

# HORIZONTAL DONKEY BOILER

To Lloyds Requirements for a working pressure of 180 lbs per Square Inch.

All Plates, Rivets, Stays & Girders of Steel.

Tubes of Wrought Iron

SCALE ONE INCH = ONE FOOT

U.S. Test Pressure 320 lbs per sq"

## RIVETING

Comb Chambers (Circumferential & Longitudinal seams) & Furnaces

single riveted 8 Rivet Holes 2 1/2 Pitch 2 1/2 Lap

Side plates to be not less than 6 3/8"  
4 additional rivets required

MANHOLE 16" x 12"  
Stiffening Ring 8" x 3"  
Rivet Holes 1" Dia

Heating Surface 878 sq

## STAYS

TENSILE STR TONS / sq	DIAM INCH	THICK INCH	EFF AREA INCH	NO OF STAYS
26	1 5/8	9	11.48	173
30	1 3/4	9	16.02	121
28	2	6	17.23	2
32	2 1/2	6	28.4	13

Plain Tubes 1199 W.G

78 OFF 6-10" LONG

46 OFF 6-10" LONG

Stay Tubes 5" thick 9 thrs per inch EFF AREA 2-1737

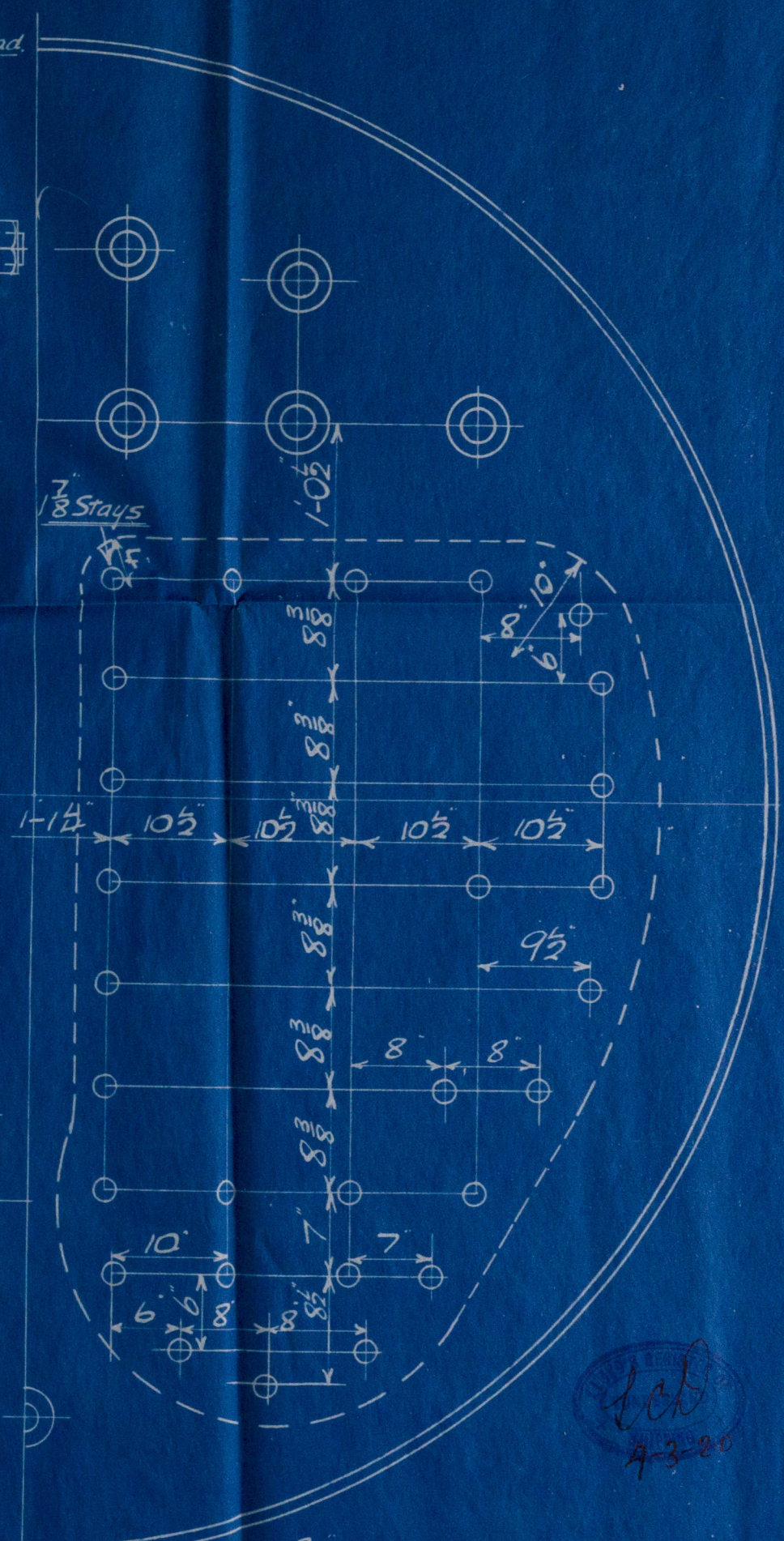
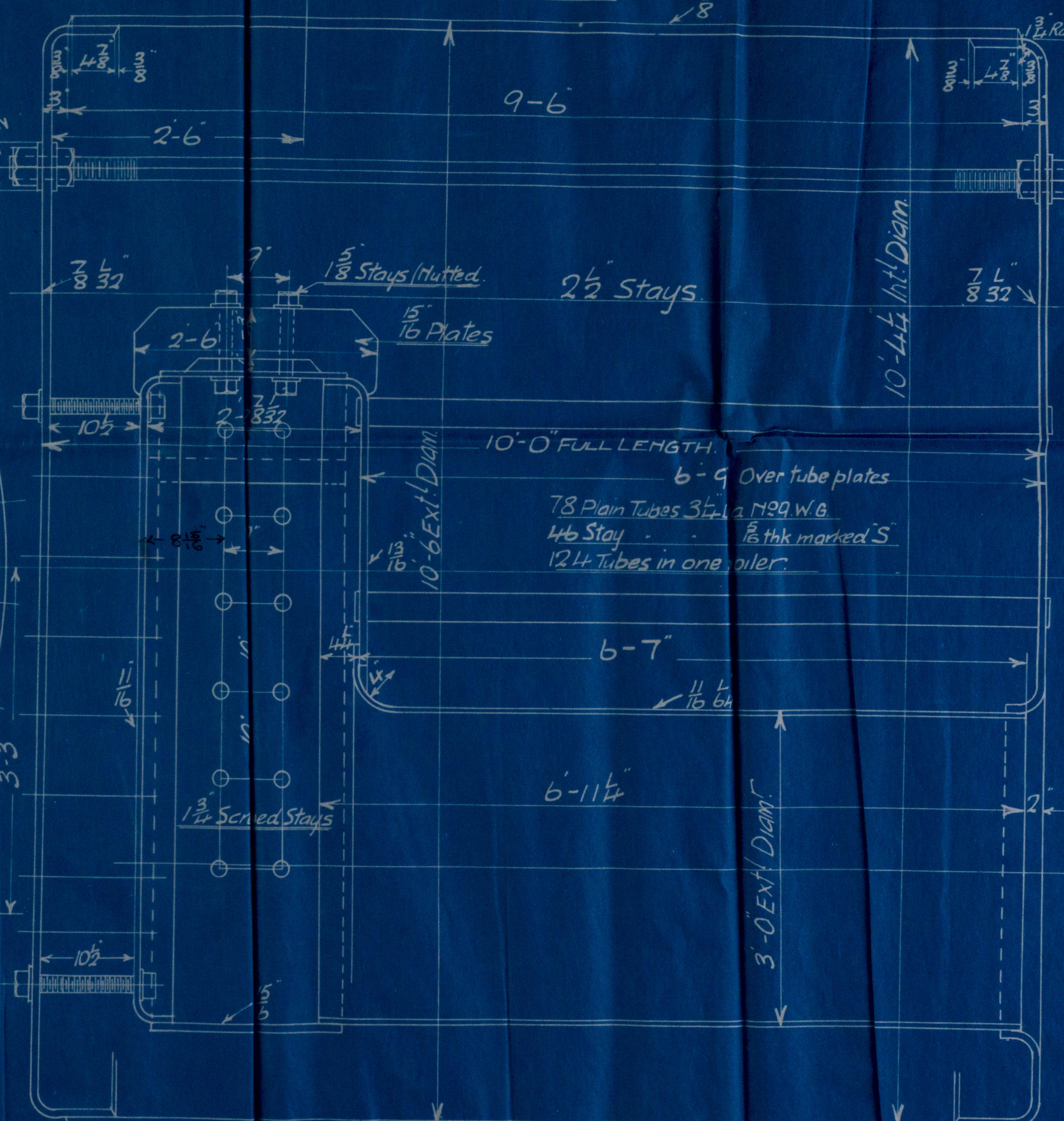


