PAVEMENT DESIGN CRITERIA

Identification of roadway classification for pavement design.

- Type A Local street with low traffic volume.
- Type B Collector Type streets or any streets expected to become bus routes (Design Year DLT \leq 2500).
- Type C Arterial Type streets all streets expected to carry significant truck traffic (Design Year DLT > 2500).
- A.) Design procedure Type A roadway use greater of:
 - 1. The Standard Minimum Section: 3.5" Asphaltic Pavement
 - 10" Crushed Aggregate Base Course
 - 2. Pavement design based on Section 14-10-5 of the Wisconsin Department of Transportation's Facilities Development Manual. Use serviceability index (Pt) = 2.5, ESAL = 10 18K per day, and the soil support value given the existing field conditions. The Minimum Section is based on the above parameters and a soil support value of 3.5.
- B.) Design Procedure Type B roadway use greater of:
 - 1. The Standard Minimum Section:
 4.25"Asphaltic Pavement
 10" Crushed Aggregate Base Course
 - 2. Pavement design based on Section 14-10-5 of the Wisconsin Department of Transportation's Facilities Development Manual. Use serviceability index (Pt) = 2.5, ESAL = 20 18K per day, and the soil support value given the existing field conditions. The Minimum Section is based on the above parameters and a soil support value of 3.5.
- C.) Design Procedure Type C roadway use greater of:
 - 1. The Standard Minimum Section:
 5.25"Asphaltic Pavement
 10" Crushed Aggregate Base Course
 - 2. Pavement design based on Section 14-10-5 of the Wisconsin Department of Transportation's Facilities Development Manual. Use serviceability index (Pt) = 2.5, and the soil support value given the existing field conditions. The ESAL shall be calculated based on Section 14-1-5.

2007

CITY OF MADISON ENGINEERING DIVISION

PAVEMENT DESIGN CRITERIA

STANDARD DETAIL DRAWING 4.06