



Lighting and Electrical

The City of Adelaide has a unique urban design legacy with a distinctive plan which has its own historic character and identity.

The City of Adelaide wished to complement this by having a vibrant and functional night time environment for all users of the public realm. The streets and pathways are to be well lit for pedestrian and vehicular movement. The City of Adelaide wishes to enhance the unique, and not so unique (in their unlit form), aspects of built form around the City, through the use of light.

Some lighting policies have already been established and embodied in the document “Streets, Squares, and Park Lands”.

Further to this, the City of Adelaide is in the process of establishing a Lighting Strategy that will suit the City of Adelaide.

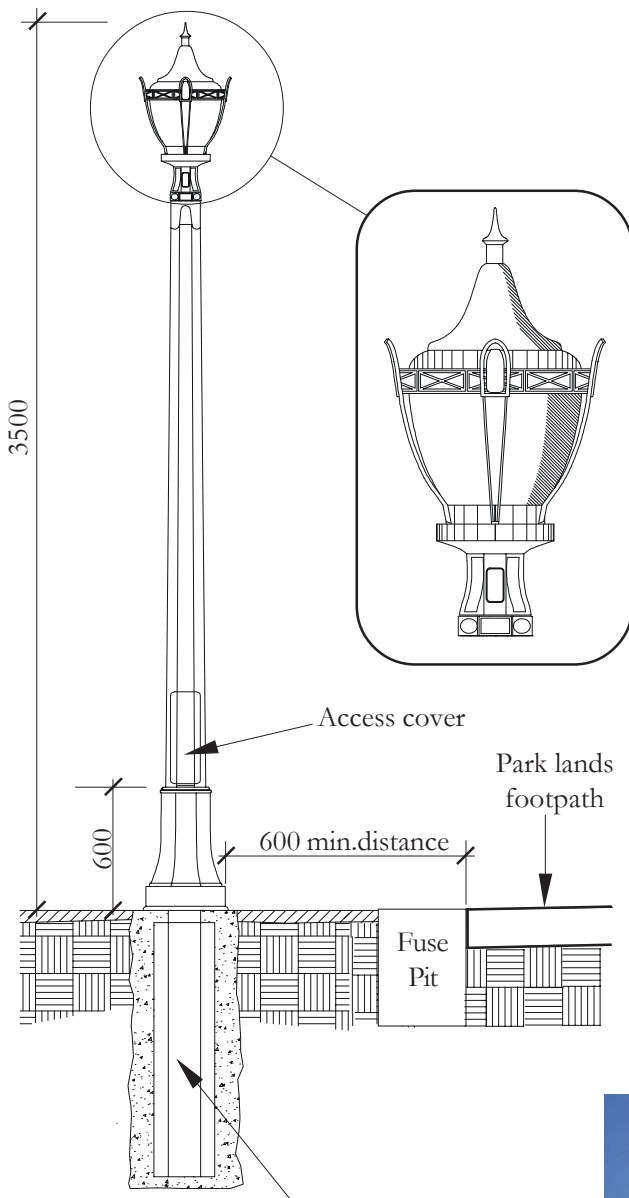
Outcomes from this strategy that have been identified, so far, are as follows:

- A “white” light policy with the use of Metal Halide or Mercury Vapour lamps.
- The use of cut-off type (flat glass) street light luminaires, and minimal upward light from post top luminaires.
- The addition of under verandah lighting where a verandah may obscure the footpath lighting from the street light luminaires.
- The current suite of post top luminaires will remain until possible changes are suggested as an outcome of the Lighting Strategy.
- The establishment of a lighting pole suite distinctive to the City of Adelaide is currently being assessed.
- To facilitate and coordinate the decorative lighting of structures throughout the City these built forms can be in the form of buildings, bridges, structures, artworks, etc.

The City of Adelaide has a long term plan to underground the electrical reticulation throughout the City. Part of this process is to replace the existing poles and luminaires. Vehicular and pedestrian lighting is to be designed in accordance with current Australian Standards.

To meet the above objectives, the City of Adelaide has established its own lighting and electrical standards.

Updates, including this summary document, will occur over time.



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

The 'Adelaide' light fitting is used in selected historic Park Lands precincts, to celebrate 'micro gateways' at entrances to heritage precincts, bridges or structures. Visually, the luminaire integrates well with heritage buildings and structures and should be limited to highlight heritage features.

Supplier:

Subject to supply contract

Materials:

Wrought iron, steel post, cast aluminium base

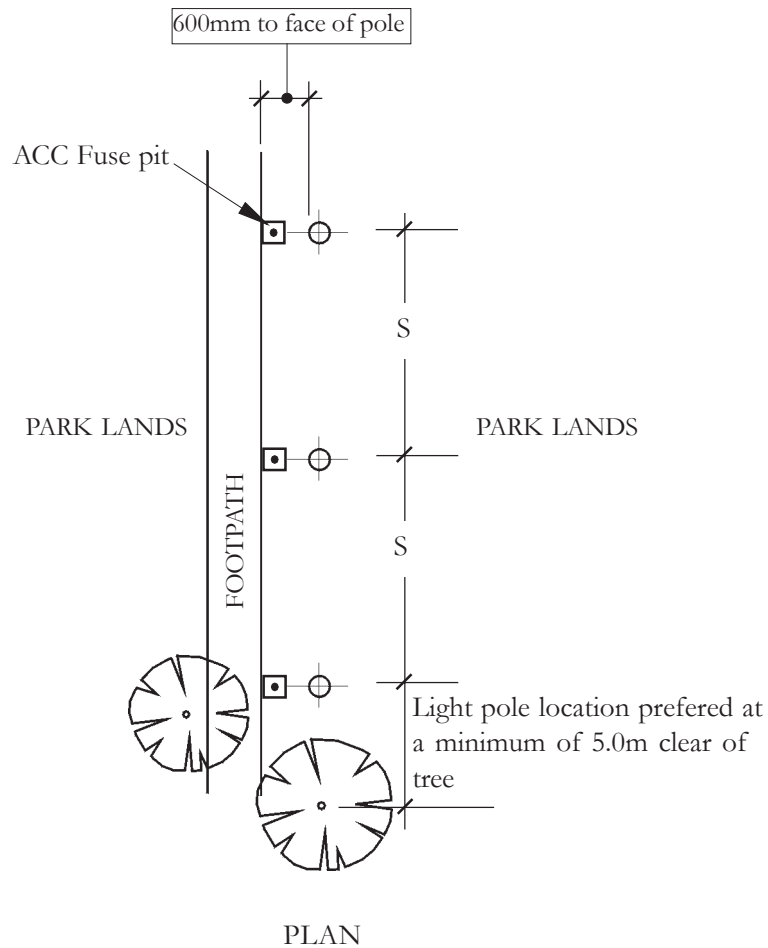
Finish:

Two pack polyurethane wet coat
Colour: Dulux Oyster No. 35858
or equivalent

Maintenance:

Retouch paint, replace lamp every two years or as necessary. Inspect electrical wiring/components at six yearly intervals. Inspect columns for corrosion/damage at six yearly intervals. Replace diffusers every fifteen years or as required.



DESIGN NOTES*Lighting*

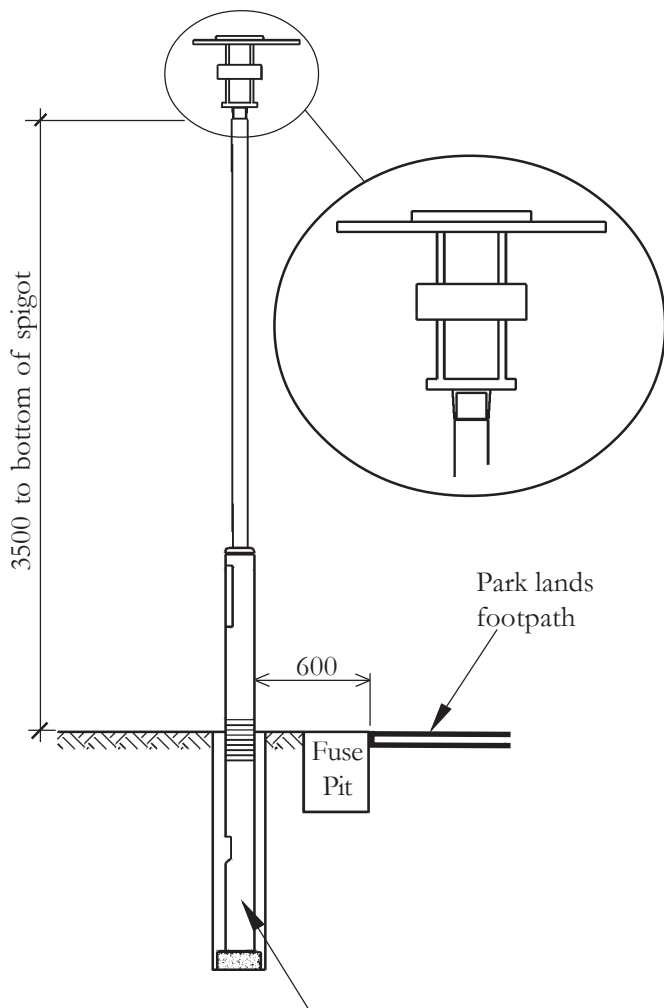
Overall height 3.5metres

Typical Maximum Spacing (S)*	Lamp Type	AS1158.3.1 'P' Classification
tba	100W MH	P1, P8
tba	80W MV	P2
tba	80W MV	P3
tba	100W MH	P6
tba	100W MH	P7

* Typical spacing based on 3.5metre high and 2metre pathway width. For any other variations, lighting design to be done in accordance with AS1158 Roadway Lighting Standards.

