

HEATING SURFACE IN TUBES	2259 SQ. FT.
HEATING SURFACE - COMB. CHAMBERS	213 SQ. FT.
HEATING SURFACE - FURNACES	174 SQ. FT.
HEATING SURFACE - TOTAL	2706 SQ. FT.
GRATE AREA - 9.6" BARS	60.5 SQ. FT.
RATIO - H.S. + G.A.	4.47
WORKING PRESSURE	170 LBS.
HYDROSTATIC PRESSURE (LLOYDS)	380 LBS.
SAFETY VALVE	3 1/2" TWIN

MATERIAL	REQ.	QTY.	QTY.
OPEN HEARTH STEEL	SPRUE PLATES	62720 LBS.	71500 LBS.
OPEN HEARTH STEEL	BUTT STRAPS	58240 LBS.	67000 LBS.
OPEN HEARTH STEEL	FLANGE PLATES	58240 LBS.	67000 LBS.
OPEN HEARTH STEEL	FLARE BOX PLATES	58240 LBS.	67000 LBS.
OPEN HEARTH STEEL	FURNACE	58240 LBS.	67000 LBS.
OPEN HEARTH STEEL	MONITOR SUSPENSION	58240 LBS.	67000 LBS.
OPEN HEARTH STEEL	2 1/2" STAYS	62720 LBS.	71680 LBS.
OPEN HEARTH STEEL	TESTED	62720 LBS.	71680 LBS.
OPEN HEARTH STEEL	TUBES	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	RIVETS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	GIRDERS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	2" AND 2 1/2" STAYS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	AND 1 1/2" SCREW STAYS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	COLD PUNCHED	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	WROUGHT IRON	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	SCREW STAY	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	NUTS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	1 1/2" SCREW STAYS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	BOLTING LUGS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	AND GIRDER CAPS	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	MILL	58240 LBS.	67200 LBS.
OPEN HEARTH STEEL	INSPECTED	58240 LBS.	67200 LBS.

LONGITUDINAL SEAMS

SHELL - 1 1/2" - 1 1/2" BUTTSTRAPS - 1 1/2" - O.S. BUTTSTRAPS - 1 1/2"

RIVETS - 1 1/2" HOLES - 1 1/2"

1 1/2" - 1 1/2" x 100 = 82% STRENGTH OF PLATE.

1 1/2" x 100 = 82% STRENGTH OF RIVET.

82 x 1.406 = 115.3 STRENGTH OF RIVET.

115.3 x 1.406 = 162.0 STRENGTH OF RIVET.

162.0 x 1.406 = 227.2 STRENGTH OF RIVET.

227.2 x 1.406 = 319.4 STRENGTH OF RIVET.

319.4 x 1.406 = 448.6 STRENGTH OF RIVET.

448.6 x 1.406 = 630.8 STRENGTH OF RIVET.

630.8 x 1.406 = 886.0 STRENGTH OF RIVET.

886.0 x 1.406 = 1245.2 STRENGTH OF RIVET.

1245.2 x 1.406 = 1750.4 STRENGTH OF RIVET.

1750.4 x 1.406 = 2460.6 STRENGTH OF RIVET.

2460.6 x 1.406 = 3456.8 STRENGTH OF RIVET.

3456.8 x 1.406 = 4857.0 STRENGTH OF RIVET.

4857.0 x 1.406 = 6817.2 STRENGTH OF RIVET.

6817.2 x 1.406 = 9587.4 STRENGTH OF RIVET.

9587.4 x 1.406 = 13487.6 STRENGTH OF RIVET.

13487.6 x 1.406 = 19187.8 STRENGTH OF RIVET.

19187.8 x 1.406 = 27088.0 STRENGTH OF RIVET.

27088.0 x 1.406 = 38188.2 STRENGTH OF RIVET.

38188.2 x 1.406 = 53688.4 STRENGTH OF RIVET.

53688.4 x 1.406 = 75488.6 STRENGTH OF RIVET.

75488.6 x 1.406 = 106288.8 STRENGTH OF RIVET.

106288.8 x 1.406 = 149489.0 STRENGTH OF RIVET.

149489.0 x 1.406 = 210289.2 STRENGTH OF RIVET.

210289.2 x 1.406 = 295689.4 STRENGTH OF RIVET.

295689.4 x 1.406 = 415489.6 STRENGTH OF RIVET.

415489.6 x 1.406 = 584289.8 STRENGTH OF RIVET.

584289.8 x 1.406 = 821489.0 STRENGTH OF RIVET.

821489.0 x 1.406 = 1154689.2 STRENGTH OF RIVET.

