

14-3-07

DIMENSIONS.	
LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM OF TUBES OUTSIDE	3 1/2"
LENGTH OF TUBES	Over Plates 6'-4"
NO OF TUBES	164
SURFACE OF TUBES	880
TOTAL HEATING SURFACE	1110
WORKING PRESSURE	lbs 180
DIAM OF SAFETY VALVE	

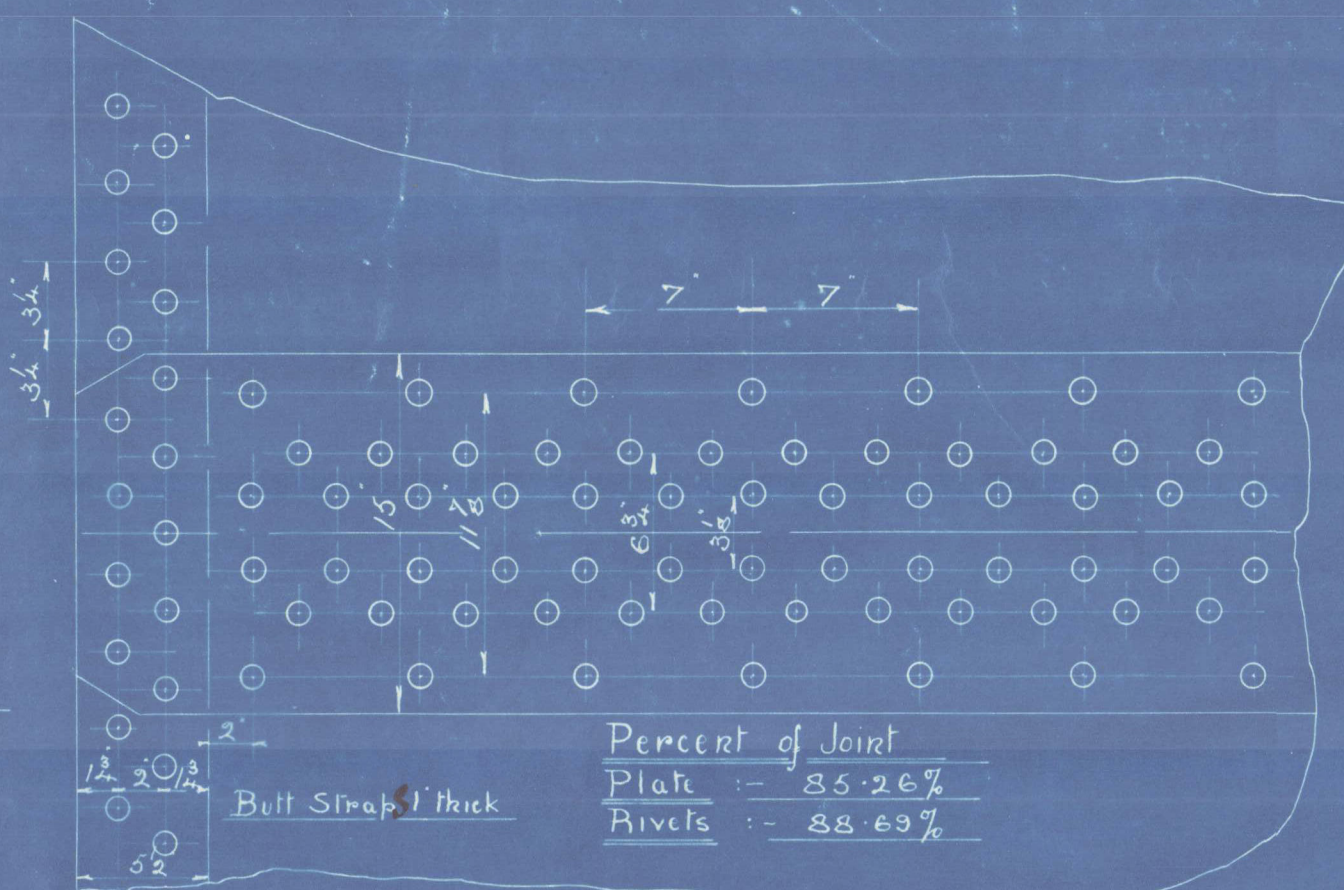
PARTICULARS OF RIVETING.

SHELL:- longitudinal joint to be triple riveted double butt joint holes drilled 1 1/2" dia 7" pitch
circumferential seams to be double riveted lap joints holes drilled 1 1/2" dia 3 1/2" pitch

FURNACES:- to be single riveted at back & bottom half of front top half of front double riveted longitudinal joint welded

COMB CHAMBERS:- Bottoms & Sides to level of furnace tops to be double riveted Rest to be single riveted

END PLATES:- Cross Seams to be double riveted



MANHOLE IN SHELL 16" x 12"
lined inside with 1" Plate 7" broad

CINDER STAYS:- Double Iron
7/8" thick 9" Deep 8" Pitch
fitted with 3 steel supporting bolts
1 1/2" dia 2-07 Eff Area 8 1/2" Pitch

LINING PLATE
to be fitted between tubenests

STEEL STAYS 2 1/2" dia 5-78 Eff Area screwed into both plates
Front ends 3/8" filled with 3/8" Nuts Back ends fitted 2 1/8" Nuts
Inside nuts 1 1/2" thick Washers 3" dia 3/8" thick

SHELL PLATES 28 TONS TENSILE

6'-4" Over Plates

24 PLAIN TUBES 3 1/2" Out dia N° 8 BWG swelled 1/8" at Front End
70 STAY TUBES 7/8" thick in body screwed at Ends to 3 1/2" x 3 1/2" dia 1/8" thickness

Longitudinal Joint Welded

Holmes Patent Furnaces Withdrawable

2 1/2" Steel Stay

COMBUSTION CHAMBERS
to have Steel Stays 1 1/2" dia 1/8" Eff dia
2-07 Eff Area

ALL SCREWED STAYS
to be screwed into both Plates
& fitted with nuts at Each End

STAYS marked ©
to be between
Comb Chambers
at Centre

STAYS marked ⊗
to be between Comb
Chambers & Shell

1 1/2" STEEL STAYS
1 1/2" Eff dia
2-07 Eff Area

STAYS - marked thus
to be 1 1/2" dia

TO PASS LLOYDS

12'-0" OUT DIA 10'-0" LONG
180 LBS W.P.

BOILER N° 838

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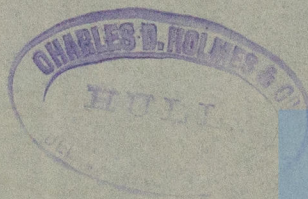
CHARLES D HOLMES & CO
ENGINEERS & BOILER MAKERS

HULL 25.9.05



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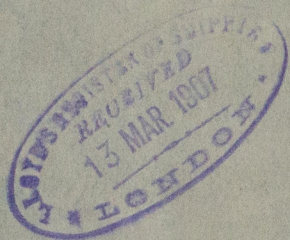
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Charles D. Holmes & Co
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Boiler 838

180th

sp "Othello"
Hull Report No. 19570



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