Not to be used for any other 'P' category

SPACING OF LIGHTS IN PARK LANDS



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

This light fitting is used where additional pedestrian lighting is required on the City's parklands.

The lighting poles have a typical pole height of 3.5 metres. The pole itself is comprised of painted galvanised steel.

The lighting fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the lights is dependant on such elements as trees, and the amount of additional lighting required.

Manufacturer:

Lighting fixture: Louis Poulsen

Mini Orbitor or equivalent

Pole: Vicpole or equivalent

Materials:

Lighting fixture:

Aluminium & Polycarbonate

Pole: Painted Galvanised steel pole

Finish:

Two pack polyurethane wet coat

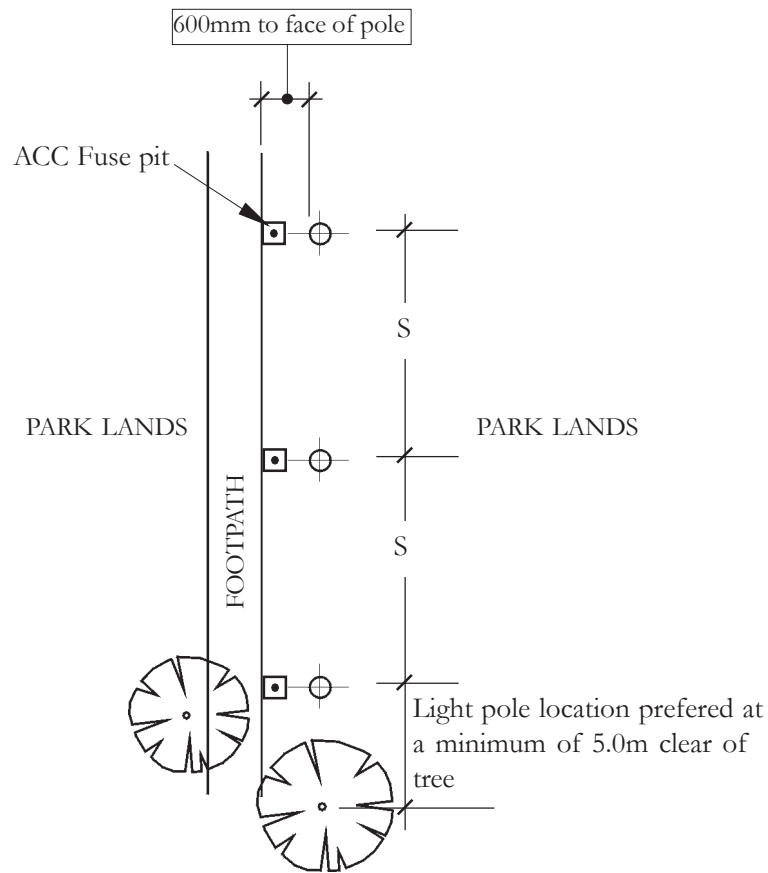
Colour: Dulux Notre Dame, No. 36672 or equivalent.

Maintenance:

Retouch paint, replace lamp every two years or as necessary.

Inspect electrical wiring/components at six yearly intervals or as required. Inspect columns for corrosion/damage at six yearly intervals. Replace diffusers every fifteen years or as required.



DESIGN NOTES*Lighting*

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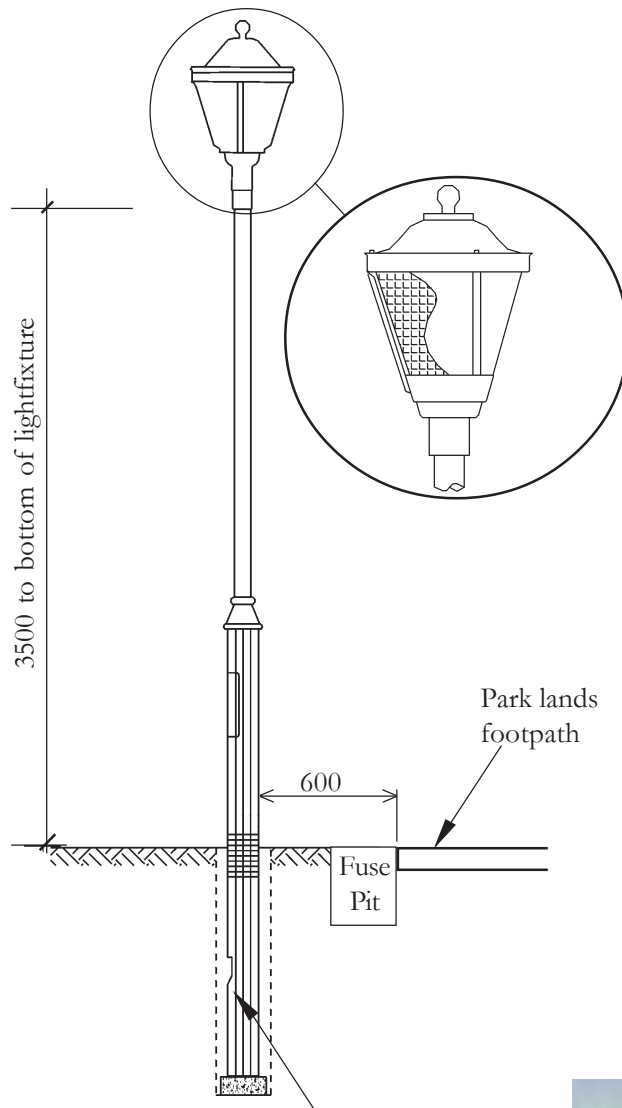
Overall height 3.5metres

Typical Maximum Spacing (S)*	Lamp Type	AS1158.3.1 'P' Classification
tba	100W MH	P1, P8
tba	80W MV	P2
tba	80W MV	P3
tba	100W MH	P6
tba	100W MH	P7

* Typical spacing based on 3.5metre high and 2metre pathway width. For any other variations, lighting design to be done in accordance with AS1158 Roadway Lighting Standards.

Not to be used for any other 'P' category

SPACING OF LIGHTS IN PARK LANDS



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

Manufacturer:

Lighting fixture: Unique Lighting Solutions RSL 350 or equivalent.

Pole: Vicpole or equivalent.

Materials:

Lighting fixture: Aluminium or DR Acrylic

Pole: Painted Galvanised steel pole

Finish:

Two pack polyurethane wet coat

Colour: Dulux Gloss Black, No. 32694 or equivalent.

Maintenance:

Retouch paint, replace lamp every two years or as necessary. Inspect electrical wiring/components at six yearly intervals or as required. Inspect columns for corrosion/damage at six yearly intervals. Replace diffusers every fifteen years or as required.

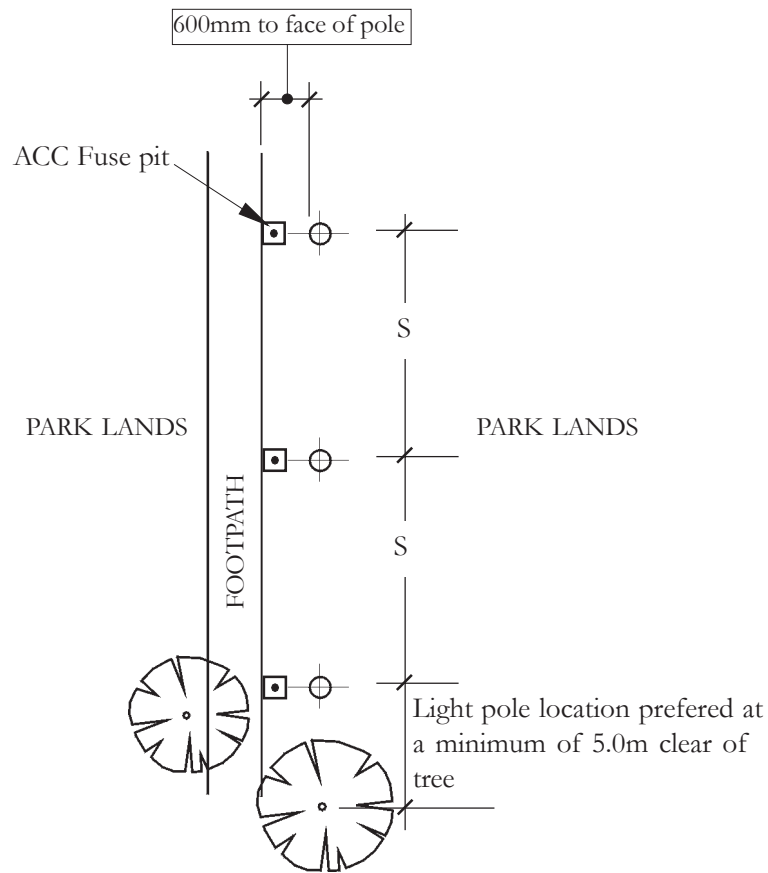
The standard Heritage light fitting is used where additional pedestrian lighting is required on the City's parklands.

