

26/1/26

ALL PLATES, LONGIT^L STAYS & RIVETS OF
SIEMENS MARTIN MILD STEEL.
ALL SCREW STAYS OF TESTED IRON.
ALL RIVET HOLES TO BE DRILLED AFTER PLATES
ARE BENT & FITTED TOGETHER, THEN PLATES TAKEN
APART & BURRS REMOVED.
RIVETING TO BE DONE BY HYDRAULIC PRESSURE
WHERE PRACTICABLE.

STRENGTH OF MATERIAL.		
PART	TENSILE STRENGTH.	
SHELL PLATES.	28 TO 32 TONS.	STEEL
BUTT STRAPS.	28 TO 32 "	"
MANHOLE COMPENSATING.	26 TO 30 "	"
FURNACES.	26 TO 30 "	"
GIRDERS.	28 TO 32 "	"
BOILER END PLATES.	26 TO 30 "	"
COMB. CHAMBER PLATES.	26 TO 30 "	"
LONGIT ^L STAYS.	28 TO 32 "	"
SCREW "	NOT LESS THAN 21½ TONS.	IRON

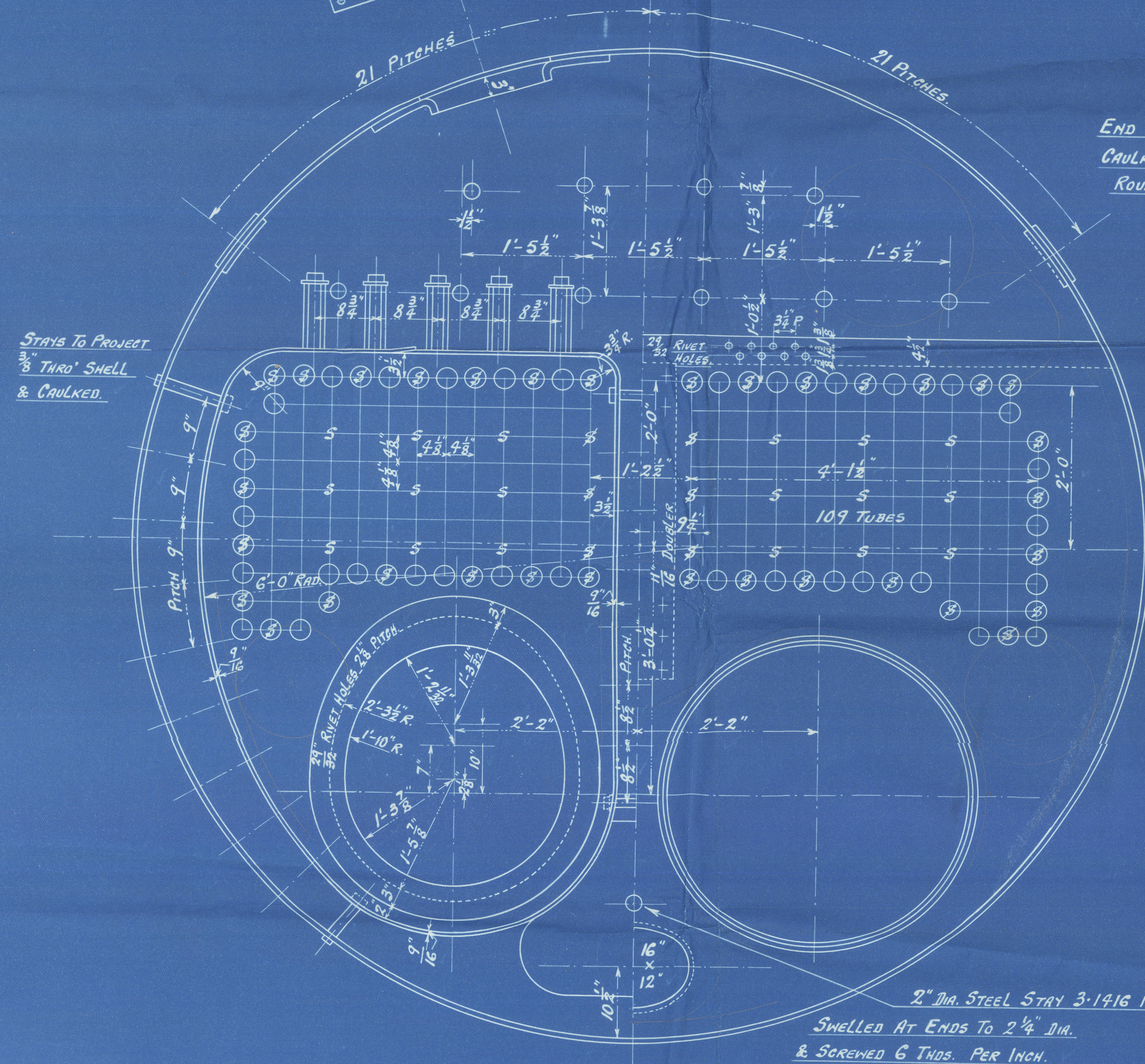
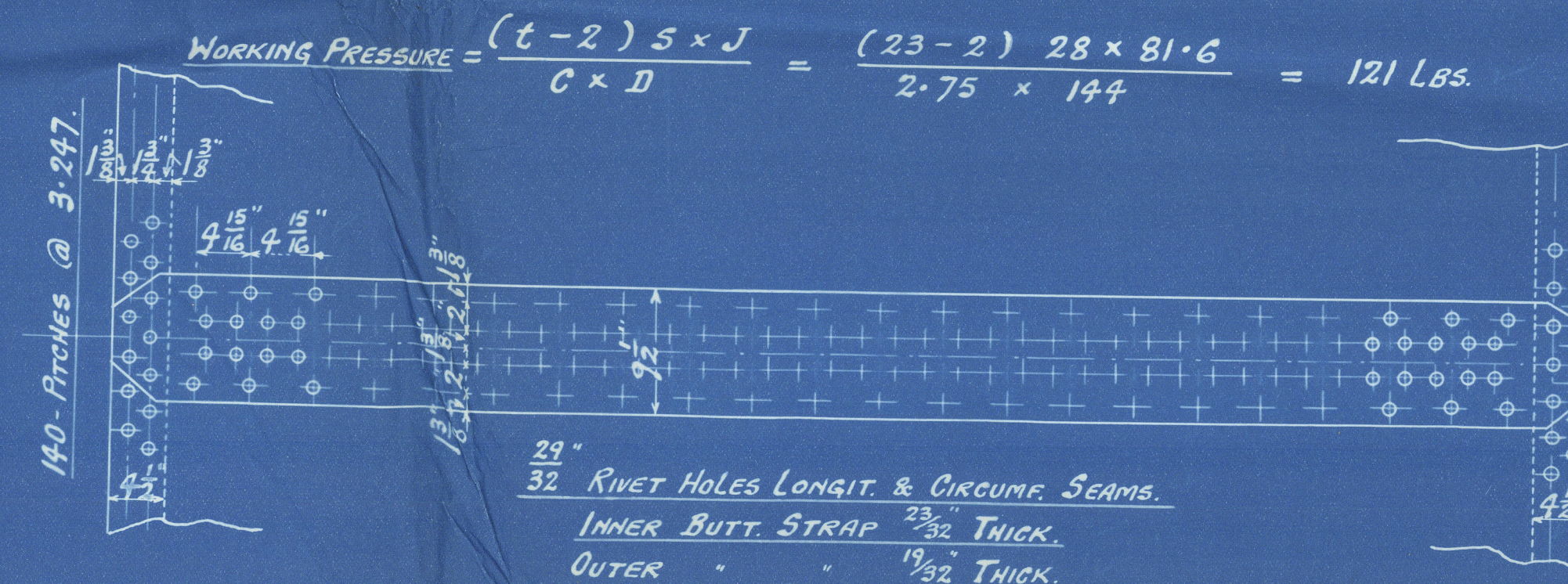
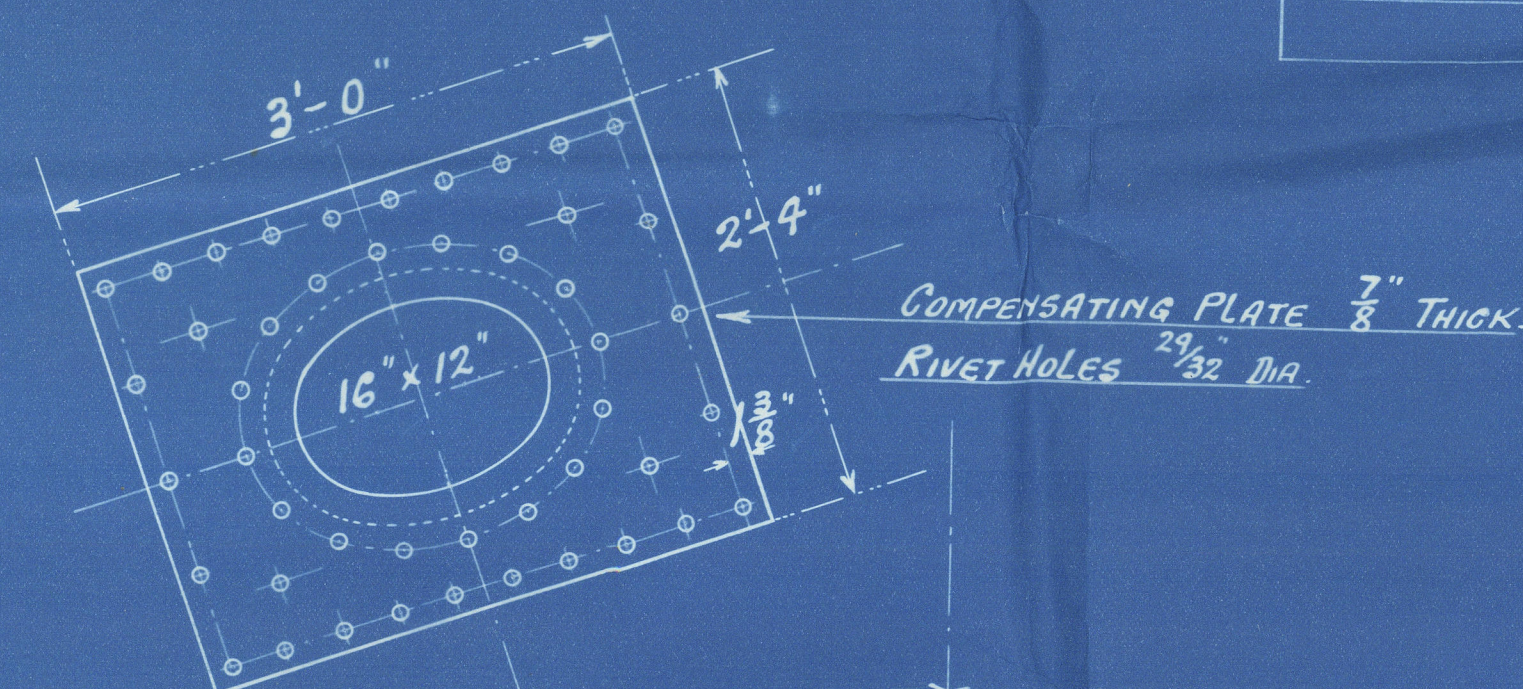
LONGITUDINAL SEAMS.

