ENGINEERING POLICY

POLICY NO:	**E.4**
POLICY SUBJECT:	**STREET LIGHTING POLICY**
ADOPTION DATE:	**18 October 2007**
LAST REVIEW	**13 May 2010**

STATEMENT OF INTENT

This policy is to formalise the provision of street lighting within the Shire of Toodyay's subdivisional areas where street lighting is required and areas where powerlines are placed underground. The policy will allow a consistent approach to be applied to the requirements for street lighting.

OBJECTIVES

- To provide effective and efficient street lighting throughout the Shire.
- To provide a mechanism by which street lighting requests and designs can be assessed.

DEFINITIONS

Access Roads – Roads where the main function is to provide access to abutting properties including those used for residential purposes and the vehicle movements per day is less than 3,000.

District Distributor Road A – Arterial roads carrying moderate to heavy volumes from through traffic, together with significant local traffic, including pedestrians, generated by abutting land use activities.

Laneways – Provide access to the side or rear of lots principally for access to garages.

Local Distributor Road B – Roads which carry traffic between the arterial or distributor roads and local roads. Vehicle volumes are moderate to low (3,000 – 6,000 vehicle movements per day).

Pedestrian Access Ways (PAW) – Access ways provided exclusively for pedestrian activity.

Primary Distributor Road – generally roads with full control of access which carry a high volume of traffic (up to 15,000 vehicle movements per day).

POLICY STATEMENT

General provisions

1. All new street lighting within the Shire of Toodyay is to be installed in accordance with the current Australian and New Zealand Standard, as outlined in Attachment 1 to this policy.

2. All street lighting equipment shall be selected from the Western Power range and all poles shall be painted “Heritage Red”.

3. All luminaires shall be “Parkville” or “Bourke Hill” and shall be painted “Heritage Red”.

Street Lighting within Subdivisions

4. Where subdivisions require the installation of street lighting, lighting proposals shall be submitted to the Shire of Toodyay for review and be subject to Shire approval; and lighting shall be consistent throughout the subdivision.

5. All lighting equipment shall be consistent with the provisions of this policy.

Lighting within Public Open Spaces

6. The minimum pole height for lighting within Public Open Spaces shall be 4.5m except for the Bega 8200 luminaire, or equivalent luminaire that may be mounted at 3.5m.

7. Bollard lighting will not be allowed.

8. Any uplighting shall use stainless steel in ground uplights complying with IEC 60598-2 Category C and with 75^{o}C maximum surface temperature (at 40^{o}C ambient).

9. Electricity supply shall be controlled from an unmetered supply pit or, from any pump control panel and lighting shall be controlled by a seven day programmable time switch.

Reviewed Council Meeting 15 November 2007
Reviewed Council Meeting 21 May 2009
Reviewed Council Meeting 13 May 2010

Attachment No 1

Public lighting shall be installed in accordance with the current AS/NZS 1158 using the following table for guidance:

ROAD/AREA	AS/NZS1158 Category	Typical Equipment & Geometry (lamp ∂/height/spacing/width)
Primary and District Distributor A Roads (>15 000vpd) •	V3	250 W HPS/10.5 m/55 m/2 lanes-⊆
		250 W HPS/9 m/40 m/2 lanes-∈
District Distributor B Roads, (6 000-15 000vpd)	V5	150 W HPS/10.5 m/55 m/2 lanes-⊆
		150 W HPS/9 m/40 m/2 lanes-∈
Local Distributor Roads (3 000 – 6 000 v.p.d.)	P3	70 W MH/6.5 m/60 m/20 m road reserve-⊆
		70 W MH/7.86 m/40m/20 m road reserve-∈
Access Roads (<3 000 v.p.d)	P4	70 W MH /6.5 m/60 m/20 m road reserve-⊆
		70 W MH/7.86 m/80.5 m/20m road reserve-∈
PAW's, Laneways (<300 v.p.d.) ÷	P4	70 W MH/5.2 m/40 m/3-5 m laneway
	P5	42 W CF/5.2 m/40 m/3-5 m laneway
Intersections: Distributor Road Access Road Isolated intersections & bends	V3/V5	250 W HPS/10.5 m-⊆
	P3	70 W MH/6.5 m-⊆
	P4	70 W MH/6.5 m-⊆
Local Area Traffic Management Devices	Clause 3.2.6 of AS1158.3.1	3.5 lux, or 25% spacing
Car Parks low use/risk	P11c	42 W CF, 70 W MH or 70 W HPS/6 m
Car Parks medium use/risk	P11b white light	70 W MH/6 m/15 m X 17 m
Car Parks high use/risk	P11a white light	150 W MH/6 m/15 m X 17 m
Car Parks (disabled bays)	P12 white light	150 W MH/6 m
Pathways in Passive Open Spaces	P4	70 W MH/6.5 m/60 m, 42 W CFL/4.5 m/30 m, or 70 W MH Bega 8200/3.5 m

Notes:

⊇ HPS = high pressure sodium, MH = metal halide, MV = mercury vapour, CF = compact fluorescent.
⊄ Pedestrian/vehicle conflict and presence of heavy vehicles also influences selection of V3/V5.
⊂ Busy PAW's P4, quiet PAW's P5.
⊆ Underground power
∈ Overhead power

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