1154689.2 x 1.406 = 1624489.4 STRENGTH OF RIVET.

1624489.4 x 1.406 = 2284289.6 STRENGTH OF RIVET.

2284289.6 x 1.406 = 3224089.8 STRENGTH OF RIVET.

3224089.8 x 1.406 = 4543890.0 STRENGTH OF RIVET.

4543890.0 x 1.406 = 6373690.2 STRENGTH OF RIVET.

6373690.2 x 1.406 = 8943490.4 STRENGTH OF RIVET.

8943490.4 x 1.406 = 12543290.6 STRENGTH OF RIVET.

12543290.6 x 1.406 = 17543090.8 STRENGTH OF RIVET.

17543090.8 x 1.406 = 24642891.0 STRENGTH OF RIVET.

24642891.0 x 1.406 = 34542691.2 STRENGTH OF RIVET.

34542691.2 x 1.406 = 48542491.4 STRENGTH OF RIVET.

48542491.4 x 1.406 = 67942291.6 STRENGTH OF RIVET.

67942291.6 x 1.406 = 95442091.8 STRENGTH OF RIVET.

95442091.8 x 1.406 = 133941892.0 STRENGTH OF RIVET.

133941892.0 x 1.406 = 188441692.2 STRENGTH OF RIVET.

188441692.2 x 1.406 = 265441492.4 STRENGTH OF RIVET.

265441492.4 x 1.406 = 372441292.6 STRENGTH OF RIVET.

372441292.6 x 1.406 = 522441092.8 STRENGTH OF RIVET.

522441092.8 x 1.406 = 734440893.0 STRENGTH OF RIVET.

734440893.0 x 1.406 = 1034440693.2 STRENGTH OF RIVET.

1034440693.2 x 1.406 = 1454440493.4 STRENGTH OF RIVET.

1454440493.4 x 1.406 = 2034440293.6 STRENGTH OF RIVET.

2034440293.6 x 1.406 = 2864440093.8 STRENGTH OF RIVET.

2864440093.8 x 1.406 = 4024439894.0 STRENGTH OF RIVET.

4024439894.0 x 1.406 = 5624439694.2 STRENGTH OF RIVET.

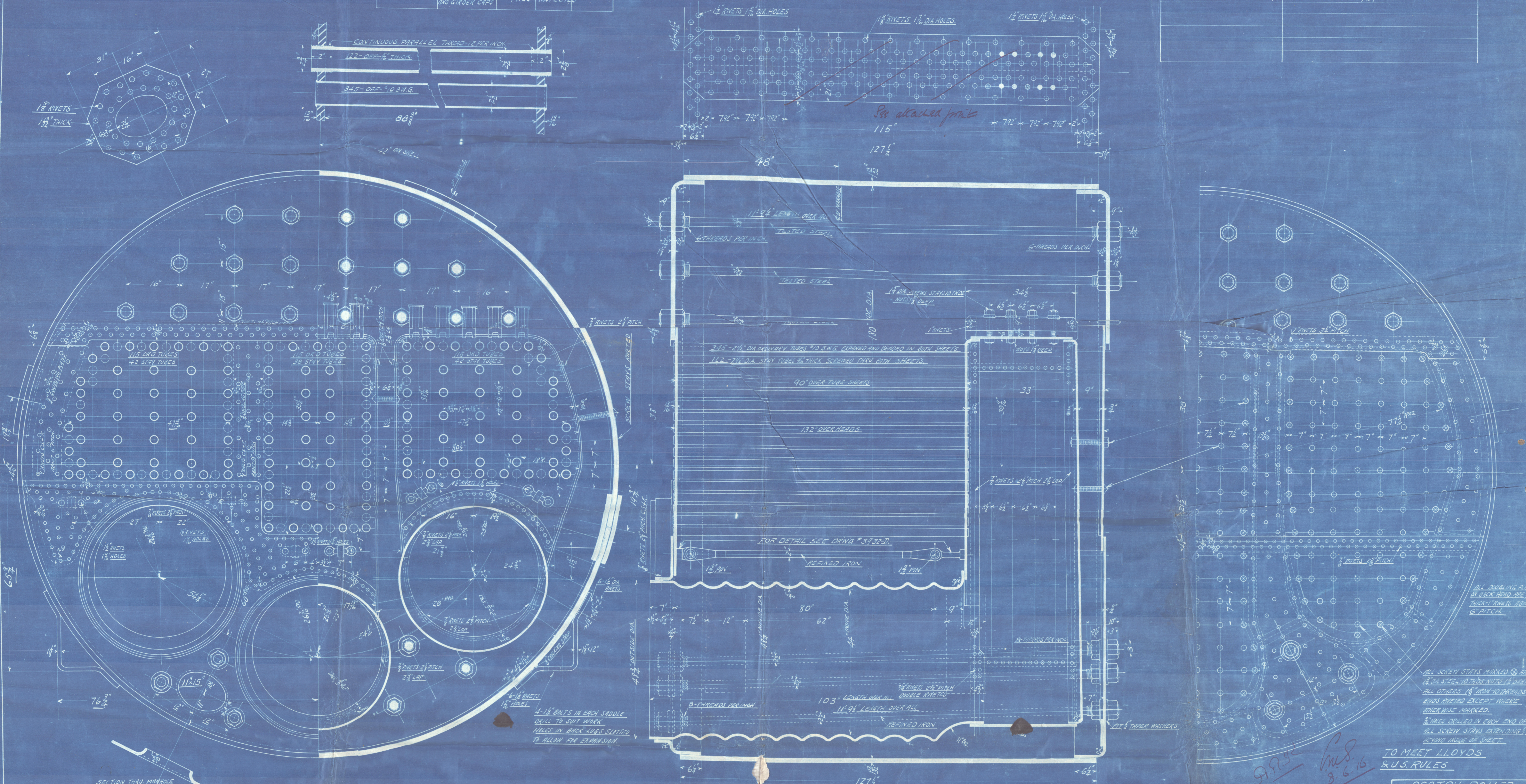
5624439694.2 x 1.406 = 7884439494.4 STRENGTH OF RIVET.

