Road Pavement Design Specification

1) General
   a) Roads within the City of Perth municipal boundary shall be flexible pavements and shall be designed in accordance with the latest version of the following: "Guide to Pavement Technology Part 2 - Pavement Structural Design" (Austroads 2016) "Engineering Road Note 9 - Procedure for the Design of Flexible Pavements" (MRWA 2013)
   b) Road pavements shall be designed for a minimum design life, with no maintenance required for the first ten years and minimum maintenance required for the design life under the anticipated traffic loading. As shown in MRWA Engineering Road Note 9.
   c) Design of the pavement shall involve consideration of the following five inputs:
      i) Design Traffic Loading
      ii) Sub-Grade Evaluation
      iii) Environmental Impact
      iv) Pavement and Surfacing Material
      v) Construction and Maintenance
   d) Road pavement design shall be carried out by a qualified engineer with appropriate knowledge of pavement design in the local environment.
   e) The pavement design, including all considerations, assumptions, sub-grade test results, calculations, detailed drawings and any other relevant documentation shall be submitted to the City of Perth for endorsement prior to the commencement of construction and/or procurement of materials. Drawings provided shall clearly indicate the structure, material types and thickness of each layer of the proposed pavement and surfacing. Any variation to these requirements may be accepted by the City of Perth in special circumstances.
   f) Rigid pavement design may be considered in special circumstances, through consultation with the City of Perth.

2) Surface, Base Material, Subgrade & Earthworks
   For specification of the road surface and base material refer:
   • MRWA Specification 501 - Earthworks
   • MRWA Specification 302 - Earthworks

3) Asset Management Plans
   In WA, local governments are required to manage all assets as outlined in 'Asset Management - Framework and Guidelines (DGLWA 2011)'. This document outlines what should be included in Asset Management Plans, some of which are listed below:
   • Asset’s financial information
   • Asset review, evaluation plan & asset quantities.
   • Actions required to provide a defined level of service (Road Maintenance Plan)
   • Reference an asset register (Road Register)
   • Reference related City of Perth strategic documents