The lighting poles have a typical overall height of 3.5 metres. The pole is manufactured from painted galvanised steel.

The lighting fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the lights is dependant on such elements as the night time usage of the parklands, pedestrian and bicycle volumes.



DESIGN NOTES*Lighting*

PLAN

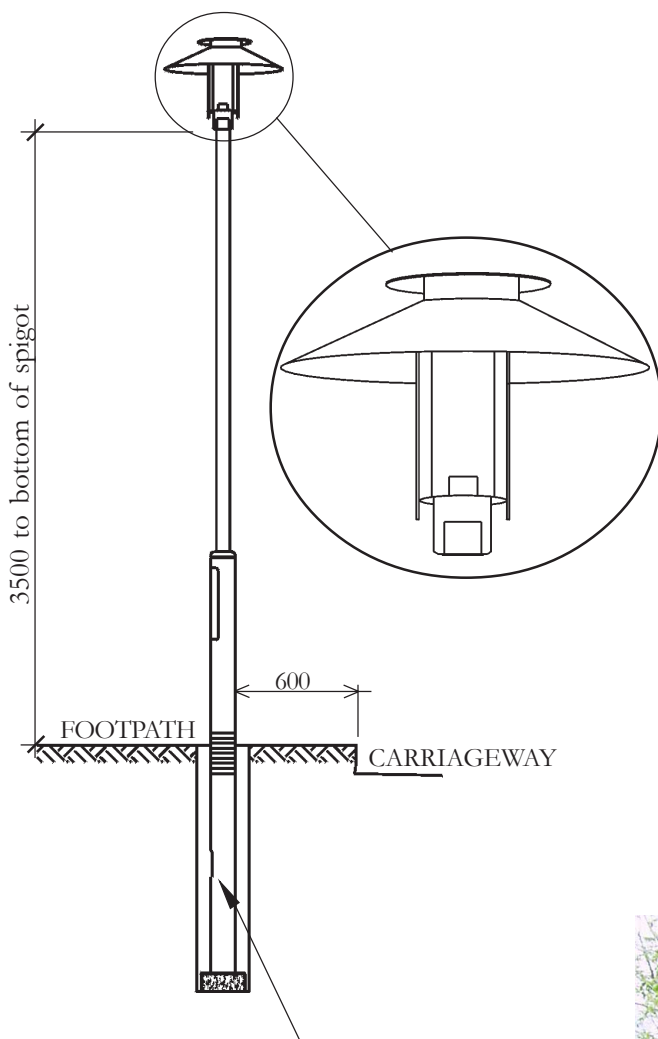
Overall height 3.5metres

Typical Maximum Spacing (S)*	Lamp Type	AS1158.3.1 'P' Classification
tba	100W MH	P1, P8
tba	80W MV	P2
tba	80W MV	P3
tba	100W MH	P6
tba	100W MH	P7

* Typical spacing based on 3.5metre high and 2metre pathway width. For any other variations, lighting design to be done in accordance with AS1158 Roadway Lighting Standards.

Not to be used for any other 'P' category

SPACING OF LIGHTS IN PARK LANDS



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

This light fitting is used where additional pedestrian lighting is required on the City's streetscapes.

The lighting poles have a typical overall height of 3.5 metres. The pole itself is comprised of painted galvanised steel.

The lighting fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the lights is dependant on such elements as trees, and the amount of additional lighting required.

Manufacturer:

Lighting fixture:

Selux Saturn2 or equivalent

Pole: Vicpole or equivalent

Materials:

Lighting fixture:

Aluminium and Polycarbonate

Pole: Painted Galvanised steel pole

Finish:

Two pack polyurethane wet coat

Colour: Dulux Notre Dame, No. 36672 or equivalent.

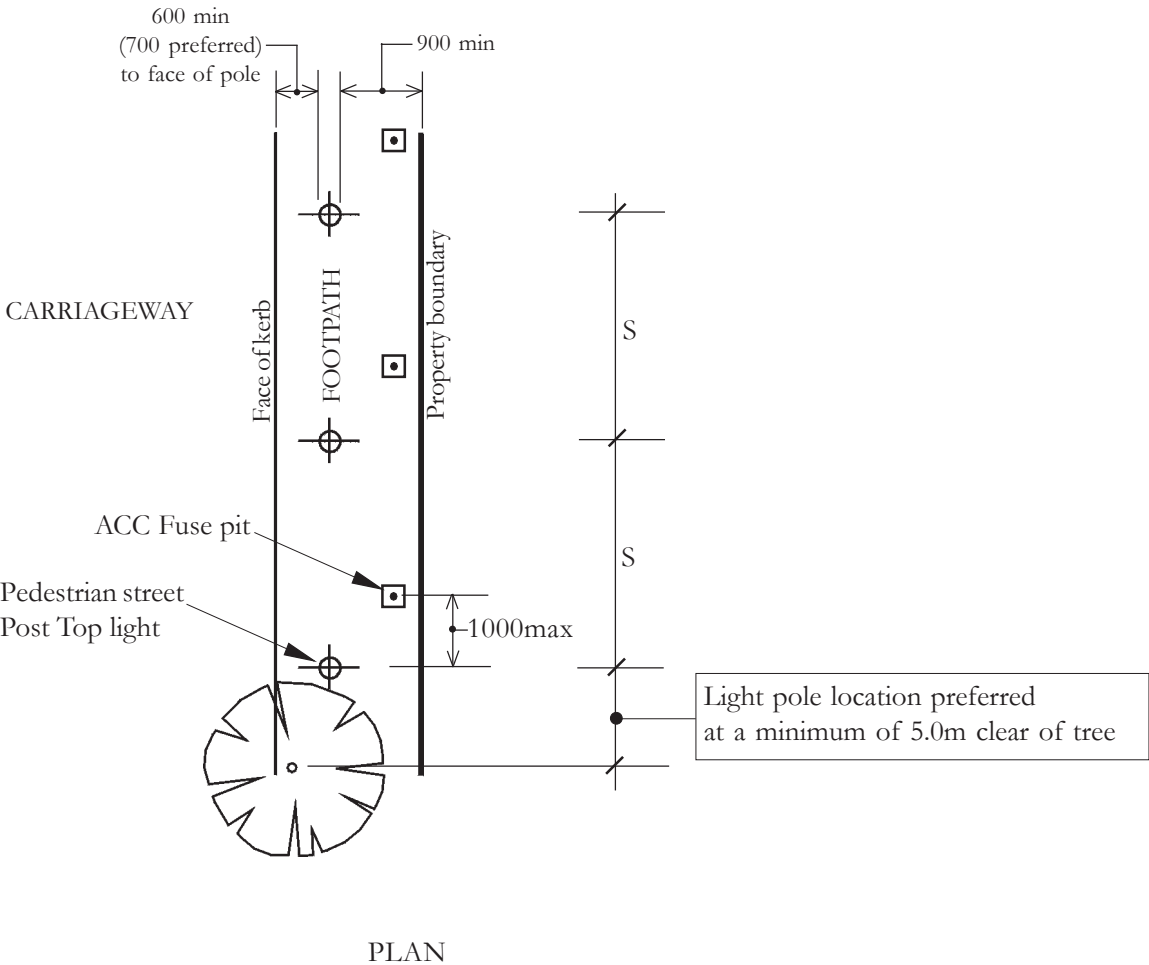
Maintenance:

Retouch paint, replace lamp every two years or as necessary. Inspect electrical wiring/components at six yearly intervals or as required. Inspect columns for corrosion/damage at six yearly intervals. Replace diffusers every fifteen years or as required.



