

RESTRICTED

SECTION 50 – ORGANIZATION

1109. When heavy clearing is necessary, or when accurate results are required, work should be done in two stages:

- a. Establish the centre line and mark limits of clearing.
- b. Locate the edges of the formation and the top and toe of banks, and establish final levels.

1110. In all deliberate work final location is divided into three stages:

- a. Leading party. Locate tangents on the ground, forming a series of intersecting straight line. Fix pegs at tangent points and intersection points.
- b. Second party. Measure chainage (continous), set out curves joining tangents, drive centre line pegs and mark their chainage.
- c. Third party. Take levels, set out remaining construction pegs, and mark cut or fill on centre line pegs.

1111. Proper organization of setting out parties is most important. Actual requirements very considerably. Typical examples are given in Tables 11.1 and 112

TABLE 11.1: TYPICAL ORGANIZATION FOR RAPID SETTING OUT

Ser No	Personnel	Equipment	Duties and remarks
1	01 x officer 01 x assistant	Maps, pocket level, compass, earth auger, and set of RESPB	Booking, calculations, field soil identification
2	02 x staff men	2 staff, marking pegs or “arrows”	
3	02 x peg men	2 mauls, prepare pegs	Record levels of centre line pegs
4	04 x tape men	2 tapes or chains	Record chainage of centre line pegs
5	01 x NCO and 02 x OR	Tapes, 2 staffs, pocket level, pegs, maul, whitewash and brush	Cross section and setting out prty

RESTRICTED

6	02 to 10 OR	Saws, axes, bilhooks, etc as required by type of country and vegetation	Clearing party
---	-------------	---	----------------

**TABEL 11.2: SUGGESTED ORGANIZATION FOR DELIVERATE
SETTING OUT OF A GENERAL PURPOSE ROAD IN NORMAL
COUNTRY**

Ser No	Task	Personnel	Equipment
(a)	(b)	(c)	(d)
1 2 3 4	Locating straights, tangent points, and Ibs- General supervision Measuring offsets from traverse line and tangent distances. Lining in tangent measating angles, booking Carrying and driving pege.	1Officer 2OR 1NCO 2 OR	Prismatic compass location plans 100-ft steel tape, ranging poles. Theosolite or com pass Pegs, hammer
5 6 7 8 9 10 11	Chainage and setting out curves- General supervision Lining in tangent and curve pege Booking Chainage Carrying and driving pegs Carrying and drving CL Pegs and marking pickets Carrying stores	1Officer 1 OR 1NCO 2OR 1 OR 6 OR 1 driver IC	Prismatic compass Theodolite or compass 100- ft steel tape arrows. Pegs, hammer Pickets manulshandaxe, matchet pegs, hammer Vehicle
12 13 14 15 16	Levelling and setting our working pegs- General supervision Reading instrument Staff man Measuring offsets	1 officer or senior NCO surveyor 1 OR 1OR 22OR	Location plans longitudinal section Quichest level Levelling staff 100- ft tape pegwoickets maul, hammer

RESTRICTED

17	Carrying and driving pege and marking pickets Carring stores	2OR 1 driver IC	Vehicle
----	--	--------------------	---------

Note. – In the above organozation it is assumed that the general aligment of the traverse lines has already been marksed and that essential clearing work has been don.