BEAM TUBE AND MOUNTING ASSEMBLY

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TWIST Beam Tube Extension

Status of the *TWIST* beam tube extension:

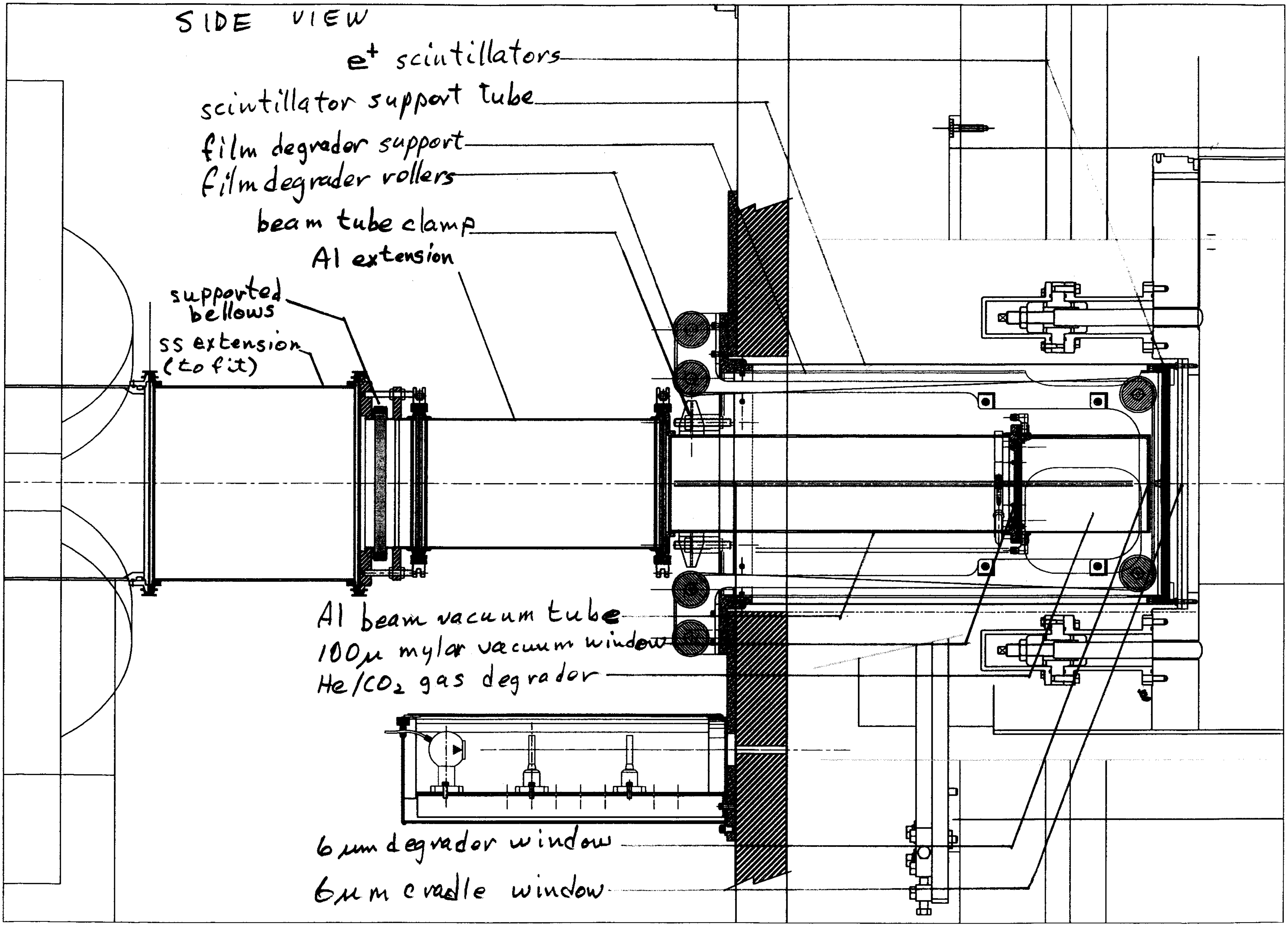
- design is completed.
- some drawings have been sent for manufacture.

