

Run #2 Hi vac data

diffusion pump run for 6 min
 diffusion pump then turned
 on; ran for 1 hour
 max vacuum: $2.5 E^{-4}$ Torr

Run #3 High vac data

diff pump run for 10 min
 max vacuum $3 E^{-4}$ Torr

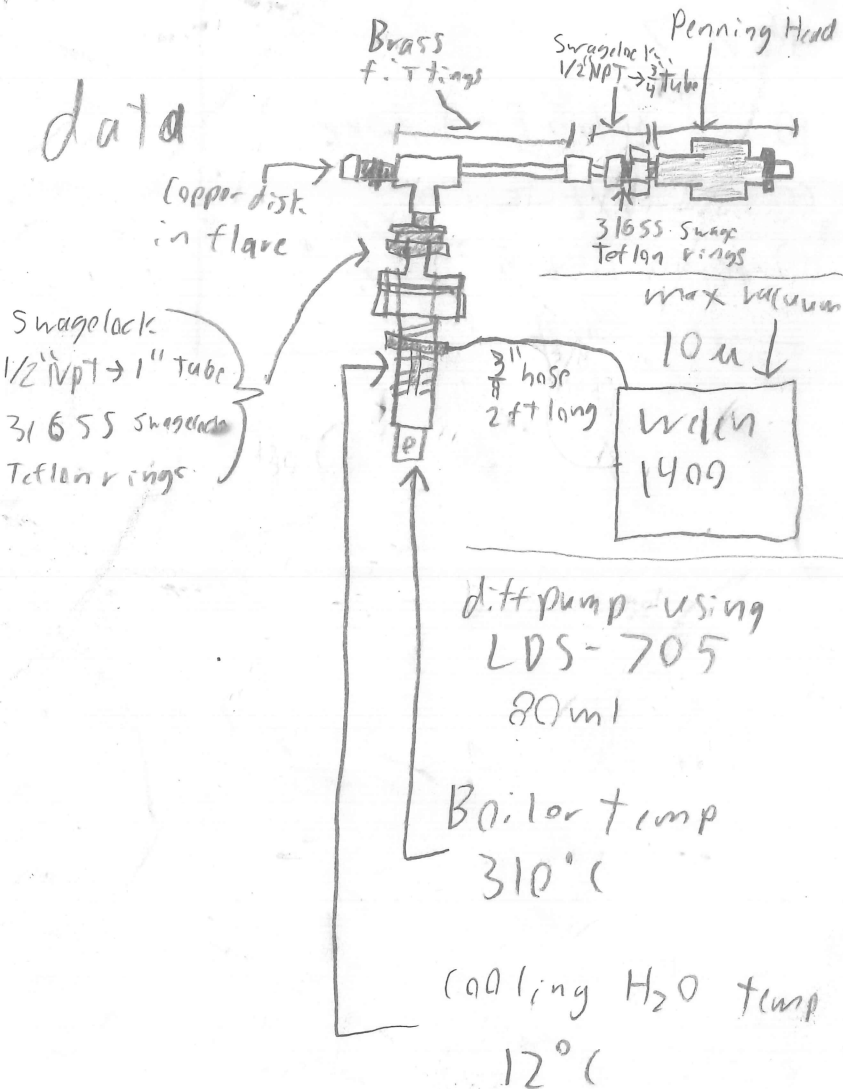
Run #4 High vac data

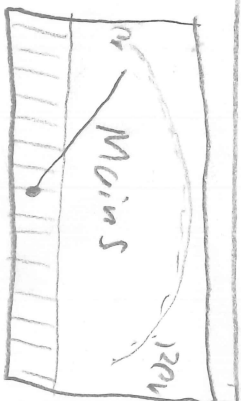
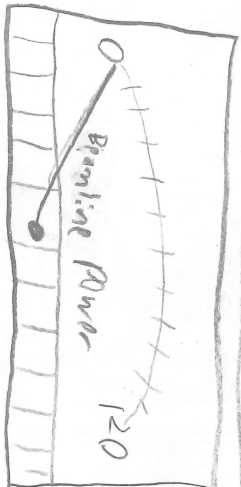
diff pump run for 40 min
 max vacuum $5 E^{-5}$ Torr

