

Project..... 9419 ..... Project No..... Sheet..... 1 ..... of..... 2  
 Location..... Tel. No.....  
 To..... From..... COLEMAN HERSHEY  
 Subject..... DEEVENS PAVEMENT CALCS ..... Date..... 2/28/22 ..... Time..... 6:55

~~STANDARD~~ DUTY DEEVENS STANDARD

ASSUME 1.5" WEARING, 2" BINDER, 12" BASE

PAVEMENT STRUCTURAL NUMBERS (TABLE 75.10 AASHTO 1993)

WEARING = 0.44/in  $SN_1 = 0.44/in \times 1.5 in = 0.66$

BINDER = 0.34/in  $SN_2 = 0.34/in \times 2 in = 0.68$

BASE = 0.11/in  $SN_3 = 0.11/in \times 12 in = 1.32$

$\sum SN_0 = 2.66$

$SN_{REQ (ASSUMED)} = 2.35$

$SN_p (SANBORN HEAD) = 2.49$

ASSUMED DESIGN LIFE FOR SANBORN HEAD CALCS WAS 20 YEARS, ASSUMING DESIGN PAVEMENTS ARE EXACTLY 20 YEAR PAVEMENTS FOR INTERPOLATION FOR DEEVENS STANDARDS

DEEVENS  $\frac{SN_0}{T_0} = \frac{SN_p}{T_p}$   $\frac{2.66}{T_0} = \frac{2.49}{20}$

$T_0 \approx 21.4 \text{ YEARS}$



Project..... 94A ..... Project No..... Sheet..... 2 ..... of..... 2 .....  
 Location..... Tel. No.....  
 To..... From..... COLEMAN HERLEY .....  
 Subject..... DEEVENS PAVEMENT CALCS ..... Date..... 2/28/22 ..... Time..... 6:55 .....

HEAVY DUTY DEEVENS STANDARD

ASSUME 1.5" WEARING, 1.5" + 3" BINDER, 12" BASE

PAVEMENT STRUCTURAL NUMBERS (TABLE 75.10 AASHTO 1993)

WEARING = 0.44/in

SN<sub>1</sub> = 0.44/in x 1.5 in = 0.66

BINDER = 0.34/in

SN<sub>2</sub> = 0.34/in x 4.5 in = 1.53

BASE = 0.11/in

SN<sub>3</sub> = 0.11/in x 12 in = 1.32

Σ SN<sub>0</sub> = 3.51

SN<sub>REQ(ASSUMED)</sub> = 2.6

SN<sub>p(SANBORN HEAD)</sub> = 2.83

ASSUMED DESIGN LIFE FOR SANBORN HEAD CALCS WAS 20 YEARS, ASSUMING DESIGN PAVEMENTS ARE EXACTLY 20 YEAR PAVEMENTS FOR INTERPOLATION FOR DEEVENS STANDARD

DEEVENS  $\frac{SN_0}{T_0} = \frac{SN_p}{T_p}$  PROPOSED

DEEVENS  $\frac{3.51}{T_0} = \frac{2.83}{20}$  PROPOSED

$T_0 \approx 24.8$  YEARS