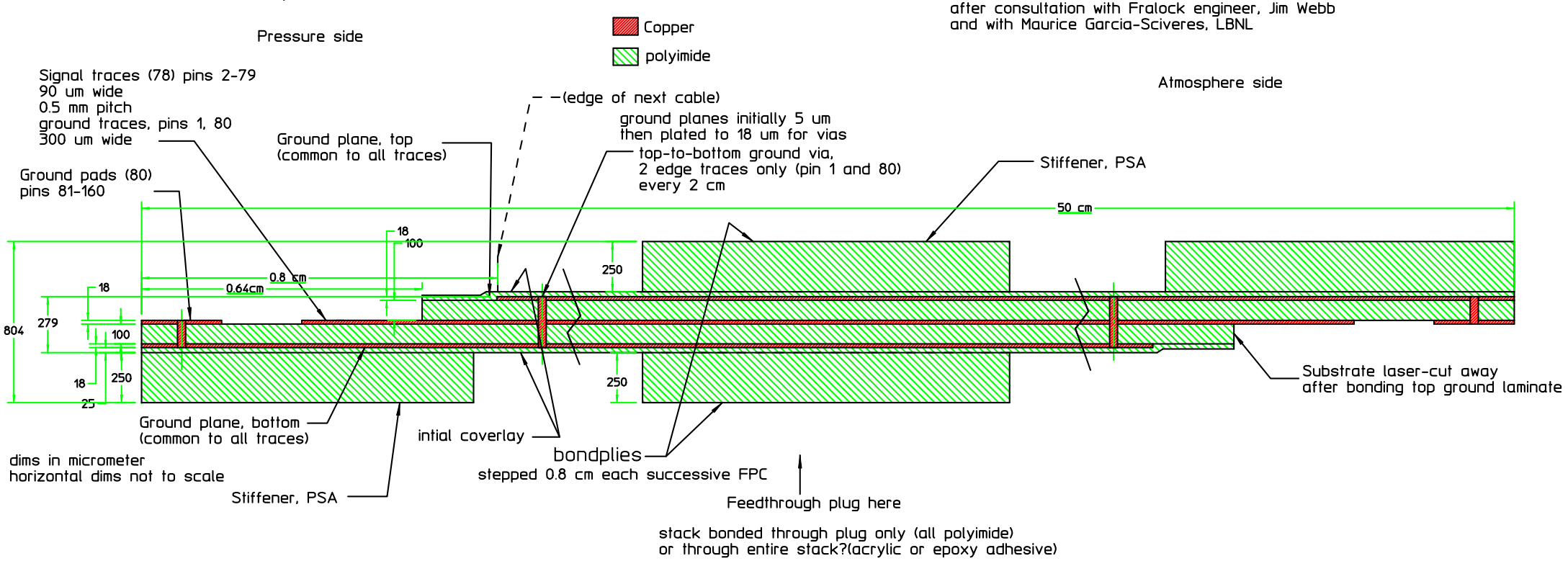
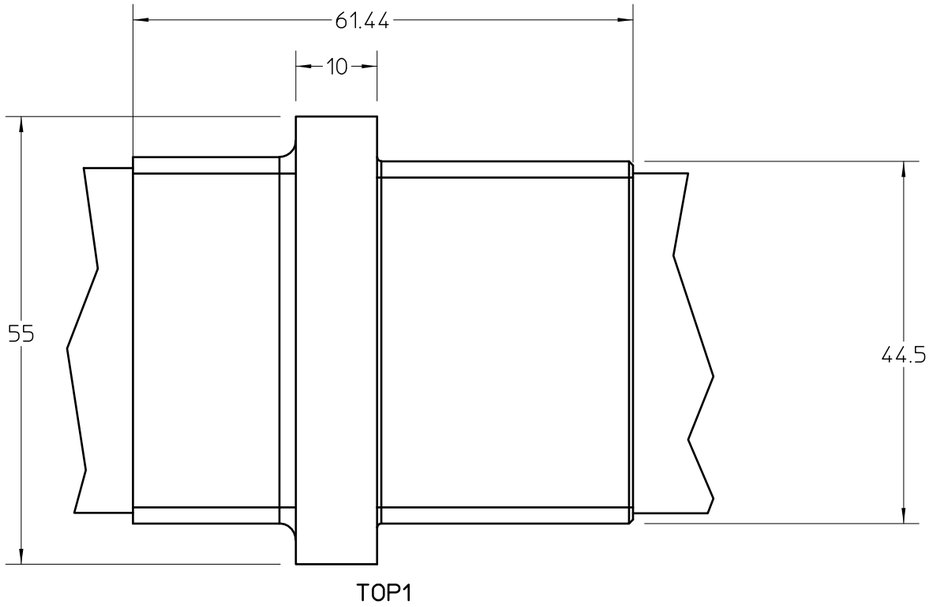
LBNL Feedthrough Stripline FPC Design Proposal

feedthrough will consist of 42 of these FPCs
laminated with polyimide bondply ("adhesiveless")