Run #5 High vac data

diff pump run 40 min
 w/ beamline installed
 max vacuum $1 E^{-4}$ torr

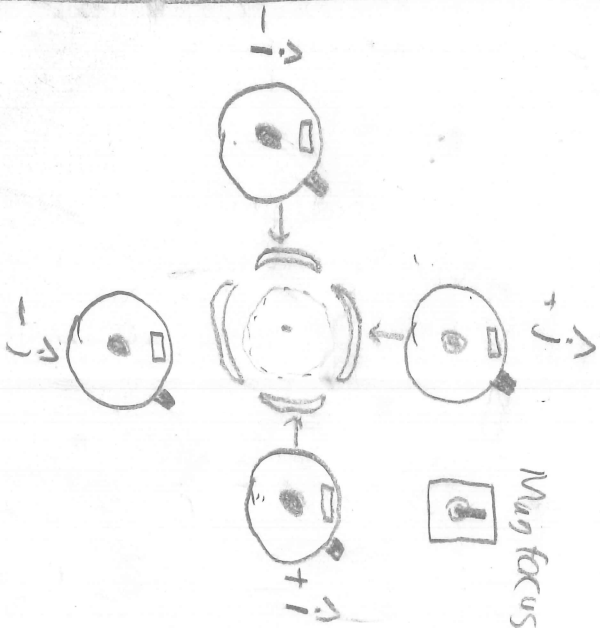
0
 10 min \rightarrow $1 E^{-4}$ torr
 60 min \rightarrow $2 E^{-5}$ torr