$$100 \frac{(p-d)}{p} = \frac{100(4.9375 - .906)}{4.9375} = 81.6\%$$

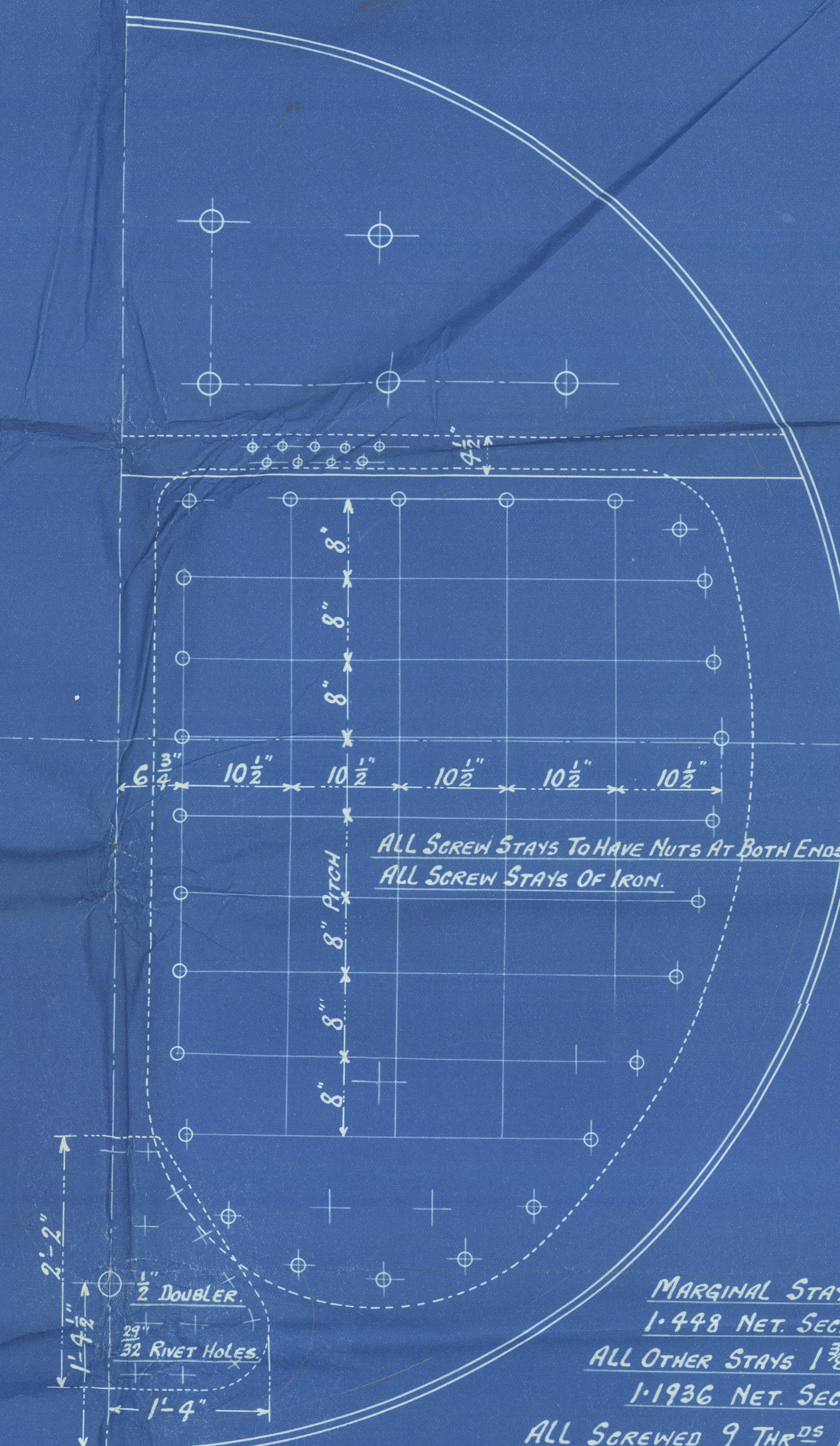
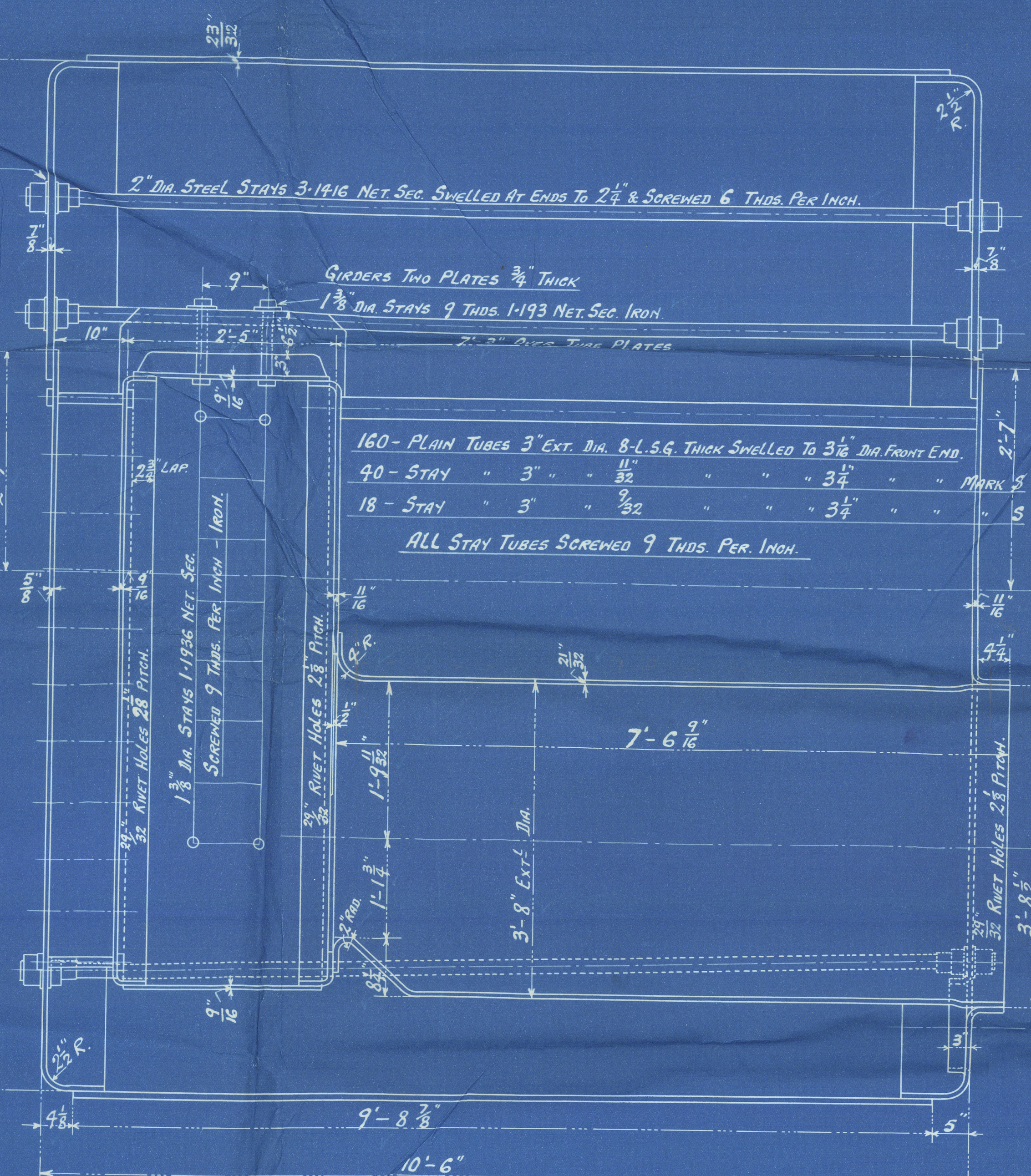
$$100 \frac{(S_2 \times Q \times n \times C)}{S_1 \times p \times t} = \frac{100(23 \times .645 \times 3 \times 1.875)}{28 \times 4.9375 \times .71875} = 84.0\%$$

