


| Quantity | Symbol | Type of Lighting Unit |
|---|---|---|
| 7 | | Proposed 6 metre Steel column with spigot mounted IGNIS 20 MPH 4.0_70_203_2168_2 (13w/2.17klm) lantern |
| 1 | | Existing 6 metre Concrete column– To remove |
| 1 | | Existing 6 metre Steel column– To remove |

Grid 1
Results – Horizontal Illuminance (Lux)
Eav= 3.94
Emin= 0.74
Emax= 9.24
Emin/Emax= 0.08
Emin/Eav= 0.19
Emax/Eav= 2.34

Luminaire Data
Luminaire A IGNIS mini - 20 LEDs, MPH, 4000K, 0203mA, Opt2 Lamp OSRAM SQUARE CRI70 SPR157 4000K N7 MF 0.76

Key
- Luminaire A Column
- Bean Aiming Target
- Photometric Centre

All Dimensions in metres

NOTES

1. Street lighting to be designed to the appropriate BS5489-1:2020 class.
2. The numbering system shown on this layout is for contract purposes only, with the permanent numeric system to be agreed with Kirklees Council Engineers.
3. Supplies to new lighting columns shall be taken directly from the distrid network operator (DNO). If an Independent Distribution Network Operator (IDNO) is used, then Kirklees Council to be given the name and address of any appointed IDNO. In the case of each new column this same information including emergency contact numbers etc. shall be available for viewing.
4. Only recognised lighting contractors shall be used for street lighting and illuminated sign and bollard installation works. Lighting contractor details must be provided to Kirklees Council prior to approval of the proposed lighting contractor.
5. Column erection and installation works shall comply with the current issue of the IET wiring regulations (requirements for electrical installations), and the current edition of the ILP code of practice for the erection of street lighting.
6. Ensure that any ducts necessary to facilitate low voltage cabling to the proposed street lighting units are of the correct Colour/diameter/depth/specification as required by the DNO/IDNO, and installed before jointers arrival on site.
7. All materials and equipment shall comply with Kirklees council specification. Any materials or equipment proposed by the contractor shall be submitted to Kirklees council for approval before any purchase agreement.
8. Lighting columns and signs are only to be installed on land adopted or to be adopted by Kirklees council, and shall be installed to the rear of the adoptable footway/service strip.
9. Lighting columns to be tubular steel, and protected against corrosion by hot dip galvanising inside and out and Bitumen coated root as per Kirklees council specification.
10. Lanterns to be spigot mounted with a colour temperature of 4000k (neutral white LED), have a pre-set dimming profile as per Kirklees Council specification and 20/20 LUX protocol.
11. The exact position of all apparatus and equipment shown on the drawing, and the door positions, shall be agreed with the Engineer prior to excavation.
12. No proposed street lighting column to be installed directly in front of any property driveways/windows.
13. Developers MUST ensure that the acceptable back edge (pin kerb) is installed on site before columns are called off.

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Ducting Requirements for connections to street lights (where required)

Please refer to the ENATS 12-23 & 24 regulations for specific ducting requirements. Ducting must be installed at correct depths as per NRAG 7 requirements.

Summary of Ducting Requirements

Please note that it is now mandatory for all electrical service ducting & road crossings to have **2.5mm thick Warning Tile Tape** installed above them to offer warning of the presence of the electrical cable below. Marker Tape is no longer adequate.

**The tile tape must be 150mm wide, clearly coloured and supplied with no sharp edges. The tile tape should be laminated with suitable identification complying with ENATS standard 12-23 and meet impact requirements of BS-3404. It should be installed 100mm above mains electric duct and 75mm above services electric duct.**

The Tile Tape can be purchased from a number of manufactures & building supply companies including Jewsons. The Heritage Code for this item is 6QEWY 49.
*The Tile tape MUST be embossed with the Northern Powergrid logo or it will be unsuitable.*

Ducts should be terminated as straight as possible. A one termination run and in one termination. Please ensure that service duct is free to any road crossings. *Please expose the road crossing in time for YE's visit. This will need to expose one duct per service.* Please ensure that draw cords are installed in the ducts and that the service duct means the back of the footpath.

**Electric service ducts UNDER FOOTPATHS**

Must be black 38mm diameter, at a depth of 450mm below the final surface level. Duct must be of rigid type UPVC or HDPE, smooth walled with a smooth inner surface. They must be indelibly and clearly marked with the legend "ELECTRIC CABLE DUCT".

**Electric service ducts UNDER ROADS**

Must be black 125mm diameter, at a depth of 640mm below the final surface level. Duct must be of rigid type UPVC or HDPE, with corrugated outer and smooth inner surface, and must be indelibly and clearly marked with the legend "ELECTRIC CABLE DUCT".

UNDER NO CIRCUMSTANCES MUST THE DUCT & TILE TAPE BE ENCASED IN CONCRETE!

Please seal electricity ducts after installation to prevent the ingress of water and dirt. Failure to do so may cause delays and extra costs. If you are in any doubt as to the requirements regarding ducting, please contact your Northern Powergrid Representative.

Materials

You must provide your own electricity service duct, duct sealing duct, warning tile tape and cabinets. The costs of these items has not been included in the price of your quotation. Service and Mains cable are provided and installed by Northern Powergrid.

- *Please note that in the event of a Site Manager changeover, this document MUST be passed on to the new Site Manager so that he/she is made aware of all the Developer's responsibilities.*
- *Should the new Site Manager wish to discuss these responsibilities, please contact your Northern Powergrid Representative to arrange a meeting.*

NOTE

Lighting column erections should only be called off once the adoptable back edge (pin kerb) has been installed on site and there are levels to work to.

The footway wearing course should not be laid until the lighting column/s have been erected and serviced.

REF. DATE REVISIONS

Kirklees COUNCIL

Streetscene & Housing
Flint Street, Fartown
Huddersfield, HD1 6LG

| | | |
|---|---|---|
| SECTION: Street lighting | | |
| DRAWN: JRD | CHECKED: JR | |
| SCALE: 1:500 | PROJECT NO.: S38 | DATE: June 2024 |

PROJECT
Plane Street
Primrose Hill
Huddersfield

TITLE
Proposed Highway lighting
BS5489–1:2020
Lighting class P5

DRAWING No. 6810

CAD No.