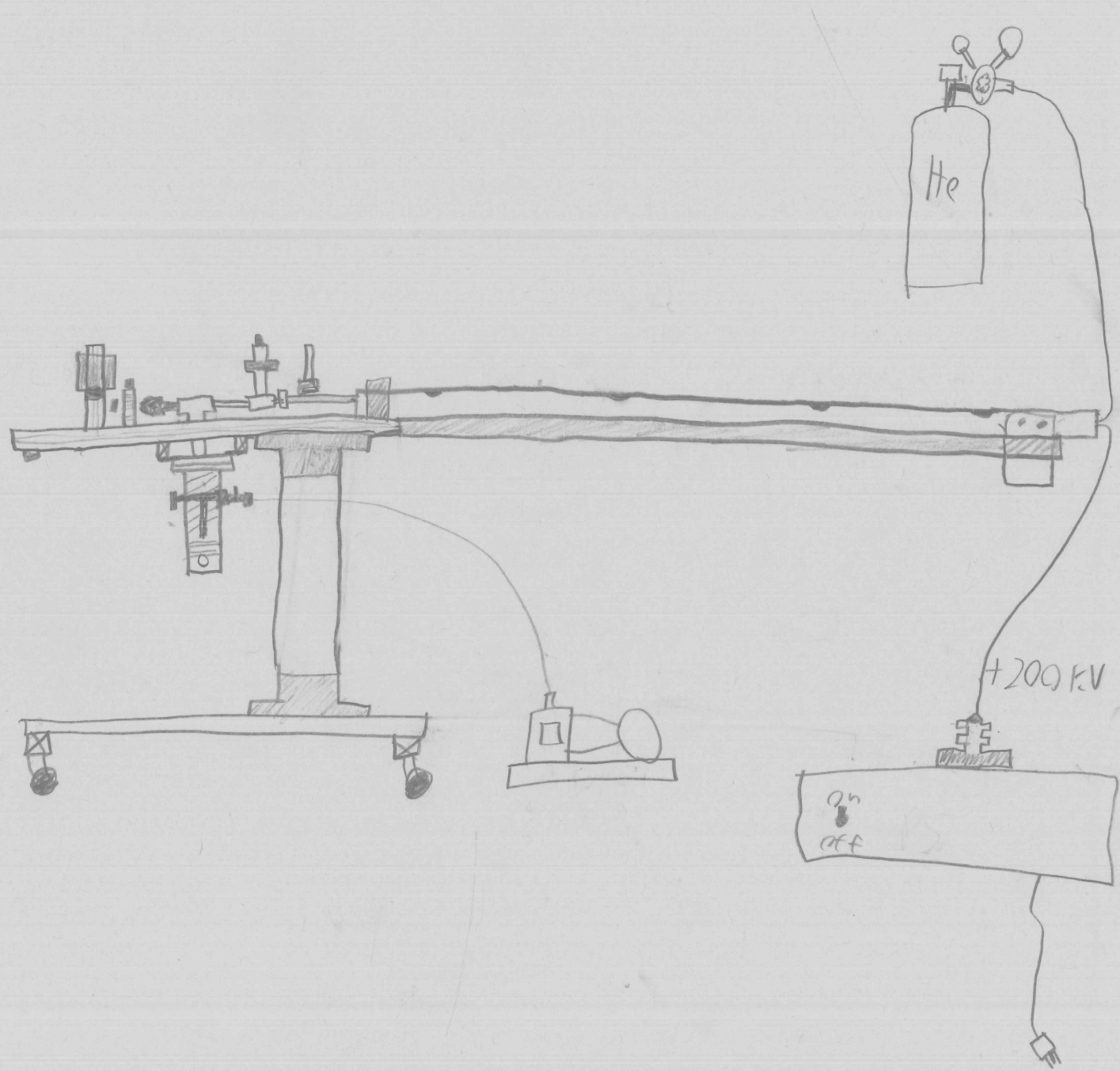




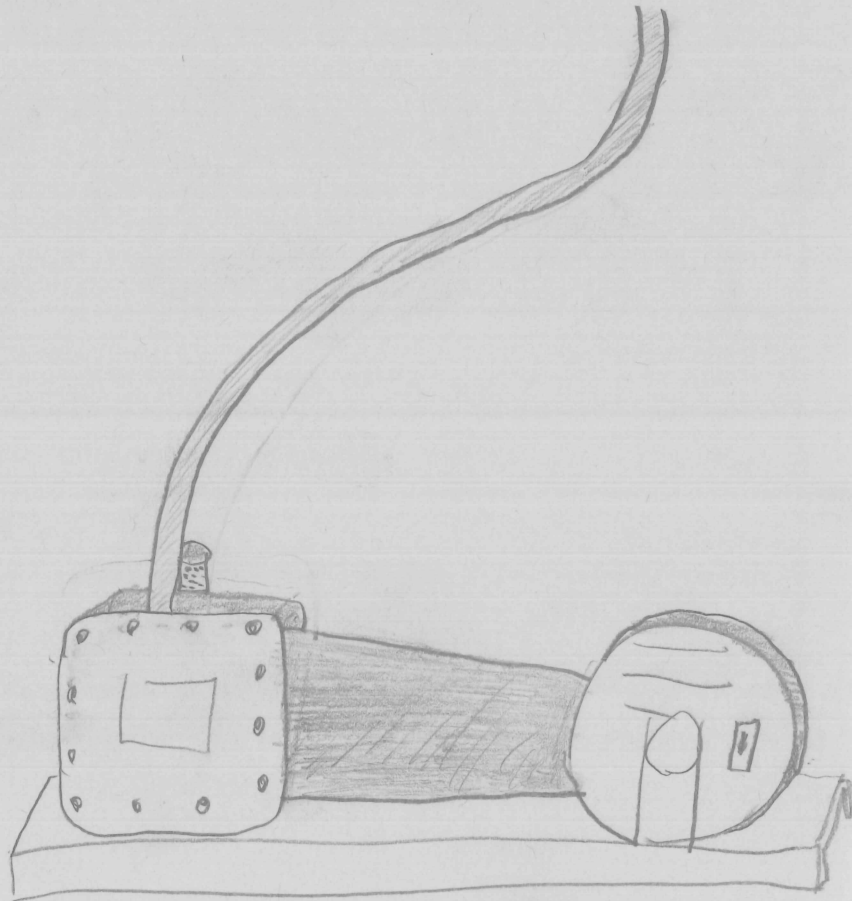