DESIGN NOTES

Lighting



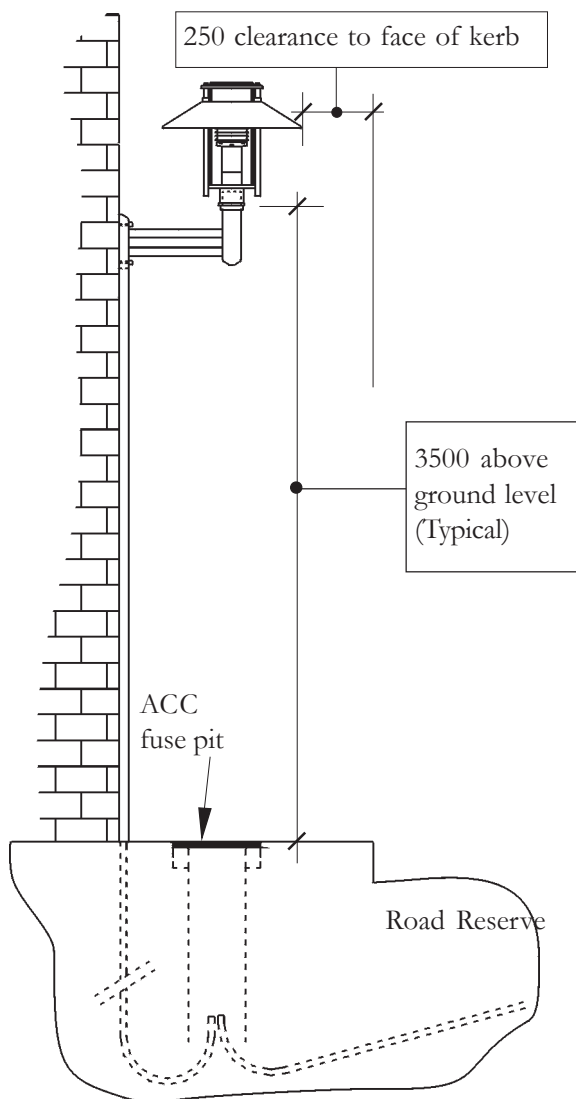
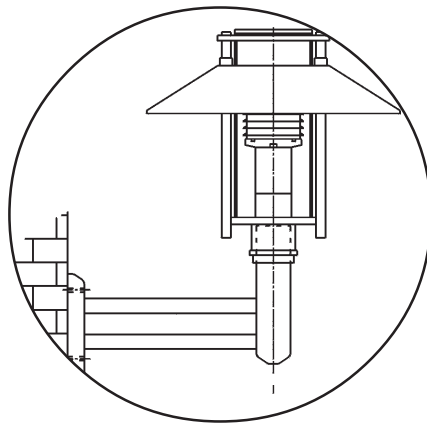
* Typical spacing based on 3.5metre high and 2metre pathway width. For any other variations, lighting design to be done in accordance with AS1158 Roadway Lighting Standards.

Overall height 3.5metres

Typical Maximum Spacing (S)*	Lamp Type	AS1158.3.1 'P' Classification
tba	100W MH	P1, P8
tba	80W MV	P2
tba	80W MV	P3
tba	100W MH	P6
tba	100W MH	P7

Not to be used for any other 'P' category

SPACING OF LIGHTS IN STREETS



This wall mounted light fitting is used where additional pedestrian lighting is required and it is impractical to use a lighting pole.

The light fittings are typically mounted at a height of 3.5 metres, where 250mm clearance is achievable, otherwise mount at 5.0metres.

The lighting fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the lights is dependant on such elements as the pedestrian and criminal activities in the area.

Manufacturer:

Lighting fixture:

Selux Saturn2 or equivalent

Wall bracket: Thorn or equivalent

Materials:

Lighting fixture:

Aluminium and Polycarbonate

Wall bracket: Painted Galvanised steel pipe

Finish:

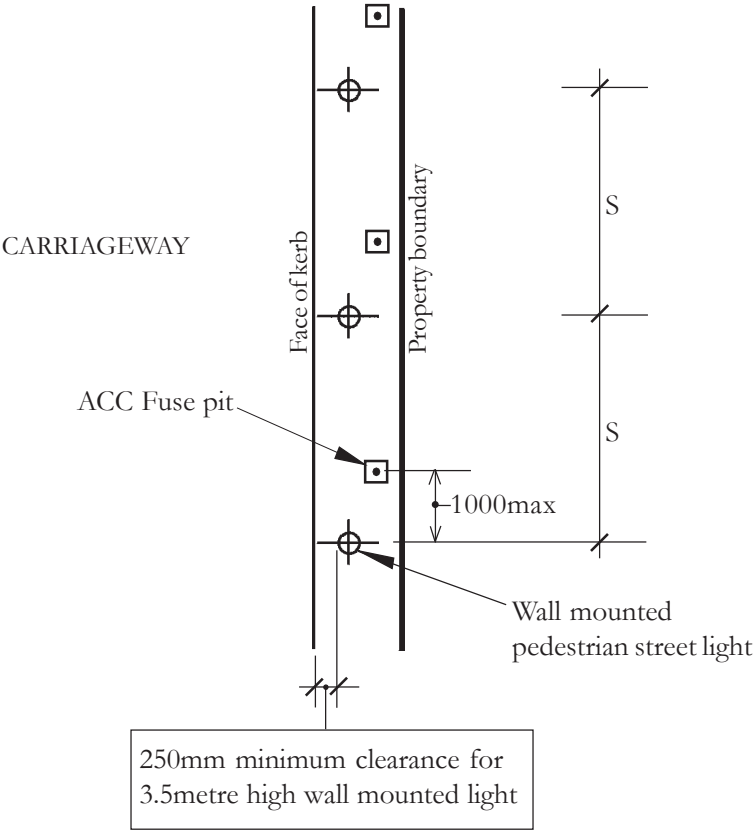
Two pack polyurethane wet coat

Colour: to suit environment

Maintenance:

Retouch paint, replace lamp every two years or as necessary. Inspect electrical wiring/ components at six yearly intervals or as required. Inspect columns for corrosion/ damage at six yearly intervals. Replace diffusers every fifteen years or as required.





PLAN

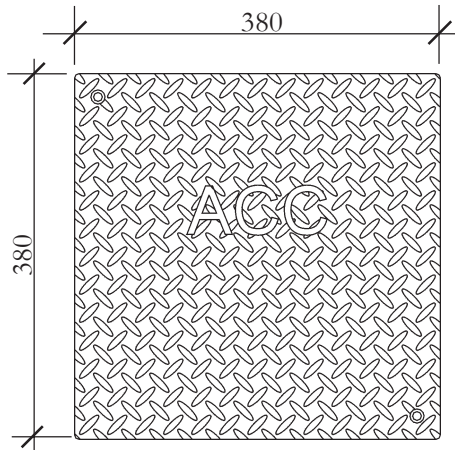
Overall height 3.5metres

* Typical spacing based on 3.5metre high and 2metre pedestrian thoroughfare. For any other variations, lighting design to be done in accordance with AS1158 Roadway Lighting Standards.

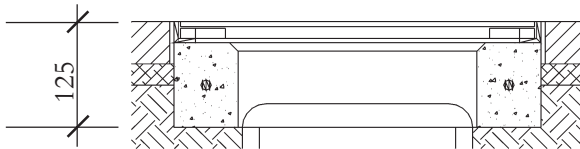
Maximum Spacing (S)*	Lamp Type	AS 1158.3.1 'P' Classification
tba	100W MH	P1, P8
tba	80W MV	P2
tba	80W MV	P3
tba	100W MH	P6
tba	100W MH	P7

Not to be used for any other 'P' category

SPACING OF LIGHTS IN STREETS



PLAN



SECTION

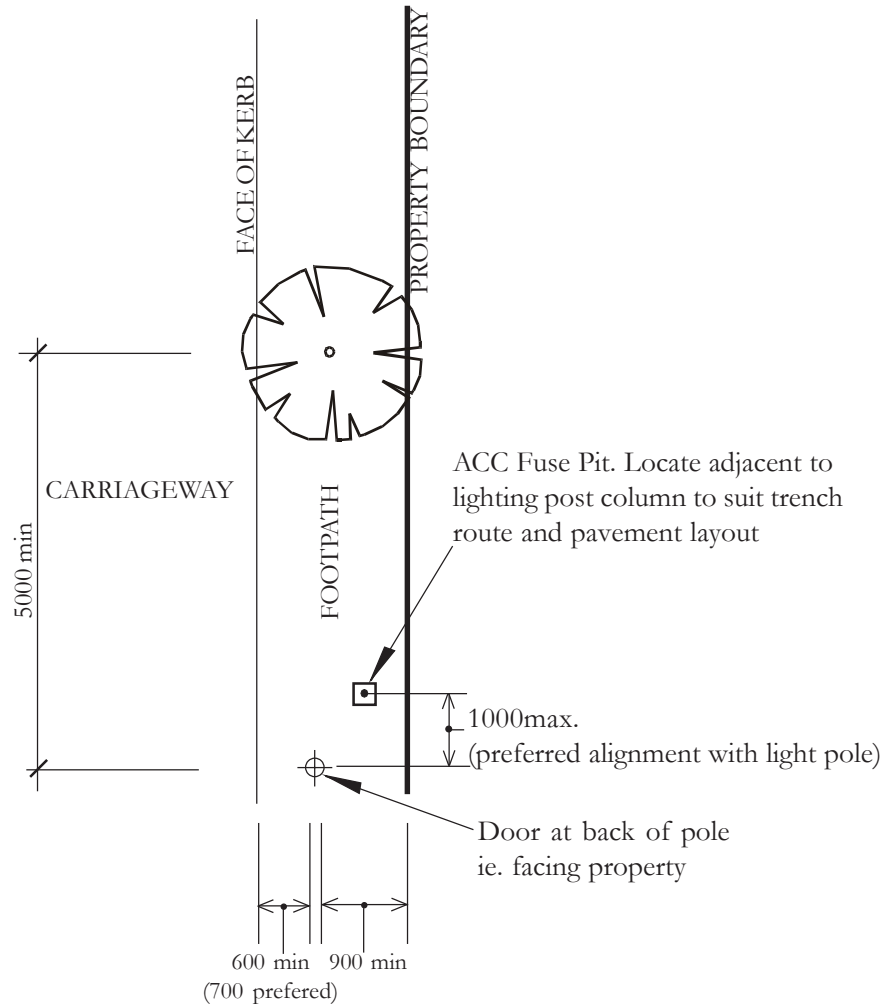
The cover is always associated with an underground fuse pit or underground switchboard.

