

12.11.06

DIMENSIONS.

LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM OF TUBES OUTSIDE	3 1/2"
LENGTH OF TUBES	6'-4"
NO OF TUBES	124
SURFACE OF TUBES	966
TOTAL HEATING SURFACE	1210
WORKING PRESSURE	200 lbs
DIAM OF SAFETY VALVE	2 1/2"

Particulars of Rivetting

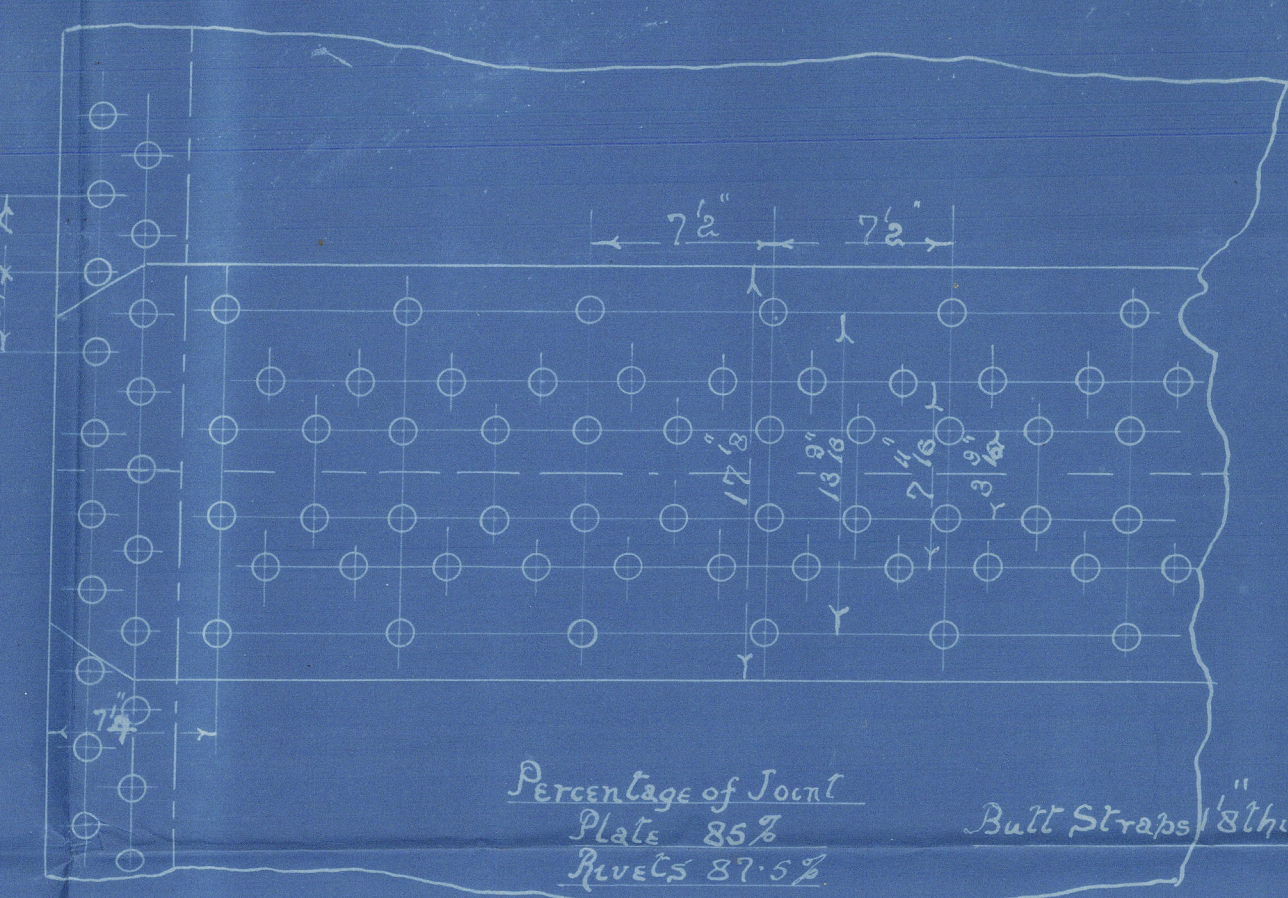
Shell Longitudinal seams to be triple rivetted double butt straps
holes drilled 1 1/2" dia 7 1/2" pitch
Circumferential seams to be double rivetted lap joints
holes drilled 1 1/2" dia 3 1/2" pitch

Furnaces:- Front end to be single rivetted Back end to be single rivetted.

Comb. Cham. to be double rivetted along bottom and up sides to level of furnace tops remainder to be single rivetted.

End Plates Cross seams to be double rivetted.

Manhole in shell 16" x 12"
lined inside with 1/8" plate
7" broad.