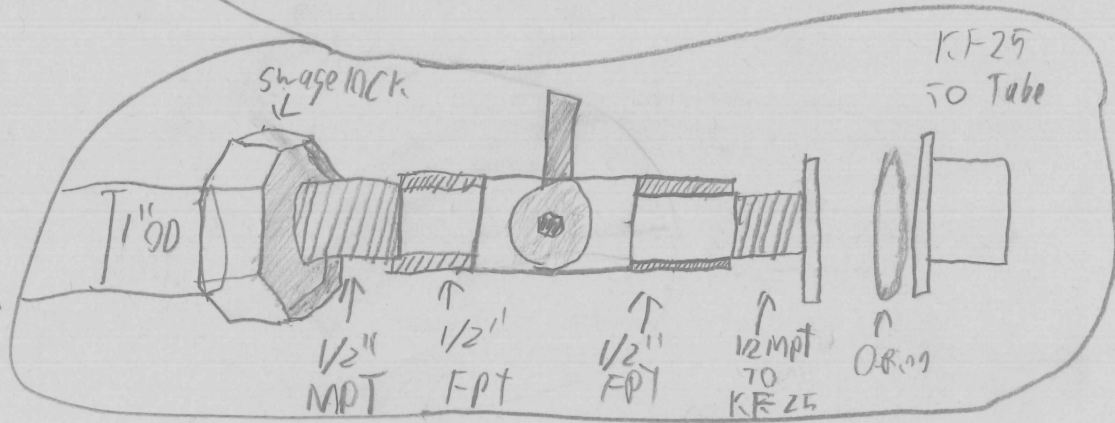
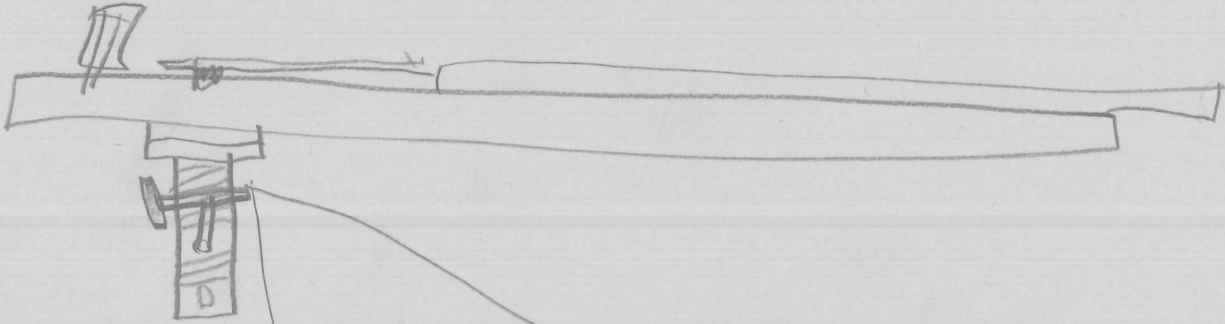
539