The cover identified by ACC lettering, laser cut onto the chequer plate.

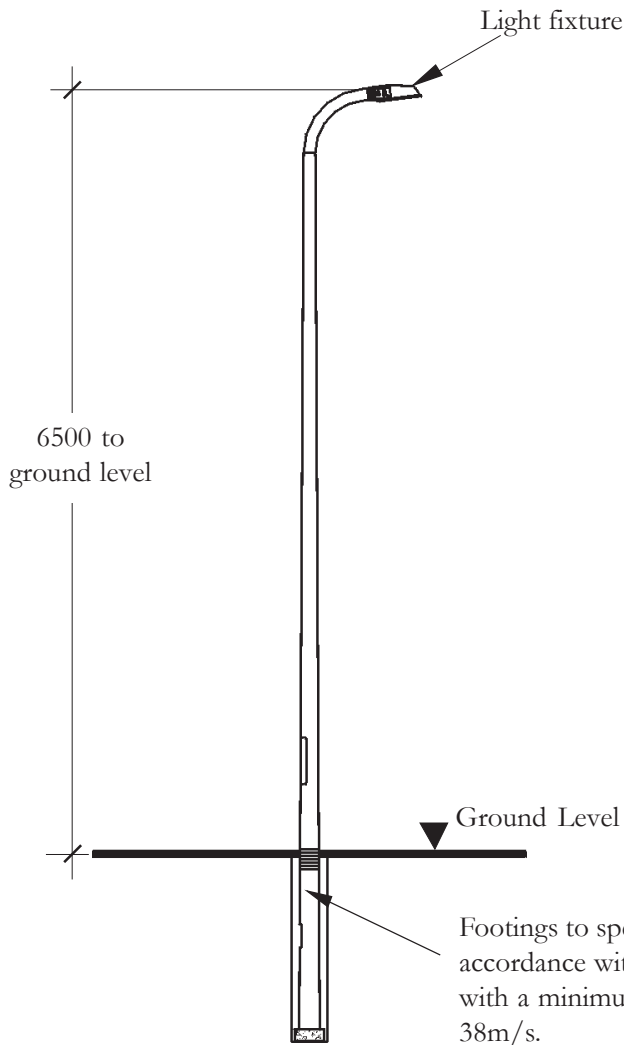
The cover has counter sunk holes in opposite corners to accommodate counter sunk slotted head screws to eliminate trip hazards to pedestrians.

The cover is fixed down by screws to minimise the risk of removal other than by City of Adelaide staff.





LOCATION OF PIT COVER/PIT IN RELATION TO THE LIGHTING POST/COLUMN



ELEVATION

Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

Manufacturer:

Lighting fixture:

Sylvania Urban Aero or equivalent

Lighting column: various

Materials:

Lighting fixture:

Aluminium body and flat glass

Pole:

Round tapered Galvanised steel

Maintenance:

Replace lamp at two yearly intervals or as required. Inspect electrical wiring/ components at six yearly intervals.

Inspect columns for corrosion/damage at six yearly intervals.

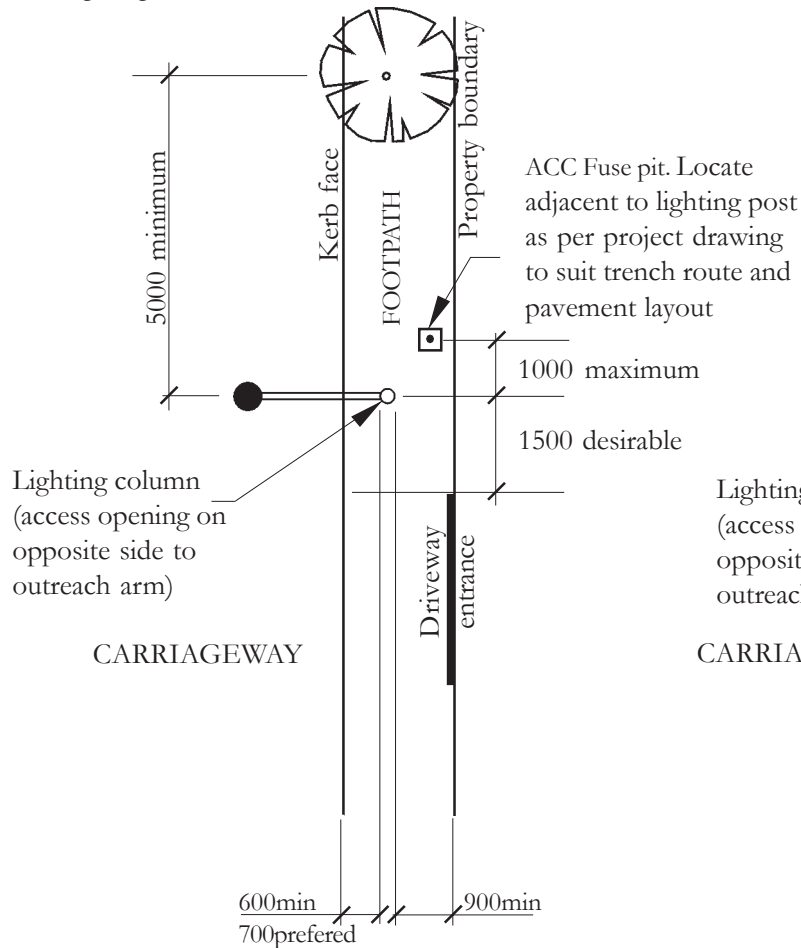
The 6.5 metre column and light fixture are a general purpose combination for the lighting of residential and minor roads, laneways and bicycle tracks.

The column may also be used to support street signs, traffic and/or pedestrian activated signal lights.

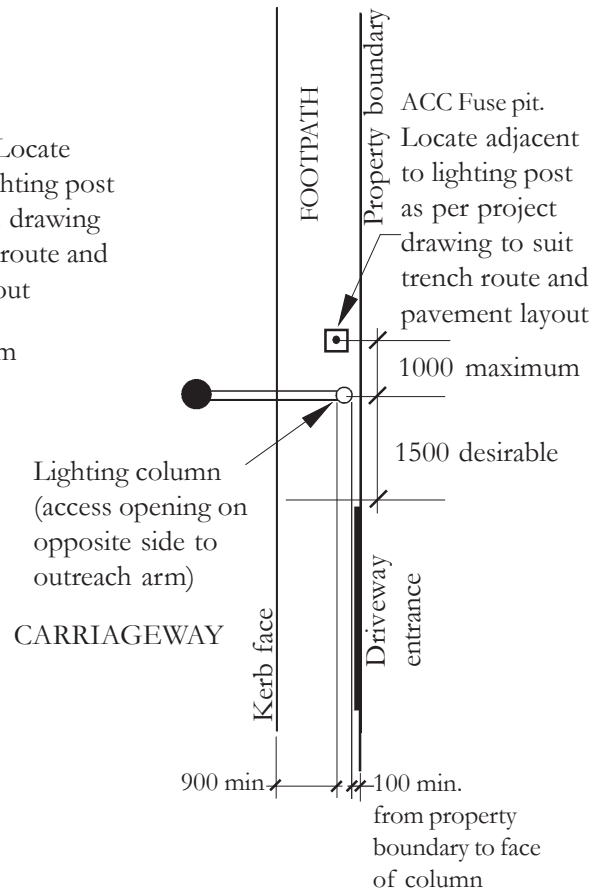
The light fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the lights in the area is dependant on such elements as the pedestrian, cycle and vehicular traffic and the other activities in the area.

