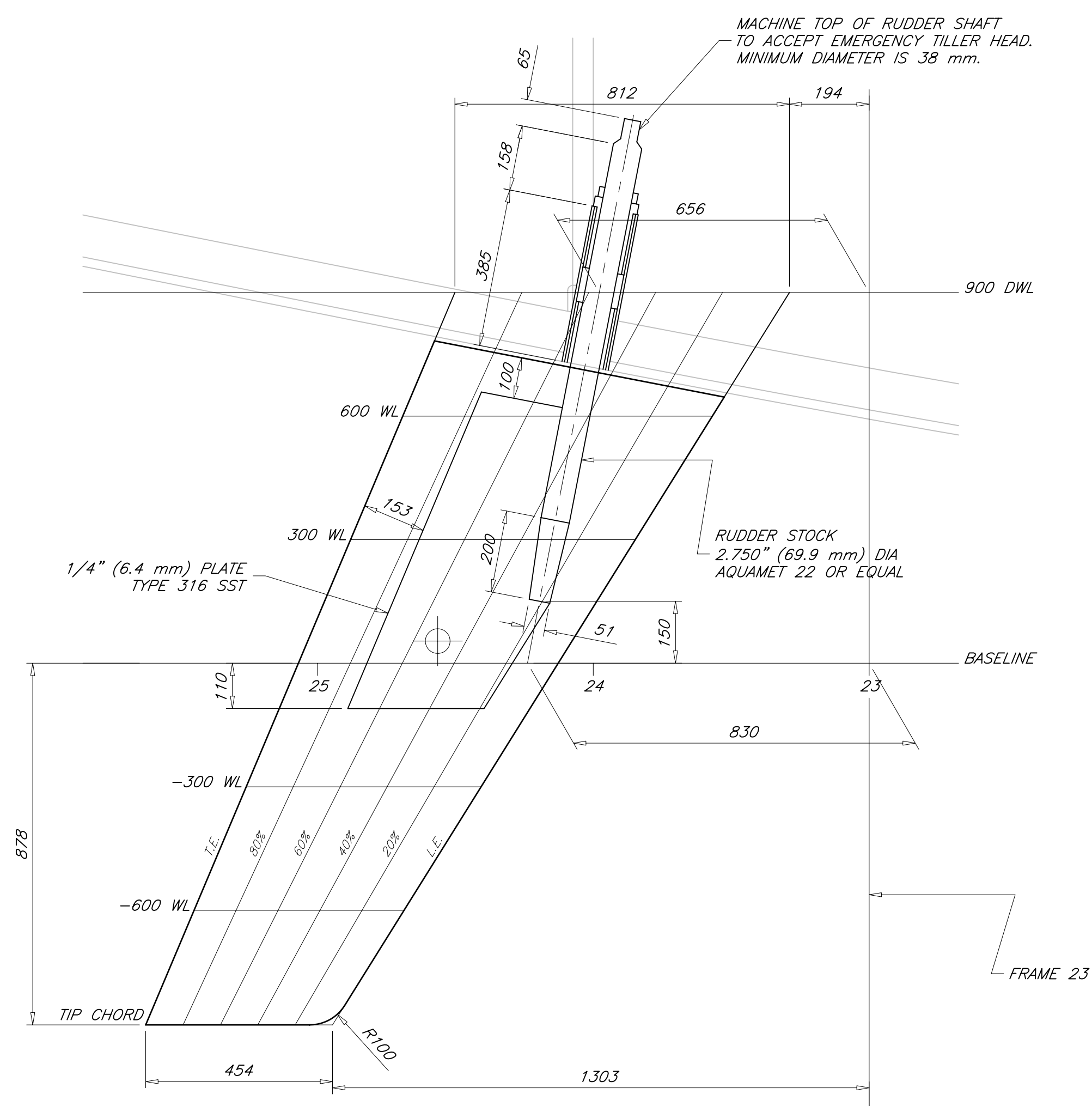