Mgn focus





Vacuum

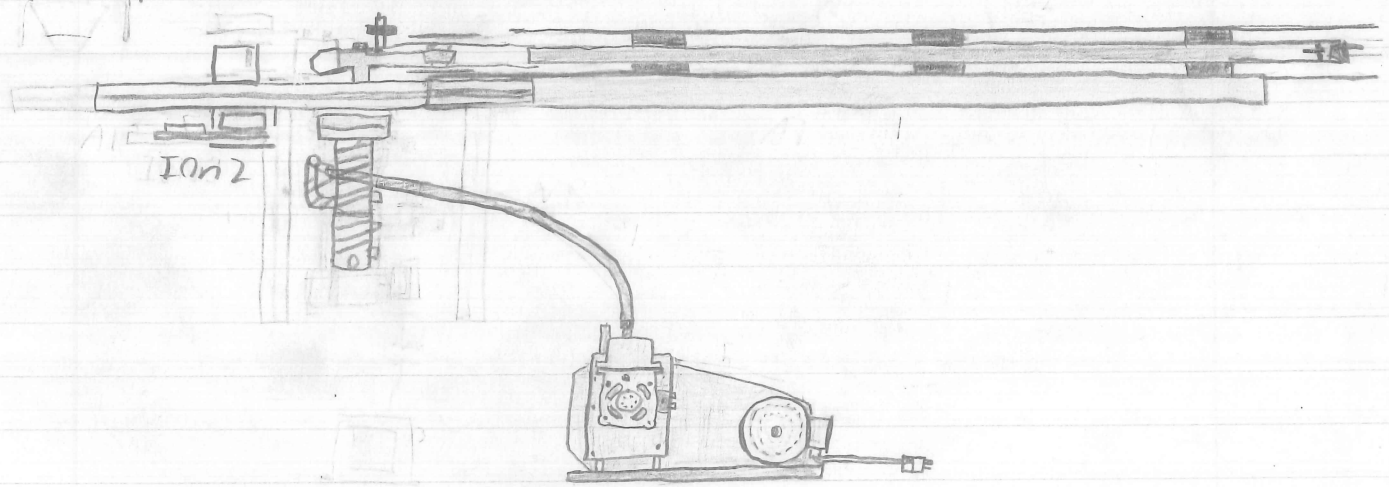
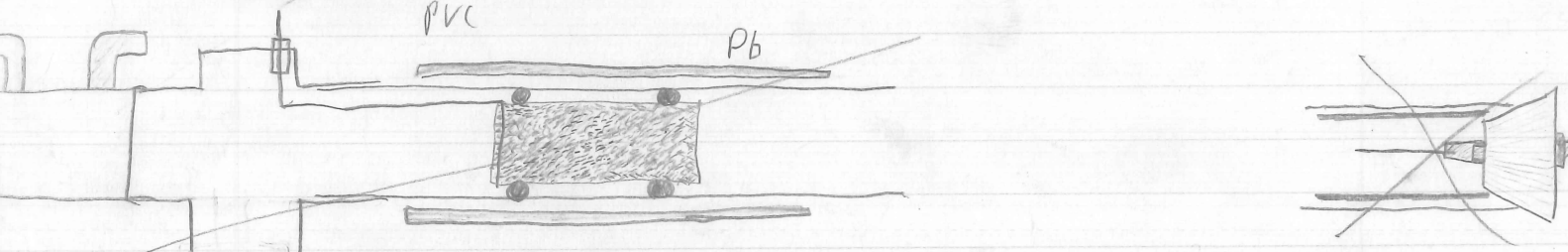
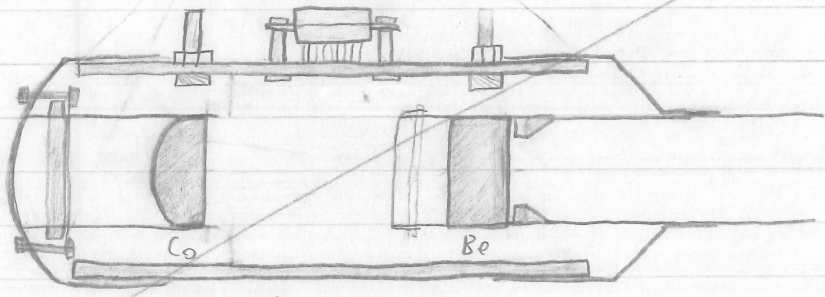
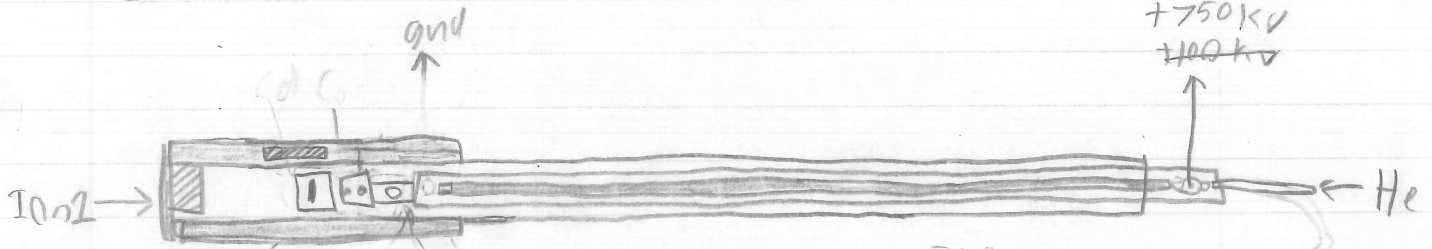