Recent modifications to the design include:

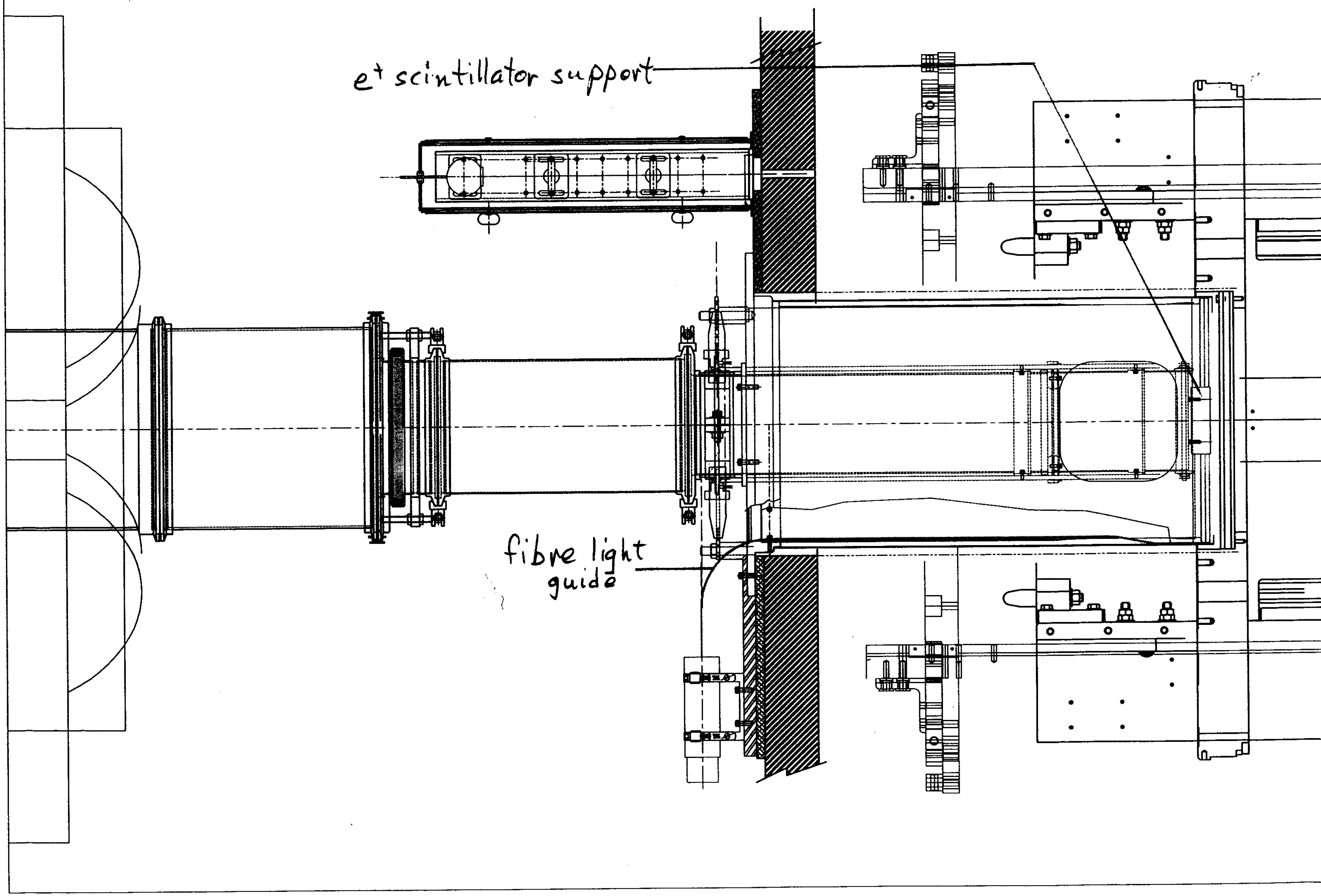
- reduction of positron trigger scintillator diameter, to allow ± 5 mm adjustment in x and y.
- lengthening of beam tube to reduce air gap to 55 mm.
- allow small adjustment of z position of scintillators and beam tube.

Details of the geometry are now being included in the GEANT geometry definition.

