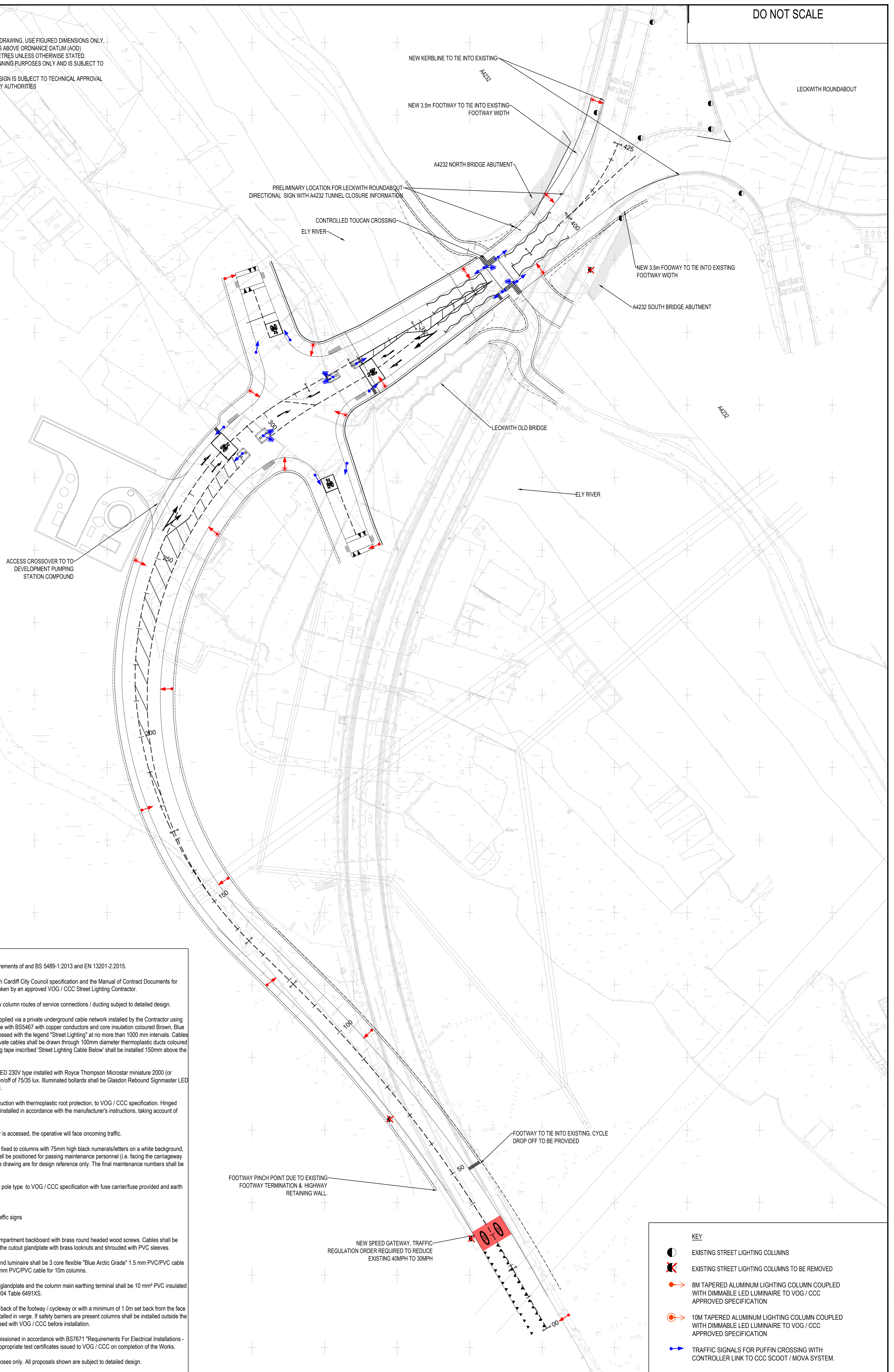


- NOTES**
- DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
  - ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (AOD).
  - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  - THIS DRAWING IS FOR PLANNING PURPOSES ONLY AND IS SUBJECT TO DETAILED DESIGN.
  - HIGHWAY GEOMETRY & DESIGN IS SUBJECT TO TECHNICAL APPROVAL OF THE ADOPTING HIGHWAY AUTHORITIES.



