that the cross line in the telescope coincided with the upper edges of both boards, while the telescope itself was level. With this arrangement it was possible to sight all four wires from the same position, because a turn of the telescope would not change the height of sight line.

The guideboards were moveable in an iron frame in order to adjust their height according to the temperature. A similar arrangement served for the land spans. A board was fastened to the masonry of each tower forty feet below saddleplate. A tangent line from the upper edge of this board drawn to the land curve, will intersect the face of anchorage at a certain height, which, determined by calculation, will serve to establish a sight line for the regulation.

_APM_ (see Fig. 28α) represents the curve of land cable, _NR_ the tangent in point _P_, _NL_ the face of anchorage and _RD_ that of tower. Taking _M_ (the vertex of the curve) as origin of coordinates, _MY_ as axis of ordinates and _MX_ as axis