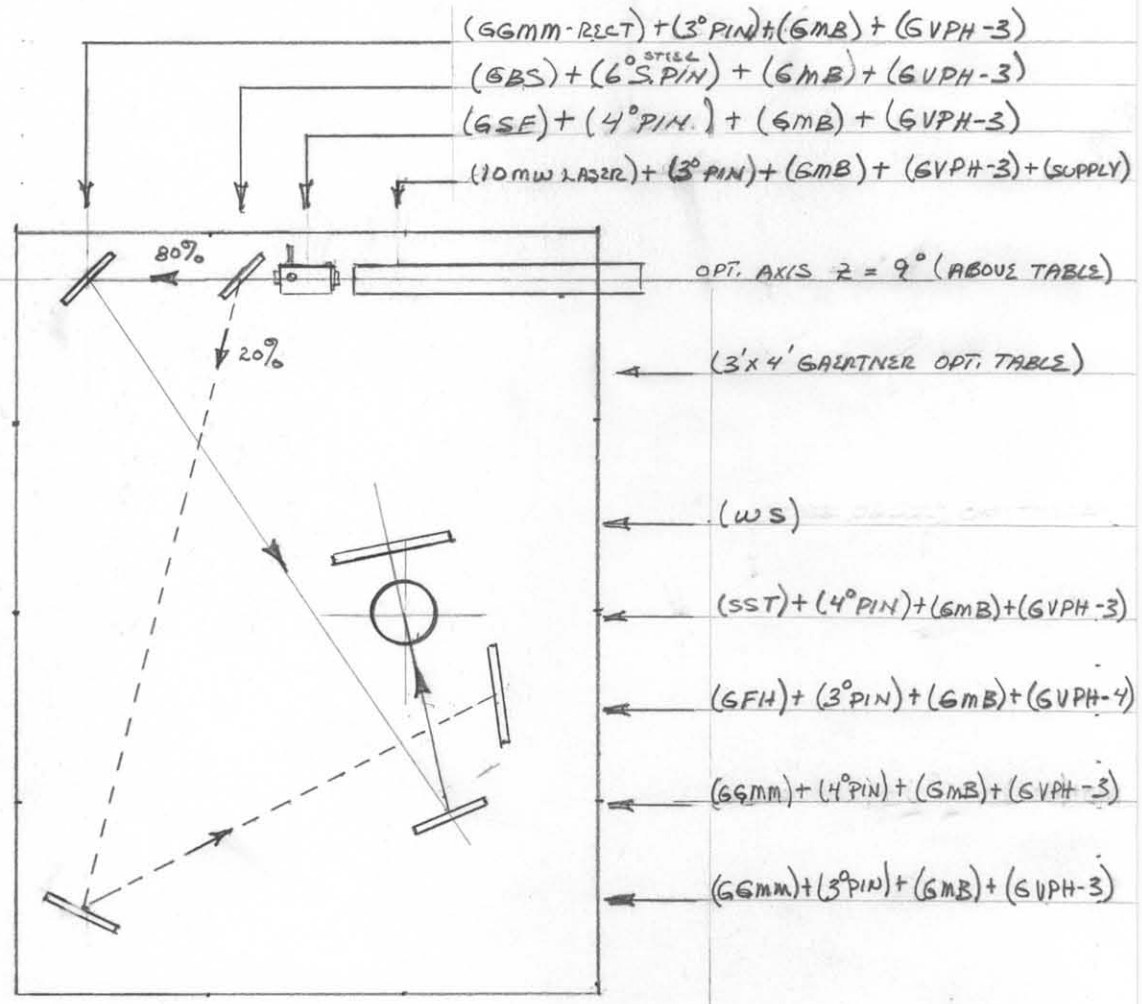
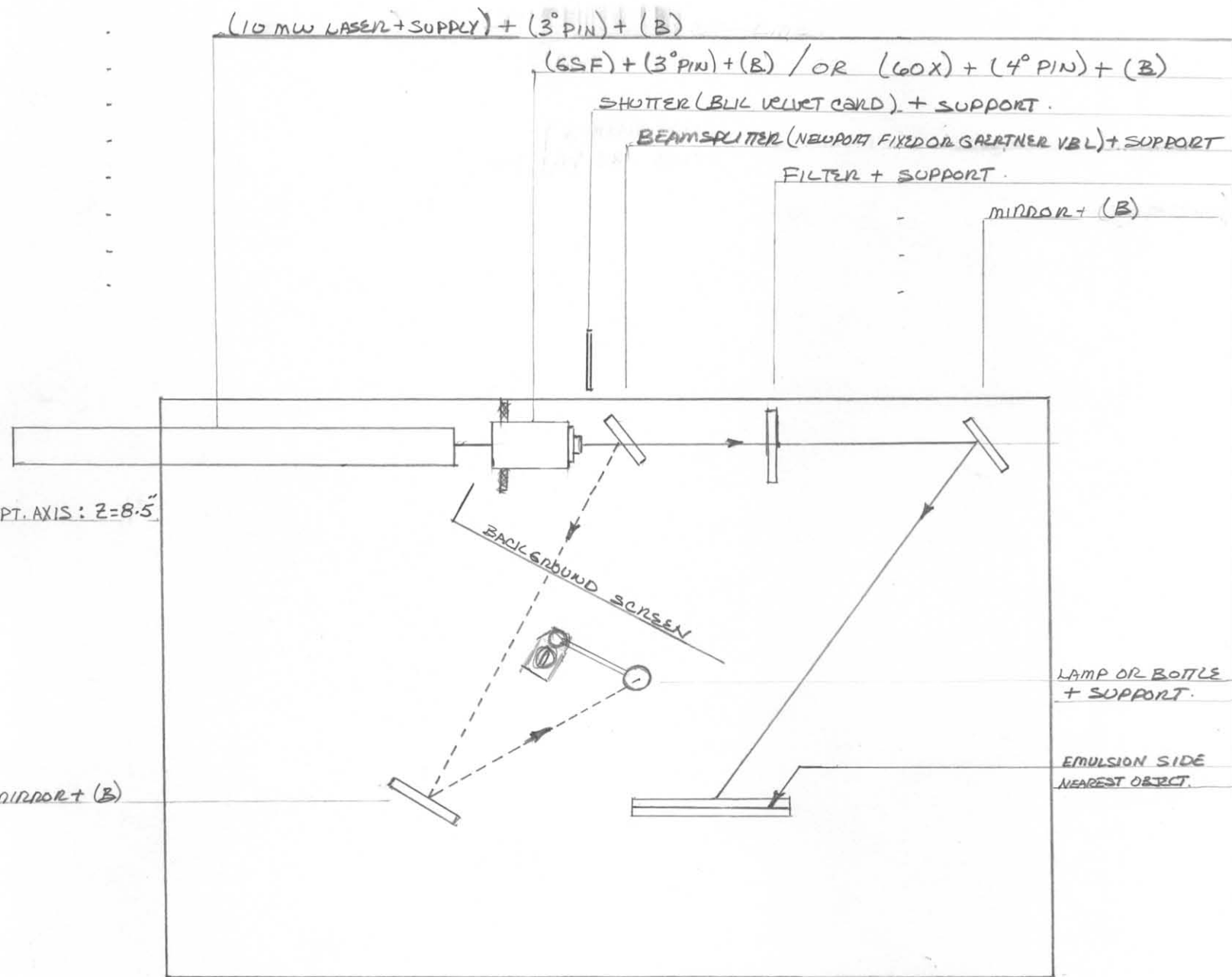


