

work but will necessarily confine himself almost entirely to directing the work of the transit party. The engineer in charge will indicate where the lines are to be run and the results he desires to attain, and the assistant Engineer will direct the work of the party so as to obtain the required information. He will exercise such supervision of the individual members of the party as may be necessary to see that their duties are properly performed, or as may be directed by the locating engineer.

On the final location the Assistant Engineer will perform such duties as may be indicated by the engineer in charge.

#### TRANSITMAN.

The transit man is expected to run the transit ordinarily and is responsible for the instrumental work of the alignment and notes of the same.

Read carefully the instructions in regard to notes and note books and keep notes in the form shown at the end.

On Preliminary lines, give careful line for the hub. When the hub is driven have the tack driven in the centre of it without giving line again. Then setting on zero and carefully sighting on the back sight turn the angle to the tack in the hub and double it.

Double all angles.

Read the needle and check the calculated course, with the needle course Before Picking Up and be sure that you have a check that the angle has been sighted, read and recorded correctly.

When producing line ahead, all points must be "double-centred" or, as it is otherwise expressed, the telescope