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Ardee Public Lighting Scheme – Amenity & Railway Lands Outdoor Lighting Report

Design Approach

Amenity Lands

The external artificial lighting design within the redline area focuses mainly on the light the roadway, car parking spaces and plaza area around the proposed sports pavilion. Lights are mounted on 6m poles in all areas. The lighting of grass tracks was deemed unnecessary in Ireland and has been excluded from the lighting scheme.

In regard to the maintaining of the lights, the light fittings are from Philips and are readily available. Lights are designed be top mounted on 70mm diameter round poles. Poles to be galvanised steel.

It is proposed to install a new metered connection and mini-pillar to the amenity lands for power provision to the new proposed lighting. There are some existing overhead cables in parts the amenity lands, however the consideration of strip-out works involved has not been included as part of this submission.

The lighting scheme has been designed to following:

Roads and footpaths // BS 5489-1:2020, P2 (branch road & Cul-de-sac) 10 lux average, 2 lux minimum.

Footpaths // BS 5489-1:2020, P4 (Grid 5 Hale Street, Bridge & woods) 5 lux average, 1 lux minimum.

Railway Lands

The external artificial lighting design within the redline area focuses on lighting the flexible open space, and providing light for the existing walk ways which pass through the area from Tierney Street and the River walk whilst also providing light to the community garden allotments. Lights are mounted on 6m poles in all areas.

In regard to the maintaining of the lights, the light fittings are from Philips and are readily available. Lights are designed be top mounted on 70mm diameter round poles. Poles to be galvanised steel.

It is proposed to install a new metered connection and mini-pillar to the Railway lands for power provision to the new proposed lighting. There is some existing public lighting at the junction of Ardee river trail and the walkway from Tierney Street which could possibly be extended as part of the Railway land lighting scheme. There are some existing overhead cables in parts the Railway lands, however the consideration of strip-out works involved has not been included as part of this submission.

The lighting scheme has been designed to following:

Roads and footpaths // BS 5489-1:2020, P2 (branch road & Cul-de-sac) 10 lux average, 2 lux minimum.

Footpaths // BS 5489-1:2020, P4 (Grid 5 Hale Street, Bridge & woods) 5 lux average, 1 lux minimum.

Ecology Considerations

Amenity Lands

The lighting design takes into account the RSK Preliminary Ecological Appraisal Report.

There is a significant amount shrubbery and trees around the perimeter of the amenity lands on all sides. The landscape design included wildlife bridges on both sides of the amenity lands between the river Dee and the railway walk and it was necessary to keep these areas from excessive light spill. Any lights close to these perimeter areas will be fitted with louvres to block any light spill behind the lights where possible.

Railway Lands

The lighting design takes into account the RSK Preliminary Ecological Appraisal Report.

There were no significant ecological concerns for the railway lands to incorporate into the lighting design