HOLOGRAPHY (3'x4' TABLE) [2-BEAM TRANSMISSION]



NOTES

1. (GMB) + (GVPH-3) = (GAERTNER MAGNETIC BASE) + (GAERTNER VERTICAL POST HOLDER - 3 7/16" HIGH)
2. (GBS) = (GAERTNER BEAM SPLITTER / ~3 1/2" OD / VARIABLE 0-8 { 0 = 100% T ; 0% R }
8 = 20% T ; 80% R }
3. (GSF) = (GAERTNER SPATIAL FILTER / CAN USE WITH OR WITHOUT (LESS DIFFICULT) PINHOLE)
4. (GGMM) = (GAERTNER GIMBAL MOUNT MIRROR / 2 = 3 1/2" OD / 1 = 2" x 3")
5. (SST) = (STAINLESS STEEL TABLE / 4" OD x 1/2" THICK)
6. (GFH) = (GAERTNER 0.060" x 4" x 5" GLASS HOLOGRAPHIC FILM HOLDER)
7. (WS) = (WHITE SCREEN - NEUTRAL BACKGROUND)
8. INFLATE TABLE TIRES (VIBRATION ISOLATION)
9. COULD REPLACE (GSF) W/ LOX OBJECTIVE W/ OBJ. RING MOUNT
10. BEAMSPLITTER SETTING = # 2 (⇒ 20% = REF. BEAM ; 80% = OBJECT BEAM)
11. EXPOSURE: 2-3 SEC W/ 10 mW LASER.
12. HOLOGRAPHIC PLATE: EMULSION SIDE NEAREST OBJECT
13. SHUTTER: 3x5 INDEX CARD. / BLACK CLOTH COVER { BEFORE / AFTER EXPOSURE
TRANSPORT TO DARK ROOM
INSURES BOTH BEAMS
COHERENT @ OBJECT }
14. TOTAL REFERENCE PATH = TOTAL OBJECT PATH ± (1) LASER LENGTH.



