

15.8.02

DIMENSIONS.

LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM. OF TUBES OUTSIDE	3 1/4"
LENGTH OF TUBES Over Plates	6'-6 3/8"
NO OF TUBES	196
SURFACE OF TUBES	1063 sq ft
TOTAL HEATING SURFACE	1330 sq ft
WORKING PRESSURE	200 lbs
DIAM. OF SAFETY VALVE	

Particulars of Riveting
Shell: Longitudinal seams to be treble riveted double butt straps
holes drilled 1 1/8" diam 7" pitch.
Circumferential seams to be double riveted lap joints
holes drilled 3/4" diam 3 1/4" pitch.

Furnaces: Front end to be single riveted back end to be single riveted.

Comb Cham: To be double riveted along bottom and up sides to level of
furnace tops. Remainder to be single riveted.

End Plates: Cross seams to be double riveted.

Manhole in shell 16" x 12" lined
inside with 1 1/2" plate 7" broad

Double end stays of iron 10 1/2"
deep, 1 1/2" thick with 3" steel
supporting bolts 1 1/2" diam
eff area 2.07 sq ft

Stay stays fitted between
nests of tubes on front tube
plate

Percentage of Joint
Plate 83% Rivets 99% Butt Straps 1/8" thick

Shell Plates 29 Tons Tensile

6'-6 3/8" Over Plates

122 Plain tubes 3 1/4" outside diam No 8 BWG, swelled 1/8" at front end.

7 1/2" Stay tubes 5/8" thick in body 1/4" eff thickness. Screwed at
ends to 3/4" and 3/2" diam

