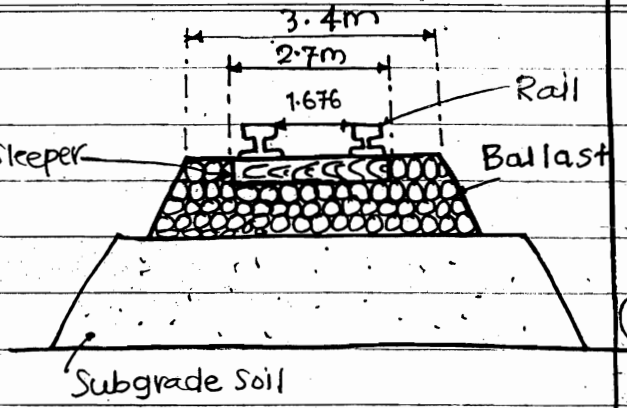

① $V_{max} = 4.35\sqrt{R-67}$

② $R = 1720/D°$

③ $e_{act}/e_{equi}/e_{avg} = \frac{G \cdot V_{max\,avg}^2}{127R}$

$e_{act} \not> 16.5cm$

④ $e_{th} = e_{act} + CD$

$C.D \not> 7.6cm$

⑤ $e_{th} = \frac{GV_{max}^2}{127R}$

⑥ $e_{BT} = -e_{MT}$ $\quad e \propto \frac{1}{R}$

⑦ $y = \frac{x^3}{6RL}$

⑧ $L = 7.2e$

$L = 0.073\, e.V_{max}$

$L \;\; 0.073\, CD.V_{max}$

} max

⑨ Gradient $= mg\sin\theta$

⑩ $CL = 2GN$

$R_0 = 1.5G + 2GN^2$

$R_1 = R_0 - \frac{G}{2}$

$SL = \sqrt{2R_0 d}$

$L = CL - SL$

⑪ Crossover → Projected

Straight → 'DE'

Curved → Triangular

⑫ Hauling Capacity $= M.W.N$

⑬ $R_{T_1} + R_{T_2} + R_{T_3} + R_g + R_c \leq (H_c/TE)_{min}$

$R_{T_1} = 0.0016W$

$R_{T_2} = 0.00008WV$

$R_{T_3} = 0.000006WV^2$

$R_g = W\tan\theta$

$R_c = 0.0004D°.W$ — BG

$0.0003D°.W$ — MG

⑭ Landing → Elevⁿ

⑮ Takoff → • Elevⁿ

• T°C

• Gradient

} Maximum

⑯ $R = \frac{V^2}{125f}$

$R = \frac{0.0388W^2}{\frac{T}{2} - S}$

} Max

$R \geq 180$

$R \geq 120m$

New Series

B.G. = 1.750

1 Chain = 30.5m

$$\frac{30.5}{2\pi R} = \frac{D^\circ}{360}$$

$$\boxed{R = \frac{1750}{D^\circ}}$$

$$V_{max} = 4.4\sqrt{R-70}$$

$$e_{act}/e_{equilli} = \frac{G \cdot V_{avg}^2}{127R}$$

$$e_{th} = \frac{G V_{max}^2}{127R}$$

$$V_{max} = \sqrt{\frac{e_{th} \cdot 127R}{G}}$$

$$= \sqrt{\frac{(e_{act} + e_D)127R}{G}}$$

$$= \sqrt{\frac{(e_{act} + CD)127R}{1750 \times 100}}$$

$$= 0.27\sqrt{(e_{act} + CD) \times R}$$

Length of Transition Curve

$L = 0.72\,e$

$L = 0.008\,e \cdot V_{max}$ } max

$L = 0.008 \cdot CD \cdot V_{max}$ }

V_{max} - km/hr

e_{act} = mm

e_p = in mm