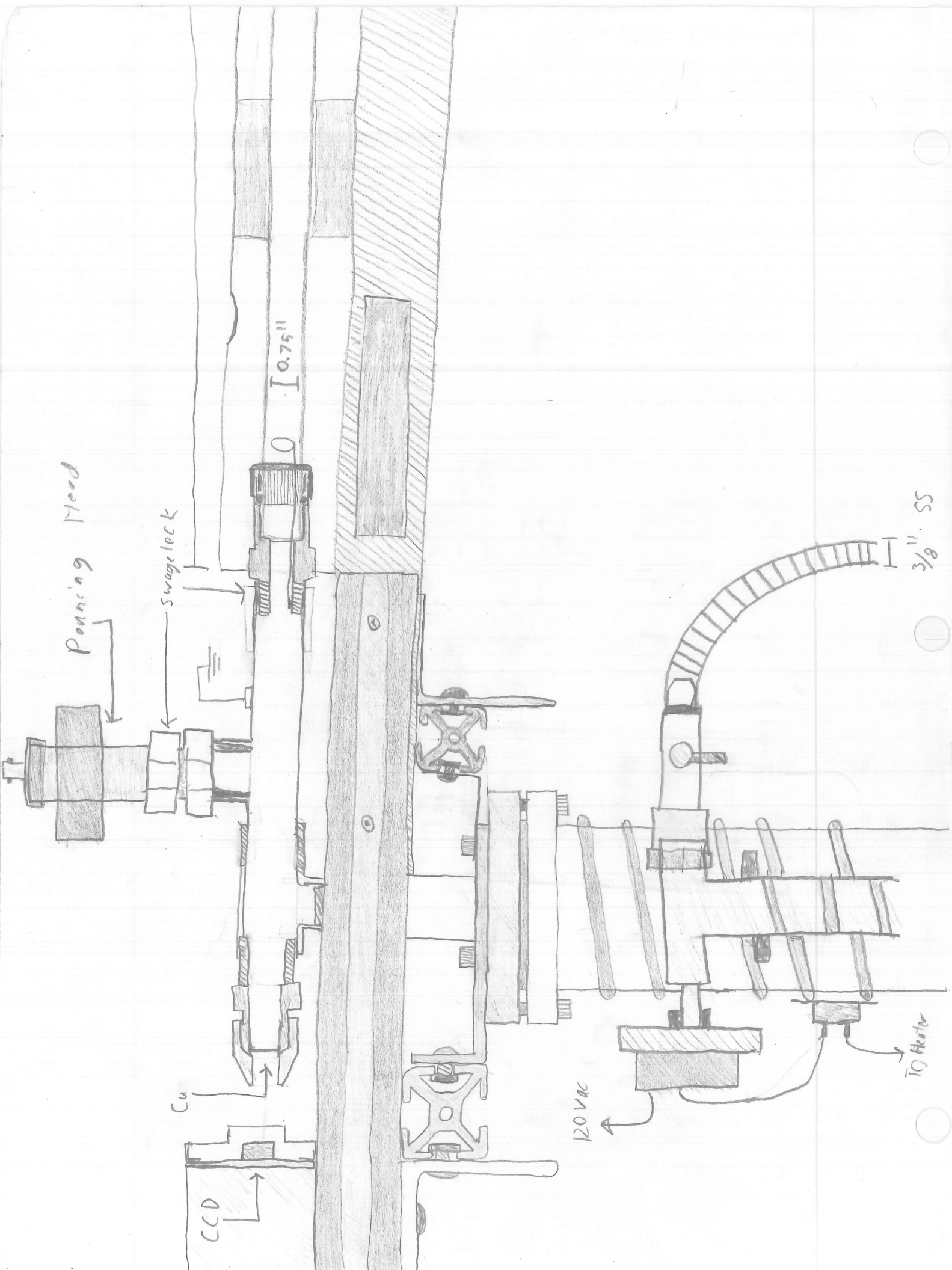
Particle Accelerator

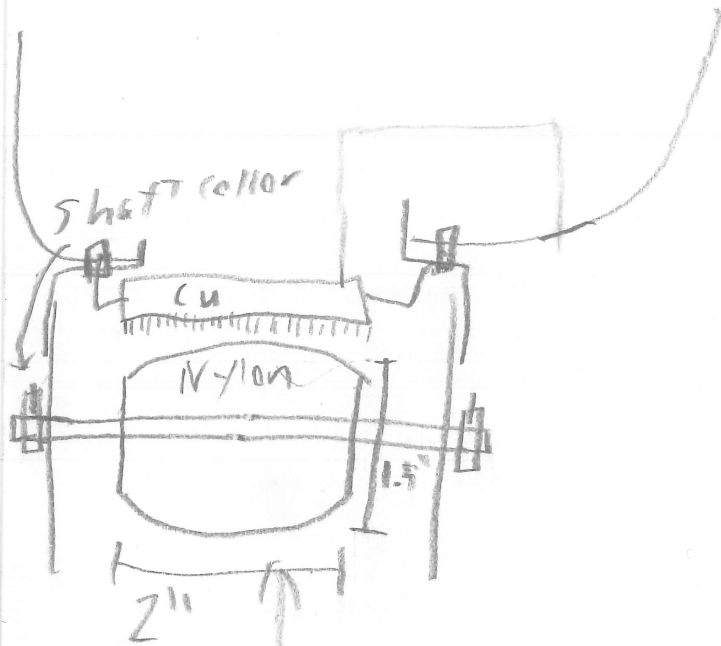
Progress

12/20/02	Wrench 1400 rebuild complete
12/23/02	wrench tested 10 umitg
12/23/02	Superstructure implated
2/19/03	CVC PMCS-2C rebuild complete
2/29/03	diffusion pump attached
3/9/03	UMV fittings modified/attached
3/10/03	Bucking pump conicted to diffusion pump
3/15/03	Beamline powered up at 10uA, 30 keV
3/21/03	Diff pump wired
3/29/03	Diff pump charged/vac sys tested
	Van de graff generator Base build
3/30/03	System leak tested/sealed
	Vac sys tested