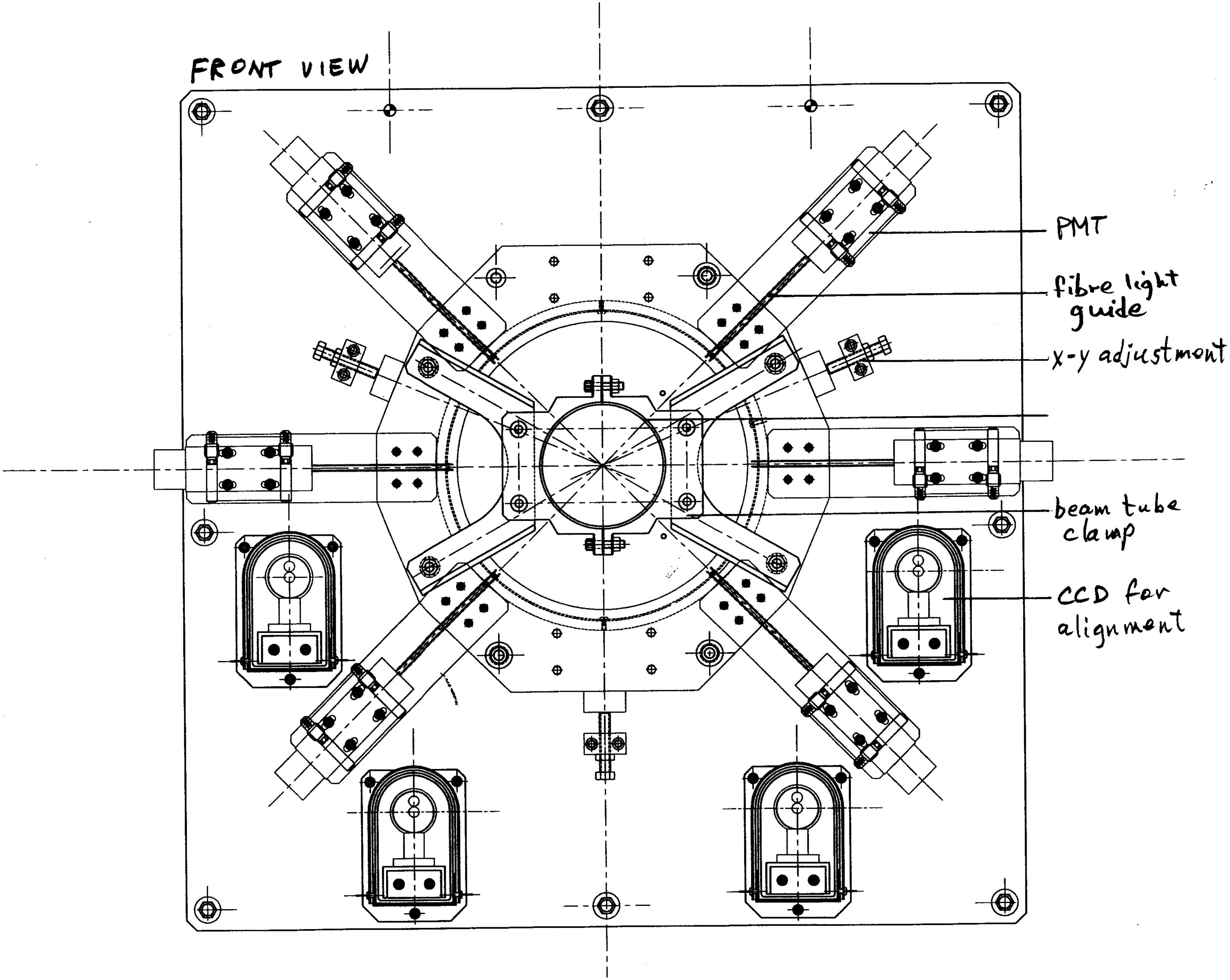
The next three pages show side, top, and front views of the beam tube, scintillator support, and film degrader assemblies. The following two pages show the scintillator support installed in the yoke, and the final section of the beam tube with windows, respectively.


