

PALLION ENGINE WORKS BOILER STANDARD VESSEL F & F1 TYPE

SCALE INCH = 1 FOOT

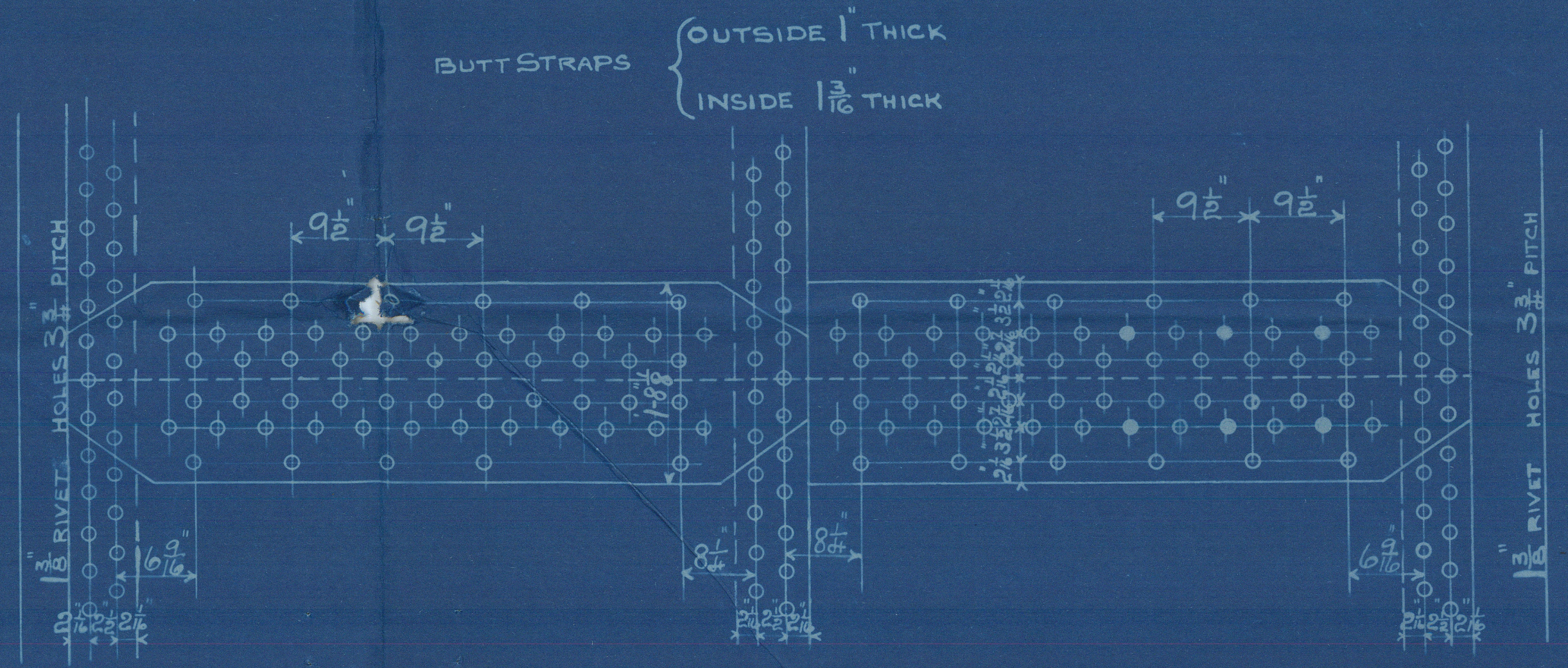
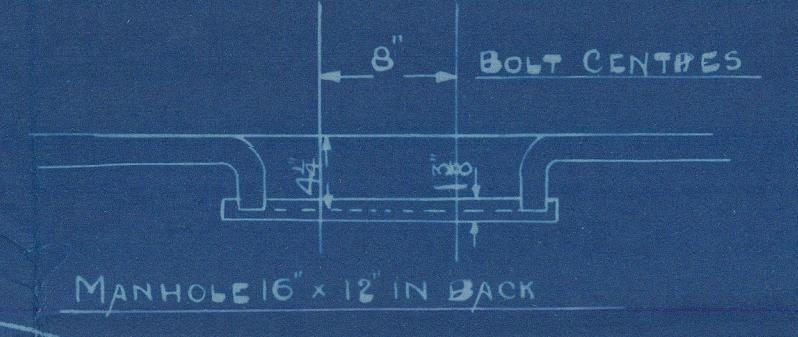
TRACING 8049

