

Resurvey of 4th Standard Parallel ^{N.} through R. 44 E.

In making Survey of this Standard I found it was impossible to secure two extra Chainmen, I therefore checked the measurements by Stadia, using a 137 ft. rod reading to thousandths fitted with two targets, having first found the index error of the Stadia wires by many trials on carefully measured base on flat to be -8 cks. in 80 Chs.

Starting at the Standard Cor. to T^p 21. N. R 43²/₄ 44 E. which is a granite stone 20x14x10 ins set 6 ins in the ground, markings nearly obliterated, I rebuild said Cor. at the same point as follows. Set a granite stone 22x12x12 ins. 16 ins. in the ground marked

S.C. 21 N on N

44 E on E and

43 E on N face, with 6 grooves on E. N²/₄ S. faces, raise mound of stone 5 ft. base 2 1/2 ft. high N. of Cor.

On June 12. at 7^h 20^m A.M. at this Cor. I observe direct observation of lower limb of Sun to check azimuth as follows. included angle from E²/₄ N. line on S. bdy. of Sec. 36 T21 N. R 43 E. to Sun is 6° 28' Lat. is 39° 37' 19" Decl. is 23° 08' 22".

Alt. $29^{\circ} 38'$
 semi dia. $\frac{15' 46''}{29^{\circ} 53' 46''}$
 Ref. $\frac{1' 39''}{29^{\circ} 55' 25''}$

$29^{\circ} 52' 07''$ True Alt.