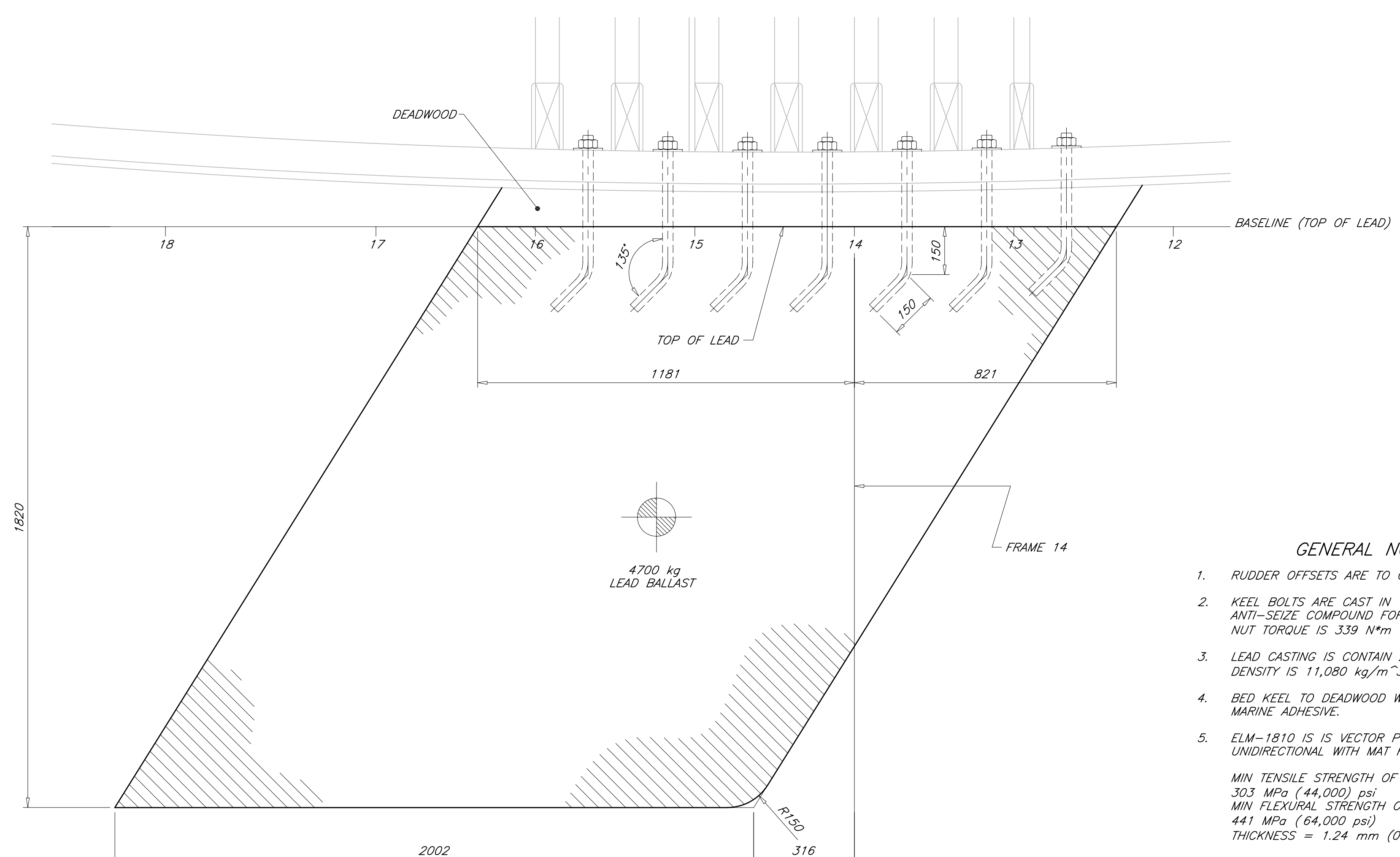


REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	-	ORIGINAL ISSUE	03 NOV 09	P. KOTZEBUE

ELEVATION D-7  
RUDDER PROFILE

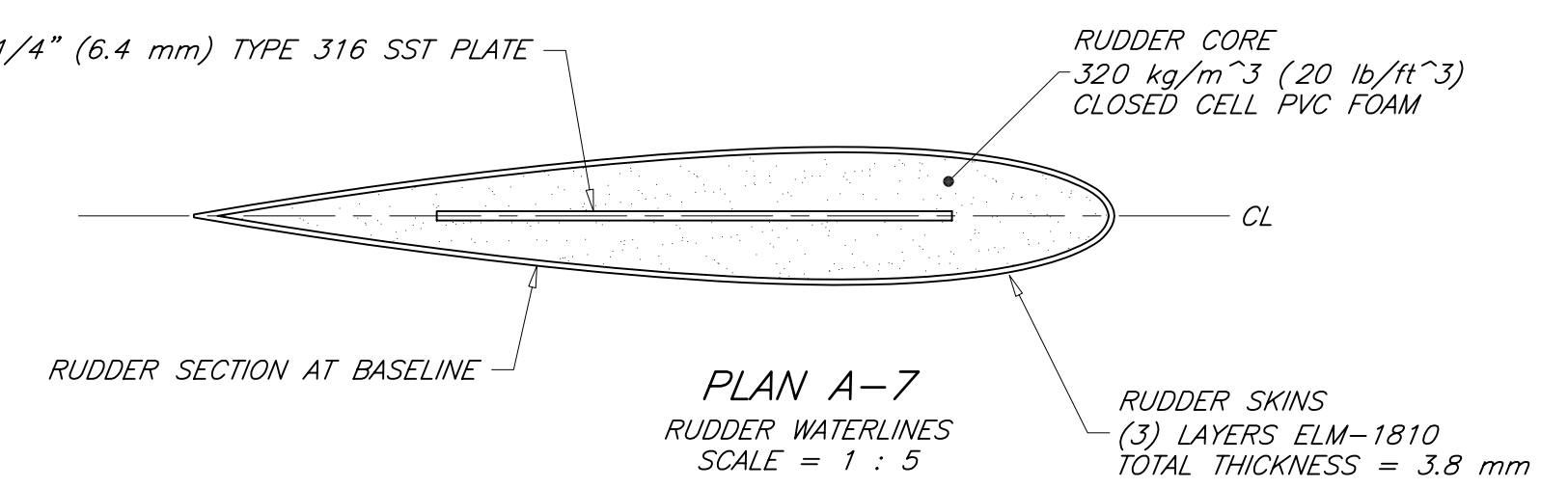
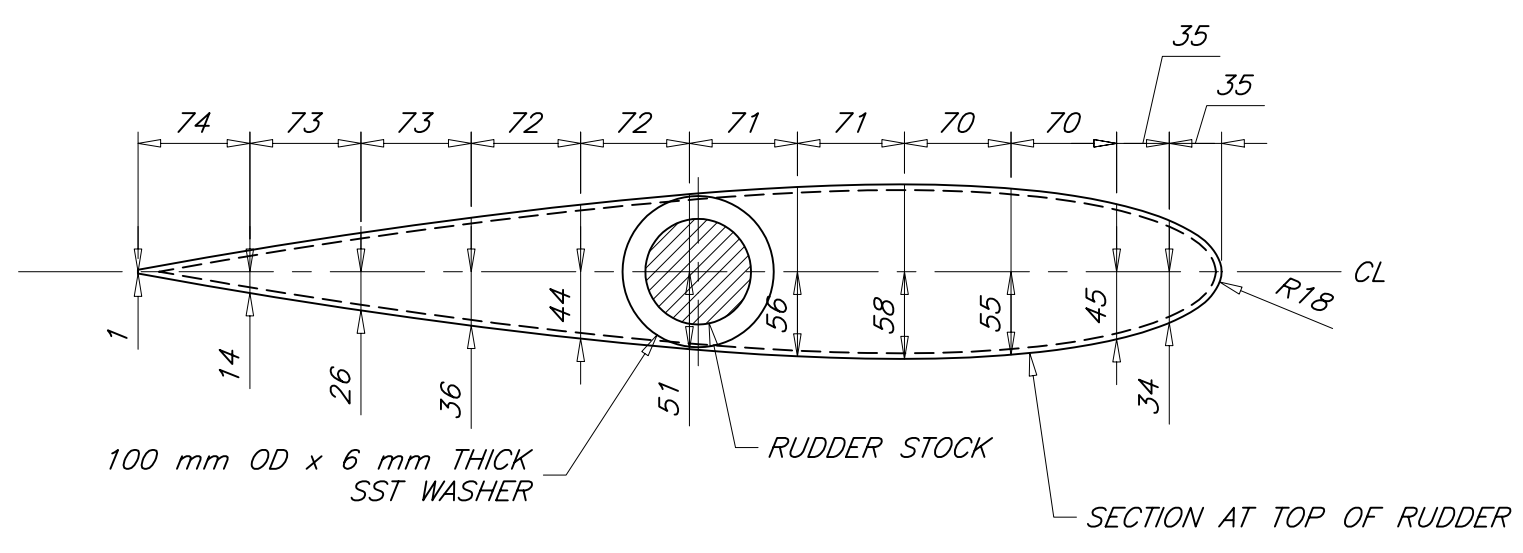


