

SPECIFICATION:

L.O.A.	12.190 m	40'-0"
D.W.L.	9.720 m	31'-11"
BEAM.	3.990 m	13'-1"
DRAFT.	2.288 m	7'-6"
DISPLACEMENT	6270 kg.	13822 lbs.

MAST:

MOMENTS OF INERTIA FOR GUIDANCE IN SELECTION OF A SUITABLE SECTION:

LOWER PANEL	MINIMUM	$I_{yy} - 233 \text{ cm}^4$	5.60 in ⁴
	MINIMUM	$I_{zz} - 982 \text{ cm}^4$	23.6 in ⁴
2nd PANEL	MINIMUM	$I_{yy} - 231 \text{ cm}^4$	5.55 in ⁴
	MINIMUM	$I_{zz} - 835 \text{ cm}^4$	20.1 in ⁴
3rd PANEL	MINIMUM	$I_{yy} - 204 \text{ cm}^4$	4.91 in ⁴
	MINIMUM	$I_{zz} - 739 \text{ cm}^4$	18.2 in ⁴
4th PANEL (BEFORE TAPER)	MINIMUM	$I_{yy} - 183 \text{ cm}^4$	4.40 in ⁴
	MINIMUM	$I_{zz} - 701 \text{ cm}^4$	16.8 in ⁴

HALYARDS:

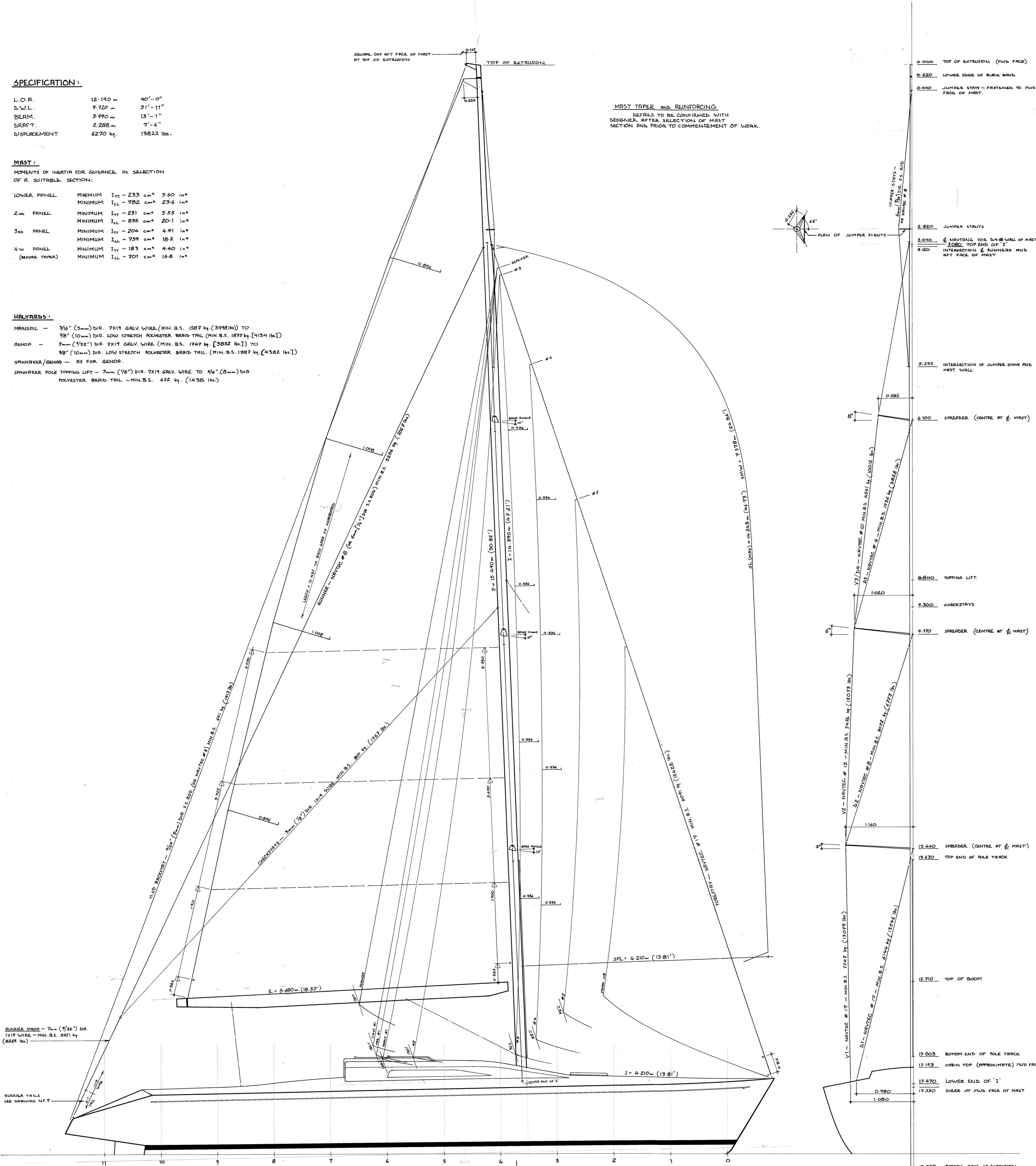
MAINSAIL - 3/8" (9.5mm) DIA. 7X19 GALV. WIRE (MIN. B.S. 1587 kg (3498 lb)) TO 3/8" (10mm) DIA. LOW STRETCH POLYESTER BRAID TAIL (MIN. B.S. 1877 kg (4134 lb))
 GENOA - 5mm (1/32") DIA. 7X19 GALV. WIRE (MIN. B.S. 1747 kg (3852 lb)) TO 3/8" (10mm) DIA. LOW STRETCH POLYESTER BRAID TAIL (MIN. B.S. 1987 kg (4382 lb))
 SPINNAKER/GENOA - AS FOR GENOA.
 SPINNAKER POLE TOPPING LIFT - 3mm (1/8") DIA. 7X19 GALV. WIRE TO 3/8" (10mm) DIA. POLYESTER BRAID TAIL - MIN. B.S. 652 kg (1435 lb)