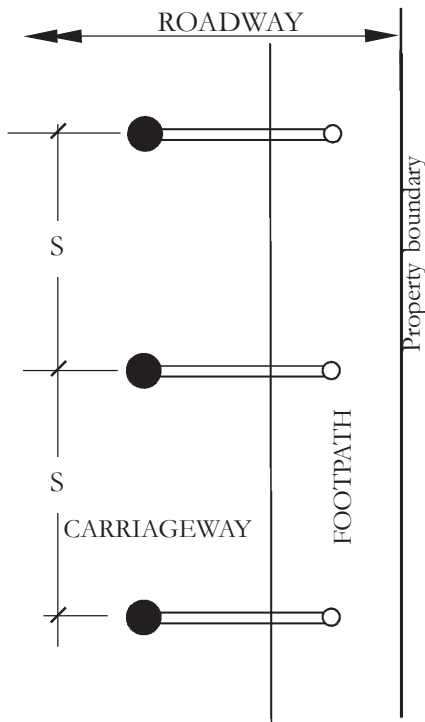


DESIGN NOTES*Lighting*

LOCATION OF POLE IN
TYPICAL FOOTPATH



LOCATION OF POLE IN
NARROW FOOTPATH

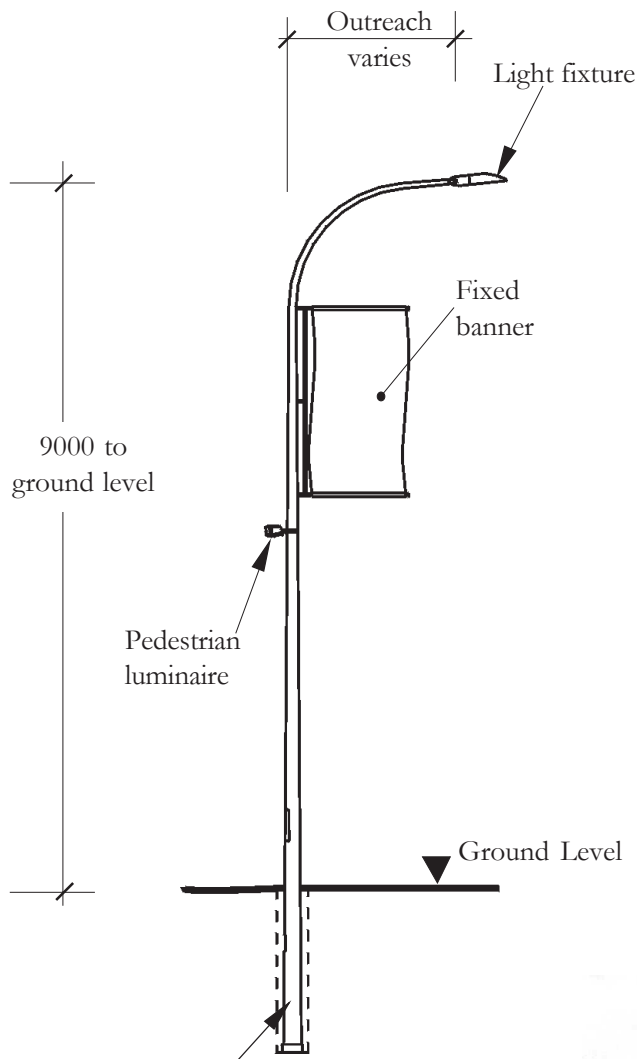
**SPACING OF LIGHTS IN STREETS**

Overall height 6.5metres

Maximum Spacing (S)*	Lamp Type	Street Lighting Category 'P' & 'V' Classification
t b a	1 0 0 W M H	V 5
t b a	1 0 0 W M H	P 1 , P 8
t b a	8 0 W M V	P 2
t b a	8 0 W M V	P 3
t b a	1 0 0 W M H	P 6
t b a	1 0 0 W M H	P 7

Not to be used for any other 'P' & 'V' category

* Typical spacing (S) based on 6.5metre high, zero set back and 7metre roadway width. For any other set backs and roadway width variations, lighting design to be done in accordance with AS1158 Roadway Lighting Standards.



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

The 9.0 metre column and light fixture are a general purpose combination for the lighting of main roads

The column is available with 2.0 metre, 3.0 metre and 4.5 metre outreach arms for maximum versatility.

The column may also be used to support street signs, pedestrian light fixture on rear of pole, banners, traffic and/or pedestrian activated signal lights.

The light fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the light fixtures in the area is dependant on such elements as the night time pedestrian, cycle and vehicular traffic volumes.

Manufacturer:

Lighting fixture:

Rexel Optispan Aero or equivalent

Lighting column: Taperline, Polo or equivalent.

Materials:

Lighting fixture:

Diecast Aluminium and flat glass

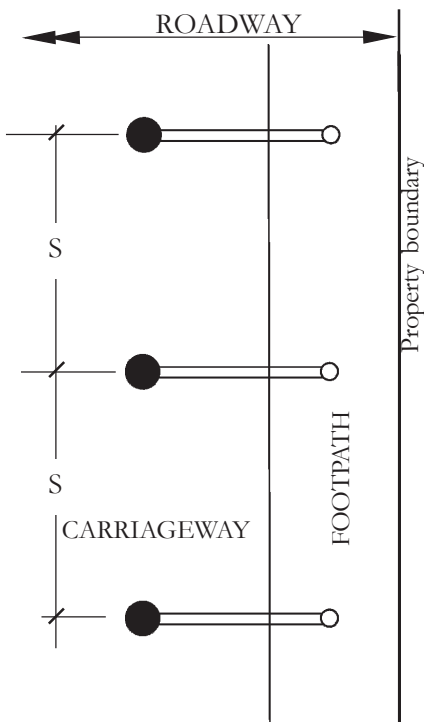
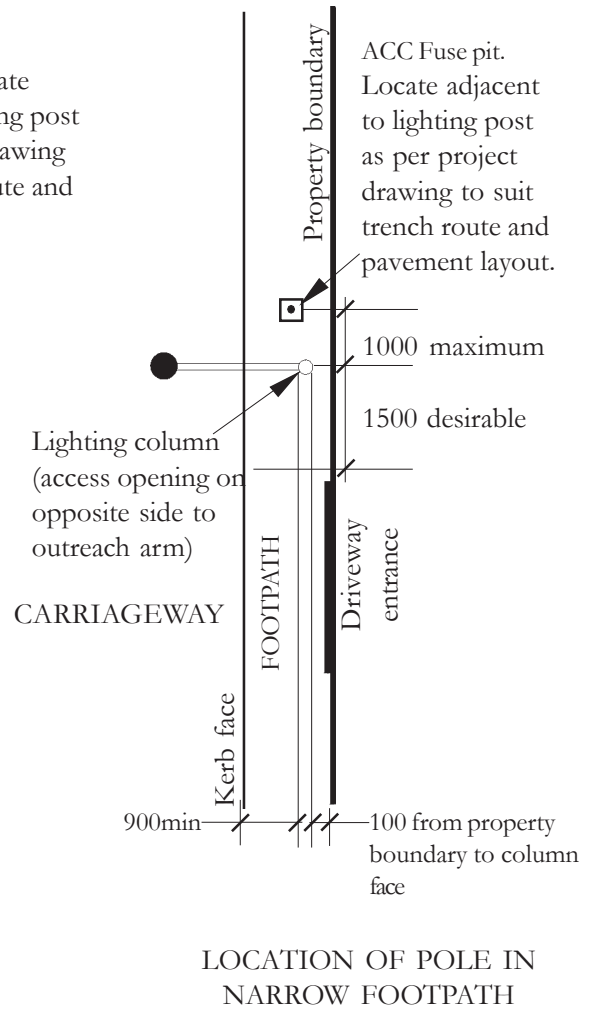
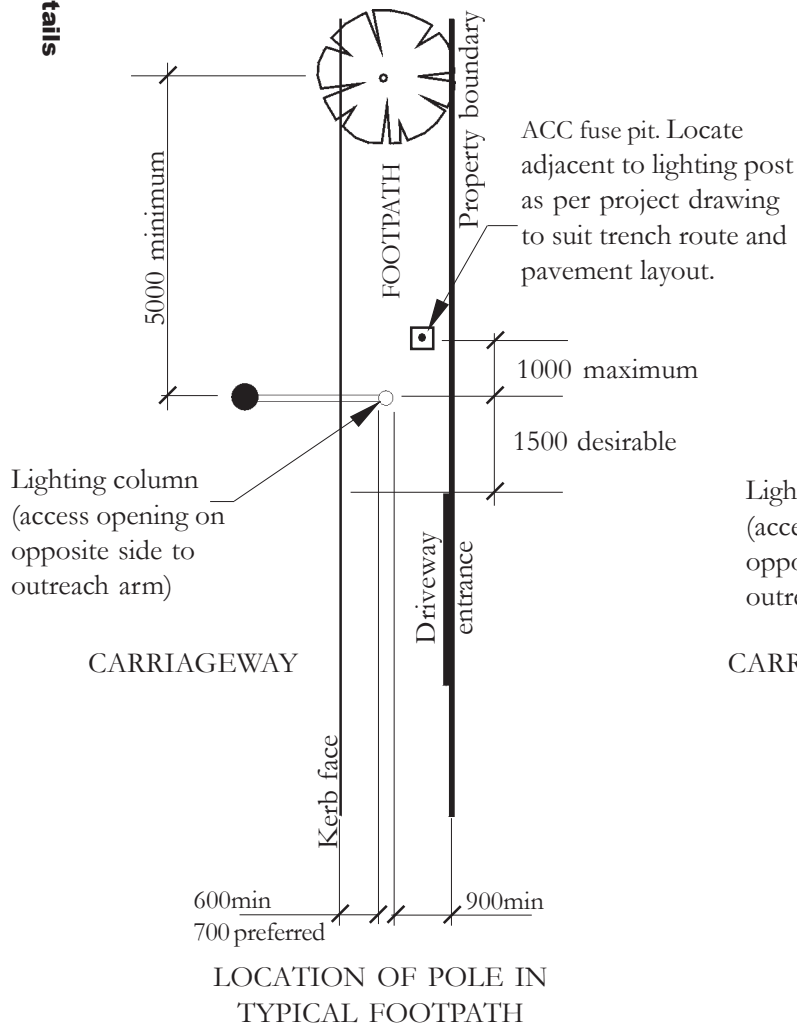
Pole:

Round tapered Galvanised steel

Maintenance:

Replace lamp at three yearly intervals or as required. Inspect electrical wiring/components at six yearly intervals or as required. Inspect poles for corrosion/damage at six yearly intervals.



