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MAST AND RIGGING SPECIFICATIONS

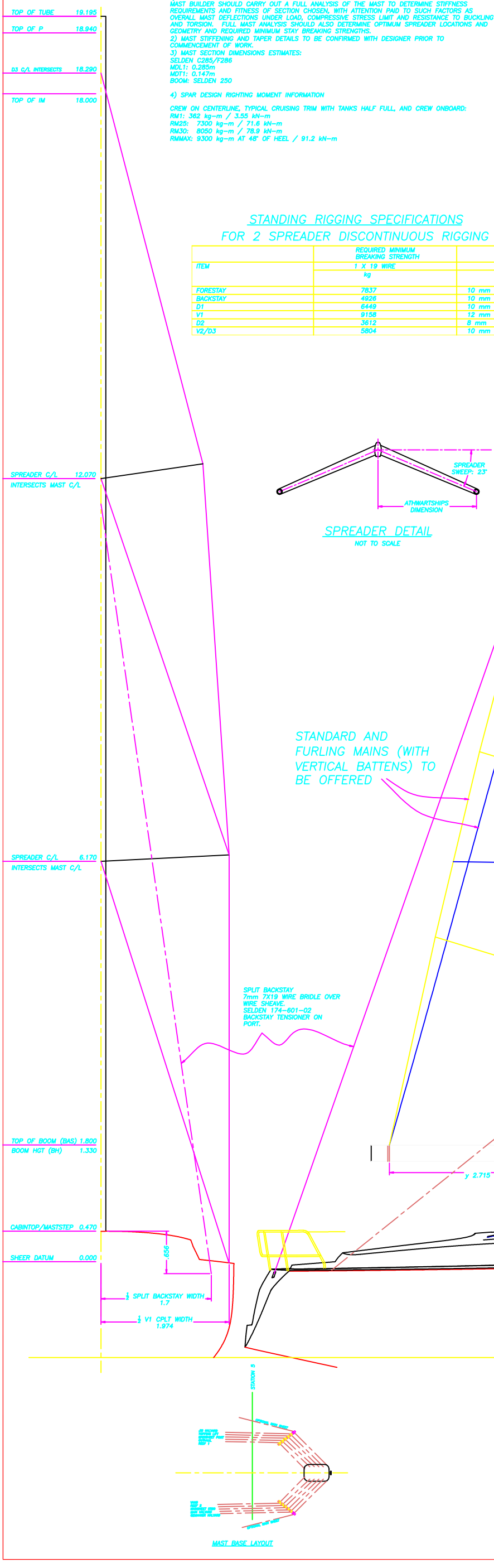
IMPORTANT NOTES:
1) STANDING RIGGING SPECIFICATION FOR GUIDANCE IN SELECTION OF APPROPRIATE RIGGING ONLY. MAST BUILDER SHOULD CARRY OUT A FULL ANALYSIS OF THE MAST TO DETERMINE STIFFNESS REQUIREMENTS AND FITNESS OF SECTION CHOSEN, WITH ATTENTION PAID TO SUCH FACTORS AS OVERALL MAST DEFLECTIONS UNDER LOAD, COMPRESSIVE STRESS LIMIT AND RESISTANCE TO BUCKLING AND TORSION. FULL MAST ANALYSIS SHOULD ALSO DETERMINE OPTIMUM SPREADER LOCATIONS AND GEOMETRY AND REQUIRED MINIMUM STAY BREAKING STRENGTHS.
2) MAST STIFFENING AND TAPER DETAILS TO BE CONFIRMED WITH DESIGNER PRIOR TO COMMENCEMENT OF WORK.
3) MAST SECTION DIMENSIONS ESTIMATES:
SELDEN C285/F286
MDL1: 0.285m
MDT1: 0.147m
BOOM: SELDEN 250

4) SPAR DESIGN RIGHTING MOMENT INFORMATION

CREW ON CENTERLINE, TYPICAL CRUISING TRIM WITH TANKS HALF FULL, AND CREW ONBOARD:
RM1: 362 kg-m / 3.55 kN-m
RM25: 7300 kg-m / 71.6 kN-m
RM30: 8050 kg-m / 78.9 kN-m
RMMAX: 9300 kg-m AT 48° OF HEEL / 91.2 kN-m

STANDING RIGGING SPECIFICATIONS
FOR 2 SPREADER DISCONTINUOUS RIGGING

ITEM	REQUIRED MINIMUM BREAKING STRENGTH 1 X 19 WIRE kg	
FORESTAY	7837	10 mm
BACKSTAY	4926	10 mm
D1	6449	10 mm
V1	9158	12 mm
D2	3612	8 mm
V2/D3	5804	10 mm



MAST RAKE IN DWL TRIM 1.0 DEGREES
MEASURED FROM MAST STEP AT DECK ALONG AFT FACE TO HOUNDS
RAKE TO BE MEASURED WITH DOCK LOAD ONLY.
NOTE: CORRECTION MUST BE MADE FOR DIFFERENCE BETWEEN DWL AND MEASUREMENT TRIM. CONSULT FARR YACHT DESIGN PRIOR TO FINAL RAKE SETUP.

REVISIONS:
E. MAR. 08, 2010: CC: REMOVED BOAT CHARACTERISTICS FROM 'SPAR DESIGN RIGHTING MOMENT INFORMATION'.
D. FEB. 17, 2010: KC: MOVED BACKSTAY SPLIT HIGHER IN BACKSTAY, SPECIFIED BACKSTAY TENSIONER.
C. DEC. 4, 2009: LS: MOVED BOOM UP 50 mm, ADDED MAST BASE LAYOUT FROM DESK LAYOUT
B. SEP. 23, 2009: LS: ADDED EXTRA MAST HEIGHT AND LONGER BOOM, INCREASED RAKE TO 1.0 DEG, ADDED MORE DETAILS.

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FOR- BAVARIA
TITLE CRUISER 45
SAILPLAN

DESIGN No. 695
SCALE: 1=25
DRAWN: LS
CHECKED:
SHEET No. 1 of 1
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DRAWING No. S4_0501_E

THE BUILDER MUST CHECK DIMENSIONS AND CONTENT, EVEN ON THE DRAWING AND ADVISE THE DESIGNER OF ANY DISCREPANCIES BEFORE COMMENCING CONSTRUCTION. THIS DRAWING MUST NOT BE REPRODUCED OR USED FOR ANY PURPOSE, OTHER THAN IN CONNECTION WITH THE BOAT OR DESIGN FOR WHICH IT WAS DRAWN, WITHOUT THE WRITTEN CONSENT OF FARR YACHT DESIGN, LTD. THE COST OF THESE PLANS INCLUDES FEES FOR ONE BOAT ONLY FOR PERSONAL USE. ANY OTHER USE WITHOUT WRITTEN CONSENT SHALL BE SUBJECT TO A FEE FROM THEREOF IN ANY, WITHOUT THE AFFORDED, WRITTEN, CONSENT, AND PAYMENT