- Notes**
- The street lighting layout will comply with the requirements of and BS 5489-1:2013 and EN 13201-2:2015.
  - The street lighting installation shall comply fully with Cardiff City Council specification and the Manual of Contract Documents for Highway Works. All electrical work shall be undertaken by an approved VOG / CCC Street Lighting Contractor.
  - Direct DNO / IDNO supply to be provided to all new column routes of service connections / ducting subject to detailed design.
  - Lit traffic signs, DFS signs and bollards shall be supplied via a private underground cable network installed by the Contractor using 6mm<sup>2</sup> 3 core XLPE/SWA/PVC cables in accordance with BS5467 with copper conductors and core insulation coloured Brown, Blue and Green/Yellow. The cable sheath shall be embossed with the legend "Street Lighting" at no more than 1000 mm intervals. Cables shall be terminated by loop in/loop out method. Private cables shall be drawn through 100mm diameter thermoplastic ducts coloured orange with 5mm thick solid walls. A yellow warning tape inscribed 'Street Lighting Cable Below' shall be installed 150mm above the service ducts after partially back filling the trench.
  - Lit traffic signs shall be Glasdon Lumino City 750 LED 230V type installed with Royce Thompson Microstar miniature 2000 (or similar approved) photo-electric cell with a switch on/off of 75/35 lux. Illuminated bollards shall be Glasdon Rebound Signmaster LED 230V type complete with integral photo-electric cell.
  - Road lighting columns shall be of aluminium construction with thermoplastic root protection, to VOG / CCC specification. Hinged columns shall be 'Echalon' type. Columns shall be installed in accordance with the manufacturer's instructions, taking account of local ground conditions and wind factor.
  - Columns shall be installed such that when the door is accessed, the operative will face oncoming traffic.
  - Reflective adhesive identification numbers shall be fixed to columns with 75mm high black numerals/letters on a white background, located 2.4m above ground level. The numbers shall be positioned for passing maintenance personnel (i.e. facing the carriageway angled towards traffic flow). Numbers shown on the drawing are for design reference only. The final maintenance numbers shall be obtained from VOG / CCC Street Lighting.
  - Cutouts shall generally be of the secondary double pole type to VOG / CCC specification with fuse carrier/fuse provided and earth terminal for 3 core cables.
    - Type 1 Secondary isolator
    - Type 3 Twin-fuse for columns feeding lit traffic signs
    - Type 6a/bb Installed in lit traffic signs
  - All cutouts shall be secured to the column base compartment backboard with brass round headed wood screws. Cables shall be terminated with CET type cable glands secured to the cutout glandplate with brass locknuts and shrouded with PVC sleeves.
  - The phase and neutral wiring between the cutout and luminaire shall be 3 core flexible "Blue Arctic Grade" 1.5 mm PVC/PVC cable with copper conductors for 5-8m columns and 2.5 mm PVC/PVC cable for 10m columns.
  - The main protective conductor between the cutout glandplate and the column main earthing terminal shall be 10 mm<sup>2</sup> PVC insulated cable with copper conductors complying with BS6004 Table 6491XS.
  - Lighting columns shall generally be installed at the back of the footway / cycleway or with a minimum of 1.0m set back from the face of the column to the edge of carriageway when installed in verge. If safety barriers are present columns shall be installed outside the working width of the barrier. All locations to be agreed with VOG / CCC before installation.
  - The installation shall be installed, tested and commissioned in accordance with BS7671 "Requirements For Electrical Installations - IET Wiring Regulations Seventeenth Edition with appropriate test certificates issued to VOG / CCC on completion of the Works.
  - This drawing shall be used solely for planning purposes only. All proposals shown are subject to detailed design.

- KEY**
- EXISTING STREET LIGHTING COLUMNS
  - EXISTING STREET LIGHTING COLUMNS TO BE REMOVED
  - 8M TAPERED ALUMINUM LIGHTING COLUMN COUPLED WITH DIMMABLE LED LUMINAIRE TO VOG / CCC APPROVED SPECIFICATION
  - 10M TAPERED ALUMINUM LIGHTING COLUMN COUPLED WITH DIMMABLE LED LUMINAIRE TO VOG / CCC APPROVED SPECIFICATION
  - TRAFFIC SIGNALS FOR PUFFIN CROSSING WITH CONTROLLER LINK TO CCC SCOOT / MOVA SYSTEM.

DRAWING STATUS: **FOR PLANNING**

**wsp**

1 Capital Quarter  
Tyndall St  
Cardiff  
CF10 4BZ, UK

T+ 44 (0) 292 076 9200  
wsp.com

CLIENT: **PHILIP WORTHING**

ARCHITECT: **LOYN ARCHITECTS**

PROJECT: **LECKWITH QUAY**

TITLE: **B4267 LECKWITH ROAD HIGHWAY IMPROVEMENTS STREET LIGHTING & TRAFFIC SIGNALS**

SCALE @ A1: 1:500	CHECKED: SID	APPROVED: GW
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