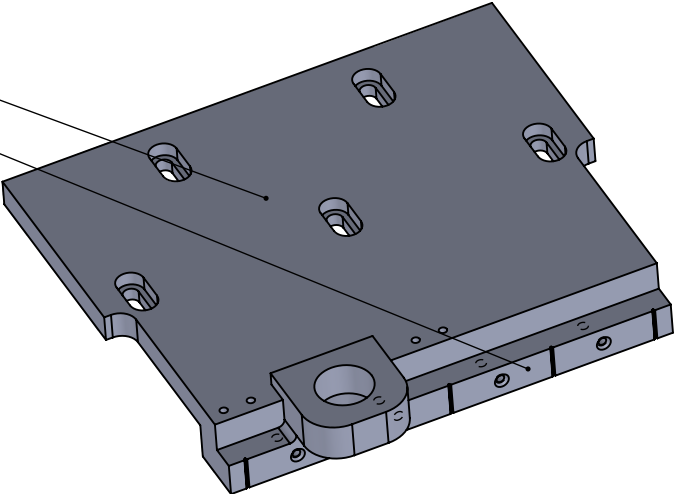
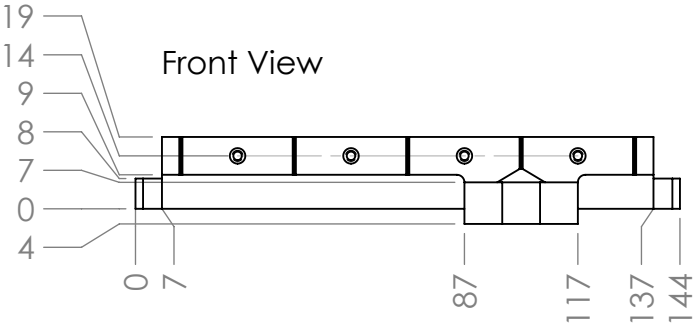