SQUARE OFF FT FACE OF MAST AT TOP OF EXTRUSION.

TOP OF EXTRUSION

MAST TAPER AND REINFORCING

DETAILS TO BE CONFIRMED WITH DESIGNER AFTER SELECTION OF MAST SECTION AND PRIOR TO COMMENCEMENT OF WORK.



MAST RAKE IN I.O.R. TRIM
 FROM FT FACE OF MAST BY THE TOP END OF 'I' TO THE BEE FACE OF MAST AT THE CABIN TOP - SQUARE OFF MAST.

- 0.000 TOP OF EXTRUSION (FWD FACE)
- 0.220 LOWER EDGE OF BLACK BAND
- 0.640 JUMPER STAYS - FASTENED TO FWD FACE OF MAST.
- 2.820 JUMPER STRUTS
- 3.040 INTERSECTION FOR 5th & 6th WALL OF MAST
- 3.120 INTERSECTION OF RUNNERS AND FT FACE OF MAST
- 5.235 INTERSECTION OF JUMPER STAYS AND MAST WALL
- 6.100 SPREADER (CENTRE AT 1/2 MAST)
- 8.840 TOPPING LIFT
- 9.300 CHECKSTAYS
- 9.770 SPREADER (CENTRE AT 1/2 MAST)
- 13.660 SPREADER (CENTRE AT 1/2 MAST)
- 13.630 TOP END OF POLE TRACK
- 15.910 TOP OF BOOM
- 17.005 BOTTOM END OF POLE TRACK
- 17.193 CABIN TOP (APPROXIMATE) FWD FACE
- 17.470 LOWER END OF 'I'
- 17.330 SHEER AT FWD FACE OF MAST
- 18.937 BASE OF EXTRUSION, COUPLER ON BOAT (SUBJECT TO THICKNESS OF BASE PLUS, ETC. FROM THIS DIMENSION.)

REVISIONS: A - 6 FEB 1982 - #1 & #2 RIGGED B - 18 FEB 1982 - JUMPER STAYS ADDED C - 18 APR 1982 - CORRECTED 'I' D - 8 NOV 85 - UPDATE OF JUMPER STRUTS & JUMPER STAYS.		BRUCE FARR & ASSOC. INC. P.O. BOX 3457, ANNAPOLIS, MD. 21403, U.S.A. FOR: I.O.R. RACING YACHT	
SCALE: 1:25	DESIGN NO: 158	TITLE: SHIPPLAN & RIG	COMPANY: 5 FEB. 1982
THE I.O.R. RACING YACHT DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE I.O.R. RACING YACHT RULES AND REGULATIONS. THIS DRAWING MUST NOT BE REPRODUCED OR USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH THE RIG OR DESIGN FOR WHICH IT WAS DRAWN. WITHOUT THE DESIGNER'S WRITTEN CONSENT, THE COST OF THESE PLANS INCLUDES FEES FOR ONE BOAT ONLY FOR NO ADDITIONAL BOATS SHALL BE BUILT FROM THESE PLANS WITHOUT THE DESIGNER'S WRITTEN CONSENT AND PAYMENT OF FEES.		DRAWING NO: B	