

STRUCTURAL SECTION CALCULATION SHEET

ASPHALT CONCRETE THICKNESS GRAVEL EQUIVALENT METHOD (Revision 2006)

Project Number: _____ Date: _____

Traffic Index (TI) 5.5 Street Name: _____

1 Thickness of AC Required

Aggregate Base "R" Value (Default) 78
 GE for AC (GE=0.0032*TI(100-R)) 0.39
 IF TI GREATER OR EQUAL 8.5 ADD 0.20 SAFETY FACTOR 0.2
 TOTAL GE FOR ASPHALT CONCRETE 0.59

GRAVEL FACTOR (GF) FOR AC:

TI	GF	MIN AC
5.0 & BELOW	2.5	0.25'
5.5 TO 6.0	2.32	0.25', 0.25'
6.5 TO 7.0	2.14	0.30', 0.33
7.5 TO 8.0	2.01	0.36', 0.39
8.5 TO 9.0	1.89	0.43', 0.46
9.5 TO 10.0	1.79	0.49', 0.51
10.5 TO 11.0	1.71	0.55', 0.57
11.5 TO 12.0	1.64	0.62', 0.64

THICKNESS AC=(GE/GF)
 (USE MIN THICKNESS PER SPECIFICATIONS
 SECTION 8.07 OF ORDINANCE 461

GF = 2.32
 = 0.25 AC
Note: If it is less than min. use min thickness
 = 0 AC

2 Thickness of Aggregate Base Required

SOIL "R" Value 50
 GE for AB (GE=0.0032*TI(100-R)) 0.88
 Deduct GE furnished by AC
 GF(AC) x AC Thickness (0.59) 0.00
 Net GE required for AB 0.29 0.88
 GF for Aggregate Base (Default) 1.11
 Thickness of AB required (GE/GF) = 0.26 0.79

Use (0.50' minimum) if your answer is less than minimum

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