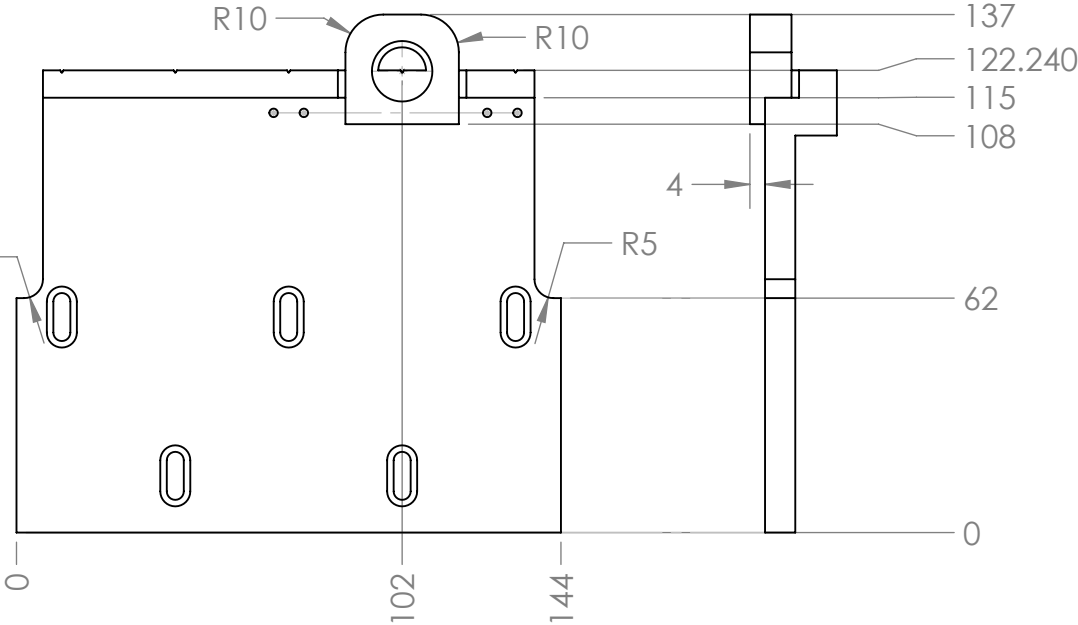
This is the "bottom" side

This is the "front" side

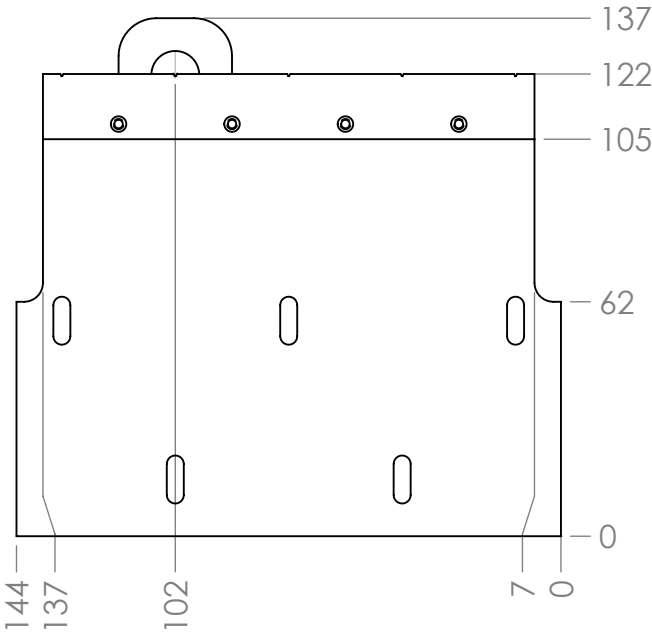
Front View



Bottom View

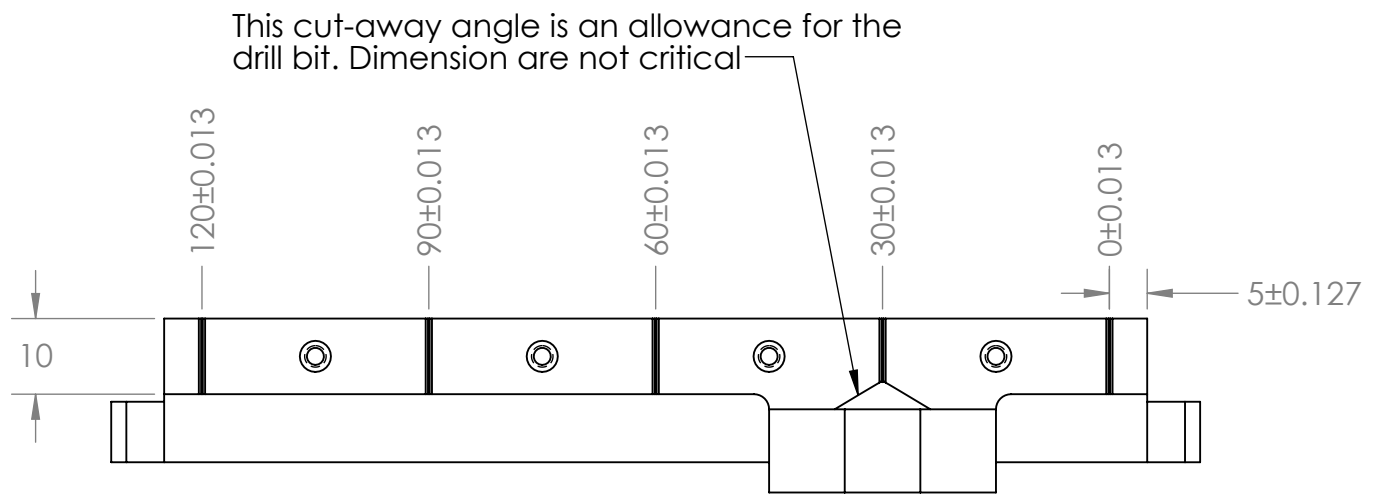


Top View



Note:
Fillet radii denote maximum
radius; smaller is fine.

