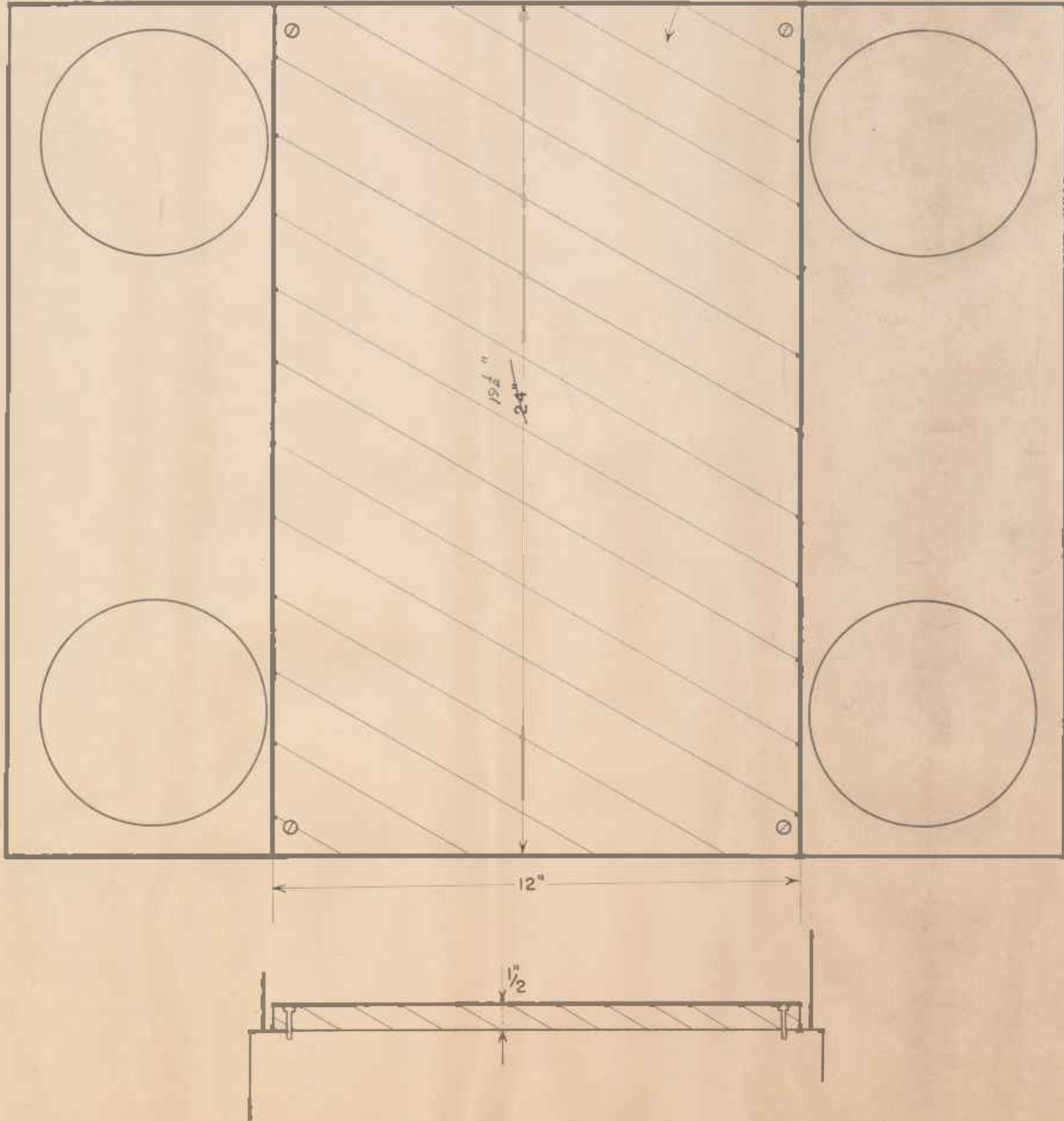
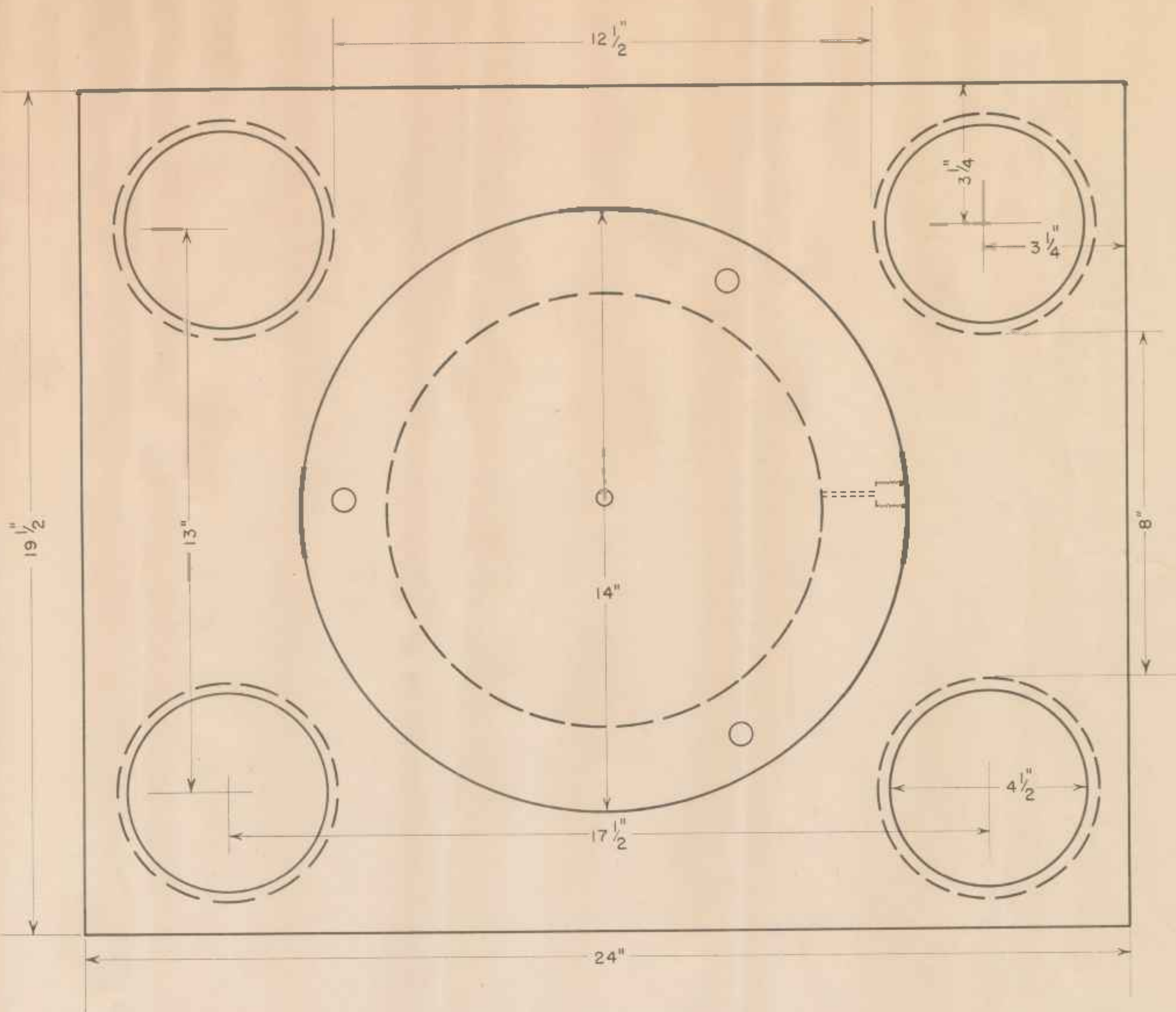


Tool steel plate Rc 48-50 grind surfaces to parallelism



TOP PLATE OF PRESS

$1'' = \frac{1}{2}''$



CARNEGIE INSTITUTION OF WASHINGTON

Geophysical Laboratory

2801 UPTON STREET, WASHINGTON 8, D. C.

Thursday

April 3, 1958

Dear Tracy,

These are the drawings to our press. It is designed to operate with the ram coming down so that we have a working bed at a permanent level. The pressure inlet which opens onto a shoulder on the piston is for retracting the piston. The tie rods are made out of Rychrome; all other parts are E4340. The cylinder is Rockwell C 40 + will operate at 20,000 p.s.i. with a substantial safety factor. I feel there is an error in design in using only three bolts to tie the cylinder to the top plate; friction on the O-ring at the base of the piston tends to make the cylinder climb out of the plate. We compensated for this by hardening the three bolts to Rc 40 and

enlarging the o-ring on the cylinder end plate.
The press is now set up + will be tested
shortly.

Hope everything is going well with you -

as ever,

Joe Boyd