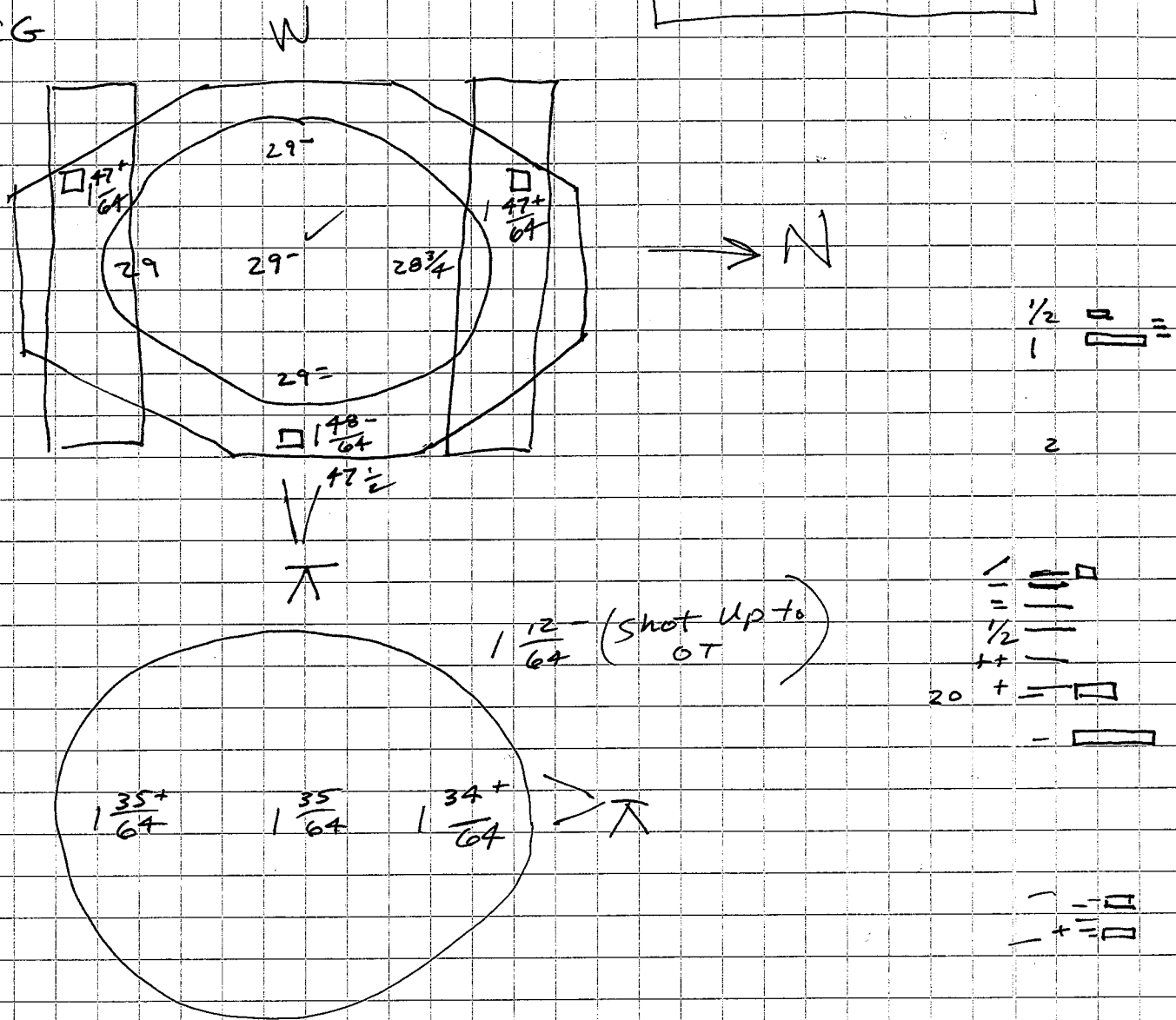


BSC-151 #1 (BSC 8)
on MTS#2

26 July 2011
OPTICAL LEVEL SHOTS

MAX HR
∅ CG

Solkia # 101570



Shot Optical Table Bottom and stage 0 Alignment Post Pocket from East as above. The shots on the stage 0 ^{indicate a slight tilt, down} suggest to the east of $1/64 (47+) - 1/64 (48-) = \sim .008" (\sim .2 \text{ mm})$. The alignment post pocket is $\sim 1 \text{ m}$ radius from center so $.2 \text{ mm/m} \Rightarrow .2 \text{ mrad}$ - well under tolerance. The optical Table (locked) ($< .001" \text{ CHG lock/unlock}$) shows tilt down to west ($29 \text{ mm} - 29 = \sim .003"$) and down to North $29 - 28 \frac{3}{4} = \frac{1}{4} \text{ mm}$. So over almost 2m of the Optical Table $.25/2 = .125 \text{ mrad}$. Optical Table Level Tolerance from IAS (Initial Alignment) is .4 mrad.