Author	Franklin Fuller
Part Name	ExcPlatFiberClamp
Units	mm
Precision	+/- 0.005 inches (0.127 mm), unless noted otherwise
Material	Aluminum
Qty	1
Sheet Name	External Dims (1/4)
# Sheets	4

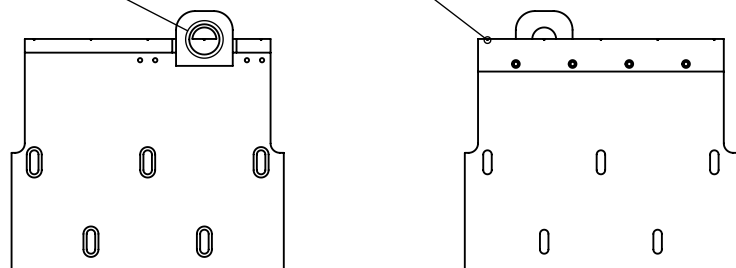
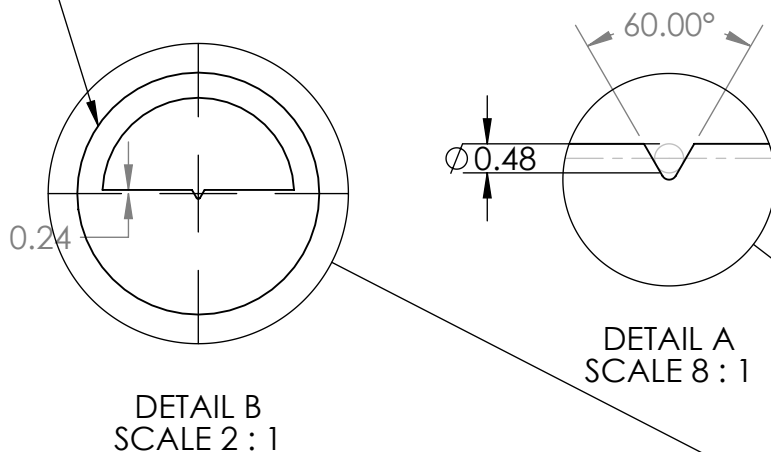


The centers of the v-grooves define a high precision (5/10000 ") alignment grid where the relative spacing between grooves is critical. The origin of the grid can have a more relaxed precision, however.