Percentage of Joint
Plate 85%
Rivets 57.5%

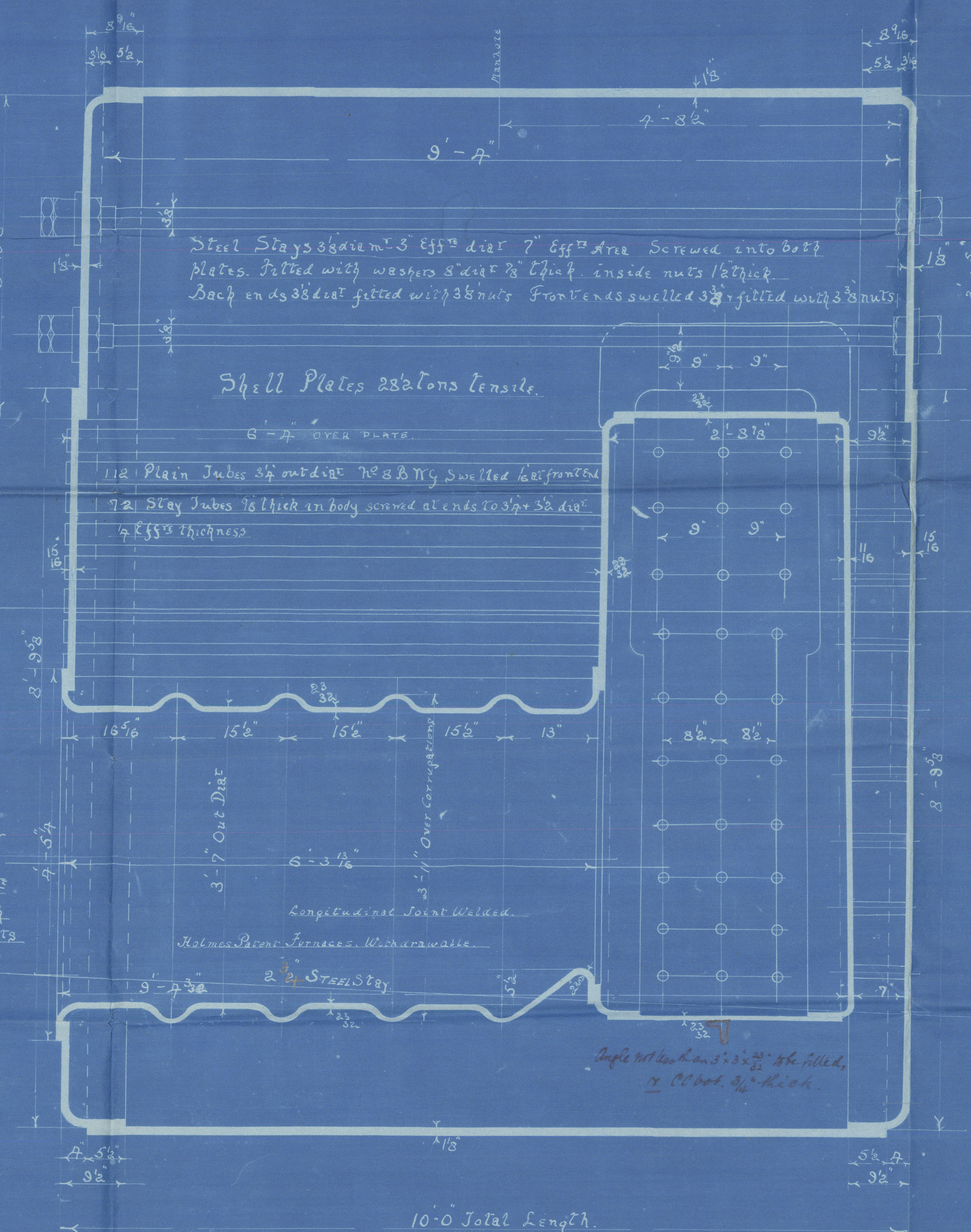
Butt Straps 3/4" thick



Double Girder Stays of Steel
9 1/2" deep 7 1/2" thick 8 1/2" pitch
With 3 steel supporting bolts
1 1/2" dia 2.07 Eff. Area 9" Pitch

Combustion Chamber
Steel Stays 1 1/2" dia
1.625 Eff. dia 2.07 Eff. Area
screwed into both
plates & fitted with nuts
at each end.

12'-6" Out Diam 10'-0" Long
200 lbs W.P.



Steel Stays 3/4" dia 7" Eff. Area
Screwed into both
plates. Fitted with washers 3" dia 7" thick inside nuts 1 1/2" thick.
Back ends 3/8" dia fitted with 3/8" nuts Front ends swelled 3/4" fitted with 3/8" nuts.

Shell Plates 28 lbs tensile.

