

NOTES:

- THE PROFILE GRADE IS ON THE CENTRELINE OF THE FINISHED TRAVEL LANES.
- SUPERELEVATION IS NORMALLY ATTAINED BY ROTATING INDIVIDUAL ROADWAYS ABOUT THE CENTRELINE OF TRAVEL LANES.

SUBGRADE AND SURFACING DIMENSIONS

A1, A2 = THICKNESS OF ACP (ISI STAGE + FINAL STAGE PAVING)

BI . B2 = THICKNESS OF BASE

 $T_1 = A_1 + B_1$, $T_2 = A_2 + B_2$ $P_1, P_2 = THICKNESS OF FIRST STAGE PAVING$

EXAMPLE: IF $A_1 = 220$ mm, $A_2 = 200$ mm, $B_1 = 400$ mm, $B_2 = 350$ mm

P₁ = 100mm, P₂ = 80mm

 $T_1 = 620$ mm, $T_2 = 550$ mm, $Y_1 = 6.70$ m, AND $Y_2 = 5.70$ m

 $X = B_1 - B_2 = 400 - 350 = 1.25m$; (OFFSET DISTANCE FROM SUBGRADE CROWN TO

BASECOURSE CROWN)

 $X = \frac{P_1 - P_2}{40} = \frac{100 - 80}{40} = 0.5m$; (OFFSET DISTANCE FROM BASECOURSE CROWN TO PAVEMENT CROWN)

 $Z_1 = 5(T_1 + 0.16) = 5(0.62 + 0.16) = 3.9m$

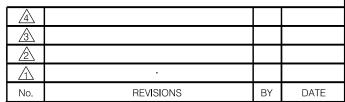
 $Z_2 = 5(T_2 + 0.16) = 5(0.55 + 0.16) = 3.55m$

. TOTAL SUBGRADE WIDTH = FINISHED PAVEMENT + Z₁ + Z₂ = 5.7 + 6.7 + 3.9 + 3.55 = 19.85 m

NOTE:

Date:

THIS DRAWING MAY BE USED TO CALCULATE THE REQUIRED SUBGRADE WIDTH BASED ON SURFACING THICKNESS ON FOUR LANE DIVIDED HIGHWAYS.





Approved:

Transportation

FOR PAVEMENT DESIGN FOR LANE DIVIDED HWY

RAD-412.4-120

N.T.S.

Prepared Checked Scale: By: G.E.C. By: H.T. N.

Dwg No.: CB6-3.50M9