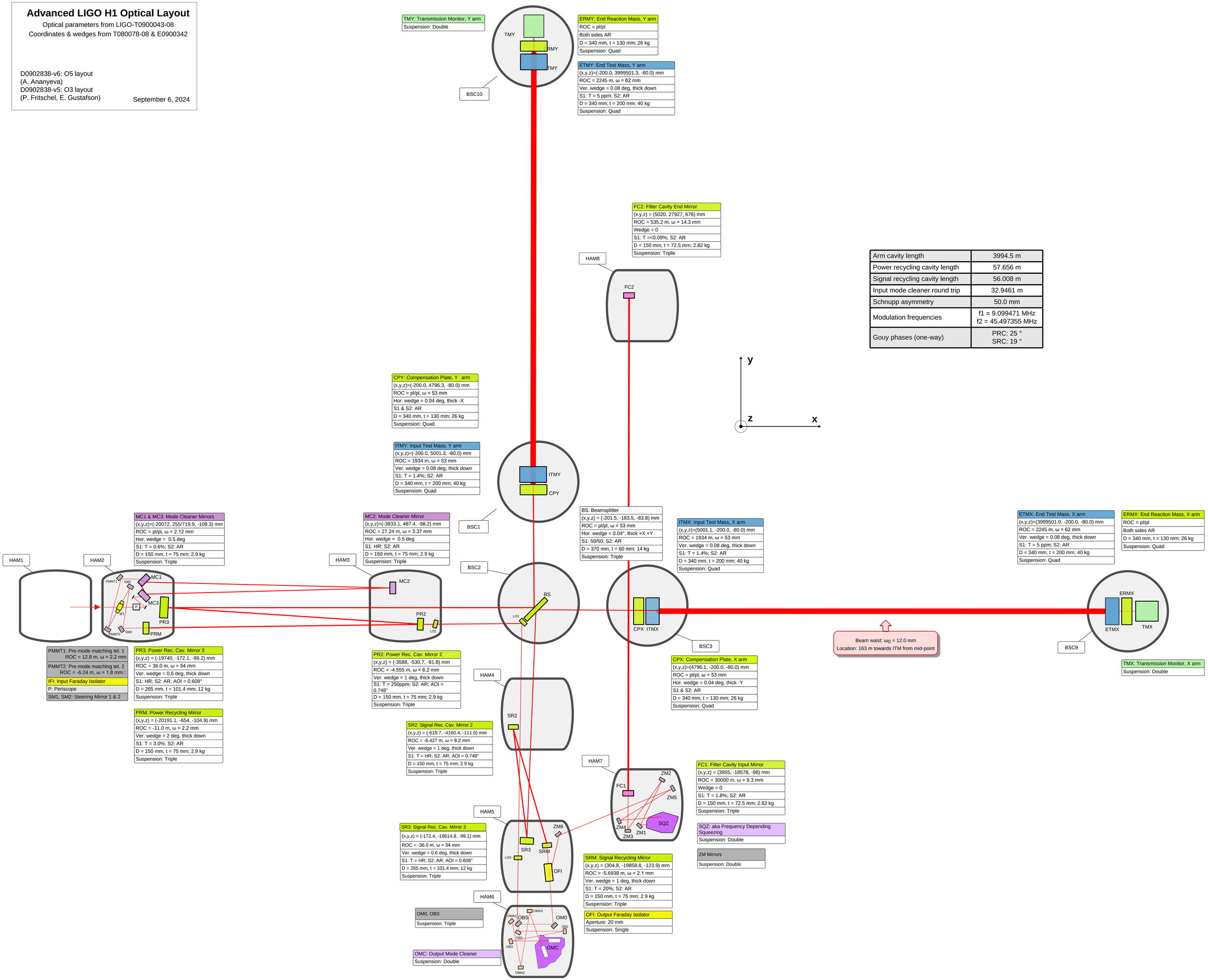
Advanced LIGO H1 Optical Layout

Optical parameters from LIGO-T0900043-08
Coordinates & wedges from T080078-08 & E0900342

D0902838-v6: O5 layout
(A. Ananyeva)
D0902838-v5: O3 layout
(P. Fritschel, E. Gustafson)

September 6, 2024



Arm cavity length	3994.5 m
Power recycling cavity length	57.656 m
Signal recycling cavity length	56.008 m
Input mode cleaner round trip	32.9461 m
Schnupp asymmetry	50.0 mm
Modulation frequencies	f1 = 9.099471 MHz f2 = 45.497355 MHz
Gouy phases (one-way)	PRC: 25 ° SRC: 19 °