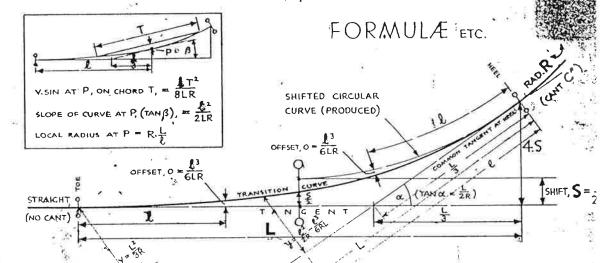
THESE NOTES ARE INTENDED FOR THE GUIDANCE AND ASSISTANCE OF STAFF ENCAGED UPON PERMANENT THEY DO NOT IN ANY WAY MODIFY OR AMEND THE INSTRUCTIONS LAID DOWN IN E.D.L, STANBARD DRAWN

FORM OF CURVE IS USUALLY THE CUBIC PARABOLA (SHOWN BELOW) SET OUT BY REGTARGUE OFF THE TANGENT (RANGED BY THEODOLITE) FROM THE TOP OF THE TRANSITION TO ITS MID PE BY RADIAL OFFSETS OFF THE SHIFTED CURVE FROM THE HEEL OF THE TRANSITION TO ITS MID-POI



D = DISTANCE (IN FT.) TO RUN UP 1"OF C FOR OVER 65: M.P.H. ... D = 120 FT. . E.D.I. \$239 FROM 50-65 M.P.H. · · D = 190 FT. UP TO 50 M.P.H ... D = 66 FT. IN EXCEPTIONAL CASES · D = 40 FT. E.D.I. § 244 (INTERMEDIATE VALUES MAY BE USED WHEN NECESSA

THE SHIFT, S. CAN VARY CONSIDERABLY WITH DIFFERENT COMBINATIONS OF CURVE AND CANT, FR AMOUNTS TOO SMALL TO MAKE A TRANSITION WORTH WHILE (SAY, LESS THAN 1/4); TO TO FACILITATE QUICK EVALUATIONS OF THE FORMULA , \$ = 12 THE GRA ON SHEET R.1773 "TRANSITION CURVES (2)" SHOULD BE USED.

CONCRETE BLOCKS

ALL SUCH TRANSITIONS SHOULD BE MARKED ON THE GROUND IMMEDIATELY AFTER SETTING OUT,

WITH PERMANENT CONCRETE BLOCKS, AT INTERVALS CORRESPONDING TO $\frac{1}{2}$ INCREMENTS OF CANT (\$ " IF THE RUN-UP IS FLAT) INDICATING THE CENTRE-LINE AND CORRECT CANT AT EACH POINT. (E.D.I. § 238 & 242)

SAW-COT ? BLOC

45

WHERE C = CANT ON CIRCULAR CURVE (IN INS.

DETAILS OF NEW TRANSITIONS IN CONNECTION WITH CURVE REALIGNMENTS MUST BE SENT TO THE CHIEF ENGINEER, IN THE PRESCRIBED FORM (CIRC. Nº 9/283

SIMILAR CURVES

A TRANSITION FROM A FLAT CURVE OF RADIUS R, TO A SHARPER CURVE OF RADIUS R2 MAY BE

CALCULATED BY USING THE "EQUIVALENT RADIUS" Re = RIRE IN PLACE OF R IN THE FORMULE AL THE OFFSETS ARE SET OUT, RADIALLY, OFF THE FLATTER CURVE FROM THE TOP OF THE TRANSITION TO ITS MID-POINT; AND OFF THE SHARPER CURVE FROM THE HEEL OF THE TRANSITION TO ITS MID-POINT. THE LENGTH OF TRANSITION, L = D x DIFF. N.B. A TRANSITION OF CANT (IN INS) D(C2-C1)

BETWEEN CURVE AND CURVE (OR STRAIGHT AND CURVE) IS CENERALLY UNNECESSARY WHEN THE SHIFT IS LESS THAN 1".

LENGTH OF TRANSITION, L = C x D

TRANSITIONS BETWEEN REVERSE CURVES MAY BE SET OUT TOE-TO-TOE ... WITHOUT A LENGTH OF STRAIGHT BETWEEN THEM, PROVIDED D IS MAD SAME FOR BOTH AND LEVELS ARE SET.

ENSURE AN UNBROKEN GRADIENT ON (SEE SKETCH ON LEFT EACH RAIL . ELEVATION THROUGH REVERSE CUR

RAD.R2