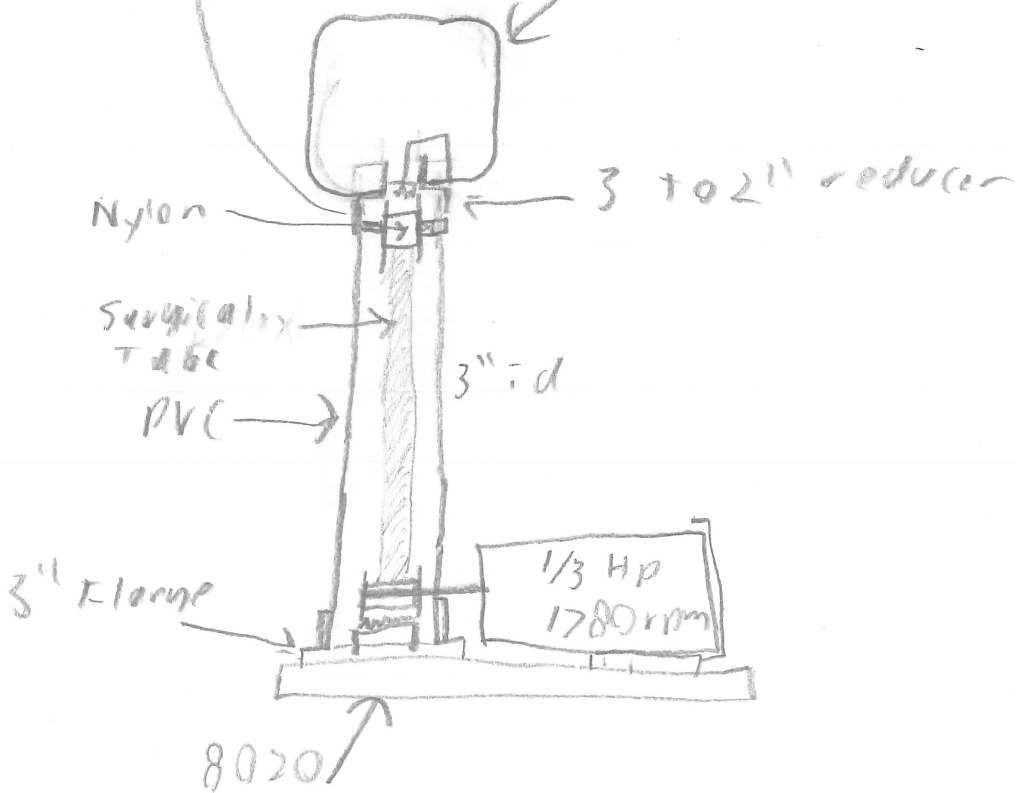
≈ 2" I

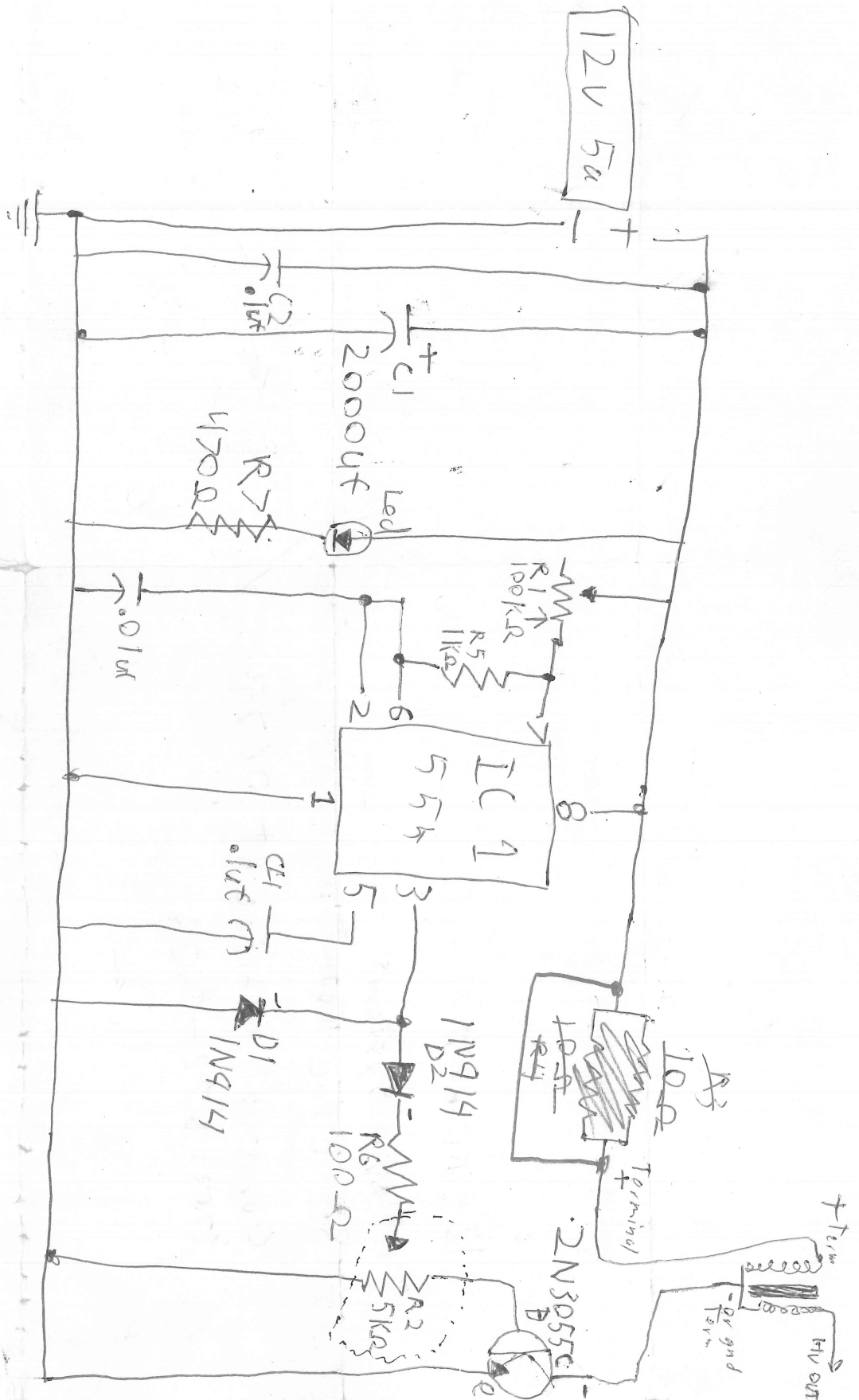


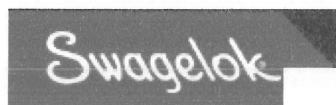




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2. SS-1210-1-8	Stainless Male Connector, 3/4" O.D. - 1/2" O.D.		17.30	<input type="text" value="1"/>
3. SS-1210-1-4	Stainless Male Connector, 3/4" O.D. - 1/4" O.D.		Quote	<input type="text" value="1"/>
4. T-1613-1	PTFE Front Ferrule, 1" O.D.		4.55	<input type="text" value="3"/>
5. T-1614-1	PTFE Back Ferrule, 1" O.D.		3.65	<input type="text" value="3"/>
6. T-1213-1	PTFE Front Ferrule, 3/4" O.D.		2.66	<input type="text" value="3"/>
7. T-1214-1	PTFE Back Ferrule, 3/4" O.D.		2.49	<input type="text" value="3"/>

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GPH320C Operating Notes

This instrument is designed to measure absolute pressures below 1×10^{-2} only. If this instrument is left on at pressures above this or atmospheric pressure severe contamination will occur in the gauge tube, requiring cleaning and re-calibration. Turn off gauge after zeroing your standard.

Turn this gauge on only long enough to measure the base line pressure of your vacuum pumping system. When this gauge reads 5×10^{-6} torr, (middle of 10^{-5} range) your system is low enough to zero your Standard Vacuum Gauges (model: PVS3 & 80-6A/CM-11). When the gage reads below 1×10^{-5} torr, (full scale on 10^{-5} range) your system is low enough to zero your Standard Vacuum Gauge (model PVS1-10). This corresponds to a vacuum which is below the resolution of your standard.

In cases where your pumping system cannot achieve a pressure below 1×10^{-5} torr, you may zero your standard and note the baseline pressure of your system. The baseline pressure should then be added to all your subsequent readings of your standard to obtain the true pressure.

Example: Baseline pressure = 1×10^{-4} torr

Standard Pressure Reading at test point = .01 torr

True pressure = .0101 torr