Panasonic P5KS 160 pin
board-to-board connectors, each end

D. Shuman 9/17/2012
after consultation with Fralock engineer, Jim Webb
and with Maurice Garcia-Sciveres, LBNL





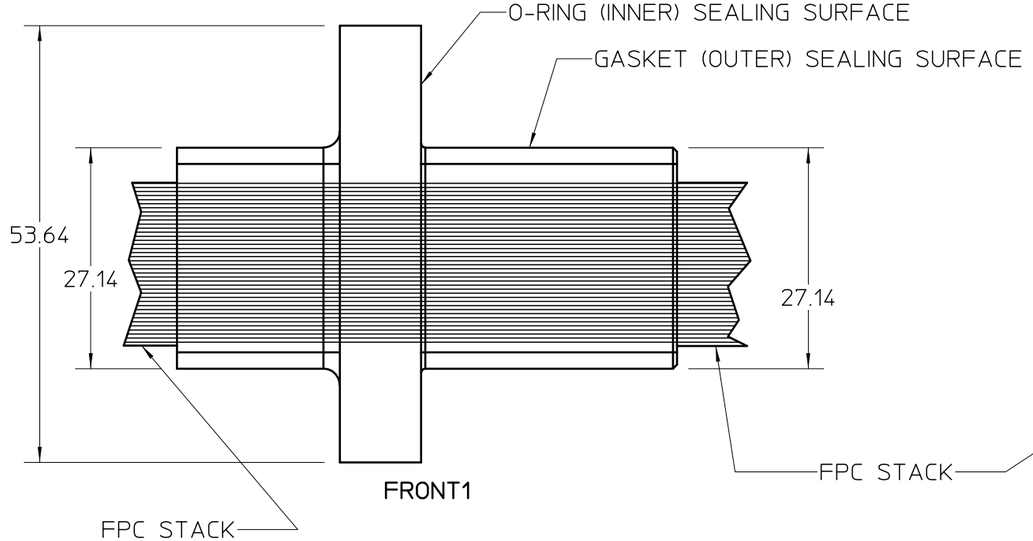
TOP1

ESTIMATED PLUG DIMENSIONS.
FPC STACK SHOWN HERE IS SKETCHED, NOT TO SCALE
TOP VIEW DIMENSIONS TO BE FORMED
FROM EXTRA SIDE MATERIAL ON FPC
WHICH IS THEN MACHINED AWAY

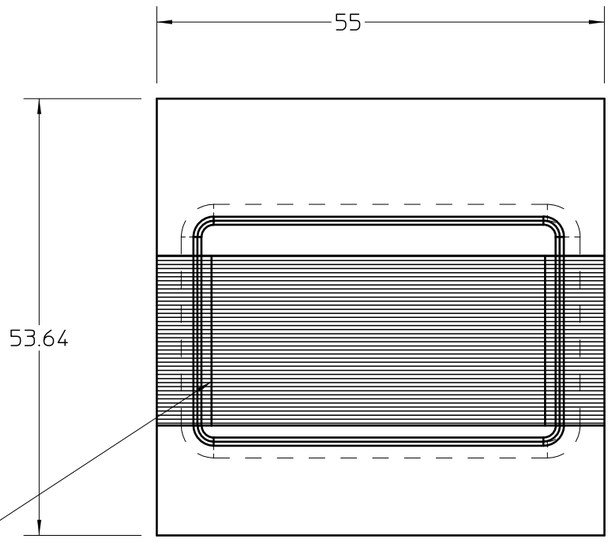
FRONT VIEW DIMENSIONS TO BE FORMED BY ADDING
CIRLEX PLATES TOP AND BOTTOM OF FPC STACK

FPC STACK MAY BE FUSED SOLID ONLY IN PLUG REGION
SHOWN HERE, OR PREFERABLY, ALL ALONG EACH FPC

DIMS IN MM



FRONT1



RIGHT1

VER	AUTHOR	APPROVER	DATE	CHANGE DESCRIPTION
A	dbshuman			INITIAL VERSION (NO REVISION)

SHOWN ON:

UNLESS OTHERWISE SPECIFIED
TOLERANCES: .X± .05 .XX± .01 .XXX± .005
FRACTIONS: ± 1/64
ANGLES: ± 0.2°
MACH. SURFS.: 125 ✓ OR BETTER
REF: ASME Y14.5M-1994, THREADS ARE CLASS 2
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE

MAT 2: , NOTES:
MAT 1: , NOTES:

PROJECT NAME:
PROJECT NUMBER:

DO NOT SCALE PRINT
SCALE: 2 : 1
CATEGORY CODE: RP3141
THIRD ANGLE PROJECTION

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA
BERKELEY LAB

NEXT-100 XENON TIME PROJECTION CHAMBER
PRESSURE VESSEL - VESSEL
BLOCK INNER

SHEET 1 OF 1 | SIZE: C | DWG NO: | VER A