LLOYD'S SURVEY

DESCRIPTION	MINIMUM TENSILE STRENGTH
SHELL PLATES	28 3/4 TONS
FRONT TOP	26
" BOTTOM	"
BACK TOP	"
" BOTTOM	"
" T.P. CENTRE	"
" " WINGS	"
CEWRAPPERS CENTRE	"
" " WINGS	"
" BACKS CENTRE	"
" " WINGS	"
GIRDERS	28
SHELL BUTT STRAPS (OUT)	28 3/4
" (INS)	"
MANHOLE COVERS	26
STEAM SPACE WASHERS	26
FURNACES	"
STEAM SPACE STAYS	28
SCREWED	26
RIVETS	27

% STRENGTH OF PLATE = 85.5
% " " RIVETS = 88.6
LLOYD'S = 22.58 (21.2) 85.5 = 191 WBS
192

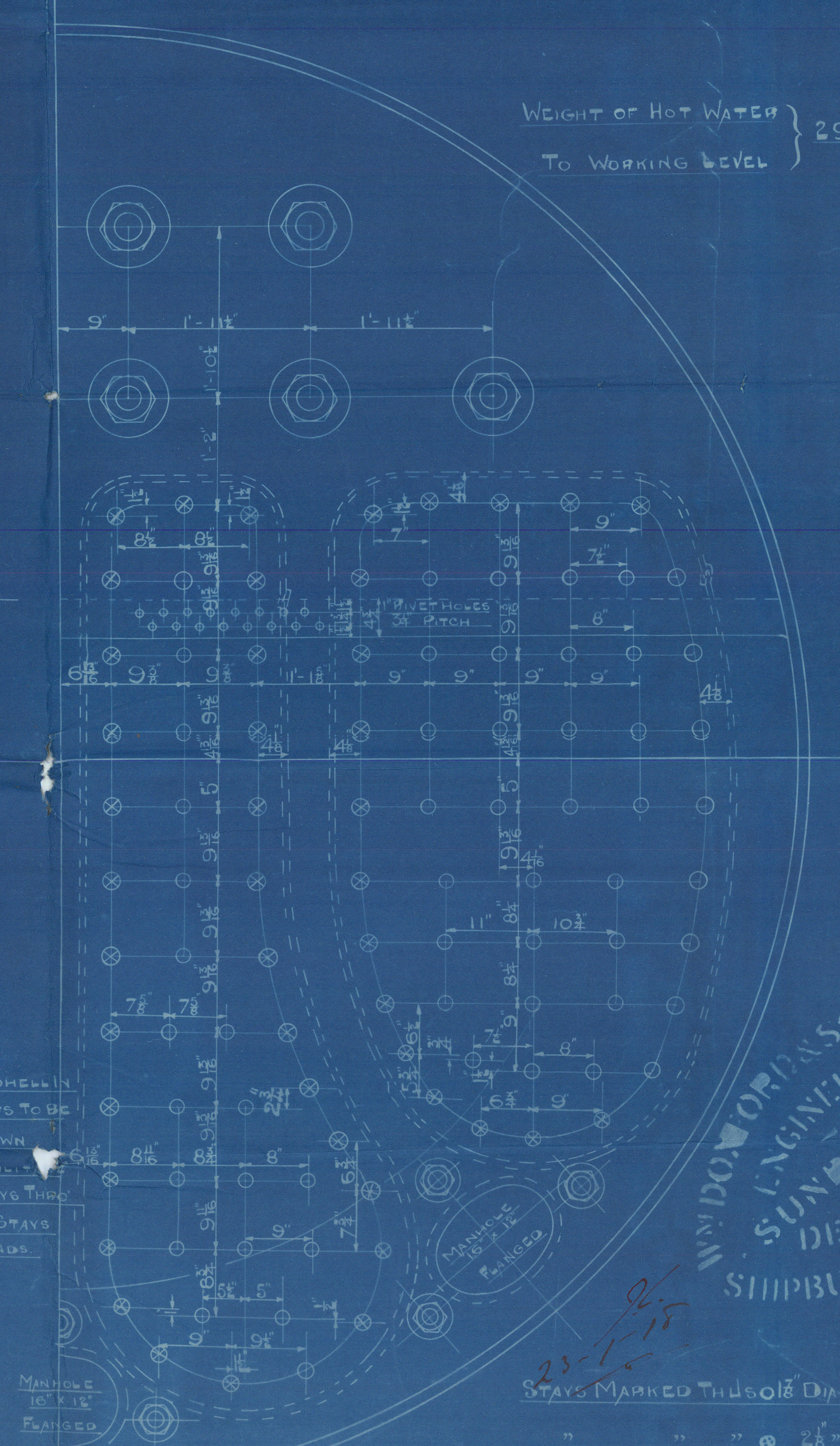
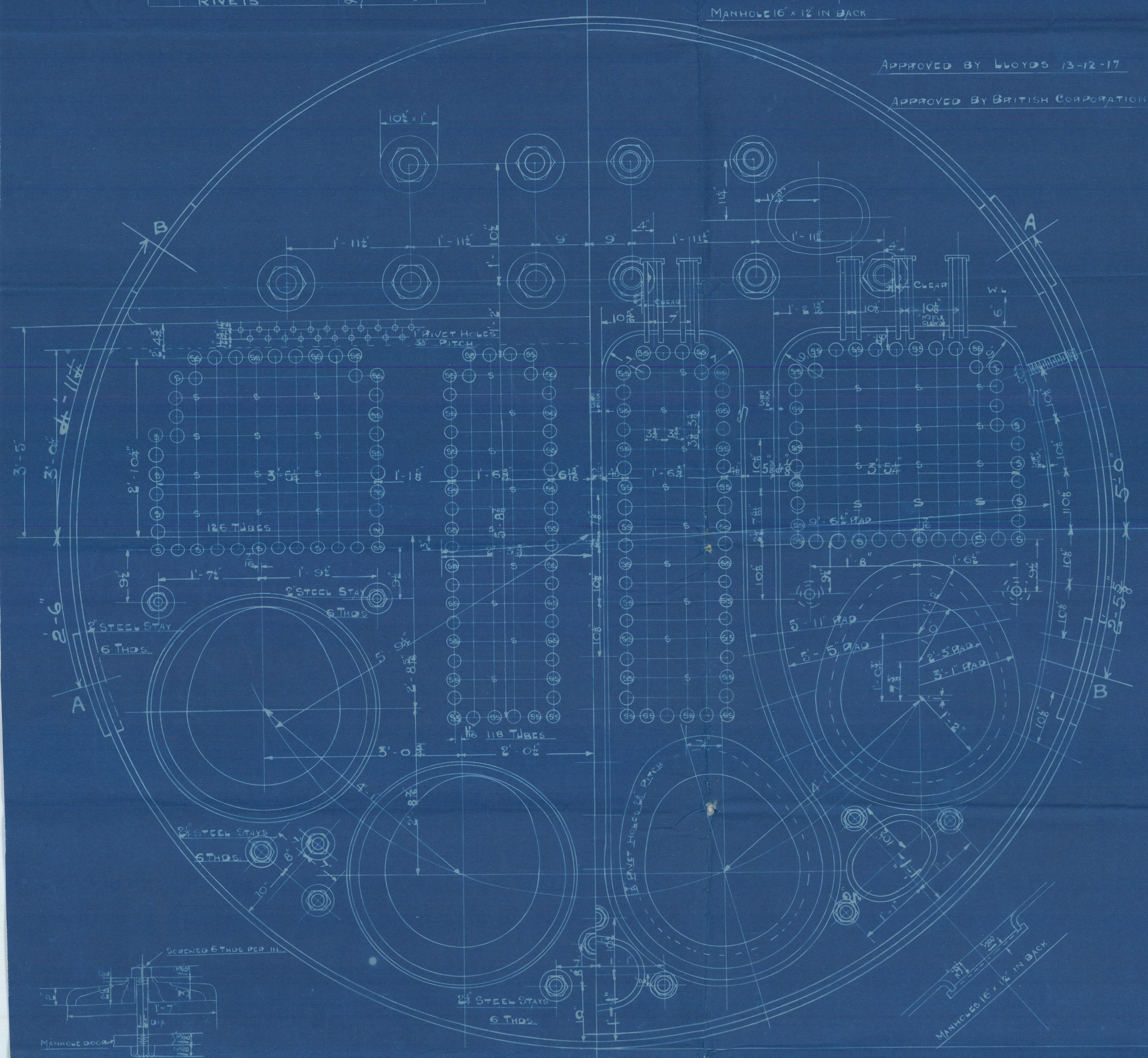
% STRENGTH OF PLATE = 85.5
% " " RIVETS = 89.6
BRITISH CORP = 20.4 (21.1) 85.5 x 28.75 = 186 WBS
192 x 28