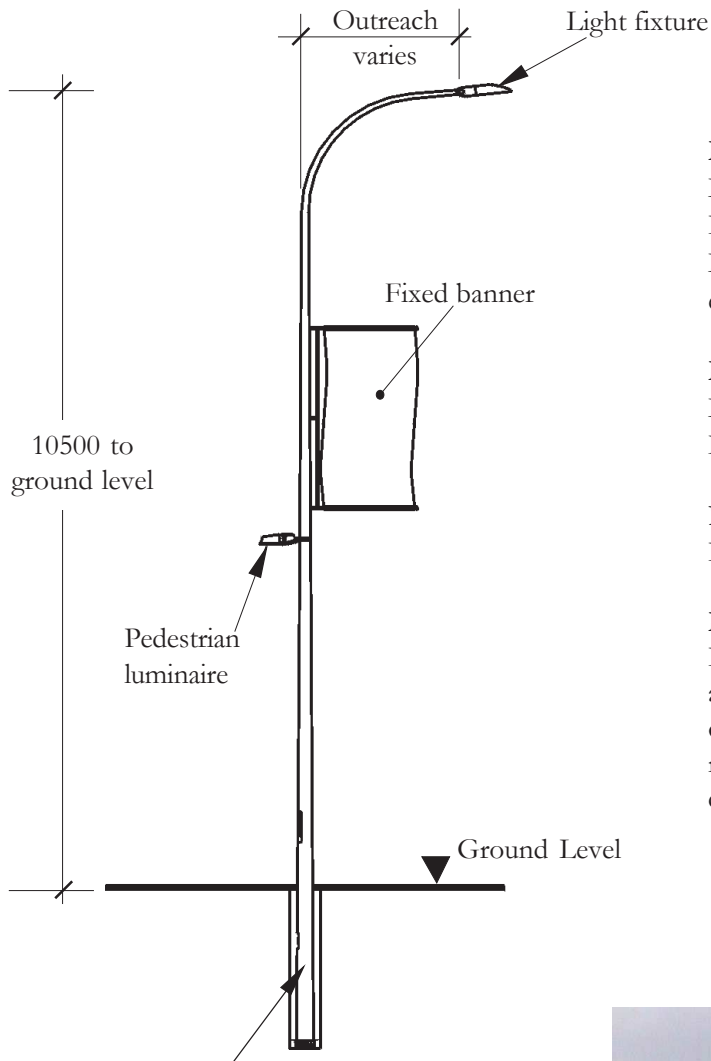
DESIGN NOTES*Lighting***SPACING OF LIGHTS IN STREETS**

Overall height 9.0metres

Spacing (S) to be calculated in accordance with AS1158

Roadway Lighting Standards

Lamp Type	Street Lighting Category Classification
250W MH	V 1
150/250W MH	V 3
100/150W MH	V 5



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

The 10.5 metre column and light fixture are a general purpose combination for the lighting of main roads

The column is available with 2.0 metre, 3.0 metre and 4.5 metre outreach arms for maximum versatility.

The column may also be used to support street signs, pedestrian light fixture on rear of pole, banners, traffic and/or pedestrian activated signal lights.

The light fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the light fixtures in the area is dependant on such elements as the night time pedestrian, cycle and vehicular traffic volumes.

Manufacturer:

Lighting fixture:

Rexel Optispan Aero or equivalent

Lighting column: Taperline, Polo or equivalent

Materials:

Lighting fixture:

Diecast Aluminium and flat glass

Pole:

Round tapered Galvanised steel

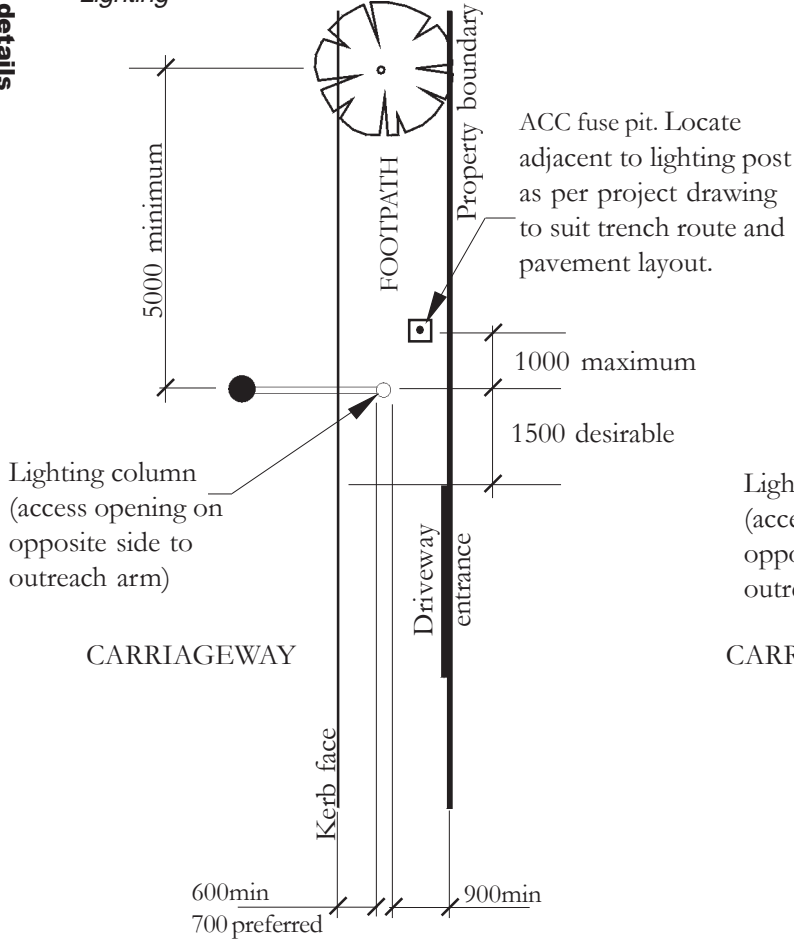
Maintenance:

Replace lamp at three yearly intervals or as required. Inspect electrical wiring/ components at six yearly intervals or as required. Inspect poles for corrosion/ damage at six yearly intervals.

