

17 December 2018

Ms Mairi Henderson  
**McCutcheon Halley**  
Kreston House  
Arran Quay  
Dublin 7

T: 01 8044477

**Re: Proposed Strategic Housing Development at Oldtown, Celbridge, Co. Kildare**

Dear Ms Henderson,

We have prepared a lighting design on behalf of O’Flynn Construction Co. Unlimited Company for the proposed Strategic Housing Development at Oldtown, Celbridge. This scheme consists of 251 residential units, 1 creche and ancillary works as detailed in the description of the development detailed in the Planning & Architectural Statement.

We have designed this lighting scheme in accordance with the requirements of the local authority.

As such we have used 79 x Veelite Metro Streetlights 27w LED (51 x Street Optic S, 28 x Forward Throw Optic) mounted on 6m columns with a 5 degree tilt. The light levels are as follows:

- Road - 4.3 lux with a minimum of 0.8 lux. This complies with Class P4 of IS EN 13201 with S/P ratio of 1.4 applied (3.8 lux average, 0.8 lux minimum).
- Path – 5.0 lux with a minimum of 0.8 lux. This complies with Class P4 of IS EN 13201 with S/P ratio of 1.4 applied (3.8 lux average, 0.8 lux minimum).

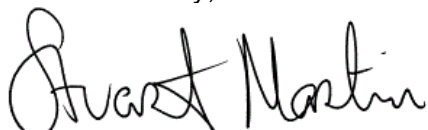
With regard to the main roads surrounding the development – Oldtown Mill Road & Shackleton Road, we have conducted a preliminary analysis and anticipate that the main roads will be adequately lit by the proposed design and the existing streetlighting in place. I would suggest that final details can be agreed with Kildare County Council, prior to development commencing.

Enclosed please find the following:

- A1 drawing at scale 1:500 – “19-101-SITE-LTG Ph1.1 Rev P1”
- A1 drawing at scale 1:500 – “19-101-SITE-LTG Ph1.1 Rev P2”
- Veelite specification sheet – “675-Metro Series”

I trust this is to your satisfaction, if you have any further queries please do not hesitate to contact me.

Yours sincerely,



for Johnston Reid & Associates,  
Consulting Engineers.