$$\text{WORKING PRESSURE} = \frac{(t-2) S \times J}{C \times D} = \frac{(23-2) 28 \times 81.6}{2.75 \times 144} = 121 \text{ LBS.}$$

218- TUBES 3" EXT ^L DIA ^S x 7'-3" LONG	=	1290 sq ^T
FURNACES.	=	85
TOPS & SIDES OF COMB. CHAMBER.	=	75
COMB. CHAMBER BACKS.	=	48
BACK TUBE PLATE.	=	29
TOTAL		1477 Sq. Ft.
GRATE AREA WITH 5'-0" FIREBARS	=	35½ Sq. Ft.
WORKING PRESSURE	120 LBS. PER SQ. INCH.	
TEST	230 " " " "	
TO PASS LLOYD'S SURVEY.		



END PLATES TO BE
CAULKED OUTSIDE
ROUND STAYS.



SCOTT'S
ENGINEERING & CONSTRUCTION CO. LTD.
GREENGLASS
BRISTOL
21 JAN 1926

MARGINAL STAYS 1½" DIA.
1-448 NET SEC.
ALL OTHER STAYS 1 3/8" DIA.
1-1936 NET SEC.
ALL SCREWED 9 THRS PER INCH.

ONE OFF PER ENG. N^o
COST MARK - D. B.

ENC N^o 600 & 601.
AUXILIARY BOILER.
SCALE 1" = 1 FOOT.
DRAWING N^o 12005.
TUBE N^o

Donkey Boiler

Scotch S.B.E. 108/1

S/S. 1528/1529.

W.P. 120 lbs

600.

S.S. "DALBLAIR"



Gak. Report N° 18601.

S.S. "Dalcairn"

Gak. Report N° 18602

RETAIN

RETAIN

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