Longitudinal Joint Welded

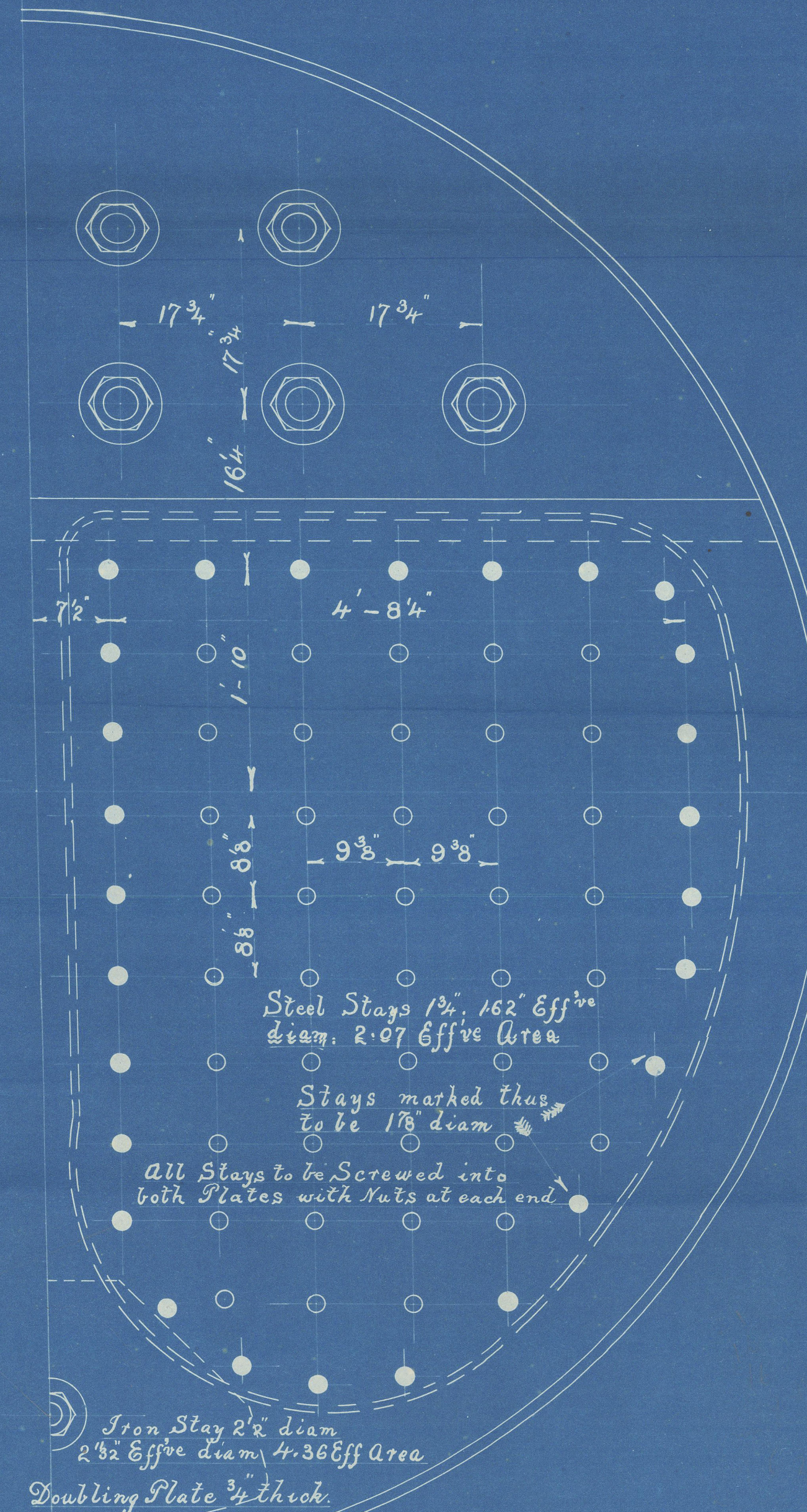
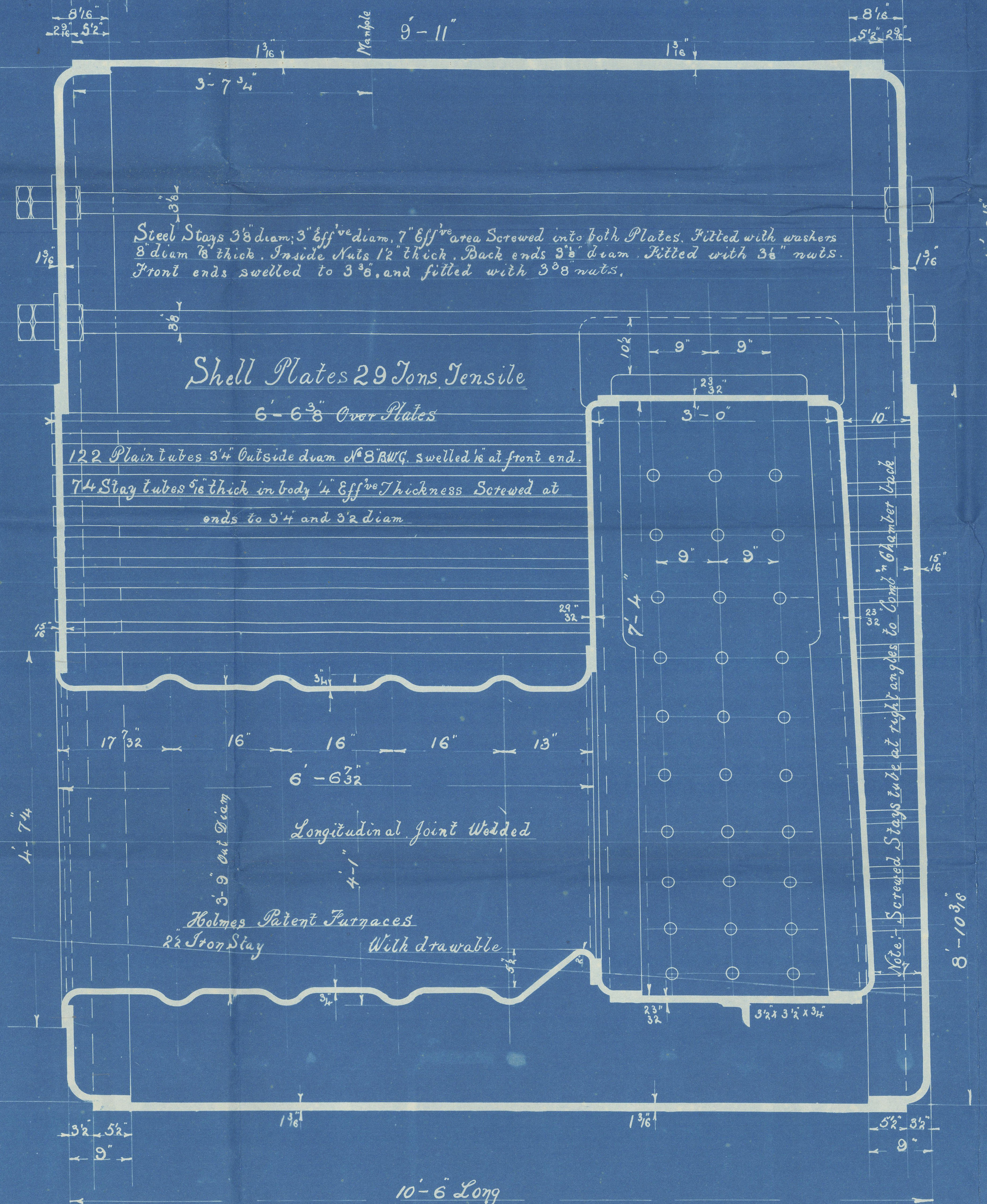
Holmes Patent Furnaces
2 1/2" Iron Stay With drawable

Combustion Chamber.
Steel Stays 1 1/2" diam 1 1/8" eff diam
2.07 eff area. Screwed into both
plates & fitted with nuts at both
ends.

Portion to be bound 2"

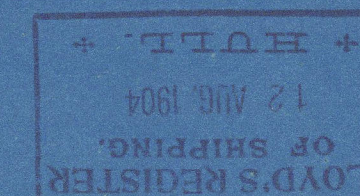
13'-0" Outside Diam 10'-6" Long

200 lbs W.P.



CHARLES D. HOLMES & CO
ENGINEERS & BOILER MAKERS
HULL

STEEL BOILER No 739



Se. H. Drax



Charles D. Holmes & Co.
— 16739 Bln —

for: Cochran & Sons

— $\frac{1}{2}$ No 331 —



200 lbs

Hull Report No. 16548



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