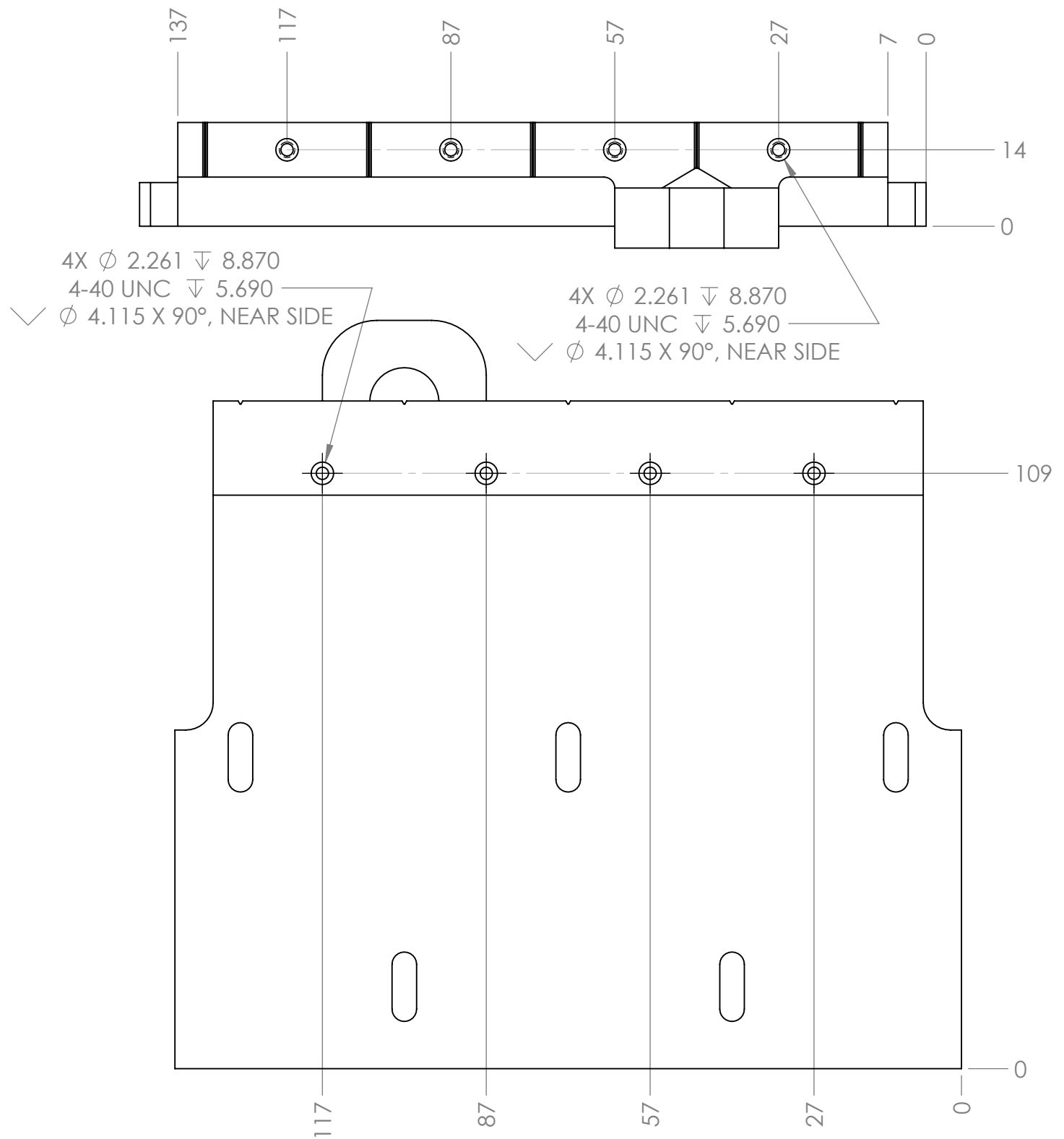
For the v-groove above the 16 mm dowel hole, the groove is positioned so that the center of the fiber is concentric to the dowel hole. Thus, the plane in which the groove is inscribed is 0.24mm displaced from the center of the dowel hole

V-groove detail: depth of groove depends on the angle of the cut (shown here with a 60 degree angle). Depth is: $R + R/\sin(T/2)$, where $R = 0.240$ mm, T = angle of the V-groove cutting tool (here 60 deg). The angle is not critical, only the depth.