(B) = (TV PH-2) + (AC) + (EMB) = (THORLABS VERT. POST HOLDER - 2") + (ADAPT. CYL) + (ENCO MAG. BASE)

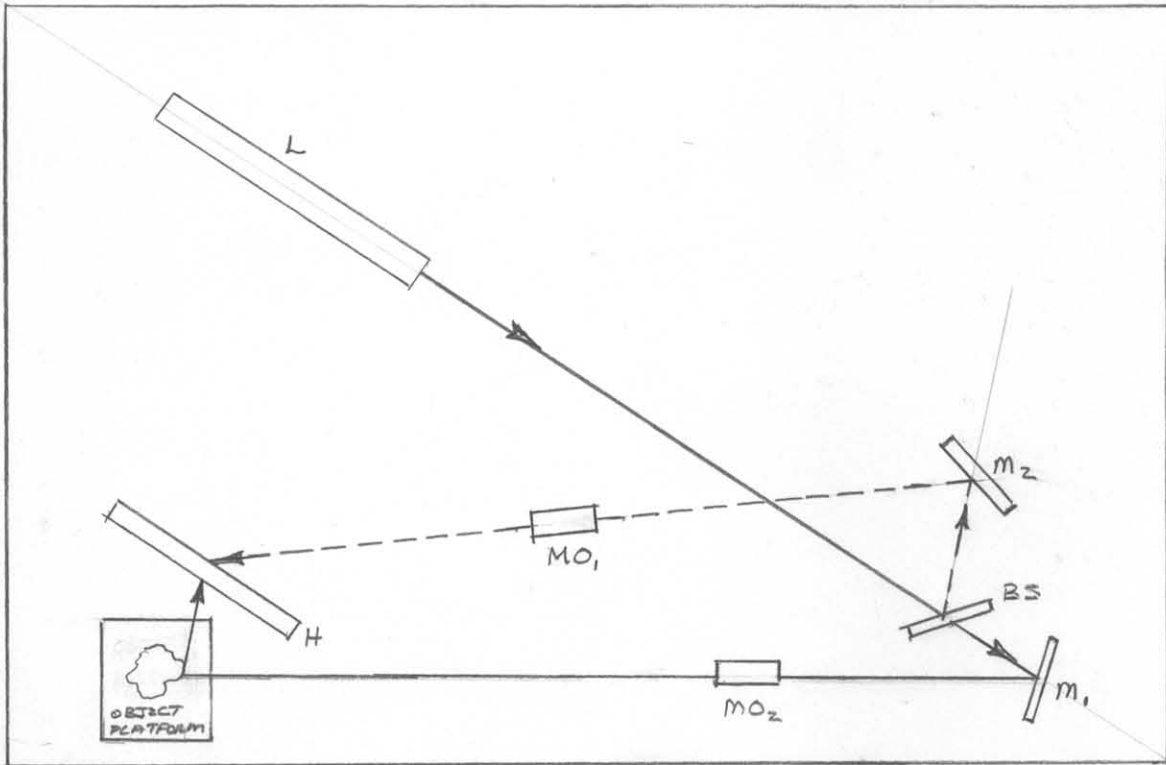
(GSF) = (GAERTNER SPATIAL FILTER)

(60X) = (60X MICROSCOPE OBJECTIVE + OMR)

SEE SET-UP #1 FOR ADDITIONAL DETAILS.

HOLOGRAPHY (2'x3' TABLE) [REFLECTION HOLOGRAM] NEWPORT MANUAL P-8,9

OPT. AXIS: $Z=3^\circ$ (ESTAB. BY NEWPORT COMPONENTS)



$L = (2 \text{ MW LASER} + \text{SUPPLY}) + 2[(AC-2) + (RB-LM2-2) + (EB-1) + (\text{BOBBY PIN} + \text{SCREW})]$

$BS = (5^\circ \text{ BEAMSPLITTER}) + (AC-1) + (RB-LM1-2) + (EB-1) + (\text{BOBBY PIN} + \text{SCREW})$

$M_1 = (2'x2' \text{ MIRROR} + 4' \text{ PIN}) + (CA-2) + (3' \text{ PIN INTO TABLE})$

$M_2 = (1' \text{ RD MIRROR} + MM2-1A) + (RB-MM2-2) + (EB-1) + (\text{BOBBY PIN} + \text{SCREW})$

$MO_1 = MO_2 = (60X \text{ OBJ}) + (\text{NESTING LM-1}) + (RB-LM1-2) + (EB-1) + (\text{BOBBY PIN} + \text{SCREW})$

H = HOLOGRAPHIC PLATE HOLDER.

EXPOSURE: ~

SEE SET-UP #1 + NEWPORT MANUAL FOR ADDITIONAL DETAILS.

NOTE: NEWPORT NUMBERS FROM HL-1A KIT.