5'-7" OVER PLATE

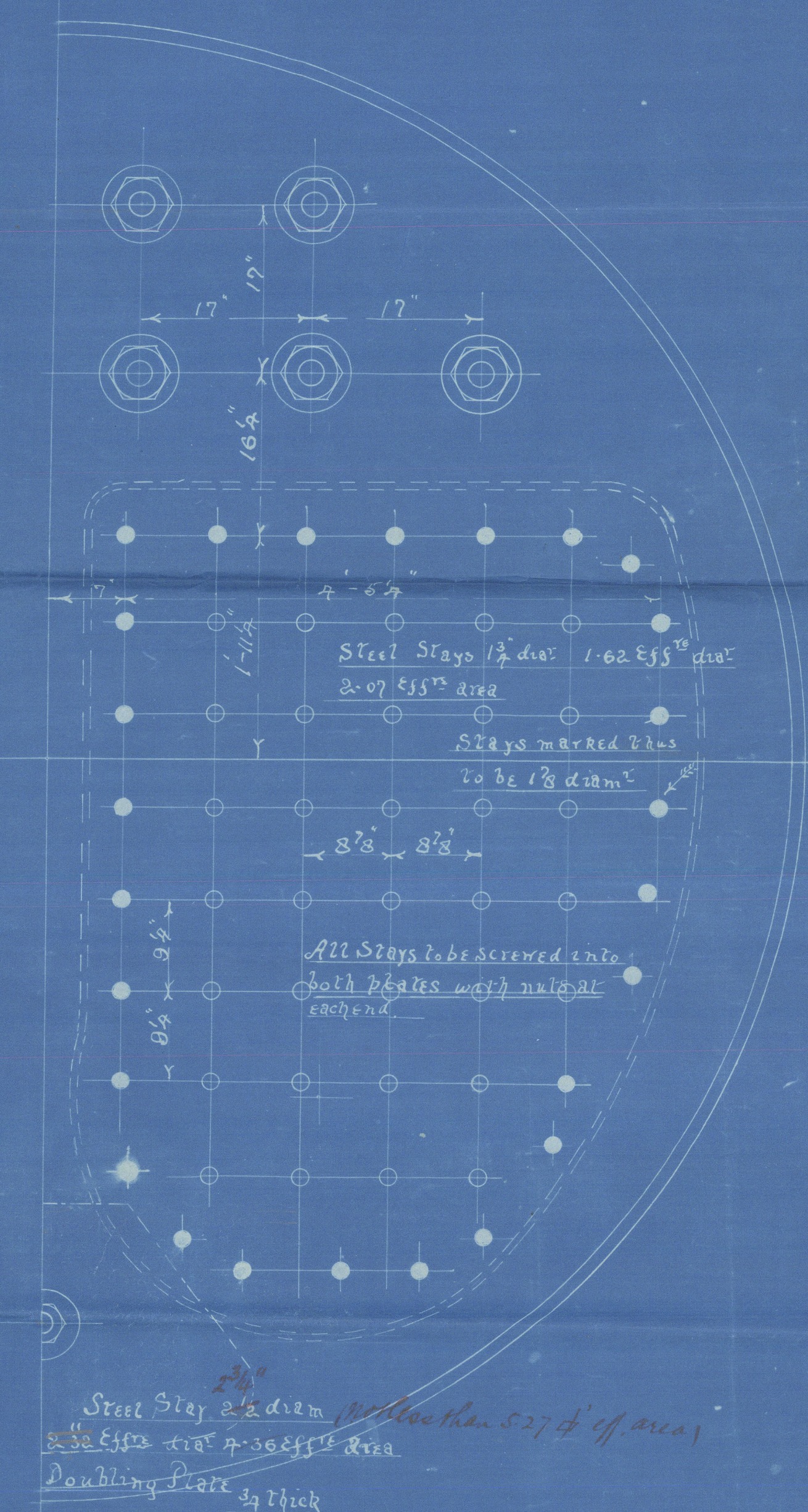
112 Plain Tubes 3 1/2" out dia 7" 3 B.M. Swelled for front end
72 Stay Tubes 7/8" thick in body screwed at ends to 3/4" 3/8" dia
4 Eff. Area

Longitudinal Joint Welded

Holmes Patent Furnaces. With removable

2 1/2" STEEL STAY

Single nut & washers 3/4" dia 7" thick
at each end.



Steel Stays 1 1/2" dia
2.07 Eff. Area
Stays marked 28 lbs
to be 1 1/2" dia

All Stays to be screwed into
both plates with nut at
each end.

Steel Stay 2 1/2" dia 7" 3 B.M. Swelled for front end
2.07 Eff. Area
Doubling Plate 3/4" thick

STEEL BOILER NO 831

CHARLES D HOLMES & CO
HULL ENGINEERING WORKS
HULL

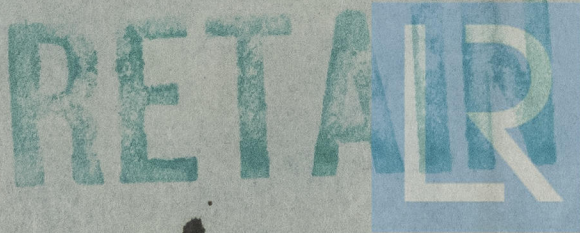
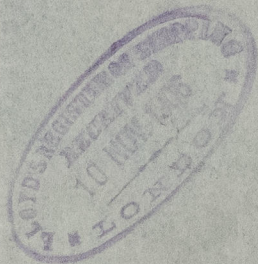
Charles D. Holmes & Co
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- Boiler No. 831 -

200 lbs

of "Marcelle"

Hull Report No. 192857



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