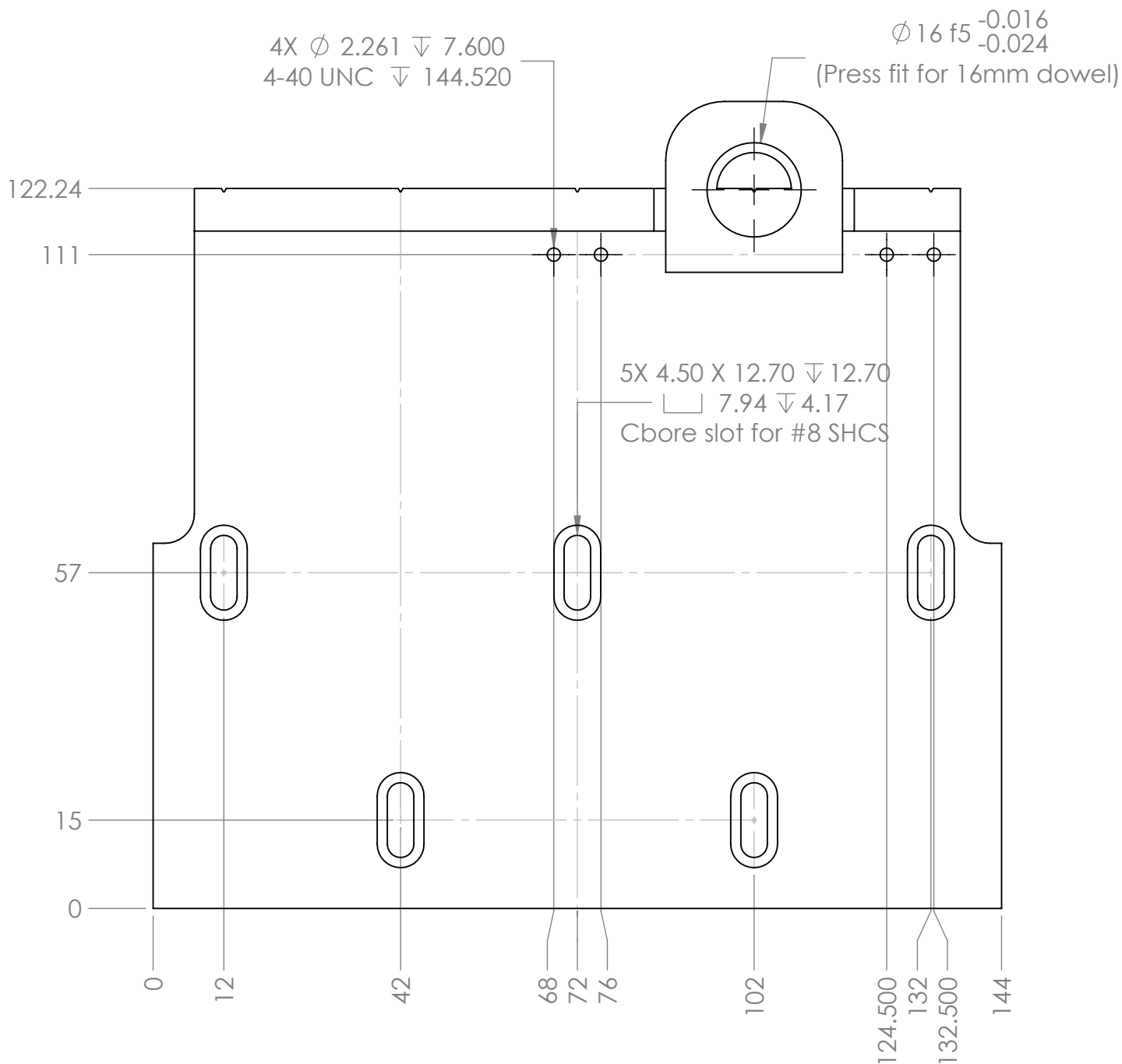
The final result can be tested by placing a 0.480 ± 0.02 mm dowel in the groove and testing with a dial indicator that it lies within 1/1000 inch of the surface in which the groove was inscribed.



Author	Franklin Fuller
Part Name	ExcPlatFiberClamp
Units	mm
Precision	+/- 0.005 inches (0.127 mm), unless noted otherwise
Material	Aluminum
Qty	1
Sheet Name	V-Groove Details (2/4)
# Sheets	4



Author	Franklin Fuller
Part Name	ExcPlatFiberClamp
Units	mm
Precision	+/- 0.005 inches (0.127 mm), unless noted otherwise
Material	Aluminum
Qty	1
Sheet Name	Holes Detail Top & Front (3/4)
# Sheets	4



Author	Franklin Fuller
Part Name	ExcPlatFiberClamp
Units	mm
Precision	+/- 0.005 inches (0.127 mm), unless noted otherwise
Material	Aluminum
Qty	1
Sheet Name	Holes Detail Bottom (4/4)
# Sheets	4