SIDE VIEW
e^+ scintillators
scintillator support tube
film degrader support
film degrader rollers
beam tube clamp
Al extension
supported bellows
SS extension (to fit)
Al beam vacuum tube
100μ mylar vacuum window
He/CO_2 gas degrader
6 μm degrader window
6 μm cradle window

TOP VIEW

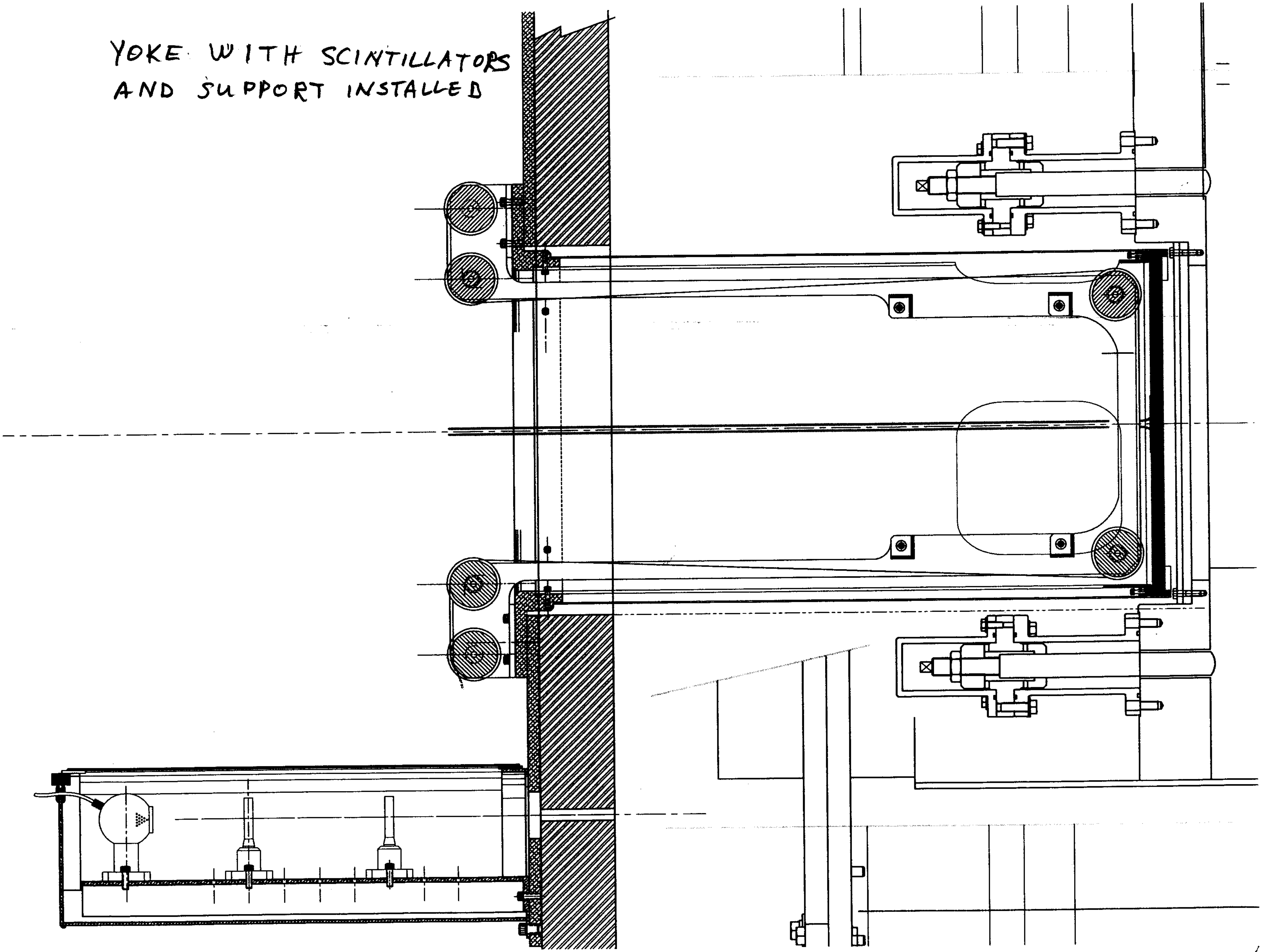


FRONT VIEW



PMT
fibre light guide
x-y adjustment
beam tube clamp
CCD for alignment

YOKE WITH SCINTILLATORS
AND SUPPORT INSTALLED



AL BEAM VACUUM TUBE, WINDOWS
AND HE/CO_2 DEGRADER