ELEVATION D-3  
KEEL PROFILE



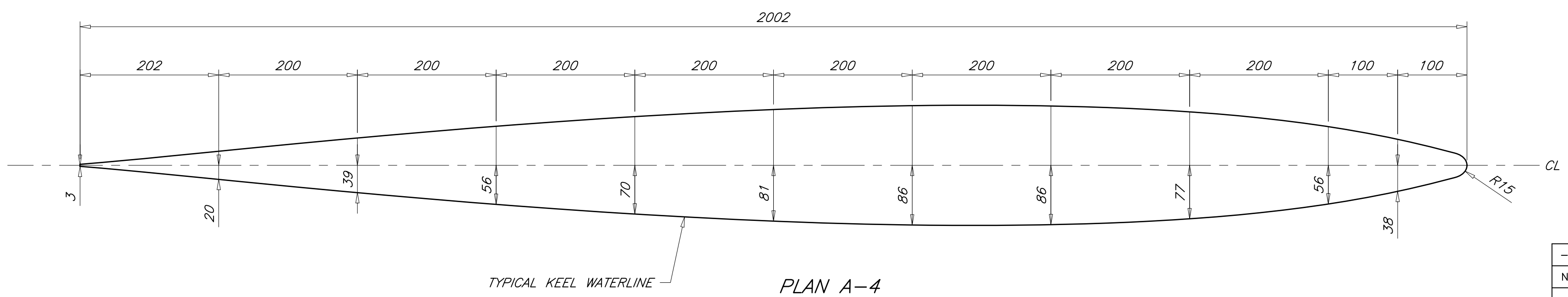
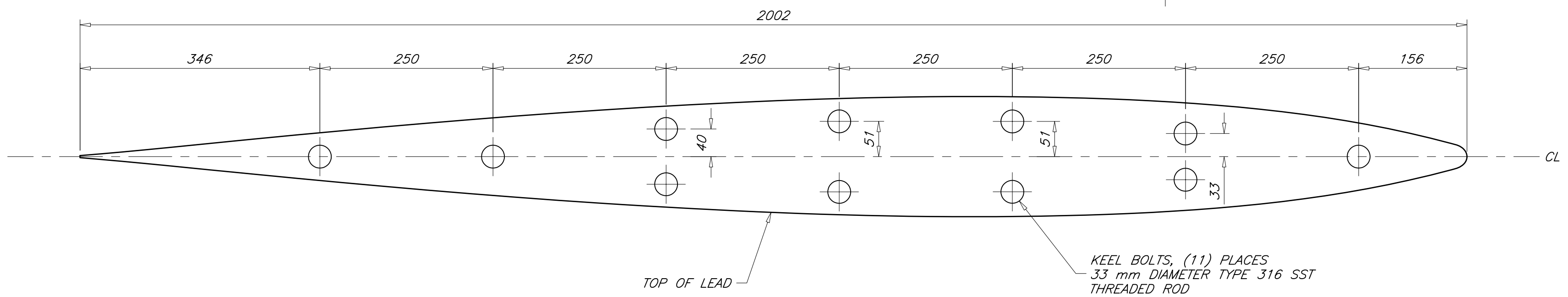
GENERAL NOTES

1. RUDDER OFFSETS ARE TO OUTSIDE OF RUDDER SKIN.
2. KEEL BOLTS ARE CAST IN TO LEAD KEEL. USE ANTI-SEIZE COMPOUND FOR NUTS. KEEL BOLT NUT TORQUE IS 339 N\*m (250 ft\*lb).
3. LEAD CASTING IS CONTAIN 2% TO 4% ANTIMONY. DENSITY IS 11,080 kg/m<sup>3</sup> (692 lb/ft<sup>3</sup>).
4. BED KEEL TO DEADWOOD WITH 3M 5200 OR EQUAL MARINE ADHESIVE.
5. ELM-1810 IS VECTOR PLY E-LM 1810 E GLASS UNIDIRECTIONAL WITH MAT FABRIC.  
MIN TENSILE STRENGTH OF CURED LAMINATE = 303 MPa (44,000 psi)  
MIN FLEXURAL STRENGTH OF CURED LAMINATE = 441 MPa (64,000 psi)  
THICKNESS = 1.24 mm (0.049") PER PLY



RUDDER OFFSETS

	C.L.	L.E.R.	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	T.E.	
900 DWL	812	20	36	48	58	61	59	54	46	37	27	15	1	900 DWL
600 WL	742	18	33	43	53	56	54	49	42	34	24	13	1	600 WL
300 WL	691	17	31	40	50	52	50	46	39	32	23	13	1	300 WL
BASELINE	631	16	28	37	45	47	46	42	36	29	21	11	1	BASELINE
-300 WL	570	14	25	33	41	43	41	38	33	26	19	10	1	-300 WL
-600 WL	510	13	23	30	37	38	37	34	29	23	17	9	1	-600 WL
TIP CHORD	454	11	20	27	34	34	33	39	26	21	15	8	1	TIP CHORD



NO	TITLE	DWG NO
REFERENCES		
STOCK PLANS		
18.2 METER SKERRY CRUISER		
KEEL AND RUDDER DETAILS		

PAUL R. KOTZEBUE, PE  
MECHANICAL ENGINEER  
Encinitas, California USA

DRAFTER: PK	DATE: 03 NOV 09	SIZE: ARCH D	DWG NO: 04-A3	REV: -
CHECKER: PK	DATE: 03 NOV 09	SCALE: 1 : 10	SWBS: --	SHEET: 1 OF 1

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