HEATING SURFACE ON TUBES BETWEEN TUBE PLATES = 2634 sq ft
" ELSEWHERE EXCLUDING F.T. PLATE = 541 sq ft
TOTAL = 3175 sq ft

STEAM SPACE = 519 cu ft
WORKING PRESSURE 180 LBS D
TEST " 360 "

NOTE: ALL PLATES STAYS &c TO BE OF STEEL SMOKE TUBES OF IRON
TENSILE STRENGTH OF SHELL PLATING TO BE FROM 28 3/4 TO 33 TONS
ALL HOLES DRILLED IN PLACE AFTER PLATES ARE BENT



WEIGHT OF HOT WATER
TO WORKING LEVEL } 29 TONS

STAYS NEXT TO SHELL
WING COMB CHRS TO BE
IN POSITION SHOWN
DOTTED TO FACILITATE
FITTING OF STAYS THRO
BUTT STRAPS, STAYS
1 1/2 DIA 9 THREADS

STAYS MARKED THUS 10 1/2 DIA (9 THREADS)
" " " 10 1/2 " (9 ")
ALL OTHERS 1 1/2 DIA (9 ")

ALL STAYS SCREWED INTO PLATE & FITTED
WITH NUTS

3 THRS FOR EACH CONTRACT

CONTRACT NO. 533

W. D. & SONS LTD
ENGINEERING
SUNDERLAND
SHIPBUILDING ENGINEERS

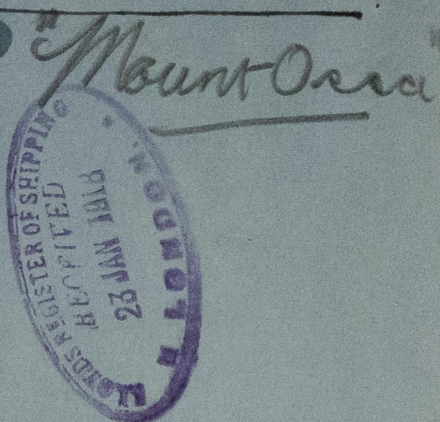
SUNDERLAND

W. DOXFORD & SONS L^d

3) BOILERS N^o 533

W.P. = 180 LBS

"F" TYPE



No. 3524
LLOYD'S TEST
360 lbs.
G.A.H. 16.1.19

*Port
Boiler*

No. 3526
LLOYD'S TEST
360 lbs.
G.A.H. 22.1.19

*Starb.
Boiler*

No. 3531
LLOYD'S TEST
360 lbs.
L.P.D. 31.1.19

*Unter
Boiler*

War Retyl

RETAIN

SUNDERLAND RPT. No. 27484

W1353-0101

Lloyd's Register Foundation