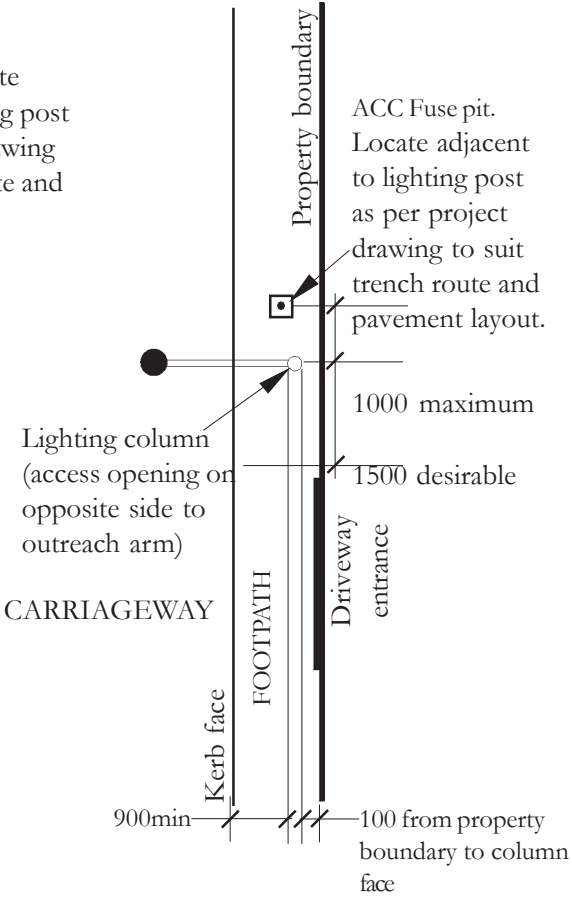


DESIGN NOTES

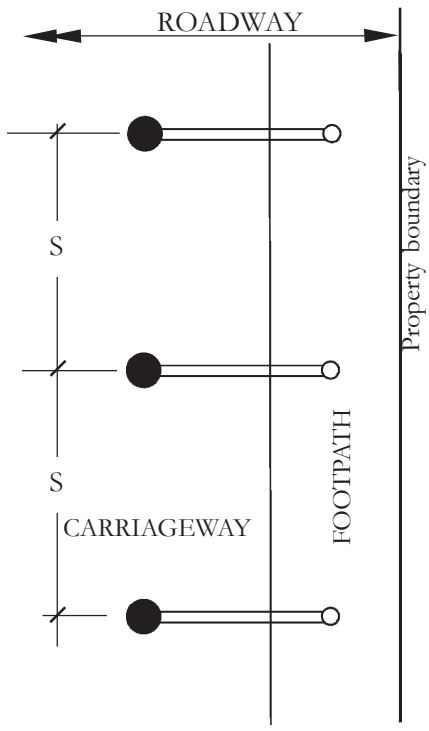
Lighting



LOCATION OF POLE IN
TYPICAL FOOTPATH



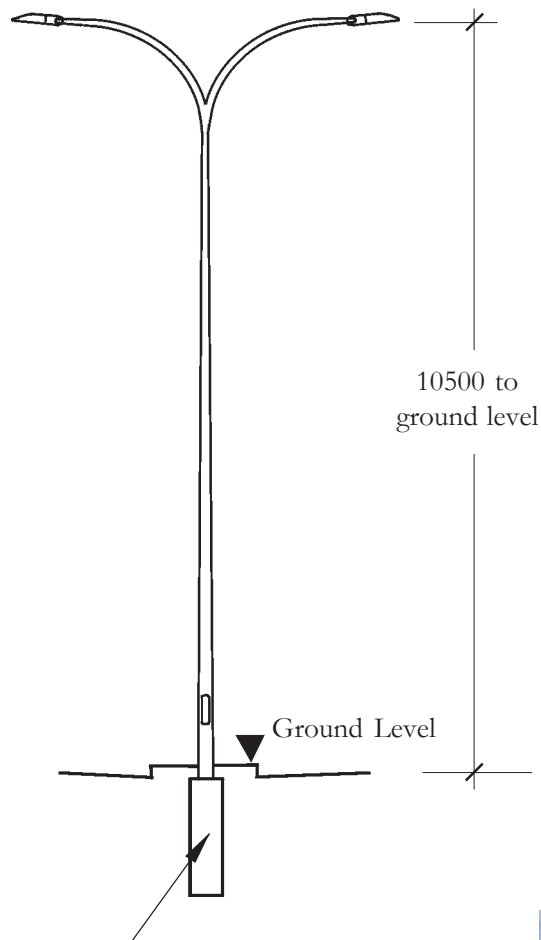
LOCATION OF POLE IN
NARROW FOOTPATH



Overall height 10.5metres
Spacing (S) to be calculated in accordance with AS1158
Roadway Lighting Standards

Lamp Type	Street Lighting Category Classification
250W MH	V 1
150/250W MH	V 3
100/150W MH	V 5

SPACING OF LIGHTS IN STREETS



Footings to specification as in construction drawings. Design pole in accordance with AS1170.2 'Wind Loads' using Terrain Category 2 with a minimum basic wind speed for serviceability limit state of 38m/s.

The 10.5 metre double outreach column and light fixture are a general purpose combination for the lighting of main roads with a large central median. It is particularly useful where large established trees adorn external road reserve areas.

The column is available with 2.0 metre, 3.0 metre and 4.5 metre outreach arms for maximum versatility.

The column's impact absorbing properties increases public safety.

The light fixture should provide a high level of colour rendition to the surrounding area.

Spacing of the light fixtures in the area is dependant on such elements as the night time pedestrian, cycle and vehicular traffic volumes.

Manufacturer:

Lighting fixture:

Rexel Optispan Aero or equivalent

Lighting column: Taperline, Polo or equivalent

Materials:

Lighting fixture:

Diecast Aluminium and flat glass

Finish:

Galvanised

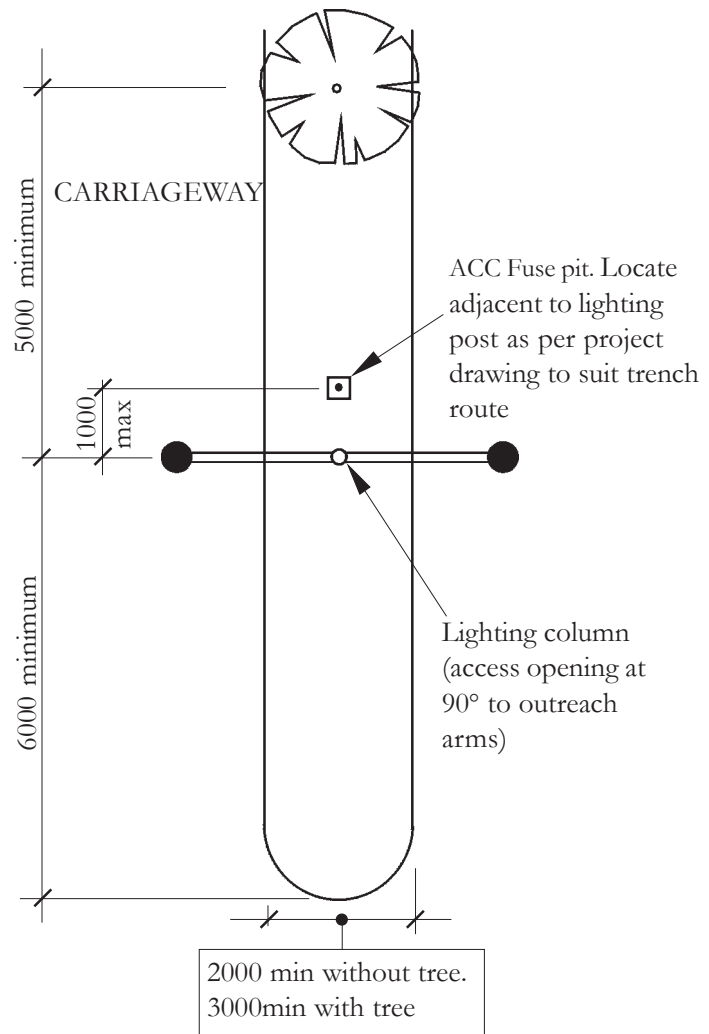
Maintenance:

Replace lamp at three yearly intervals or as required. Inspect electrical wiring/components at six yearly intervals or as required. Inspect columns for corrosion/damage at six yearly intervals.

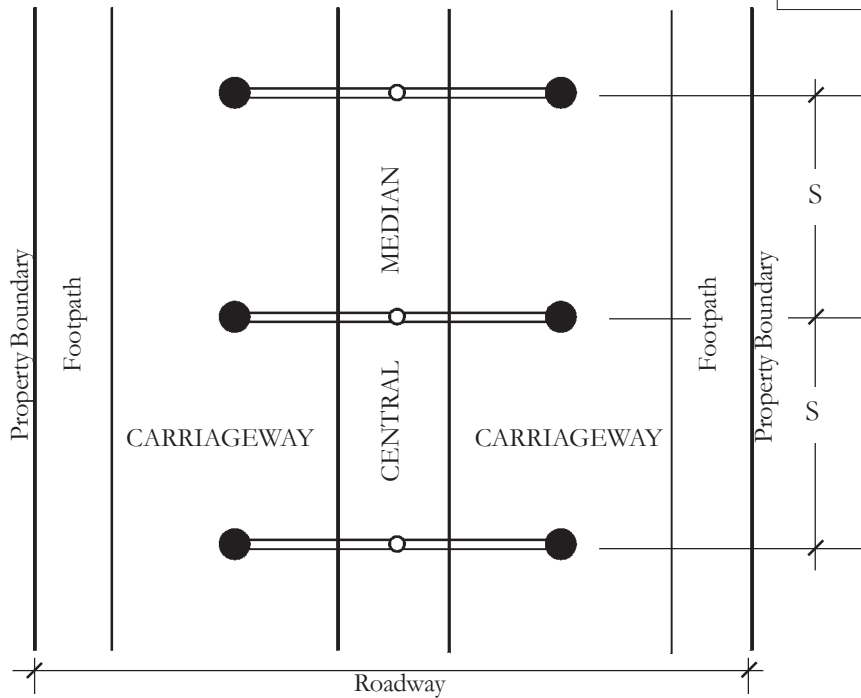


DESIGN NOTES

Lighting



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Overall height 10.5metres. Spacing (s) to be calculated in accordance with AS1158 Roadway Lighting Standards

SPACING OF LIGHTS IN STREETS

Lamp Type	Street Lighting Category Classification
250W MH	V1
150/250W MH	V3
100/150W MH	V5