

GENERAL DESCRIPTION

This survey was made by first staking out the center line of the Sutro Tunnel on the surface. Next three cross measurements were made, at right angles with said center line of 2004 feet on each side of it. The first cross measurement was made at the mouth of the Tunnel, the second at a distance of 15815 feet and the third at a distance of 27919 feet from the mouth of said tunnel. A steel tape was used with a pull of ten pounds, each measurement being made twice, and the greatest error found in any of the cross measurements being 0.09 of a foot.

The right angles were turned and the lines flagged through with a 12 inch Transit instrument after the Northerly and Southerly lines of the grant were staked out. they were measured with a twenty foot chain and plumbed and iron monuments two inches in diameter were set at not more than twenty chains apart, and also in some of the most conspicuous places. In the City of Virginia proper, it was impossible to place monuments on account of its being too densely built up but the offset lines were marked by iron bolts and connected with the City Survey.

(Signed) Charles F. Hoffman

Deputy Surveyor