7884439494.4 x 1.406 = 11044439294.6 STRENGTH OF RIVET.

11044439294.6 x 1.406 = 15544439094.8 STRENGTH OF RIVET.

15544439094.8 x 1.406 = 21844438895.0 STRENGTH OF RIVET.

SHELL PLATES.	PRESSURE -	62720 LBS.	= 196 *
HEADS IN STEAMSPACE.	PRESSURE -	1750 LBS.	= 196 *
GIRDERS.	PRESSURE -	975 LBS.	= 230 *
TOP OF COMB. CHAMBERS.	PRESSURE -	487 LBS.	= 210 *
BACK OF COMB. CHAMBERS.	PRESSURE -	243 LBS.	= 228 *
BOTTOM OF COMB. CHAMBERS.	PRESSURE -	121 LBS.	= 225 *
TUBE SHEET.	PRESSURE -	62720 LBS.	= 267 *
MAIN STAYS (3/4" DIA.)	PRESSURE -	975 LBS.	= 209 *
SCREW STAYS (1/2" DIA.)	PRESSURE -	487 LBS.	= 256 *
SCREW STAYS (3/4" DIA.)	PRESSURE -	975 LBS.	= 260 *
STAYS AT TOP OF COMB. CHAMBER.	PRESSURE -	487 LBS.	= 253 *
FURNACES.	PRESSURE -	1750 LBS.	= 211 *
SAFETY VALVE	AREA -	2074 x 255	= 15.3 sq"
SIDE OF COMB. CHAMBERS	PRESSURE -	120 x 255	= 221 *



ALL DOUBLING PLATE IN JACK HEAD SHEET 3" THICK - RIVETS ABOUT 6" PITCH.

ALL SCREW STAYS MARKED @ ARE 1/2" DIA STEEL NO TUBE NUTS 1/2" DEEP ALL OTHERS 1/2" DIA TUBES ENDOS RIVETS EXCEPT WHERE OTHERWISE MARKED.

ALL RIVETS IN EACH END OF ALL SCREW STAYS EXTENDING 3" BEYOND INSIDE OF SHEET.

TO MEET LLOYDS & U.S. RULES

SCOTCH BOILER 15'0" DIA. - 11'0" LONG

		15°0'DIA. - 11°0'LONG	
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Texas Steamship Co. *Sagadahoc*

Platen Island Ship Co.
Boilers.

(Vessels no 3 & 4.
Texas oil.)

24 May /16

Platen Island S.B. Co.
Boilers 299-304.



302 Bl.

MARK ON BOILER

No. 32
LLOYD'S TEST
285-
11/1/16 C.T.H.

Bl. 304

MARK ON BOILER

No. 34
LLOYD'S TEST
286-
28/2/16 O.T.J.

303 Bl.

MARK ON BOILER

No. 33
LLOYD'S TEST
286-
11/1/16 C.T.H.

Bl. 299-300 & 301.

MARK ON BOILER

No. 36-
LLOYD'S TEST
286-
28/2/16 O.T.J.

S.S. SAGADAHOC

W118-0034



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