LONGITUDINAL SEAMS FITTED WITH DOUBLE BUTT TRAPS

Straps 1/8 thick Rivet Holes 1" Dia Scale 1/2 Foot

Tensile Strength of Shell Plates, Butt Strap, Manhole

Stiffening Rings & Comb. Chr Girders 28 to 32 tons per sq"



ENG.

DATE

Nº 1067

855 Intended for Messrs Hort Bros S.S. L+13.

Jan 14<sup>th</sup> 1920

Nº 1068

858 Intended for Messrs Hort Bros S.S. L+14.

Jan 14<sup>th</sup> 1920

NOTE: Stays between Comb Chambers & marginal stays in backs screwed thro' both plates & nut fitted at each end.

Stays from Comb. Chamb. to Shell & remainder of stays in backs to have nut on inner end only & to project 3/8" & to be caulked.

1 3/4 Screwed Stays

1000-0124



SUNDERLAND

J. DICKINSON & SONS LTD

DONKEY BOILER NO 1068

WP = 180 LBS

ENGINES NO 858

~~SHORT BRUS LTD SN 414~~  
~~J. L. THOMPSON & SONS LTD SP 548~~

SUNDERLAND RPT. NO. 28514

No. 3731
LLOYD'S TEST
320 lbs.
WP = 180 LBS
4-11-20 L.C.D.



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Lloyd's Register  
Foundation

W306-0124